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DAILY SURFACE WATER TEMPERATURES AND SALINITIES AT SHORE STATIONS

CALIFORNIA AND WASHINGTON COASTS

1945 - 1959

Including Monthly Means, Extremes, Ranges and Standard Deviations

(PRELIMINARY UNOFFICIAL REPORT)

October 28, 1958

Revised March 1, 1960

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* Station discontinued

INTRODUCTION

Daily surface temperature readings and salinity determinations for the period 1945-1957 are presented for four California shore stations: Scripps Pier, La Jolla; Balboa; Port Hueneme and Hopkins Marine Station, Pacific Grove. The data are a part of the collection which was initiated by Dr. George F. McEwen at Scripps Pier in 1916, Balboa in 1925, Port Hueneme in 1920 and Pacific Grove in 1920.

Salinity values were based on density determination by hydrometer up to July, 1954. Since that time, salinity has been determined directly by titration. Temperatures have been listed as reported by the observer, some in hundredths of degrees centigrade, others in tenths.

This collection also includes data collected at three U. S. Coast Guard stations: Point Arguello, North Farallon Island and Blunts Reef for the year 1957. Coast Guard personnel take the observations and send the salinity samples to Scripps Institution of Oceanography for salinity determinations by titration. Temperatures at these stations are listed as reported by the observer, either in tenths or hundredths degrees centigrade.

The U. S. Coast and Geodetic Survey sends to Scripps Institution each month daily temperature and density values from four tide stations: Neah Bay, Washington; Crescent City, Avila and Santa Monica, California. Their density values, obtained by hydrometer, have been converted to salinities and, together with the daily temperature readings, have been retabulated for inclusion in this collection for the years 1955-1957 for Neah Bay and Crescent City, and for 1956-1957 for Avila and Santa Monica. Temperatures for this group of stations have been converted from Fahrenheit readings in tenths of degrees to centigrade units in .05 hundredths degrees. The converted salinity values are listed in tenths parts per 1,000.

There has been no attempt to screen or eliminate observers' errors in these tabulations.

In addition to the daily values, there are tabulated the monthly and annual means, extremes, range and standard deviations of temperature and salinity.

The standard deviations of the daily temperature and salinity values which are presented here for 1955 were computed using the following formula:

$$\sigma = \sqrt{\frac{\Sigma x^2}{N} - \bar{x}^2} \qquad (1)$$

The calculations of σ by use of formula (1) is time consuming, even with automatic calculators, particularly for a group of data as large as the one presented here. Therefore, a study was made of two methods of estimating the standard deviation. These approximate methods are based on the relationships of the standard deviation to the range in a unit normal frequency distribution.

R. A. Fisher and F. Yates in "Statistical Tables for Biological, Agricultural and Medical Records," 4th edition, 1953, page 26 and Table XX describe the two methods and tabulate the appropriate factors necessary for the calculations in terms of unit standard deviations for both methods.

The first method which will be referred to as the standard deviation estimated from the range, or σ_{range}, is based on the following formula:

$$\sigma_{RANGE} \doteq \frac{(x_n - x_1)}{2\mu_1} \qquad (2)$$

The second method, which will be referred to as the standard deviation estimated from the rank, or σ_{rank}, is calculated from the following formula:

$$\sigma_{RANK} \doteq \frac{\frac{(x_n + x_{n-1})}{2} - \frac{(x_2 + x_1)}{2}}{2\left(\frac{\mu_1 + \mu_2}{2}\right)} \qquad (3)$$

where $x_1, x_2 \ldots x_{n-1}, x_n$ are values placed in ascending order from smallest to largest, and μ_1 and μ_2 are the mean deviations for unit normal distributions of the first and second largest members of appropriate sample sizes, taken from Table XX, Fisher and Yates.

The standard deviations were calculated for 1955 temperature and salinity data using the three methods. Table IA is the frequency distribution of the deviations $(\sigma - \sigma_{range})$ and Table IB is the frequency distribution of the deviations $(\sigma - \sigma_{rank})$ for the temperature values. Table IIA and B is the frequency distribution of the deviations for the salinity data. The deviations in Table II are tabulated in units of hundredths while those of Table I are in tenths. Table III summarizes the deviations in terms of percentages for both temperature and and salinity data.

These tables show that standard deviations estimated from formula (3) are in better agreement with the results computed from the standard formula (1) than are the values obtained using formula (2). Formula (3) minimizes the effect of single extreme values. However, both methods appear to give sufficiently accurate estimates of variability for many general uses; particularly since the daily values are available to those persons who feel the need for the standard values based on formula (1). Therefore, standard deviations in this collection, except for the year 1955, have been estimated using formula (3) based on rank.

TABLE I

FREQUENCY DISTRIBUTION

Temperature ° C.	A. (σ - σ Range)	Total
+.51-.60	//	2
+.41-.50		
+.31-.40	///	3
+.21-.30	//// //	7
+.11-.20	//// //// //// //// //// //// ///	38
+ 0-.10	//// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //	102
- 0-.10	//// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// /	101
-.11-.20	//// //// //// //// /	26
-.21-.30	////	6
-.31-.40	/	1
-.41-.50	//	2
-.51-.60	/	1
		289

B. (σ - σ Rank)

+.31-.40	//	2
+.21-.30	////	4
+.11-.20	//// //// //// //// /	21
+ 0-.10	//// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// //// ////

TABLE II

FREQUENCY DISTRIBUTION

Salinity °/oo	A. (σ — σ Range)	Total
+.07	/	1
+.02	//	2
+.01	𝍸 ////	9
0	𝍸 𝍸 𝍸 𝍸 𝍸	25
-.01	𝍸 𝍸 /	11
-.02	/	1
-.03	/	1
-.04	/	1
-.05	//	2
-.07	/	1
-.14	/	1
-.16	/	1
		56

B. (- Rank)

+.02		
+.01	𝍸 ////	9
0	𝍸 𝍸 𝍸 𝍸 𝍸 ////	29
-.01	𝍸 𝍸	10
-.02	//	2
-.03	///	3
-.04	/	1
-.05		
-.06		
-.07	//	2
		56

TABLE III

TEMPERATURE

$(\bar{\sigma}_{\text{Computed}} - \bar{\sigma}_{\text{Range}})$		$(\bar{\sigma}_{\text{Computed}} - \bar{\sigma}_{\text{Rank}})$	
$\pm$ .1° C.	70%	$\pm$ .1° C.	83%
$\pm$ .2° C.	91%	$\pm$ .2° C.	96%
$\pm$ .3° C.	96%	$\pm$ .3° C.	99%
$\pm$ .4° C.	98%	$\pm$ .4° C.	100%
$\pm$ .5° C.	99%		
$\pm$ .6° C.	100%		

SALINITY

$(\bar{\sigma}_{\text{Computed}} - \bar{\sigma}_{\text{Range}})$		$(\bar{\sigma}_{\text{Computed}} - \bar{\sigma}_{\text{Rank}})$	
$\pm$ .01 °/oo	80%	$\pm$ .01 °/oo	85%
$\pm$ .02 °/oo	85%	$\pm$ .02 °/oo	89%
$\pm$ .04 °/oo	89%	$\pm$ .04 °/oo	96%
$\pm$ .07 °/oo	96%	$\pm$ .07 °/oo	100%
$\pm$ .08 to -.16°/oo	100%		

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: NEAH BAY, WASH.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	8.35	7.80	6.65	7.20	8.35	8.70	11.10	12.80	10.00	9.45	10.00	7.20			
2		8.35	7.20	6.10	7.20	8.90	8.90	12.80	12.80	11.65	10.00	10.00	7.20			
3		8.35	7.80	6.10	8.35	8.70	8.40	13.35	13.35	11.65	9.45	10.00	7.20			
4		7.80	7.80	6.10	7.80	8.40	9.45	12.20	13.35		10.00	9.45	7.20			
5		7.20	7.80	6.10	7.80	8.70	9.45	12.20	12.80	11.10	8.70	8.35	7.20			
6		8.35	7.80	6.10	8.35	8.90	9.45	11.65	12.20	11.10	8.40	9.45	7.20			
7		8.35	7.80	6.10	7.80	8.90	10.00	11.65	10.55	8.90	8.90	9.45	7.20			
8		8.35	7.20	6.10	7.80	8.40	10.00	11.10	10.00	9.45	8.40	10.00	7.20			
9		7.80	7.20	6.10	7.80	8.90	10.00	10.00	9.45	10.00	11.10	10.00	7.80			
10		7.80	7.20	6.65	7.80	8.90	10.55	10.00	9.45	9.45	11.10	10.00	7.80			
11		7.80	7.20	6.10	10.55	8.90	9.45	10.00	10.00	9.45	11.10	8.35	7.80			
12		7.80	7.20	6.10	8.35	8.35	10.00	10.55	9.45	8.90	11.65	7.80	6.65			
13		7.80	7.20	6.10	8.35	8.90	10.00	10.55	9.45	9.45	11.65	6.10	6.65			
14		7.80	7.80	6.10	8.35	8.90	9.45	10.00	10.55	9.45	12.20	6.65	6.65			
15		7.20	7.20	6.65	8.35	9.45	8.90	10.00	10.55	9.45	10.55	6.65	6.10			
16		7.20	7.20	6.65	7.80	10.00	8.35	9.45	11.65	10.00	11.10	7.80	6.10			
17		7.80	7.20	6.65	8.35	10.00	8.40	9.45	11.65	10.00	10.55	6.10	4.45			
18		7.80	7.20	6.65	8.35	10.00	9.45	10.00	10.55	10.00	10.00	6.10	3.35			
19		7.80	7.20	6.65	8.35	10.00	8.90	10.55	10.55	9.45	9.45	6.10	3.90			
20		8.35	7.20	6.65	8.90	10.55	10.00	10.55	9.45	9.45	9.45	6.65	5.55			
21		7.80	7.20	6.65	8.90	10.00	10.00	11.10	9.45	10.00	9.45	6.65	5.55			
22		7.80	7.20	6.65	8.90	10.00	10.00	11.10	10.00	10.00	10.00	7.20	5.55			
23		7.80	7.20	6.65	8.90	10.00	10.00	10.55		9.45	10.00	6.10	6.65			
24		7.80	7.20	6.65	8.35	10.00	10.00	10.00	9.45	10.00	10.00	6.65	6.65			
25		7.80	7.20	6.65	8.35	9.45	10.00	10.55	9.45	10.00	10.00	6.10	6.10			
26		7.80	6.65	6.65	8.90	9.45	10.00	9.45	9.45	9.45	10.00		6.10			
27		7.80	5.55	6.65	8.90	9.45	9.45	9.45	10.00	8.90	10.00	6.65	6.10			
28		7.80		6.65	8.35	9.45	8.90	10.00	10.00	9.45	10.55	6.65	6.10			
29		7.80		7.20	8.35	9.45	8.90	10.55	10.55	9.45	10.55	7.20	6.65			
30		7.80		7.20	8.90	8.90	9.45	10.00	10.55	10.00	11.10	7.20	6.65			
31		7.80		7.20		9.45		10.55	10.00		10.55		6.10			
MEAN		7.87	7.27	6.49	8.35	9.32	9.57	10.66	10.65	9.85	10.21	7.77	6.41	8.70		
MAX.		8.35	7.80	7.20	10.55	10.55	10.55	13.35	13.35	11.65	12.20	10.00	7.80		13.35	
MIN.		7.20	5.55	6.10	7.20	8.35	8.35	9.45	9.45	8.90	8.90	6.10	3.35			3.35
RANGE		1.15	2.25	1.10	3.35	2.20	2.20	3.90	3.90	2.15	3.30	3.90	4.45			
STD.DEV.		.31	.48	.30	.69	.57	.45	.98	1.06	.76	.82	1.07	1.13			

SEA WATER SUMMARY: SALINITIES — STATION: NEAH BAY, WASHINGTON

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	29.3	30.8	32.0	29.3	31.4	32.1	30.6	28.6	32.0	33.2	29.9	29.7			
2		29.8	31.1	31.6	28.6	31.6	32.8	29.7	27.3	31.0	32.9	30.8	29.9			
3		30.2	30.8	31.4	29.0	31.9	32.5	30.2	28.5	31.8	32.8	30.3	30.2			
4		30.2	31.4	31.6	28.9	32.1	32.3	30.6	28.8		32.7	31.2	30.2			
5		30.2	30.8	31.9	29.1	31.1	32.4	31.4	29.7	32.1	32.8	29.4	30.6			
6		31.0	30.6	32.0	29.1	31.6	32.1	31.4	30.6	32.1	32.4	29.4	29.7			
7		31.0	30.3	31.8	29.9	31.4	31.9	31.9	32.0	32.5	32.8	29.4	29.4			
8		31.2	29.5	32.0	31.0	31.6	32.1	32.0	32.3	32.5	32.5	30.0	28.9			
9		30.8	29.8	32.0	30.6	31.6	32.4	32.4	32.5	32.0	32.7	28.9	28.8			
10		31.1	30.0	31.9	30.2	31.6	32.3	32.0	32.7	32.3	32.3	28.8	28.8			
11		30.8	30.3	31.8	30.4	31.4	32.7	32.1	32.4	32.6	32.1	29.1	29.0			
12		31.5	31.1	31.5	30.0	32.1	32.7	32.4	32.3	32.0	30.4	29.8	28.9			
13		31.0	31.1	32.0	30.0	31.6	32.4	32.4	31.6	32.0	30.4	30.7	28.8			
14		30.2	30.6	32.0	28.5	31.6	32.8	32.0	31.5		30.8	31.4	29.0			
15		31.4	29.8	31.8	28.2	32.1	32.0	32.1	31.5		30.4	32.1	29.4			
16		30.3	29.6	31.8	27.7	31.5	32.4	31.9	31.4		31.2	32.1	30.6			
17		30.3	29.8	31.8	29.0	32.0	32.7	32.3	31.6		32.0	32.3	29.5			
18		30.3	30.2	31.4	28.2	31.6	32.5	31.6	31.6		31.8	31.5	30.8			
19		30.3	30.3	31.5	28.4	31.4	32.0	31.8	32.1		31.9	31.9	30.6			
20		29.4	30.8	31.5	28.4	31.8	32.0	31.8	32.7		32.4	31.8	30.4			
21		29.8	30.8	31.9	28.4	31.6	32.4	31.8	32.7		32.4	31.5	30.4			
22		30.2	31.1	31.9	28.5	31.8	31.6	32.3	32.9		32.7	31.9	30.0			
23		29.9	31.4	31.9	27.2	31.2	21.6	32.1			32.7	31.2	29.8			
24		29.9	31.6	31.8	28.8	31.8	31.9	32.3	32.8	32.9	32.4	31.0	29.7			
25		29.9	31.4	32.0	29.0	32.5	31.1	32.0	32.5	33.0	32.5	31.4	29.5			
26		30.2	31.8	32.8	29.3	31.9	31.4	32.5	32.5	32.9	31.6		28.8			
27		30.3	32.0	32.4	29.7	31.8	31.8	32.4	31.4	33.6	31.4	30.2	29.5			
28		30.6		32.7	30.2	32.4	32.3	32.0	32.0	33.2	30.4	30.0	29.5			
29		31.2		32.4	30.8	32.4	32.5	31.6	32.3	33.2	30.2	29.7	29.9			
30		31.2		32.4	30.8	32.0	31.6	31.4	32.3	33.4	29.7	29.7	30.3			
31		31.0		31.6		32.3		31.0	32.1		29.9		29.9			
MEAN		30.5	30.7	31.9	29.2	31.8	32.2	31.7	31.5	32.5	31.8	30.6	29.7	31.2		
MAX.		31.5	32.0	32.8	31.0	32.5	32.8	32.5	32.9	33.6	33.2	32.3	30.8		33.6	
MIN.		29.3	29.5	31.4	27.2	31.1	31.1	29.7	27.3	31.0	29.7	28.8	28.8			27.2
RANGE		2.2	2.5	1.4	3.8	1.4	1.7	2.8	5.6	2.6	3.5	3.5	2.0			
STD.DEV.		.58	.68	.34	.96	.35	.42	.71	1.44	.63	1.02	1.06	.61			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: NEAH BAY, WASH.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	7.20	6.10	6.65	7.80	9.45	11.10	11.65		11.10	11.65	10.00	7.20			
2		7.20	6.10	6.65	7.80	9.45	10.55	10.55	10.55	10.55	11.10	10.55				
3		7.20	6.10	6.10	7.80	9.45	10.55	10.00	9.45	10.00	10.55	10.00	7.80			
4		6.65	6.10	6.10	7.80	9.45	10.55	10.00	11.10	10.55	10.00		6.10			
5		6.65	6.10	5.55	7.80	9.45	10.55	10.00	11.10	10.00		10.55				
6		6.65	6.65	5.00	7.20	9.45	10.55	10.55	12.20	10.00	10.55		4.45			
7		6.10	7.20	6.10	7.80	9.45	10.00	12.20	11.65	9.45		10.00	6.10			
8		6.65	7.20	6.10	7.80	10.00	10.00	10.55	12.20	10.00	11.10	10.00				
9		7.20	7.20	6.10	7.80	10.00	12.20	12.80	11.10	9.45	10.55					
10		7.80	7.20		8.35	8.35	12.20	11.65	10.55	10.55	10.55	10.55	7.80			
11		7.20	7.80	6.65	8.35	9.45	12.20	11.65	10.00	11.10	11.10	10.00	7.80			
12		7.20	7.20	6.10	8.35	9.45	12.20	11.10	11.10	10.00	11.65	10.00	7.20			
13		7.20	6.10	6.10	8.35	9.45	12.80	11.65		9.45	10.55	9.45	7.20			
14		7.20	6.10	6.65	8.35	10.55	12.80	11.65	10.00	10.55		9.45	7.80			
15		7.20	4.45	6.65	8.90	10.00	12.80	11.65	11.10	11.10	11.10	9.45	8.90			
16		7.20	4.45	6.65	8.35	10.55	13.35	10.00	10.55	11.10	11.10	9.45	7.80			
17		7.20		6.65	8.35	10.00	13.35	10.55	10.00	11.10	11.10	9.45	6.65			
18		7.20		7.20	8.35	10.55	13.35	11.65	11.10	11.10	11.10	7.20	8.35			
19		7.20		7.20	8.35	11.10	12.20	12.20	11.65	11.65		7.80				
20		7.80	6.10	6.10		9.45	11.65	11.10	12.20	11.65	11.10	6.65	8.35			
21		8.35	6.65	6.10	8.90	10.00	12.20	11.10	12.20	10.55		7.80				
22		8.35	6.65	6.65	8.35	10.55	12.20		12.20	10.00	11.10	7.80	7.80			
23		7.20	6.65	7.20	8.35	10.55	12.20	12.20	12.20	10.00	10.55	7.80				
24		7.20	6.65	6.10	8.35		12.80	12.20				7.20				
25		7.20	6.65	6.65	8.90	10.55	11.65	11.65	12.20		10.55					
26		6.65	6.65	7.20	8.90	10.55	10.55	12.20				7.20	7.80			
27		5.00	6.10	7.20	8.90		11.65		10.55	11.10	10.00	7.20	7.80			
28		6.65	6.10	7.20	8.90	11.10	11.10	12.80	10.00	11.65	10.00	7.80				
29		6.65	6.10	7.80	8.90	11.10	12.20	12.20	10.55	12.80	10.00	7.20				
30		6.65		7.80	9.45	11.65	11.65	11.10	10.00		9.45	7.20	6.65			
31		6.10		7.20		11.10		10.55	10.00		9.45		7.20			
MEAN		7.03	6.40	6.58	8.33	10.08	11.77	11.35	11.02	10.64	10.66	8.76	7.34	9.16		
MAX.		8.35	7.80	7.80	9.45	11.65	13.35	12.80	12.20	12.80	11.65	10.55	8.90		13.35	
MIN.		5.00	4.45	5.00	7.20	8.35	10.00	10.00	9.45	9.45	9.45	6.65	4.45			4.45
RANGE		3.35	3.35	2.80	2.25	3.30	3.35	2.80	2.75	3.35	2.20	3.90	4.45			
STD.DEV.		.76	.87	.69	.46	.68	.92	.77	.70	.79	.64	1.03	1.02			

SEA WATER SUMMARY: *Salinities* STATION: *Neah Bay, Wash.*

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	30.6	30.7	30.0	29.0	32.5	32.8	32.0		32.0	31.8	30.0				
2		30.3	30.7	29.8	29.0	32.5	32.7	31.9	32.0	32.3	31.6	30.0				
3		29.3	31.0	29.5	29.0	32.5	32.4	32.4	32.4	33.3	32.4	29.8				
4		28.2	31.2	29.5	29.0	32.5	32.5	32.1	32.7	32.9	31.9					
5		28.5	30.2	29.1	28.9	32.7	32.5	31.5	31.9	33.2		30.2				
6		28.2	29.8	29.1	29.7	32.5	32.4	31.2	31.8	33.2	32.7					
7		27.6	29.7	29.5	29.0	32.3	32.0	31.2	32.0	33.7		29.9				
8		28.0	29.7	29.3	30.2	32.5	32.1	32.0	32.5	34.1	32.4	30.0				
9		28.8	29.7	29.4	31.0	32.7	31.6	30.6	33.2	33.3	32.7					
10		28.5	29.9		31.6	31.8	32.0	31.5	33.4	34.1	32.0	29.7				
11		28.2	30.2	29.5	30.8	31.8	32.3	32.1	34.0	31.8	33.3	30.0				
12		28.4	30.3	30.2	31.1	31.8	25.8	32.9	33.6	32.7	31.9	29.9				
13		28.9	30.4	30.0	31.6	31.9	25.4	32.9		32.7	31.8	29.8				
14		29.1	30.7	30.3	31.4	32.1	26.0	32.7	34.2	32.7		29.7				
15		29.3	30.6	30.8	31.6	31.8	25.4	32.9	32.9	32.7	31.9	29.3				
16		28.5	30.8	30.8	31.6	31.9	25.2	32.7	33.7	32.3	31.5	29.3				
17		28.6		30.8	31.6	32.1	25.8	32.7	34.0	32.5	31.0	29.3				
18		28.9		30.8	31.4	32.1	26.9	32.8	33.6	32.5	31.4	29.0				
19		28.6		30.8	31.4	32.1	27.6	33.0	33.0	32.9		31.0				
20		28.5	31.2	31.0		32.9	29.1	33.3	32.9	32.5	29.5	30.7				
21		28.5	31.6	31.5	32.1	32.4	29.4	32.0	32.9	32.4		31.0				
22		28.5	31.2	31.1	32.4	32.7	29.7		33.0	32.7	29.4	30.8				
23		28.2	31.2	30.8	32.4	32.7	30.2	32.7	33.0	32.7	29.1	31.4				
24		28.8	31.0	30.8	32.4		30.6	32.5				31.4				
25		28.5	30.7	30.7	32.4	32.7	30.3	32.0	32.5		29.3					
26		28.2	30.8	29.7	32.4	32.7	30.7	32.4				31.6				
27		29.3	30.4	29.7	32.4		30.4		33.4	31.9	30.2	32.1				
28		28.4	30.2	28.6	32.7	32.8		33.3	34.0	31.9	30.0	32.0				
29		29.8	30.0	28.8	32.5	32.8		33.2	33.2	32.0	29.9	32.0				
30		30.7		28.9	32.5	32.7		33.3	33.2		30.0	31.8				
31		30.4		28.9		32.8		32.0	32.9		29.9					
MEAN		28.85	30.53	29.99	31.14	32.39	29.77	32.34	33.03	32.73	31.15	30.45		31.12		
MAX.		30.7	31.6	31.5	32.7	32.9	32.8	33.3	34.2	34.1	33.3	32.1			34.2	
MIN.		27.6	29.7	28.6	28.9	31.8	25.2	30.6	31.8	31.8	29.1	29.0				25.2
RANGE		3.1	1.9	2.9	3.8	1.1	7.6	2.7	2.4	2.3	4.2	3.1				
STD.DEV.		.69	.48	.74	1.00	.29	2.09	.66	.63	.64	1.10	.82				

SEA WATER SUMMARY: TEMPERATURES STATION: NEAH BAY WASHINGTON
DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	7.20	5.00	7.20	8.30	10.00		12.20	10.55		11.10					
2		7.20	4.45	7.20	8.60	9.45		11.65	10.55		13.90		10.00			
3		7.20	5.00		8.80	10.00	12.80	11.65	10.55	10.00	13.90		10.55			
4			5.00	7.20	8.60	10.00			10.55	10.55	12.80	11.65	10.55			
5		6.65	5.00	7.20	8.90			11.65	10.55	12.20	12.80	10.55				
6		6.10	5.00	7.20	8.90	10.00	12.20	10.00	12.20	11.10	11.10					
7		6.65	5.00	7.20	8.90	11.10		10.00	12.20		11.10					
8		6.10	5.00	7.20	8.90	10.00		10.55	12.20		11.10					
9		6.65	6.10	7.20	8.90	10.00		11.65	13.35	11.65						
10		6.65		7.20	8.90	10.00	11.10	10.00		12.20	11.10					
11		6.65		7.20	8.90	11.10	11.65	11.10		12.80			10.00			
12		6.65	6.10	7.20	8.30		11.10	11.10	13.35	12.20		10.55	9.45			
13		6.10	6.10	7.80			11.10		14.45	11.10		10.55				
14		5.55	6.65	7.20	7.80	11.10	11.65		15.00		11.65	11.10	9.45			
15		5.55	6.10	7.80	8.90	12.80	12.20	11.65	15.55	11.65	12.20	10.00				
16		5.00	6.66	7.80	8.90		12.20	11.10	15.55	11.65	12.80					
17		5.00		8.20	10.0	11.10	12.20	11.65		11.65	12.20					
18		5.00	6.65	8.20	10.0	11.10	12.20	12.20	14.45			11.10				
19		5.00	6.10	8.35	10.0	11.65	11.65		14.45	11.10		10.55				
20		5.00		8.20	10.0	11.10	12.20		13.35	11.65		10.00				
21		5.00	6.10	8.20	10.0	11.65	12.20		11.65	11.10	10.55	10.00	8.90			
22		5.00	6.10		10.0	13.35		12.20	11.65	11.10	10.00	10.00				
23		3.90		8.20	9.40	13.90	11.65	11.65		11.10	10.00	10.00				
24		4.45	5.55		10.0	13.90	11.65	12.20	12.20	10.00	10.55	10.00	8.90			
25			5.55	7.80	10.0		12.20	12.20		10.00	10.55	10.55				
26			6.10	7.80	10.0	13.35	11.65	12.20	10.55	10.00	10.55	10.55	8.90			
27			7.20	7.80	10.0	12.20	11.65	10.55	11.10	10.55		10.55	8.90			
28		4.45	7.20		10.0	12.80			11.10		11.10	10.55				
29		5.55		7.80	10.0	15.00		10.55	10.55	10.55	12.20		8.90			
30		5.55		7.80	10.0			11.10		10.55	12.20					
31		5.55		8.35		12.20		11.65			12.20					
MEAN		5.75	5.81	7.65	9.31	11.55	11.90	11.35	12.40	11.15	11.64	10.48	9.50	9.89		
MAX.		7.20	7.20	8.35	10.0	15.00	12.80	12.20	15.55	12.80	13.90	11.65	10.55		15.55	
MIN.		3.90	4.45	7.20	7.80	9.45	11.10	10.00	10.55	10.00	10.00	10.00	8.90			3.90
RANGE		3.30	2.75	1.15	2.20	5.55	1.70	2.20	5.00	2.80	3.90	1.65	1.65			
STD.DEV.		.85	.73	.32	.54	1.35	.43	.64	1.45	.73	1.14	.44	.62			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE STATION: NEAH BAY, WASHINGTON

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	29.7	31.8	30.4	30.0	30.7		31.8	32.3		32.3					
2		30.2	32.0	30.6	29.9	32.5		31.8	32.3		31.8		31.5			
3		30.4	31.9		29.9	31.9	30.6	31.6	32.5	32.7	31.9		31.4			
4			31.4	31.4	30.2	31.9			32.8	32.5	32.4	32.4	31.4			
5		30.2	30.8	31.6	29.9			31.6	32.8	32.1	32.3	31.6				
6		30.0	31.6	31.4	30.3	32.0	31.8	32.4	32.1	31.9	32.1					
7		31.2	30.8	31.4	30.4	32.0		32.1	32.1		32.1					
8		31.1	30.8	31.6	30.7	31.8		32.1	31.9		32.3					
9		30.0	31.9	31.6	31.4	31.8		32.9	32.0	31.5						
10		29.8		31.9	31.4	31.8	31.9	32.1		31.8	32.1					
11		29.8	32.0	32.1	31.5	32.4	32.3	32.3		32.0			30.8			
12		29.5	31.9	30.8	32.3		31.8	32.4	30.4	32.3		31.6	31.0			
13		29.8		29.0			31.9	32.0	30.4	32.5		31.8				
14		29.9	30.8	28.8	32.3	31.9	31.8	32.0	30.8		31.9	31.4	30.8			
15		30.4	31.9	29.1	30.7	32.8	31.8	32.0	30.7	32.5	31.6	31.4				
16		30.8	31.9	29.1	30.4		32.0	32.0	30.6	32.9	31.5					
17		30.6		29.0	30.3	32.3	32.0			32.7	31.5					
18		30.6	32.1	29.0	30.3	32.3	31.8		31.1			31.4				
19		30.8	32.0	29.3	30.3	32.3	31.8		31.0	32.9		31.1				
20		30.8		29.3	30.4	32.3	32.1		31.8	32.4		31.0				
21		30.8	32.0	29.0	30.3	32.1	32.1		31.5	32.4	31.5	31.2	30.0			
22		30.6	33.4		30.3	30.4		32.0	31.8	32.3	31.9	31.2				
23		31.0		29.3	30.4	28.4	31.9	31.8		32.5	32.1	31.4				
24		31.0	31.8		30.8	28.0	32.0	31.8	31.9	32.9	31.9	31.4	30.3			
25			31.5	30.3	30.7		31.8	31.9		33.0	32.1	31.1				
26			31.5	29.9	31.2	27.4	32.0	31.8	32.4	32.8	32.3	31.2	29.8			
27			30.8	29.7	31.2	30.6	31.8	31.6	32.4	32.4		31.4	29.9			
28		32.1	30.4		31.4	30.8			32.4		31.5	31.5				
29		31.5		31.2	30.7	31.2		31.4	32.8	32.7	30.8		30.0			
30		31.8		31.2	30.7			31.5		31.6	30.7					
31		32.3		30.0		31.1		31.6			30.8					
MEAN		30.62	31.61	30.30	30.70	31.40	31.95	32.01	31.78	32.40	31.80	31.42	30.63	31.38		
MAX.		32.3	33.4	32.1	32.3	32.8	32.3	32.9	32.8	33.0	32.4	32.4	31.5		33.4	
MIN.		29.5	30.4	28.8	29.9	27.4	30.6	31.4	30.4	31.5	30.7	31.0	29.8			27.4
RANGE		2.8	3.0	3.3	2.4	5.4	1.7	1.5	2.4	1.5	1.7	1.4	1.7			
STD.DEV.		.93	.63	.87	.66	1.43	.31	.99	.70	.41	.47	.34	.60			

SEA WATER SUMMARY: Temperatures Daily Surface STATION: Neah Bay, Wash.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958		8.90	10.55	10.00	11.10	12.20	10.55	11.10	11.65	12.20	11.95	9.45			
2			8.90	10.55	10.00	10.55	10.55	11.65	11.40	10.85	10.00		9.70			
3		8.90	9.45	10.55	10.00	11.10	10.55	11.10		11.10	10.00	11.65	9.45			
4			9.45	10.00	10.55	10.00	11.65	13.90	12.80	11.10		11.65	9.45			
5			8.90	9.45	10.55	10.00	11.40	12.20	12.20	11.65	11.10	11.10	9.15			
6		10.55	9.45	9.45		10.00	11.65	11.65	11.10		10.55	11.10				
7			9.45	9.45	10.55	10.00		12.20	11.65	11.40	10.00	11.10	8.60			
8			9.45		10.00	11.10	13.90	11.65	12.50	12.50	10.30		8.90			
9		6.65	9.45	9.45	10.00	11.65	13.90	13.35	13.35	10.55	10.00	11.10	8.90			
10		8.90	9.45	9.45	10.55		13.60	12.20		10.55	10.30	10.55	8.90			
11		8.90	9.45	9.45	10.55	10.55	13.35	12.80	15.00	11.10		10.85				
12		8.90	9.45	9.45		11.10	13.35	12.20	13.35	11.65	9.70	10.55	8.90			
13		8.90	9.45	9.45	11.10	10.55	13.35	12.20	14.15		9.45	10.00	8.90			
14		8.90	9.45	9.45	10.00	11.10	12.20	12.50	13.05	11.65	9.45	10.00	8.35			
15		8.90	8.90	8.90	10.00	11.10	12.20	12.80	12.20	11.65	9.70		8.35			
16		9.45	9.45	9.45	9.45	11.10	10.55	14.45		12.20	9.70	8.90	8.35			
17		9.45	9.45	8.90	9.45		11.10	11.65	10.85	11.95	9.15	8.90	9.70			
18		9.45	10.00	8.90	10.00	11.65	11.10	11.65	10.55	11.65		8.60	9.45			
19		8.90	10.00	9.45	9.45	10.55	11.10		10.85	12.20	10.00	8.90	8.90			
20		8.90	10.00	10.00	10.00	10.55	11.65	12.80	11.10	13.05	11.10	9.45				
21		8.90	10.00	10.00	10.00	10.55	12.80	12.80	11.65		11.10	10.00	9.15			
22		8.90	10.55	10.00	10.55	11.65	13.90	12.20	11.65	13.35	11.10		9.45			
23		9.45	10.55	10.00	10.55	13.35	14.45	13.35	11.95	12.80	10.55	9.45	9.15			
24		8.90	10.55	10.00	11.10	12.80	13.35	13.05		12.50	10.55	9.45	9.15			
25		9.45	10.55	10.00	11.10		13.90	13.35	11.95	12.80		8.90	8.90			
26		9.45	10.55	10.55	11.65	12.20	13.35	11.65	11.95	12.50	10.55	8.35	9.45			
27		8.90	10.55	11.10	10.55	12.80	13.35	12.20	11.95		11.10	8.35	9.15			
28		9.15	10.55	10.55	10.55	12.20	12.20	13.35	11.10	13.60	11.10	8.35				
29		8.90		10.00	11.10	12.50	11.10	12.20	12.20	11.95	10.00	8.35	9.45			
30		8.90		10.00	11.65	11.65	12.20	11.65	10.55	10.30	10.00	9.45	9.70			
31		8.90		10.00		11.95		11.95	10.85		10.55		9.70			
1-10 MEAN		8.75	9.28	9.88	10.24	10.61	12.16	12.04	12.01	11.26	10.49	11.28	9.17			
11-20 MEAN		9.06	9.56	9.34	10.00	10.92	12.00	12.56	12.34	11.90	9.78	9.57	8.86			
21-31 MEAN		9.07	10.48	10.20	10.88	12.16	13.06	12.52	11.58	12.48	10.66	8.96	9.32			
MON. MEAN		9.02	9.72	9.82	10.39	11.26	12.41	12.38	11.96	11.86	10.34	9.88	9.14	10.68		
MAX.		10.55	10.55	11.10	11.65	13.35	14.45	14.45	15.00	13.60	12.20	11.95	9.70		15.00	
MIN.		6.65	8.90	8.90	9.45	10.00	10.55	10.55	10.55	10.30	9.15	8.35	8.35			6.65
RANGE		3.90	1.65	2.20	2.20	3.35	3.90	3.90	4.45	3.30	3.05	3.60	1.35			
STD. DEV.		.64	.46	.52	.61	.86	1.00	.92	1.13	.87	.66	.98	.38			

SEA WATER SUMMARY: *Salinities* STATION: *Neah Bay, Wash.*

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958		29.4	28.6	29.0	31.4	31.9	31.5	31.1	32.3	32.3	31.2	30.8			
2			29.4	29.0	29.5	31.5	31.8	31.5	31.5	31.5	32.4		29.3			
3		30.4	30.2	30.0	30.0	31.5	31.2	31.6		31.9	32.4	30.3	29.9			
4			30.4	30.4	30.2	31.4	31.0	32.0	32.0	32.3		30.3	29.1			
5			31.1	29.9	30.2	31.5	30.2	31.9	32.1	31.8	31.8	30.4	29.9			
6		30.7	31.2	30.7		31.8	31.5	31.9	31.6		32.5	29.7				
7			30.2	30.6	31.0	31.6		32.1	31.8	32.0	32.1	30.2	30.4			
8			29.9		30.0	31.5	31.2	32.0	31.4	32.0	31.9		30.4			
9		29.5	29.9	30.2	30.3	31.6	31.4	32.3	31.4	32.3	31.4	30.2	30.3			
10		29.9	29.7	30.4	30.2		31.4	31.9		32.0	31.2	29.9	30.6			
11		29.9	29.9	30.4	30.7	31.5	31.2	31.5	31.8	31.4		29.7				
12		29.1	29.4	30.6		31.5	31.5	31.0	31.1	31.8	31.4	30.2	30.3			
13		30.0	30.2	31.5	30.7	31.8	31.2	31.1	31.5		32.1	30.3	30.6			
14		29.9	30.4	31.2	30.3	31.5	31.6	30.8	31.9	31.2	31.6	30.8	32.9			
15		29.3	30.2	31.1	30.6	31.8	31.1	30.7	31.1	31.4	31.4		30.8			
16		29.1	30.4	31.5	30.2	31.5	31.8	31.1		30.6	31.6	31.1	30.8			
17		29.1	29.9	31.1	30.7		31.8	30.7	32.1	31.2	31.8	31.1	31.4			
18		29.9	30.0	31.1	31.0	31.6	32.0	30.7	32.0	31.5		30.6	31.5			
19		29.9	29.5	31.2	30.7	31.5	31.5		32.5	31.2	30.8	30.6	32.1			
20		30.4	29.5	30.3	30.3	31.5	31.5	31.2	32.4	31.5	31.0	30.0				
21		30.7	29.5	30.3	30.0	31.2	31.1	31.6	32.5		31.2	30.0	29.9			
22		31.1	28.9	29.3	30.2	31.6	31.5	31.6	32.3	31.2	31.2		29.9			
23		30.4	28.4	28.8	30.2	31.1	31.0	31.8	32.3	30.7	31.0	29.9	30.2			
24		30.4	27.6	29.3	30.2	31.2	31.0	31.8		31.1	31.0	29.9	31.1			
25		29.9	27.7	29.3	30.2		31.1	31.6	32.3	31.5		29.9	30.8			
26		29.9	27.7	27.8	30.3	31.8	31.2	31.8	32.0	31.6	31.2	30.2	31.2			
27		29.1	28.0	27.8	30.4	31.8	31.5	32.3	31.2		31.5	31.1	30.6			
28		29.7	28.2	27.4	31.2	31.8	31.4	32.3	31.1	31.5	31.5	31.1				
29		29.4		28.8	31.0	31.6	31.5	31.9	31.6	31.8	31.4	31.4	30.7			
30		29.1		29.3	31.0	31.5	31.4	31.5	32.0	32.1	32.0	30.8	30.2			
31		29.7		29.0		31.5		31.9	32.0		31.5		30.6			
1-10 MEAN		30.12	30.14	29.98	30.04	31.52	31.29	31.87	31.61	32.01	32.06	30.28	30.08			
11-20 MEAN		29.66	29.94	31.00	30.58	31.58	31.52	30.98	31.82	31.31	31.46	30.49	31.30			
21-31 MEAN		29.94	28.35	28.83	30.41	31.51	31.27	31.83	31.93	31.44	31.35	30.48	30.52			
MON. MEAN		29.86	29.53	29.90	30.37	31.54	31.36	31.59	31.80	31.59	31.60	30.42	30.60	30.85		
MAX.		31.1	31.2	31.5	31.2	31.6	32.0	32.3	32.5	32.3	32.5	31.4	32.9		32.9	
MIN.		29.1	27.6	27.4	29.0	31.1	30.2	30.7	31.1	30.6	30.8	29.7	29.1			27.4
RANGE		2.0	3.6	4.1	2.2	.7	1.8	1.6	1.4	1.7	1.7	1.7	3.8			
STD. DEV.		.52	.97	1.06	.52	.18	.37	.44	.39	.47	.44	.45	.93			

SEA WATER SUMMARY: TEMPERATURES STATION: NEAH BAY, WASH.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	8.90	8.90			10.00	11.65	12.20			11.10	10.00	8.35			
2		7.80	8.35	8.05		10.55	12.20	12.20		12.80		8.90	8.40			
3		7.20	8.60	8.05	9.45		11.10	10.85		10.00	12.20	8.90	8.35			
4			8.35	8.35	8.60	11.10	10.30	12.20	12.20		9.45	8.35	7.80			
5		5.55	8.35	8.60	9.45	10.85	10.85	11.40			9.45	5.00				
6		5.30	7.80	8.60	8.90	11.40	11.40	11.65	13.35		8.90	8.35				
7		6.65		8.35	9.15	10.85		11.65		10.00	8.90	7.80	7.20			
8		7.50	7.80	8.05	8.90	11.10	11.65		11.65		8.90		7.20			
9		7.80	7.50	8.05	8.90		11.65				9.45	5.55	7.20			
10		7.80	7.80	7.80	9.45	10.55	11.65	10.55			9.70	5.00	7.20			
11			7.80	7.80	9.70	10.30	12.80	11.40	11.10	11.10		8.35	7.80			
12		8.35	7.80	7.80	9.45	11.10	13.05		10.55	11.10	10.00	7.80	7.80			
13		8.60	8.05	7.50	9.70	10.85	13.35	12.20	11.10	11.65	9.70					
14		8.05		7.80	8.90	10.00	13.90				10.00	5.55	8.35			
15		8.05	7.80	7.80	9.70	9.45	15.55	11.10		12.80	10.00		8.35			
16		8.05	7.50	8.35	9.45	9.70		12.80		12.80		5.00	8.35			
17		8.35	7.50	8.05	10.30			13.35		12.80	10.00	5.55	7.80			
18			7.50	8.35	9.45	10.55	15.30	12.20	11.10	12.50	10.00	6.95	7.80			
19		8.35	7.50	8.35		11.10	12.80	12.20		12.50	9.70	6.65	7.80			
20		8.35	8.05	7.80	10.30	11.10	13.35	10.55		12.80	10.00	7.80				
21		8.05	8.35		11.10	10.85			10.00	13.35	10.30	6.35	8.25			
22		8.05		8.05	9.70	11.10	10.85	11.65	9.45	14.15	11.10		7.80			
23		7.80	8.35	8.35	9.70	11.40	11.10	11.65	9.45	13.90	11.65	8.60	7.80			
24		8.05	8.35	8.05	9.45				10.55	13.35	12.20	8.90	7.50			
25			8.60	8.35			11.40	12.20	10.55	13.35		8.90				
26		8.60	8.60	8.90	9.45	10.00	10.85	11.65	9.45	13.35	12.20					
27		8.60	8.60	8.60	8.90	10.00	10.85		10.00		11.10	7.20				
28		8.60	8.60	8.35	8.90	11.10		11.65		13.05	11.65	8.35	7.80			
29		8.60			9.15	10.55	11.10	13.35	12.20		11.10		7.20			
30		8.35		8.35	9.45		13.90	15.00	11.65	12.80		8.35	7.80			
31				8.35		10.85		13.35	12.20	12.20	10.55		7.20			
1-10 MEAN		7.17	8.16	8.21	9.10	10.80	11.38	11.59	12.42	10.93	9.78	7.54	7.78			
11-20 MEAN		8.27	7.72	7.96	9.66	10.46	13.76	11.98	10.96	12.23	9.92	6.71	8.01			
21-31 MEAN		8.30	8.49	8.37	9.53	10.73	11.44	12.56	10.55	13.28	11.32	8.46	7.64			
MON. MEAN		7.90	8.10	8.17	9.44	10.66	12.19	12.04	10.97	12.49	10.36	7.53	7.81	9.80		
MAX.		8.90	8.90	8.90	11.10	11.40	15.55	15.00	13.35	14.15	12.20	10.00	8.90		15.55	
MIN.		5.30	7.50	7.50	8.60	9.45	10.30	10.55	9.45	10.10	8.90	5.00	7.20			5.00
RANGE		3.60	1.40	1.40	2.50	1.95	5.25	4.45	3.90	4.05	3.30	5.00	1.70			
STD. DEV.		.94	.36	.31	.55	.52	1.41	1.05	1.07	1.21	.97		.47			

SEA WATER SUMMARY: SALINITIES — STATION: NEAH BAY, WASH.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	30.6	31.4			30.3	31.8	31.8			30.7	30.7	29.4			
2		30.3	31.4	31.2		27.8	31.8	31.2		31.6		31.6	30.4			
3		30.8	32.1	31.0	28.6		31.5	31.8		32.1	31.2	31.4	30.6			
4			31.6	30.8	29.7	28.5	32.0	31.8	31.0		31.9	31.9	30.7			
5		31.5	31.6	30.8	29.1	28.0	31.8	31.4			31.6	31.8				
6		31.2	31.8	31.4	29.4	28.5	31.6	31.1	30.7		31.9	31.5				
7		31.9		31.9	29.7	28.5		31.5		31.1	31.6	32.1	30.7			
8		32.0	32.0	31.8	30.6	29.0	31.2		31.4		31.9		30.3			
9		32.0	32.4	32.0	31.0		31.0				31.8	31.8	30.3			
10		31.5	32.5	32.0	31.4	29.7	30.8	31.2			31.9	31.8	30.2			
11			31.8	32.3	31.1	30.3	28.6	31.4	31.5	32.0		32.4	29.8			
12		31.6	32.3	32.0	32.0	30.2	28.9		31.8	31.9	31.6	32.5	29.8			
13		31.4	31.5	32.0	32.1	30.7	28.6	31.6	31.8	31.8	31.9					
14		31.5		32.3	31.9	31.4	28.1				31.8	32.5	28.5			
15		31.5	31.0	32.3	32.1	31.4	27.8	31.5		31.4	31.6		28.1			
16		31.4	30.2	32.4	32.3	31.4		31.9		31.5		32.5	28.0			
17		31.6	30.7	32.0	31.9			32.0		31.1	31.4	32.3	28.0			
18			30.7	32.7	32.3	30.8	27.8	31.6	32.3	31.0	31.6	30.0	28.5			
19		31.6	30.6	32.1		30.7	29.9	32.1		30.7	31.4	31.1	28.8			
20		31.5	29.1	32.0	32.3	31.0	29.7	32.4		30.2	31.4	31.4				
21		31.8	29.0		32.4	31.0			31.9	29.9	31.5	31.4	29.6			
22		32.0		31.5	32.7	31.5	31.5	31.9	32.4	30.2	31.1		29.4			
23		31.0	31.1	31.6	31.4	31.4	31.6	31.6	32.3	30.2	30.7	30.6	30.6			
24		29.5	31.6	31.8	31.5				32.1	29.9	29.9	30.4	29.9			
25			30.6	31.6			31.5	31.8	[illegible]	29.9		29.1				
26		30.2	31.1	30.6	31.0	31.4	31.8	31.6	[illegible]	29.7	29.1					
27		29.7	31.4	30.8	31.4	31.6	31.5		[illegible]		29.0	29.8				
28		29.9	30.6	29.8	31.1	31.6		31.4		29.9	29.1	30.4	30.2			
29		30.4			31.0	31.8	31.5	31.5	31.5		29.3		30.2			
30		31.1		29.8	31.6		32.1	32.0	31.7	31.6		29.4	30.4			
31				29.5		32.0		31.9	31.6	30.4	30.2		30.4			
1-10 MEAN		31.31	31.87	31.43	29.94	28.79	31.50	31.48	31.03	31.60	31.61	31.62	31.32			
11-20 MEAN		31.51	30.88	32.21	32.00	30.88	28.68	31.81	31.85	31.29	31.59	31.84	28.69			
21-31 MEAN		30.62	30.77	30.78	31.57	31.54	31.64	31.71	31.97	30.19	29.99	30.16	30.01			
MON. MEAN		31.13	31.20	31.50	31.22	30.42	30.60	31.67	31.79	30.86	31.34	31.27	29.83	31.03		
MAX.		32.0	32.5	32.7	32.7	32.0	32.1	32.4	[illegible]	32.1	31.9	32.5	30.7		32.7	
MIN.		29.5	29.0	29.5	28.6	27.8	27.8	31.1	[illegible]	29.7	29.0	29.1	28.0			27.8
RANGE		2.5	3.5	3.2	[illegible]	4.2	4.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
STD DEV		.68	.97	.81	.05	1.15	1.23	.32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: CRESCENT CITY, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	10.00	10.00	8.35	10.00	10.55	11.65	11.65	12.80	13.90	12.20	11.10	10.00			
2		9.45	9.45	8.35	10.00	10.55	11.65	11.65		13.90			8.90			
3		10.00	10.00	8.35			11.65	11.65	12.80	13.90		11.10				
4			10.00			10.55			12.80	13.35	12.20	11.10	8.35			
5		9.45	10.00	8.90	10.00	11.10		11.65	12.20		11.65		8.35			
6		10.55		8.90	11.65	11.10	11.65			13.35	11.65	11.10				
7			10.00	9.45	11.10		11.65	12.20	12.80			11.10	8.35			
8		10.55		10.00	11.10				12.80		11.65		8.35			
9			10.00	10.00	11.10	11.10			12.80			11.10	8.35			
10		10.55			11.10	11.10	11.65	12.20			11.65		8.35			
11		10.00	10.00	10.00		11.10	11.65	12.20		13.90	11.65	10.55				
12				10.00			11.65			13.90		10.00	8.35			
13		10.00	10.55			11.10	11.65		12.80	13.35	11.65					
14			10.55	10.00	10.55		11.65					9.45	8.35			
15		10.00	11.10	10.00	11.10	11.10		12.20	12.20	12.80						
16		10.00		10.00					12.80		11.65	9.45				
17		10.00	11.10		11.10	11.10	11.65		12.80	12.20	11.65					
18				10.55	11.10		11.65	12.20	13.35	12.80	11.65	8.90	8.35			
19		10.00	10.55	10.00		11.65	11.65	12.20	13.35		11.65		8.35			
20			11.10		10.55	11.65			13.90	12.80		8.35	8.90			
21		9.45	11.10	10.00		11.65	11.65	12.20	13.90	12.80	11.65	8.35				
22		10.00			10.00	11.65		12.20			11.65		8.90			
23			11.10	10.00			11.65		13.90	12.80	11.65		8.35			
24		10.00		10.55				12.20	13.90	12.80		8.35	8.35			
25			10.55		10.00	11.65	11.65		13.90		11.65	8.35				
26		10.00	10.55				11.65	12.20	13.90	12.20	11.65	8.35	8.35			
27		10.00		10.55	10.55	11.65						9.45	8.35			
28		10.00		10.55		11.65	11.65	12.20	13.90	12.20	11.65					
29				10.55	10.55	11.65		12.20	13.90							
30		10.00		10.00	10.55			12.20		12.20	11.65	10.00				
31		10.00						12.80					7.80			
MEAN		10.00	10.43	9.78	10.67	11.24	11.65	12.11	13.21	13.06	11.71	9.79	8.49	11.01		
MAX.		10.55	11.10	10.55	11.65	11.65	11.65	12.80	13.90	13.90	12.20	11.10	10.00		13.90	
MIN.		9.45	9.45	8.35	10.00	10.55	11.65	11.65	12.20	12.20	11.65	8.35	7.80			7.80
RANGE		1.10	1.65	2.20	1.65	1.10	0.00	1.15	1.70	1.70	.55	2.75	2.20			
STD.DEV.		.93	.43	.65	.43	.34	—	.27	.51	.54	.17	.87	.43			

SEA WATER SUMMARY: Salinities Daily Surface

STATION: Crescent City, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	20.8	30.8	25.9	26.7	31.8	32.7	34.2	33.4	33.2	33.0	32.8	29.8			
2		20.9	30.4	26.1	27.4	32.1	32.8	34.6		32.9			29.3			
3		32.0	30.3	26.7			32.9	34.5	33.7	33.7		33.0				
4			30.3			33.7			33.4	33.3		33.2	29.3			
5		30.2	30.6	28.8	28.2	34.4		34.7	33.3		32.7		29.3			
6		32.4		29.5	29.4	34.4	33.3				32.4	32.8				
7			30.8	30.4	29.7		33.2	34.9	33.7			32.8	28.5			
8		32.1		31.8	29.7				33.7		32.4		28.2			
9			30.0	31.9	29.3	33.6			33.7			33.2	27.7			
10		32.4			29.3	33.0	33.2	34.6			31.4		27.4			
11		32.7	30.6	32.1		32.8	33.4	34.7		34.0	31.1	32.7				
12				31.4			33.2			33.4		32.4	27.4			
13		32.7	31.2			32.5	32.9	34.4	33.4	33.0	30.8					
14			31.2	32.1	29.9		33.0					32.3	27.2			
15		32.1	31.5	32.4	29.7	32.8		33.8	33.3	32.9						
16		32.1		33.2					33.4		30.8	32.3				
17		31.9	31.8		29.5	33.2	33.6		33.2	33.0	30.6					
18				33.7	29.5		33.4	33.6	33.3	33.6	30.6	31.9	26.5			
19		31.1	31.5	33.4		33.2	34.1	33.6	33.6		31.8		26.5			
20			31.8		29.7	33.6			33.6	33.7		31.6				
21		30.4	32.0	33.7		33.4	34.0	33.8	33.2	33.7	32.4	31.1				
22		30.3			29.8	33.2		33.8			32.7		23.4			
23			32.3	31.1			34.1		33.2	33.4	32.7		22.4			
24		30.0		28.9				33.3	33.4	33.4		31.1	22.1			
25			31.8		29.3	33.2	34.2		33.4		32.4	31.1				
26		31.4	31.4				34.2	33.0	32.9	33.0	32.4	30.8	22.1			
27		31.6		29.4	29.9	32.9						29.9	21.8			
28		31.6		30.2		33.2	34.0	33.3	33.2	33.4	32.7					
29					31.0			33.6	33.4							
30		31.4		26.4	31.2			33.6		33.4	32.9	29.8				
31		31.1						33.4					22.6			
MEAN		30.5	31.1	30.4	29.4	33.2	33.4	34.0	33.4	33.4	32.0	31.9	26.2	31.6		
MAX.		32.7	32.3	33.7	31.2	34.4	34.2	34.9	33.7	34.0	33.0	33.2	29.8		34.9	
MIN.		20.8	30.0	25.9	26.7	31.8	32.7	33.0	32.9	32.9	30.6	29.8	21.8			20.8
RANGE		11.9	2.3	7.8	4.5	2.6	1.5	1.9	.8	1.1	2.4	3.4	8.0			
STD.DEV.		3.57	.63	2.32	1.28	.62	.46	.51	.20	.30	.74	1.06	2.40			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: CRESCENT CITY, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	8.90		7.80	10.00		12.20	13.35		13.35	14.45	10.00	7.20			
2		8.90	9.45	8.35	10.00	10.00				13.90						
3		8.90	9.45	8.35		10.00		13.90			13.35		7.20			
4					10.00	10.55	10.55	13.90		13.90	13.35	10.00				
5		8.35	9.45	8.35			11.10						6.65			
6		8.35				10.55	14.45	13.90		12.80		11.10				
7		7.80	9.45	8.35				13.35			13.35	11.10	6.65			
8					10.55	10.55				15.00						
9										12.80	13.90	10.00	-			
10				8.35	10.55	10.00	14.45	14.45				10.00	7.80			
11		7.80	9.45	8.90	10.55	10.55	14.45	13.90		12.80	13.90					
12						10.55	13.90	13.35				10.00	8.90			
13		7.80	9.45	8.90			13.90	13.35		14.45	12.80		8.90			
14			9.45		10.55	11.10	13.90	15.00		15.00	13.90					
15		7.80		9.45	10.00					14.45			8.90			
16		7.80	8.90		10.00	17.20					13.35	10.00				
17		7.80	8.90	9.45	10.55		15.00	13.35					10.00			
18		7.80	8.90	10.00	10.55	15.00				13.35						
19				10.00			14.45				13.35	8.90				
20		8.35			10.00	15.55	14.45	14.45		15.00			8.90			
21		8.35		10.00	10.55			13.90			12.20	8.90				
22			7.80			13.35	14.45						8.90			
23				10.00		13.35	15.00			15.55	11.10		8.90			
24			7.20	10.00	10.00			13.35		15.00	10.00	8.35	8.90			
25		8.35	7.20	10.00	10.55	12.20	15.00	13.35								
26			7.20			11.65		15.00		15.00	8.90					
27		8.35			10.00	11.65		13.35				7.20	9.45			
28		8.90	7.20	10.00												
29					10.00	11.65	13.90			14.45	8.90		8.90			
30				10.60		11.10	13.35	14.45								
31		9.45						12.80			7.80					
AN		8.32	8.63	9.24	10.26	11.92	13.79	13.81		14.18	12.16	9.63	8.41	10.94		
		9.45	9.45	10.00	10.55	17.20	15.00	15.00		15.55	14.45	11.10	10.00		17.20	
		7.80	7.20	7.80	10.00	10.00	10.55	12.80		12.80	7.80	7.20	6.65			6.65
		1.65	2.25	2.20	.55	7.20	4.45	2.20		2.75	6.65	3.90	3.35			
		.43	.75	.61	.18	1.98	1.34	.60		.81	1.92	1.21	1.03			

SEA WATER SUMMARY: Salinities Daily Surface

STATION: Crescent City, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	22.7		29.8	31.6		31.9	33.6		31.2	33.6	27.4	32.7			
2		22.7	28.6	28.5	31.5	32.9				31.5						
3		22.5	29.1	28.8		33.2		34.0			33.2		32.7			
4					31.9	33.2	28.4	34.0		32.0	33.0	27.7				
5		21.0	29.9	28.0									32.3			
6		21.8				33.2	26.8	33.4		32.0		28.4				
7		21.8	30.2	27.4				33.0			33.3	28.8	31.6			
8					32.4	32.9				32.8					-	
9										32.1	32.9	28.5				
10				27.7	32.4	33.0	25.8	32.7				28.9	31.4			
11		19.7	31.0	28.9	32.7	33.2	25.8	32.1		31.9	32.7					
12						27.6	26.1	32.3				29.3	30.6			
13		19.5	31.2	29.9			26.7	32.3		32.8	32.4		30.6			
14			31.2		32.9	27.1	28.0	32.9		33.2	33.0					
15		21.8		30.8	32.9					32.9			30.4			
16		21.8	31.4		32.9	25.2					32.5	29.0				
17		22.1	31.9	30.8	32.8		29.1	32.5					30.6			
18		22.1		30.8	33.0	22.5				32.0						
19				31.1							32.8	29.3				
20		21.8			32.7	22.6	28.9	32.4		33.3			29.9			
21		21.8		31.1	33.0			32.3			32.0	30.2				
22			29.7			25.5	30.2						30.2			
23				31.8		30.7	31.2			34.4	31.5		30.4			
24			29.8	31.6	32.7			32.5		34.1	31.4	31.4	30.6			
25		22.6	30.2	31.6	32.9	33.7	32.7	32.8								
26			29.9			33.4		33.2		34.2	30.6					
27		23.1			32.9	33.7		32.8				32.7	31.0			
28		24.7	29.1	31.9												
29					32.7	31.6	32.9			33.6	30.4	32.3	30.6			
30				31.6		31.5	33.3	33.2								
31		28.4						32.1			27.4					
MEAN		22.3	30.2	30.1	32.6	30.4	29.2	32.8		32.8	32.0	29.5	31.0	30.3		
MAX.		28.4	31.9	31.9	33.0	33.7	33.3	34.0		34.4	33.6	32.7	32.7		34.4	
MIN.		19.5	28.6	27.4	31.5	22.5	25.8	32.1		31.2	27.4	27.4	29.9			19.5
RANGE		8.9	3.3	4.5	1.5	11.2	7.5	1.9		3.2	6.2	5.3	2.8			
STD.DEV.		2.19	.96	1.36	.47	3.46	2.44	.59		.97	1.50	1.25	.89			

SEA WATER SUMMARY: TEMPERATURES STATION: CRESCENT CITY, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	8.35	7.2	10.55	11.1	11.1		14.45	14.45	16.65	13.35	10.00	11.10			
2		8.35	7.2		11.1	11.6				16.65						
3				10.55				15.00			12.20	11.10				
4		8.90				12.2			14.45	16.10			11.10			
5			8.9	10.55	11.1			14.45	13.35		11.65					
6		8.90				12.2										
7			8.9	11.1				14.45	15.00	16.65	11.65	10.00	12.20			
8		8.35			11.6	12.8				16.10			11.10			
9			8.35	10.55				15.00	15.00	15.55	11.10	10.55				
10		8.35		10.55	12.2		14.7						11.10			
11			8.9			12.8			14.45	16.10		10.00				
12				10.00	12.2		14.4	14.45								
13		8.35	9.45	10.00		12.2			14.45				11.10			
14			9.45		11.1	12.8	14.4	14.45		16.10		10.00				
15		8.35		10.00					15.00		11.65		11.10			
16			9.45	8.9		12.8	14.4	14.45					12.20			
17		8.35	9.45	10.00	11.6				14.45	16.65	11.10	8.90				
18							14.4	15.00					11.10			
19				11.1	11.6	12.2			16.10	17.20		8.90				
20			9.45	11.1		12.2					11.65					
21		7.8			11.6			15.00		15.00			10.00			
22		7.8	10.0	11.65	12.2	12.8	15.0	15.00								
23			10.55						17.20		10.55	10.00				
24		7.2		11.1	11.6	12.8	15.0			15.00			10.00			
25			10.55	11.65				15.00	15.55							
26				12.2	11.6		15.0		16.10		10.55	12.20	10.55			
27		7.2	10.55			12.8										
28		6.65	11.65				14.4	15.00	16.10	13.90			10.55			
29				11.1							11.10	13.35				
30				11.1	11.6			15.55	17.20	13.90		12.20				
31		7.2									10.55		11.10			
MEAN		8.0	9.4	10.72	11.58	12.4	14.63	14.80	15.26	15.82	11.42	10.60	11.02	12.14		
MAX.		8.9	11.65	12.2	12.2	12.8	15.0	15.55	17.20	17.20	13.35	13.35	12.20		17.20	
MIN.		6.65	7.2	8.9	11.1	11.1	14.4	14.45	13.35	13.90	10.55	8.90	10.00			6.65
RANGE		2.25	4.45	3.3	1.1	1.7	.6	1.10	3.85	3.30	2.80	4.45	2.20			
STD.DEV		.66	1.28	.99	.38	.50	.25	.28	1.10	1.04	.81	1.41	.76			

SEA WATER SUMMARY: SALINITIES DAILY SURFACE STATION: CRESCENT CITY, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	30.8	30.3	27.3	21.7			34.9	35.4	32.8	32.1	30.6	31.8			
2		31.4	30.3		22.4					33.0						
3				27.6				35.4			31.2	31.0				
4		31.4							35.4	32.4			31.8			
5			31.4	25.8	22.7			34.9	34.6		31.1					
6		31.6														
7			30.8	25.4				34.4	35.6	32.3	31.4	31.6	31.8			
8		31.1			23.5					32.3			31.5			
9			30.3	23.9				34.2	35.3	31.8	31.4	32.1				
10		30.6		23.9	24.0		33.2						31.2			
11			30.2						35.1	32.1		31.9				
12				23.1	24.0		33.2	33.8								
13		30.3	29.4	23.4					35.6				31.0			
14			29.8		23.3		33.3	33.6		32.4		30.3				
15		30.0		23.1					35.0		31.8		28.9			
16			30.2	22.9			33.6	33.8					31.0			
17		31.1	31.2	23.7	24.2				34.4	32.8	31.4	28.6				
18							33.8	34.2					30.7			
19				24.6	25.1				34.5	33.7		28.1				
20		31.2	31.0	25.0							31.2					
21					25.5			34.5		34.5			30.0			
22		31.5	30.7	25.5	25.5		34.6	34.5								
23			28.6						32.9		29.9	28.0				
24		31.1		24.8			34.7			34.9			26.7			
25				24.2				35.0	32.0							
26			26.3	24.0			34.7		32.4		29.7	32.0	25.2			
27		30.8	26.5													
28		30.6	27.3				34.9	35.3	32.7	33.4			25.1			
29				21.4							29.9	32.3				
30				21.3				35.4	33.4	32.7		32.3				
31		31.1									30.2		25.1			
MEAN		30.97	29.64	24.26	23.81		34.00	34.56	34.29	32.94	30.94	30.73	29.48	30.51		
MAX.		31.6	31.4	27.6	25.5		34.9	35.4	35.6	34.9	32.1	32.3	31.8		35.6	
MIN.		30.0	26.3	21.3	21.7		33.2	33.6	32.0	31.8	29.7	28.0	25.1			21.3
RANGE		1.6	5.1	6.3	3.8		1.7	1.8	3.6	3.1	2.4	4.3	6.7			
STD.DEV.		.47	1.61	1.89	1.30		.66	.58	1.14	.94	.78	1.54	2.30			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE — STATION: CRESCENT CITY, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	11.10		11.65	10.00	13.90	13.90				12.20		11.10			
2										16.10	12.20	12.20	11.65			
3				12.20	9.45	13.90	14.45		16.65	15.55		12.20				
4			10.00						16.65		12.20		11.10			
5				11.65	9.45	14.45	13.90									
6		11.10	10.55							16.65		14.45	10.55			
7		11.10		10.55		12.20	15.55		16.65	17.20	11.65	14.45				
8					10.00						11.65		10.55			
9			10.00			13.35	15.55			17.20						
10		11.10	10.55	11.65					16.10			13.35	11.65			
11					11.10	13.90			16.65		11.10	12.80				
12		10.00	10.55			13.35	17.20		16.10	16.65			10.55			
13											11.65	12.80	10.55			
14			11.10	11.10		13.90	16.10			17.20	11.65					
15		12.20		11.10			17.20					11.65				
16		12.20	11.10		11.65	13.90			15.55	17.20	11.10		10.00			
17				11.65			17.20			17.20	10.55	10.55				
18					12.20	14.45			16.10							
19		11.65	11.65	11.65	12.20							10.55	10.00			
20						13.90			16.10	16.65						
21		11.65		11.65		13.90	16.10					10.55	10.00			
22			11.65		12.20				15.55		12.80					
23		11.10		11.65	11.65		17.20		15.55		12.20		10.00			
24			11.65						15.55	16.65		11.10				
25				12.20	11.65	12.80										
26		10.55	11.10				17.20				11.65	10.55	10.00			
27		10.00		12.20	11.65	13.90			16.65	13.35			10.00			
28						14.45	17.20				11.65					
29				11.10	12.20	13.90						11.10	10.55			
30		10.00					16.65		16.10	12.20	11.10					
31		11.10		10.00												
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		11.06	10.90	11.47	11.18	13.76	16.10		16.14	16.14	11.69	12.02	10.55	12.82		
MAX.		12.20	11.65	12.20	12.20	14.45	17.20		16.65	17.20	12.80	14.45	11.65		17.20	
MIN.		10.00	10.00	10.00	9.45	12.20	13.90		15.55	12.20	10.55	10.55	10.00			9.45
RANGE		2.20	1.65	2.20	2.75	2.25	3.30		1.10	5.00	2.25	3.90	1.65			
STD. DEV.		.76	.62	.64	.97	.64	1.13		.38	1.56	.56	1.34	.55			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Crescent City, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	24.6		24.7	22.1	26.9	32.4				33.7		32.8			
2										32.7	33.6	29.7	32.7			
3				25.5	21.4	26.9	31.8		32.0	32.9		28.1				
4			28.2						31.9		33.6		32.3			
5				26.3	21.4	26.4	31.6									
6		30.2	28.1							33.8		25.8	32.4			
7		30.4		26.0		28.6	28.8		32.0	34.2	33.4	26.3				
8					22.1						33.4		32.1			
9			26.4			30.8	28.8			34.1						
10		29.9	24.3	27.8					31.8			26.0	32.7			
11					22.4	31.9			32.0		33.4	26.1				
12		28.5	23.1			32.3	29.0		32.1	33.6			31.9			
13											33.4	26.4	32.0			
14			22.5	26.1		33.6	28.5			34.5	33.3					
15		27.6		26.1			29.1					27.7				
16		27.6	22.5		22.4	34.2			32.5	34.7	33.2		32.1			
17				26.3			29.3			34.7	33.0	28.9				
18					22.5	34.6			32.4							
19		28.5	23.9	26.3	22.5							29.9	32.4			
20						34.7			32.4	34.9						
21		28.8		26.0		34.7	29.5					30.4	32.7			
22			24.4		22.7				32.5		33.2					
23		28.2		25.2	22.6		30.6		32.3		33.0		32.1			
24			23.7							34.6		31.6				
25				25.0	23.1	35.1										
26		28.4	23.7				30.6				32.7	31.8	31.4			
27		28.0		24.3	23.9	35.4			33.0	34.9			30.8			
28						34.6	30.8				32.7					
29				23.3	24.7	33.6						32.9	30.7			
30		26.9					32.8		32.7	34.4	32.3					
31		26.5		22.7												
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		28.15	24.62	25.44	22.60	32.27	30.26		32.28	34.15	33.19	28.68	32.07	29.43		
MAX.		30.4	28.2	27.8	24.7	35.4	32.8		33.0	34.9	33.7	32.9	32.8		35.4	
MIN.		24.6	22.5	22.7	21.4	26.9	28.5		31.8	32.7	32.3	25.8	30.7			21.4
RANGE		5.8	5.7	5.1	3.3	8.5	4.3		1.2	2.2	1.4	7.1	2.1			
STD. DEV.		1.63	2.13	1.35	1.02	2.15	1.36		.35	.74	.38	2.22	.61			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: CRESCENT CITY, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	10.00	10.55	10.55	10.55	10.55	10.55	13.90	13.35	16.10	15.55	14.45	12.80			
2		8.35					10.55									
3			11.10	10.55	11.10	10.55			13.90	16.65			12.20			
4							11.10	13.35			14.45					
5		10.00			11.10					16.10			12.80			
6			10.55	10.55		11.10	11.10				15.00	14.45				
7		10.00			11.10			13.90		16.10		14.45				
8			10.55	11.10					14.45			14.45	12.20			
9		10.55				11.10	11.10			15.55	15.00					
10		10.55	10.00		11.10			13.90	13.90			14.45	10.55			
11				11.10												
12		10.55				11.10	11.10	13.35		15.55	15.55	14.45	10.00			
13					10.55											
14			9.45	10.55		11.10		13.35	14.45	15.55	16.10	13.90				
15		10.55			10.55					16.10			9.45			
16		11.10					11.65		15.55	16.65			9.45			
17			9.45	11.10		10.55			15.55				10.00			
18		11.10			10.55		11.65	12.80					10.55			
19			9.45	11.10		11.10			16.10	14.45	15.00	13.90	10.00			
20													9.70			
21		11.10	10.00	10.55	10.55	11.10		13.90		14.45		13.35	10.00			
22							12.20		16.10		15.00	12.20				
23		10.55	10.00					13.35					10.00			
24				10.55	10.00	10.55	13.35		16.65	13.90	13.90		9.45			
25		10.55										12.20	10.00			
26			10.00				12.80	13.35					9.45			
27					10.55	11.10			16.10	15.00	13.55					
28							12.20					12.20	9.45			
29		10.55		10.55				13.90	17.20	15.00			9.15			
30					10.55	10.55	13.35					12.20	8.60			
31				10.55							13.90		9.15			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		10.39	10.10	10.73	10.69	10.87	11.75	13.55	15.28	15.51	14.80	13.59	10.25	12.29		
MAX.		11.10	11.10	11.10	11.10	11.10	13.35	13.90	17.20	16.65	16.10	14.45	12.80		17.20	
MIN.		8.35	9.45	10.55	10.00	10.55	10.55	12.80	13.35	13.90	13.35	12.20	8.60			8.35
RANGE		2.75	1.65	.55	1.10	.55	2.80	1.10	3.85	2.75	2.75	2.25	4.20			
STD. DEV		.66	.52	.20	.30	.20	.99	.31	1.20	.85	.83	.89	1.18			

SEA WATER SUMMARY: SALINITIES STATION: CRESCENT CITY, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	30.6	24.2	26.8	27.3	32.4	32.7	33.7	34.9	33.0	32.5	33.8	34.0			
2		30.3					32.7									
3			24.8	27.7	28.4	32.4			34.9	34.0			33.6			
4								33.3			32.8					
5		28.8			29.0					34.0			34.4			
6			25.2	28.6		32.3	33.0				32.9	33.6				
7					32.5			33.7		34.0		33.6				
8			27.6	29.3								33.8	33.8			
9						32.4	33.6			34.1	32.7					
10		28.1	28.8		32.8			33.7	35.3			33.8	32.7			
11				32.1												
12		27.6				32.3	33.0	33.8		34.4	32.7	33.8	33.3			
13					32.4											
14			28.0			32.5			34.6	34.4	33.8	34.2				
15		26.3			32.4					34.1			32.8			
16		26.4					33.4		34.5	34.4			32.8			
17			26.1	32.5		32.7			34.2				32.7			
18		25.5			32.1		33.4	34.0					32.4			
19				31.5		33.2			33.7	32.3	33.7	33.6	32.7			
20													32.7			
21		25.4	23.9	30.2	32.9	32.8		34.9		32.0		33.6	32.8			
22							34.1		33.2		34.0	33.7				
23		25.0	23.9					34.4					32.7			
24					33.2	32.4	34.4		33.2	31.6	33.4		30.0			
25		24.4										33.8	30.6			
26			25.0				33.7	34.6					32.8			
27					32.7				32.5	32.3	33.0					
28							33.6					34.2	32.3			
29		23.7		27.6	32.4			35.4	33.7	32.4			32.4			
30						32.7	34.2					34.0	32.7			
31				27.3							33.8		32.3			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		26.84	25.25	29.26	31.51	32.55	33.48	34.15	34.06	33.36	33.21	33.81	32.69	31.23		
MAX.		31.6	28.8	32.5	33.2	33.2	34.4	35.4	35.3	34.4	34.0	34.2	34.4		35.4	
MIN.		23.7	23.9	26.8	27.3	32.3	32.7	33.3	32.5	31.6	32.5	33.6	30.0			23.7
RANGE		6.9	4.9	5.7	5.9	.9	1.7	2.1	2.8	2.8	1.5	.6	4.4			
STD. DEV.		2.33	1.77	2.07	1.89	.26	.58	.65	.85	.89	.49	.18	1.17			

SEA WATER SUMMARY: SURFACE TEMPERATURES

STATION: BLUNTS REEF LIGHTSHIP
CAPE MENDOCINO, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	11.20	10.60	9.40	9.40	9.10	10.40	9.60	9.60	9.80	10.40	9.80	9.60			
2		11.30	10.40	9.80	9.50	9.20	8.70	9.20	9.50	10.10	9.60	9.80	11.10			
3		11.50	10.30	10.40	9.50	9.00	9.70	9.40	9.40		9.40	9.90	10.00			
4		11.50	10.40	9.90	9.50	9.20	9.70	9.60	9.40		10.20	9.90	10.00			
5		11.40	10.30	9.80	9.40	9.10	10.40	9.40	10.60		9.50	9.90	10.00			
6		11.60	10.40	9.40	9.40	9.30	11.00	9.40	10.70		9.50	9.80	10.10			
7		11.60	10.50	9.30	9.50	9.60	9.90	9.20	9.80		9.70	9.90	9.60			
8		11.50	10.60	9.50	9.60	9.40	9.80	9.60	9.60		11.00	10.10	9.80			
9		11.40	10.60	9.70	9.60	9.50	10.50	9.80	9.70		11.00	10.10	10.00			
10		11.50	10.00	9.50	9.40	9.40	10.00	9.50	9.80	13.40	11.00	9.80	9.90			
11		11.70	9.00	9.60	9.30	9.50	9.40	9.20	10.30	13.40	11.00	9.70	9.80			
12		11.60	9.30	9.40	9.40	9.50	9.50	9.20	10.50	13.30	11.40	9.40	9.80			
13		11.70	9.20	9.50	9.60	9.60	9.30	9.00		12.90	11.10	9.50	10.00			
14		11.40	8.12	9.50	9.70	9.50	9.00	9.30		13.80	11.00	10.10	10.00			
15		11.50	8.50	9.60	9.30	9.40	9.00	9.10		14.00	11.50	9.90	10.00			
16		8.10	7.80	9.50	9.40	9.60	9.10	9.20		14.10	11.70	9.80	10.10			
17		8.20	7.60	9.60	8.80	9.60	9.00	9.30		13.10	11.50	9.90	9.80			
18		11.50	7.75	9.50	8.90	9.50	9.10	9.30	9.30	13.30	10.50	9.90	9.90			
19		11.20	8.22	9.50	9.20	9.60	11.00	9.30	9.50	14.20	11.10	9.80	10.10			
20		11.40	8.15	9.60	9.10	9.60	10.00	9.40	9.50	12.40	10.90	9.80	10.10			
21		11.50	9.25	9.50	8.90	9.60	9.20	9.50	9.70	9.20	9.60	9.90	10.10			
22		11.40	9.30	9.70	9.20	9.80	9.00	9.20	9.70	10.10	9.60	9.60	10.10			
23		11.00	8.10	9.60	9.20	11.20	9.10	9.20	10.60	10.10	10.00		10.10			
24		11.20	8.90	9.60	9.00	10.80	9.30	9.30	10.20		9.60		10.10			
25		10.70	8.70	9.40	9.10	10.50	9.40	9.30	9.80		9.80		10.10			
26		11.40	8.40	9.60	9.00	10.60	9.60	9.20	9.80	9.60	9.90	8.20	10.00			
27		11.10	8.70	9.40	9.20	8.90	8.80	9.30	9.70	10.20	9.80	8.70	10.00			
28		10.90	9.20	9.50	9.00	8.80	9.90	9.10	9.80	9.50	9.60	9.10	10.00			
29		10.50	9.60	9.40	9.20	8.70	9.10	9.30	9.90	9.10	9.90	9.10	10.00			
30		10.70		9.60	9.30	9.50	9.20	9.20	9.80	10.20	9.80	8.10	10.00			
31		10.30		9.50		10.80		9.30	9.90		9.70		9.50			
1-10 MEAN																
MEAN																
MEAN																
MEAN		11.08	9.23	9.57	9.28	9.59	9.57	9.31	9.85	11.70	10.33	9.61	9.99	9.92		
		11.70	10.60	10.40	9.70	11.20	11.00	9.80	10.70	14.20	11.70	10.10	11.10		14.20	
		8.10	7.60	9.30	8.80	8.70	8.70	9.00	9.30	9.10	9.40	8.10	9.50			7.60
		3.60	3.00	1.10	.90	2.5	2.3	.80	1.40	5.1	2.30	2.00	1.60			
		.96	.80	.22	.22	.61	.61	.18	.37	1.51	.58	.56	.28			

SEA WATER SUMMARY: TEMPERATURES STATION: BLUNTS REEF LIGHTSHIP

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	9.5	9.9	10.3	10.6	9.4	9.5	8.5	9.9	9.7	15.8	11.4	12.5			
2		9.6	9.6		10.4	9.5	10.0	9.0	9.9	10.0	16.2	11.2	12.3			
3		9.7	9.1		10.3		10.0	9.2	10.2	9.6	13.2	11.5	11.9			
4		9.3	9.3	10.4	10.2		9.8	8.0	10.3	9.9	12.8	11.9	11.8			
5		9.5	9.1	10.3	10.4			8.9	8.9	9.7	13.9	12.0	11.6			
6		9.6	9.5	10.4	10.3			9.3	9.8	9.8	12.8	13.3	12.2			
7		9.7	9.6	10.2	10.0			9.1	10.1	9.8	13.8	12.9	11.9			
8		9.6	9.7	10.3	10.2			9.2	12.0	10.5	13.2	12.1	12.6			
9		9.7	9.8	10.4	10.2			9.4	10.5	9.7	13.0	12.9	11.9			
10		9.5	9.6	10.3	10.0			9.4	10.5	10.8	13.8	13.4	11.6			
11		9.7	9.5	10.4	10.3			9.9	10.8	10.9	14.6	13.8	11.4			
12		9.7	9.6	10.4	10.3			7.7	10.7	11.6	14.8	13.4	11.2			
13		11.0	9.6	10.4	10.2			8.8	10.4	11.4	14.2	13.8	11.4			
14		10.5	9.7	10.1	10.1			9.5	10.5	11.4	14.4	14.0	10.9			
15		10.6	9.6	10.0	10.3			9.9	10.4	12.0	13.9	13.3	11.8			
16		10.5	9.7	9.8	9.8			9.5	9.8	11.8	13.2	13.2	12.2			
17		10.1	9.7	10.0	9.9			9.3	10.4	11.8	12.8	13.3	11.9			
18		9.9	9.7	10.0	10.2			9.5	10.8	11.8	14.0	13.4	11.9			
19		9.9	10.1	10.0	10.1		10.6	9.5	13.1	11.2	13.8	13.7	12.5			
20		9.8	10.1	10.0	10.2			10.2	12.2	11.9	11.6	13.4	12.7			
21		9.9	10.2	10.1	9.7		10.4	9.8	12.0	10.2	11.6	13.9	12.5			
22		10.1	10.0	10.2	10.4	10.1	10.0	9.6	12.0	11.8	11.4	13.7	12.3			
23		10.1	10.0	10.2		9.5	9.9	9.7	11.2	11.0	12.5	13.9	12.5			
24		9.6	10.0	10.2	9.4	10.0	9.4	9.9	12.1	12.2	11.6	13.5	12.8			
25		9.7	10.2	10.1	9.1		9.3	9.8	9.9	11.8	11.9	12.9	12.4			
26		9.7	10.4	10.3	9.1	9.5	10.2	9.8	9.3		11.4	12.5	12.5			
27		9.8	10.3	10.3	9.2	9.8		9.5	9.7	13.4	11.6	12.1	12.4			
28		9.5	10.4	10.5	9.4	10.0	10.1	9.6	9.9	13.5	11.4	12.5	12.4			
29		9.5		10.4	9.1	10.0	8.4	9.6	9.9	13.4	11.3	12.3	12.3			
30		9.6		10.6	9.5	10.0	8.4	9.7	10.6	14.8	10.3	12.1	12.5			
31		9.3		10.5		10.2		9.7	9.2		10.9		12.1			
MEAN		9.8	9.8	10.2	10.0	9.8	9.7	9.4	10.5	11.3	13.0	12.9	12.1	10.7		
MAX.		11.0	10.4	10.6	10.6	10.2	10.6	10.2	13.1	14.8	16.2	14.0	12.8		16.2	
MIN.		9.3	9.1	9.8	9.1	9.4	8.4	7.7	8.9	9.6	10.3	11.2	10.9			7.7
RANGE		1.7	1.3	.8	1.5	.8	2.2	2.5	4.2	5.2	5.9	2.8	1.9			
STD.DEV.		.41	.36	.18	.39	.26	.72	.60	.98	1.24	1.46	.72	.46			

SEA WATER SUMMARY: SALINITIES DAILY SURFACE STATION: BLUNTS REEF LIGHTSHIP

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	33.48	33.22	32.48	32.47	33.55	33.76	33.86	33.77	33.71	32.91	33.46	33.41			
2		33.58	33.46		32.84	33.53	33.78	33.86	33.80	33.72	32.85	33.56	33.42			
3		33.62	33.44		32.98	33.57	33.77	33.86	33.77	33.68	33.06	33.40	33.39			
4		33.55	33.44	32.41	33.01	33.71	32.71	33.82	33.83	33.60	32.20	33.39	33.04			
5		33.40	33.53	32.56	33.22	33.57		33.91	33.68	33.63	32.94	33.51	33.17			
6		33.62	33.53		33.37	33.76	33.44	33.84	33.59	33.63	33.08	33.49	33.17			
7		33.62	33.56	32.61	33.55		33.71	33.86	33.49	33.66	33.09	33.52	33.32			
8		33.57	33.51		32.78	33.40	33.51	33.86	33.68	33.64	33.28	33.21	33.34			
9		33.48	33.53	32.50	32.80	33.14	33.68	33.85	33.59	33.82	33.02	33.22	33.04			
10		33.56	33.53	32.83	33.04	33.29	33.69	33.84	33.60	33.67	32.96	32.98	32.84			
11		33.48	33.53	32.84	33.60	33.24	33.69	33.71	33.60	33.51	33.01	33.20	32.94			
12		33.17	33.49	32.84	33.51	33.24	33.68	33.86	33.57	33.60	33.11	33.16	33.03			
13		33.12	33.37	32.68	33.60	33.23	33.68	33.89	33.62	33.67	33.00	33.00	33.31			
14		33.01	33.37	32.68	33.10	32.94	33.49	33.56	33.69	33.71	33.03	33.22	33.34			
15		33.15	33.37		33.51	32.94	33.49			33.51	33.04	32.78	33.25			
16		33.22	33.46	32.67	33.35	32.94	33.48	33.60	33.52	33.17	33.26	32.74	33.22			
17		33.30	33.40	33.17	32.77	32.79	33.53	33.84	33.30	33.21	33.30	32.98	33.24			
18		33.51	33.40	32.90	32.89	32.64		33.69	33.42	33.19	33.13	33.33	33.30			
19		33.42	33.35	32.84	32.69	32.66	33.46	33.66	33.24		33.26	33.23	33.24			
20		33.96		31.56	33.07	32.82	33.26	33.73	33.36	33.49	33.33	33.26	33.40			
21		33.03	33.26	31.74	32.78	32.72	33.44	33.73	33.48	33.26	33.46	33.25	33.39			
22		32.60	33.30	32.48	32.75	31.51	33.37	33.78	33.47	33.64	32.39	33.32	33.33			
23		31.32	33.33	32.30		32.76	33.55	33.61	33.50	33.24	33.38	33.21	33.30			
24		32.51	33.04	32.07	33.24	33.04	33.64	33.69	33.66	33.43	33.32	33.31	33.17			
25		32.88	33.01	32.59	33.49	33.37	33.61	33.69	33.73	33.55	33.33	33.29	33.31			
26		33.20	33.01	31.85	33.66	33.34	33.62	33.75	33.68		33.30	33.32	33.18			
27		34.74		31.83	33.53	33.33	33.78	33.78	33.53	32.94	33.52	33.35	33.17			
28		33.86	32.66	32.00	33.59	33.73	33.78	33.78	33.71	33.15	33.44	33.48	33.10			
29		33.78		32.30	33.68	33.51	33.82	33.77	33.73	33.65	33.50	33.41	32.54			
30		33.60		32.68	33.49	33.58	33.90	33.79	33.73	33.19	33.39	33.43	32.92			
31		33.40		32.55		33.70		33.78	33.82		33.41		33.06			
MEAN		33.35	33.35	32.46	33.18	33.19	33.58	33.78	33.60	33.47	33.17	33.27	33.19	33.30		
MAX.		34.74	33.56	33.17	33.68	33.76	33.90	33.91	33.83	33.82	32.52	33.56	33.42		34.74	
MIN.		31.32	32.66	31.56	32.47	31.51	33.26	33.56	33.24	32.94	32.20	32.74	32.54			31.32
RANGE		3.42	.90	1.61	1.21	2.25	.64	.35	.59	.88	1.32	.82	.88			
STD.DEV.		.53	.20	.39	.30	.46	.15	.09	.15	.22	.27	.21	.20			

SEA WATER SUMMARY: TEMPERATURES STATION: BLUNTS REEF LIGHTSHIP

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	12.30	12.40	12.20	11.70	10.20	12.90	12.00	10.90	10.40	10.30	11.80	11.10			
2		12.30	12.50	11.70	11.30	9.90	13.00	12.80	11.30	11.00	10.20	11.90	10.80			
3		12.30	12.50	11.70	11.60	9.80	12.80	12.60	11.20	10.00	10.20	12.40	11.20			
4		12.10	11.90	11.70	11.60	9.20	12.90	12.00	12.00	10.20	10.30	12.60	11.00			
5		12.20	12.40	11.70	11.70	9.40	11.90	12.60	11.80	11.00	10.20	12.90	10.70			
6		12.00	12.10	10.60	11.60	9.70	12.50	12.40	11.00	11.20	10.30	12.50	10.50			
7		12.30	12.50	11.70	11.50	9.20	13.50	12.20	11.60	12.00	10.20	12.80	11.60			
8		12.30	12.70	10.60	11.60	9.60	13.50	11.60	10.90	12.20	11.40	12.50	11.90			
9		12.40	12.80	10.00	12.20	9.10	13.20	11.30	10.80	13.00	11.30	13.00	11.60			
10		12.30	12.30	11.10	12.40	9.40	14.50	9.80	10.50	12.50	11.60	11.90	11.30			
11		12.30	12.80	10.00	11.10	9.20	14.50	9.80	11.00	13.00	11.90	11.90	11.50			
12		12.20	12.90	10.00	12.50	9.00	13.40	9.50	10.90	13.20	11.50	12.00	11.20			
13		12.30	11.70	10.70	12.20	9.60	12.80	9.20	10.50	13.10	10.80	12.30	11.20			
14		12.40	12.20	14.20	11.50	9.80	13.50	9.50	10.70	12.80	11.20	12.10	11.10			
15		12.30	12.20	13.60	11.20	9.40	13.40	10.50	10.40	12.60	11.10	10.50	11.30			
16		11.70	12.40	13.70	11.30	8.70	11.40	9.20	10.40	13.30	11.00	9.90	11.30			
17		12.30	12.80	13.60	11.50	9.10	12.20	9.30	10.00	12.70	11.10	10.30	11.60			
18		12.20	12.20	13.80	12.10	10.20	12.40	10.40	10.40	11.60	10.90	11.30	12.00			
19		11.90	12.80	13.60	12.50	10.40	12.80	10.10	10.00	11.90	11.20	12.50	11.70			
20		11.80	12.60	12.80	12.20	10.80	12.20	10.10	10.30	10.60	11.00	12.50	12.30			
21		11.80	12.60	13.10	11.50	10.60	11.20	9.30	10.50	10.40	11.00	12.50	12.00			
22		12.40	12.20	11.70	11.20	10.20	13.20	9.90	10.00	10.80	11.40	12.20	11.30			
23		11.20	12.60	11.90	11.50	11.40	14.10	10.50	11.00	11.40	11.20	11.40	10.90			
24		11.00	12.80	11.90	10.30	13.20	15.80	11.10	11.00	10.10	11.40	12.40	11.70			
25		11.20	12.20	11.70	10.20	12.80	14.20	11.30	11.00	10.20	10.30	9.80	11.50			
26		11.30	11.80	11.00	10.40	13.40	13.40	11.40	10.90	10.10	11.90	10.70	11.90			
27		11.50	12.20	11.50	10.60	13.00	13.50	10.50	10.80	9.30	11.80	11.50	12.40			
28		11.30	11.10	11.70	10.70	13.50	12.80	10.60	10.70	9.20	11.30	10.90	10.90			
29		11.30		11.40	10.60	13.10	12.20	10.50	10.50	9.40	10.80	11.10	11.80			
30		11.40		11.10	10.80	13.60	11.80	10.80	10.70	9.90	11.40	9.90	11.90			
31		11.40		11.50		12.60		10.60	10.60		11.40		11.80			
1-10 MEAN		12.25	12.41	11.30	11.72	9.55	13.07	11.93	11.20	11.35	10.60	12.43	11.17			
11-20 MEAN		12.14	12.46	12.60	11.81	9.62	12.86	9.76	10.46	12.48	11.17	11.53	11.52			
21-31 MEAN		11.44	12.19	11.68	10.98	12.49	13.22	10.59	10.70	10.08	11.26	11.24	11.64			
MON. MEAN		11.92	12.36	11.85	11.44	10.62	13.05	10.75	10.78	11.30	11.02	11.73	11.45	11.52		
MAX.		12.40	12.90	14.20	12.50	13.60	15.80	12.80	12.00	13.30	11.90	13.00	12.40		15.80	
MIN.		11.00	11.10	10.00	10.20	8.70	11.20	9.20	10.00	9.20	10.20	9.80	10.50			8.70
RANGE		1.40	1.80	4.20	2.30	4.90	4.60	3.60	2.00	4.10	1.70	3.20	1.90			
STD. DEV.		.35	.40	1.08	.61	1.27	1.05	.95	.51	1.09	.46	.85	.47			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: BLUNTS REEF LIGHT SHIP

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	32.94	33.04	32.70	32.74	33.22	33.40	33.39	33.43	33.64	33.35	33.20	33.29			
2		33.12	33.16	31.62	32.72	33.40	33.44	33.34	33.46	33.62	33.33	33.39				
3		32.94	33.11	32.54	32.06	33.22	33.42	33.30	33.48	33.64	33.01	33.33	33.26			
4		32.94	32.99	32.77	32.26	33.75	33.33	33.37		33.73	32.97	33.24	33.30			
5		32.97	32.89	32.54	32.24	33.68	33.44	33.24	33.42	33.69	33.08	33.19	33.35			
6		33.16	33.04	32.56	31.97	33.84	33.40	33.22	33.49	33.62	33.04	33.16	33.37			
7		32.95	33.04	32.79	31.95	33.59	33.30	33.26	33.51	33.31	33.13	33.17	33.09			
8		33.01	32.90	32.78	32.18	33.80	33.29	33.46	33.53		33.17	33.21	33.13			
9		32.92	32.96	32.77	31.09	33.76	33.13	33.41	33.54	33.26	33.20	32.97	33.01			
10		32.95	32.81	32.59	31.74	33.94	33.06	33.53	33.49	33.35	33.13	33.22	32.94			
11		33.08	32.81		32.30	33.82	33.39	33.58	33.44	33.17	33.08	33.30	33.12			
12		32.91	33.23	32.79	32.07	33.87	33.22	33.65	33.51	33.24	33.24	33.24	33.12			
13		32.96	32.05	32.90	31.69	33.57	33.18	33.62	33.62	33.35	33.48	33.24	33.11			
14		32.84	33.05	32.90	32.32	33.59	33.30	33.64		33.33	33.35	33.31	33.22			
15		32.90	33.12	32.95	32.97	33.62	33.52	33.60	33.64	33.28	33.40	33.30	32.84			
16		32.69	33.09	32.90	32.63	33.87	33.36	33.77	33.66	33.37	33.43	33.44	32.98			
17		32.84	33.08	32.95	32.50	33.48	33.30	33.58	33.66	33.36	33.48	33.29	33.02			
18		32.86	32.55	32.95	31.69	33.46	33.29	33.64	33.63	33.42	33.52	33.08	33.22			
19		32.87	32.40	32.95	32.33	33.40	33.28	33.64	33.72	33.40	33.24	32.93	33.13			
20		32.94	32.38	33.28	30.86	33.42	33.36	33.65	33.69	33.40	33.42	32.87	32.99			
21		32.96	32.38	32.93	32.56	33.49	33.45	33.57	33.62	33.57	33.47	33.04	33.01			
22		32.94	31.73	32.77	32.94	33.41	32.73	33.48	33.62	33.58	33.48	33.12	33.01			
23		33.07	31.72	32.91	33.08	32.66	32.70	33.54	33.68	33.55	33.39	33.30	33.03			
24		32.87	31.74	32.92	32.79	32.88	32.77	33.50	33.55	33.68	33.42	33.57	32.97			
25		32.80	31.71	33.00	32.94	32.78	32.84	33.55	33.59	33.60	33.58	33.47	32.99			
26		32.79	31.73	32.90	32.84	32.79	32.87	33.53	33.63	33.64	33.20	33.30	32.97			
27		33.10	31.80	32.83	32.93	32.66	32.87	33.40		33.71	33.24	33.33	33.00			
28		32.83	31.82	32.81	32.97	32.68	33.13	33.44		33.51	33.25	33.28	32.99			
29		32.83		32.84	32.83	32.54	33.37	33.29	33.62	33.55	33.51	33.22	32.99			
30		32.83		32.81	33.07	32.43	33.44	33.30		33.44	33.44	33.25	32.99			
31		33.10		32.72		32.72		33.38	33.64		33.44		32.95			
1-10 MEAN		32.99	32.99	32.57	32.10	33.62	33.32	33.52	33.48	33.54	33.14	33.21	33.19			
11-20 MEAN		32.89	32.78	32.95	32.14	33.61	33.32	33.64	33.62	33.33	33.36	33.20	33.08			
21-31 MEAN		32.92	31.83	32.86	32.90	32.82	33.02	33.45	33.62	33.59	33.40	33.29	32.99			
MON. MEAN		32.93	32.58	32.79	32.38	33.33	33.22	33.48	33.57	33.48	33.30	33.23	33.08	33.11		
MAX.		33.16	33.23	33.28	33.08	33.94	33.52	33.77	33.72	33.77	33.58	33.57	33.37		33.94	
MIN.		32.69	31.71	31.62	30.86	32.43	32.70	33.22	33.42	33.17	32.97	32.87	32.84			30.86
RANGE		.47	1.52	1.66	2.22	1.51	.82	.55	.30	.60	.61	.70	.53			
STD. DEV.		.11	.41	.29	.57	.37	.21	.13	.08	.15	.15	.17	.13			

SEA WATER SUMMARY: TEMPERATURES STATION: BLUNTS REEF LIGHTSHIP, SAMOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	11.6	11.0	10.9	10.9	8.6	10.1	11.1			11.1	10.6	12.8			
2		11.9	11.6	10.6	10.2	8.2	10.9	10.5			11.1	10.7	12.4			
3		12.2	11.8	10.6	10.0	9.2	10.3	10.0			11.4	10.6	10.1			
4		11.9	11.5	10.8	10.1	8.4	9.6	9.8			11.4	10.6	11.6			
5		12.1	11.6	10.5	9.9	9.5	9.5	10.1			11.4	10.7	10.3			
6		12.7	12.0	10.3	9.1	9.5	10.2	10.1			11.3	10.0	11.7			
7			9.4	10.1	8.9	9.5	9.8	10.7			11.4	10.4	11.2			
8			10.5	10.0	11.5	9.7	10.2	10.1			11.4	10.9	12.1			
9			11.1	10.0	9.4	9.0	9.8	10.0			11.4	10.3	10.9			
10		11.4	10.0	9.8	9.5	9.3	9.8	10.0			12.2	10.4	10.8			
11		12.5	10.5	10.0	9.5	9.5	9.9	9.8			12.2	10.0	11.9			
12		11.4	10.9	11.1	8.9	9.2	9.8	9.6			12.2	10.4	11.4			
13		11.6	9.5	11.0	9.8	9.3	9.7	9.7			12.1	11.1	12.0			
14		11.9	10.6	10.5	8.4	9.5	9.8	9.6			12.2	11.0	10.0			
15		11.7	10.7	10.5	7.9	9.6	9.9	9.0			12.2	11.0	10.9			
16		12.2	10.6	10.0	8.4	9.6	10.1	8.5			12.1	11.0	10.7			
17		12.1	11.1	10.0	8.0	9.4	10.3	9.8			12.2	11.0	10.1			
18		12.1	11.4	9.0	8.6	9.6	10.2	9.6			12.1	11.6	10.2			
19		11.7	11.1	10.0	8.9	10.0	10.1	9.6			10.5	11.9	10.2			
20		11.1	10.3	10.0	8.0	9.8	10.0	10.5			10.6	12.1	10.1			
21		11.0	10.3	10.0	8.2	9.7	10.0	10.5			10.5	12.5	10.2			
22		11.4	10.9	9.0	10.0	9.6	10.0	11.5			10.6	12.3	10.2			
23		11.3	11.1	9.5	9.4	10.1	10.1	11.5		11.3	10.6	12.2	10.4			
24		11.8	10.9	10.2	8.4	9.7	10.0	11.7		11.3	10.3	11.4	10.2			
25		12.0	10.8	10.5	8.2	9.9	10.0	10.8		11.3	10.4	11.5	10.1			
26		11.9	10.3	9.6	9.4	10.2	10.1	11.7		11.4	10.5	11.3	10.5			
27		12.2	10.6	9.5	9.4	11.1	10.1			11.2	10.8	11.4	10.3			
28		11.9	10.4	9.9	8.5	11.4	10.2			11.2	10.8	11.3	10.5			
29		11.8		10.1	8.5	11.8	9.9			11.1	10.9	11.3	10.4			
30		12.1		10.2	8.9	12.5	9.8				10.6	13.0	10.8			
31		11.2		10.3		11.7					10.7		10.5			
1-10 MEAN		11.97	11.05	10.36	9.95	9.09	10.02	10.24			11.41	10.55	11.39			
11-20 MEAN		11.83	10.67	10.21	8.64	9.55	9.98	9.57			11.84	11.11	10.25			
21-31 MEAN		11.69	10.66	9.89	8.89	10.70	10.02	11.28			10.61	11.82	10.37			
MON. MEAN		11.81	10.80	10.14	9.16	9.81	10.01	10.22			11.26	11.16	10.82			
MAX.		12.7	12.0	11.1	11.5	12.5	10.9	11.7			12.2	13.0	12.8			
MIN.		11.0	9.4	9.0	7.9	8.2	9.5	8.5			10.3	10.0	10.0			
RANGE		1.7	2.6	2.1	3.6	4.3	1.4	3.2			1.9	3.0	2.8			
STD. DEV		.43	.68	.56	.89	1.04	.29	.84			.50	.75	.69			

NO THERMOMETER

SEA WATER SUMMARY: SALINITIES DAILY SURFACE

STATION: BLUNTS REEF LIGHTSHIP, SAMOA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	33.04	32.21	32.61	31.28	33.48	33.77	33.46	33.29	33.62	33.68		32.91			
2		33.07	32.10	32.61	31.64	33.60	33.71	33.48	33.44	33.62	33.93		33.19			
3		33.03	32.54	33.10	31.89	33.51	33.75	33.66	33.44	33.62	33.88	33.62	33.17			
4		32.94	32.70	32.97	31.69	33.71	33.70	33.78	33.58	33.78	33.74	33.30	33.38			
5		32.99	32.78	32.81	33.28	33.42	33.77	33.69	33.58	33.71	33.78	33.55	33.48			
6		32.96	33.15	32.81	32.92	33.43	33.75	33.68	33.60	33.57	33.66		33.26			
7			33.60	33.19	33.15	33.51	33.76	33.68	33.64	33.64	33.66		33.10			
8			33.40	33.30	32.83	33.35	33.69	33.87	33.64	33.61	33.62	33.89	32.99			
9			33.42	33.20	33.64	33.49	33.61	33.74	33.57	33.46	33.54	34.04	33.29			
10		33.03	32.97	33.32	33.37	33.84	33.37	33.85	33.[illegible]	33.45	33.48		33.12			
11		33.01	33.46	33.38	33.48	33.78	33.36	33.88	33.[illegible]	33.53	33.57	34.04	33.12			
12		32.23	33.41	33.48	33.46	33.71	32.66	33.82	33.[illegible]	33.70	33.55	33.67	33.12			
13		32.86	33.40	33.61	33.64	33.12	33.05	33.83	33.[illegible]	33.47	33.57	33.60	33.07			
14		32.86	33.27	33.58	33.79	33.30	33.23	33.86	33.[illegible]	33.26	33.61	33.78	33.19			
15		32.83	32.94	33.48	33.75	33.66	33.49	33.86	33.[illegible]	33.64	33.66	33.72	33.21			
16		33.12	32.94	33.49	33.68	33.77	32.91	33.95	33.[illegible]	33.48	33.69	33.53	33.22			
17		32.88	32.88	33.35	33.80	32.79	32.74	33.71	33.55	33.47	33.51	33.20	33.51			
18		33.04	32.96	33.49	33.82	33.35	32.93	33.48	33.[illegible]	32.82	33.30	33.20	33.56			
19		32.95	32.75	33.44	32.86	33.58	32.93	33.50	33.[illegible]	33.14	33.13	33.09	33.25			
20		33.13	32.74	33.56	33.86	33.53	33.57	33.51	33.[illegible]	32.84	33.64	33.17	33.35			
21		32.92	32.18	33.06	33.84	33.84	33.48	33.61	33.[illegible]	32.94	33.19	33.04	33.30			
22		32.92	32.51	32.83	34.02	33.84	33.40	33.28	33.[illegible]	33.21	33.38	33.10	33.23			
23		32.84	32.51	32.69	33.97	33.58	33.45	33.26	33.[illegible]	33.25	33.39	33.12	33.17			
24		32.75	32.70	32.94	33.98	33.46	32.94	33.40	33.[illegible]	33.39	33.51	33.21	32.88			
25		32.80	32.69	32.95	33.68	33.81	32.94	33.51	33.[illegible]	33.28	33.66	33.36	31.87			
26		32.90	32.51	32.43	33.68	33.86	33.60	33.57	33.[illegible]	33.20	33.84	33.44	33.34			
27		32.83	32.16	32.25	33.68	33.64	33.30	33.58	33.[illegible]	33.65	33.62	33.22	33.26			
28		32.83	32.71	32.54	33.68	33.77	33.28	33.62	33.[illegible]	32.76	33.62	33.53	33.23			
29		32.98		32.12	33.68	33.80	33.55		33.58	33.93	33.62	33.01	33.3[illegible]			
30		32.98		32.47	33.46	33.76	33.69	33.62	33.48	—	33.64	32.99	33.[illegible]			
31		32.77		32.25		33.76		33.12	33.58		33.23		32.8[illegible]			
1-10 MEAN		33.01	32.89	32.99	32.57	33.53	33.69	33.69	33.53	33.61	33.70	33.68	33.19			
11-20 MEAN		32.89	33.08	33.49	33.71	33.44	33.09	33.74	33.64	33.34	33.52	33.50	33.17			
21-31 MEAN		32.87	32.50	32.59	33.71	33.74	33.36	33.46	33.58	33.40	33.57	33.20	33.[illegible]2			
MON. MEAN		32.91	32.84	33.01	33.35	33.58	33.38	33.63	33.58	33.45	33.60	33.42	33.19	33.33		
MAX.		33.13	33.60	33.61	34.02	33.86	33.77	33.95	33.[illegible]	33.93	33.[illegible]	34.04	33.[illegible]		34.04	
MIN.		32.23	32.10	32.12	31.28	32.79	32.66	33.12	33.[illegible]	32.82	33.12	33.[illegible]	31.87			31.28
RANGE		.90	1.50	1.49	2.74	1.07	1.11	.83	.[illegible]	1.11	.[illegible]	.[illegible]	1.[illegible]			
STD. DEV.		.18	.34	.38	.69	.24	.29	.20	.10	.2[illegible]	.2[illegible]	.3[illegible]	3[illegible]			

SEA WATER SUMMARY: SURFACE TEMPERATURES

STATION: S.E. FARALLON ISLAND LIGHTSTATION
FARALLON ISLAND, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956		10.30	10.10	9.60	10.30	11.90	11.10	11.70	12.20	13.30	11.80				
2			10.20	10.20	9.40	10.35	11.70	10.30	11.60	12.40	13.55	11.90				
3			10.00	10.20	9.40	10.50	11.60	10.90	11.40	12.50	13.30	12.10				
4			10.40	10.20	9.50	11.15	10.60	10.30	10.30	12.50	12.55	12.20				
5			10.90	10.10	9.40	11.00	10.40	10.70	10.50	12.45	12.40	12.10				
6			10.90	10.00	9.50	11.55	11.40	10.50	10.40	13.00	13.00	12.10				
7			10.30	10.00	9.60	12.35	11.35	10.30	10.40	12.80	13.40	12.20				
8			10.80	9.60	9.40	11.35	11.20	10.10	10.40	13.25	13.40	12.20				
9			11.00	9.80	9.30	12.40	11.00	10.20	10.20	13.90	14.15	12.30				
10			10.90	9.50	9.50	12.10	11.00	10.40	11.15	14.00	13.50	12.40				
11			10.85	9.00	9.50	10.20	10.50	10.50	11.50	13.10	13.50	12.20				
12			10.90	8.90	9.60	10.95	10.40	10.30	11.30	14.20	12.60	12.25				
13			10.80	9.20	10.25	10.50	10.70	10.35	11.20	14.80	13.10	12.00				
14			11.60	10.30	10.70	10.00	10.45	10.70	11.25	14.85	13.60	11.40				
15			10.70	9.40	10.70	10.00	10.45	12.20	11.70	15.00	12.60	11.35				
16			10.00	9.50	10.65	9.90	10.80	12.60	12.80	15.20	13.60	11.20				
17			9.00	10.00	10.00	9.80	11.25	11.20	12.60	15.35	13.20	11.40				
18		11.20	8.70	10.20	10.30	10.30	10.90	11.50	11.70	14.85	13.40	11.50				
19		11.30	9.40	9.50	9.90	11.10	11.10	11.40	11.75	14.20	13.00	11.00				
20		11.70	9.60	10.00	10.20	11.40	10.00	11.90	12.05	13.90	13.20	11.10				
21		11.60	10.00	10.40	10.30	10.80	10.70	12.50	12.20	13.50	13.35	11.10	11.60			
22		11.55	10.30	10.40	11.20	10.40	11.70	12.35	12.50	13.35	12.75	11.00	11.20			
23		11.70	10.35	9.60	10.90	10.80	11.20	11.70	12.60	13.25	12.20	10.90	10.00			
24		11.55	10.45	10.40	9.90	10.50	10.30	11.40	12.45	13.60	11.45	11.00	10.90			
25		11.65	10.50	10.30	9.90	10.50	10.00	12.00	12.50	13.55	11.80	10.90	11.10			
26		11.05	10.45	10.40	10.00	10.20	10.10	12.20	11.25	13.55	11.90	10.50	11.00			
27		11.30	10.30	9.60	10.20	10.10	10.30	12.10	11.60	13.40	11.70	10.70	10.90			
28		11.00	10.00	9.65	10.65	10.10	11.10	12.05	11.95	13.60	11.75	11.00	11.10			
29		10.30	10.00	10.00	11.00	10.40	10.30	12.20	12.10	13.60	11.80	11.00	10.75			
30		10.90		9.40	10.95	10.80	10.75	11.70	12.50	13.45	11.60	11.00	11.10			
31		10.35		9.40		10.90		11.20	12.60		11.80		10.90			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		11.22	10.32	9.84	10.06	10.74	10.83	11.25	11.61	13.64	12.79	11.52	10.96	11.23		
MAX.		11.70	11.60	10.40	11.20	12.40	11.90	12.60	12.80	15.35	14.15	12.40	11.60		15.40	
MIN.		10.30	8.70	8.90	9.30	9.80	10.00	10.10	10.20	12.20	11.45	10.50	10.00		-	8.70
RANGE		1.40	2.90	1.50	1.90	2.60	1.90	2.50	2.60	3.15	2.70	1.90	1.60			
STD. DEV.			.67	.39	.48	.68	.49	.65	.66	.81	.64	.48				

SEA WATER SUMMARY: TEMPERATURES STATION: SE FARALLON ISLAND, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	11.20	10.40	11.80	10.80	11.10	13.10	11.10	12.10	12.20	16.40	15.20	14.55			
2		11.60	10.50	11.70	10.60	11.00	12.00	11.00	12.00	12.30	16.20	15.00	14.60			
3		11.60	10.60	11.70	10.00	11.40	11.90	11.20	12.20	12.20	16.30	15.05	14.80			
4		11.60	10.60	11.80	10.20	11.35	11.70	11.20	12.40	12.50	16.10	15.10	14.60			
5		11.20	10.40	11.60	10.10	11.40	11.60	11.40	12.20	12.40	16.00	15.05	14.50			
6		11.45	10.10	11.70	10.10	11.40	11.30	13.00	12.10	13.00	15.90	15.05	14.45			
7		11.40	10.60	11.80	9.40	11.40	11.30	12.80	12.10	12.20	15.95	15.05	14.45			
8		10.90	10.80	12.00	10.10	11.50	11.95	12.50	12.15	12.30	16.00	14.95	14.30			
9		11.05	10.55	12.00	10.60	12.60	12.00	11.50	12.10	12.40	16.00	14.95	11.30			
10		11.15		11.90	11.00	12.10	11.30	11.40	12.40	12.45	16.00	14.90	11.00			
11		11.10		11.70	11.20	13.00	11.00	11.20	12.50	12.50	15.85	14.50	11.05			
12		11.50		11.60	10.85	12.80	10.90	11.80	12.00	12.60	16.00	14.85	11.10			
13		11.50	11.05	11.45	10.70	12.50	10.90	12.00	11.90	13.00	15.90	15.00	11.00			
14		11.60	11.65	11.20		12.10	11.00	13.20	12.00	13.05	16.00	15.00	11.00			
15		11.50	11.65	11.35	11.10	12.50	11.10	12.05	12.10	13.05	15.85	15.05	11.50			
16		11.40	11.25	11.00	11.40	12.90	11.10	12.10	12.50	13.20	15.90	15.00	11.30			
17		11.55	11.25	10.80	10.60	12.60	11.50	12.40	12.10	14.00	15.60	14.95	11.40			
18		11.30	11.10	10.70	10.70	12.70	10.90	12.20	12.15	13.90	15.50	14.80	11.70			
19		11.40	11.10	10.90	10.20	12.80	10.90	11.85	12.20	15.30	15.20	14.85	12.00			
20		11.30	11.25	11.25	10.10	12.20	11.20	12.30	12.10	15.35	15.00	14.90	12.05			
21		11.15	11.25	10.50	10.15	12.20	11.10	12.30	12.00	15.40	15.05	14.80	11.10			
22		10.95	12.10	10.70	10.20	12.30	11.15	12.00	12.20	15.50	15.00	14.70	11.30			
23		10.75	11.60	10.60	10.40	12.00	11.10	11.85	12.10	15.40	15.10	14.75	11.80			
24		10.80	11.80	10.60	11.00	12.10	11.30	12.00	12.10	15.35	15.20	14.80	11.70			
25		10.90	11.60	10.45	10.40	12.30	11.20	11.90	12.10	15.70	15.10	14.70	12.00			
26		10.55	11.70	10.25	11.40	11.85	11.40	12.00	12.00	15.90	15.20	14.60	11.80			
27		9.90	12.10	10.10	13.20	11.00	12.00	12.05	12.10	16.10	15.10	14.65	11.60			
28		10.40	12.60	10.30	11.40	10.90	11.60	11.90	12.40	16.20	15.10	14.65	12.00			
29		10.20		10.50	11.10	10.90	11.50	11.70	12.00	16.20	15.00	14.60	12.00			
30		10.50		11.30	11.20	11.50	11.30	12.00	14.00	16.80	15.05	14.60	11.70			
31		10.80		11.35		12.20		12.00	12.15		15.10		11.90			
MEAN		11.11	11.18	11.18	10.70	11.95	11.41	11.93	12.21	13.95	15.60	14.87	12.31	12.37		
MAX.		11.60	12.60	12.00	13.20	13.00	13.10	13.20	14.00	16.80	16.40	15.20	14.80		16.80	
MIN.		9.90	10.10	10.10	9.40	10.90	10.90	11.00	11.90	12.20	15.00	14.50	11.00			9.40
RANGE		1.70	2.50	1.90	3.80	2.10	2.20	2.20	2.10	4.60	1.40	.70	3.80			
STD.DEV.		.42	.60	.49	.72	.56	.45	.56	.55	1.17	.36	.16	1.00			

SEA WATER SUMMARY: Salinities Daily Surface STATION Farallon Island, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	33.54	33.51	33.30	33.21	33.26	32.57	33.69	34.29	33.67	33.66	34.11	33.12			
2		33.51	33.55	33.42	33.81	33.43	33.12	33.77	33.62	33.64	34.79	35.14	34.12			
3		33.56	33.58	33.10	33.62	33.48	33.12	33.71	33.89	33.86	34.80	33.42	33.35			
4		33.54	33.49	32.91		33.51		33.98	33.92	33.64	33.58	33.38	33.13			
5		33.48	33.33	32.94	33.59	33.48	33.40	33.95	34.14	33.86	34.12	33.14	33.68			
6		33.52	33.32	32.34	33.57	33.47	33.52	33.94	33.62	33.89	34.07	33.20	33.68			
7		33.49	33.38	32.91	33.71	33.58	33.57	33.66	33.60	33.61	34.03	33.03	33.52			
8		33.44	33.35	32.88	33.66	34.26	33.54	34.07	33.60	33.62	33.17	31.64	33.87			
9			33.28	31.40	33.76	33.20	33.52	33.66	33.89	33.61	33.15	33.42	33.53			
10		33.54		31.38	33.37	33.26	33.64	33.69	33.86	33.63	31.69	33.39	35.72			
11		33.58		32.77	34.27	33.22	33.84	33.73	33.85	33.65	33.06	33.45	35.70			
12		33.58		33.10	33.44	33.24	33.67	33.72	33.89	34.36	33.04	26.99	35.70			
13		33.61	33.52	33.06	33.39	29.14	33.68	33.54	33.85	35.16	32.96	28.04	34.75			
14		33.57	33.71	32.71		28.12	33.66	33.55	33.58	35.15	34.04	33.74	34.76			
15		33.59	33.47	33.19	33.37	33.40	33.20	33.98	33.58	34.62	33.84	33.74	30.63			
16		33.55	33.31	33.17	33.35	33.27	33.72	33.98	34.09	33.66	33.87	34.63	33.55			
17		33.55	33.33	33.11	32.98	32.01	32.77	33.68	33.77	33.78	33.39	34.27	33.47			
18		33.58	33.30	33.10	33.41	33.25	33.75	33.13	34.28	33.63	33.37	19.53	33.46			
19		33.55	33.34	32.94	33.93	33.29	33.74	33.16	33.69	33.63	33.67	35.89	33.44			
20		33.59	33.34	32.95	33.25	31.83	33.71	33.77	33.68	33.66	33.84	35.90	33.43			
21		33.59	32.97	32.83	34.38	33.34	33.77	33.74	33.68	33.64	33.91	35.91	33.21			
22		33.49	33.32	32.88	33.62	33.27	33.95	33.73	33.68	33.68	31.35	35.86	33.84			
23		33.48	33.46	32.90	33.46	33.40	33.69	33.58	33.69	33.67	31.15	33.40	33.81			
24		33.46	33.46	33.15	33.42	33.41	33.80	33.59	33.82	33.62	33.39	33.53	33.68			
25		33.48	33.44	33.13	33.74	33.41	33.77	33.80	33.82	33.49	33.56	33.40	33.69			
26		33.50	33.34	33.31	33.69	33.82	34.30	34.09	33.68	33.55	33.49	33.40	33.47			
27		33.52	33.42	33.30	33.57	33.42	34.29	33.69	33.80	33.55	33.82	33.40	32.49			
28		33.42	33.24	33.37	33.61	33.39	34.44	33.68	33.94	30.97	33.83	33.95	32.20			
29		33.49		33.34	33.49	33.39	33.66	33.51	33.78		33.39	35.68	33.40			
30		33.50		33.34	33.49	33.35	33.67	34.04	33.71	33.72	34.38	34.87	33.23			
31		33.52		33.24		33.34		34.04	33.66		35.37		33.20			
												*	*			
MEAN		33.53	33.39	32.95	33.59	33.03	33.66	33.74	33.80	33.73	33.54					
MAX.		33.61	33.71	33.42	34.38	34.26	34.44	34.09	34.29	35.16	35.37					
MIN.		33.42	32.97	31.38	32.98	28.12	32.57	33.13	33.58	30.97	31.15					
RANGE		.19	.74	1.04	1.40	6.14	1.87	.96	.71	4.19	4.22					
STD.DEV.		.05	.15	.54	.34	1.39	.42	.25	.19	.80	1.04					

* VALUES QUESTIONABLE

SEA WATER SUMMARY: TEMPERATURES STATION SE FARALLON ISLAND, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	11.70	13.00	13.00	13.10	10.05	14.50	13.80	14.10	14.00	14.90	16.50	11.24			
2		12.10	13.05	13.10	13.00	10.20	14.75	14.00	14.60	14.80	14.60	17.00	11.50			
3		12.00	13.00	13.00	12.40	11.00	14.50	14.30	14.95	15.00	14.70	17.00	11.65			
4		11.80	12.60	13.00	12.95	12.00	14.00	14.60	14.00	15.20	14.90	16.50	12.00			
5		11.70	13.00	13.00	13.00	10.00	14.25	14.70	14.05	15.00	14.50	17.00	12.40			
6		11.00	13.30	13.60	13.20	10.00	15.00	13.70	14.80	14.80	14.60	17.20	12.65			
7		11.20	13.05	13.00	12.95	11.50	16.25	13.60	14.20	14.80	14.40	17.40	13.00			
8		11.00	13.40	13.65	13.00	11.00	17.00	13.60	14.00	15.00	14.50	17.00	13.50			
9		11.05	14.00	13.50	13.00	11.30	18.00	14.00	14.90	15.50	14.75	16.75	13.70			
10		12.70	14.00	12.50	13.40	12.00	16.00	13.70	14.20	16.50	14.60	16.60	13.50			
11		12.50	14.00	13.00	14.00	12.30	14.75	14.00	13.90	15.50	14.50	16.25	13.65			
12		12.80	14.05	14.20	13.60	12.50	13.00	14.10	14.10	15.20	14.20	16.00	13.75			
13		13.10	13.90	12.40	13.80	12.00	12.25	14.00	15.00	15.60	13.75	15.80	13.75			
14		13.30	13.00	15.00	13.00	11.50	12.50	13.60	14.05	16.00	14.50	15.40	13.80			
15		12.10	13.30	12.90	13.95	11.30	13.00	14.00	14.10	16.20	15.50	14.90	13.70			
16		12.90	13.40	13.20	14.00	11.50	12.75	14.10	14.00	16.00	17.10	14.00	13.65			
17		12.20	13.00	12.00	13.85	11.50	13.00	14.00	15.80	14.50	17.50	11.50	13.50			
18		12.00	13.00	12.40	12.80	11.00	13.10	14.00	14.00	15.50	17.00	11.25	13.40			
19		12.20	13.20	12.00	13.00	11.00	13.20	14.30	13.80	16.10	16.50	11.20	13.25			
20		12.00	13.40	12.95	13.05	11.30	13.30	14.05	14.00	15.50	16.00	11.25	13.25			
21		12.05	13.50	13.40	12.90	11.50	14.00	14.00	14.00	15.40	15.50	11.30	13.00			
22		12.00	13.85	13.00	12.00	12.00	14.20	13.90	15.50	15.00	14.75	11.35	13.15			
23		12.05	13.80	13.10	11.00	12.50	13.00	14.10	15.40	15.50	14.90	11.40	13.20			
24		12.10	14.10	12.20	10.60	13.00	13.60	14.60	15.00	15.00	15.00	11.50	13.25			
25		13.00	13.80	13.20	10.40	14.00	14.00	14.20	15.00	14.50	15.00	11.60	13.35			
26		13.00	13.60	13.00	10.00	14.50	13.95	14.00	16.00	15.00	15.00	11.50	13.39			
27		12.60	13.60	13.00	10.00	14.75	13.90	14.20	14.80	15.00	15.15	11.35	13.40			
28		13.05	13.50	12.75	10.00	15.00	14.00	14.00	15.70	15.50	15.25	11.45	13.00			
29		13.05		13.10	10.00	15.50	14.10	14.40	16.00	15.20	15.50	11.60	13.25			
30		13.20		14.00	10.00	15.00	14.00	14.00	15.80	15.10	16.00	11.40	13.39			
31		14.00		13.20		14.00		13.95	15.50		17.00		12.30			
1-10 MEAN		11.62	13.24	13.14	13.00	10.90	15.48	14.00	14.38	15.06	14.64	16.90	12.51			
11-20 MEAN		12.51	13.42	13.00	13.50	11.59	13.09	14.02	14.28	15.61	15.66	13.76	13.57			
21-31 MEAN		12.74	13.72	13.09	10.69	13.80	13.88	14.12	15.34	15.12	15.37	11.44	13.15			
MON. MEAN		12.30	13.44	13.08	12.40	12.15	14.14	14.05	14.68	15.26	15.23	14.03	13.08	13.65		
MAX.		14.00	14.10	15.00	14.00	15.50	18.00	14.70	16.00	16.50	17.50	17.40	13.80		18.00	
MIN.		11.00	12.60	12.00	10.00	10.00	12.25	13.60	13.80	14.00	13.75	11.20	11.24			10.00
RANGE		3.00	1.50	3.00	4.00	5.50	5.75	1.10	2.20	2.50	3.75	6.20	2.56			
STD. DEV.		.73	.36	.70	1.09	1.42	1.40	.30	.55	.57	.90	1.66	.65			

SEA WATER SUMMARY: SALINITIES — STATION: SE. FARALLON ISLAND, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.23	33.43	30.09	32.66	33.40	32.75	33.33	33.11	33.15	33.31	33.30	33.40			
2		33.15	33.49	32.69	32.66	33.51	32.83	33.70	33.13	33.15	33.14	33.30				
3		32.32	33.37	30.88	32.71	33.50	32.70	33.71	33.12	33.13	33.31	33.37	33.40			
4		32.41	33.37	30.78	32.66	33.48	32.70	33.70	33.15	33.21	33.24	33.15	33.40			
5		32.98	33.42	30.94	32.66	33.45	32.70	33.21	33.16	33.19	33.22	33.17	33.40			
6		33.38	33.46	32.00	32.66	33.50	32.92	33.17	33.19	33.17	33.22	33.17	33.44			
7		33.44	33.33	32.81	33.24	33.46	32.89	33.15	33.53	33.22	33.35	33.21	33.43			
8		33.29	33.32	32.00	32.21	33.49	32.92	33.22	33.19	33.12	33.37	33.20	33.42			
9		33.28	33.30	32.74	32.28	33.42	32.88	33.40	33.13	33.12	33.39	33.18				
10		33.76	33.26	30.76	32.35	33.20	33.13	33.35	33.13	33.18	33.48	33.19	33.29			
11		33.44	31.29	31.74	32.37	33.21	33.15	33.30	33.26	33.35	33.42	33.46	33.24			
12		33.72	31.27	31.73	30.70	33.21	33.18	33.28	33.28	33.41	33.43	33.44	33.31			
13		33.09	31.28	31.11	32.22	33.13	33.37	33.42	33.35	33.40	33.42	33.46	33.35			
14		33.10	29.17	32.94	31.36	33.13	33.20	33.43	33.33	33.38	33.31	33.38	33.31			
15		32.99	31.60	32.99	32.56	33.17	33.22	33.48	33.35	33.37	33.29	33.42	33.31			
16		32.49	31.31	32.94	32.58	32.89	33.19	33.48	33.40	33.35	33.28	33.55	33.28			
17		32.79	31.29	33.03	32.61	33.10	33.17	33.47	33.81	33.31	33.30	33.51	33.32			
18		32.77	33.19	33.44	32.56	33.01	33.33	33.46	33.28	33.34		33.53	33.34			
19		32.89	33.21	33.46	32.65	32.90	33.39	33.48	33.26	33.36	33.46	33.53	33.31			
20		32.88	33.13	32.74	20.31	32.91	33.06	33.46	33.17	33.39		33.51	33.34			
21		32.84	33.12	32.75	22.97	32.93	32.14	33.46	33.15		33.47	33.44	33.33			
22		33.28	31.63	32.78	20.70	33.02	32.83	33.47	33.12	33.39	33.44	33.42	33.33			
23		32.77	33.08	32.45	19.78	32.84	33.21	33.35	33.24	33.40	33.41	33.44	33.37			
24		32.76	33.12	32.56	33.58	33.10	32.66	33.34	33.24	33.42	33.42	33.44	33.42			
25		33.06	28.12	29.07	33.65	33.02	32.70	33.35	33.22	33.42		33.42	33.39			
26		33.31	28.14	28.74	33.67	33.04	33.29	33.06	33.15	33.37	33.42	33.41				
27		33.42	31.36	28.82	33.74	30.56	33.22	33.06	33.08	33.25	33.42		33.40			
28		33.37	31.31	31.37	33.61	30.59	33.40	32.31	33.07	33.37	33.40	33.40	33.44			
29		33.50		31.45	33.65	30.62	33.65	33.19	33.15	33.36	33.33	33.42	33.17			
30		33.47		29.81	33.62	30.57	33.53	33.19	33.15		33.33	33.39	33.22			
31		33.40		32.56		32.14		33.17	33.16		33.33		33.19			
1-10 MEAN		33.12	33.38	31.57	31.61	33.44	32.84	33.39	33.18	33.16	33.30	33.22	33.40			
11-20 MEAN		33.02	31.67	32.61	30.99	33.07	33.23	33.43	33.35	33.37	33.36	33.48	33.31			
21-31 MEAN		33.20	31.24	31.12	29.90	32.04	33.06	33.18	33.16	33.37	33.40	33.42	33.33			
MON. MEAN		33.12	32.16	31.75	30.83	32.82	33.04	33.33	33.23	33.30	33.35	33.37	33.34	32.80		
MAX.		33.76	33.49	33.46	33.74	33.51	33.65	33.71	33.81	33.42	33.48	33.55	33.44		33.81	
MIN.		32.32	28.12	28.74	19.78	30.56	32.14	32.31	33.07	33.12	33.14	33.15	33.17			19.78
RANGE		1.44	5.37	4.72	13.96	2.95	1.51	1.40	.74	.30	.34	.40	.27			
STD. DEV.		.37	1.49	1.26	3.73	.80	.32	.28	.16	.08	.08	.10	.07			

SEA WATER SUMMARY: TEMPERATURES STATION: S.E. FARALLON ISLAND

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	12.35	12.00							14.10	13.00	13.10	13.60			
2		12.25	12.20							13.60	13.60	13.10	13.20			
3		12.20	12.40							13.90	14.20	13.00	12.90			
4		12.40								13.20	14.00	13.20	13.00			
5		12.50								12.60	13.70	13.20	13.00			
6		12.60								13.10	14.30	13.40	13.00			
7		12.70								13.00	13.70	13.50	13.10			
8		12.75								11.70	14.00	13.20	13.00			
9		12.80								11.80	14.30	12.70	13.00			
10		12.90								12.50	14.80	12.50	13.00			
11		13.00								13.80	14.50	12.55	13.10			
12		13.05								14.70	14.70	12.50	12.30			
13		13.10								11.70	13.70	13.00	12.70			
14		12.70								14.70	14.00	12.70	11.90			
15		12.60								14.50	14.80	12.40	12.00			
16		12.35								13.70	14.20	12.30	12.30			
17		12.65								13.50	14.40	12.60	12.20			
18		12.60								13.30	14.00	13.00	12.10			
19		12.65								14.20	13.90	13.60	12.10			
20		12.60								14.70	13.80	13.40	12.40			
21		12.55								15.60	14.20	13.00	12.60			
22		12.50								14.00	14.00	13.20	12.50			
23		12.50								14.50	13.90	13.00	13.00			
24		12.80								13.90	14.40	13.10	12.80			
25		13.00								13.80	14.00	13.40	13.10			
26		13.20								14.20	13.50	13.10	13.50			
27		13.30								13.00	13.20	13.20	13.00			
28		13.00								12.60	13.00	13.60	12.80			
29		13.10								13.10	12.70	13.00	12.60			
30		12.90								12.70	13.00	13.30	13.00			
31		12.40									12.95		12.40			
1-10 MEAN		12.54								12.95	13.96	13.09	13.08			
11-20 MEAN		12.73								13.88	14.20	12.80	12.31			
21-31 MEAN		12.84								13.74	13.53	13.18	12.84			
MON. MEAN		12.91								13.52	13.89	13.02	12.75			
MAX.		13.30								15.60	14.80	13.60	13.60			
MIN.		12.20								11.70	12.70	12.30	11.90			
RANGE		1.10								3.90	2.10	1.30	1.70			
STD. DEV.		.28								.94	.53	.34	.43			

NO THERMOMETER
NO TEMPERATURES FOR FEB, MAR, APR, MAY, JUNE, JULY, AUG.

SEA WATER SUMMARY: · SALINITIES STATION · S.E FARALLON ISLAND, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	33.17	34.49	32.46	34.29	34.85	33.86	34.87	33.80	33.53	33.79	33.55	33.48			
2		33.19	33.36	32.78	34.02	34.88	33.86	34.78	33.81	33.58	33.75	33.53	33.49			
3		33.18	33.24	32.96	34.02	34.90	34.72	34.81	33.79	34.10	33.62	33.49	33.53			
4		33.17		34.15	34.04	34.88	34.39	34.87	33.78	33.58	33.72	33.55	33.55			
5		33.25		34.14	34.04	35.05	34.36	34.88	33.79	33.77	33.69	33.55	33.48			
6		14.86		34.11	34.07	34.90	34.36	34.85	33.71	33.78	33.68	33.66	33.53			
7		11.37		34.14	34.09	34.83	34.42	34.85	33.69	33.78	33.68	33.66	33.48			
8		15.64		34.17	34.05	34.81	34.79	34.83	33.73	33.71	33.63	33.58	33.48			
9		13.59		34.23	34.06	34.83	33.86	34.85	33.66	33.85	33.57	33.59	33.53			
10		11.00		34.15	34.05	34.81	33.89	33.78	33.69	33.73	33.57	33.51	33.62			
11		14.03		34.12	34.05	34.83	34.05	33.82	33.77	33.75	33.63	33.51	33.57			
12		20.71		34.31	34.04	34.85	34.09	33.78	33.78	33.65	33.59	33.53	33.49			
13		19.99		34.20	34.07	34.76	33.86	33.80	33.78	33.83	33.62	33.63	33.46			
14		33.82			34.09	34.78	33.87	33.77	33.82	33.66	33.73	33.57	33.48			
15		33.80			34.06	34.81	34.87	33.83	33.74	33.67	33.73	33.56	33.58			
16		33.82			34.05	34.78	34.60	33.78	33.71	33.75	33.63	33.65	33.51			
17		33.71			34.07	34.78	34.35	33.80	33.70	33.71	33.51	33.66	33.55			
18		33.74		32.56	34.08	34.80	34.37	33.80	33.73	33.71	33.53	33.77	33.51			
19		33.71		32.57	34.10	34.76	34.62	33.82	33.73	33.51	33.58	33.52	33.52			
20				32.48	34.11	34.75	33.89	33.80	33.72	33.53	33.53	33.48	33.57			
21		34.48		32.61	34.08	34.74	33.86	33.74	33.72	33.57	33.55	33.48	33.59			
22		33.89		32.55	34.11	34.75	33.89	33.77	33.70	33.58	33.55	33.46	33.58			
23		33.55		32.52	34.51	34.74	34.22	33.84		33.63	33.53	33.41	33.56			
24		33.11	32.79	32.54	34.12	34.72	34.78	33.84		33.62	33.57	33.78	33.57			
25		33.27	32.81	33.00	34.87	34.40	34.79	33.78		33.60	33.58	33.39	33.57			
26		33.32	32.94	32.59	34.68	34.38	34.92	33.78		33.59	33.57	33.53	33.64			
27			32.75	32.57	34.90	34.69	34.85	33.86		33.69	33.77	33.48	33.64			
28		34.42	32.76	32.59	34.92	33.87	34.78	33.77		33.71	33.66	33.49	33.66			
29		34.56		32.57	34.89	33.95	34.87	33.73		33.91	33.66	33.48	33.60			
30		34.50		32.57	34.88	33.86	34.79	33.85		33.78	33.78	33.51	33.64			
31		34.57		32.61		33.89		33.79			33.66		33.64			
1-10 MEAN											33.67	33.57	33.52			
11-20 MEAN											33.61	33.59	33.52			
21-31 MEAN											33.62	33.50	33.61			
MON. MEAN											33.63	33.55	33.55			
MAX.											33.79	33.78	33.66			
MIN.											33.51	33.39	33.46			
RANGE											.28	.39	.20			
STD. DEV.											.07	.10	.05			

HIGH SALINITIES QUESTIONABLE

LOW SALINITIES DUE TO HEAVY RAINS AND RUNOFF

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: PACIFIC GROVE, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1945	11.70	12.40	11.10	11.40	12.10	13.90	14.40	13.50	13.70	13.90	14.70	12.60			
2		12.40	12.50	10.80	10.80	11.80	14.00	14.70	13.10	13.90	14.00	14.90	12.40			
3		12.30	12.80	10.70	10.90	11.70	15.10	14.30	13.30	14.60	14.20	15.10	12.00			
4		12.40	12.70	10.60	10.10	11.90	14.40	14.50	13.00	14.60	14.30	14.70	12.50			
5		12.80	12.70	10.70	11.10	10.90	14.20	14.70	13.60	14.70	14.00	14.90	12.60			
6		12.80	12.60	10.80	10.60	11.50	13.60	15.20	13.70	13.90	13.70	14.70	12.60			
7		12.90	12.60	10.50	10.60	11.50	13.90	15.20	14.10	14.00	16.00	14.60	12.40			
8		12.70	12.40	10.50	11.50	11.30	14.20	15.70	13.80	15.50	15.90	14.00	12.40			
9		12.70	12.80	11.10	10.20	11.30	14.40	15.70	14.40	14.40	15.70	13.60	12.10			
10		12.70	12.80	11.50	10.50	13.00	13.10	16.60	14.30	14.20	15.50	14.40	12.00			
11		13.00	13.20	11.70	10.80	12.50	12.90	16.10	14.10	13.60	15.70	14.20	12.20			
12		12.70	13.00	11.80	11.10	12.50	13.30	16.40	14.00	13.70	15.70	13.90	12.00			
13		12.70	13.10	11.60	11.20	11.60	13.10	16.30	14.10	13.70	15.70	13.90	11.50			
14		12.80	12.90	11.20	11.00	11.80	12.00	16.10	14.30	14.20	16.10	13.90	11.60			
15		12.80	12.40	10.60	11.70	12.80	11.60	15.70	14.20	14.10	16.00	13.80	11.60			
16		12.50	12.20	10.50	11.70	13.80	12.60	15.80	14.10	13.40	15.50	13.60	11.70			
17		12.30	12.60	10.60	11.30	13.50	13.80	15.20	14.10	14.30	15.00	13.70	11.80			
18		12.30	12.40	10.60	11.10	13.60	13.40	14.70	14.80	15.20	14.60	13.80	11.60			
19		12.20	12.10	10.70	10.50	13.70	13.80	14.60	14.80	14.70	15.70	13.80	11.60			
20		11.80	12.30	11.10	10.70	13.30	13.30	15.40	14.50	15.20	15.30	13.80	12.00			
21		11.70	12.40	10.90	10.40	13.40	13.40	15.80	14.70	15.20	15.20	13.40	12.70			
22		11.30	12.60	10.70	10.40	13.50	13.10	16.40	14.80	15.10	14.70	13.20	12.70			
23		11.20	12.90	10.60	10.80	13.80	12.70	16.30	13.90	15.10	14.80	13.60	12.80			
24		11.90	12.40	10.60	10.90	14.30	13.50	15.90	13.40	15.60	14.60	13.00	12.70			
25		12.00	12.30	11.00	10.80	15.00	13.40	16.20	13.40	16.00	13.10	13.50	12.80			
26		11.80	12.10	10.50	11.20	14.20	13.40	15.60	13.10	16.20	12.90	13.30	12.80			
27		12.00	11.90	10.70	10.90	14.30	13.40	14.40	13.50	15.50	13.10	13.20	12.82			
28		12.10	10.90	11.20	11.50	14.40	13.40	14.60	13.10	15.30	13.50	12.90	13.10			
29		11.90		11.30	11.30	14.30	13.80	12.40	13.00	14.20	13.70	13.00	13.30			
30		11.70		11.10	11.50	14.50	13.50	13.00	14.30	13.50	14.60	12.80	13.20			
31		11.90		11.10		14.20		13.00	13.50		14.90		13.00			
MEAN		12.26	12.52	10.92	10.95	12.95	13.47	15.19	13.89	14.58	14.76	13.86	12.36	13.14		
MAX.		13.00	13.20	11.80	11.70	15.00	15.10	16.60	14.80	16.20	16.10	15.10	13.30		16.60	
MIN.		11.20	10.90	10.50	10.10	10.90	11.60	12.40	13.00	13.40	12.90	12.80	11.50			10.10
RANGE		1.80	2.30	1.30	1.60	4.10	3.50	4.20	1.80	2.80	3.20	2.30	1.80			
STD.DEV.		.46	.49	.43	.42	.99	.81	1.03	.49	.72	.83	.59	.46			

SEA WATER SUMMARY: Salinities Daily Surface

STATION: Pacific Grove, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1945	33.50	33.30	33.27	33.39	33.40	33.47	33.71	33.74	33.67	33.44	33.57	33.30			
2		33.55	33.21.	33.30	33.39	33.37	33.41	33.66	33.73	33.57	33.57	33.42	33.31			
3		33.53	33.30	33.41	33.27	33.49	33.55	33.60	33.69	33.57	33.54	33.47	33.30			
4		33.46	33.31	33.35	33.31	33.47	33.47	33.61	33.69	33.66	33.40	33.41	33.27			
5		33.44	33.31	33.40	33.30	33.46	33.47	33.60	33.69	33.53	33.46	33.41	33.30			
6		33.38	33.27	33.44	33.27	33.49	33.47	33.69	33.66	33.60	33.30	33.44	33.26			
7		33.33	33.33	33.44	33.38	33.53	33.57	33.75	33.77	33.54	33.51	33.39	33.18			
8		33.27	33.38	33.42	33.35	33.51	33.53	33.67	33.73	33.57	33.53	33.42	33.18			
9		33.21	33.26	33.40	33.33	33.46	33.44	33.68	33.70	33.77	33.41	33.35	33.15			
10		33.30	33.34	33.37	33.34	33.50	33.42	33.66	33.73	33.77	33.39	33.26	33.17			
11		33.24	33.41	33.38	33.31	33.49	33.44	33.62	33.71	33.68	33.37	33.18	33.27			
12		33.19	33.33	33.23	33.35	33.37	33.47	33.66	33.67	33.74	33.55	33.24	33.14			
13		33.27	33.26	33.38	33.39	33.40	33.50	33.67	33.67	33.84	33.67	33.26	33.12			
14		33.27	33.18	33.26	33.44	33.50	33.53	33.60	33.67	33.77	33.50	33.30	33.17			
15		33.21	33.27	33.38	33.40	33.35	33.53	33.54	33.77	33.69	33.68	33.35	33.04			
16		33.30	33.30	33.37	33.44	33.34	33.50	33.64	33.81	33.68	33.62	33.33	33.11			
17		33.21	33.27	33.55	33.27	33.37	33.40	33.62	33.80	33.49	33.61	33.22	33.18			
18		33.30	33.31	33.46	33.23	33.40	33.36	33.62	33.69	33.62	33.53	33.30	33.12			
19		33.21	33.37	33.40	33.38	33.48	33.44	33.70	33.67	33.64	33.41	33.30	33.21			
20		33.30	33.30	33.37	33.46	33.60	33.41	33.66	33.66	33.55	33.53	33.35	33.24			
21		33.11	33.33	33.34	33.35	33.46	33.38	33.74	33.77	33.54	33.48	33.33	33.04			
22		33.21	33.35	33.37	33.35	33.55	33.57	33.75	33.73	33.62	33.41	33.33	32.91			
23		33.26	33.26	33.31	33.46	33.57	33.54	33.75	33.71	33.68	33.31	33.28	32.98			
24		33.30	33.33	33.35	33.49	33.64	33.57	33.76	33.69	33.51	33.38	33.26	32.90			
25		33.21	33.38	33.26	33.49	33.74	33.60	33.69	33.74	33.54	33.38	33.27	32.91			
26		33.18	33.42	33.27	33.50	33.60	33.54	33.62	33.77	33.48	33.31	33.33	32.95			
27		33.14	33.44	33.34	33.51	33.57	33.42	33.62	33.81	33.44	33.37	33.30	33.03			
28		33.15	33.34	33.30	33.40	33.67	33.44	33.64	33.68	33.47	33.39	33.26	32.94			
29		33.30		33.38	33.44	33.58	33.51	33.67	33.75	33.64	33.42	33.39	32.87			
30		33.26		33.26	33.53	33.61	33.58	33.67	33.71	33.64	33.40	33.41	32.95			
31		33.30		33.27		33.48		33.73	33.70		33.39		33.22			
MEAN		33.29	33.32	33.36	33.39	33.50	33.48	33.66	33.72	33.62	33.46	33.34	33.12	33.44		
MAX.		33.55	33.44	33.55	33.53	33.74	33.60	33.76	33.81	33.84	33.68	33.57	33.31		33.84	
MIN.		33.11	33.18	33.26	33.27	33.34	33.36	33.54	33.66	33.44	33.30	33.18	32.87			32.87
RANGE		.44	.26	.29	.26	.40	.24	.22	.15	.40	.38	.39	.44			
STD.DEV.		.11	.06	.07	.07	.10	.06	.05	.04	.10	.10	.09	.11			

SEA WATER SUMMARY: Temperatures STATION: Pacific Grove, Calif

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1946	13.00	10.50	11.70	11.50	11.20	15.90	13.80	15.00	14.80	13.90	11.90	13.30			
2		13.10	10.60	11.90	11.60	11.00	15.00	13.80	14.90	15.50	13.80	11.90	13.10			
3		12.90	10.60	11.70	11.30	11.40	15.60	12.50	14.00	16.00	13.90	13.50	13.00			
4		12.80	10.50	11.40	11.70	11.50	14.50	12.20	13.50	14.50	13.60	11.90	13.10			
5		12.80	10.70	11.60	11.80	11.50	13.60	12.10	13.10	13.70	14.80	12.20	13.40			
6		12.60	11.20	12.00	12.65	11.90	13.90	12.10	12.70	13.60	14.50	12.10	13.20			
7		12.10	11.40	11.40	12.65	12.10	13.90	12.10	13.30	13.50	14.30	12.50	12.90			
8		12.00	11.40	11.60	12.70	12.90	15.00	12.80	13.20	13.40	14.40	12.40	13.10			
9		11.90	11.30	11.70	12.60	12.60	14.80	13.20	13.20	13.70	13.00	11.90	13.00			
10		11.40	11.40	10.80	12.60	12.30	13.50	13.10	13.30	13.70	13.10	12.00	13.00			
11		11.80	11.10	10.90	13.10	12.10	13.30	13.60	13.50	14.00	13.50	11.50	12.60			
12		11.00	11.20	10.80	13.40	12.20	13.20	13.50	13.50	13.70	13.40	11.00	12.60			
13		10.80	11.20	10.70	13.00	12.30	14.20	13.80	13.60	13.90	13.40	11.40	12.20			
14		10.60	11.20	10.70	11.90	12.50	15.20	13.30	13.50	13.50	14.20	11.40	11.80			
15		10.90	11.40	10.80	12.20	12.50	14.60	14.20	13.10	13.90	13.50	11.60	12.00			
16		10.90	11.20	11.50	12.20	12.80	14.10	14.70	13.70	13.90	13.30	11.90	11.60			
17		10.80	11.00	11.40	12.70	13.30	14.00	14.10	14.00	12.40	13.30	11.90	11.40			
18		11.60	11.20	11.00	13.10	13.80	14.50	14.60	14.60	14.00	13.70	12.00	11.70			
19		11.20	11.00	10.90	12.60	13.20	14.90	15.10	14.70	14.00	13.50	12.50	11.50			
20		11.10	11.10	10.60	12.70	13.00	14.80	15.30	14.90	13.90	13.70	12.00	11.52			
21		10.70	11.20	10.00	12.20	13.50	13.00	14.40	14.90	13.00	13.80	13.00	12.00			
22		11.10	11.40	10.60	12.70	13.70	12.50	15.70	14.80	13.00	14.50	13.20	12.35			
23		11.00	11.50	11.10	13.20	13.70	13.50	16.40	14.80	13.00	14.20	13.30	12.70			
24		11.10	11.80	11.00	13.00	14.70	12.80	15.80	14.50	14.00	13.50	13.40	12.52			
25		11.20	11.70	11.00	12.70	14.70	13.40	15.30	14.30	14.00	13.20	12.80	12.80			
26		11.00	11.50	11.00	12.80	14.20	13.90	14.30	14.20	14.20	12.60	12.40	13.00			
27		10.90	11.90	11.00	11.80	14.30	13.80	14.10	13.70	13.90	12.10	12.70	12.60			
28		11.10	11.80	11.20	11.20	14.60	13.60	15.30	13.90	14.40	11.90	12.70	12.00			
29		10.90		10.70	10.90	14.70	14.70	14.40	14.50	14.50	12.10	12.70	12.00			
30		10.70		10.70	10.80	14.60	13.70	14.50	14.70	14.50	12.00	12.80	11.50			
31		10.50		10.90		14.80		14.00	14.50		12.00		11.70			
MEAN		11.45	11.21	11.11	12.31	13.02	14.11	14.00	14.00	13.94	13.44	12.28	12.43	12.78		
MAX.		13.10	11.90	12.00	13.40	14.80	15.90	16.40	15.00	16.00	14.80	13.50	13.40		16.40	
MIN.		10.50	10.50	10.00	10.80	11.00	12.50	12.10	12.70	12.40	11.90	11.00	11.40			10.00
RANGE		2.60	1.40	2.00	2.60	3.80	3.40	4.30	2.30	3.60	2.90	2.50	2.00			
STD.DEV.		.68	.38	.45	.67	.99	.85	1.08	.56	.83	.73	.61	.51			

SEA WATER SUMMARY: SALINITIES — STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1946	33.30	32.98	33.34	33.35	33.58	33.78	33.74	33.60	33.68	33.68	33.40	33.38			
2		33.21	33.18	33.33	33.03	33.55	33.68	33.81	33.58	33.77	33.61	33.39	33.30			
3		33.34	33.10	33.24	33.27	33.58	33.77	33.86	33.60	33.81	33.66	33.42	33.22			
4		33.21	33.24	33.37	33.35	33.55	33.86	33.81	33.61	33.70	33.70	33.54	33.34			
5		33.18	33.21	33.35	33.42	33.55	33.78	33.78	33.67	33.66	33.58	33.58	33.12			
6		33.15	33.13	33.41	33.37	33.47	33.71	33.78	33.75	33.68	33.62	33.58	33.08			
7		33.18	33.26	33.33	33.44	33.55	33.68	33.77	33.77	33.81	33.53	33.57	33.06			
8		33.27	33.10	33.38	33.53	33.48	33.73	33.77	33.77	33.67	33.57	33.31	33.13			
9		33.38	33.21	33.44	33.46	33.54	33.75	33.71	33.75	33.69	33.67	33.42	33.21			
10		33.31	33.06	33.34	33.47	33.48	33.67	33.78	33.80	33.71	33.71	33.46	33.24			
11		33.27	33.11	33.42	33.46	33.47	33.67	33.57	33.77	33.71	33.75	33.51	33.08			
12		33.13	33.12	33.35	33.44	33.47	33.68	33.57	33.74	33.61	33.75	33.50	33.07			
13		33.18	33.24	33.22	33.37	33.54	33.69	33.57	33.69	33.67	33.77	33.51	33.24			
14		33.11	33.10	33.30	33.44	33.60	33.75	33.60	33.67	33.73	33.57	33.42	33.28			
15		33.06	33.10	33.30	33.32	33.61	33.70	33.51	33.86	33.71	33.60	33.50	33.21			
16		33.14	33.06	33.41	33.37	33.61	33.71	33.64	33.81	33.71	33.53	33.50	33.17			
17		33.07	33.15	33.35	33.21	33.55	33.60	33.58	33.75	33.66	33.53	33.31	33.17			
18		33.12	33.22	33.26	33.28	33.60	33.60	33.50	33.81	33.62	33.47	33.48	33.28			
19		33.21	33.33	33.27	33.31	33.57	33.61	33.51	33.77	33.74	33.61	33.34	33.30			
20		33.19	33.48	33.30	33.31	33.58	33.73	33.64	33.81	33.80	33.73	33.47	33.13			
21		33.30	33.21	33.35	33.24	33.51	33.67	33.68	33.78	33.60	33.60	33.35	33.12			
22		33.14	33.22	33.39	33.40	33.51	33.60	33.67	33.70	33.69	33.55	33.30	33.11			
23		33.12	33.27	33.49	33.21	33.53	33.73	33.64	33.74	33.64	33.53	33.26	33.21			
24		33.15	33.34	33.51	33.18	33.78	33.70	33.58	33.77	33.64	33.58	33.55	33.11			
25		33.26	33.50	33.22	33.27	33.75	33.61	33.57	33.77	33.61	33.54	33.41	33.15			
26		33.26	33.41	33.31	33.57	33.67	33.77	33.50	33.61	33.64	33.47	33.38	33.10			
27		33.37	33.30	33.30	33.57	33.75	33.70	33.46	33.70	33.62	33.42	33.34	33.13			
28		33.27	33.30	33.07	33.55	33.62	33.62	33.60	33.81	33.55	33.55	33.39	33.13			
29		33.21		33.19	33.21	33.77	33.62	33.58	33.70	33.77	33.47	33.55	33.19			
30		33.21		33.33	33.57	33.77	33.74	33.57	33.77	33.69	33.47	33.37	33.18			
31		33.28		33.38		33.77		33.57	33.67		33.35		33.01			
MEAN		33.21	33.21	33.33	33.37	33.59	33.70	33.64	33.73	33.65	33.59	33.43	33.18	33.47		
MAX.		33.38	33.50	33.51	33.57	33.78	33.86	33.86	33.86	33.81	33.77	33.58	33.38		33.86	
MIN.		33.06	32.98	33.07	33.03	33.47	33.60	33.46	33.58	33.55	33.35	33.26	33.01			32.98
RANGE		.32	.52	.44	.54	.31	.26	.40	.28	.26	.42	.32	.37			
STD.DEV.		.08	.13	.10	.13	.08	.06	.10	.07	.06	.10	.08	.09			

SEA WATER SUMMARY: TEMPERATURES STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1947	11.70	11.00	12.20	12.80	14.40	14.40	14.10	13.80	15.90	14.20	13.00	13.10			
2		11.40	11.10	12.30	13.70	14.60	13.90	14.40	15.40	15.80	13.80	13.10	13.20			
3		11.00	11.20	12.30	13.30	14.50	14.90	14.40	14.50	15.70	14.20	12.90	12.90			
4		10.70	11.40	12.50	13.10	14.60	15.50	14.70	14.90	16.00	14.10	13.20	12.70			
5		11.50	11.40	12.40	12.90	14.20	16.20	14.50	14.30	15.30	13.30	13.10	12.20			
6		11.50	10.90	12.30	13.80	14.80	16.00	15.00	14.70	14.60	14.30	12.80	11.70			
7		11.60	11.20	12.40	13.60	14.80	16.10	14.50	14.20	15.30	13.40	12.60	12.00			
8		11.40	11.00	12.60	13.70	14.60	16.00	14.30	13.00	14.70	13.40	12.20	11.90			
9		11.10	11.10	12.80	13.70	14.40	16.50	15.20	14.00	15.20	13.60	12.10	12.00			
10		11.00	11.40	12.70	12.70	13.50	16.60	15.20	12.10	14.50	13.60	11.40	11.80			
11		11.70	11.60	12.90	13.20	13.60	16.30	15.30	13.30	14.40	13.80	12.00	11.60			
12		12.00	11.90	12.80	14.30	14.10	16.50	15.60	14.00	14.60	14.00	11.60	11.70			
13		11.70	11.90	13.00	14.50	14.10	17.00	16.50	14.00	13.10	13.90	11.40	11.40			
14		11.30	12.00	13.30	15.20	13.60	16.00	15.80	14.80	13.20	13.00	11.60	11.80			
15		11.30	12.10	12.70	13.90	12.70	13.20	14.60	15.60	14.00	13.90	11.50	11.90			
16		10.70	12.30	12.90	13.50	11.50	14.10	14.00	15.60	14.25	14.40	11.00	11.70			
17		10.60	12.00	12.80	13.50	12.00	15.40	14.10	15.60	14.50	14.60	10.70	11.80			
18		10.10	12.10	12.70	13.20	11.70	12.40	14.40	14.90	14.40	14.90	10.40	11.90			
19		11.20	12.10	12.70	13.50	12.00	12.40	14.80	14.60	14.50	15.10	10.50	11.60			
20		11.10	12.10	13.20	13.50	13.20	11.90	13.70	13.80	14.50	15.40	10.60	11.70			
21		11.00	12.20	13.20	11.50	13.00	13.10	13.10	14.10	14.60	14.20	10.70	12.20			
22		11.00	12.00	13.00	11.60	12.80	13.20	13.80	14.70	15.60	14.60	10.60	12.30			
23		11.00	12.10	13.20	11.60	12.90	13.70	13.30	14.80	15.20	14.20	10.80	12.20			
24		11.50	12.40	12.70	11.70	13.20	12.60	13.20	14.80	14.20	14.10	10.80	12.10			
25		11.60	12.40	12.70	11.40	12.60	12.90	13.60	14.90	13.30	14.40	11.00	12.00			
26		11.80	12.50	12.90	12.10	12.50	13.20	14.40	15.00	14.30	13.70	11.20	12.00			
27		11.50	12.40	12.90	12.20	12.60	14.00	14.00	15.70	14.10	13.60	11.30	11.60			
28		11.10	12.20	13.00	12.50	13.50	13.70	15.20	15.80	14.00	11.90	11.90	12.20			
29		10.90		12.70	13.00	14.00	14.60	14.20	15.90	13.80	12.60	12.80	11.80			
30		11.10		12.80	13.80	13.70	14.10	14.70	16.00	14.10	13.20	13.00	11.60			
31		11.20		13.10		13.80		15.10	16.00		13.50		11.40			
MEAN		11.24	11.79	12.76	13.10	13.47	14.55	14.51	14.67	14.59	13.90	11.73	12.00	13.19		
MAX.		12.00	12.50	13.30	15.20	14.80	17.00	16.50	16.00	16.00	15.40	13.20	13.20		17.00	
MIN.		10.10	10.90	12.20	11.40	11.50	11.90	13.10	12.10	13.10	11.90	10.40	11.40			10.10
RANGE		1.90	1.60	1.10	3.80	3.30	5.10	3.40	3.90	2.90	3.50	2.80	1.80			
STD.DEV.		.42	.42	.27	.93	.87	1.27	.81	.93	.76	.81	.74	.47			

SEA WATER SUMMARY: SALINITIES STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1947	33.19	33.21	33.04	33.37	33.38	33.44	33.77	33.68	33.54	33.61	33.39	33.40			
2		33.02	33.18	33.15	33.27	33.40	33.44	33.68	33.64	33.51	33.64	33.37	33.30			
3		33.06	33.30	33.05	33.22	33.37	33.57	33.61	33.70	33.64	33.54	33.31	33.26			
4		33.11	33.31	32.95	33.42	33.40	33.49	33.70	33.69	35.69	33.68	33.34	33.27			
5		33.08	33.30	33.02	33.37	33.33	33.46	33.62	33.74	33.49	33.69	33.28	33.24			
6		33.18	33.26	33.08	33.35	33.57	33.34	33.69	33.75	33.57	33.54	33.19	33.17			
7		33.19	33.28	32.99	33.27	33.62	33.41	33.69	33.58	33.70	33.64	33.24	33.28			
8		33.26	33.31	33.33	33.39	33.62	33.44	33.69	33.74	33.71	33.60	33.24	33.27			
9		33.37	33.07	33.19	33.37	33.41	33.48	33.71	33.73	33.77	33.64	33.19	33.26			
10		33.48	33.11	33.22	33.41	33.35	33.53	33.78	33.48	33.75	33.42	33.22	33.31			
11		33.34	33.12	33.30	33.33	33.41	33.47	33.77	33.68	33.84	33.42	33.21	33.27			
12		33.37	33.01	33.31	33.20	33.49	33.54	33.78	33.66	33.60	33.54	33.24	33.39			
13		33.30	33.03	33.29	33.30	33.49	33.58	33.69	33.78	33.68	33.67	33.30	33.51			
14		33.30	33.11	33.31	33.37	33.41	33.66	33.70	33.68	33.64	33.68	33.15	33.40			
15		33.33	33.10	33.35	33.48	33.40	33.68	33.67	33.60	33.57	33.61	33.39	33.37			
16		33.37	33.14	33.27	33.35	33.37	33.61	33.67	33.80	33.69	33.62	33.49	33.37			
17		33.22	33.15	33.24	33.33	33.42	33.57	33.71	33.74	33.71	33.49	33.38	33.35			
18		33.17	33.15	33.30	33.38	33.30	33.60	33.68	33.77	33.70	33.48	33.27	33.28			
19		33.22	33.21	33.27	33.41	33.40	33.60	33.67	33.69	33.69	33.37	33.35	33.42			
20		33.18	33.08	33.28	33.33	33.44	33.57	33.73	33.75	33.67	33.34	33.38	33.13			
21		33.21	33.14	33.33	33.33	33.49	33.62	33.69	33.61	33.53	33.40	33.39	33.48			
22		33.31	33.11	33.33	33.42	33.38	33.55	33.67	33.58	33.71	33.41	33.40	33.53			
23		33.22	33.02	33.31	33.30	33.41	33.57	33.60	33.69	33.62	33.46	33.54	33.34			
24		33.28	33.15	33.46	33.30	33.53	33.64	33.54	33.66	33.46	33.22	33.51	33.39			
25		33.34	33.11	33.27	33.27	33.48	33.57	33.74	33.64	33.57	33.28	33.55	33.41			
26		33.24	33.15	33.26	33.33	33.44	33.64	33.74	33.53	33.54	33.33	33.55	33.35			
27		33.22	33.11	33.33	33.50	33.48	33.78	33.81	33.54	33.60	33.33	33.30	33.38			
28		33.27	33.08	33.27	33.61	33.38	33.66	33.77	33.54	33.70	33.30	33.28	33.35			
29		33.14		33.26	33.57	33.46	33.74	33.67	33.60	33.70	33.30	33.37	33.42			
30		33.17		33.34	33.37	33.44	33.68	33.61	33.50	33.57	33.33	33.17	33.30			
31		33.22		33.30		33.55		33.70	33.58		33.39		33.37			
MEAN		33.24	33.15	33.24	33.36	33.44	33.56	33.70	33.66	33.64	33.48	33.33	33.34	33.43		
MAX.		33.48	33.31	33.46	33.61	33.62	33.78	33.81	33.80	33.84	33.69	33.55	33.53		33.84	
MIN.		33.02	33.01	32.95	33.20	33.30	33.34	33.54	33.48	33.46	33.22	33.15	33.13			32.95
RANGE		.46	.30	.51	.41	.32	.44	.27	.32	.38	.47	.40	.40			
STD.DEV.		.10	.08	.12	.10	.08	.10	.06	.08	.09	.12	.11	.10			

SEA WATER SUMMARY: Temperatures STATION: Pacific Grove, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1948	11.60	12.40	11.50	12.50	12.80	13.60	14.80	15.30	14.00	13.00	13.50	11.50			
2		11.80	11.90	11.90	12.20	12.90	13.70	14.50	15.00	14.00	12.80	13.40	11.30			
3		12.10	11.70	11.00	11.70	12.90	13.80	14.40	14.60	14.10	12.90	13.00	11.40			
4		12.00	11.60	11.10	11.90	13.30	14.20	14.70	14.50	12.70	14.00	12.80	11.10			
5		11.90	11.70	11.40	12.00	13.10	13.10	14.90	14.60	12.90	13.50	12.50	10.90			
6		11.90	11.70	10.90	11.80	13.20	13.60	16.00	14.40	13.10	13.70	12.70	11.30			
7		12.30	11.70	10.90	11.60	12.80	14.40	16.30	14.60	13.00	14.00	12.10	11.40			
8		12.40	11.50	10.90	11.90	12.20	14.20	16.30	14.20	13.50	14.10	11.50	11.50			
9		12.10	12.00	10.80	12.20	12.80	14.70	16.10	14.10	13.60	13.80	11.10	11.10			
10		12.10	11.80	10.70	12.50	13.60	14.60	16.00	14.60	13.50	13.80	11.50	11.10			
11		12.00	11.40	10.80	12.10	13.20	14.20	14.40	14.80	13.50	12.10	12.00	11.10			
12		12.10	10.80	10.90	12.50	13.60	14.20	13.10	14.40	14.20	11.90	11.90	11.40			
13		11.60	10.70	11.10	12.80	14.80	14.80	14.10	14.60	14.60	12.20	12.10	10.90			
14		11.10	10.70	10.60	13.20	13.00	14.70	13.90	14.60	15.00	12.70	12.60	11.30			
15		11.10	11.40	10.60	13.00	13.20	15.00	14.80	14.90	14.80	13.30	12.90	11.00			
16		11.20	11.80	10.80	13.00	13.70	14.70	14.70	14.60	14.20	13.50	12.80	10.70			
17		11.20	12.00	10.90	13.40	13.20	14.70	12.70	14.20	13.40	13.80	12.90	10.90			
18		12.00	11.70	11.00	13.48	11.70	14.40	13.70	14.90	13.20	13.50	12.70	10.90			
19		11.90	11.60	11.20	13.00	12.20	14.30	13.00	15.00	13.60	13.60	1250	10.80			
20		11.50	11.80	11.00	13.50	12.20	15.60	13.40	14.60	13.10	13.40	12.40	10.70			
21		11.80	12.10	11.40	13.50	13.20	14.60	13.20	14.20	13.10	13.60	12.20	11.10			
22		12.20	12.00	11.80	13.20	13.10	14.50	13.30	15.60	13.20	13.80	12.00	11.00			
23		12.40	11.60	11.80	13.50	13.70	13.50	13.70	14.70	13.90	13.60	11.70	10.70			
24		12.40	11.70	11.20	13.00	13.90	13.90	14.60	14.70	13.50	14.20	12.00	10.50			
25		12.60	11.80	11.20	13.50	14.40	13.30	14.30	14.10	13.40	13.70	11.80	10.50			
26		11.90	12.00	11.00	13.70	14.50	12.80	14.40	14.90	14.00	13.80	11.70	11.00			
27		11.60	11.80	10.70	14.00	14.10	13.30	14.90	14.60	13.40	13.80	11.50	11.20			
28		11.90	10.60	11.80	14.00	14.00	13.60	14.80	14.40	12.90	13.00	11.40	11.10			
29		12.10	11.20	11.90	12.00	14.40	14.00	13.80	14.80	14.00	13.40	11.60	10.50			
30		12.30		12.40	12.40	13.20	14.40	14.60	14.00	13.00	12.60	11.30	10.90			
31		12.40		12.20		14.00		15.20	14.30		13.00		11.10			
MEAN		11.92	11.61	11.21	12.77	13.32	14.15	14.47	14.60	13.61	13.36	12.20	11.03	12.85		
MAX.		12.60	12.40	12.40	14.00	14.80	15.60	16.30	15.60	15.00	14.20	13.50	11.50		16.30	
MIN.		11.10	10.60	10.60	11.60	11.70	12.80	12.70	14.00	12.70	11.90	11.10	10.50			10.50
RANGE		1.50	1.80	1.80	2.40	3.10	2.80	3.60	1.60	2.30	2.30	2.40	1.00			
STD.DEV.		.38	.44	.46	.64	.73	.64	.93	.38	.57	.58	.61	.27			

SEA WATER SUMMARY — SALINITIES — [illegible]

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1948	33.39	33.37	33.21	33.31	33.27	33.66	33.67	33.57	33.47	33.59	33.40	33.19			
2		33.40	33.30	33.17	33.24	33.30	33.53	33.67	33.53	33.61	33.60	33.26	33.15			
3		33.46	33.41	33.10	33.48	33.40	33.68	33.57	33.39	33.68	33.67	33.30	33.15			
4		33.39	33.51	33.21	33.26	33.37	33.49	33.68	33.51	33.71	33.27	33.31	33.42			
5		33.33	33.41	33.27	33.37	33.42	33.62	33.77	33.54	33.68	33.33	33.42	33.66			
6		33.33	33.17	33.12	33.33	33.46	33.57	33.62	33.51	33.57	33.42	33.49	33.47			
7		33.38	33.46	33.07	33.30	33.44	33.49	33.53	33.57	33.69	33.51	33.49	33.47			
8		33.38	33.26	32.98	33.40	33.40	33.51	33.42	33.49	33.73	33.35	33.47	33.50			
9		33.48	33.42	33.13	33.30	33.48	33.62	33.57	33.71	33.73	33.35	33.41	33.55			
10		33.46	33.33	33.27	33.30	33.51	33.69	33.64	33.75	33.62	33.37	33.54	33.69			
11		33.35	33.40	33.33	33.34	33.53	33.90	33.57	33.75	33.61	33.51	33.58	33.50			
12		33.38	33.40	33.21	33.42	33.70	33.68	33.68	33.61	33.68	33.37	33.44	33.65			
13		33.38	33.37	33.44	33.33	33.57	33.62	33.50	33.58	33.62	33.39	33.57	33.42			
14		33.35	33.38	33.31	33.30	33.58	33.58	33.61	33.78	33.55	33.46	33.44	33.47			
15		33.35	33.14	33.21	33.22	33.70	33.75	33.58	33.67	33.55	33.44	33.55	33.13			
16		33.27	33.37	33.22	33.17	33.66	33.68	33.77	33.75	33.58	33.44	33.49	33.14			
17		33.39	33.42	33.21	33.21	33.62	33.61	33.78	33.69	33.50	33.58	33.49	33.21			
18		33.42	33.28	33.31	33.28	33.66	33.70	33.66	33.75	33.70	33.62	33.34	33.39			
19		33.31	33.35	33.30	33.40	33.70	33.69	33.73	33.77	33.60	33.44	33.30	33.35			
20		33.30	33.18	33.39	33.54	33.50	33.61	33.47	33.86	33.61	33.54	33.39	33.26			
21		33.39	33.15	33.19	33.41	33.60	33.49	33.48	33.86	33.54	33.51	33.44	33.30			
22		33.26	33.31	33.39	33.31	33.62	33.41	33.53	33.77	33.54	33.47	33.49	33.38			
23		33.40	33.33	33.44	33.37	33.67	33.48	33.61	33.66	33.62	33.68	33.46	33.30			
24		33.28	33.31	33.37	33.28	33.67	33.61	33.57	33.80	33.66	33.66	33.40	33.42			
25		33.17	33.30	33.27	33.33	33.84	33.57	33.50	33.71	33.57	33.54	33.31	33.38			
26		33.27	33.22	33.35	33.28	33.66	33.57	33.68	33.75	33.51	33.71	33.39	33.38			
27		33.24	33.21	33.38	33.44	33.64	33.64	33.75	33.75	33.62	33.47	33.30	33.18			
28		33.21	33.30	33.42	33.53	33.60	33.66	33.66	33.61	33.67	33.34	33.33	33.14			
29		33.21	33.26	33.41	33.26	33.55	33.67	33.62	33.66	33.54	33.41	33.47	33.17			
30		33.44		33.28	33.31	33.61	33.60	33.64	33.61	33.46	33.41	33.24	33.22			
31		33.48		33.24		33.58		33.74	33.67		33.39		33.06			
MEAN		33.35	33.32	33.26	33.33	33.56	33.61	33.62	33.67	33.61	33.48	33.42	33.34	33.46		
MAX.		33.48	33.51	33.44	33.54	33.84	33.90	33.78	33.86	33.73	33.71	33.58	33.69		33.90	
MIN.		33.17	33.14	32.98	33.17	33.27	33.41	33.42	33.39	33.46	33.27	33.24	33.06			32.98
RANGE		.31	.37	.46	.37	.57	.49	.36	.47	.27	.44	.34	.63			
STD.DEV.		.08	.09	.11	.09	.13	.10	.09	.11	.07	.11	.09	.14			

SEA WATER SUMMARY: Temperatures STATION: Pacific Grove, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	11.40	10.60	11.50	11.80	12.70	14.10	15.40	16.00	12.90	14.40	12.80	12.90			
2		11.20	10.50	11.50	11.40	13.80	13.60	13.90	16.30	12.80	14.00	13.10	13.00			
3		9.80	10.50	11.40	10.60	12.20	14.10	12.60	15.50	13.30	14.10	13.00	12.40			
4		9.70	10.70	11.50	11.50	12.50	13.20	12.70	15.30	13.00	14.20	12.80	12.20			
5		10.00	10.50	11.60	11.40	13.70	14.50	12.80	15.10	14.10	13.90	12.50	12.30			
6		10.30	10.60	11.80	11.70	13.50	15.60	13.10	15.20	14.90	14.10	12.30	12.20			
7		10.40	10.60	11.70	11.90	13.80	15.60	12.60	16.10	14.10	14.00	12.80	11.90			
8		10.90	10.50	11.90	11.70	13.00	14.10	13.40	14.60	15.20	13.80	13.10	13.50			
9		9.70	10.70	11.80	12.30	12.50	13.80	13.40	13.20	15.20	13.80	12.90	13.40			
10		10.10	10.70	11.70	11.80	12.00	13.00	12.90	14.50	14.70	14.30	13.10	12.40			
11		9.40	10.50	11.50	11.60	12.30	13.00	12.50	13.70	14.90	14.20	13.20	12.80			
12		9.30	10.50	11.70	11.50	12.70	13.20	13.20	14.80	14.90	14.00	13.20	11.80			
13		9.50	10.30	11.90	11.40	13.00	13.80	13.10	13.10	14.80	13.50	13.20	11.50			
14		9.60	10.20	11.80	11.70	12.50	14.00	14.10	12.60	14.80	13.00	13.00	11.50			
15		10.70	10.10	12.20	12.20	13.40	13.70	14.20	13.10	15.10	12.40	13.00	11.90			
16		10.60	10.20	12.00	12.40	13.10	13.80	15.80	13.60	15.60	12.20	12.70	12.00			
17		10.30	10.30	11.80	12.90	12.80	14.40	15.60	13.80	15.30	12.40	12.80	12.00			
18		9.90	10.70	12.10	12.50	13.40	13.80	14.40	13.90	12.20	11.70	13.10	12.20			
19		10.10	10.70	12.10	12.90	12.70	15.00	14.40	14.00	12.70	11.20	13.20	12.00			
20		10.40	10.90	12.80	12.60	13.90	14.30	14.50	14.00	12.30	11.80	13.30	11.80			
21		10.90	10.90	12.60	12.70	14.90	14.30	14.00	14.90	13.40	11.60	13.20	11.50			
22		10.40	11.40	12.80	13.10	14.80	15.10	14.20	13.80	14.30	11.80	13.30	11.20			
23		10.80	11.40	12.40	13.70	14.30	15.10	14.50	13.10	14.20		13.30	10.90			
24		10.30	11.50	12.90	13.30	14.30	14.70	14.10	13.50	14.40	12.40	13.40	11.00			
25		9.80	11.80	12.70	13.00	14.20	14.90	13.10	14.00	13.50	12.00	13.20	11.50			
26		10.00	11.60	12.70	13.10	13.70	15.40	13.60	13.70	13.20	12.00	12.90	11.00			
27		10.00	11.70	13.20	13.00	14.70	14.90	13.40	13.40	14.00	11.90	12.30	10.90			
28		10.30	11.70	12.60	12.80	13.80	14.30	13.20	13.90	14.20	11.50	12.40	10.20			
29		10.20		12.80	12.20	14.70	15.90	13.60	13.80	15.00	11.30	12.90	10.10			
30		10.40		12.20	11.90	13.10	14.10	14.10	13.00	14.50	11.20	12.90	10.60			
31		10.50		12.50		14.00		15.60	13.30		12.30		11.00			
MEAN		10.22	10.80	12.12	12.22	13.42	14.31	13.81	14.15	14.12	12.83	12.96	11.79	12.23		
MAX.		11.40	11.80	13.20	13.70	14.90	15.90	15.80	16.30	15.60	14.40	13.40	13.50		16.30	
MIN.		9.30	10.10	11.40	10.60	12.00	13.00	12.50	12.60	12.20	11.20	12.30	10.10			9.30
RANGE		2.10	1.70	1.80	3.10	2.90	2.90	3.30	3.70	3.40	3.20	1.10	3.40			
STD.DEV.		.53	.44	.43	.68	.74	.75	.85	.91	.87	.86	.29	.89			

SEA WATER SUMMARY: Salinities STATION: Pacific Grove, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	33.12	33.44	33.21	33.41	33.40	33.68	33.77	33.70	33.90	33.69	33.37	33.30			
2		33.26	33.30	33.27	33.51	33.44	33.70	33.67	33.60	33.80	33.70	33.53	33.34			
3		33.21	33.38	33.27	33.48	33.55	33.69	33.70	33.71	33.81	33.67	33.46	33.47			
4		33.28	33.42	33.21	33.47	33.61	33.81	33.73	33.62	33.66	33.62	33.53	33.40			
5		33.28	33.50	33.58	33.39	33.49	33.77	33.77	33.64	33.69	33.75	33.47	33.33			
6		33.34	33.35	33.34	33.41	33.44	33.86	33.66	33.70	33.69	33.71	33.39	33.38			
7		33.31	33.30	33.46	33.54	33.41	33.69	33.67	33.60	33.71	33.61	33.34	33.38			
8		33.30	33.30	33.38	33.42	33.55	33.73	33.71	33.62	33.54	33.73	33.33	33.42			
9		33.27	33.21	33.46	33.47	33.61	33.77	33.77	33.64	33.53	33.61	33.50	33.41			
10		33.38	33.38	33.50	33.21	33.60	33.77	33.74	33.73	33.55	33.57	33.41	33.46			
11		33.26	33.28	33.28	33.30	33.62	33.64	33.77	33.57	33.62	33.75	33.53	33.31			
12		33.27	33.24	33.14	33.46	33.64	33.60	33.42	33.64	33.39	33.67	33.40	33.38			
13		33.30	33.13	33.46	33.34	33.69	33.64	33.58	33.69	33.50	33.69	33.38	33.38			
14		33.22	33.15	33.49	33.50	33.68	33.77	33.68	33.82	33.70	33.58	33.39	33.57			
15		33.31	33.28	33.55	33.54	33.69	33.90	33.62	33.57	33.81	33.67	33.40	33.24			
16		33.21	33.34	33.38	33.69	33.61	33.78	33.60	33.62	33.71	33.47	33.37	33.37			
17		33.24	33.18	33.44	33.75	33.50	33.69	33.68	33.71	33.57	33.68	33.57	33.22			
18		33.19	33.17	33.33	33.74	33.42	33.61	33.66	33.67	33.71	33.67	33.38	33.21			
19		33.26	33.19	33.39	33.55	33.49	33.68	33.57	33.50	33.77	33.48	33.37	33.38			
20		33.26	33.15	33.39	33.46	33.49	33.67	33.71	33.64	33.62	33.40	33.34	33.40			
21		33.33	33.21	33.66	33.33	33.64	33.64	33.64	33.86	33.74	33.44	33.31	33.33			
22		33.38	33.26	33.57	33.30	33.68	33.67	33.74	33.57	33.70	33.51	33.24	33.55			
23		33.30	33.06	33.51	33.37	33.50	33.75	33.75	33.89	33.81		33.38	33.26			
24		33.27	33.11	33.26	33.42	33.48	33.71	33.57	33.82	33.71	33.41	33.40	33.37			
25		33.34	33.06	33.34	33.31	33.61	33.81	33.62	33.68	33.60	33.51	33.38	33.41			
26		33.41	32.99	33.41	33.34	33.68	33.64	33.62	33.60	33.71	33.48	33.53	33.34			
27		33.30	33.07	33.40	33.46	33.66	33.66	33.69	33.69	33.77	33.57	33.57	33.47			
28		33.44	33.22	33.19	33.64	33.62	33.57	33.61	33.58	33.71	33.33	33.54	33.53			
29		33.47		33.39	33.61	33.70	33.58	33.68	33.57	33.64	33.30	33.54	33.37			
30		33.30		33.35	33.30	33.60	33.58	33.61	33.58	33.62	33.51	33.57	33.37			
31		33.47		33.26		33.61		33.60	33.71		33.42		33.14			
MEAN		33.30	33.24	33.38	33.46	33.57	33.70	33.66	33.66	33.68	33.57	33.43	33.37	33.50		
MAX.		33.47	33.50	33.66	33.75	33.70	33.90	33.77	33.89	33.90	33.75	33.57	33.57		33.90	
MIN.		33.12	32.99	33.14	33.21	33.40	33.57	33.42	33.50	33.39	33.30	33.24	33.14			32.99
RANGE		.35	.51	.52	.54	.30	.33	.35	.39	.51	.45	.33	.43			
STD.DEV.		.08	.12	.12	.13	.08	.08	.07	.09	.11	.12	.08	.10			

SEA WATER SUMMARY: TEMPERATURES STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	11.10	10.20	11.50	12.60	11.90	13.50	12.70	15.40	13.00	13.30	14.50	14.00			
2		10.90	10.00	11.60	11.60	11.60	13.40	13.20	16.00	13.00	12.80	14.80	13.30			
3		10.60	10.50	11.90	12.40	10.80	13.60	13.00	15.90	13.60	14.40	14.80	13.60			
4		10.60	10.40	12.20	12.40	11.50	13.90	13.70	15.40	12.80	13.00	15.00	13.60			
5		10.20	10.90	12.50	12.80	11.20	13.60	13.90	15.20	13.60	12.90	15.30	13.80			
6		10.10	11.00	11.40	12.80	11.30	13.80	13.70	15.70	13.40	12.60	15.10	13.90			
7		9.60	11.00	11.90	11.70	11.50	14.00	13.60	15.10	13.00	12.70	14.90	13.80			
8		10.70	10.90	12.20	10.80	11.60	13.50	14.40	15.60	13.40	12.40	14.10	13.80			
9		10.80	10.80	12.20	11.60	11.80	13.80	14.70	15.10	14.20	13.20	13.00	14.00			
10		10.70	11.20	11.90	11.10	12.50	14.10	14.50	15.00	14.20	12.80	13.60	14.00			
11		11.00	11.10	11.60	11.40	13.10	14.00	14.30	14.90	14.10	12.10	12.40	14.40			
12		10.80	11.20	11.30	11.90	11.20	13.90	14.50	14.80	14.40	12.00	12.90	14.30			
13		10.70	11.30	11.40	12.40	10.80	12.80	14.50	15.00	14.50	12.20	13.50	14.00			
14		10.90	11.50	11.90	11.90	10.70	12.90	14.40	15.50	14.90	12.30	13.90	14.10			
15		10.80	11.60	11.80	12.30	10.80	13.60	14.40	16.20	15.10	12.40	13.40	14.00			
16		10.80	11.40	11.60	12.70	10.90	13.80	15.20	15.20	15.10	12.50	13.70	13.90			
17		11.30	11.60	12.50	12.90	11.00	13.60	13.80	14.50	15.00	12.70	13.80	13.70			
18		11.40	11.70	11.50	13.00	11.60	14.40	14.00	14.50	15.00	12.60	14.40	13.50			
19		11.30	11.80	12.50	13.60	11.60	13.60	13.70	14.20	14.50	13.10	14.70	13.20			
20		11.50	11.70	11.70	14.20	12.10	14.00	13.90	14.00	15.00	13.00	15.00	13.50			
21		11.50	11.70	12.10	11.70	12.00	14.00	14.20	13.90	15.50	13.40	14.70	13.40			
22		11.90	12.40	12.20	11.90	12.30	13.90	14.40	13.50	14.80	13.10	14.50	13.00			
23		12.00	12.00	11.90	11.70	11.80	12.90	14.60	13.40	16.00	13.00	14.10	12.90			
24		10.90	12.00	10.90	11.40	11.70	13.10	14.40	13.80	13.90	13.10	14.10	12.70			
25		11.00	12.00	11.40	11.70	13.00	13.70	14.50	13.50	15.10	13.20	14.00	13.00			
26		10.60	11.90	11.70	11.50	12.70	13.40	14.30	13.00	15.40	13.50	14.70	12.90			
27		10.40	11.70	11.80	11.40	12.80	14.20	14.50	13.60	15.70	14.00	14.20	12.50			
28		10.80	11.20	11.80	11.20	13.00	14.40	14.50	12.50	16.20	13.70	14.20	12.40			
29		10.80		12.00	11.40	13.70	14.00	14.50	12.00	15.00	14.00	13.80	12.70			
30		10.60		13.10	11.50	13.70	14.10	14.20	12.10	13.10	14.10	13.90	12.60			
31		10.70		13.00		14.00		15.30	12.40		14.40		12.30			
MEAN		10.87	11.31	11.90	12.05	11.94	13.72	14.18	14.42	14.38	13.05	14.17	13.45	12.95		
MAX.		12.00	12.40	13.10	14.20	14.00	14.40	15.30	16.20	16.20	14.40	15.30	14.40		16.20	
MIN.		9.60	10.00	10.90	10.80	10.70	12.80	12.70	12.00	12.80	12.00	12.40	12.30			9.60
RANGE		2.40	2.40	2.20	3.40	3.30	1.60	2.60	4.20	3.40	2.40	2.90	2.10			
STD.DEV.		.57	.58	.53	.81	.84	.42	.65	1.10	.83	.64	.70	.54			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Pacific Grove, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	33.30	33.16	33.18	33.17	32.99	33.70	33.67	33.78	33.46	33.48	33.47	33.62			
2		33.21	33.11	33.19	33.37	33.15	33.68	33.62	33.70	33.54	33.31	33.40	33.47			
3		33.13	33.21	33.18	33.22	33.26	33.68	33.64	33.69	33.61	33.53	33.48	33.30			
4		33.13	33.19	33.33	33.21	33.50	33.71	33.66	33.84	33.58	33.47	33.49	33.41			
5		33.18	33.39	33.21	33.35	33.49	33.50	33.78	33.64	33.54	33.48	33.39	33.39			
6		33.13	33.38	33.26	32.99	33.39	33.64	33.70	33.71	33.51	33.58	33.60	33.57			
7		33.30	33.30	33.15	33.21	33.24	33.64	33.64	33.74	33.62	33.57	33.57	33.55			
8		33.03	33.37	33.28	32.90	33.57	33.57	33.81	33.67	33.64	33.49	33.47	33.44			
9		33.04	33.46	33.24	33.30	33.53	33.57	33.77	33.64	33.53	33.48	33.62	33.41			
10		33.12	33.41	33.21	33.33	33.48	33.46	33.64	33.55	33.60	33.57	33.57	33.49			
11		33.14	33.40	33.21	33.55	33.24	33.49	33.69	33.57	33.53	33.60	33.57	33.49			
12		33.33	33.47	33.02	33.48	33.55	33.47	33.71	33.70	33.55	33.53	33.51	33.64			
13		33.34	33.33	33.27	33.53	33.71	33.49	33.69	33.68	33.34	33.53	33.38	33.40			
14		33.41	33.39	33.28	33.51	33.57	33.70	33.70	33.73	33.46	33.42	33.57	33.48			
15		33.33	33.44	33.27	33.35	33.66	33.46	33.81	33.78	33.66	33.47	33.60	33.41			
16		33.39	33.54	33.40	33.35	33.64	33.46	33.71	33.67	33.62	33.53	33.66	33.51			
17		33.35	33.37	33.01	33.39	33.53	33.62	33.68	33.75	33.69	33.50	33.40	33.40			
18		33.39	33.30	33.04	33.28	33.50	33.58	33.60	33.42	33.74	33.46	33.30	33.51			
19		33.47	33.35	33.08	33.15	33.54	33.61	33.60	33.61	33.64	33.51	33.41	33.49			
20		33.44	33.41	33.06	33.21	33.55	33.64	33.75	33.66	33.50	33.50	33.41	33.53			
21		33.35	33.40	32.95	33.03	33.61	33.57	33.80	33.70	33.57	33.57	33.37	33.49			
22		33.28	33.42	32.79	33.19	33.51	33.66	33.75	33.77	33.41	33.38	33.30	33.47			
23		33.27	33.28	32.97	33.19	33.55	33.64	33.71	33.67	33.61	33.38	33.37	33.41			
24		33.38	33.35	32.78	33.31	33.57	33.73	33.67	33.57	33.58	33.48	33.42	33.33			
25		33.33	33.38	33.17	33.26	33.57	33.69	33.67	33.66	33.61	33.44	33.37	33.49			
26		33.31	33.38	32.86	33.18	33.57	33.78	33.70	33.49	33.57	33.39	33.46	33.51			
27		33.39	33.33	33.15	33.27	33.69	33.80	33.69	33.69	33.48	33.48	33.35	33.47			
28		33.19	33.30	33.02	33.30	33.62	33.80	33.70	33.62	33.62	33.51	33.46	33.47			
29		33.26		33.10	33.15	33.60	33.74	33.67	33.64	33.44	33.48	33.61	33.49			
30		33.18		33.18	33.26	33.57	33.78	33.66	33.62	33.39	33.50	33.57	33.54			
31		33.34		33.28		33.69		33.82	33.68		33.49		33.50			
MEAN		33.27	33.35	33.13	33.21	33.50	33.63	33.70	33.67	33.55	33.49	33.47	33.47	33.46		
MAX.		33.47	33.54	33.40	33.55	33.71	33.80	33.82	33.84	33.74	33.60	33.66	33.64		33.84	
MIN.		33.03	33.11	32.78	32.90	32.99	33.46	33.60	33.42	33.34	33.31	33.30	33.30			32.78
RANGE		.44	.43	.62	.65	.72	.34	.22	.42	.40	.29	.36	.34			
STD.DEV.		.11	.10	.16	.16	.17	.09	.06	.10	.10	.07	.09	.09			

SEA WATER SUMMARY: Temperatures — STATION: Pacific Grove, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	11.90	10.50	10.60	11.60	12.30	12.20	15.20	13.10	15.50	15.20	12.60	14.50			
2		11.80	10.50	10.80	12.10	12.80	12.60	15.00	13.60	15.60	14.80	13.10	14.50			
3		11.80	10.60	10.80	11.90	12.40	12.80	14.90	13.30	15.40	15.20	13.30	14.30			
4		11.40	10.90	10.90	11.40	12.00	13.40	15.00	13.80	15.30	15.00	13.60	14.10			
5		11.40	11.10	10.80	11.10	12.00	12.90	15.30	14.40	15.40	15.60	13.30	14.00			
6		11.00	11.30	10.90	10.70	12.50	13.00	14.80	14.10	15.00	15.80	13.20	13.80			
7		10.70	11.40	10.90	10.90	12.90	12.50	14.60	13.70	15.50	15.70	13.00	13.60			
8		10.80	11.30	10.70	11.20	13.30	12.90	14.00	13.40	13.60	14.70	13.10	13.20			
9		10.70	11.30	11.30	11.20	13.50	12.90	14.40	13.40	13.30	13.50	13.00	13.00			
10		10.90	11.80	11.00	11.50	14.00	13.10	13.90	13.40	14.50	13.90	12.90	12.20			
11		10.80	12.10	11.60	11.80	13.20	12.80	11.50	13.20	14.70	14.70	13.50	12.60			
12		11.40	12.30	11.00	11.50	14.20	12.10	12.50	13.50	13.50	14.10	13.80	12.40			
13		11.10	12.30	11.30	12.00	14.10	12.00	12.20	13.50	13.80	14.70	14.30	13.20			
14		11.00	12.40	11.40	11.80	14.10	12.20	12.30	13.70	14.10	14.70	14.40	12.70			
15		10.90	12.30	11.90	12.00	13.00	12.10	13.80	14.30	14.60	15.00	14.20	12.40			
16		10.70	12.00	11.70	13.00	12.40	12.60	14.00	14.00	15.00	14.70	13.90	12.50			
17		11.00	12.50	11.20	11.90	12.30	12.80	13.60	13.50	14.80	14.80	13.90	12.20			
18		11.10	12.50	11.40	12.20	11.90	13.00	13.80	13.90	14.50	14.00	13.30	12.30			
19		11.00	12.30	11.50	12.40	12.80	13.40	13.30	14.60	14.70	14.60	13.20	12.20			
20		10.80	12.20	11.40	11.70	11.60	13.50	13.60	14.90	14.50	14.30	13.80	12.40			
21		10.90	12.10	10.60	11.70	11.90	14.10	13.60	14.90	14.10	13.60	13.90	12.20			
22		11.20	12.20	10.90	12.40	11.60	14.70	13.60	15.00	14.30	13.00	13.80	11.60			
23		11.20	11.70	10.80	12.40	12.00	15.00	13.50	15.00	14.50	12.60	13.70	11.80			
24		11.10	11.60	11.20	12.30	12.40	14.90	13.60	15.20	14.70	12.70	13.90	12.10			
25		10.80	11.50	11.50	12.50	13.00	14.80	13.70	15.20	14.70	13.40	13.60	12.00			
26		10.80	11.00	11.30	12.00	13.50	14.90	13.50	15.50	13.30	13.20	13.90	11.90			
27		11.00	10.90	11.20	12.30	13.70	14.90	13.60	15.00	13.30	12.80	14.50	12.20			
28		10.80	10.80	11.50	12.00	11.80	15.10	13.40	15.10	14.20	12.50	14.30	12.80			
29		10.80		12.00	11.90	12.20	15.10	13.40	15.30	14.70	12.60	14.50	12.80			
30		10.30		10.80	11.90	12.30	15.40	13.30	15.30	15.00	12.50	14.60	12.60			
31		10.10		11.10		12.50		13.70	15.10		13.00		12.80			
MEAN		11.01	11.62	11.16	11.84	12.72	13.46	13.76	14.25	14.54	14.09	13.67	12.80	12.91		
MAX.		11.90	12.50	12.00	13.00	14.20	15.40	15.30	15.50	15.60	15.80	14.60	14.50		15.80	
MIN.		10.10	10.50	10.60	10.70	11.60	12.00	11.50	13.10	13.30	12.50	12.60	11.60			10.10
RANGE		1.80	2.00	1.40	2.30	2.60	3.40	3.80	2.40	2.30	3.30	2.00	2.90			
STD.DEV.		.45	.56	.36	.53	.69	.87	.92	.61	.61	.88	.49	.76			

SEA WATER SUMMARY: Salinities — STATION: Pacific Grove, Calif

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	33.47	33.38	33.48	33.40	33.61	33.60	33.67	33.73	33.54	33.73	33.40	33.35			
2		33.44	33.37	33.44	33.41	33.55	33.57	33.73	33.74	33.58	33.55	33.46	33.22			
3		33.53	33.46	33.42	33.37	33.55	33.54	33.77	33.50	33.66	33.71	33.44	33.18			
4		33.55	33.57	33.54	33.33	33.57	33.53	33.77	33.57	33.54	33.66	33.40	33.18			
5		33.33	33.46	33.53	33.55	33.68	33.49	33.73	33.62	33.66	33.66	33.30	33.02			
6		33.31	33.57	33.40	33.37	33.62	33.58	33.73	33.75	33.61	33.62	33.44	33.12			
7		33.53	33.61	33.48	33.41	33.66	33.62	33.71	33.61	33.53	33.74	33.62	33.22			
8		33.40	33.55	33.39	33.57	33.60	33.57	33.74	33.66	33.68	33.62	33.68	33.49			
9		33.61	33.60	33.44	33.57	33.62	33.74	33.64	33.64	33.75	33.62	33.53	33.35			
10		33.46	33.55	33.35	33.57	33.47	33.50	33.57	33.71	33.57	33.66	33.51	33.44			
11		33.31	33.41	33.34	33.55	33.42	33.68	33.67	33.60	33.53	33.64	33.48	33.38			
12		33.41	33.55	33.42	33.37	33.50	33.66	33.71	33.62	33.60	33.73	33.28	33.18			
13		33.39	33.42	33.30	33.50	33.55	33.69	33.62	33.64	33.58	33.66	33.30	33.24			
14		33.31	33.35	33.30	33.39	33.57	33.54	33.64	33.68	33.71	33.53	33.31	33.35			
15		33.51	33.42	33.49	33.37	33.55	33.54	33.66	33.84	33.69	33.47	33.44	33.19			
16		33.57	33.47	33.34	33.46	33.62	33.66	33.48	33.61	33.50	33.48	33.48	33.34			
17		33.57	33.49	33.28	33.48	33.64	33.70	33.49	33.69	33.49	33.51	33.35	33.47			
18		33.57	33.38	33.17	33.24	33.57	33.64	33.74	33.67	33.57	33.69	33.30	33.55			
19		33.50	33.49	33.22	33.40	33.55	33.49	33.75	33.66	33.67	33.57	33.34	33.44			
20		33.47	33.62	33.41	33.31	33.55	33.58	33.67	33.55	33.60	33.44	33.35	33.57			
21		33.54	33.35	33.35	33.30	33.53	33.61	33.71	33.66	33.57	33.39	33.41	33.30			
22		33.53	33.40	33.30	33.42	33.62	33.60	33.89	33.66	33.71	33.47	33.48	33.44			
23		33.46	33.41	33.38	33.30	33.75	33.73	33.75	33.73	33.75	33.66	33.57	33.31			
24		33.55	33.41	33.27	33.33	33.69	33.69	33.82	33.77	33.68	33.44	33.55	33.21			
25		33.48	33.49	33.39	33.34	33.67	33.75	33.74	33.73	33.60	33.54	33.41	33.07			
26		33.50	33.50	33.42	33.57	33.53	33.82	33.74	33.64	33.53	33.54	33.42	33.10			
27		33.58	33.47	33.28	33.48	33.51	33.64	33.75	33.64	33.58	33.46	33.57	33.27			
28		33.30	33.37	33.37	33.30	33.68	33.71	33.74	33.51	33.66	33.51	33.57	33.28			
29		33.31		33.38	33.47	33.60	33.60	33.71	33.39	33.61	33.57	33.44	33.22			
30		33.42		33.31	33.51	33.51	33.73	33.84	33.51	33.61	33.44	33.41	33.30			
31		33.47		33.27		33.55		33.73	33.49		33.49		33.21			
MEAN		33.46	33.47	33.37	33.42	33.58	33.63	33.71	33.64	33.61	33.57	33.44	33.29	33.52		
MAX.		33.58	33.62	33.54	33.57	33.75	33.82	33.89	33.84	33.75	33.74	33.68	33.57		33.89	
MIN.		33.30	33.35	33.17	33.24	33.42	33.49	33.48	33.39	33.49	33.39	33.28	33.02			33.02
RANGE		.28	.27	.37	.33	.33	.33	.41	.45	.26	.35	.40	.55			
STD.DEV.		.07	.07	.09	.08	.07	.08	.10	.10	.07	.09	.10	.14			

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Pacific Grove, Calif

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	12.10	12.70	11.80	12.60	12.60	11.60	13.90	15.00	13.70	13.00	12.30	13.70			
2		11.80	12.30	12.30	12.90	12.40	12.30	14.20	14.20	14.10	13.10	12.20	14.00			
3		11.50	12.50	12.00	12.70	13.00	11.60	14.20	13.10	13.90	13.20	12.20	13.80			
4		11.70	12.30	11.80	12.40	12.80	11.70	14.30	13.70	13.30	13.20	12.00	13.50			
5		11.50	12.50	11.50	13.00	12.90	12.00	14.50	14.00	13.90	13.40	12.50	13.10			
6		11.90	12.30	11.50	12.10	12.90	11.70	13.30	14.30	15.00	13.50	12.20	12.90			
7		12.20	12.40	11.20	12.20	13.50	11.90	13.80	14.00	14.40	13.60	12.30	12.90			
8		12.30	12.30	11.00	12.00	12.80	12.90	14.00	13.90	14.50	13.70	12.50	13.00			
9		12.10	12.20	11.40	12.00	11.90	12.70	13.00	14.10	14.60	14.40	12.80	12.80			
10		11.90	12.30	11.10	12.50	12.10	12.70	13.70	14.30	14.00	14.20	12.80	13.10			
11		12.10	12.10	11.20	12.20	12.30	13.10	14.70	14.10	12.90	14.00	12.70	13.00			
12		12.10	12.00	11.30	12.00	13.00	13.40	15.00	14.50	13.80	14.20	12.60	12.90			
13		12.00	11.80	11.20	12.00	13.50	13.70	15.00	14.70	12.80	14.00	12.80	13.00			
14		11.50	11.70	11.00	11.90	13.80	13.90	15.00	13.70	14.10	13.80	13.50	12.90			
15		12.10	12.60	10.80	11.90	13.50	14.70	15.20	13.50	13.80	13.60	12.40	12.90			
16		12.00	12.90	11.00	12.20	13.20	13.80	14.60	12.70	13.10	13.20	13.20	12.70			
17		12.00	12.30	10.90	12.80	13.00	13.80	14.00	12.30	12.70	13.40	13.10	12.80			
18		11.70	11.80	11.10	12.90	13.00	13.80	14.20	11.50	12.40	13.40	13.00	13.10			
19		11.40	11.60	11.30	12.00	13.80	13.70	14.30	11.70	12.20	13.20	12.90	12.80			
20		12.00	11.80	10.80	12.00	11.60	14.50	14.50	11.40	12.40	13.00	12.80	13.10			
21		12.00	11.50	10.90	12.60	11.60	14.00	15.20	12.20	12.70	13.00	12.70	12.50			
22		11.90	11.70	10.90	12.40	11.50	15.00	15.40	12.70	13.20	13.20'	12.40	12.80			
23		11.80	11.80	11.60	12.10	12.10	15.40	16.30	12.00	13.90	13.00	12.20	12.00			
24		12.00	12.10	11.60	12.50	11.90	14.70	15.70	12.70	13.40	13.00	12.00	12.00			
25		12.20	11.90	11.70	12.10	11.70	13.80	15.20	12.40	13.00	11.50	12.30	11.50			
26		12.10	12.30	12.40	11.40	11.50	13.50	16.30	11.80	13.00	11.90	12.10	11.80			
27		12.20	12.10	13.00	11.60	11.70	12.60	16.00	11.40	12.20	12.50	12.40	12.20			
28		11.90	12.30	13.30	11.40	12.20	12.50	15.80	11.40	12.20	12.30	12.30	12.00			
29		12.00	12.50	12.70	11.50	11.40	13.30	14.60	12.20	12.50	12.70	12.00	12.20			
30		11.90		12.40	12.10	11.80	13.90	14.40	12.70	12.50	12.50	14.10	12.10			
31		12.40		12.90		11.90		14.30	13.90		12.40		12.00			
MEAN		11.95	12.16	11.60	12.20	12.48	13.27	14.66	13.10	13.34	13.20	12.58	12.75	12.77		
MAX.		12.40	12.90	13.30	13.00	13.80	15.40	16.30	15.00	15.00	14.40	14.10	14.00		16.30	
MIN.		11.40	11.50	10.80	11.40	11.40	11.60	13.00	11.40	12.20	11.50	12.00	11.50			10.80
RANGE		1.00	1.40	2.50	1.60	2.40	3.80	3.30	3.60	2.80	2.90	2.10	2.50			
STD.DEV.		.24	.34	.64	.42	.64	.98	.85	.93	.71	.70	.49	.61			

SEA WATER SUMMARY: SALINITIES
DAILY SURFACE

STATION: PACIFIC GROVE, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	33.27	33.15	33.28	33.35	33.53	33.61	33.77	33.66	33.69	33.41	33.64	33.47			
2		33.30	33.28	33.30	33.38	33.41	33.60	33.66	33.55	33.74	33.44	33.66	33.57			
3		33.38	33.47	33.50	33.38	33.39	33.61	33.64	33.64	33.68	33.61	33.54	33.54			
4		33.26	33.35	33.54	33.30	33.47	33.57	33.81	33.67	33.71	33.67	33.57	33.46			
5		33.19	33.40	33.50	33.21	33.44	33.50	33.70	33.81	33.73	33.58	33.54	33.31			
6		33.21	33.53	33.33	33.41	33.48	33.54	33.67	33.50	33.51	33.58	33.54	33.33			
7		33.01	33.48	33.22	33.34	33.39	33.58	33.78	33.64	33.64	33.55	33.49	33.28			
8		33.04	33.34	33.21	33.30	33.40	33.48	33.69	33.54	33.57	33.57	33.57	33.34			
9		33.22	33.30	33.07	33.22	33.47	33.61	33.68	33.66	33.61	33.54	33.51	33.33			
10		33.41	33.44	33.33	33.21	33.55	33.62	33.67	33.68	33.67	33.61	33.41	33.30			
11		33.30	33.46	33.34	33.15	33.58	33.71	33.73	33.62	33.78	33.53	33.58	33.40			
12		33.06	33.39	33.35	33.13	33.50	33.57	33.75	33.66	33.60	33.48	33.51	33.51			
13		33.06	33.38	33.38	33.19	33.38	33.69	33.74	33.68	33.60	33.51	33.55	33.40			
14		32.99	33.30	33.26	33.15	33.48	33.67	33.66	33.75	33.62	33.61	33.58	33.49			
15		32.94	33.37	33.38	33.37	33.51	33.74	33.61	33.77	33.71	33.58	33.58	33.44			
16		32.91	33.46	33.38	33.30	33.54	33.69	33.62	33.73	33.69	33.53	33.57	33.54			
17		32.90	33.37	33.47	33.35	33.51	33.57	33.70	33.68	33.67	33.60	33.46	33.51			
18		33.11	33.38	33.35	33.37	33.42	33.60	33.69	33.69	33.84	33.60	33.53	33.47			
19		33.11	33.40	33.34	33.31	33.51	33.60	33.74	33.71	33.80	33.51	33.54	33.24			
20		32.88	33.41	33.40	33.34	33.51	33.67	33.78	33.68	33.74	33.64	33.51	33.33			
21		33.12	33.40	33.50	33.46	33.64	33.70	33.67	33.51	33.70	33.47	33.42	33.40			
22		33.08	33.33	33.40	33.50	33.57	33.62	33.69	33.55	33.60	33.62	33.47	33.39			
23		33.03	33.27	33.44	33.42	33.55	33.66	33.82	33.57	33.61	33.51	33.46	33.30			
24		33.21	33.33	33.28	33.55	33.57	33.57	33.77	33.61	33.66	33.54	33.50	33.46			
25		33.19	33.48	33.41	33.44	33.50	33.57	33.78	33.57	33.57	33.60	33.46	33.31			
26		33.34	33.50	33.44	33.28	33.57	33.55	33.75	33.74	33.58	33.55	33.37	33.44			
27		33.35	33.35	33.39	33.22	33.57	33.61	33.69	33.74	33.69	33.57	33.40	33.39			
28		33.41	33.46	33.33	33.31	33.57	33.67	33.75	33.64	33.58	33.57	33.46	33.30			
29		33.49	33.50	33.44	33.35	33.54	33.78	33.70	33.53	33.57	33.51	33.50	33.37			
30		33.49		33.39	33.44	33.57	33.70	33.70	33.61	33.54	33.62	33.41	33.37			
31		33.42		33.30		33.70		33.81	33.78		33.57		33.30			
MEAN		33.18	33.39	33.36	33.32	33.51	33.62	33.72	33.65	33.66	33.56	33.51	33.40	33.49		
MAX.		33.49	33.53	33.54	33.55	33.70	33.78	33.82	33.81	33.84	33.67	33.66	33.57		33.84	
MIN.		32.88	33.15	33.07	33.13	33.38	33.48	33.61	33.50	33.51	33.41	33.37	33.24			32.88
RANGE		.61	.38	.47	.42	.32	.30	.21	.31	.33	.26	.29	.33			
STD.DEV.		.16	.08	.10	.10	.08	.07	.05	.08	.08	.06	.07	.08			

SEA WATER SUMMARY: TEMPERATURES — STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	12.10	11.90	9.60	13.00	12.00	13.90	13.00	13.00	14.30	14.40	12.80	12.30			
2		12.10	11.10	9.80	13.00	12.10	13.50	12.70	13.00	14.50	14.00	12.00	12.30			
3		12.00	11.20	9.90	12.40	13.40	13.60	12.20	12.40	14.70	14.00	11.70	12.50			
4		12.00	11.50	9.80	12.20	13.60	13.60	11.60	12.50	14.00	14.30	11.90	12.00			
5		11.70	11.60	10.00	11.30	13.60	13.40	12.50	12.50	13.90	14.40	12.10	11.60			
6		11.90	12.00	10.50	10.50	13.40	14.20	12.60	13.30	14.70	11.90	12.30	11.70			
7		12.30	12.00	10.80	10.20	13.30	13.90	12.90	14.10	15.10	12.50	12.50	11.70			
8		12.70	11.90	10.80	10.40	13.20	13.90	14.00	13.90	15.30	12.60	12.20	11.30			
9		12.70	11.70	10.70	10.10	13.40	13.60	13.90	14.40	15.30	12.80	12.60	11.10			
10		12.70	10.80	10.70	10.10	13.20	13.70	14.40	14.20	15.20	12.20	12.80	11.40			
11		12.60	10.90	10.90	10.40	13.20	13.00	14.40	13.40	15.60	13.50	13.30	11.00			
12		12.70	10.30	10.90	10.40	13.10	13.00	13.00	13.30	15.40	13.60	13.30	11.20			
13		12.60	10.60	10.80	10.80	13.40	12.90	12.50	13.80	15.50	13.70	13.50	11.20			
14		12.40	10.50	10.90	11.10	13.30	13.00	13.20	13.80	15.70	14.20	13.80	12.00			
15		12.40	10.60	10.60	10.80	12.70	13.70	12.80	14.10	16.10	14.10	14.10	12.00			
16		12.30	10.30	11.30	11.40	12.50	13.20	12.30	14.90	16.00	14.00	14.10	11.90			
17		12.50	10.80	11.40	12.20	12.60	12.80	12.40	14.30	16.10	14.10	13.60	12.00			
18		12.70	10.40	11.30	12.60	13.40	13.40	13.20	14.60	16.00	14.50	13.60	12.00			
19		12.60	10.60	11.50	12.40	13.80	12.60	14.60	14.80	16.40	14.50	13.50	12.10			
20		12.80	10.50	11.40	11.10	13.00	12.90	14.20	15.40	16.40	14.20	13.30	12.20			
21		12.50	10.80	11.10	11.60	12.10	13.70	14.00	15.00	16.60	14.00	13.20	11.90			
22		12.50	10.20	12.00	11.50	11.90	13.50	14.60	13.80	16.50	13.60	13.60	11.60			
23		12.60	9.90	12.00	11.10	11.80	13.80	14.80	13.40	16.40	14.00	13.30	11.10			
24		12.50	10.20	11.70	11.70	12.20	14.40	14.10	13.20	16.60	14.10	13.10	11.10			
25		12.50	10.20	11.90	12.00	12.40	14.40	14.20	12.60	16.10	13.80	12.60	11.00			
26		12.40	10.40	11.80	12.00	12.10	13.80	14.10	13.40	16.00	13.70	11.70	11.00			
27		11.70	10.30	12.20	12.10	11.70	13.50	14.70	12.90	15.80	13.00	12.90	11.30			
28		11.80	9.70	12.50	11.10	12.00	13.30	14.70	12.30	16.10	12.70	12.80	11.20			
29		11.80		11.90	11.80	12.20	13.50	14.20	13.90	15.60	12.70	12.50	11.20			
30		12.00		11.90	11.40	13.00	13.40	13.60	12.90	14.70	12.10	12.60	11.10			
31		11.80		12.50		12.50		13.30	13.70		12.90		11.00			
MEAN		12.32	10.82	11.13	11.42	12.78	13.50	13.51	13.64	15.55	13.54	12.91	11.58	12.72		
MAX.		12.80	12.00	12.50	13.00	13.80	14.40	14.80	15.40	16.60	14.50	14.10	12.50		16.60	
MIN.		11.70	9.70	9.60	10.10	11.70	12.60	11.60	12.30	13.90	11.90	11.70	11.00			9.60
RANGE		1.10	2.30	2.90	2.90	2.10	1.80	3.20	3.10	2.70	2.60	2.40	1.50			
STD.DEV.		.28	.61	.76	.79	.53	.46	.77	.77	.72	.68	.66	.38			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Pacific Grove, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	33.38	33.39	33.51	33.58	33.37	33.49	33.70	33.55	33.57	33.60	33.62	33.48			
2		33.31	33.42	33.50	33.46	33.40	33.47	33.71	33.61	33.68	33.60	33.62	33.47			
3		33.37	33.38	33.48	33.47	33.38	33.48	33.66	33.71	33.66	33.46	33.51	33.53			
4		33.50	33.44	33.44	33.41	33.41	33.60	33.60	33.57	33.54	33.57	33.49	33.42			
5		33.48	33.41	33.46	33.55	33.47	33.66	33.60	33.62	33.62	33.55	33.53	33.49			
6		33.31	33.39	33.37	33.53	33.39	33.64	33.73	33.66	33.61	33.62	33.53	33.53			
7		33.37	33.47	33.38	33.46	33.58	33.64	33.57	33.67	33.57	33.62	33.57	33.50			
8		33.34	33.39	33.30	33.46	33.61	33.69	33.57	33.66	33.64	33.58	33.54	33.41			
9		33.46	33.44	33.49	33.42	33.47	33.70	33.75	33.66	33.62	33.51	33.67	33.42			
10		33.39	33.42	33.39	33.51	33.35	33.62	33.70	33.60	33.62	33.55	33.61	33.38			
11		33.40	33.39	33.30	33.46	33.40	33.67	33.68	33.53	33.73	33.57	33.51	33.41			
12		33.40	33.42	33.30	33.28	33.54	33.73	33.66	33.58	33.75	33.51	33.62	33.31			
13		33.27	33.40	33.41	33.38	33.51	33.66	33.60	33.55	33.70	33.55	33.51	33.46			
14		33.28	33.46	33.40	33.42	33.50	33.69	33.58	33.58	33.68	33.60	33.54	33.40			
15		33.19	33.53	33.42	33.47	33.55	33.64	33.61	33.66	33.75	33.51	33.58	33.46			
16		33.28	33.62	33.55	33.38	33.61	33.61	33.55	33.69	33.68	33.62	33.57	33.40			
17		33.42	33.57	33.50	33.46	33.70	33.70	33.61	33.61	33.67	33.62	33.55	33.38			
18		33.41	33.47	33.61	33.44	33.58	33.69	33.64	33.57	33.69	33.62	33.54	33.35			
19		33.40	33.48	33.39	33.58	33.61	33.64	33.61	33.54	33.80	33.51	33.64	33.40			
20		33.50	33.39	33.30	33.57	33.41	33.68	33.69	33.55	33.74	33.55	33.55	33.47			
21		33.54	33.39	33.46	33.40	33.57	33.71	33.67	33.61	33.68	33.57	33.53	33.42			
22		33.34	33.54	33.50	33.39	33.58	33.75	33.66	33.69	33.70	33.62	33.55	33.35			
23		33.46	33.58	33.34	33.42	33.67	33.66	33.66	33.70	33.68	33.57	33.46	33.13			
24		33.49	33.47	33.50	33.55	33.53	33.69	33.70	33.47	33.67	33.54	33.47	33.28			
25		33.42	33.37	33.44	33.55	33.60	33.77	33.74	33.62	33.66	33.58	33.44	33.39			
26		33.35	33.39	33.57	33.50	33.61	33.77	33.66	33.57	33.58	33.46	33.49	33.26			
27		33.41	33.41	33.41	33.58	33.58	33.68	33.62	33.69	33.62	33.57	33.54	33.22			
28		33.40	33.51	33.39	33.51	33.51	33.70	33.57	33.64	33.57	33.57	33.54	33.24			
29		33.40		33.54	33.42	33.61	33.74	33.55	33.66	33.64	33.46	33.57	33.30			
30		33.42		33.41	33.31	33.58	33.71	33.60	33.67	33.66	33.42	33.51	33.50			
31		33.49		33.42		33.57		33.60	33.64		33.49		33.37			
MEAN		33.39	33.45	33.43	33.46	33.52	33.60	33.64	33.62	33.66	33.55	33.55	33.39	33.52		
MAX.		33.54	33.62	33.57	33.58	33.70	33.77	33.75	33.71	33.80	33.62	33.67	33.53		33.80	
MIN.		33.19	33.37	33.30	33.28	33.35	33.47	33.55	33.47	33.54	33.42	33.44	33.13			33.13
RANGE		.35	.25	.27	.30	.35	.30	.20	.24	.26	.20	.23	.40			
STD.DEV.		.08	.06	.07	.08	.09	.08	.05	.06	.06	.05	.06	.10			

SEA WATER SUMMARY: Temperatures — STATION: Pacific Grove, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	11.70	12.00	11.70	12.60	13.40	12.80	13.50	13.50	16.00	13.60	12.70	11.80			
2		12.10	12.20	12.40	12.60	14.20	11.80	13.90	13.20	15.90	14.00	12.50	11.60			
3		12.10	12.10	12.40	12.80	14.40	12.50	13.50	12.70	15.70	14.00	12.60	13.00			
4		12.00	11.80	12.80	13.50	14.30	12.90	13.50	12.70	15.60	14.20	12.70	12.50			
5		11.90	11.70	12.50	12.90	14.30	12.50	14.70	12.90	14.60	14.40	12.80	12.70			
6		11.90	11.30	12.50	13.40	14.30	12.00	14.80	12.80	14.90	14.70	12.80	13.30			
7		12.10	11.70	12.60	12.90	13.50	12.30	15.00	12.80	15.20	13.80	12.80	13.20			
8		12.10	11.60	12.80	13.10	12.90	12.50	14.90	13.00	13.90	13.90	12.60	12.90			
9		12.20	12.20	13.10	13.60	13.00	12.30	13.90	12.90	14.10	14.60	12.90	12.90			
10		12.20	11.90	12.70	13.40	13.50	12.00	14.00	13.20	13.80	14.40	13.40	12.60			
11		12.00	12.10	12.50	13.70	13.60	12.40	13.20	13.10	14.60	14.40	13.60	12.60			
12		11.90	12.00	12.50	13.40	13.50	12.70	13.90	13.40	13.90	14.40	13.20	12.60			
13		11.80	12.20	12.70	13.80	13.50	12.80	14.20	13.60	13.40	14.40	13.00	12.30			
14		11.70	11.90	13.10	13.10	13.30	13.20	12.70	14.40	14.30	14.50	13.10	12.40			
15		11.80	12.00	12.80	14.10	13.70	13.30	12.20	14.50	14.10	14.70	13.00	12.50			
16		11.90	11.90	11.80	14.40	14.20	13.00	11.80	14.50	14.30	14.50	13.00	12.00			
17		12.00	12.50	11.90	14.40	13.70	12.80	12.30	14.30	14.90	14.10	13.00	11.80			
18		12.00	12.40	11.60	12.60	12.90	12.50	12.80	14.10	14.30	13.50	13.10	11.50			
19		12.00	12.20	11.30	12.00	13.60	13.20	13.20	14.60	14.10	12.90	13.10	11.50			
20		11.90	12.40	12.10	12.40	12.60	13.60	12.40	14.90	14.70	12.70	13.10	11.60			
21		11.60	12.60	11.90	12.40	12.30	13.20	12.70	14.80	14.10	12.80	13.10	12.40			
22		11.60	12.60	11.60	13.00	12.50	13.70	12.80	14.10	12.80	12.10	13.10	12.70			
23		12.40	12.60	11.50	13.00	12.80	13.00	13.80	14.20	11.40	11.60	13.00	12.40			
24		11.80	12.30	12.10	12.80	12.40	11.80	13.90	14.70	11.70	12.40	12.70	12.40			
25		11.70	13.00	12.60	13.40	12.00	12.80	13.50	14.00	13.20	12.80	12.80	12.00			
26		11.30	13.20	12.80	14.10	11.50	13.70	13.30	14.70	12.50	11.70	12.80	11.80			
27		11.70	12.70	12.70	13.60	11.90	13.20	13.80	14.70	13.20	10.90	12.90	11.40			
28		11.60	12.10	13.20	13.70	12.80	12.60	14.00	14.30	13.20	11.10	12.80	10.70			
29		12.00		12.60	13.70	12.50	13.70	14.00	15.20	13.20	11.70	12.40	10.90			
30		12.10		12.20	13.40	12.50	13.40	13.70	15.40	13.96	11.80	12.00	11.30			
31		11.90		12.30		12.90		13.40	15.90		11.90		12.20			
MEAN		11.90	12.19	12.36	13.26	13.18	12.81	13.53	13.97	14.05	13.31	12.89	12.18	12.97		
MAX.		12.40	13.20	13.20	14.40	14.40	13.70	15.00	15.90	16.00	14.70	13.60	13.30		16.00	
MIN.		11.30	11.30	11.30	12.00	11.50	11.80	11.80	12.70	11.40	10.90	12.00	10.70			10.70
RANGE		1.10	1.90	1.90	2.40	2.90	1.90	3.20	3.20	4.60	3.80	1.60	2.60			
STD.DEV.		.23	.46	.47	.60	.72	.52	.80	.80	1.20	1.00	.33	.66			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Pacific Grove, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	33.28	33.58	33.34	33.33	33.22	33.64	33.70	33.64	33.66	33.47	33.57	33.40			
2		33.33	33.67	33.41	33.39	33.31	33.61	33.61	33.70	33.68	33.50	33.60	33.36			
3		33.41	33.44	33.33	33.41	33.26	33.61	33.61	33.73	33.68	33.54	33.62	33.41			
4		33.41	33.41	33.48	33.40	33.35	33.69	33.68	33.67	33.70	33.64	33.55	33.49			
5		33.48	33.48	33.44	33.47	33.44	33.67	33.77	33.64	33.74	33.57	33.57	33.47			
6		33.33	33.44	33.40	33.44	33.42	33.57	33.70	33.61	33.69	33.55	33.50	33.46			
7		33.44	33.44	33.40	33.38	33.50	33.68	33.81	33.66	33.57	33.50	33.57	33.40			
8		33.46	33.40	33.42	33.38	33.57	33.64	33.68	33.70	33.68	33.57	33.64	33.48			
9		33.49	33.42	33.40	33.30	33.61	33.70	33.67	33.71	33.73	33.50	33.44	33.47			
10		33.42	33.42	33.44	33.30	33.57	33.69	33.60	33.69	33.57	33.42	33.39	33.44			
11		33.47	33.42	33.42	33.53	33.55	33.67	33.69	33.53	33.55	33.48	33.47	33.49			
12		33.41	33.40	33.46	33.41	33.51	33.61	33.68	33.67	33.66	33.51	33.49	33.44			
13		33.38	33.27	33.54	33.38	33.51	33.68	33.70	33.61	33.74	33.51	33.57	33.47			
14		33.39	33.44	33.54	33.41	33.54	33.71	33.77	33.57	33.61	33.46	33.58	33.49			
15		33.42	33.46	33.35	33.37	33.51	33.77	33.68	33.60	33.57	33.53	33.38	33.53			
16		33.46	33.42	33.33	33.37	33.57	33.70	33.66	33.67	33.64	33.54	33.30	33.47			
17		33.41	33.55	33.35	33.39	33.50	33.71	33.70	33.60	33.66	33.57	33.21	33.44			
18		33.39	33.55	33.39	33.30	33.64	33.70	33.62	33.61	33.62	33.60	33.21	33.42			
19		33.21	33.57	33.17	33.41	33.57	33.80	33.75	33.61	33.69	33.50	33.37	33.41			
20		33.34	33.57	33.37	33.30	33.57	33.77	33.70	33.66	33.68	33.48	33.42	33.42			
21		33.28	33.54	33.40	33.28	33.57	33.64	33.74	33.57	33.68	33.57	33.46	33.38			
22		33.30	33.47	33.38	33.30	33.55	33.62	33.74	33.61	33.57	33.54	33.46	33.44			
23		33.42	33.31	33.37	33.35	33.57	33.60	33.70	33.60	33.68	33.46	33.41	33.35			
24		33.14	33.44	33.26	33.39	33.55	33.64	33.68	33.54	33.62	33.49	33.50	33.41			
25		33.13	33.40	33.34	33.39	33.51	33.67	33.64	33.60	33.74	33.51	33.44	33.41			
26		33.27	33.46	33.37	33.31	33.66	33.81	33.75	33.60	33.74	33.57	33.55	33.35			
27		33.35	33.39	33.31	33.34	33.55	33.75	33.69	33.50	33.68	33.55	33.53	33.35			
28		33.37	33.31	33.33	33.18	33.46	33.71	33.75	33.53	33.49	33.54	33.46	33.38			
29		33.42		33.34	33.21	33.57	33.70	33.73	33.64	33.57	33.41	33.41	33.47			
30		33.40		33.33	33.26	33.66	33.70	33.70	33.64	33.50	33.49	33.39	33.40			
31		33.49		33.35		33.67		33.70	33.66		33.53		33.30			
MEAN		33.37	33.45	33.38	33.36	33.52	33.68	33.70	33.62	33.65	33.52	33.47	33.43	33.51		
MAX.		33.49	33.67	33.54	33.53	33.67	33.81	33.81	33.73	33.74	33.64	33.64	33.53		33.81	
MIN.		33.13	33.27	33.17	33.18	33.22	33.57	33.60	33.50	33.49	33.41	33.21	33.30			33.13
RANGE		.36	.40	.37	.35	.45	.24	.21	.23	.25	.23	.43	.23			
STD.DEV.		.10	.09	.09	.08	.12	.06	.05	.06	.07	.06	.11	.05			

SEA WATER SUMMARY: TEMPERATURES — STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	12.10	12.00	11.00	11.70	11.60	10.70	12.40	12.70	13.00	13.70	11.80	11.40			
2		11.90	11.20	11.00	11.10	11.20	11.50	13.40	13.30	13.20	13.60	12.10	11.40			
3		11.60	11.10	11.30	11.20	11.10	11.60	13.50	12.50	12.30	13.20	12.20	11.00			
4		11.60	11.60	11.20	12.00	11.70	12.10	12.60	12.50	12.40	14.10	11.60	10.90			
5		11.60	11.40	11.30	11.80	11.90	13.20	12.90	13.00	13.00	14.00	11.60	10.80			
6		11.20	11.60	11.40	12.00	12.10	13.60	12.80	13.80	12.80	14.10	11.50	11.60			
7		11.10	11.40	11.50	12.40	12.30	13.90	12.70	14.60	13.10	13.80	11.80	11.30			
8		10.80	10.90	11.50	12.60	12.30	13.70	13.50	14.70	13.40	13.10	11.80	11.30			
9		10.90	11.30	12.00	12.80	12.80	13.50	13.60	14.10	12.90	12.40	11.80	12.00			
10		11.00	11.20	11.90	13.40	13.40	13.30	13.80	14.00	13.20	12.10	12.00	11.70			
11		10.80	10.90	12.40	12.30	13.70	13.00	12.60	14.00	11.50	12.40	12.00	11.90			
12		10.90	11.10	11.90	12.00	13.30	13.50	12.20	12.80	12.50	13.10	11.50	11.80			
13		11.30	11.00	12.10	12.10	13.50	12.80	12.30	13.00	12.40	12.70	11.40	11.80			
14		10.90	10.50	12.00	12.20	13.10	12.80	12.40	13.00	13.00	12.10	11.10	11.70			
15		11.30	10.80	12.40	11.80	12.50	13.30	12.50	13.50	13.00	12.30	10.90	11.40			
16		11.50	11.20	12.40	11.80	12.70	13.50	12.60	13.40	13.10	11.90	10.90	11.70			
17		11.70	11.60	12.70	11.10	13.40	14.20	12.30	12.90	12.90	12.30	10.80	12.00			
18		11.10	11.30	12.50	10.80	13.40	14.50	12.30	13.00	13.0	12.50	11.10	11.90			
19		11.60	10.80	12.50	10.50	13.20	14.20	12.60	13.20	12.50	12.60	11.90	11.80			
20		11.50	11.20	12.10	10.90	13.60	14.40	12.40	12.80	13.00	13.10	11.70	12.10			
21		11.60	11.00	11.60	10.60	11.50	14.70	12.70	12.70	13.20	13.40	12.30	12.30			
22		11.70	10.90	12.20	11.10	11.20	16.40	12.90	12.40	13.10	13.30	12.30	12.40			
23		11.60	11.00	11.60	11.90	11.40	15.10	11.90	12.80	13.50	13.10	11.60	12.60			
24		11.40	10.80	11.90	11.20	12.00	12.90	11.60	12.00	14.0	13.50	11.70	12.40			
25		11.40	11.10	12.70	11.20	12.30	12.90	10.90	12.00	14.0	13.60	11.20	12.00			
26		11.30	10.80	12.60	11.00	12.20	13.00	12.20	12.60	14.50	13.50	11.40	12.60			
27		11.20	10.80	13.00	11.20	12.10	13.30	13.10	12.70	14.30	12.80	11.70	12.20			
28		11.10	10.90	12.90	11.60	11.90	13.90	12.90	12.60	14.40	12.80	11.50	12.10			
29		10.80		11.30	11.90	13.40	13.20	12.20	12.90	14.0	13.60	11.60	11.90			
30		11.50		11.20	11.70	12.30	12.70	12.40	12.60	13.90	12.10	11.50	10.30			
31		11.70		11.30		10.80		12.60	12.70		12.40		11.70			
MEAN		11.34	11.12	11.92	11.66	12.38	13.35	12.61	13.06	13.17	13.01	11.61	11.74	12.25		
MAX.		12.10	12.00	13.00	13.40	13.70	15.40	13.80	14.70	14.50	14.10	12.30	12.60		15.40	
MIN.		10.80	10.50	11.00	10.50	10.80	10.70	10.90	12.00	11.50	11.90	10.80	10.30			10.30
RANGE		1.30	1.50	2.00	2.90	2.90	4.70	2.90	2.70	3.00	2.20	1.50	2.30			
STD.DEV.		.34	.32	.58	.66	.83	1.01	.58	.66	.67	.64	.39	.52			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: PACIFIC GROVE, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	33.22	33.53	33.28	33.41	33.27	33.86	33.82	33.63	33.85			33.39			
2		33.38	33.38	33.38	33.48	33.58	33.88	33.84	33.76	33.81		33.73	33.46			
3		33.44	33.42	33.37	33.44	33.55	33.87	33.79	33.78	33.82		33.73	33.48			
4		33.38	33.44	33.47	33.41	33.54	33.89	33.80	33.66	33.81		33.76	33.42			
5		33.42	33.34	33.38	33.39	33.50	33.89	33.80	33.58	33.80		33.69	33.51			
6		33.47	33.33	33.44	33.44	33.49	33.87	33.81	33.53	33.82		33.67	33.31			
7		33.49	33.34	33.41	33.42	33.44	33.78	33.86	33.54	33.81		33.68	33.47			
8		33.42	33.36	33.48	33.40	33.39	33.58	33.82	33.56	33.80		33.69	33.48			
9		33.40	33.40	33.37	33.40	33.40	33.56	33.80	33.58	33.77		33.68	33.48			
10		33.51	33.41	33.39	33.55	33.53	33.60	33.68	33.58	33.77		33.65	33.49			
11		33.46	33.50	33.33	33.54	33.50	33.64	33.89	33.61	33.81		33.60	33.46			
12		33.50	33.46	33.33	33.47	33.57	33.56	33.87	33.62	33.77		33.62	33.48			
13		33.39	33.47	33.44	33.40	33.54	33.60	33.91	33.66	33.80		33.60	33.48			
14		33.44	33.46	33.40	33.37	33.42	33.63	33.87	33.68	33.77		33.51	33.47			
15		33.33	33.49	33.44	33.34	33.49	33.66	33.86	33.64	33.76		33.62	33.50			
16		33.28	33.27	33.35	33.49	33.53	33.65	33.86	33.65	33.71		33.58	33.48			
17		33.21	33.17	33.34	33.47	33.62	33.62	33.84	33.66	33.75		33.47	33.51			
18		33.26	33.35	33.34	33.48	33.55	33.67	33.74	33.63	33.71		33.44	33.49			
19		33.18	33.53	33.36	33.51	33.48	33.66	33.80	33.64	33.75		33.43	33.51			
20		33.26	33.47	33.46	33.47	33.47	33.62	33.82	33.70	33.71		33.42	33.51			
21		33.30	33.46	33.37	33.50	33.57	33.63	33.69	33.71	33.69		33.43	33.48			
22		33.34	33.38	33.38	33.41	33.44	33.26	33.72	33.72	35.69		33.42	33.46			
23		33.39	33.46	33.37	33.41	33.57	33.55	93.82	33.72	33.64		33.41	32.84			
24		33.44	33.39	33.44	33.42	33.57	33.66	33.84	33.73	33.66		33.46	33.22			
25		33.44	33.34	33.54	33.41	33.60	33.69	33.82	33.76	33.62		33.49	32.72			
26		33.44	33.40	33.49	33.40	33.79	33.69		33.77	33.61		33.48	32.74			
27		33.41	33.37	33.49	33.44	33.83	33.69	33.80	33.73	33.66		33.48	32.93			
28		33.46	33.37	33.44	33.39	33.82	33.70	33.82	33.77	33.64		33.48	32.86			
29		33.46		33.40	33.40	33.85	33.69		33.76	33.67		33.44	32.87			
30		33.31		33.37	33.42	33.84	33.75	33.86	33.78	33.66		33.46	32.03			
31		33.34		33.42		33.86		33.86	33.84				32.83			
MEAN		33.38	33.40	33.40	33.44	33.57	33.68	33.82	33.68	33.74		33.56	33.27			
MAX.		33.51	33.53	33.54	33.55	33.86	33.89	33.91	33.84	33.85		33.76	33.51			
MIN.		33.18	33.17	33.28	33.34	33.27	33.26	33.68	33.53	33.61		33.41	32.03			
RANGE		.33	.36	.26	.21	.59	.63	.23	.31	.24		.35	.48			
STD.DEV.		.09	.08	.06	.05	.15	.13	.05	.08	.07		.11	.35			

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Pacific Grove, California

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	12.00	10.30	11.50	11.30	12.50	12.90	13.00	13.10	13.90	15.20	11.80	12.10			
2		11.90	10.20	11.60	11.70	12.90	12.70	12.50	13.10	14.00	15.20	12.30	12.40			
3		11.80	10.60	11.90	11.70	13.50	13.40	12.20	13.80	14.30	14.80	12.10	12.20			
4		11.70	10.80	11.80	12.40	13.00	13.60	12.40	14.90	14.10	13.40	12.10	12.70			
5		12.00	11.30	11.60	12.00	13.20	12.70	12.70	14.40	14.20	13.80	12.00	12.90			
6		11.80	11.20	11.40	12.30	12.50	13.70	12.80	14.20	14.40	14.60	11.70	12.80			
7		12.10	11.40	11.50	12.40	13.00	13.50	13.10	13.70	14.90	15.10	11.90	12.70			
8		11.80	11.20	11.50	11.70	13.40	14.40	13.90	13.60	15.40	15.60	11.70	11.90			
9		11.60	11.10	11.80	11.80	13.10	14.10	14.30	13.60	16.40	15.70	11.70	11.80			
10		12.00	11.00	11.30	10.80	13.00	15.00	14.00	13.00	16.40	15.70	12.30	11.3			
11		11.70	11.00	11.50	10.00	13.10	12.70	13.40	11.20	15.80	16.10	12.50	12.3			
12		11.80	11.20	10.90	10.60	13.40	12.60	13.30	12.00	15.70	15.80	12.50	12.2			
13		12.00	11.40	11.10	10.90	13.50	12.30	12.80	12.50	15.20	15.60	12.50	12.35			
14		12.00	11.00	11.10	10.90	14.50	12.50	13.00	12.70	15.50	15.40	12.20	12.43			
15		12.30	10.90	11.50	11.50	13.30	12.50	13.40	13.20	16.40	15.90	12.20	12.16			
16		12.00	9.70	11.50	11.90	14.60	12.30	13.40	13.40	16.20	15.60	11.90	12.19			
17		11.90	10.60	12.30	11.40	15.00	11.80	13.40	13.40	15.80	15.90	11.90	11.81			
18		11.90	10.50	11.00	12.20	13.40	11.00	13.50	13.10	16.30	15.70	12.10	11.62			
19		11.90	10.30	11.00	11.80	14.00	11.60	13.60	13.20	15.40	15.40	11.90	11.94			
20		12.20	9.70	11.20	12.20	14.50	11.50	14.30	13.20	15.00	14.50	11.50	11.53			
21		11.90	10.60	11.40	12.60	13.20	11.40	14.10	13.90	14.10	11.80	11.00	12.39			
22		12.00	10.80	11.40	13.00	13.70	12.30	14.10	14.10	15.10	13.90	11.00	12.06			
23		12.10	11.00	11.90	12.50	13.90	12.50	14.30	13.70	14.60	12.50	10.80	11.90			
24		11.90	10.80	11.50	12.40	13.90	12.50	14.20	14.30	14.70	11.50	11.70	11.51			
25		11.20	10.60	11.80	12.40	13.70	12.50	14.20	14.10	14.90	12.10	11.90	11.30			
26		11.50	10.70	12.00	11.90	13.50	12.60	13.80	13.80	15.00	12.10	11.60	11.20			
27		11.50	10.80	11.70	12.40	11.90	14.30	13.20	13.50	15.20	12.50	11.90	11.50			
28		11.30	11.00	12.50	12.20	11.90	14.90	13.80	13.20	14.70	12.50	12.00	11.40			
29		11.10	11.50	12.20	12.60	11.90	14.10	13.40	12.00	15.50	12.40	12.20	11.70			
30		10.60		12.50	12.40	12.50	13.20	13.90	13.10	14.30	11.80	12.20	12.70			
31		10.60		12.10		12.50		13.80	12.90		12.10		12.30			
MEAN		11.75	10.80	11.61	11.86	13.29	12.90	13.48	13.35	15.55	14.20	11.96	12.04	12.73		
MAX.		12.30	11.50	12.50	13.00	15.00	15.00	14.30	14.90	16.40	16.10	12.50	12.90		16.40	
MIN.		10.60	9.70	10.90	10.00	11.90	11.00	12.20	11.20	13.90	11.50	10.80	11.20			9.70
RANGE		1.70	1.80	1.60	3.00	3.10	4.00	2.10	3.70	2.50	4.60	1.70	1.70			
STD.DEV.		.45	.48	.42	.68	.79	1.02	.54	.83	.67	1.18	.44	.43			

SEA WATER SUMMARY: SALINITIES
DAILY SURFACE

STATION: PACIFIC GROVE, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	33.10	33.04	33.42	33.71	33.80	33.48	33.75	33.76	33.73	33.62	33.58	33.49			
2		33.15	32.97	33.40	33.73	33.80	33.61	33.91	33.77	33.71	33.58	33.58	33.53			
3		33.12	33.14	33.40	33.74	33.77	33.60	33.78	33.78	33.60	33.59	33.69	33.51			
4		33.13	32.74	33.43	33.71	33.62	33.64	33.84	33.71	33.71	33.58	33.60	33.49			
5		32.61	32.61	33.42	33.75	33.75	33.68	33.86	33.73	33.69	33.58	33.60	33.47			
6		33.13	32.62	33.37	33.73	33.70	33.68	33.82	33.76	33.68	33.58	33.60	33.48			
7		33.23	32.71	33.39	33.77	33.57	33.69	33.86	33.74	33.66	33.58	33.62	33.50			
8		33.17	32.99	33.39	33.79	33.50	33.67	33.78	33.74	33.69	33.61	33.59	33.53			
9		33.17	32.80	33.37	33.82	33.21	33.69	33.71	33.77	33.69	33.60	33.59	33.54			
10		33.18	33.04	33.42	33.77	33.46	33.67	33.57	33.78	33.74	33.60	33.56	33.52			
11		33.20	33.12	33.42	33.66	33.50	33.71	33.84	33.82	33.69	33.57	33.51	33.49			
12		33.19	33.30	33.49	33.75	33.53	33.80	33.66	33.77	33.69	33.58	33.56	33.48			
13		33.16	33.12	33.45	33.74	33.55	33.85	33.65	33.75	33.70	33.58	33.55	33.51			
14		33.12	33.11	33.62	33.64	33.51	33.78	33.68	33.73	33.70	33.58	33.58	33.52			
15		32.91	33.30	33.51	33.71	33.57	33.85	33.71	33.68	33.69	33.60	33.57	33.53			
16		33.11	33.44	33.57	33.71	33.61	33.82	33.78	33.69	33.74	33.58	33.60	33.52			
17		33.07	33.25	33.37	33.74	33.58	33.89	33.77	33.68	33.73	33.58	33.58	33.53			
18		33.11	33.31	33.63	33.73	33.71	33.89	33.76	33.69	33.73	33.58	33.58	33.53			
19		33.05	33.19	33.45	33.75	33.68	33.70	33.77	33.72	33.42	33.60	33.58	33.53			
20		32.86	33.78	33.45	33.77	33.71	33.68	33.71	33.77	33.67	33.58	33.62	33.54			
21		33.08	33.51	33.58	33.77	33.75	33.78	33.71	33.72	33.72	33.64	33.62	33.57			
22		33.04	33.58	33.46	33.78	33.76	33.77	33.72	33.66	33.73	33.64	33.63				
23		32.87	33.38	33.47	33.77	33.73	33.72	33.73	33.64	33.72	33.57	33.62	33.56			
24		33.04	33.38	33.49	33.74	33.76	33.73	33.77	33.71	33.72	33.62	33.49	33.56			
25		33.42	33.48	33.51	33.78	33.78	33.75	33.73	33.70	33.68	33.59	33.47	33.58			
26		33.07	33.47	33.55	33.73	33.76	33.81	33.68	33.73	33.66	33.58	33.51	33.58			
27		33.17	33.52	33.58	33.68	33.87	33.77	33.73	33.76	33.66	33.57	33.48	33.58			
28		33.14	33.44	33.53	33.72	33.84	33.77	33.73	33.75	33.65	33.62	33.49	33.58			
29		33.15	33.44	33.57	33.69	33.83	33.79	33.75	33.77	33.66	33.63	33.50	33.58			
30		33.07		33.60	33.73	33.78	33.80	33.77	33.70	33.69	33.62	33.48	33.56			
31		33.07		33.63		33.48		33.76	33.72		33.61		33.56			
MEAN		33.09	33.20	33.48	33.74	33.66	33.73	33.75	33.73	33.68	33.59	33.56	33.53	33.56		
MAX.		33.42	33.78	33.63	33.82	33.87	33.89	33.91	33.82	33.74	33.64	33.69	33.58		33.91	
MIN.		32.61	32.61	33.37	33.64	33.21	33.48	33.57	33.64	33.42	33.57	33.47	33.47			32.61
RANGE		.81	1.17	.26	.18	.66	.41	.34	.18	.32	.07	.22	.11			
STD.DEV.		.16	.28	.07	.04	.14	.10	.07	.04	.06	.02	.05	.03			

SEA WATER SUMMARY: TEMPERATURES STATION: PACIFIC GROVE, CALIFORNIA
DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	12.30	11.20	12.60	12.30	13.00	14.60	13.90	14.40	14.90	17.20	14.70	13.60			
2		12.20	11.10	12.60	12.50	13.90	15.10	14.00	15.00	14.80	16.50	14.80	13.30			
3		12.10	11.10	12.80	13.40	14.00	14.80	14.10	14.60	14.30	16.50	14.80	13.40			
4		12.00	11.00	12.80	13.50	14.60	14.50	14.60	15.00	13.40	16.50	13.80	13.40			
5		11.70	10.80	13.00	14.10	14.60	13.70	15.00	14.90	13.70	16.40	13.80	13.60			
6		12.00	11.10	13.10	14.10	14.50	12.00	15.30	15.00	14.20	15.30	14.20	14.00			
7		11.70	11.10	13.50	12.30	14.30	11.90	15.60	15.60	14.00	15.90	13.80	13.70			
8		11.80	11.40	13.30	12.90	14.20	11.90	14.00	16.00	13.50	15.90	14.10	13.70			
9		11.80	11.30	12.60	12.00	13.90	12.30	13.20	15.40	14.70	14.30	14.70	13.50			
10		11.40	11.80	12.90	12.40	14.00	12.60	13.60	14.80	14.60	14.70	14.70	13.30			
11		11.90	11.80	13.10	12.50	14.10	12.70	14.30	15.10	14.90	16.00	14.40	14.20			
12		12.10	12.00	12.60	12.20	14.10	13.40	13.60	15.30	14.90	16.90	14.50	14.60			
13		12.00	12.00	12.90	12.40	14.80	13.00	13.60	13.60	15.20	16.80	14.50	14.50			
14		12.30	12.10	12.90	12.70	14.50	12.40	14.30	11.80	15.60	17.10	14.40	14.20			
15		12.50	12.10	12.80	12.80	15.00	12.00	14.10	12.50	16.00	16.90	14.40	14.30			
16		12.40	12.00	12.50	13.20	15.70	12.40	13.60	13.20	16.00	17.20	14.10	14.20			
17		12.10	12.10	12.10	12.60	15.40	13.10	13.20	13.10	16.10	17.50	13.90	14.30			
18		11.80	12.00	12.60	12.10	15.20	14.30	14.30	12.60	16.10	17.30	14.00	14.30			
19		11.70	11.90	12.90	12.20	14.80	13.60	14.60	13.30	16.60	17.20	13.80	14.20			
20		12.00	11.70	12.80	12.00	14.60	13.60	14.80	12.50	16.60	16.00	13.50	14.20			
21		12.20	12.00	12.80	12.40	14.60	12.20	14.60	12.70	16.50	14.60	13.60	14.40			
22		12.10	12.00	12.90	12.10	14.20	13.40	14.50	13.50	16.90	15.40	12.70	13.90			
23		11.70	12.10	13.30	12.40	14.40	13.40	14.50	13.80	16.50	15.70	13.80	13.80			
24		11.50	12.30	13.70	12.70	14.50	14.00	14.80	13.70	16.80	15.90	13.30	13.90			
25		11.70	12.30	13.80	13.00	14.60	14.60	15.10	13.00	17.00	16.20	13.20	13.70			
26		11.60	12.80	12.90	12.60	14.90	14.50	14.90	12.80	17.50	16.60	12.90	13.70			
27		11.30	12.80	12.50	13.60	15.10	13.50	14.70	13.70	17.10	16.30	12.90	13.60			
28		11.30	12.80	12.80	14.10	14.70	13.40	12.90	13.60	16.90	16.50	13.10	13.40			
29		11.00		12.30	14.10	14.30	13.20	13.20	14.00	17.10	16.30	13.60	13.60			
30		11.00		11.80	12.50	13.70	13.50	13.60	14.70	16.60	16.10	13.80	13.20			
31		10.90		11.70		15.00		13.70	14.40		15.60		13.00			
MEAN		11.81	11.81	12.80	12.77	14.49	13.32	14.20	13.99	15.63	16.24	13.93	13.83	13.74		
MAX.		12.50	12.80	13.80	14.10	15.70	15.10	15.60	16.00	17.50	17.50	14.80	14.60		17.50	
MIN.		10.90	10.80	11.70	12.00	13.00	11.90	12.90	11.80	13.40	14.30	12.70	13.00			10.80
RANGE		1.60	2.00	2.10	2.10	2.70	3.20	2.70	4.20	4.10	3.20	2.10	1.60			
STD.DEV.		.41	.53	.54	.57	.60	.83	.65	.99	1.05	.80	.55	.39			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: PACIFIC GROVE, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	33.55	33.56	33.28	33.43	33.40	33.46	33.47	33.56	33.55	33.59	33.53	33.52			
2		33.56	33.55	33.28	33.48	32.95	33.44	33.48	33.57	33.58	33.59	33.53	33.51			
3		33.55	33.56	33.28	33.39	33.24	33.49	33.45	33.58	33.58	33.59	33.54	33.50			
4		33.55	33.55	33.31	33.46	33.30	33.49	33.49	33.58	33.58	33.60	33.54	33.50			
5		33.51	33.58	33.30	33.49	33.28	33.57	33.46	33.58	33.57	33.62	33.52	33.45			
6		33.56	33.55	33.30	33.53	33.26	33.58	33.46	33.58	33.55	33.60	33.51	33.44			
7		33.54	33.55	33.31	33.68	33.32	33.60	33.48	33.60	33.57	33.60	33.53	33.51			
8		33.54	33.53	33.31	33.64	33.27	33.61	33.56	33.58	33.55	33.59	33.53	33.46			
9		33.53	33.50	33.12	33.74	33.31	33.55	33.59	33.58	33.55	33.56	33.53	33.46			
10		33.54	33.49	33.33	33.68	33.32	33.59	33.57	33.59	33.55	32.94	33.49	33.46			
11		33.47	33.54	33.32	33.60	33.26	33.57	33.49	33.60	33.54	33.32	33.51	33.47			
12		33.46	33.49	33.45	33.48	33.27	33.57	33.58	33.60	33.53	—	33.49	33.49			
13		33.21	33.50	33.39	33.50	33.32	33.42	33.50	33.65	33.52	33.22	33.50	33.46			
14		33.37	33.51	33.40	33.45	33.26	33.44	33.49	33.65	33.51	32.54	33.45	33.46			
15		33.48	33.51	33.42	33.35	33.34	33.48	33.55	33.58	33.52	33.53	33.49	32.81			
16		33.51	33.51	33.30	33.37	33.29	33.48	33.46	33.57	33.56	33.51	33.50	33.37			
17		33.53	33.49	33.32	33.33	33.25	33.48	33.56	33.60	33.55	33.51	33.48	33.46			
18		33.53	33.48	32.38	33.39	33.19	33.48	33.48	33.60	33.53	33.51	33.48	33.39			
19		33.50	33.48	32.44	33.30	33.22	33.48	33.53	33.62	33.53	33.51	33.44	33.37			
20		33.25	33.38	32.56	—	33.26	33.44	33.50	33.66	33.54	33.41	33.84	33.48			
21		33.50	33.31	32.59	33.29	33.30	33.48	33.52	33.60	33.55	33.51	33.48	33.48			
22		33.43	33.42	32.67	33.37	33.38	33.43	33.53	33.60	33.55	33.53	33.52	33.49			
23		33.44	33.16	32.59	33.35	33.31	33.48	33.51	33.60	33.53	33.53	33.51	33.48			
24		33.49	33.43	32.68	33.37	33.35	33.45	33.51	33.58	33.53	32.75	33.51	33.49			
25		33.49	33.44	32.84	33.40	33.35	33.44	33.51	33.61	33.53	33.51	33.52	33.48			
26		33.42	33.40	33.22	33.46	33.32	33.45	33.53	33.60	33.58	33.53	33.50	33.46			
27		33.49	33.33	33.32	33.48	33.36	33.48	33.51	33.54	33.58	33.53	33.50	33.48			
28		33.48	32.97	33.31	33.43	33.33	33.55	33.58	33.55	33.53	33.53	33.51	33.48			
29		33.51		33.37	33.27	33.37	33.51	33.58	33.55	33.58	33.53	33.51	33.47			
30		33.55		33.41	33.51	33.42	33.54	33.58	33.54	33.58	33.53	33.51	33.48			
31		33.57		33.43		33.32		33.54	33.53		33.53		33.49			
MEAN		33.49	33.46	33.14	33.46	33.29	33.62	33.52	33.59	33.55	33.51	33.52	33.45	33.47		
MAX.		33.57	33.58	33.45	33.74	33.42	33.75	33.66	33.66	33.58	33.75	33.84	33.57		33.84	
MIN.		33.21	32.97	32.38	33.27	32.95	33.42	33.45	33.53	33.51	32.94	33.44	32.81			32.38
RANGE		.36	.61	1.07	.47	.47	.33	.21	.13	.07	.81	.40	.76			
STD.DEV.		.09	.14	.28	.12	.09	.09	.05	.03	.02	.16	.07	.12			

SEA WATER SUMMARY: TEMPERATURES STATION: PACIFIC GROVE, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	13.10	13.50	14.20	13.40	13.00	17.60	14.60	16.20	16.60	15.60	14.90	13.10			
2		13.60	13.80	14.20	13.60	11.90	17.40	15.10	16.40	15.00	15.40	15.00	13.40			
3		13.50	13.80	14.00	13.50	12.10	16.20	14.50	16.50	16.00	15.90	15.10	13.30			
4		13.10	14.00	14.20	13.70	12.80	17.50	14.40	17.20	16.80	15.80	15.20	13.30			
5		13.00	14.20	14.30	13.80	12.80	17.20	14.20	16.30	17.00	16.30	15.00	13.20			
6		12.70	14.40	13.80	13.20	12.70	17.80	14.00	15.70	17.00	15.90	15.00	14.00			
7		13.00	14.60	14.00	13.60	13.00	16.20	13.10	15.40	16.50	15.40	15.00	14.40			
8		13.40	14.20	13.70	13.90	12.70	15.90	12.50	15.00	17.00	14.80	15.10	14.00			
9		13.70	14.50	13.80	14.20	12.40	16.40	12.70	15.20	16.80	15.50	14.00	14.00			
10		13.60	14.80	13.70	15.00	13.20	16.30	12.60	15.80	17.30	15.90	13.80	14.00			
11		13.90	14.80	13.40	15.10	13.00	15.30	13.20	16.50	17.70	14.60	13.80	14.00			
12		13.80	15.00	13.50	14.80	12.40	16.90	13.00	16.50	17.00	15.50	13.00	14.10			
13		13.70	14.90	13.30	14.90	13.00	16.60	13.10	17.00	17.20	15.00	13.40	13.70			
14		13.70	14.70	13.60	14.40	14.00	17.00	13.00	16.80	17.00	15.50	13.10	13.90			
15		13.50	14.80	12.80	14.90	14.10	17.60	13.10	15.90	16.10	15.30	12.80	14.00			
16		13.50	14.60	13.30	14.90	13.30	17.50	12.90	15.70	17.40	15.90	12.70	14.10			
17		13.40	14.70	13.50	15.80	14.30	17.50	14.20	15.80	14.80	16.10	12.30	14.40			
18		13.30	14.40	13.10	15.50	14.80	17.80	14.00	15.70	15.20	15.80	12.10	14.20			
19		12.80	14.40	13.80	16.50	13.50	18.10	14.30	15.90	14.30	16.10	12.20	14.10			
20		12.80	14.70	13.40	16.90	13.90	17.80	14.20	16.20	14.40	15.10	12.50	14.00			
21		12.90	14.50	13.50	15.70	14.80	17.00	13.80	15.80	13.30	15.00	12.60	14.20			
22		12.70	14.70	13.80	14.20	15.20	17.80	13.20	14.20	14.10	15.00	13.00	14.00			
23		12.40	14.60	13.60	13.00	15.00	17.00	13.20	15.00	13.90	14.30	12.20	14.20			
24		13.00	14.70	13.80	13.40	15.80	17.20	14.00	15.50	12.90	13.70	12.50	14.40			
25		13.50	14.50	13.60	13.00	15.20	17.20	14.60	15.70	14.40	14.00	12.20	14.30			
26		13.20	14.10	13.90	13.80	15.30	17.20	14.70	15.80	13.20	15.10	13.00	14.30			
27		13.40	14.30	13.40	13.70	15.50	15.90	15.10	15.90	13.50	14.90	13.50	14.20			
28		13.40	14.20	13.80	13.60	15.90	14.50	15.20	16.20	14.50	14.80	13.30	14.30			
29		13.60		14.10	13.00	15.90	14.20	15.60	16.00	14.90	14.80	13.20	14.10			
30		13.40		13.60	12.50	15.80	13.10	15.70	17.20	15.70	14.70	13.40	14.00			
31		13.60		13.70		16.80		16.20	16.80		14.60		14.00			
1-10 MEAN		13.27	14.18	13.99	13.79	12.66	17.05	13.77	15.97	16.60	15.65	14.81	13.69			
11-20 MEAN		13.44	14.70	13.31	15.37	13.63	17.21	13.50	16.20	16.11	15.49	12.79	14.05			
21-31 MEAN		13.19	14.45	13.71	13.59	15.56	16.11	14.66	15.83	14.07	14.63	12.89	14.18			
MON. MEAN		13.30	14.44	13.67	14.25	14.00	16.79	14.00	15.99	15.58	15.24	13.50	13.97	14.56		
MAX.		13.90	15.00	14.30	16.90	16.80	18.20	16.20	17.20	17.70	16.30	15.20	14.40		18.20	
MIN.		12.40	13.50	12.80	12.50	11.90	13.10	12.50	14.20	12.90	13.70	12.10	13.10			11.90
RANGE		1.50	1.50	1.50	4.40	4.90	5.10	3.70	3.00	4.80	2.60	3.10	1.30			
STD. DEV		.35	.36	.36	1.08	1.18	1.23	.92	.70	1.23	.64	.82	.34			

SEA WATER SUMMARY: SALINITIES — STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.50	33.59	32.97	32.78	33.40	33.38	33.58	33.44	33.39	33.49	33.46	33.42			
2		33.50	33.44	33.08	32.79	33.54	33.35	33.49	33.48	33.42	33.45	33.46	33.45			
3		33.53	33.45	33.11	32.62	33.32	33.22	33.48	33.46	33.43	33.40	33.44	33.42			
4		33.53	33.50	33.09	32.70	33.43	33.21	33.47	33.55	33.44	33.46	33.41	33.42			
5		33.57	33.49	33.12	32.59	33.41	32.98	33.47	33.58	33.42	33.42	33.43	33.45			
6		33.55	33.49	33.17	32.39	33.44	33.22	33.55	33.57	33.43	33.44	33.40	33.47			
7		33.55	33.51	33.06	32.45	33.46	33.40	33.66	33.56	33.30	33.42	33.44	33.47			
8		33.56	33.49	33.04	32.18	33.43	33.46	33.57	33.59	33.35	33.42	33.43	33.47			
9		33.59	33.49	33.07	29.11	33.46	33.39	33.60	33.53	33.25	33.53	33.48	33.51			
10		33.58	33.51	33.16	30.36	33.49	33.42	33.65	33.46	33.39	33.42	33.45	33.49			
11		33.57	33.48	33.18	31.55	33.54	33.37	33.60	33.46	33.40	33.48	33.46	33.49			
12		33.54	33.19	33.25	32.04	33.34		33.59	33.40	33.41	33.49	33.51	33.48			
13		33.56	33.52	33.30	32.11	33.46	33.44	33.57	33.42	33.40	33.43	33.44	33.61			
14		33.57	33.49	33.02	32.53	33.41	33.46	33.65	33.52	33.43	33.49	33.44	33.51			
15		33.58	33.52	32.30	32.39	33.45	33.45	33.64	33.48	33.44	33.53	33.47	33.47			
16		33.57	33.53	32.39	32.57	33.46	33.40	33.58	33.44	33.41	33.46	33.53	33.47			
17		33.57	33.51	32.54	31.85	33.46		33.57	33.22	33.47	33.46	33.46	33.46			
18		33.58	33.30	32.34	32.05	33.44	33.39	33.53	33.18	33.51	33.40	33.48	33.48			
19		33.58	33.10	32.54	32.45	33.46	33.33	33.51	33.35	33.50	33.48	33.49	33.48			
20		33.58	33.38	32.27	32.08	33.41	33.19	33.49	33.25	33.49	33.48	33.45	33.53			
21		33.68	33.37	32.62	32.56	33.25		33.55	33.35	33.51	33.49	33.45	33.42			
22		33.56	33.39	32.51	33.01	30.82	33.26	33.53	33.41	33.50	33.53	33.46	33.46			
23		33.55	33.40	32.60	33.38	32.92	33.44	33.58	33.40	33.49	33.46	33.51	33.46			
24		33.22	33.37	32.34	33.28	33.06	33.48	33.58	33.50	33.48	33.57	33.48	33.43			
25		33.57	33.39	32.39	33.39	33.31	33.48	33.61	33.40	33.49	33.53	33.49	33.45			
26		33.51	33.42	32.51	33.25	33.26	33.50	33.57	33.38	33.50	33.48	33.44	33.42			
27		33.58	33.19	30.77	33.33	33.39	33.54	33.51	33.39	33.51	33.48	33.45	33.42			
28		33.53	32.96	32.71	33.28	33.35	33.58	33.60	33.39	33.46	33.48	33.44	33.41			
29				32.47	33.35	33.33	33.60	33.58	33.40	33.46	33.44	33.46	33.42			
30		33.53		32.50	33.44	33.39	33.60	33.48	33.37	33.42	33.48	33.42	33.42			
31		33.56		32.73		33.34		33.49	33.33		33.45					
1-10 MEAN		33.55	33.50	33.09	32.00	33.44	33.30	33.55	33.52	33.39	33.44	33.44	33.46			
11-20 MEAN		33.57	33.40	32.71	32.16	33.44	33.38	33.57	33.37	33.45	33.47	33.47	33.50			
21-31 MEAN		33.52	33.31	32.38	33.23	33.04	33.50	33.55	33.39	33.48	33.49	33.46	33.43			
MON. MEAN		33.54	33.41	32.71	32.46	33.30	33.39	33.56	33.43	33.44	33.47	33.46	33.46	33.30		
MAX.		33.59	33.59	33.30	33.44	33.54	33.60	33.66	33.59	33.51	33.57	33.53	33.61		33.66	
MIN.		33.22	32.96	30.77	29.11	30.82	32.98	33.47	33.18	33.30	33.40	33.40	33.41			29.11
RANGE		.37	.63	2.53	4.33	2.72	.62	.19	.41	.21	.17	.13	.20			
STD. DEV		.06	.15	.48	1.00	.45	.14	.05	.10	.05	.04	.03	.04			

SEA WATER SUMMARY · TEMPERATURES STATION: PACIFIC GROVE, CALIFORNIA

SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	13.80	13.60	14.40	13.00	13.70	12.70	12.50	14.70	14.50	13.00	14.00	13.20			
2		13.70	13.00	14.30	13.00	13.40	12.90	11.80	14.90	13.60	14.40	13.20	13.20			
3		13.50	12.90	14.40	12.00	12.90	12.20	11.70	14.70	14.10	14.70	13.20	14.20			
4		13.40	12.80	13.90	11.80	13.30	13.00	12.00	14.90	14.50	15.00	14.10	13.90			
5		13.30	12.90	13.90	12.10	13.10	13.20	12.50	15.30	14.40	14.70	13.60	14.00			
6		13.40	12.70	13.80	12.50	13.40	13.10	13.50	15.10	14.70	14.90	13.50	14.00			
7		13.30	12.40	13.80	12.90	14.30	12.90	12.80	14.90	14.50	14.80	13.20	13.50			
8		13.40	12.30	13.70	13.40	13.80	12.50	13.10	15.90	13.50	15.40	13.20	13.60			
9		13.60	12.20	13.60	13.20	13.30	12.10	13.60	15.30	13.90	16.40	13.60	14.10			
10		13.90	12.40	13.70	13.80	12.50	11.50	15.00	15.40	14.30	16.50	14.00	14.00			
11		14.00	11.90	13.90	13.90	13.00	12.10	14.50	15.50	14.90	15.70	14.40	14.10			
12		14.10	12.00	14.20	13.80	13.40	12.40	12.20	15.90	14.80	15.30	14.20	14.20			
13		14.00	12.20	13.70	14.20	12.40	13.30	13.00	15.90	14.70	14.60	14.00	13.80			
14		13.90	12.50	12.70	13.40	13.30	13.20	13.20	15.80	15.00	14.70	14.00	13.30			
15		13.70	12.40	13.20	13.60	12.80	11.20	12.60	15.70	14.00	14.50	13.80	13.60			
16		13.40	13.50	13.60	13.70	12.40	11.60	13.30	15.80	14.40	13.90	13.20	13.50			
17		13.60	13.10	14.30	13.60	12.50	11.70	14.10	15.00	13.90	14.90	12.70	13.30			
18		13.40	13.40	14.00	12.90	12.30	11.80	14.40	14.80	14.10	14.50	13.50	13.00			
19		13.60	13.40	13.80	12.50	12.50	11.80	14.90	15.30	15.00	14.60	13.90	12.90			
20		13.20	13.50	13.00	12.70	12.90	11.60	15.00	15.30	15.30	14.50	13.90	13.30			
21		13.10	13.00	13.40	12.80	13.30	11.70	14.80	16.00	15.40	14.80	14.00	13.60			
22		13.10	13.10	13.50	12.80	12.80	11.90	14.90	16.00	15.70	15.10	13.60	13.50			
23		12.90	13.50	12.70	12.40	12.80	13.20	16.00	16.20	15.80	15.10	13.90	14.10			
24		13.10	13.40	12.50	12.60	13.20	12.70	15.90	14.50	15.50	15.10	13.80	14.20			
25		13.50	13.80	12.60	13.40	12.90	12.60	16.20	14.60	14.60	15.00	13.40	13.60			
26		13.60	13.90	12.80	12.80	13.70	13.30	16.00	14.90	14.40	15.20	13.40	13.80			
27		13.60	13.80	12.90	13.10	12.60	12.70	14.70	15.60	15.60	15.00	13.10	13.30			
28		13.50	13.90	13.00	13.60	12.80	13.00	14.40	15.40	13.60	15.10	13.30	13.50			
29		13.40		13.60	13.40	12.90	12.40	14.20	15.90	14.80	15.00	13.40	13.30			
30		13.20		13.30	13.80	12.80	12.40	15.00	15.60	14.70	14.50	13.60	13.80			
31		13.40		13.30		13.00		14.60	15.40		14.30		12.70			
1-10 MEAN		13.53	12.72	13.95	12.77	13.37	12.61	12.85	15.11	14.20	15.00	13.56	13.77			
11-20 MEAN		13.69	12.79	13.64	13.43	12.75	12.07	13.72	15.50	14.61	14.72	13.76	13.50			
21-31 MEAN		13.31	13.55	13.05	13.07	12.98	12.59	15.15	15.46	15.01	14.93	13.55	13.58			
MON. MEAN		13.50	12.98	13.53	13.09	13.03	12.42	13.95	15.26	14.61	14.88	13.62	13.62	13.72		
MAX.		14.10	13.90	14.40	14.20	14.30	13.30	16.20	16.20	15.80	16.50	14.40	14.20		16.50	
MIN.		12.90	11.90	12.50	11.80	12.50	11.20	11.70	14.50	13.50	13.00	12.70	12.70			11.20
RANGE		1.20	2.00	1.90	2.40	2.00	2.10	4.50	1.70	2.30	3.50	1.70	1.50			
STD. DEV.		.28	.54	.50	.59	.46	.53	1.15	.42	.60	.81	.38	.38			

SEA WATER SUMMARY: SALINITIES STATION: PACIFIC GROVE, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	33.46	33.46	33.24	33.62	33.57	33.84	33.84	33.77	33.66	33.64	33.62	33.68			
2		33.48	33.42	33.28	33.66	33.58	33.88	33.80	33.83	33.65	33.60	33.67	33.76			
3		33.49	33.48	33.08	33.69	33.62	33.84	33.79	33.80	33.64	33.61	33.70	33.69			
4		33.52	33.44	33.21	33.64	33.62	33.80	33.75	33.85	33.62	33.64	33.71	33.69			
5		33.46	33.42	32.84	33.64	33.61	33.80	33.73	33.74	33.65	33.64	33.73	33.70			
6		33.48	33.20	33.17	33.64	33.62	33.85	33.72	33.78	33.66	33.61	33.73	33.68			
7		33.49	33.46	33.15	33.59	33.60	33.86	33.66	33.55	33.68	33.68	33.72	33.66			
8		33.47	33.41	33.22	33.54	33.66	33.86	33.65	33.78	33.69	33.60	33.69	33.68			
9		33.44	33.49	33.31	33.48	33.64	33.81	33.68	33.67	33.68	33.55	33.73	33.69			
10		33.18	33.35	33.31	33.51	33.72	33.86	33.70	33.70	33.62	33.58	33.72	33.66			
11		33.35	32.99	33.25	33.51	33.71	33.84	33.67	33.76	33.63	33.60	33.66	33.71			
12		32.77	33.37	33.25	33.51	33.66	33.86	33.78	33.73	33.68	33.61	33.68	33.69			
13		33.30	33.44	33.19	33.53	33.64	33.87	33.78	33.77	33.66	33.66	33.69	33.71			
14		33.30	33.28	33.44	33.53	33.62	33.91	33.68	33.72	33.62	33.68	33.68	33.67			
15		33.28	33.53	33.31	33.57	33.64	33.90	33.68	33.83	33.64	33.68	33.63	33.71			
16		33.29	32.32	33.33	33.54	33.66	33.91	33.71	33.74	33.66	33.62	33.66	33.72			
17		33.31	33.42	33.21	33.57	33.72	33.94	33.57	33.78	33.65	33.62	33.68	33.71			
18		33.37	33.30	33.29	33.62	33.68	33.85	33.69	33.78	33.58	33.64	33.65	33.66			
19		33.36	33.28	33.30	33.63	33.75	33.94	33.64	33.68	33.40	33.64	33.65	33.69			
20		33.39	33.37	33.49	33.69	33.71	33.86	33.57	33.62	33.57	33.68	33.66	33.68			
21		33.37	33.08	33.42	33.68	33.77	33.87	33.42	33.68	33.53	33.60	33.66	33.64			
22		33.15	33.31	33.50	33.67	33.66	33.84	33.33	33.68	33.51	33.60	33.60	33.66			
23		33.34	33.31	33.53	33.76	33.68	33.84	33.41	33.68	33.58	33.63	33.68	33.63			
24		33.40	33.37	33.55	33.67	33.71	33.78	33.53	33.69	33.55	33.60	33.62	33.61			
25		33.35	33.29	33.64	33.57	33.43	33.66	33.60	33.66	33.61	33.48	33.65	33.53			
26		33.44	33.31	33.58	33.39	33.66	33.67	33.66	33.66	33.64	33.43	33.68	33.62			
27		33.42	33.31	33.58	33.40	33.75	33.78	33.58	33.71	33.52	33.47	33.68	33.66			
28		33.43	33.42	33.58	33.46	33.80	33.84	33.69	33.73	33.65	33.52	33.69	33.67			
29		33.14		33.54	33.53	33.78	33.82	33.75	33.67	33.63	33.58	33.62	33.65			
30		33.42		33.49	33.56	33.77	33.81	33.66	33.78	33.61	33.61	33.67	33.62			
31		33.19		33.57		33.81		33.77	33.53		33.58		33.69			
1-10 MEAN		33.45	33.41	33.18	33.60	33.62	33.84	33.73	33.75	33.66	33.62	33.70	33.69			
11-20 MEAN		33.27	33.23	33.31	33.57	33.68	33.90	33.68	33.74	33.61	33.64	33.66	33.70			
21-31 MEAN		33.33	33.30	33.54	33.57	33.71	33.79	33.58	33.68	33.58	33.55	33.66	33.63			
MON. MEAN		33.35	33.32	33.35	33.58	33.67	33.84	33.66	33.72	33.62	33.60	33.67	33.67	33.59		
MAX.		33.52	33.53	33.64	33.78	33.81	33.95	33.84	33.85	33.69	33.68	33.73	33.76		33.85	
MIN.		32.77	32.32	32.84	33.39	33.43	33.66	33.33	33.53	33.40	33.43	33.60	33.53			32.32
RANGE		.75	1.21	.80	.39	.38	.29	.51	.32	.29	.25	.13	.23			
STD. DEV.		.15	.24	.18	.09	.08	.08	.12	.08	.06	.06	.05	.05			

SEA WATER SUMMARY: SURFACE TEMPERATURES

STATION: UNION OIL DOCK, PORT SAN LUIS AYILA, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	11.90	11.10	10.40	10.56	—	12.60	16.20	13.40	15.10	14.70	12.00	13.00			
2		12.00	11.40	10.50	10.40	—	12.80	14.60	14.00	13.50	14.20	11.70	13.00			
3		12.00	11.10	10.60	10.50	—	12.80	15.20	13.70	14.50	14.40	11.90	13.00			
4		—	11.00	10.40	10.80	—	12.80	15.60	13.40	15.40	15.70	12.10	13.00			
5		12.10	11.20	10.20	10.90	—	12.00	14.80	13.80	15.20	15.60	11.50	12.80			
6		11.80	11.00	10.20	10.80	—	11.80	14.30	14.30	15.60	14.90	11.80	13.20			
7		11.80	11.00	9.50	10.80	13.60	11.80	14.00	14.60	15.60	15.00	11.80	12.80			
8		12.00	11.20	9.50	10.90	13.60	12.20	14.00	14.00	15.60	15.20	11.80	12.60			
9		12.00	10.80	9.50	10.80	13.80	12.50	14.40	13.80	15.80	15.20	12.50	13.00			
10		12.10	11.00	10.00	10.60	13.80	12.20	13.50	13.00	15.00	15.20	12.50	13.00			
11		11.80	11.00	10.00	10.60	12.50	13.20	13.30	13.10	14.50	15.00	12.60	13.00			
12		11.80	11.10	9.90	10.70	13.20	13.50	13.30	13.00	14.00	15.00	14.20	13.00			
13		11.80	11.40	9.80	12.90	13.40	13.90	13.00	13.80	13.60	15.20	13.00	13.20			
14		12.00	11.20	9.80	11.20	13.20	13.40	13.20	14.00	13.60	14.00	13.00	13.40			
15		12.00	11.40	9.90	11.10	13.40	13.00	13.10	14.50	13.80	14.10	12.80	13.00			
16		11.11	11.20	10.60	11.30	13.70	12.50	12.00	14.00	15.10	14.40	12.60	13.00			
17		11.89	10.30	10.90	11.20	14.20	12.60	13.00	—	—	14.50	12.80	13.00			
18		11.78	10.20	11.10	11.40	12.00	12.40	13.50	14.60	—	14.40	12.80	12.80			
19		11.67	10.40	—	12.10	11.50	12.30	13.90	14.20	—	14.50	12.20	12.80			
20		10.90	10.20	10.89	12.40	12.50	12.20	14.50	14.50	—	14.20	11.80	12.80			
21		10.80	10.50	11.39	12.50	11.00	12.40	14.50	14.50	13.00	13.80	11.90	12.80			
22		10.50	10.30	—	11.50	12.50	12.80	14.80	15.40	13.40	13.80	—	12.80			
23		10.90	11.20	12.22	13.33	11.50	13.00	15.10	15.00	13.80	13.60	11.60	12.60			
24		10.80	11.00	—	12.78	11.30	13.00	15.40	15.60	13.80	12.80	11.80	12.40			
25		12.50	11.10	—	12.78	11.30	13.20	14.60	15.80	13.60	13.00	11.40	12.40			
26		11.30	10.80	—	13.33	11.50	14.40	15.30	15.60	14.00	13.00	12.00	12.50			
27		11.11	10.60	11.67	12.22	11.60	14.60	14.80	15.40	14.00	13.00	12.10	12.50			
28		11.17	10.50	12.78	12.22	11.80	15.00	14.80	15.40	14.50	—	12.50	12.60			
29		11.11	10.80	12.22	12.22	12.00	16.90	14.60	15.00	15.00	12.60	12.70	12.50			
30		11.00		—	11.94	12.40	16.40	14.60	14.80	15.00	13.00	12.80	12.60			
31		11.20		12.22		12.40		14.80	14.80		12.60		12.60			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		11.56	10.84	10.64	11.56	12.54	13.14	14.28	14.36	14.46	14.22	12.28	12.82	12.73		
MAX.		12.50	11.40	12.80	13.30	14.20	16.90	16.20	15.80	15.80	15.70	14.20	13.40		16.90	
MIN.		10.50	10.20	9.50	10.40	11.00	11.80	12.00	13.00	13.00	12.60	11.40	12.40			9.50
RANGE		2.00	1.20	3.30	2.90	3.20	5.10	4.20	2.80	2.80	3.10	2.80	1.00			
STD. DEV.		.45	.33	.86	.79	.82	1.32	.92	.74	.71	.83	.59	.24			

SEA WATER SUMMARY: Salinities — STATION: Avila, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	32.7	33.4	33.7	34.1			35.0	34.6		33.8	34.4	34.1			
2		32.8	33.3	33.7	34.2			34.9	34.6	34.1	34.1	34.2	34.2			
3		32.9	33.3	33.6	33.8			34.4	34.4	34.0	34.2	34.4	34.5			
4			33.2	33.7	33.8			34.0	34.6	34.2	34.4	34.4	34.1			
5		33.0	33.3	33.7	34.1			34.4	34.1	34.4	33.8	34.4	34.4			
6		32.9	33.3	33.6	34.1				34.2	34.4	34.0		34.1			
7		33.0		34.0	34.1			34.2	34.5	34.4	33.8	34.4				
8			32.9	34.0	34.1			34.4	34.6			34.2	34.1			
9		32.9	32.9	33.6	34.0			34.4	34.1	34.4	34.0	34.2	34.1			
10		33.0	32.8	34.0				34.7	34.4	34.5	34.0	34.4				
11		33.2	32.7	33.7	34.0			34.6	34.7	34.6	34.0	34.4	34.1			
12		33.2	33.2	33.7				33.7	34.5	34.6	34.1	34.4	34.1			
13		33.2	32.9	33.7				34.5	34.5	34.9		34.6				
14		33.0	32.8	34.0	33.6			34.7	34.4	34.9	34.6	34.2	34.1			
15		33.2	32.7	33.7	33.8			34.7	34.2	34.6	35.4	34.2	34.1			
16		33.2	32.8	34.0	33.6				34.7	34.0	33.8	34.2	34.4			
17		33.0	33.3	34.5	33.8			35.0		34.7	34.1	34.0				
18		33.4	33.4	33.7	33.8			35.1	35.0	34.6	34.9	33.6	34.4			
19		33.2	34.1		33.6			35.3	34.6	35.0	34.9	33.7	34.4			
20		33.8	34.4	33.6	33.6			35.1	34.2	35.0	34.5	34.0	34.4			
21		33.6	31.6	33.6	34.2			35.6	34.1	34.6	34.7	33.7	34.1			
22		33.4	34.1		34.2			34.6	34.7	34.6	34.7		34.4			
23		33.4	34.0	34.0	34.4			34.1	34.7		34.5	34.4	34.4			
24		33.6	33.8		34.5			33.8	34.6		34.7	33.8	34.4			
25		28.8	34.1		34.2			34.0	34.7		34.7	33.8	34.4			
26		29.5	33.8		34.6			34.5	34.5		34.6	33.8	34.4			
27		29.0	34.0	34.1	33.3			34.2	34.7		34.5	34.0	34.1			
28		32.8	33.7	34.5	33.2			34.2	34.5	34.5		33.6	34.4			
29		32.9		34.5	33.6			33.8	34.5	34.6	34.6	33.7	34.0			
30		32.8			33.7			33.6	34.7	34.2	34.2	34.2	34.4			
31		32.8		34.2				34.0	34.4		34.5		34.4			
MEAN		32.70	33.32	33.88	33.92			34.46	34.50	34.51	34.36	34.12	34.26	34.00		
MAX.		33.8	34.4	34.5	34.6			35.6	35.0	35.0	35.4	34.6	34.5		35.6	
MIN.		28.8	31.6	33.6	33.2			33.6	34.1	34.0	33.8	33.6	34.0			28.8
RANGE		5.0	2.8	.9	1.4			2.0	.9	1.0	1.6	1.0	.5			
STD.DEV.		1.32	.59	.26	.36			.50	.20	.29	.38	.24	.11			

SEA WATER SUMMARY: TEMPERATURES STATION: AVILA BEACH, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	12.2	11.55	12.20	10.10	12.20	12.80	14.20	15.55			14.70				
2		12.2	11.55	12.20	10.00		13.05	14.15	16.10				13.35			
3		12.1	10.85	11.95	10.00	12.50		14.15	15.55				12.80			
4		11.95	11.00	11.95	10.00	12.45	12.80	14.20	15.55			13.90	13.35			
5		11.95	10.90	11.95	10.60		12.80	15.55	15.55			13.90	13.60			
6		11.95	11.10	11.95	10.80	13.35	12.80	15.55	14.45			14.15	12.50			
7		11.95		11.95	10.90	13.90	13.35	16.00	15.00			14.15				
8		11.65	11.10	11.65	11.10	13.90		15.55	15.00			15.00				
9		11.65	11.65	11.90		13.90	12.80	15.55	15.00				14.45			
10		11.65	11.65	11.40	10.60	13.90	12.20		15.10				14.45			
11		11.65	11.90	11.10	10.60	15.00	12.20	15.55				15.00	14.45			
12		11.80	11.65	11.35	11.10	15.00	12.70	15.55	15.00			15.30	14.45			
13		12.8	12.20	11.10	11.70	15.00	12.80	15.55	15.10			15.00	12.80			
14		12.65	12.20	10.55	12.20	13.90	12.90	15.55	15.00			13.90				
15		12.55	12.20	10.00	11.70	12.80		16.10				13.35				
16		12.45	12.20	10.00	11.70	12.80		15.55	15.10				14.45			
17		12.45		10.00	12.20	13.00	12.80	15.00	15.10				13.90			
18		11.65	12.20	10.55	12.20	13.00	13.35	15.30	15.00			14.15	13.90			
19		11.65	12.20	10.55	12.20	12.90	13.35	15.30	15.00			14.45	14.45			
20		12.80	12.20	10.55	12.10	13.00	14.45	15.30	15.00			13.35	13.90			
21		11.65	11.65	10.55	12.00	13.00	12.80					12.80				
22		11.65		10.00	12.10	12.90		15.55				13.35				
23		11.65		10.00	12.20	12.80	13.90	15.55	15.55				12.80			
24		12.20	12.00	10.10	12.10	12.80	13.90	15.55	15.55				13.35			
25		11.65	12.20	10.20	12.10		13.90	15.55	15.45			13.60	13.90			
26		11.65	11.70	10.20	12.10		13.90	15.56	14.45			13.90				
27		11.80	12.10	10.20	12.00	12.80	14.00	15.55	14.90			12.80	12.20			
28		11.90	12.20	10.10	12.20		14.05	15.55	14.80			12.80	12.80			
29		11.80		10.10	12.20	12.80	14.05	15.45	14.80			12.80				
30		10.55		10.10	12.20		14.00	15.35					13.35			
31		11.55		10.20		12.80		15.45	14.70				13.35			
MEAN		11.90	11.80	10.85	11.45	13.30	13.26	15.30	15.13			13.92	13.57	13.05		
MAX.		12.80	12.20	12.20	12.20	15.00	14.45	16.10	16.10			15.30	14.45		16.10	
MIN.		10.55	10.85	10.00	10.00	12.20	12.20	14.15	14.45			12.80	12.20			10.00
RANGE		2.25	1.35	2.20	2.20	2.80	2.25	1.95	1.65			2.50	2.25			
STD.DEV.		.47	.37	.60	.61	.77	.59	.46	.39			.71	.62			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE STATION: AVILA BEACH, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	34.1	33.7	33.8	34.0	34.1	33.8	34.1	34.5			33.7				
2		34.4	33.7	33.8	33.7		33.8	34.2	34.1				33.7			
3		34.1	33.8	33.8	33.3	34.1		34.1	33.4				33.4			
4		34.1	33.8	34.1	33.3	34.1	33.8	34.4	34.1			33.3	33.7			
5		34.1	33.8	34.1	33.7		33.8	33.8	34.1			33.4	33.7			
6		34.0	33.4	34.1	33.8	33.6	33.8	34.0	33.8			33.6	33.6			
7		34.0		34.1	33.8	33.6	33.6	33.8	34.0			32.5				
8		34.0	33.8	34.0	33.8	33.6		34.1	34.0			33.8				
9		34.0	34.0	34.0	33.4	33.6	33.4	34.1	33.7				33.8			
10		33.6	33.8	34.4	33.4	33.3	33.7		33.8				33.8			
11		34.1	34.0	34.4	33.7	33.7	33.6	33.8				33.8	33.8			
12		34.0	34.4	34.1	33.8	33.7	34.2	33.4	33.7			33.8	33.8			
13		34.4	34.2	34.1	33.6	33.7	33.7	33.8	33.7			33.7	33.2			
14		34.4	34.1	34.0	33.6	33.8	33.4	33.8	33.6			33.7				
15		34.2	33.8	33.7	33.6	33.4		34.1				33.6				
16		34.2	33.8	34.0	33.7	33.4		33.8	34.2				33.7			
17		34.2		33.7	33.6	33.6	33.8	34.0	34.2				33.6			
18		33.6	33.7	34.0	33.6	33.3	34.0	33.8	34.2			33.4	33.8			
19		33.4	33.6	34.0	34.0	33.2	34.2	34.0	34.2			33.8	33.7			
20		34.0	33.8	33.2	34.0	33.6	33.7	34.0	34.4			33.7	33.6			
21		33.6	33.3	33.2	33.7	33.2	33.8					33.4				
22		33.7		33.4	34.0	33.4		33.6				33.4				
23		33.6		33.4	34.0	33.4	33.7	33.4	34.4				33.8			
24		34.1	33.6	33.4	33.7	33.4	33.7	33.6	34.5				33.7			
25		34.0	33.8	33.7	34.0		33.8	33.7	34.6			33.7	33.6			
26		34.2	33.8	34.0	34.0		34.2	33.8	33.6			33.7				
27		34.0	33.6	33.7	34.0	33.7	34.0	34.0	33.6			33.6	33.4			
28		34.1	33.8	34.0	34.2		33.7	34.2	33.6			33.4	34.0			
29		34.0		34.0	34.2	33.7	34.0	34.1	33.8			33.6				
30		33.4		34.0	34.2		34.0	34.0					33.7			
31		33.7		34.0		33.8		34.4	33.6				33.7			
MEAN		33.65	33.80	33.88	33.80	33.60	33.77	33.93	33.98			33.55	33.67	33.76		
MAX.		34.4	34.4	34.4	34.2	34.1	34.2	34.4	34.6			33.8	34.0		34.6	
MIN.		33.4	33.3	33.2	33.3	33.2	33.8	33.4	33.4			33.5	33.2			32.5
RANGE		1.0	1.1	1.2	.9	.9	1.4	1.0	1.2			1.3	.8			
STD.DEV.		.27	.28	.33	.25	.26	.32	.28	.30			.27	.18			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: AVILA BEACH, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	13.35		13.90	12.80	12.20		15.55	16.65		15.55					
2		12.80			13.35	12.80		12.80	16.65		15.55		12.80			
3		12.80	13.35		12.80	14.45	15.00	13.90	16.10	17.20		16.65	12.80			
4			12.80	13.35	12.80		12.20	13.35		16.65	17.80		12.80			
5			13.35	13.35			14.45	14.45				16.65	12.80			
6		13.35	13.35	13.35		13.90	15.00		15.00	16.65		16.65				
7		12.20	13.90	13.35	13.35	12.80	15.00		15.00		17.80	16.10	12.20			
8		12.80		12.80	13.35	12.20		15.55	16.10		17.20	16.10	12.20			
9		13.35			13.90	12.20		14.45		17.20	17.20					
10		13.35	12.80	12.80	14.45	13.35	15.00	15.55	16.10	17.20	17.20		13.35			
11			13.35	12.80	14.45		13.90	15.55		17.20		15.55	13.90			
12			13.90	12.80			11.65	15.55	16.10	16.65	17.20	15.55	15.00			
13		12.20	13.35	12.80		13.35	15.00	15.55	16.10	16.65		15.55	14.45			
14		12.20	13.90	12.80	16.65	13.90	14.45			15.55	17.80					
15		12.80			16.65	14.45		15.00	16.10		17.80	15.55				
16		12.80			15.55	15.00			17.80	16.10	17.80	13.90	15.00			
17		13.90	13.90	13.35	15.55	15.00	15.00	15.00			17.80		15.00			
18			13.90	13.35	14.45		15.00	14.45		16.10	17.80	12.20	14.45			
19			13.90	13.35			14.45	14.45	17.20	16.10		11.65	14.45			
20		12.20	13.90	13.35		14.45	15.00	15.00	16.65	15.55		11.65	14.45			
21		11.65	13.90	13.90	15.00	14.45	14.45		16.10		17.80	11.10				
22		12.20			11.10	13.35		15.55	16.10		17.80		15.00			
23		12.20			11.65			15.55	16.10	16.65	17.80	11.10	14.45			
24		13.35			11.10	13.90	13.90		16.10	16.65	16.65		14.45			
25			13.90	13.90			14.45	15.55		16.65		12.20	14.45			
26			13.35	13.35	11.65		15.55	15.00		16.10	16.65	12.80	14.45			
27		13.35	12.80	12.80		15.00	15.55	15.55	17.20	15.55						
28		12.80	12.80	13.35		15.00	15.55	15.55	17.20		16.65	12.80				
29		12.80		13.90	12.80	15.55		15.00	17.20	15.55	16.65	12.20	14.45			
30		13.35			12.80	16.10		15.00	17.20		17.20	12.80	14.45			
31		13.35		13.35		15.00			17.20		16.65		14.45			
1-10 MEAN		13.00	13.26	13.27	13.35	12.99	14.44	14.45	15.94	16.98	16.90	16.43	12.71			
11-20 MEAN		12.68	13.76	13.08	15.55	14.36	14.31	15.07	16.66	16.24	17.70	13.95	14.59			
21-31 MEAN		12.78	13.35	13.53	12.30	14.79	14.91	15.34	16.71	16.19	17.09	12.14	14.52			
MON. MEAN		12.83	13.50	13.28	13.63	14.02	14.53	14.95	16.45	16.42	17.20	13.94	13.99	14.56		
MAX.		13.90	13.90	13.90	16.65	16.10	15.55	15.55	17.80	17.20	17.80	16.65	15.00		17.80	
MIN.		11.65	12.80	12.80	11.10	12.20	11.65	12.80	15.00	15.55	15.55	11.10	12.20			11.10
RANGE		2.25	1.10	1.10	5.55	3.90	3.90	2.75	2.80	1.65	2.25	5.55	2.80			
STD. DEV.		.50	.34	.33	1.67	1.08	1.10	.72	.74	.51	.67	1.69	.82			

SEA WATER SUMMARY: SALINITIES STATION: AVILA BEACH, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.8														
2		34.6														
3		34.2	31.1													
4			29.4													
5			30.8													
6		34.2	31.1													
7		34.4	32.3													
8		34.6														
9		34.6														
10		34.7	33.2													
11			33.4													
12			33.6													
13		34.5	33.4													
14		33.8	32.5													
15		33.6														
16		34.6														
17		34.9	33.4													
18			33.6													
19			28.4													
20		34.6	32.3													
21		34.2	33.7													
22		34.0														
23		34.2														
24		33.4														
25			33.6													
26			33.3													
27		34.5	33.6													
28		33.3	33.2													
29		33.2														
30		33.8														
31		33.6														
1-10 MEAN		34.39	31.32													
11-20 MEAN		34.33	32.58													
21-31 MEAN		33.80	33.48													
MON. MEAN		34.14	32.42													
MAX.		34.9	33.7													
MIN.		33.2	28.4													
RANGE		1.7	5.3													
STD. DEV.		.45	1.48													

SALINITIES FOR BALANCE OF YEAR QUESTIONABLE

SEA WATER SUMMARY: TEMPERATURES — STATION: AVILA BEACH, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959		12.80	15.00	12.20	13.90	13.35		16.10	16.65	16.10		14.45			
2		14.45	13.35		12.80	13.35			16.65		16.10					
3		14.45	12.80	13.90	12.20		13.35			16.65		16.10				
4		13.90		15.00			13.90	15.55	16.65	16.65		16.10	13.90			
5		13.35	13.35	15.00			13.35			16.10	16.10	16.10				
6		13.35		15.00	13.35	13.35		15.00	16.65		16.10	16.10	13.90			
7		13.35	12.80		13.90	13.35		16.10	18.35		16.10	16.10	15.00			
8			12.80	14.45	15.00	12.80	13.35		16.65	16.10		16.10	15.00			
9		13.90		13.90	13.90		13.90	15.55	16.10		16.10	16.10				
10				13.35	15.00		13.90	16.65	16.65	16.10	16.10	15.55	13.90			
11			12.80			11.10	15.00	16.65	16.65	16.65		15.55				
12		14.45	12.80	14.45					16.65	16.10		15.00	14.45			
13		15.00	13.35			13.35	15.00	16.10		16.10	16.10					
14		15.00	12.80	13.35	13.90	13.35			16.65	16.65	16.10		14.45			
15		15.00			13.35	13.90	15.00	16.65	16.65	16.10	16.10	15.00	13.90			
16		15.00	13.35	14.45	13.35	13.90	15.00			16.10						
17			13.35	13.35	13.35			16.65				15.00				
18		14.45	13.90		12.80	12.20	15.55	16.65	16.65			15.00	13.35			
19		14.45	13.90	13.90		14.45	15.00	16.65	16.10	16.65		15.00				
20		13.90		13.35	13.35	12.80	14.45		16.10	16.10						
21		14.45	13.35	13.35	13.35		14.45	16.65	16.65		16.10	15.00	13.35			
22			13.90			12.20		16.65		16.10	16.10	15.00	13.90			
23		13.90			13.35	13.90		16.65	16.65	16.10	16.10	14.45	13.90			
24			13.90		13.90		15.55	16.65			16.10					
25		13.90	15.00	13.35	13.90	13.90	16.10			16.65	16.65	15.00	13.35			
26		13.90	12.80	13.90			16.10	16.65	16.65	16.65		15.00				
27		13.90	13.90	13.35	13.90	13.90			16.65		16.65		13.35			
28		13.90			13.90	13.35	15.55	16.65	16.65	16.65	16.65					
29		13.35		13.90	13.35		15.55	16.10	16.65	16.65	16.65		13.35			
30				12.20		13.90	15.55	16.10	16.65	16.10			13.35			
31				12.20		13.35					16.65		12.80			
1-10 MEAN		13.82	12.98	14.45	13.54	13.35	13.59	15.77	16.72	16.38	16.10	16.03	14.31			
11-20 MEAN		14.66	13.28	13.81	13.35	13.13	15.00	16.56	16.49	16.31	16.10	15.09	14.04			
21-31 MEAN		13.90	13.81	13.18	13.66	13.50	15.55	16.51	16.65	16.41	16.40	14.89	13.42			
MON. MEAN		14.15	13.35	13.84	13.53	13.32	14.71	16.33	16.63	16.36	16.24	15.43	13.85	14.81		
MAX.		15.00	15.00	15.00	15.00	14.45	16.10	16.65	18.35	16.65	16.65	16.10	15.00		18.35	
MIN.		13.35	12.80	12.20	12.20	11.10	13.35	15.00	16.10	16.10	16.10	14.45	12.80			11.10
RANGE		1.65	2.20	2.80	2.80	3.35	2.75	1.65	2.25	.55	.55	1.65	2.20			
STD. DEV.		.49	.50	.84	.84	.77	.83	.43	.42	.16	.17	.43	.61			

SEA WATER SUMMARY: SALINITIES DAILY SURFACE

STATION: AVILA BEACH, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959												33.7			
2																
3																
4													33.7			
5																
6													33.6			
7													34.2			
8													33.8			
9																
10													33.7			
11																
12													34.9			
13																
14													34.4			
15													34.4			
16																
17																
18													33.4			
19																
20																
21													33.6			
22													33.7			
23													33.6			
24																
25													33.6			
26																
27													33.4			
28																
29													33.4			
30													33.6			
31													33.3			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN													33.78			
MAX.													34.9			
MIN.													33.3			
RANGE													1.6			
STD. DEV.													.41			

SEA WATER SUMMARY: SURFACE TEMPERATURES

STATION: POINT ARGUELLO LIFEBOAT STATION
POINT ARGUELLO, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	12.20														
2																
3																
4																
5																
6																
7													12.20			
8													13.10			
9													13.20			
10													10.10			
11													13.40			
12													13.10			
13													13.00			
14													13.30			
15													12.90			
16					12.50								13.10			
17					12.50								13.30			
18					11.00								14.70			
19					11.50								13.90			
20					12.00								13.50			
21					12.00								13.30			
22					12.50								13.40			
23													13.00			
24													14.00			
25													13.70			
26													12.90			
27													13.40			
28													13.90			
29													14.10			
30													14.20			
31													14.20			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN													13.31			
MAX.													14.70			
MIN.													10.10			
RANGE													4.60			
STD. DEV.													.95			

SEA WATER SUMMARY: TEMPERATURES STATION: POINT ARGUELLO, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	14.4		12.3	10.8	13.3	14.2	13.3	15.2		12.7	15.5				
2		14.4		12.0	11.2	13.6	14.1	13.2	15.1	15.6	12.5	15.1	13.5			
3		14.4		11.8	11.1	13.7	14.4	13.3	15.3	17.8	12.4	15.1	13.3			
4		13.5		11.3	11.0	13.8	14.0	13.2	15.4	16.8	12.1	15.3	14.0			
5		13.4		11.5	11.0	14.0	14.2	13.2	15.2	16.7	11.9	15.3	13.0			
6		13.3		11.3	10.9	14.3	14.0	13.0	15.1	15.6	11.8	15.2	13.5			
7		13.9	11.3	11.7	11.1	14.2	14.0	12.9		16.6	11.8	15.2	13.5			
8		12.4	11.8	12.0	11.0	14.1	13.9	12.8		17.6	11.9	15.6	13.4			
9		14.1	12.2	11.5	11.0	13.9	14.0	13.3		14.3	14.8	15.0	13.3			
10		12.6	9.8	11.9	11.1	14.1	13.8	13.4		13.3	14.7	15.1	13.3			
11		11.2	11.5	10.2	11.0	14.2	13.7	13.5		13.4	15.2	15.2	15.1			
12		13.3	11.3	9.8	11.3	14.1	13.8	13.4		14.5	15.0	15.0	15.0			
13		14.0	10.9	10.5	11.4	14.0	13.9	13.6		14.5	15.4	14.8	14.5			
14		12.4	11.4	11.9	11.5	14.0	13.7	13.7		14.6	15.8	14.4	14.9			
15		12.6	11.9	11.9	11.6	13.9	13.6	13.6		14.5	14.8	13.0	15.0			
16		11.6	12.2	11.7	11.5	13.8	13.6	13.8		14.0	15.4	13.3	15.2			
17		13.0	12.0	11.4	11.7	13.7	13.6	14.0		13.8	15.3	13.5	15.2			
18			12.0	11.2	11.9	13.8	13.6	14.2		13.7	15.0	12.0	14.4			
19			10.4	10.8	11.5	13.7	13.7	14.2		13.2	15.5	12.0	15.2			
20			11.2	10.5	12.2	13.6	13.8	14.4		13.3	14.7	12.7	14.9			
21			11.2	11.7	12.2	13.8	13.6	14.5		13.2	14.6	12.7	14.9			
22			11.7	11.5	12.3	14.0	13.7	14.7		13.8	14.8	13.1	14.7			
23			11.8	12.0	12.2	14.1	13.6	14.9		14.9	15.7	12.8	15.1			
24			11.6	10.9	12.6	14.0	13.5	15.1		13.5	15.7	13.4	14.8			
25			11.4	11.5	12.5	13.8	13.6	15.3		13.6	17.5	12.8	14.7			
26			11.6	11.1	12.7	14.1	13.8	15.2		13.1	15.2	12.4	14.4			
27			11.6	11.4	12.8	14.0	13.6			13.8	15.4	14.5	13.8			
28			11.6	11.0	13.0	13.9	13.4	15.4		13.5	15.9	14.5	13.4			
29				10.5	13.2	14.0	13.4	15.1		13.1	15.6	14.5	13.9			
30				11.1	13.1	14.2	13.6	15.3		13.4	16.3		14.4			
31				10.0		14.1		14.9			15.1		14.7			
MEAN		13.2	11.5	11.3	11.7	13.9	13.8	14.0	15.2	14.5	14.5	14.1	14.3	13.5		
MAX.		14.4	12.2	12.3	13.2	14.3	14.4	15.4	15.4	17.8	17.5	15.6	15.2		17.8	
MIN.		11.2	9.8	9.8	10.8	13.3	13.4	12.8	15.1	13.1	11.8	12.0	13.0			9.8
RANGE		3.2	2.4	2.5	2.4	1.0	1.0	2.6	.3	4.7	5.7	3.6	2.2			
STD.DEV.		.96	.62	.61	.63	.22	.25	.68	.13	1.27	1.38	.98	.56			

SEA WATER SUMMARY: SALINITIES STATION: POINT ARGUELLO, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	33.59	33.48	33.58	33.75	33.68	33.79	33.64	33.54		33.54	33.57				
2		33.61	33.49	33.58	33.59		33.70	33.66	33.52	33.48	33.59	33.55	33.66			
3		33.62	33.48	33.58	33.60	33.69	33.65	33.63	33.49	33.53	33.59	33.58	33.58			
4		33.48		33.56	33.59	33.68	33.76	33.60	33.54	33.54	33.59	33.58	33.64			
5		33.47		33.57	33.58	33.68	33.70	33.61	33.58	33.53	33.57	33.58	33.62			
6		33.42		33.65	33.59	-	33.64	33.60	33.49	33.53	33.53	33.57	33.63			
7		33.49	33.37	33.78	33.58	33.84	33.63	33.46		33.53	33.61	33.56	33.62			
8		33.59	33.39	33.77	33.57	33.63	33.62	33.50		33.49	33.60	33.57	33.62			
9		33.52	33.39	33.78	33.51	33.68	33.68	33.51		33.49	33.49	33.57	33.62			
10		33.53	33.39	33.80	33.55	33.75	33.69	33.47		33.49	33.35	33.58	33.68			
11		33.54	33.39	33.79	33.53	33.56	33.61	33.51		33.49	33.44	33.55	33.66			
12		33.51	33.39	33.78	33.52	33.75	33.62	33.50		33.49	33.35	33.48	33.65			
13		33.40	33.40	33.78	33.51	33.66	33.65	33.53		33.48	33.35	33.47	33.58			
14		33.46	33.40	33.78	33.54	33.72	33.68	33.51		33.48	33.39	33.54	33.57			
15		33.49	33.39	33.75	33.57	33.59	33.70	33.48		33.48	33.46	33.53	33.34			
16		33.46	33.42	33.76	33.52	33.72	33.68	33.48		33.47	33.44	33.62	33.63			
17		33.47	33.41	33.76	33.56	33.64	33.68	33.51		33.49	33.44	33.61	33.58			
18		33.49	33.42	33.77	33.53	33.58	33.54	33.48		33.46	33.50	33.62	33.67			
19		33.49	33.40	33.76	33.55	33.78	33.68	33.48		33.66	33.49	33.58	33.66			
20		33.46	33.42	33.77	33.53	33.59	33.58	33.48		33.51	33.49	33.62	33.63			
21		33.47	33.51	33.75	33.52	33.64	33.59	33.50		33.50	33.49	33.58	33.66			
22		33.44	33.49	33.76	33.52	33.71	33.75	33.50		33.54	33.53	33.57	33.66			
23		33.46	33.52	33.77	33.68	33.68	33.68	33.52		33.54	33.56	33.59	33.65			
24		33.48	33.51	33.75		33.72	33.66	33.50		33.48	33.53	33.59	33.91			
25		33.48	33.52	33.74	33.66	33.70	33.58	33.49		33.47	33.48	33.53	33.72			
26		33.48	33.51	33.75	33.87	33.62	33.64	33.51		33.49	33.49	33.62	33.73			
27		33.48	33.48	33.75		33.73	33.65			33.42	33.48	33.57	33.73			
28		33.48	33.51	33.71		33.63	33.58	33.51		33.43	33.53	33.63	33.74			
29		33.48		33.68		33.76	33.65	33.48		33.42	33.48	33.53	33.71			
30		33.47		33.71	33.71	33.68	33.63	33.50		33.43	33.59		33.68			
31		33.47		33.71		33.82		33.50			32.72		33.65			
MEAN		33.49	33.44	33.72	33.59	33.69	33.66	33.52	33.53	33.49	33.47	33.57	33.64	33.57		
MAX.		33.62	33.52	33.80	33.87	33.84	33.79	33.66	33.56	33.66	33.61	33.63	33.74		33.87	
MIN.		33.40	33.37	33.56	33.51	33.56	33.54	33.46	33.49	33.42	32.72	33.47	33.34			32.72
RANGE		.22	.15	.24	.36	.28	.25	.20	.09	.24	.89	.16	.40			
STD.DEV.		.06	.04	.06	.09	.07	.06	.05	.04	.05	.15	.04	.08			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: POINT ARGUELLO, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	14.50	15.20													
2		14.60	15.40													
3		14.70	15.30													
4		14.40	15.00													
5		14.50	14.90													
6		14.80	15.10													
7		14.80	15.40													
8		14.70	15.90													
9		14.50	15.90													
10		14.50	15.80													
11		15.00	15.60													
12		14.80	15.70													
13		13.50	14.00													
14		14.00	15.90													
15		15.40	15.70													
16		15.60	15.40													
17		13.80	15.50													
18		14.00	15.70													
19		14.50	15.00													
20		14.20	15.60													
21		14.20	15.00													
22		14.10	15.55													
23		14.10	16.30													
24		14.00	16.30													
25		14.70	15.50													
26		15.00	14.00													
27		15.20	13.40													
28		14.90	13.60													
29		14.50														
30		14.40														
31																
1-10 MEAN		14.60	15.39													
11-20 MEAN		14.48	15.41													
21-31 MEAN		14.51	14.96													
MON. MEAN		14.53	15.27													
MAX.		15.60	16.30													
MIN.		13.50	13.40													
RANGE		2.10	2.90													
STD. DEV.		.50	.78													

STATION DISCONTINUED

SEA WATER SUMMARY: SALINITIES — STATION: PT. ARGUELLO, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.83	33.36													
2		33.75	33.54													
3		33.70	33.49													
4		33.69	33.48													
5		33.69	33.60													
6		33.71	33.45													
7		33.74	33.47													
8		33.72	33.75													
9		33.55	33.57													
10		33.50	33.57													
11		33.69	33.63													
12		33.69	32.73													
13		33.70	33.99													
14		33.68	33.60													
15		33.71	33.60													
16		33.68	33.57													
17		33.69	33.66													
18		33.65	33.53													
19		33.68	33.22													
20		33.69	33.57													
21		33.59	33.58													
22		33.59	33.58													
23		33.67	33.61													
24		33.59	33.62													
25		33.42	33.53													
26		33.45	33.53													
27		33.65	33.62													
28		33.64	33.64													
29		33.64														
30		33.61														
31																
1-10 MEAN		33.69	33.53													
11-20 MEAN		33.69	33.51													
21-31 MEAN		33.58	33.59													
MON. MEAN		33.65	33.54													
MAX.		33.83	33.99													
MIN.		33.42	32.73													
RANGE		.41	1.26													
STD. DEV.		.10	.25													

STATION DISCONTINUED

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1945	13.05	12.78	11.67	11.11	14.30	13.50	15.50	18.30	17.90	17.50	16.00	13.80			
2		13.33	13.89	11.39	11.11	14.50	13.30	15.40	18.40	16.60	17.40	15.70	13.70			
3		13.33	13.33	11.95	10.55	14.40	13.40	15.60	18.20	16.70	17.60	16.00	14.00			
4		12.78	13.89	11.95	10.83	14.20	13.20	15.00	18.50	17.00	16.80	15.60	13.50			
5		12.78	13.89	11.95	11.67	14.50	13.10	14.90	18.00	16.90	16.50	16.40	13.70			
6		13.33	13.89	11.67	10.83	14.50	13.20	15.00	17.60	16.90	17.20	16.80	14.00			
7		13.33	13.33	11.67	11.11	13.60	13.30	15.00	17.30	17.50	16.80	15.80	13.60			
8		14.44	13.33	11.39	10.55	14.10	13.40	15.20	18.20	17.70	17.00	15.60	13.00			
9		14.44	13.61	11.67	10.83	13.50	13.30	15.60	17.20	17.90	16.50	15.40	13.40			
10		14.17	13.89	12.22	10.83	13.20	13.30	16.60	17.30	16.60	16.80	13.00	12.60			
11		14.44	13.05	12.50	11.11	14.10	13.10	16.20	16.80	16.00	17.00	12.60	12.40			
12		13.89	12.78	12.78	11.39	14.20	13.50	15.80	16.50	16.50	17.50	12.50	12.80			
13		13.89	13.33	13.33	11.11	14.40	13.70	15.50	16.50	16.00	16.80	13.00	12.60			
14		12.78	13.33	13.33	10.55	13.50	14.00	15.80	15.80	16.40	17.20	13.20	12.30			
15		13.05	12.78		10.55	13.10	13.80	15.60	15.70	18.00	17.80	13.00	12.50			
16		13.05	13.33	13.33	11.11	12.50		16.00	15.20	18.40	17.00	13.00	12.80			
17		12.33	13.61	12.78	11.11	12.10		16.50	15.70	19.00	16.60	14.20	12.80			
18		13.33	13.05	12.50	11.67	11.50		16.20		19.20	16.00	13.80	13.30			
19		12.22	12.22	11.39	11.67	11.40		16.50		19.20	15.80	13.50	13.00			
20		11.67	12.50	11.67	12.22	11.50		16.40		19.40	15.40	13.30	13.09			
21		12.22	12.78	11.95	11.95	12.10		16.30		18.60	15.00	13.00	13.60			
22		12.22	11.95	11.67	11.67	12.50		16.00		17.60	15.40	13.30	14.20			
23		12.22	11.11	11.11	11.39	12.40		16.20		17.00	15.30	14.20	14.60			
24		12.78	11.95	10.55	10.72	12.00	14.20	16.80		17.00	15.00	14.60	14.00			
25		12.78	12.22	10.00	10.55	12.20	14.40	17.00	17.50	17.00	15.00	14.90	13.80			
26		13.33	11.95		11.39	12.30	14.30	17.20	17.70	17.20	15.40	14.20	13.50			
27		12.78	11.67	10.00	11.11	12.50	14.50	17.80	18.20	18.10	16.20	13.80	14.00			
28		12.78	11.67	10.00	10.83	12.70	15.20	17.70	18.00	17.50	16.60	14.00	13.50			
29		13.33		10.28	11.11	12.80	15.40	17.00	18.40	17.80	17.00	14.40	13.80			
30		12.78		10.55	14.00	13.30	15.30	17.80	18.00	18.30	17.30	13.80	13.40			
31		13.61		10.55		13.20		18.00	18.20		17.50		13.00			
MEAN		13.14	12.90	11.65	11.22	13.13	13.84	16.20	17.38	17.52	16.55	14.29	13.36	14.26		
MAX.		14.44	13.89	13.33	14.00	14.50	15.40	18.00	18.50	19.40	17.80	16.80	14.60		19.40	
MIN.		11.67	11.11	10.00	10.55	11.40	13.10	14.90	15.20	16.00	15.00	12.50	12.30			10.00
RANGE		2.77	2.78	3.33	3.45	3.10	2.30	3.10	3.30	3.40	2.80	4.30	2.30			
STD.DEV.		.68	.70	.92	.70	.83	.67	.80	.87	.90	.73	1.11	.56			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: PORT HUENEME, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1945	33.33	33.26	33.35	33.47	33.57	33.60	33.46	33.57	33.54	33.41	33.66	33.39			
2		33.42	33.18	33.21	33.42	33.58	33.54	33.46	33.57	33.50	33.44	33.58	33.26			
3		33.41	33.27	33.30	33.47	33.58	33.61	33.53	33.58	33.50	33.49	33.57	33.31			
4		33.35	33.21	33.37	33.48	33.54	33.57	33.57	33.54	33.47	33.40	33.61	33.37			
5		33.37	33.31	33.22	33.51	33.54	33.49	33.60	33.60	33.55	33.44	33.48	33.27			
6		33.39	33.21	33.31	33.53	33.66	33.48	33.69	33.55	33.40	33.44	33.53	33.30			
7		33.39	33.27	33.30	33.55	33.47	33.53	33.60	33.57	33.55	33.49	33.55	33.38			
8		33.34	33.35	33.28	33.62	33.41	33.47	33.58	33.61	33.57	33.47	33.60	33.37			
9		33.39	33.34	33.37	33.51	33.60	33.51	33.49	33.55	33.50	33.48	33.61	33.38			
10		33.48	33.46	33.34	33.35	33.53	33.54	33.54	33.58	33.57	33.62	33.60	33.35			
11		33.40	33.44	33.33	33.37	33.48	33.57	33.55	33.62	33.57	33.53	33.41	33.30			
12		33.35	33.44	33.50	33.38	33.42	33.57	33.57	33.68	33.53	33.53	33.58	33.53			
13		33.38	33.46	33.42	33.38	33.57	33.57	33.62	33.62	33.58	33.66	33.64	33.33			
14		33.41	33.38	33.22	33.44	33.53	33.54	33.57	33.50	33.58	33.55	33.47	33.30			
15		33.41	33.46		33.47	33.48	33.57	33.47	33.54	33.57	33.51	33.50	33.30			
16		33.39	33.50	33.31	33.46	33.46	33.55	33.51	33.54	33.51	33.47	33.53	33.30			
17		33.34	33.44	33.42	33.54	33.50	33.47	33.48	33.58	33.53	33.54	33.54	33.35			
18		33.46	33.41	33.34	33.42	33.49	33.40	33.58		33.49	33.50	33.51	33.19			
19		33.40	33.47	33.29	33.34	33.48	33.47	33.51		33.54	33.48	33.51	33.21			
20		33.42	33.42	33.34	33.48	33.50	33.39	33.47		33.57	33.49	33.47	33.27			
21		33.30	33.44	33.42	33.46	33.41	33.41	33.62		33.40	33.57	33.55	33.28			
22		33.34	33.35	33.46	33.44	33.44	33.50	33.54		33.49	33.47	33.46	33.27			
23		33.51	33.44	33.49	33.44	33.53	33.55	33.50		33.44	33.44	33.51	33.30			
24		33.50	33.48	33.48	33.51	33.53	33.55	33.50		33.41	33.47	33.51	33.41			
25		33.48	33.47	33.51	33.49	33.66	33.51	33.66	33.55	33.39	33.51	33.51	33.40			
26		33.39	33.44		33.48	33.61	33.42	33.60	33.48	33.51	33.40	33.54	33.31			
27		33.42	33.40	33.48	33.55	33.62	33.38	33.71	33.44	33.47	33.42	33.33	33.33			
28		33.49	33.38	33.33	33.61	33.55	33.40	33.62	33.41	33.37	33.53	33.30	33.39			
29		33.47		33.44	33.61	33.57	33.44	33.58	33.48	33.49	33.55	33.39	33.39			
30		33.40		33.37	33.64	33.57	33.49	33.67	33.51	33.51	33.51	33.30	33.33			
31		33.21		33.48		33.62		33.61	33.64		33.57		33.42			
MEAN		33.40	33.38	33.37	33.48	33.53	33.50	33.56	33.55	33.50	33.50	33.51	33.33	33.47	-	
MAX.		33.51	33.50	33.51	33.64	33.66	33.61	33.71	33.68	33.58	33.66	33.66	33.42		33.71	
MIN.		33.21	33.18	33.21	33.34	33.41	33.38	33.46	33.41	33.37	33.40	33.30	33.19			33.18
RANGE		.30	.32	.30	.30	.25	.23	.25	.27	.21	.26	.36	.23			
STD.DEV.		.07	.08	.08	.08	.07	.06	.06	.07	.05	.06	.10	.06			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: PORT HUENEME, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1946	13.60	12.60	13.00	13.80	14.30	13.80	18.30	17.00	15.60	15.80	16.20	14.80			
2		13.80	12.00	13.00	13.80	14.20	13.60	18.30	16.80	16.00	17.20		14.60			
3		13.60	12.20	13.00	13.40	13.80	14.00	18.50	16.00	16.20	16.80		14.40			
4		13.90	12.50	13.00	13.60	13.50	14.40	18.00	15.60	16.40	16.00	17.00	14.80			
5		12.80	12.50	12.60	14.20	13.60	14.80	17.50	15.00	16.00	15.60	16.40	15.00			
6		12.60	12.60	12.00	14.70	15.00	15.00	17.00	15.40	16.40	15.80	15.60	15.20			
7		11.50	12.00	12.20	14.20	15.50	14.30	17.80	16.00	16.60	15.50	15.40	14.00			
8		11.30	11.60	12.50	13.80	15.50	15.20	18.00	16.80	16.00	15.40	15.40	13.60			
9		11.00	11.30	13.00	13.50	15.60		18.00	17.40	15.50	15.20	15.20	13.90			
10		11.30	11.60	12.60	13.00	15.40		18.50	17.80	16.00	15.60	14.60	14.20			
11		11.00	12.00	12.60	12.80	15.00		18.40	17.60	16.30	16.00	14.70	14.00			
12		11.50	11.50	13.00	13.40	14.60		17.60	17.20	15.80	15.80	15.40	13.80			
13		11.80	11.70	13.40	13.00	14.20		17.50	17.50	16.60	15.80	15.20	13.40			
14		11.70	11.60	13.60	13.40	14.00		17.40	18.00	16.00	15.60	15.00	13.00			
15		12.10	12.30	13.60	13.60	14.20		17.50	18.40	15.60	16.00	14.60	14.00			
16		12.40	12.50	12.60	13.20	14.00		17.50	17.20	14.80	17.00	14.20	13.80			
17		12.60	11.80	11.60	13.50	14.00		17.00	16.50	14.50	17.60	14.40	13.80			
18		12.50	11.60	12.60	13.60	13.80		17.30	15.60	16.20	17.20	15.00	13.80			
19		12.80	11.60	12.40	13.50	14.00		17.20	15.40	17.40	16.50	15.20	14.20			
20		13.00	12.00	12.00	13.80	13.60		17.70	15.00	17.00	16.50	15.20	13.60			
21		13.00	12.50	12.00	13.70	13.20		17.50	15.40	17.80	16.30	15.20	14.40			
22		13.20	12.90	12.20	13.20	13.00		18.10	15.80	18.00	16.00	15.50	14.60			
23		13.70	12.70	12.90	14.00	13.20		17.00	15.80	18.40	16.80	15.80	14.40			
24		13.00	13.00	13.00	14.80	12.60		17.00	16.20	18.80	17.20	15.30	14.60			
25		13.00	13.30	13.20	15.20	12.40		17.20	16.00	18.30	17.30	15.40	14.60			
26		13.20	13.60	13.50	15.60	13.20		16.80	15.80	16.60	17.20	15.00	14.80			
27		12.60	13.50	13.20	16.00	13.40		16.20	15.20	16.00	17.40	15.20	14.40			
28		12.60	13.60	13.80	16.00	12.40		15.80	15.00	15.40	17.20	15.20	14.00			
29		12.00		14.00	15.50	12.60	17.00	15.20	15.20	15.20	17.60	15.00	13.80			
30		12.00		14.20	15.40	12.40	17.20	15.20	15.00	15.00	17.80	15.00	13.60			
31		11.60		14.00		12.00		16.80	15.30		16.80		13.00			
MEAN		12.47	12.31	12.91	14.04	13.81	14.93	17.35	16.22	16.35	16.47	15.26	14.13	14.69		
MAX.		13.90	13.60	14.20	16.00	15.60	17.20	18.50	18.40	18.80	17.80	17.00	15.20		18.80	
MIN.		11.00	11.30	11.60	12.80	12.00	13.60	15.20	15.00	14.50	15.20	14.20	13.00			11.00
RANGE		2.90	2.30	2.60	3.20	3.60	3.60	3.30	3.40	4.30	2.60	2.80	2.20			
STD.DEV.		.77	.61	.62	.85	.91	1.34	.89	.87	1.08	.65	.64	.57			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Hoeneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1946	33.44	33.31	33.34	33.17	33.75	33.69	33.57	33.73	33.64	33.57	33.67	33.49			
2		33.41	33.35	33.28	33.10	33.69	33.60	33.64	33.60	33.64	33.55		33.57			
3		33.42	33.42	33.30	33.07	33.73	33.67	33.71	33.61	33.73	33.55		33.51			
4		33.39	33.49	33.38	33.19	33.68	33.66	33.77	33.74	33.69	33.68	33.62	33.51			
5		33.47	33.46	33.49	33.34	33.68	33.70	33.82	33.74	33.68	33.64	33.55	33.50			
6		33.55	33.30	33.44	33.37	33.70	33.60	33.61	33.75	33.75	33.67	33.50	33.35			
7		33.47	33.42	33.40	33.42	33.69	33.57	33.70	33.68	33.75	33.64	33.44	33.42			
8		33.46	33.34	33.41	33.57	33.61	33.66	33.60	33.69	33.80	33.61	33.49	33.46			
9		33.44	33.31	33.31	33.50	33.64		33.70	33.74	33.64	33.60	33.54	33.44			
10		33.30	33.38	33.30	33.50	33.57		33.75	33.81	33.74	33.70	33.51	33.48			
11		33.41	33.37	33.34	33.37	33.70		33.68	33.67	33.60	33.55	33.51	33.48			
12		33.46	33.28	33.30	33.41	33.67		33.74	33.67	33.55	33.71	33.50	33.50			
13		33.47	33.34	33.30	33.44	33.71		33.69	33.73	33.67	33.57	33.47	33.61			
14		33.48	33.28	33.41	33.30	33.74		33.70	33.66	33.66	33.60	33.42	33.58			
15		33.35	33.46	33.34	33.34	33.74		33.68	33.61	33.75	33.62	33.51	33.41			
16		33.44	33.41	33.41	33.48	33.64		33.71	33.54	33.62	33.57	33.55	33.47			
17		33.42	33.44	33.30	33.77	33.66		33.70	33.78	33.67	33.61	33.61	33.50			
18		33.37	33.30	33.31	33.86	33.78		33.73	33.73	33.61	33.55	33.58	33.57			
19		33.34	33.24	33.21	33.84	33.77		33.77	33.71	33.78	33.55	33.55	33.57			
20		33.46	33.44	33.38	33.78	33.77		33.69	33.60	33.86	33.53	33.51	33.62			
21		33.42	33.40	33.28	33.87	33.75		33.67	33.55	33.69	33.57	33.57	33.61			
22		33.49	33.31	33.38	33.81	33.74		33.80	33.67	33.61	33.58	33.54	33.64			
23		33.35	33.41	33.26	33.80	33.80		33.68	33.70	33.77	33.49	33.53	33.57			
24		33.40	33.35	33.22	33.70	33.80		33.57	33.75	33.69	33.54	33.46	33.47			
25		33.46	33.33	33.30	33.60	33.82		33.54	33.73	33.84	33.53	33.39	33.57			
26		33.51	33.34	33.15	33.68	33.78		33.69	33.47	33.74	33.57	33.54	33.51			
27		33.44	33.41	33.10	33.69	33.77		33.74	33.55	33.71	33.62	33.41	33.49			
28		33.46	33.26	33.02	33.70	33.80		33.74	33.58	33.61	33.50	33.46	33.48			
29		33.34		33.04	33.69	33.57	33.57	33.70	33.62	33.61	33.51	33.57	33.49			
30		33.31		33.02	33.64	33.61	33.62	33.73	33.70	33.64	33.54	33.67	33.58			
31		33.35		33.18		33.74		33.74	33.61		33.62		33.57			
MEAN		33.42	33.36	33.29	33.53	33.71	33.63	33.70	33.67	33.69	33.58	33.52	33.52	33.55		
MAX.		33.55	33.49	33.49	33.87	33.82	33.70	33.82	33.81	33.86	33.71	33.67	33.64		33.87	
MIN.		33.30	33.24	33.02	33.07	33.57	33.57	33.54	33.47	33.55	33.49	33.39	33.35			33.02
RANGE		.25	.25	.47	.80	.25	.13	.28	.34	.31	.22	.28	.29			
STD.DEV.		.06	.06	.12	.21	.06	.05	.07	.08	.08	.06	.08	.07			

SEA WATER SUMMARY: TEMPERATURES STATION: HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1947	13.20	12.50	14.00	14.90	13.20		13.30	14.00	16.80	15.20	16.60	13.80			
2		12.60	12.80	14.40	14.50	13.80		13.40	14.50	16.50	15.80	16.00	13.40			
3		12.40	13.00	13.60	14.20	13.60		13.50	14.30	15.20	16.60	15.50	14.20			
4		13.20	13.00	13.00	13.80	13.40		13.80	14.80	14.80	17.20	15.80	14.60			
5		12.40	13.40	12.80	12.40	14.20		13.50	14.60	14.60	17.00	14.60	14.50			
6		12.50	13.00	12.60	12.00	14.60		14.00	14.00	15.20	17.40	14.00	14.40			
7		12.80	13.80	12.40	11.80	15.00		13.60	13.80	15.30	17.40	13.50	14.40			
8		13.20	13.50	12.80	12.20	14.70		14.40	13.70	15.60	17.60	14.00	14.40			
9		13.30	13.50	13.00	11.80	14.60		15.00	15.00	15.30	17.20	14.30	14.60			
10		12.60	13.60	13.60	11.60	13.80		15.20	15.40	15.50	16.80	14.50	14.30			
11		13.00	13.50	14.40	12.00	13.70		15.50	15.80	15.80	17.20	14.60	14.20			
12		13.00	13.50	14.60	11.90	14.60		14.80	15.60	15.80	17.00	14.40	14.00			
13		13.20	13.60	14.40	12.20	14.40		14.60	15.50	16.00	16.80	15.00	12.40			
14		12.60	13.60	13.80	12.80	14.60		14.80	15.90	16.20	17.20	15.50	14.60			
15		12.20	13.80	13.40	12.60	13.80		14.30	16.60	17.20	17.60	15.80	14.80			
16		11.80	13.20	14.00	13.40	13.60		14.40	16.80	17.00	17.40	15.00	13.80			
17		12.00	12.80	14.00	13.60	14.20		14.60	17.00	17.50	16.80	14.50	13.80			
18		12.40	12.80	13.50	13.60	14.40		14.80	17.40	17.00	16.40	15.00	13.20			
19		12.50	12.60	13.40	14.20	13.80		14.50	16.40	16.20	15.80	15.20	13.20			
20		12.60	13.40	13.40	14.40	14.20		15.20	15.80	16.60	15.50	14.60	14.00			
21		12.80	13.30	13.90	14.20	15.00		15.40	15.60	17.20	16.20	14.50	14.00			
22		12.60	13.60	14.40	13.80	15.20		15.80	15.80	17.00	15.80	15.00	14.20			
23		13.20	13.20	14.40	13.60	15.00		16.20	16.80	17.50	15.40	14.40	14.60			
24		13.40	13.00	14.60	14.00	15.40		16.80	17.00	16.80	16.00	14.20	14.70			
25		13.80	13.80	14.50	14.20	15.60		16.20	17.40	15.80	15.80	14.50	14.00			
26		13.50	13.60	14.60	14.20	15.40		16.00	16.20	15.50	16.40	14.50	13.80			
27		13.40	13.80	14.80	14.00	15.20		16.30	16.80	15.00	17.00	14.60	14.20			
28		13.20	13.40	15.20	13.80	15.00		16.00	17.00	14.80	17.50	14.60	14.20			
29		13.20		15.60	13.60	15.60		15.80	17.20	14.60	17.20	14.50	13.80			
30		12.60		15.40	13.60	16.20		15.00	17.00	14.80	17.40	14.20	13.00			
31		12.20		14.80		16.00		14.60	16.80		17.00		13.20			
MEAN		12.82	13.31	13.98	13.29	14.57	---	14.88	15.82	15.97	16.70	14.78	14.01	14.56		
MAX.		13.80	13.80	15.60	14.90	16.20		16.80	17.40	17.50	17.60	16.60	14.80		17.60	
MIN.		11.80	12.50	12.40	11.60	13.20		13.30	13.70	14.60	15.20	13.50	12.40			11.60
RANGE		2.00	1.30	3.20	3.30	3.00		3.50	3.70	2.90	2.40	3.10	2.40			
STD.DEV.		.47	.35	.81	.82	.76		.87	.99	.79	.62	.70	.56			

SEA WATER SUMMARY: SALINITIES STATION: HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1947	33.66	33.30	33.44	33.35	33.46		33.70	33.64	33.70	33.61	33.49	33.57			
2		33.67	33.28	33.40	33.40	33.40		33.70	33.51	33.58	33.61	33.47	33.60			
3		33.61	33.30	33.38	33.44	33.41		33.54	33.67	33.64	33.54	33.61	33.48			
4		33.64	33.33	33.44	33.37	33.49		33.70	33.67	33.64	33.49	33.61	33.58			
5		33.54	33.30	33.50	33.44	33.55		33.66	33.73	33.80	33.47	33.75	33.53			
6		33.53	33.37	33.37	33.40	33.58		33.58	33.61	33.68	33.58	33.81	33.48			
7		33.57	33.37	33.46	33.41	33.71		33.60	33.67	33.62	33.62	33.75	33.54			
8		33.54	33.34	33.53	33.37	33.64		33.77	33.62	33.57	33.38	33.57	33.48			
9		33.49	33.22	33.50	33.37	33.54		33.75	33.74	33.54	33.57	33.60	33.53			
10		33.61	33.21	33.57	33.47	33.64		33.70	33.71		33.55	33.54	33.62			
11		33.60	33.13	33.49	33.57	33.62		33.75	33.70		33.66	33.57	33.49			
12		33.57	33.30	33.47	33.51	33.71		33.77	33.62	33.68	33.61	33.58	33.54			
13		33.62	33.31	33.35	33.47	33.69		33.67	33.70	33.60	33.68	33.62	33.55			
14		33.66	33.34	33.39	33.42	33.67		33.70	33.80		33.49	33.74	33.49			
15		33.60	33.30	33.28	33.51	33.68		33.62	33.71	33.71	33.53	33.66	33.57			
16		33.70	33.33	33.26	33.31	33.74		33.61	33.80	33.53	33.46	33.61	33.57			
17		33.61	33.30	33.37	33.49	33.69		33.69	33.77		33.60	33.58	33.49			
18		33.58	33.24	33.28	33.42	33.66		33.75	33.75	33.55	33.51	33.48	33.69			
19		33.46	33.26	33.28	33.42	33.61		33.67	33.77	33.57	33.62	33.39	33.53			
20		33.22	33.31	33.27	33.51	33.60		33.64	33.70	33.54	33.48	33.48	33.53			
21		33.24	33.31	33.28	33.49	33.67		33.67	33.68	33.46	33.60	33.49	33.41			
22		33.39	33.38	33.30	33.57	33.60		33.81	33.66	33.47	33.57	33.42	33.42			
23		33.54	33.39	33.24	33.58	33.68		33.75	33.62	33.67	33.61	33.42	33.53			
24		33.37	33.38	33.34	33.57	33.70		33.77	33.75	33.50	33.58	33.49	33.57			
25		33.40	33.37	33.30	33.48	33.67		33.71	33.68	33.53	33.60	33.57	33.42			
26		33.42	33.44	33.46	33.53	33.77		33.73	33.70	33.60	33.61	33.48	33.47			
27		33.42	33.33	33.44	33.40	33.70		33.67	33.64	33.67	33.50	33.41	33.47			
28		33.34	33.38	33.38	33.47	33.73		33.64	33.67	33.58	33.64	33.41	33.44			
29		33.33		33.35	33.47	33.74		33.70	33.66	33.51	33.69	33.39	33.42			
30		33.30		33.44	33.47	33.74		33.69	33.75	33.62	33.58	33.41	33.54			
31		33.37		33.38		33.69		33.70	33.71		33.51		33.51			
MEAN		33.50	33.32	33.39	33.46	33.64	---	33.69	33.69	33.60	33.57	33.55	33.52	33.54		
MAX.		33.70	33.44	33.57	33.58	33.77		33.81	33.80	33.80	33.69	33.81	33.69		33.81	
MIN.		33.22	33.13	33.24	33.31	33.40		33.54	33.51	33.46	33.38	33.39	33.41			33.13
RANGE		.48	.31	.33	.27	.37		.27	.29	.34	.31	.42	.28			
STD.DEV.		.12	.07	.08	.07	.09		.06	.07	.08	.07	.10	.06			

SEA WATER SUMMARY: TEMPERATURES STATION: HUENEME, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1948	12.60	13.60	12.60	13.40	13.20	14.00	16.20	16.80	15.40	15.80	14.60	14.00			
2		13.00	13.00	12.40	13.20	13.20	14.00		16.80	15.40	14.80	15.00	13.60			
3		13.60	13.20	12.40	13.40	13.00	14.60		16.60	15.80	14.50	15.40	13.50			
4		13.40	13.40	12.20	13.60	13.80	15.40		16.80	16.00	14.50	15.30	12.50			
5		13.60	13.20	12.40	13.40	14.20	14.00		16.50	16.20	15.20	14.40	12.20			
6		13.80	13.00	12.20	13.60	13.50	13.80		16.60	16.20	15.60	15.00	12.00			
7		13.60	12.50	12.40	12.80	14.40	14.80		16.80	15.60	15.80	14.50	13.10			
8		13.60	12.40	12.50	12.60	14.20	15.20		15.60	15.40	15.50	14.90	13.20			
9		14.20	12.60	12.60	12.40	14.00	14.20		15.50	15.20	14.80	15.00	13.30			
10		13.80	13.40	12.00	13.20	13.60	14.20		15.40	15.20	15.00	15.20	12.80			
11		13.40	12.60	11.80	13.00	13.60	14.40		16.00	16.00	15.40	15.60	13.50			
12		13.00	11.80	11.60	12.40	13.60	15.00		16.60	15.60	15.20	15.40	13.20			
13		12.80	11.40	12.40	12.50	14.20	15.40		17.00	14.80	15.40	15.20	13.50			
14		12.50	12.00	12.60	13.00	14.00	15.60		17.50	14.50	16.20	15.00	12.90			
15		12.50	11.60	12.80	13.40	13.80	15.80		17.30	16.60	15.80	14.80	12.20			
16		13.00	12.40	12.60	12.80	13.00	15.80		17.40	17.20	15.60	15.40	12.50			
17		13.30	12.60	12.50	12.50	13.00	15.60		16.60	18.00	15.00	15.50	13.20			
18		13.50	13.00	12.80	12.60	13.20	14.50		16.80	18.50	15.20	15.00	12.50			
19		13.40	13.40	13.00	13.00	13.40	15.00		16.50	18.40	15.40	14.80	13.20			
20		12.60	13.60	13.20	12.80	12.40	15.20		16.80	17.60	15.50	14.60	13.00			
21		13.20	13.20	12.60	12.80	11.60	16.60		17.20	17.40	15.40	14.40	13.40			
22		13.40	13.60	12.20	12.80	12.60	17.20		17.40	17.00	14.80	14.40	13.50			
23		13.60	12.80	11.40	13.20	13.20	17.40		17.20	16.80	14.50	14.50	13.50			
24		13.80	12.60	12.00	13.00	12.80	17.60	16.50	16.80	17.40	15.20	15.00	12.40			
25		13.60	11.80	11.80	12.80	12.60	17.20	16.60	16.90	17.60	15.60	15.10	12.40			
26		13.80	12.40	11.40	13.40	13.00	17.00	16.40	17.00	16.20	15.20	14.80	12.20			
27		12.60	12.60	11.80	13.20	13.40	16.50	16.60	17.00	15.60	16.00	14.60	12.80			
28		12.20	12.20	11.60	13.00	13.40	16.60	16.80	16.40	15.40	15.80	14.40	12.80			
29		12.60	12.00	12.40	13.50	13.40	16.40	17.40	16.20	16.40	16.00	13.50	12.50			
30		13.00		12.80	13.40	13.80	16.50	17.30	15.60	16.00	15.80	13.30	13.00			
31		13.40		13.60		14.20		17.50	15.40		15.00		12.90			
MEAN		13.24	12.69	12.34	13.02	13.40	15.52	16.81	16.61	16.31	15.34	14.82	12.95	14.42		
MAX.		14.20	13.60	13.60	13.60	14.40	17.60	17.50	17.50	18.50	16.20	15.60	14.00		18.50	
MIN.		12.20	11.40	11.40	12.40	11.60	13.80	16.20	15.40	14.50	14.50	13.30	12.00			11.40
RANGE		2.00	2.20	2.20	1.20	2.80	3.80	1.30	2.10	4.00	1.70	2.30	2.00			
STD.DEV.		.45	.58	.54	.33	.62	.98	.48	.56	1.04	.43	.59	.46			

SEA WATER SUMMARY: SALINITIES — STATION: HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1948	33.54	33.42	33.30	33.55	33.62	33.73	33.74	33.51	33.51	33.51	33.38	33.57			
2		33.51	33.44	33.26	33.53	33.58	33.62		33.58	33.71	33.62	33.41	33.58			
3		33.57	33.28	33.37	33.57	33.57	33.64		33.67	33.62	33.55	33.59	33.53			
4		33.44	33.44	33.24	33.69	33.60	33.57		33.68	33.69	33.61	33.54	33.55			
5		33.61	33.40	33.33	33.48	33.70	33.67		33.68	33.81	33.58	33.53	33.51			
6		33.46	33.31	33.30	33.55	33.64	33.53		33.81	33.62	33.50	33.44	33.47			
7		33.48	33.31	33.37	33.57	33.61	33.64		33.86	33.55	33.42	33.41	33.39			
8		33.53	33.30	33.27	33.64	33.53	33.60		33.73	33.54	33.50	33.44	33.58			
9		33.54	33.35	33.26	33.58	33.50	33.63		33.69	33.51	33.49	33.50	33.50			
10		33.40	33.30	33.27	33.68	33.54	33.61		33.57	33.60	33.46	33.26	33.39			
11		33.50	33.27	33.33	33.75	33.51	33.69		33.51	33.50	33.46	33.18	33.30			
12		33.57	33.37	33.22	33.71	33.50	33.58		33.66	33.61	33.54	33.30	33.39			
13		33.58	33.48	33.41	33.57	33.53	33.57		33.53	33.71	33.60	33.44	33.40			
14		33.47	33.57	33.37	33.70	33.53	33.66		33.55	33.74	33.53	33.48	33.28			
15		33.68	33.38	33.34	33.61	33.31	33.69		33.66	33.68	33.71	33.37	33.38			
16		33.60	33.34	33.34	33.51	33.50	33.58		33.64	33.74	33.61	33.46	33.41			
17		33.64	33.44	33.30	33.57	33.47	33.57		33.55	33.60	33.69	33.42	33.37			
18		33.57	33.35	33.41	33.61	33.42	33.40		33.60	33.60	33.58	33.42	33.34			
19		33.58	33.35	33.40	33.61	33.57	33.57		33.55	33.58	33.39	33.68	33.38			
20		33.54	33.30	33.17	33.69	33.38	33.54		33.57	33.56	33.41	33.66	33.33			
21		33.62	33.22	33.39	33.46	33.66	33.54		33.57	33.61	33.51	33.57	33.48			
22		33.48	33.22	33.37	33.54	33.67	33.55		33.78	33.60	33.49	33.54	33.39			
23		33.47	33.33	33.38	33.51	33.47	33.53		33.77	33.54	33.46	33.53	33.26			
24		33.50	33.28	33.24	33.50	33.49	33.55	33.50	33.60	33.68	33.51	33.51	33.46			
25		33.54	33.35	33.35	33.47	33.30	33.62	33.75	33.57	33.71	33.39	33.62	33.51			
26		33.50	33.34	33.41	33.54	33.33	33.68	33.62	33.58	33.62	33.21	33.58	33.31			
27		33.54	33.26	33.34	33.57	33.44	33.66	33.67	33.61	33.57	33.44	33.42	33.39			
28		33.40	33.21	33.49	33.62	33.49	33.62	33.57	33.61	33.61	33.61	33.56	33.42			
29		33.41	33.24	33.60	33.69	33.41	33.61	33.66	33.74	33.61	33.54	33.57	33.41			
30		33.46		33.49	33.69	33.57	33.70	33.54	33.64	33.61	33.49	33.49	33.47			
31		33.55		33.49		33.49		33.62	33.71		33.49		33.46			
MEAN		33.53	33.34	33.35	33.59	33.51	33.60	33.63	33.64	33.62	33.51	33.47	33.43	33.52		
MAX.		33.68	33.57	33.60	33.75	33.70	33.73	33.75	33.86	33.81	33.71	33.68	33.67		33.86	
MIN.		33.40	33.21	33.17	33.46	33.30	33.40	33.50	33.51	33.50	33.21	33.18	33.26			33.17
RANGE		.28	.36	.43	.29	.40	.33	.25	.35	.31	.50	.50	.41			
STD.DEV.		.07	.08	.09	.07	.10	.07	.09	.09	.07	.11	.12	.10			

SEA WATER SUMMARY: TEMPERATURES STATION: HUENEME, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	12.80	11.00	12.20	11.50	14.80	16.30	15.80	15.40	17.00	15.60	14.30	15.20			
2		12.50	10.50	12.50	11.90	14.90	14.60	15.90	15.80	16.60	16.90	14.40	15.50			
3		12.40	11.00	12.50	11.50	14.40	14.40	14.80	15.40	16.50	14.60	14.00	15.20			
4		12.20	10.40	12.90	11.50	14.60	16.20	15.80	15.80	17.50	16.90	14.30	15.30			
5		11.40	10.80	12.60	12.10	13.40	16.00	15.20	16.40	16.40	17.00	14.00	15.10			
6		10.80	10.90	12.50	13.20	14.60	15.20	15.20	16.20	16.90	16.90	16.50	15.00			
7		10.40	11.90	12.70	13.60	14.40	15.70	15.40	15.90	16.40	16.40	16.10	14.80			
8		11.40	11.20	14.10	11.80	14.50	15.40	16.70	14.80	16.20	15.30	15.80	14.90			
9		10.40	11.50	13.60	12.10	14.00	15.50	16.50	14.50	16.10	13.80	14.80	14.00			
10		10.40	11.20	13.40	12.20	14.00	15.30	17.10	15.10	15.20	13.40	14.20				
11		10.20	11.80	13.00	12.60	15.00	15.10	16.40	14.90	16.50	14.80	14.50				
12		10.40	10.70	12.70	12.70	14.80	15.40	17.30	15.40	16.90	15.00	14.30	13.70			
13		10.50	11.20	12.10	12.60	14.60	15.30	17.00	15.00	16.10	15.90	14.80	13.50			
14		11.50	10.00	12.30	12.70	14.10	15.40	16.60	14.90	15.80	15.50	14.50	13.80			
15		10.20	10.10	11.90	12.80	14.40	15.30	16.40	16.20	17.50	16.60	15.80	12.80			
16		10.50	10.50	12.40	12.80	14.30	14.80	16.50	15.80	17.30	16.30	16.90	13.00			
17		10.20	10.40	12.40	12.80	13.40	14.10	16.70	14.80	17.80	16.10	17.10	12.80			
18		10.40	11.50	12.50	13.50	14.30	16.10	16.70	15.20	17.90	15.40	16.40	12.40			
19		11.70	11.70	12.20	12.60	14.20	14.10	16.50	15.60	17.40	12.90	16.20	11.50			
20		11.50	12.20	13.00	12.80	15.30	14.50	17.10	16.80	17.30	11.80	14.80	10.90			
21		11.20	12.80	12.40	13.90	16.50	14.80	16.80	17.00	17.60	12.90	15.10	11.90			
22		10.40	12.50	12.80	13.80	15.50	14.30	16.50	16.80	17.40	12.40	15.00	12.00			
23		10.60	12.60	11.50	14.00	15.00	13.90	19.00	16.90	17.40	13.30	15.90	12.70			
24		11.40	12.50	11.80	14.50	15.00	15.30	18.80	16.00	17.30	14.10	15.80	13.20			
25		11.20	12.60	10.00	14.10	16.10	13.30	17.90	16.80	15.70	13.90	16.00	11.90			
26		11.00	12.00	10.70	14.40	15.40	14.40	15.20	17.10	16.40	13.10	15.40	12.20			
27		10.90	12.20	13.30	14.60	15.60	16.40	14.70	16.30	16.10	13.80	15.60	12.40			
28		11.80	12.40	11.30	14.30	14.80	14.80	14.70	17.60	15.50	15.10	15.70	11.80			
29		10.70		11.40	14.40	15.80	14.00	15.90	17.90	15.00	14.90	15.10	12.00			
30		11.60		10.20	14.10	16.20	14.90	15.40	17.60	14.50	14.30	15.50	12.00			
31		11.50		11.00				14.90	17.40		14.90		12.90			
MEAN		11.10	11.43	12.25	13.05	14.80	15.03	16.30	16.64	16.61	14.83	15.29	13.26	14.17		
MAX.		12.80	12.80	14.10	14.60	16.50	16.40	19.00	17.90	17.90	17.00	17.10	15.50		19.00	
MIN.		10.20	10.00	10.00	11.50	13.40	13.30	14.70	14.50	14.50	11.80	14.00	10.90			10.00
RANGE		2.60	2.80	4.10	3.10	3.10	3.10	4.30	3.40	3.40	5.20	3.10	4.60			
STD.DEV.		.66	.74	1.02	.83	.81	.75	1.14	.84	.85	1.31	.82	1.16			

SEA WATER SUMMARY: SALINITIES

STATION: PORT HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	33.53	33.55	33.33	33.33	33.44	33.75	33.73	33.74	33.57	33.68	33.54	33.51			
2		33.40	33.47	33.37	33.41	33.48	33.57	33.67	33.70	33.57	33.57	33.44	33.50			
3		33.50	33.54	33.34	33.42	33.54	33.61	33.70	33.69	33.70	33.57	33.46	33.02			
4		33.53	33.50	33.30	33.46	33.47	33.73	33.81	33.75	33.61	33.57	33.49	33.28			
5		33.58	33.51	33.40	33.61	33.37	33.62	33.71	33.60	33.78	33.60	33.30	33.40			
6		33.44	33.50	33.17	33.60	33.50	33.61	33.67	33.67	33.62	33.55	33.41	33.10			
7		33.42	33.46	33.15	33.37	33.68	33.64	33.69	33.60	33.62	33.66	33.28	33.37			
8		33.55	33.46	33.31	33.53	33.64	33.66	33.71	33.61	33.58	33.57	33.64	33.49			
9		33.40	33.42	33.26	33.53	33.80	33.64	33.70	33.64	33.57	33.46	33.47	33.49			
10		33.47	33.55	33.30	33.66	33.78	33.77	33.73	33.61	33.47	33.58	33.49				
11		33.42	33.50	33.30	33.44	33.67	33.57	33.81	33.51	33.57	33.48	33.42				
12		33.42	33.51	33.30	33.49	33.77	33.66	33.67	33.55	33.48	33.66	33.44	33.33			
13		33.58	33.37	33.15	33.46	33.86	33.61	33.73	33.68	33.49	33.70	33.51	33.49			
14		33.69	33.51	33.48	33.38	33.93	33.67	33.78	33.69	33.47	33.68	33.51	33.57			
15		33.49	33.41	33.38	33.34	33.70	33.80	33.84	33.64	33.71	33.50	33.57	33.31			
16		33.51	33.44	33.34	33.47	33.54	33.67	33.71	33.61	33.49	33.42	33.40	33.33			
17		33.38	33.44	33.34	33.53	33.55	33.49	33.67	33.53	33.41	33.48	33.35	33.38			
18		33.35	33.39	33.46	33.46	33.64	33.53	33.73	33.57	33.49	33.50	33.47	33.40			
19		33.57	33.42	33.48	33.53	33.77	33.64	33.66	33.53	33.57	33.55	33.53	33.31			
20		33.44	33.33	33.57	33.41	33.77	33.69	33.62	33.57	33.67	33.58	33.53	33.26			
21		33.48	33.31	33.54	33.48	33.78	33.62	33.67	33.73	33.64	33.57	33.60	33.46			
22		33.60	33.21	33.51	33.55	33.75	33.64	33.62	33.58	33.62	33.60	33.50	33.39			
23		33.49	33.28	33.33	33.46	33.64	33.64	33.77	33.77	33.54	33.49	33.41	33.39			
24		33.40	33.28	33.49	33.44	33.67	33.64	33.57	33.66	33.66	33.51	33.40	33.30			
25		33.57	33.38	33.42	33.31	33.73	33.69	33.54	33.61	33.69	33.60	33.33	33.11			
26		33.61	33.30	33.34	33.34	33.66	33.67	33.50	33.58	33.58	33.61	33.38	33.22			
27		33.48	33.34	33.30	33.44	33.75	33.80	33.77	33.66	33.57	33.66	33.22	33.40			
28		33.47	33.38	33.30	33.64	33.62	33.77	33.57	33.75	33.57	33.49	33.49	33.41			
29		33.47		33.41	33.41	33.53	33.81	33.57	33.70	33.48	33.50	33.44	33.18			
30		33.49		33.40	33.39	33.54	33.75	33.51	33.62	33.53	33.53	33.39	33.41			
31		33.54		33.44				33.62	33.73		33.49		33.30			
MEAN		33.49	33.41	33.36	33.46	33.65	33.67	33.68	33.64	33.57	33.56	33.45	33.35	33.52		
MAX.		33.69	33.55	33.57	33.66	33.93	33.81	33.84	33.77	33.78	33.70	33.64	33.57		33.93	
MIN.		33.35	33.21	33.15	33.31	33.37	33.49	33.50	33.51	33.41	33.42	33.22	33.02			33.02
RANGE		.34	.34	.42	.35	.56	.32	.34	.26	.37	.28	.42	.55			
STD.DEV.		.08	.08	.11	.09	.13	.08	.09	.06	.08	.07	.10	.13			

SEA WATER SUMMARY: TEMPERATURES STATION: HUENEME, CALIF
DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	12.40	10.70	12.60	12.00	14.90	14.60	16.60	18.90	18.40	17.00	17.90	15.40			
2		12.90	10.50	12.60	13.70	14.40	14.70	16.80	19.00	17.30	17.20	16.50	14.90			
3		12.00	10.10	12.30	12.40	14.00	16.00	16.40	16.50	18.00	16.40	16.30	15.00			
4		11.80	11.40	12.80	14.00	13.80	15.60	17.10	15.50	18.20	16.50	17.00	15.20			
5		11.90	11.60	12.70	13.00	13.40	14.70	16.70	15.40	18.50	17.20	17.40	15.30			
6		10.40	12.80	12.50	14.10	12.50	15.10	15.50	15.90	18.60	17.10	17.20	14.60			
7		11.80	13.20	14.40	13.70	12.80	14.90	16.00	16.90	18.60	16.50	16.90	15.50			
8		12.00	13.40	13.60	13.80	13.40	13.80	15.00	16.40	18.90	16.00	16.20	15.30			
9		13.90	13.90	13.10	13.50	14.50	13.70	16.40	15.70	19.80	15.90	16.20	15.50			
10		13.40	12.00	13.50	14.20	13.90	15.10	19.20	14.80	19.10	17.80	15.20	14.50			
11		13.20	11.50	12.40	15.20	12.00	15.00	18.50	14.50	18.40	17.50	14.60	13.30			
12		11.80	11.50	12.40	12.00	13.40	14.20	17.90	15.70	18.70	15.80	14.60	13.40			
13		12.40	13.90	12.00	12.20	13.20	14.50	16.60	15.40	18.40	16.50	14.80	13.50			
14		12.10	12.70	13.20	11.90	12.60	14.00	17.50	15.50	18.60	17.20	14.30	15.00			
15		12.30	12.50	12.10	12.40	13.80	13.80	16.50	15.40	18.80	16.10	15.10	15.70			
16		12.90	11.60	13.40	12.20	12.80	12.90	16.90	15.60	18.10	16.40	14.60	15.60			
17		11.90	13.20	13.00	13.40	13.70	14.20	19.10	16.40	18.90	16.20	16.00	15.70			
18		12.00	12.80	12.90	14.40	13.90	14.50	19.90	15.80	19.80	16.50	15.20	15.20			
19		12.00	12.30	12.00	15.20	14.20	14.90	18.70	15.60	18.70	16.50	15.40	14.50			
20		12.10	12.20	13.90	14.80	13.40	14.50	18.40	14.60	18.20	15.50	16.00	14.20			
21		12.30	13.20	13.40	14.20	14.20	15.50	18.90	15.00	18.10	15.90	15.80	14.00			
22		12.30	13.00	13.80	13.90	13.80	14.90	19.80	14.90	19.00	15.20	14.60	14.10			
23		12.20	12.80	14.20	13.40	13.80	14.40	20.50	16.10	18.70	15.70	13.30	15.00			
24		11.50	12.50	12.40	14.50	15.20	14.90	19.50	16.00	17.70	17.70	13.70	14.90			
25		11.60	13.00	12.00	14.40	14.90	14.90	19.20	17.80	17.00	17.50	14.30	15.10			
26		10.60	12.60	12.80	13.90	14.20	16.90	18.40	17.20	17.00	16.80	14.50	15.30			
27		10.60	12.10	11.20	14.90	14.10	15.70	18.00	17.80	17.20	17.10	15.30	14.20			
28		9.70	11.90	14.20	14.80	13.50	16.80	18.70	17.60	16.00	17.60	15.30	14.60			
29		10.60		11.40	15.40	13.30	17.80	17.20	17.80	17.00	17.10	14.00	14.50			
30		10.30		12.10	14.70	14.20	17.50	18.20	17.60	16.10	16.50	15.00	14.90			
31		9.50		12.80		15.10		18.70	17.80		15.90		14.50			
MEAN		11.82	12.32	12.89	13.74	13.77	15.00	17.83	16.29	18.27	16.61	15.44	14.79	14.89		
MAX.		13.90	13.90	14.40	15.40	15.20	17.80	20.50	19.00	19.80	17.80	17.40	15.70		20.50	
MIN.		9.50	10.10	11.20	11.90	12.00	12.90	15.00	14.50	16.00	15.20	13.30	13.30			9.50
RANGE		4.40	3.80	3.20	3.50	3.20	4.90	5.50	4.50	3.80	2.60	4.10	2.40			
STD.DEV.		1.10	1.00	.81	.92	.79	1.19	1.34	1.19	1.02	.65	1.13	.64			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: PORT HUENEME, CALIF

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	33.28	33.47	33.24	33.37	33.71	33.66	33.67	33.71	33.62	33.42	33.55	33.54			
2		33.28	33.49	33.33	33.42	33.71	33.66	33.67	33.73	33.58	33.60	33.60	33.41			
3		33.46	33.47	33.30	33.30	33.62	33.57	33.64	33.58	33.57	33.62	33.47	33.50			
4		33.41	33.50	33.27	33.38	33.61	33.62	33.62	33.73	33.66	33.60	33.38	33.58			
5		33.46	33.54	33.41	33.49	33.77	33.57	33.67	33.66	33.64	33.69	33.35	33.64			
6		33.58	33.57	33.50	33.49	33.61	33.57	33.60	33.70	33.62	33.57	33.37	33.54			
7		33.49	33.50	33.66	33.41	33.66	33.64	33.69	33.71	33.58	33.46	33.31	33.57			
8		33.49	33.51	33.53	33.34	33.53	33.66	33.73	33.66	33.57	33.48	33.40	33.53			
9		33.42	33.55	33.44	33.30	33.60	33.57	33.70	33.64	33.57	33.54	33.22	33.47			
10		33.50	33.71	33.44	33.35	33.53	33.73	33.67	33.61	33.61	33.39	33.48	33.47			
11		33.50	33.55	33.53	33.30	33.66	33.68	33.78	33.57	33.60	33.46	33.61	33.48			
12		33.44	33.42	33.60	33.39	33.48	33.66	33.58	33.50	33.54	33.58	33.53	33.44			
13		33.47	33.58	33.62	33.30	33.58	33.68	33.61	33.51	33.55	33.46	33.55	33.54			
14		33.44	33.57	33.40	33.47	33.69	33.80	33.80	33.62	33.60	33.48	33.61	33.27			
15		33.48	33.53	33.60	33.34	33.51	33.73	33.71	33.57	33.60	33.49	33.47	33.37			
16		33.41	33.50	33.37	33.41	33.50		33.73	33.74	33.70	33.49	33.50	33.51			
17		33.54	33.60	33.49	33.27	33.61	33.54	33.67	33.64	33.60	33.37	33.50	33.54			
18		33.47	33.49	33.47	33.35	33.74	33.61	33.60	33.62	33.73	33.47	33.48	33.55			
19		33.64	33.58	33.14	33.42	33.69	33.60	33.71	33.66	33.62	33.57	33.51	33.42			
20		33.42	33.55	33.28	33.39	33.77	33.69	33.57	33.60	33.58	33.60	33.55	33.51			
21		33.68	33.64	33.21	33.62	33.71	33.73	33.67	33.71	33.58	33.54	33.57	33.51			
22		33.62	33.47	33.21	33.62	33.61	33.64	33.57	33.68	33.64	33.53	33.49	33.44			
23		33.53	33.47	33.14	33.54	33.64	33.66	33.54	33.67	33.57	33.54	33.57	33.51			
24		33.37	33.28	33.19	33.49	33.68	33.57	33.71	33.53	33.56	33.51	33.58	33.57			
25		33.28	33.44	33.28	33.54	33.71	33.64	33.61	33.57	33.50	33.48	33.57	33.50			
26		33.57	33.42	33.37	33.62	33.62	33.64	33.77	33.61	33.64	33.48	33.49	33.53			
27		33.57	33.44	33.46	33.57	33.77	33.75	33.66	33.57	33.57	33.41	33.49	33.49			
28		33.62	33.38	33.26	33.58	33.69	33.71	33.58	33.66	33.51	33.57	33.48	33.54			
29		33.57		33.11	33.57	33.67	33.61	33.66	33.66	33.57	33.57	33.60	33.57			
30		33.51		33.34	33.75	33.66	33.66	33.74	33.61	33.42	33.67	33.49	33.42			
31		33.60		33.34		33.62		33.70	33.61		33.54		33.41			
MEAN		33.49	33.51	33.31	33.45	33.64	33.65	33.66	33.63	33.59	33.52	33.49	33.50	33.54		
MAX.		33.68	33.71	33.66	33.75	33.77	33.80	33.80	33.74	33.73	33.69	33.61	33.64		33.80	
MIN.		33.28	33.28	33.11	33.27	33.48	33.54	33.54	33.50	33.42	33.37	33.22	33.27			33.11
RANGE		.40	.43	.55	.48	.29	.26	.26	.24	.31	.32	.39	.37			
STD.DEV.		.10	.11	.14	.11	.08	.06	.06	.06	.07	.08	.09	.08			

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	13.50	11.00	11.90	14.80	12.60	16.20	15.80	15.50	18.80	17.10	17.20	15.40			
2		13.80	10.30	11.00	14.90	13.00	16.60	16.50	15.40	18.50	16.00	17.20	15.30			
3		14.30	10.50	11.50	14.80	12.60	16.80	16.90	15.60	18.80	16.50	17.60	14.60			
4		13.80	11.70	11.50	14.60	14.10	16.00	16.20	16.00	17.10	16.30	17.80	15.40			
5		13.90	12.00	11.50	15.10	13.10	16.30	16.80	16.50	17.60	16.50	17.60	14.60			
6		13.70	12.70	12.10	15.20	13.00	15.60	17.10	16.00	18.60	15.30	17.80	13.80			
7		12.80	12.50	12.50	15.10	14.50	16.00	16.50	16.50	18.00	16.50	17.40	13.90			
8		12.60	12.90	12.00	14.50	13.50	16.10	15.40	15.60	18.50	17.50	17.80	13.40			
9		12.60	13.00	12.20	14.40	12.90	15.80	14.60	16.60	18.00	16.90	17.80	12.40			
10		12.70	12.50	13.00	14.90	13.20	15.00	14.80	17.00	17.90	16.00	16.80	11.90			
11		12.60	11.90	11.90	14.50	14.20	16.00	16.80	16.90	18.00	16.20	16.60	12.20			
12		12.20	11.50	12.00	14.50	13.50	16.40	16.90	17.20	18.30	16.80	16.90	13.40			
13		11.90	11.00	12.10	14.40	13.80	16.60	16.90	18.20	17.70	16.10	16.10	13.40			
14		12.00	11.80	13.00	14.50	14.50	16.90	17.20	18.10	16.80	16.30	16.40	13.20			
15		12.20	11.00	13.50	13.40	13.70	17.00	17.80	18.50	17.00	17.50	16.90	13.60			
16		12.00	11.30	13.00	14.60	13.40	17.60	18.50	18.40	17.80	17.80	15.60	14.40			
17		12.50	13.50	13.40	14.80	14.70	16.60	18.50	18.50	17.90	17.80	16.30	13.90			
18		11.90	13.80	12.20	14.40	13.00	16.80	19.50	18.00	17.90	18.50	16.40	14.90			
19		11.70	13.00	13.20	14.10	13.10	16.90	19.60	18.20	17.40	17.80	16.50	14.20			
20		11.50	13.20	13.00	14.50	13.80	18.00	20.00	18.60	16.30	17.60	16.40	13.20			
21		11.30	12.90	13.60	15.00	13.50	17.40	18.50	18.30	17.00	17.90	16.50	12.90			
22		11.20	13.00	14.20	14.40	14.80	16.20	17.50	18.20	17.20	18.00	16.00	12.80			
23		12.50	11.80	14.50	14.10	13.20	15.80	18.20	17.80	18.30	18.40	16.40	14.20			
24		13.60	12.70	14.50	14.50	14.00	15.90	17.90	17.50	17.10	18.30	16.40	14.40			
25		13.50	12.80	14.30	14.00	14.70	17.60	18.20	17.50	18.60	16.30	15.80	13.40			
26		13.20	12.70	14.00	16.10	14.50	17.40	18.40	17.50	18.10	17.00	16.20	14.40			
27		13.90	12.20	14.90	15.50	15.00	16.40	18.00	17.80	17.10	17.20	16.40	14.20			
28		13.50	12.00	14.90	14.10	16.50	15.80	18.50	17.60	17.00	16.50	16.00	14.40			
29		12.80		15.20	14.50	16.40	15.40	18.10	17.50	18.00	17.20		14.00			
30		11.90		14.80	13.30	16.80	15.80	16.50	17.30	17.50	17.30	16.20	14.00			
31		12.30		14.50		15.90		15.30	18.00		17.20		13.60			
MEAN		12.71	12.19	13.09	14.58	14.05	16.43	17.34	17.30	17.76	17.04	16.72	13.85	15.26		
MAX.		14.30	13.80	15.20	16.10	16.80	18.60	20.00	18.60	18.80	18.50	17.80	15.40		20.00	
MIN.		11.20	10.30	11.00	13.30	12.60	15.00	14.60	15.40	16.30	15.30	15.60	11.90			10.30
RANGE		3.10	3.50	4.20	2.80	4.20	3.00	5.40	3.20	2.50	3.20	2.20	3.50			
STD.DEV.		.77	.90	1.03	.67	1.10	.71	1.38	.84	.61	.76	.58	.91			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: PORT HUENEME, CALIF

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	33.53	33.26	33.49	33.37	33.64	33.67	33.67	33.58	33.50	33.57	33.61	33.40			
2		33.48	33.49	33.54	33.41	33.57	33.73	33.47	33.75	33.54	33.57	33.58	33.54			
3		33.57	33.30	33.58	33.34	33.49	33.60	33.50	33.66	33.66	33.40	33.53	33.41			
4		33.57	33.37	33.54	33.40	33.46	33.57	33.64	33.53	33.42	33.33	33.49	33.33			
5		33.50	33.48	33.53	33.57	33.53	33.51	33.60	33.54	33.47	33.42	33.57	33.38			
6		33.47	33.61	33.49	33.61	33.61	33.61	33.67	33.57	33.62	33.62	33.55	33.41			
7		33.57	33.26	33.49	33.47	33.50	33.53	33.66	33.64	33.62	33.66	33.53	33.34			
8		33.50	33.48	33.49	33.51	33.57	33.71	33.60	33.57	33.66	33.49	33.57	33.31			
9		33.41	33.47	33.35	33.55	33.62	33.62	33.68	33.54	33.61	33.57	33.57	33.48			
10		33.44	33.42	33.42	33.48	33.55	33.60	33.57	33.60	33.66	33.37	33.57	33.41			
11		33.48	33.38	33.58	33.48	33.51	33.50	33.57	33.57	33.70	33.51	33.57	33.39			
12		33.42	33.39	33.53	33.46	33.51	33.77	33.58	33.57	33.57	33.61	33.57	33.35			
13		33.31	33.33	33.42	33.50	33.61	33.54	33.71	33.60	33.60	33.55	33.58	33.30			
14		33.54	33.34	33.46	33.35	33.57	33.54	33.62	33.50	33.50	33.66	33.48	33.48			
15		33.51	33.39	33.58	33.42	33.55	33.55	33.57	33.57	33.64	33.61	33.47	33.39			
16		33.41	33.57	33.35	33.34	33.51	33.64	33.69	33.57	33.47	33.47	33.49	33.26			
17		33.47	33.54	33.41	33.48	33.49	33.60	33.57	33.57	33.47	33.47	33.48	33.27			
18		33.39	33.54	33.46	33.47	33.62	33.57	33.57	33.55	33.44	33.46	33.48	33.21			
19		33.40	33.57	33.53	33.42	33.51	33.62	33.67	33.51	33.53	33.60	33.47	33.21			
20		33.57	33.56	33.33	33.57	33.58	33.60	33.57	33.69	33.49	33.40	33.58	33.24			
21		33.47	33.48	33.30	33.54	33.61	33.51	33.64	33.55	33.51	33.53	33.60	33.30			
22		33.49	33.53	33.44	33.47	33.49	33.61	33.61	33.50	33.66	33.57	33.38	33.17			
23		33.51	33.46	33.48	33.49	33.58	33.57	33.71	33.51	33.64	33.47	33.44	33.30			
24		33.41	33.41	33.55	33.42	33.60	33.73	33.69	33.61	33.60	33.66	33.53	33.33			
25		33.39	33.41	33.51	33.44	33.53	33.61	33.67	33.60	33.57	33.49	33.50	33.26			
26		33.39	33.60	33.55	33.57	33.69	33.57	33.66	33.42	33.73	33.57	33.50	33.22			
27		33.38	33.57	33.42	33.46	33.62	33.58	33.66	33.48	33.54	33.44	33.51	33.30			
28		33.35	33.48	33.55	33.61	33.61	33.62	33.58	33.48	33.49	33.39	33.47	33.30			
29		33.42		33.40	33.55	33.60	33.70	33.73	33.51	33.47	33.48	33.48	33.11			
30		33.46		33.60	33.57	33.68	33.73	33.62	33.47	33.49	33.40	33.37	33.21			
31		33.42		33.34		33.77		33.62	33.53		33.61		33.24			
MEAN		33.46	33.45	33.47	33.48	33.57	33.61	33.62	33.56	33.56	33.51	33.52	33.32	33.51		
MAX.		33.57	33.61	33.60	33.61	33.77	33.77	33.73	33.75	33.73	33.66	33.61	33.54		33.77	
MIN.		33.31	33.26	33.30	33.34	33.46	33.50	33.47	33.42	33.42	33.33	33.37	33.11			33.11
RANGE		.26	.35	.30	.27	.31	.27	.26	.33	.31	.33	.24	.43			
STD.DEV.		.06	.10	.07	.07	.07	.07	.06	.07	.08	.08	.06	.10			

SEA WATER SUMMARY: TEMPERATURES — STATION: PORT HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	13.00	14.00	13.50	14.40	14.80	15.90	14.90	17.80	17.20	17.00	14.80	14.50			
2		13.40	14.30	13.80	14.90	15.00	15.60	14.70	15.90	16.90	17.00	14.70	14.90			
3		13.20	14.40	12.40	15.40	14.80	15.60	15.70	15.80	15.80	17.20	15.00	14.10			
4		13.00	14.20	12.00	14.90	14.70	15.50	14.80	14.60	16.60	17.00	14.80	15.10			
5		12.70	14.60	11.90	14.90	13.70	15.60	14.70	15.10	14.80	15.40	14.40	14.80			
6		12.50	14.10	13.20	14.60	14.20	15.70	14.50	15.90	16.00	16.00	15.40	13.90			
7		12.60	14.40	13.10	14.30	14.60	16.40	14.60	16.50	15.50	16.10	15.40	14.50			
8		13.00	14.30	13.30	15.40	14.10	16.20	13.90	16.90	14.80	15.40	15.80	14.00			
9		12.50	13.80	13.50	15.40	14.10	16.00	14.40	16.40	14.50	16.00	15.40	14.40			
10		12.90	14.10	12.90	14.50	14.00	16.10	14.10	16.40	14.40	15.80	16.50	15.00			
11		12.50	13.90	12.10	14.80	14.10	14.80	14.20	16.10	15.40	15.40	16.20	14.40			
12		12.20	14.00	12.90	15.00	13.50	13.70	14.80	15.80	14.80	15.30	15.80	14.40			
13		13.20	14.00	12.40	15.00	12.70	15.00	14.80	16.00	15.00	15.60	15.40	14.60			
14		12.70	14.00	11.40	14.50	14.10	15.20	14.00	15.80	14.20	15.00	15.40	14.40			
15		13.50	14.00	11.10	15.10	14.60	14.50	15.20	17.10	14.90	15.50	14.80	15.00			
16		13.00	13.40	12.80	14.90	15.10	14.80	14.00	16.60	14.20	15.70	14.30	14.20			
17		13.20	13.50	12.90	15.00	15.40	15.20	14.60	16.40	13.56	15.80	13.40	14.50			
18		12.00	12.40	13.80	15.00	14.80	15.20	15.80	18.20	13.80	16.50	14.00	14.80			
19			13.20	13.90	15.40	15.10	14.90	15.50	18.00	13.90	16.90	15.00	14.50			
20		14.00	12.60	13.60	15.20	15.40	15.20	16.10	18.70	14.20	16.20	15.10	14.50			
21		13.50	12.40	13.60	15.20	15.80	15.80	14.50	18.40	15.90	15.80	15.10	14.40			
22		14.60	12.70	12.80	15.60	15.20	15.90	14.70	17.70	16.30	16.40	14.60	14.30			
23		13.90	12.40	12.70	15.00	14.80	16.10	14.20	17.50	16.50	16.80	14.50	13.40			
24		13.70	13.40	13.00	14.20	15.20	15.60	15.80	18.70	16.60	16.80	14.80	13.90			
25		13.90	13.00	13.40	13.20	14.20	14.50	16.10	18.00	16.90	17.20	14.10	13.90			
26		14.50	13.50	13.90	13.40	14.20	14.60	17.10	18.10	16.80	16.40	13.40	13.90			
27		14.00	13.50	13.70	13.20	14.70	15.00	16.00	17.80	16.80	16.40	14.50	13.40			
28		14.50	13.90	14.50	15.00	14.80	15.20	16.20	16.80	16.80	16.40	14.40	13.80			
29		13.90	13.40	13.90	15.10	14.70	15.70	16.80	15.90	16.80	15.40	14.30	14.00			
30		13.40		14.00	14.90	14.80	16.80	17.60	15.70	16.90	15.90	14.00	13.30			
31		14.60		14.60		15.00		17.90	15.60		15.40					
MEAN		13.32	13.63	13.12	14.78	14.59	15.38	15.23	16.78	15.56	16.12	14.84	14.29	14.80		
MAX.		14.60	14.60	14.60	15.60	15.80	16.40	17.90	18.70	17.20	17.20	16.50	15.10		18.70	
MIN.		12.00	12.40	11.10	13.20	12.70	13.70	13.90	14.60	13.50	15.00	13.40	13.30			11.10
RANGE		2.60	2.20	3.50	2.40	3.10	2.70	4.00	4.10	3.70	2.20	3.10	1.80			
STD.DEV.		.68	.58	.89	.63	.68	.60	1.03	1.04	.93	.56	.81	.46			

SEA WATER SUMMARY: Salinities
Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1952	33.28	33.26	33.54	33.60	33.58	33.54	33.67	33.68	33.57	33.64	33.60	33.47			
2		33.26	33.47	33.60	33.60	33.58	33.57	33.70	33.57	33.51	33.60	33.53	33.39			
3		33.19	33.40	33.57	33.55	33.41	33.57	33.62	33.64	33.55	33.40	33.49	33.34			
4		33.31	33.37	33.61	33.54	33.40	33.67	33.66	33.67	33.62	33.53	33.51	33.34			
5		33.40	33.38	33.57	33.44	33.47	33.74	33.62	33.55	33.71	33.55	33.54	33.39			
6		33.31	33.39	33.39	33.38	33.61	33.68	33.61	33.70	33.67	33.53	33.44	33.46			
7		33.39	33.41	33.49	33.51	33.70	33.60	33.60	33.68	33.69	33.54	33.44	33.39			
8		33.30	33.54	33.46	33.58	33.67	33.62	33.67	33.67	33.68	33.64	33.49	33.48			
9		33.42	33.61	33.30	33.57	33.64	33.68	33.62	33.77	33.64	33.57	33.58	33.35			
10		33.30	33.62	33.35	33.57	33.60	33.57	33.64	33.66	33.57	33.61	33.48	33.53			
11		33.46	33.61	33.48	33.51	33.74	33.57	33.64	33.60	33.61	33.51	33.48	33.46			
12		33.40	33.38	33.58	33.48	33.66	33.61	33.73	33.66	33.55	33.53	33.58	33.55			
13		33.30	33.49	33.55	33.53	33.67	33.67	33.67	33.67	33.61	33.51	33.53	33.44			
14		33.30	33.54	33.37	33.57	33.77	33.62	33.78	33.57	33.58	33.55	33.57	33.44			
15		33.28	33.62	33.37	33.53	33.75	33.68	33.74	33.68	33.57	33.53	33.57	33.50			
16		33.38	33.42	33.30	33.57	33.58	33.70	33.80	33.61	33.51	33.57	33.49	33.35			
17		33.31	33.42	33.55	33.37	33.69	33.67	33.75	33.68	33.53	33.54	33.53	33.39			
18		33.35	33.31	33.42	33.50	33.50	33.66	33.71	33.81	33.62	33.60	33.44	33.47			
19			33.51	33.50	33.50	33.53	33.64	33.70	33.68	33.64	33.61	33.54	33.35			
20		33.44	33.67	33.53	33.54	33.39	33.67	33.75	33.80	33.49	33.57	33.54	33.39			
21		33.35	33.41	33.39	33.69	33.53	33.55	33.67	33.70	33.53	33.54	33.55	33.46			
22		33.39	33.55	33.41	33.66	33.46	33.61	33.66	33.81	33.58	33.50	33.53	33.46			
23		33.50	33.49	33.47	33.57	33.37	33.55	33.60	33.61	33.62	33.49	33.40	33.47			
24		33.41	33.53	33.51	33.57	33.42	33.68	33.58	33.68	33.66	33.50	33.42	33.46			
25		33.34	33.55	33.58	33.62	33.61	33.70	33.64	33.57	33.57	33.39	33.51	33.51			
26		33.42	33.58	33.67	33.70	33.57	33.64	33.61	33.64	33.48	33.51	33.53	33.39			
27		33.50	33.50	33.55	33.68	33.57	33.55	33.61	33.54	33.47	33.42	33.48	33.44			
28		33.40	33.55	33.50	33.50	33.67	33.61	33.57	33.58	33.51	33.54	33.42	33.51			
29		33.54	33.40	33.42	33.50	33.66	33.67	33.67	33.68	33.64	33.54	33.50	33.48			
30		33.41		33.50	33.57	33.62	33.57	33.53	33.70	33.53	33.71	33.51	33.44			
31		33.39		33.53		33.58		33.69	33.70		33.61					
MEAN		33.37	33.48	33.49	33.58	33.58	33.63	33.66	33.66	33.58	33.54	33.51	33.44	33.54		
MAX.		33.54	33.67	33.67	33.70	33.77	33.74	33.80	33.81	33.71	33.71	33.60	33.55		33.81	
MIN.		33.19	33.26	33.30	33.37	33.37	33.54	33.53	33.54	33.47	33.39	33.40	33.34			33.19
RANGE		.35	.41	.37	.33	.40	.20	.27	.27	.24	.32	.20	.21			
STD.DEV.		.08	.10	.09	.09	.10	.05	.06	.07	.06	.07	.05	.05			

SEA WATER SUMMARY: Temperatures Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	13.30	14.00	11.20	12.80	13.10	13.90	15.80	17.80	17.80	16.30	16.80	13.40			
2		13.40	13.90	12.20	13.10	12.80	13.40	14.70	17.20	17.40	15.80	16.60	13.80			
3		13.70	14.00	12.20	12.90	13.80	13.00	14.60	17.50	17.50	15.30	16.80	14.40			
4		14.10	14.20	12.00	13.00	13.40	13.50	14.20	17.40	17.60	17.00	16.80	13.60			
5		13.80	14.50	12.20	13.40	12.60	14.10	14.00	17.50	17.20	17.30	16.90	13.70			
6		13.30	14.60	14.20	13.20	14.20	15.90	16.80	17.80	17.80	17.60	16.20	13.46			
7		13.30	14.70	13.80	12.90	13.90	14.40	16.90	18.20	16.80	17.40	15.80	13.70			
8		14.00	14.60	13.50	13.00	13.40	15.00	17.60	17.60	15.60	17.30	15.80	13.20			
9		14.50	13.20	14.00	12.80	13.00	14.80	18.90	17.40	13.60	16.00	16.40	13.66			
10		14.40	13.80	14.20	12.40	12.90	14.90	20.02	17.60	13.60	15.30	16.20	13.40			
11		14.20	12.80	14.00	13.20	13.20	14.30	19.40	17.40	13.60	14.90	16.20	12.00			
12		14.60	13.80	14.40	12.40	13.00	13.80	19.40	17.20	14.80	16.50	15.80	12.80			
13		14.60	13.20	12.00	12.80	14.00	13.40	17.80	17.00	15.40	16.50	16.00	12.50			
14		14.20	13.80	12.20	13.20	12.80	13.50	17.90	17.80	15.20	17.10	15.50	12.90			
15		13.40	14.20	12.20	14.10	12.40	13.40	19.80	17.40	15.80	16.20	16.00	12.80			
16		13.20	13.80	13.80	13.40	13.40	14.90	18.40	17.40	15.50	16.80	15.60	13.90			
17		13.20	13.40	13.20	13.80	13.50	14.50	17.80	17.80	15.80	17.10	15.50	13.80			
18		13.40	12.50	14.20	14.20	13.20	17.30	18.00	17.80	15.90	17.80	13.50	13.50			
19		13.60	12.40	13.00	14.00	13.40	14.80	18.20	18.00	16.50	17.20	13.60	14.40			
20		13.20	12.20	13.20	13.60	13.00	17.40	17.90	17.40	16.00	15.10	13.10	13.50			
21		13.00	12.20	13.10	13.80	13.90	17.60	17.80	17.60	16.00	15.60	13.00	13.50			
22		13.00	12.20	14.00	14.00	13.90	17.40	17.40	18.00	15.60	15.00	12.90	13.40			
23		13.60	12.30	11.60	14.00	13.40	16.90	18.50	18.20	14.90	15.50	12.50	13.40			
24		13.60	12.60	13.10	13.40	13.20	17.70	16.40	18.20	14.80	15.60	13.00	13.60			
25		14.00	12.30	12.50	13.80	12.70	17.40	17.00	17.20	14.60	15.90	14.10	13.80			
26		13.20	12.90	12.50	13.20	13.70	18.00	17.80	16.00	14.40	16.00	13.50	14.20			
27		12.80	13.80	13.00	14.20	13.40	16.80	18.60	16.90	14.00	16.60	14.40	14.10			
28		12.40	12.80	13.20	13.80	13.60	16.80	17.60	16.80	14.80	16.50	14.20	13.80			
29		12.60		13.40	13.30	13.80	16.40	18.40	17.80	15.10	16.20	14.20	14.20			
30		13.90		12.40	13.40	13.70	14.60	17.40	17.40	16.20	15.70	14.10	13.50			
31		13.60		13.00		13.40		17.60	17.20		17.00		14.50			
MEAN		13.58	13.38	13.02	13.37	13.35	15.33	17.50	17.60	15.66	16.33	15.03	13.56	14.80		
MAX.		14.60	14.70	14.40	14.20	14.20	18.00	20.02	18.20	17.80	17.80	16.90	14.50		20.02	
MIN.		12.40	12.20	11.20	12.40	12.40	13.00	14.00	16.00	13.60	14.90	12.50	12.00			11.20
RANGE		2.20	2.50	3.20	1.80	1.80	5.00	6.02	2.20	4.20	2.90	4.40	2.50			
STDDEV		.57	.68	.78	.49	.43	1.27	1.57	.49	1.15	.74	1.13	.60			

SEA WATER SUMMARY: Salinities
Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX	MIN.
1	1963	33.54	33.44	33.36	33.51	33.51	33.62	33.70	33.60	33.55	33.57	33.67	33.46			
2		33.51	33.42	33.38	33.51	33.39	33.67	33.67	33.57	33.60	33.66	33.73	33.51			
3		33.44	33.39	33.31	33.55	33.57	33.64	33.70	33.67	33.68	33.62	33.74	33.47			
4		33.57	33.37	33.44	33.70	33.61	33.68	33.75	33.68	33.64	33.57	33.71	33.38			
5		33.60	33.47	33.33	33.54	33.44	33.60	33.74	33.66	33.57	33.67	33.68	33.33			
6		33.35	33.33	33.30	33.69	33.54	33.60	33.69	33.53	33.54	33.57	33.66	33.49			
7		33.34	33.40	33.40	33.68	33.44	33.70	33.66	33.58	33.68	33.53	33.69	33.46			
8		33.42	33.55	33.47	33.57	33.48	33.60	33.77	33.61	33.51	33.57	33.66	33.54			
9		33.41	33.51	33.40	33.57	33.57	33.67	33.81	33.47	33.64	33.57	33.71	33.51			
10		33.47	33.39	33.49	33.62	33.51	33.67	33.71	33.48	33.64	33.62	33.78	33.66			
11		33.41	33.49	33.58	33.53	33.42	33.70	33.74	33.57	33.64	33.62	33.71	33.50			
12		33.47	33.54	33.53	33.57	33.51	33.64	33.71	33.57	33.67	33.61	33.69	33.49			
13		33.30	33.49	33.44	33.64	33.54	33.64	33.68	33.54	33.70	33.71	33.57	33.60			
14		33.38	33.51	33.42	33.57	33.62	33.73	33.60	33.69	33.53	33.67	33.69	33.55			
15		33.50	33.48	33.40	33.60	33.64	33.62	33.67	33.75	33.66	33.66	33.67	33.51			
16		33.44	33.50	33.49	33.54	33.60	33.64	33.62	33.70	33.70	33.61	33.61	33.60			
17		33.46	33.55	33.35	33.42	33.57	33.64	33.70	33.64	33.55	33.58	33.60	33.58			
18		33.47	33.37	33.34	33.49	33.67	33.62	33.66	33.71	33.68	33.60	33.55	33.49			
19		33.53	33.46	33.55	33.55	33.67	33.57	33.57	33.66	33.67	33.54	33.71	33.44			
20		33.50	33.55	33.48	33.58	33.69	33.60	33.66	33.51	33.62	33.55	33.61	33.39			
21		33.57	33.51	33.55	33.64	33.69	33.71	33.55	33.57	33.55	33.69	33.66	33.48			
22		33.40	33.46	33.49	33.58	33.62	33.71	33.54	33.54	33.51	33.71	33.53	33.46			
23		33.51	33.41	33.46	33.57	33.57	33.61	33.67	33.61	33.58	33.60	33.53	33.47			
24		33.53	33.49	33.53	33.50	33.57	33.73	33.51	33.51	33.60	33.60	33.61	33.58			
25		33.38	33.40	33.54	33.49	33.60	33.67	33.75	33.58	33.60	33.70	33.57	33.54			
26		33.44	33.39	33.46	33.58	33.47	33.61	33.66	33.64	33.67	33.60	33.58	33.54			
27		33.39	33.50	33.47	33.48	33.58	33.68	33.64	33.66	33.61	33.66	33.60	33.44			
28		33.41	33.42	33.57	33.47	33.57	33.64	33.54	33.58	33.57	33.58	33.60	33.53			
29		33.40		33.57	33.54	33.58	33.70	33.66	33.66	33.57	33.66	33.58	33.55			
30		33.40		33.50	33.50	33.57	33.67	33.58	33.69	33.67	33.57	33.53	33.51			
31		33.54		33.60		33.54		33.54	33.68		33.75		33.47			
MEAN		33.45	33.46	33.46	33.56	33.56	33.65	33.66	33.61	33.61	33.62	33.64	33.50	33.56		
MAX.		33.60	33.55	33.60	33.70	33.69	33.73	33.81	33.75	33.70	33.76	33.78	33.66		33.81	
MIN.		33.30	33.33	33.30	33.42	33.39	33.57	33.51	33.47	33.51	33.53	33.53	33.33			33.30
RANGE		.30	.22	.30	.28	.30	.16	.30	.28	.19	.22	.25	.33			
STD.DEV.		.07	.06	.08	.07	.08	.04	.07	.07	.05	.05	.06	.07			

SEA WATER SUMMARY: Temperatures Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	14.40	13.60	14.80	13.20	13.90	17.00	17.50	20.20	16.50	16.40	14.60	15.00			
2		14.60	13.60	14.20	13.60	12.60	16.90	18.50	21.40	16.80	15.60	15.20	14.60			
3		14.00	13.90	14.60	14.20	14.10	16.40	18.30	20.50	19.80	14.90	15.10	15.30			
4		14.20	13.00	14.90	13.90	13.80	15.90	18.20	21.00	18.60	15.70	14.80	15.90			
5		14.20	13.90	15.00	14.20	13.50	15.60	17.80	21.30	18.50	15.10	15.80	15.60			
6		14.90	14.10	14.20	14.00	14.10	15.60	17.60	20.30	19.80	16.10	15.50	14.70			
7		14.00	13.50	13.50	13.90	13.40	15.40	15.80	19.40	18.60	16.00	15.80	14.80			
8		14.10	13.90	14.20	14.00	12.80	14.80	15.40	18.30	19.40	16.10	15.20	15.20			
9		14.30	14.20	14.00	13.50	14.20	14.60	15.60	19.50	19.40	15.30	14.80	14.70			
10		14.20	14.80	13.60	14.20	14.40	14.60	15.80	20.20	19.20	16.20	14.60	14.30			
11		14.00	14.20	12.80	13.50	14.80	15.50	17.80	19.10	19.60	16.50	15.00	12.70			
12		14.10	14.00	11.80	14.10	14.90	15.00	16.80	20.00	18.60	16.40	14.60	11.70			
13		14.00	13.00	12.50	13.90	14.90	16.60	17.00	18.80	18.20	16.80	15.20	13.10			
14		14.90	13.10	12.40	14.20	14.80	16.40	16.80	19.20	17.40	16.60	15.40	13.70			
15		14.60	13.10	12.20	14.20	13.60	17.40	17.50	19.50	17.10	16.50	15.80	14.40			
16		13.90	14.30	11.20	14.20	14.00	17.50	16.90	18.60	17.80	15.00	15.60	14.70			
17		13.80	13.40	11.00	13.40	14.10	16.80	17.10	18.50	17.60	14.90	14.90	14.40			
18		14.00	13.40	11.50	13.40	14.90	17.20	19.30	18.50	18.00	14.50	14.90	14.20			
19		13.90	13.10	11.90	13.60	14.50	18.80	19.40	18.90	17.50	14.60	14.80	14.30			
20		14.30	13.40	13.50	13.50	13.70	18.60	19.80	18.60	17.00	14.20	14.70	13.60			
21		14.30	13.50	13.20	13.40	13.40	18.90	18.80	18.50	16.80	14.70	14.70	14.00			
22		13.90	14.00	13.20	13.00	15.30	18.00	19.60	17.60	15.00	15.20	16.90	13.85			
23		13.40	14.10	13.50	13.40	15.00	17.90	19.80	18.40	16.10	14.90	15.20	14.00			
24		14.00	14.50	13.40	14.40	14.90	17.60	19.60	18.00	18.30	15.20	15.00	14.00			
25		13.90	14.80	13.90	15.20	15.00	17.40	20.80	18.90	17.80	15.40	15.10	13.40			
26		14.00	14.40	12.00	15.30	15.50	16.90	20.00	19.00	17.80	15.80	15.20	12.50			
27		14.20	15.30	13.60	14.80	15.40	18.10	20.00	17.80	16.10	14.90	15.40	12.20			
28		13.80	14.90	14.20	15.10	15.40	17.50	20.00	18.90	15.60	14.50	16.10	11.05			
29		13.60		13.20	13.90	16.00	17.40	20.50	18.60	16.80	15.10	15.80	11.20			
30		13.80		12.90	13.50	16.50	17.00	20.60	18.40	16.80	15.60	14.70	12.02			
31		13.90		12.50		16.30		20.00	16.80		15.40		12.86			
MEAN		14.10	13.89	13.21	13.96	14.51	16.78	18.34	19.12	17.75	15.49	15.21	13.81	15.51		
MAX.		14.90	15.30	15.00	15.30	16.50	18.90	20.80	21.40	19.80	16.80	16.90	15.90		21.40	
MIN.		13.40	13.00	11.00	13.00	12.60	14.60	15.40	16.80	15.00	14.20	14.60	11.05			11.00
RANGE		1.50	2.30	4.00	2.30	3.90	4.30	5.40	4.60	4.80	2.60	2.30	4.85			
STD.DEV.		.38	.58	1.04	.59	1.00	1.16	1.41	1.12	1.23	.64	.52	1.25			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	33.51	33.50	33.50	33.30	33.66	33.44	33.74	33.62	33.62	33.55	33.62	33.54			
2		33.58	33.53	33.51	33.33	33.71	33.53	33.71	33.62	33.70	33.62	33.61	33.57			
3		33.50	33.50	33.57	33.30	33.66	33.62	33.69	33.71	33.69	33.61	33.53	33.55			
4		33.51	33.48	33.54	33.42	33.48	33.49	33.71	33.71	33.66	33.60	33.51	33.55			
5		33.51	33.48	33.57	33.47	33.54	33.66	33.70	33.66	33.64	33.54	33.54	33.44			
6		33.57	33.38	33.48	33.44	33.58	33.57	33.67	33.69	33.67	33.57	33.50	33.62			
7		33.50	33.41	33.47	33.44	33.64	33.62	33.71	33.67	33.70	33.51	33.55	33.57			
8		33.50	33.46	33.55	33.48	33.66	33.51	33.66	33.69	33.64	33.51	33.57	33.57			
9		33.51	33.50	33.46	33.42	33.60	33.57	33.71	33.69	33.68	33.49	33.58	33.53			
10		33.42	33.39	33.39	33.50	33.55	33.66	33.62	33.71	33.64	33.55	33.57	33.53			
11		33.49	33.46	33.37	33.54	33.64	33.60	33.64	33.74	33.61	33.46	33.48	33.60			
12		33.41	33.44	33.42	33.55	33.60	33.62	33.67	33.69	33.67	33.41	33.50	33.58			
13		33.48	33.47	33.46	33.48	33.58	33.62	33.66	33.67	33.67	33.44	33.46	33.49			
14		33.48	33.50	33.44	33.51	33.57	33.62	33.64	33.61	33.67	33.49	33.54	33.48			
15		33.48	33.48	33.42	33.57	33.53	33.66	33.67	33.64	33.73	33.51	33.58	33.46			
16		33.46	33.51	33.39	33.58	33.44	33.64	33.66	33.70	33.64	33.61	33.50	33.48			
17		33.57	33.47	33.40	33.60	33.62	33.60	33.69	33.68	33.67	33.51	33.51	33.61			
18		33.48	33.51	33.41	33.53	33.57	33.66	33.68	33.69	33.71	33.48	33.54	33.56			
19		33.47	33.51	33.40	33.51	33.54	33.69	33.62	33.68	33.62	33.50	33.54	33.55			
20		33.44	33.46	33.44	33.73	33.62	33.58	33.60	33.58	33.57	33.50	33.49	33.51			
21		33.35	33.48	33.46	33.57	33.50	33.64	33.57	33.60	33.68	33.50	33.57	33.50			
22		33.40	33.48	33.53	33.62	33.54	33.66	33.66	33.64	33.66	33.53	33.55	33.50			
23		33.39	33.39	33.51	33.67	33.60	33.71	33.58	33.61	33.67	33.49	33.58	33.57			
24		33.53	33.47	33.58	33.54	33.57	33.64	33.61	33.77	33.69	33.58	33.48	33.49			
25		33.57	33.48	33.61	33.49	33.57	33.70	33.60	33.75	33.57	33.60	33.58	33.44			
26		33.54	33.49	33.53	33.57	33.61	33.64	33.55	33.68	33.57	33.57	33.51	33.39			
27		33.50	33.42	33.50	33.62	33.53	33.67	33.61	33.61	33.62	33.57	33.67	33.39			
28		33.42	33.46	33.51	33.57	33.53	33.68	33.64	33.61	33.64	33.55	33.58	33.47			
29		33.57		33.54	33.51	33.53	33.62	33.66	33.68	33.69	33.54	33.60	33.55			
30		33.50		33.58	33.50	33.55	33.75	33.70	33.71	33.58	33.62	33.62	33.50			
31		33.51		33.40		33.48		33.69	33.81		33.66		33.50			
MEAN		33.49	33.47	33.48	33.51	33.57	33.62	33.66	33.67	33.65	33.54	33.55	33.52	33.56		
MAX.		33.58	33.53	33.61	33.73	33.71	33.75	33.74	33.81	33.73	33.66	33.67	33.62		33.81	
MIN.		33.35	33.38	33.37	33.30	33.44	33.44	33.55	33.58	33.57	33.41	33.46	33.39			33.30
RANGE		.23	.15	.24	.43	.27	.31	.19	.23	.16	.25	.21	.23			
STD.DEV.		.06	.04	.06	.11	.06	.07	.04	.05	.04	.06	.05	.06			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: PORT HUENEME, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	12.65	13.50	13.60	15.75	13.80	14.20	13.85	15.20	18.05	14.25	15.5	12.85			
2		12.10	12.25	13.50	15.20	12.10	15.20	15.50	14.80	18.20	14.40	15.20	12.6			
3		12.02	11.60	13.00	15.70	11.75	15.2	14.60	15.85	18.00	15.0	15.20	12.2			
4		12.40	11.60	14.50	13.65	13.90	14.2	14.90	17.60	16.20	13.95	14.20	12.80			
5		11.85	11.00	13.50	13.20	13.70	14.1	15.20	17.40	15.90	14.85	14.80	12.80			
6		12.20	12.00	13.70	12.60	13.60	14.5	14.25	18.60	16.20	15.95	16.45	12.90			
7		12.90	10.70	12.20	13.70	15.20	14.85	14.60	18.00	17.00	16.20	15.60	12.85			
8		12.85	10.60	13.15	13.40	15.50	14.90	18.40	17.35	16.20	16.30	16.10	12.2			
9		13.30	10.30	13.20	13.56	14.10	15.60	18.60	16.00	15.90	14.60	15.55	12.40			
10		12.60	10.15	13.70	13.95	13.85	14.85	18.20	16.30	16.00	15.20	15.45	12.30			
11		12.45	11.10	14.20	13.05	13.70	15.0	17.00	16.40	15.85	15.35	16.10	12.70			
12		13.20	11.30	14.65	14.10	14.90	15.2	18.10	16.35	15.35	15.0	15.90	12.70			
13		13.20	12.30	15.00	12.40	14.00	14.90	17.10	16.60	14.40	16.20	15.2	12.20			
14		12.40	12.45	14.70	12.35	13.75	14.85	16.95	16.10	15.40	16.5	14.5	12.60			
15		12.40	12.65	14.10	12.10	13.20	14.60	17.70	16.80	13.60	16.5	13.20	12.35			
16		12.20	12.65	15.20	11.60	12.75	13.45	15.70	15.60	14.35	15.95	14.90	12.20			
17		12.45	13.10	13.10	14.05	11.50	13.85	15.80	15.75	14.20	15.40	14.10	12.50			
18		12.85	12.60	13.80	11.20	13.50	13.50	16.90	15.00	16.0	16.20	13.90	12.60			
19		12.80	11.90	14.35	11.00	12.20	14.10	15.70	15.20	16.20	15.35	13.80	13.40			
20		11.60	11.25	14.00	10.70	14.20	15.80	14.60	14.20	15.90	15.20	14.20	13.40			
21		12.00	11.20	14.40	11.85	14.55	15.40	14.90	13.90	17.30	15.70	13.5	13.80			
22		12.10	12.25	13.40	11.20	13.55	14.90	14.70	14.10	16.40	16.20	13.0	13.15			
23		12.90	13.10	13.25	12.00	13.90	13.85	15.40	14.95	16.10	15.80	13.40	14.0			
24		12.90	12.20	13.20	12.10	14.50	15.40	14.10	16.20	16.0	16.10	14.0	13.40			
25		12.85	12.30	12.85	13.20	13.95	13.70	14.90	16.90	16.5	16.40	13.30	13.10			
26		12.80	11.60	14.65	12.15	15.10	14.20	15.40		16.0	14.10	13.60	13.20			
27		11.80	12.60	15.50	12.60	16.50	14.25	15.20	15.10	16.20	14.50	12.10	13.50			
28		13.00	12.80	16.10	13.20	14.5	14.20	15.35	14.20	16.5	14.40	12.90	12.40			
29		13.20		15.60	13.00	16.15	13.95	14.40	16.00	14.30	14.25	13.20	12.90			
30		12.90		15.50	12.80	14.10	14.20	14.40	15.75	15.40	14.80	13.10	12.20			
31		13.00		15.20		14.30		15.50	16.20		15.70		12.90			
MEAN		12.58	11.89	14.09	12.91	13.95	14.56	15.74	15.95	15.99	15.33	14.40	12.81	14.18		
MAX.		13.30	13.50	16.10	15.75	16.50	15.80	18.60	18.60	18.20	16.50	16.45	14.00		18.60	
MIN.		11.60	10.15	12.20	10.70	11.50	13.45	13.85	13.90	13.60	13.95	12.10	12.20			10.15
RANGE		1.70	3.35	3.90	5.05	5.00	2.35	4.75	4.70	4.60	2.55	4.35	1.80			
STD.DEV.		.45	.87	.94	1.26	1.12	.63	1.36	1.15	1.08	.77	1.13	.48			

SEA WATER SUMMARY: Salinities Daily Surface

STATION: Port Hueneme, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1955	33.51	33.57	33.53	33.44	33.58	33.26	34.36	31.17	33.36	33.41	33.41	33.43			
2		33.51	33.46	33.47	33.57	33.62	33.39	33.58	33.06	33.37	33.67	33.39	33.36			
3		33.48	33.51	33.47	33.53	33.62	33.49	32.97	33.42	33.04	33.23	34.04	32.60			
4		33.38	33.49	33.53	33.58	33.64	33.51	33.26	33.40	33.37	33.62	33.48	33.59			
5		33.37	33.44	33.49	33.41	33.68	33.28	32.61	33.44	33.33	33.45	33.55	33.64			
6		33.37	33.33	33.49	33.42	33.69	33.30	33.46	33.42	33.47	33.61	33.59	33.59			
7		33.44	33.36	33.47	33.48	33.61	33.36	33.48	33.60	33.46	33.53	33.64	33.58			
8		33.47	33.46	33.46	33.51	33.61	33.28	33.60	33.49	33.47	33.51	33.63	33.49			
9		33.47	33.36	33.42	33.49	33.62	33.32	33.51	33.38	33.44	32.43	33.53	33.51			
10		33.46	33.39	33.41	33.57	33.58	33.50	33.51	33.26	33.43	38.22	33.60	33.40			
11		33.48	33.42	33.40	33.64	33.62	33.44	33.49	33.30	33.44	33.45	33.60	33.67			
12		33.41	33.39	33.39	33.62	33.62	33.48	33.58	33.40	33.39	33.48	33.39	33.55			
13		33.37	33.35	33.37	33.51	33.64	33.48	33.09	33.06	33.43	33.24	33.41	33.35			
14		33.31	33.41	33.41	33.55	33.62	33.48	33.10	33.36	33.39	33.03	33.01	33.28			
15		33.40	33.49	33.47	33.50	33.67	33.51	33.46	33.41	33.38	33.04	33.01	33.48			
16		33.35	33.50	33.50	33.48	33.66	33.43	33.15	33.10	33.06	33.48	33.42	33.44			
17		33.30	33.51	33.57	33.57	33.62	33.32	33.27	33.48	33.07	33.67	33.53	33.68			
18		33.31	33.49	33.64	33.61	33.61	33.24	33.57	33.33	33.30	33.48	34.11	33.44			
19		33.30	33.49	33.50	33.60	33.68	32.94	33.89	33.29	33.35	33.33	33.48	33.52			
20		33.39	33.40	33.53	33.60	33.57	33.48	33.48	33.67	33.50	33.46	33.55	33.52			
21		33.44	33.57	33.50	33.60	33.60	33.46	33.63	33.31	33.50	33.37	33.35	31.01			
22		33.46	33.49	33.44	33.55	33.60	33.46	33.48	33.42	33.28	33.29	33.48	32.23			
23		33.42	33.49	33.64	33.57	33.57	33.19	33.28	33.47	33.31	33.48	33.57	33.35			
24		33.34	33.53	33.50	33.53	33.66	33.21	33.45	33.03	33.43	33.67	33.45	32.33			
25		33.44	33.51	33.42	33.66	33.69	33.35	33.69	33.49	33.40	33.40	33.64	32.23			
26		33.50	33.57	33.48	33.58	33.67	33.19	33.50	32.52	33.46	33.33	33.48	32.17			
27		33.48	33.61	33.47	33.57	33.57	33.40	33.35	33.19	33.45	33.28	33.33	31.02			
28		33.49	33.55	33.50	33.64	33.44	33.19	33.47	33.08	33.48	33.52	33.25	32.29			
29		33.44		33.48	33.68	33.46	33.24	33.37	33.40	33.48	33.42	33.30	32.65			
30		33.46		33.50	33.66	33.33	33.60	33.17	32.99	33.36	33.27	33.64	33.33			
31		33.54		33.53		33.38		33.46	33.39		33.37		33.36			
MEAN		33.42	33.47	33.48	33.56	33.60	33.36	33.42	33.22	33.37	33.38	33.50	33.07	33.40		
MAX.		33.54	33.61	33.64	33.68	33.69	33.60	34.36	33.60	33.50	33.67	34.11	33.68		34.36	
MIN.		33.30	33.33	33.37	33.41	33.33	32.94	32.61	31.17	33.04	32.43	33.01	31.01			31.01
RANGE		.24	.28	.27	.27	.36	.66	1.75	2.43	.46	1.24	1.10	2.67			
STD.DEV.		.07	.07	.06	.07	.08	.14	.29	.43	.12	.23	.22	.72			

SEA WATER SUMMARY: TEMPERATURES — STATION: PORT HUENEME, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	13.20	12.65	12.5	12.10	15.60	16.0	16.90	16.45	16.5	16.4	12.8	14.5			
2		13.60	12.60	12.20	12.20	14.80	14.20	17.20	16.70	17.4	17.9	12.9	14.4			
3		13.40	12.35	12.25	12.5	15.20	13.40	17.00	16.80	17.5	17.8	12.40	14.25			
4		12.70	12.40	12.10	12.30	15.08	12.40	15.70	16.80	17.25	17.6	13.4	14.0			
5		12.20	12.40	12.80	11.40	16.40	14.0	16.20	17.30	18.40	17.9	12.8	14.8			
6		12.90	12.40	12.0	11.80	16.0	13.10	16.70	16.40	17.15	16.65	13.8	14.3			
7		11.90	12.0	10.90	12.40	13.40	12.40	17.20	16.80	15.2	16.9	13.2	14.2			
8		12.10	11.90	10.0	12.55	14.20	15.30		17.40	15.1	16.2	13.3	12.8			
9		10.40	11.95	10.6	12.60	14.60	15.0	16.20	17.80	16.2	16.6	13.6	12.0			
10		11.50	11.90	11.40	12.90	14.45	15.80	15.40	16.80	15.8	15.4	14.2	12.6			
11		12.0	12.40	11.60	11.90	14.50	15.90	16.45	17.30	15.35	15.7	14.2	13.6			
12		11.52	12.40	11.20	12.45	12.85	15.70	15.90	17.30	14.2	14.8	14.65	14.0			
13		11.60	12.10	11.60	12.70	14.0	16.60	17.50	17.85	14.0	14.8	14.5	14.1			
14		11.70	12.25	11.70	13.65	12.90	14.90	16.60	17.40	13.7	15.0	14.2	14.6			
15		12.00	12.75	11.90	13.90	14.5	14.90	15.70	17.60	13.2	15.4	13.7	14.0			
16		12.45	12.80	13.90	13.20	15.0	16.50	15.30	16.80	13.0	15.2	13.6	14.2			
17		12.60	12.40	12.20	14.40	12.20	14.50	15.60	16.90	13.4	15.4	14.6	14.65			
18		12.10	12.35	14.20	13.50	13.90	14.2	15.40	17.0	13.6	15.3	15.00	14.2			
19		12.20	10.90	14.20	13.10	14.20	15.10	16.30	18.0	14.9	15.0	14.2	14.2			
20		12.60	12.00	13.40	15.60	14.60	14.50	15.90	17.6	14.9	15.8	13.10	15.2			
21		12.40	12.5	13.9	13.20	16.10	16.60	15.60	17.5	15.8	15.85	12.2	14.0			
22		12.60	11.90	12.15	12.20	14.55	15.75	15.60	17.3	16.0	15.3	13.2	13.8			
23		12.35	12.30	12.20	13.0	14.55	16.80	15.80	16.3	16.8	15.6	13.9	14.2			
24		12.40	12.50	12.10	12.20	13.20	16.10	16.50	16.2	15.8	14.5	14.0	14.2			
25		12.60	11.50	12.90	13.60	13.40	16.40	16.80	17.6	15.4	12.9	14.2	13.9			
26		13.0	11.80	12.95	16.60	13.50	16.70	16.70	17.7	14.7	12.9	14.4	13.25			
27		12.15	12.10	12.80	15.90	13.30	17.60	16.20	17.5	13.4	15.1	14.5	13.9			
28		12.60	12.25	13.90	15.40	13.60	18.20	16.50	17.35	14.6	14.4	14.6	13.2			
29		12.50	12.20	13.50	14.70	14.2	16.80	16.50	17.0	13.7	14.2	14.45	14.7			
30		12.40		14.5	13.80	14.60	17.80	16.50	17.35	16.6	13.3	14.20	14.2			
31		12.60		11.90		15.0		16.60	17.4		13.5		13.6			
MEAN.		12.33	12.21	12.43	13.23	14.33	15.44	16.25	17.17	15.32	15.46	13.79	13.99	14.33		
MAX.		13.60	12.80	14.50	15.90	16.40	18.20	17.50	18.0	18.40	17.9	15.00	15.2		18.40	
MIN.		10.40	10.90	10.0	11.40	12.20	12.40	15.30	16.2	13.0	12.9	12.20	12.0			10.00
RANGE		3.20	1.90	4.5	4.50	4.20	5.80	2.20	1.8	5.40	5.0	2.80	3.2			
STD.DEV.		.69	.44	1.10	1.13	1.01	1.53	.55	.45	1.32	1.36	.69	.70			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: PORT HUENEME, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC	MEAN	MAX.	MIN.
1	1956	33.37		33.61	33.12	32.38	33.46	33.03	33.10	32.62	33.15	33.39	33.30			
2		33.37	32.85	33.53	32.86	33.50	33.62	33.22	33.14	32.66	33.17	33.37	33.34			
3		33.48	33.14	33.62	33.62	33.55	33.29	32.03	32.34	31.44	33.12	33.47	33.40			
4		33.34	32.89	33.62	33.50	33.68	33.44	33.31	33.01	32.00	33.06	33.57	33.37			
5		33.54	33.04	33.58	33.13	33.51	32.98	32.00	33.01	33.37	33.30	33.39	33.20			
6		33.37	33.31	33.41	33.42	32.56	32.72	33.46	33.12	33.49	33.43	33.39	33.34			
7		33.42	33.33	33.62	32.79	32.94	33.24	32.20	32.94	33.16	33.30	33.37	33.32			
8		31.02	32.99	33.48	33.30	33.60	33.12	32.96	32.74	32.99	33.28	33.44	33.33			
9		33.37	32.51	33.43	32.75	33.53	32.27	33.31	32.95	33.01	33.26	33.42				
10		33.78	33.15	33.34	33.30	33.58	32.43	33.33	33.31	32.81	33.41	33.45	33.66			
11		33.38	33.22	33.64	33.67	33.49	31.17	33.26	33.20	33.03	33.33	32.97	33.64			
12		33.26	32.99	33.62	33.45	33.24	28.24	32.72	32.92	32.83	33.44	33.44				
13		33.51	32.97	32.52	33.22	34.48	33.40	33.48	33.04	32.50	33.49	33.48	33.40			
14		33.55	32.80	32.55	33.19	33.73	33.36	33.40	31.73	32.18	33.40	33.44				
15		33.83	33.07	32.21	33.53	33.46	33.30	33.20	33.39	32.10	33.06	33.44	33.32			
16		32.68	33.24	33.42	33.35	33.46	33.53	33.05	31.87	32.59	33.39	33.37	33.39			
17		33.41	33.37	32.77	33.62	33.34	33.10	32.99	33.26	32.97	33.40	33.53	33.58			
18		33.53	33.38	33.27	33.39	32.98	31.80	31.91	33.37	33.04	33.58	33.46	33.57			
19		32.69	33.28	33.15	33.35	33.46	32.60	30.16	32.97	32.41	33.62	33.54	33.57			
20		33.54	33.19	33.29	33.47	33.52	33.26	33.04	32.43	32.86	33.39	33.34	33.74			
21		33.50	33.24	33.35	32.99	33.62	33.36	32.42	32.61	33.08	33.33	33.55	33.57			
22		33.66	33.25	33.24	33.00	33.53	30.95	33.05	31.79	33.15	33.35	33.73	33.68			
23		33.25	33.23	32.89	34.29	33.48	32.66	31.16	33.12	32.27	33.46	33.60	33.59			
24		33.60	32.00	33.36	31.78	33.04	33.53	32.93	31.92	33.04	33.43	33.54	33.67			
25		23.64	32.52	33.67	33.03	33.22	33.44	33.27	33.13	32.83	33.57	33.67	33.78			
26		23.67	33.57	33.75	31.85	33.18	32.94	32.48	32.89	32.27	33.46	33.35	33.68			
27		24.04	33.14	33.27	32.20	32.95	33.35	32.57	32.94	33.15	33.24	33.30	33.70			
28		32.25	33.42	33.39	33.61	33.58	33.40	32.15	33.31	32.57	33.44	33.40	33.59			
29			33.60	33.49	33.30	33.57	33.15	33.13	32.92	32.47	33.42	33.46	33.69			
30		32.31		33.11	31.80	32.61	32.83	33.30	32.77	32.92	33.39	33.51	33.62			
31		29.07		32.90		32.57		33.19	32.81		33.41		33.67			
MEAN		32.15	33.10	33.30	33.13	33.33	32.80	32.76	32.84	32.73	33.36	33.45	33.52	33.04		
MAX.		33.83	33.60	33.75	34.29	34.48	33.62	33.48	33.39	33.49	33.62	33.73	33.78		34.48	
MIN.		23.64	32.00	32.21	31.78	32.38	28.24	30.16	31.73	31.44	33.06	32.97	33.20			23.64
RANGE		10.19	1.60	1.54	2.51	2.10	5.38	3.32	1.66	2.05	.56	.76	.58			
STD.DEV.		.277	.37	.36	.60	.44	1.08	.90	.44	.47	.14	.15	.14			

SEA WATER SUMMARY: TEMPERATURES — DAILY SURFACE STATION: HUENEME, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1957	14.20	11.50	13.90	12.40	15.00	15.60	18.10	16.20	17.40	14.60	17.00	15.10			
2		13.90	11.80	13.10	12.20	15.00	16.20	17.60	16.40	19.00	14.90	17.60	15.20			
3		12.80	11.90	12.50	11.90	14.90	15.10	16.90	17.20	17.80	16.00	17.40	15.60			
4		14.10	11.50	12.80	12.70	14.40	15.90	15.80	16.90	16.90	15.90	17.20	15.50			
5		13.90	12.20	12.50	13.30	15.50	15.00	16.80	16.90	16.80	15.60	18.20	15.30			
6		13.65	12.80	13.00	13.70	15.80	15.20	16.20	17.00	16.40	15.60	18.70	15.60			
7		13.80	12.00	12.40	13.80	16.10	14.30	18.00	17.10	16.80	15.10	17.40	15.70			
8		14.00	12.70	12.80	13.70	16.30	14.20	17.90	18.20	18.40	16.00	16.90	15.10			
9		14.20	12.90	12.40	13.80	15.00	14.00	19.60	18.80	20.00	16.20	16.90	15.70			
10		13.80	13.00	12.00	14.10	14.20	14.00	19.90		19.40	16.40	17.10	15.70			
11		14.00	13.10	12.00	13.50	13.90	14.40	19.70	19.40	16.60	16.10	17.30	15.50			
12		14.80	13.10	11.95	13.80	13.90	14.80	20.30	19.50	16.10	17.20	16.60	16.10			
13		15.00	13.20	12.20	13.30	13.70	16.20	20.00	19.20	16.20	17.20	15.90	15.80			
14		14.80	13.90	11.90	13.80	14.20	16.20		19.20	16.60	17.10	16.60	16.00			
15		14.10	13.30	11.20	14.40	13.90	16.20	19.60	18.80	16.40	17.70	16.70	16.20			
16		14.0	13.10	11.80	13.60	13.60	16.20	19.80	19.30	16.70	17.80	15.50	15.90			
17		13.80	13.30	11.90	14.20	14.50	16.00	18.70	17.00	16.80	17.60	14.90	15.30			
18		12.90	13.40	11.60	14.60	14.20	17.50	20.00	17.80	16.50	18.00	14.50	16.60			
19		12.80	13.20	12.00	13.50	13.60	18.20	20.60	18.80	16.80	17.80	15.20	15.80			
20		12.80	12.80	11.90	12.70	14.70	17.70	18.50	17.80	16.50	17.40	15.90	16.50			
21		12.60	13.30	12.40	12.10	13.80	17.80	18.70	19.20	16.40	17.10	15.20	15.90			
22		12.90	13.70	12.30	13.00	13.60	18.20	18.70	19.00	16.20	16.80	14.10	16.20			
23		12.80	13.40	12.60	13.40	13.20	18.90	18.20	18.40	15.40	18.80	14.10	15.80			
24		13.10	14.40	14.20	13.80	13.40	18.70	17.40	18.60	14.20	17.40	15.00	15.80			
25		12.70	13.70	12.60	12.80	13.20	19.00	17.80	17.80	15.10	17.10	15.10	15.80			
26		12.65	13.80	12.90	13.40	13.80	18.50	18.60	17.90	15.40	16.70	15.10	15.40			
27		12.20	13.40	12.00	14.80	14.60	18.40	18.00	16.50	15.90	16.40	15.00	14.90			
28		11.50	13.20	12.40	15.20	15.20	18.60	19.40	16.40	14.50	17.30	15.20	15.60			
29		11.80		12.10	15.00	15.30	18.20	18.90	16.10	14.40	17.50	15.40	14.40			
30		12.80		12.50	15.00	14.80	18.60	17.50	15.80	15.20	17.80	14.90	14.90			
31		11.90		12.30		15.50		16.80	16.50		16.80		16.10			
MEAN		13.36	12.98	12.39	13.58	14.48	16.59	18.47	17.76	16.56	16.77	16.09	15.68	15.39		
MAX.		15.00	14.40	14.20	15.20	16.30	19.00	20.60	19.50	20.00	18.80	18.70	16.60		20.60	
MIN.		11.50	11.50	11.20	11.90	13.20	14.00	15.80	15.80	14.20	14.60	14.10	14.40			11.20
RANGE		3.50	2.90	3.00	3.30	3.10	5.00	4.80	3.70	5.80	4.20	4.60	2.20			
STD.DEV.		.88	.74	.72	.85	.81	1.35	1.22	.96	1.47	.99	1.19	.51			

SEA WATER SUMMARY: SALINITIES DAILY SURFACE STATION: HUENEME, CALIFORNIA

	YEAR	JAN.	FEB.	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	OCT	NOV	DEC	MEAN	MAX	MIN.
1	1957	33.51	33.48	33.37	32.14	33.18	32.65	32.92	33.35	33.30	33.16	33.40	33.65			
2		33.60	32.88	23.17	30.77	33.21	31.87	32.82	33.35	33.24	33.15	33.49	33.55			
3		33.70	33.35	31.87	29.22	32.51	32.90	33.19	32.66	32.94	32.80	33.40	33.75			
4		33.54	33.52	32.86	32.29	33.21	33.21	33.21	32.44	33.31	33.16	33.83	33.73			
5		31.35	33.33	32.12	32.94	33.07	33.26	33.10	32.97	33.21	33.12	33.68	32.95			
6		33.01	33.24	32.32	32.01	33.00	33.21	33.04	33.40	33.35	33.18	33.48	32.55			
7		33.34	33.27	33.05	30.30	32.94	32.07	32.01	33.37	33.16	32.86	33.54	33.24			
8		33.60	33.02	33.41	32.31	33.04	32.66	31.89	33.57	33.22	33.00	33.49	33.15			
9		33.53	33.85	33.35	33.03	33.33	33.25	33.12	31.60	32.96	33.10	33.55	33.61			
10		33.66	33.16	33.30	32.99	32.66	32.75	32.46	32.99	33.26	33.10	33.47	33.71			
11		33.37	33.12	33.30	32.82	32.47	29.72	30.79	32.80		32.85	33.53	33.58			
12		32.32	33.30	33.31	31.58	32.53	32.69	30.21	32.94	33.17	32.66	33.58	33.58			
13			33.33	33.42	32.50	32.11	26.02	29.32	32.92	32.95	32.88	33.32	33.47			
14		32.72	33.32	33.27	33.17	32.11	30.11	31.51	32.74	32.78	32.97	33.49	33.46			
15		33.10	33.19	33.71	31.80	33.04	32.25	33.26	32.94	32.94	32.86	33.42	33.49			
16		33.40	33.24	33.34	31.60	32.83	32.72	33.28	33.32	32.95	32.92	33.61	30.75			
17		33.49	33.17	33.57	31.97	32.68	33.33	33.35	33.17	33.03	33.07	33.40	25.83			
18		33.46	33.10	34.12	32.12	32.66	33.51	33.38	33.17	33.08	33.02	33.58	31.37			
19		33.68	33.13	33.57	31.64	31.12	33.24	33.40	32.94	32.18	33.28	33.49	33.48			
20		32.71	33.30	30.44	33.35	32.65	32.67	33.31	32.92	32.79	33.47	33.53	32.24			
21		32.29	33.49	33.43	33.08	32.70	32.54	32.94	32.43	33.14	33.37	33.43	33.42			
22		33.39	33.46	33.61	33.03	33.12	31.99	33.33	31.60	33.22	33.42	33.65	25.82			
23		33.08	32.39	32.46	32.85	32.64	31.59	33.30	32.00	33.27	33.59	33.70	33.49			
24		33.50	31.85	31.02	32.66	33.22	31.58	33.26	34.35	32.79	33.44	33.49	33.53			
25		32.84	32.79	32.78	32.99	33.20	32.12	33.24	33.03	33.15	33.37	33.27	33.49			
26		32.75	33.17	33.30	32.96	31.70	33.12	33.30	32.90	33.24	33.23	33.53	33.48			
27		33.14	33.27	33.28	32.84	33.11	33.36	33.12	32.87	33.25	33.51	33.50	33.45			
28		33.49	33.34	33.25	32.66	32.01	33.58	32.88	32.92	33.24	33.55	33.35	33.50			
29		33.35		33.33	33.24	29.52	31.58	32.36	32.92	33.36	33.31	33.44	31.60			
30		33.55		33.24	33.14	31.20	32.25	32.24	33.17	33.37	33.31	33.50	32.42			
31		33.39		33.23		30.52		32.64	32.70		33.39		33.43			
MEAN		33.20	33.18	33.02	32.34	32.49	32.26	32.65	32.88	33.04	33.16	33.50	32.69	32.87		
MAX.		33.70	33.85	34.12	33.35	33.33	33.58	33.40	34.35	33.37	33.59	33.83	33.80		34.35	
MIN.		31.35	31.85	30.44	29.22	29.52	26.02	29.22	31.60	32.18	32.66	33.27	25.82			25.82
RANGE		2.35	2.00	3.68	4.13	3.81	7.56	4.18	2.75	1.19	.93	.56	7.98			
STD.DEV.		.51	.44	.86	.97	.88	1.55	1.00	.62	.31	.23	.13	2.15			

SEA WATER SUMMARY: TEMPERATURES — STATION: PORT HUENEME, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	16.2	15.2	13.2	15.0	16.2	13.8	13.4	16.9	18.5	18.1	19.0	16.4			
2		15.9	15.4	14.5	14.5	16.0	14.1	14.3	13.8	18.4	18.9	18.9	16.0			
3		16.0	14.7	14.1	15.4	15.9	14.6	14.8	16.2	18.4	18.3	19.0	15.6			
4		15.8	15.4	14.6	13.9	15.9	14.8	14.8	15.5	18.2	18.2	18.7	17.0			
5		15.7	15.4	14.4	13.6	15.8	14.9	15.1	16.2	18.6	17.9	18.6	17.5			
6		15.5	15.6	14.6	14.6	15.4	15.8	15.2	16.0	17.7	18.1	18.4	16.6			
7		15.4	16.5	13.7	13.0	15.6	15.6	15.2	16.5	16.3	18.3	18.6	16.5			
8		15.6	15.6	13.1	12.8	15.2	15.1	14.9	16.3	18.4	18.1	18.0	16.0			
9		15.7	15.8	13.1	13.9	14.7	14.6	14.5	18.3	18.4	18.2	18.9	16.2			
10		15.8	16.4	13.3	14.5	15.0	14.8	13.4	16.5	18.6	18.4	18.5	16.2			
11		16.2	15.8	13.5	14.8	16.3	14.4	13.8	17.4	17.9	18.5	18.0	16.0			
12		15.9	16.2	13.8	14.7	16.6	14.3	14.3	17.0	18.0	18.7	19.0	16.5			
13		15.2	15.6	13.3	15.8	15.4	14.2	14.5	18.0	18.7	18.5	19.5	16.0			
14		15.4	15.8	13.4	14.5	15.4	14.7	15.0	18.8	19.0	18.0	18.5	15.8			
15		15.4	15.5	13.7	14.7	15.9	15.3	15.2	18.9	19.2	18.3	18.4	15.4			
16		15.4	16.2	14.7	14.7	15.7	15.7	15.6	17.8	19.4	18.0	19.8	15.5			
17		15.3	16.4	15.0	15.9	15.8	14.2	15.8	18.2	19.5	18.5	19.5	15.8			
18		15.4	15.7	14.4	16.7	15.6	13.8	16.1	18.4	19.0	18.6	18.5	16.0			
19		15.5	15.2	14.5	16.7	15.2	13.4	14.3	18.2	19.2	18.7	16.5	15.8			
20		15.8	15.1	14.8	16.8	14.5	14.0	14.7	17.9	18.9	18.6	16.5	15.7			
21		15.6	15.7	15.1	16.3	14.7	14.2		18.3	19.0	18.8	16.4	15.6			
22		14.8	15.8	14.8	16.4	15.2	14.4	14.4	18.2	19.2	18.5	16.5	15.4			
23		15.5	16.0	14.6	15.5	14.5	14.7	14.7	18.4	19.2	18.6	15.3	15.0			
24		15.3	15.8	14.9	14.6	15.0	13.7	14.7	18.6	19.1	18.8	15.6	15.4			
25		15.2	15.6	14.6	15.6	15.3	13.4	15.8	18.5	18.9	18.9	15.7	15.5			
26		14.9	14.9	14.7	15.8	14.6	15.2	16.4	18.7	18.2	19.0	16.5	15.5			
27		15.8	14.4	15.1	15.5	13.8	16.1	16.2	18.9	18.8	19.0	15.5	15.7			
28		15.8	13.3	14.9	16.8	13.4	15.5	16.8	18.0	18.9	18.9	15.4	15.0			
29		15.8		15.3	16.0	13.6	15.2	17.4	18.4	19.1	18.5	15.3	15.2			
30		15.7		14.5	15.8	14.2	14.1	18.4	18.6	18.9	18.0	16.5	15.1			
31		15.9		15.0		13.6		16.6	18.9		18.1		15.0			
1-10 MEAN		15.76	15.60	13.86	14.08	15.57	14.81	14.56	16.22	18.23	18.26	18.66	16.40			
11-20 MEAN		15.55	15.75	14.11	15.53	15.64	14.40	14.93	18.06	18.88	18.44	18.02	15.85			
21-31 MEAN		15.48	15.19	14.86	15.83	14.35	14.65	16.14	18.50	18.93	18.64	15.77	15.31			
MON. MEAN		15.59	15.54	14.30	15.15	15.16	14.62	15.21	17.62	18.68	18.45	17.48	15.84	16.14		
MAX.		16.20	16.50	15.30	16.8	16.6	16.1	18.4	18.9	19.5	19.0	19.5	17.5		19.5	
MIN.		14.80	13.30	13.10	12.8	13.4	13.4	13.4	13.8	17.7	17.8	15.3	15.0			12.8
RANGE		1.40	3.20	2.20	4.0	3.2	2.7	5.0	5.1	1.8	1.2	4.2	2.5			
STD. DEV.		.36	.72	.57	1.06	.80	.69	1.23	1.15	.45	.31	1.08	.61			

SEA WATER SUMMARY: SALINITIES STATION: PORT HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.46	33.51	33.25	28.80	32.78	33.57	33.99	33.12	33.19	33.14	33.57	33.37			
2		33.51	33.52	33.77	31.33	30.38	33.03	33.41	33.12	33.19	33.14	33.58	33.35			
3			31.08	33.42	30.48	31.64	33.10	33.21	33.09		33.17	33.64	33.66			
4		33.63	32.05	32.31	30.52	32.14	33.30	32.94	33.51		33.14	33.50	33.57			
5		33.70	31.91	31.68	32.02	31.60	33.55	33.48		33.96	33.20	33.46	33.66			
6		33.74	33.52	32.76	18.86	32.37	32.94	33.19	33.44	33.95	33.13	33.42	33.57			
7		33.53	33.54	33.44	18.85	32.34	33.40	33.24	33.24	33.93	33.17	33.40	33.51			
8		33.58	33.20	31.82	18.71	32.79	33.32	33.49			33.19	33.38	33.60			
9		33.58	33.29	31.15	19.47	32.75	33.40	33.51	33.40		33.17	33.48	33.70			
10		33.44	33.26		28.95	33.09	33.30	33.24	33.24		33.42	33.46	33.77			
11		33.52	33.51		31.14	33.39	33.30	32.95	33.22		33.40	33.42	33.53			
12		33.00	33.47	33.37	32.90	32.68	32.87	33.08	33.52		33.37	33.60	33.58			
13		33.46	33.29	32.95	32.61	32.74	32.51	33.41	33.39	33.43	33.40	33.61	33.71			
14		33.53	33.37	30.60	27.79	33.11	32.83	33.28	33.10	33.48	33.37	33.55	33.68			
15		33.69	33.49	28.40	31.26	33.31	33.60	33.22	33.21	33.55	33.35	33.55	33.71			
16		33.65	33.40	23.70	28.31	32.67	32.16	33.55	33.58	33.56	33.33	33.57	33.65			
17		33.64	33.47	31.36	24.76	32.86	32.05	33.51	33.57		33.33	33.57	33.64			
18		33.58	33.48	32.99	32.02	33.43	29.72	32.72	33.60		33.37	33.58	33.53			
19		33.68	22.66	32.38	28.91	31.42	32.23	33.19	33.57		33.59		33.56			
20		33.62	29.61	32.62	31.45	32.59	33.38	33.12	33.53		33.54		33.60			
21		33.68	31.68	32.62	28.78	33.40	32.47		33.57		33.54	33.56	33.58			
22		33.64	31.67	26.08	27.23	33.52	32.95	33.57	33.58	33.53	33.54	33.18	33.53			
23		33.64	32.26	31.58	29.50	32.91	33.21	33.45	33.04	33.55	33.57	33.15	33.55			
24		33.55	32.39	30.21	28.19	33.54	33.37	33.41	33.12	33.53	33.54	33.46	33.54			
25		33.66	23.04	32.38	29.11	33.30	33.31	33.67	33.03	33.69	33.54	33.43	33.55			
26		33.68	29.61	32.53	31.20	33.42	32.85	34.12	33.39	33.58	33.58	33.49	33.57			
27		31.76	32.84	30.55	27.50	33.46	32.77	32.56	33.11	33.51	33.57	33.58	33.57			
28		33.37	32.93	31.79	30.84	32.83	30.98	32.53	32.97	33.51	33.53	33.60	33.57			
29		33.38		32.97	32.79	32.52	33.02	32.54	32.97	33.57	33.43	33.48	33.69			
30		33.44		32.81	32.66	32.50	33.03	33.40	33.01	33.50	33.71	33.58	33.54			
31		33.30		32.18		32.41		33.46	33.63		33.38		33.68			
1-10 MEAN		33.57	32.89	32.63	25.80	32.19	33.29	33.31	33.27	33.64	33.19	33.49	33.58			
11-20 MEAN		33.53	31.98	30.93	30.12	32.79	32.46	33.20	33.43	33.50	33.40	33.56	33.62			
21-31 MEAN		33.37	30.80	31.43	29.83	33.07	32.80	33.27	33.16	33.55	33.54	33.45	33.58			
MON. MEAN		33.49	31.97	31.65	28.58	32.70	32.85	33.26	33.28	33.57	33.38	33.49	33.59	32.65		
MAX.		33.74	33.57	33.77	32.90	33.54	33.60	34.12	33.60	33.96	33.71	33.64	33.77		34.12	
MIN.		31.76	22.66	23.70	18.71	30.38	29.72	32.53	32.97	33.19	33.13	33.15	33.35			18.71
RANGE		1.98	10.91	10.07	14.19	3.16	3.88	1.59	.63	.77	.58	.49	.42			
STD. DEV.		.37	2.98	2.40	3.84	.71	.88	.37	.17	.24	.14	.13	.11			

SALINITIES QUESTIONABLE

SEA WATER SUMMARY: TEMPERATURES STATION: PORT HUENEME, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	14.8	14.6	14.4	15.5	16.4	16.0	18.4	17.5	18.2	17.3	16.5	15.6			
2		15.1	14.6	14.5	15.0	16.0	15.7	19.0	20.2	20.1	17.1	16.9	14.9			
3		15.1	14.7	15.0	15.0	14.0	16.0	18.9	21.1	19.1	16.9	16.5	16.2			
4		15.2	14.5	15.0	14.9	13.6	14.9	18.9	19.8	17.5	16.8	16.1	16.2			
5		15.1	14.3	15.0	14.7	13.4	15.9	18.4	19.4	17.7	16.6	15.8	16.1			
6		15.0	14.2	15.0	14.6	13.2	16.2	16.8	18.6	17.8	17.0	15.2	16.2			
7		14.8	14.0	15.1	14.8	14.0	16.3	18.8	19.3	17.6	17.1	14.8	16.3			
8		14.6	14.2	15.5	14.8	14.0	16.6	18.0	18.8	19.2	17.2	15.6	16.4			
9		15.5	14.1	16.0	14.9	14.2	16.8	17.8	18.2	20.3	18.2	16.4	16.5			
10		15.7	14.2	15.8	15.0	14.4	16.8	19.4	17.2	18.8	18.4	16.6	16.5			
11		15.6	14.5	15.9	14.5	15.4	16.9	19.5	16.5	18.5	18.5	16.0	16.2			
12		15.5	14.4	15.2	14.4	15.4	17.7	20.0	17.4	18.7	18.7	16.2	16.6			
13		15.4	14.5	15.1	14.0	15.0	17.7	20.1	17.6	18.9	18.6	16.4	14.5			
14		15.3	14.4	15.3	14.1	15.5	17.4	19.8	17.8	18.3	18.9	16.3	14.7			
15		15.9	14.3	15.5	14.0	15.2	17.6	20.0	16.3	17.6	18.8	16.4	14.6			
16		16.3	14.8	15.1	14.1	15.1	16.6	17.8	18.0	16.9	18.9	16.3	14.5			
17		16.0	14.4	15.2	14.1	15.8	16.4	17.6	17.4	17.6	19.1	16.2	15.0			
18		15.5	14.0	15.1	14.3	16.3	17.9	17.9	17.5	18.0	18.6	16.8	15.4			
19		15.0	14.2	15.3	13.9	16.0	17.8	17.8	18.5	18.6	18.0	15.2	15.3			
20		15.1	14.2	15.0	14.3	16.1	17.6	18.6	18.2	18.9	17.3	15.8	15.4			
21		15.6	14.1	15.1	14.2	15.9	18.0	19.0	18.3	18.9	18.0	15.7	15.4			
22		15.4	13.6	15.2	14.3	16.0	18.0	17.8	18.0	18.7	18.3	15.9	15.3			
23		15.0	14.1	15.3	14.7	16.2	18.4	18.1	18.5	18.8	18.3	15.8	14.4			
24		14.2	14.0	15.0	14.6	16.6	18.5	18.2	16.6	18.2	18.5	15.9	14.0			
25		14.5	14.3	14.5	14.5	16.0	18.6	18.0	17.9	18.3	18.4	16.1	13.4			
26		14.2	15.6	14.0	14.0	15.9	18.4	19.0	18.3	18.2	18.8	15.9	13.5			
27		14.4	15.4	14.5	14.7	15.5	18.5	19.2	18.7	18.7	18.4	16.0	13.6			
28		14.5	14.5	14.4	15.0	15.5	17.9	18.2	17.4	18.8	17.4	16.4	13.7			
29		14.7		14.5	16.4	16.2	18.3	17.5	17.3	19.1	16.0	16.6	13.6			
30		14.0		14.6	16.5	16.2	18.5	17.3	17.4	18.8	15.8	16.0	14.2			
31		14.5		14.6		16.2		17.0	17.8		15.6		13.9			
1-10 MEAN		15.09	14.34	15.13	14.92	14.32	16.12	18.64	19.01	18.63	17.26	16.04	15.89			
11-20 MEAN		15.56	14.37	15.27	14.17	15.58	17.36	18.91	17.52	18.20	18.54	16.16	15.22			
21-31 MEAN		14.64	14.45	14.70	14.89	16.02	18.31	18.12	18.02	18.62	17.59	16.05	14.09			
MON. MEAN		15.08	14.38	15.02	14.66	15.33	17.26	18.54	18.18	18.48	17.79	16.08	15.03	16.32		
MAX.		16.3	15.6	16.0	16.5	16.6	18.6	20.1	21.1	20.3	19.1	16.9	16.6		21.1	
MIN.		14.0	13.6	14.0	13.9	13.2	14.9	17.0	16.3	16.9	15.6	14.8	13.4			13.2
RANGE		2.3	2.0	2.0	2.6	3.4	3.7	3.1	4.8	3.4	3.5	2.1	3.2			
STD. DEV.		.56	.47	.47	.68	.89	.82	.79	1.15	.82	.89	.52	.84			

SEA WATER SUMMARY: SALINITIES DAILY SURFACE STATION: PORT HUENEME, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	33.69	33.55	33.51	33.66	33.60	33.67	33.68	33.62	33.78	33.80	33.77	33.89			
2		33.73	33.58	33.48	33.62	33.58	33.75	33.68	33.84	33.86	33.78	33.76	33.89			
3		33.62	33.59	33.49	33.58	33.68	33.64	33.68	33.81	33.82	33.61	33.64	33.76			
4		33.64	32.88	33.52	33.58	33.68	33.68	33.96	33.80	33.66	33.71	33.69	33.75			
5		30.68	32.99	33.53	33.72	33.79	33.72	33.78	33.70	33.82	33.78	33.78	33.75			
6		30.68	33.53	33.51	33.69	33.86	33.64	33.66	33.65	33.74	33.68	33.77	33.77			
7		32.95	33.50	33.53	33.62	33.69	33.63	33.73	33.71	33.65	33.66	33.85	33.92			
8		32.99	33.39	33.54	33.62	33.68	33.68	33.68	33.69	33.68	33.71	33.77	33.89			
9		33.30		33.53	33.61	33.64	33.70	33.68	33.66	33.78	33.78	33.66	33.80			
10		33.29	32.97	33.53	33.61	33.62	33.73	33.72	33.73	33.63	33.72	33.68	33.91			
11		32.20	33.45	33.54	33.71	33.66	33.69	33.68	33.60	33.66	33.74	33.67	33.86			
12		32.18	33.66	33.66		33.71	33.68	33.65	33.58	33.57	33.72	33.66	33.77			
13		33.42	33.68	33.15	33.57	33.59	33.64	33.68	33.58	33.55	33.73	33.68	33.99			
14		33.40	33.69	33.15	33.54	33.58	33.75	33.64	33.59	33.62	33.73	33.72	34.00			
15		33.51	33.67	33.14	33.71	33.60	33.71	33.63	33.66	33.62	33.75	33.64	33.75			
16		33.62	33.42	33.52	33.72	33.60	33.73	33.62	33.64	33.66	33.69	33.63	33.76			
17		33.55	32.99	33.51	33.75	33.69	33.64	33.60	33.58	33.61	33.69	33.69	33.77			
18		33.55	33.42	33.64	33.73	33.72	33.68	33.62	33.59	33.62	33.68	33.68	33.75			
19		33.56	33.77	33.62	33.67	33.59	33.66	33.60	33.77	33.76	33.70	33.75	33.73			
20		33.60	33.37	33.55	33.68	33.58	33.59	33.68	33.60	33.75	33.69	33.73	33.71			
21			33.40	33.54		33.67	33.71	33.62	33.61	33.70	33.73	33.61	33.68			
22		33.54	33.03	33.57		33.60	33.73	33.69	33.64	33.68	33.69	33.65	33.67			
23		33.71	33.26	33.55	33.86	33.68	33.75	33.73	33.60	33.66	33.66	33.65	33.68			
24		33.71	33.46	33.95	33.78	33.69	33.68	33.64	33.57	33.62	33.82	33.74	33.66			
25		33.64	33.43	33.65	33.42	33.64	33.66	33.64	33.64	33.62	33.82	33.77	33.60			
26		33.64	33.48	33.75	33.40	33.60	33.73	33.68	33.66	33.65	33.82	33.82	33.64			
27		33.55		33.75	33.48	33.60	33.67	33.69	33.65	33.69	33.81	33.75	33.68			
28		33.49	33.46	33.73	33.51	33.67	33.69	33.75	33.59	33.69	33.69	33.79	33.71			
29		33.58		33.75	33.82	33.68	33.75	33.70	33.60	33.66	33.63	33.75	33.64			
30		33.57		33.70	33.73	33.64	33.66	33.59	33.55	33.64	33.67	33.75	33.68			
31		33.56		33.71		33.64		33.52	33.80		33.64		33.71			
1-10 MEAN		32.86	33.33	33.52	33.63	33.68	33.68	33.72	33.72	33.74	33.72	33.74	33.83			
11-20 MEAN		33.26	33.47	33.45	33.68	33.63	33.68	33.64	33.62	33.64	33.71	33.68	33.81			
21-31 MEAN		33.60	33.36	33.70	33.62	33.64	33.70	33.66	33.63	33.66	33.72	33.73	33.67			
MON. MEAN		33.24	33.39	33.56	33.64	33.65	33.69	33.67	33.65	33.68	33.72	33.72	33.77	33.62		
MAX.		33.73	33.77	33.95	33.86	33.86	33.75	33.96	33.84	33.86	33.82	33.85	34.00		34.00	
MIN.		30.68	32.88	33.14	33.40	33.57	33.59	33.52	33.55	33.55	33.61	33.61	33.60			30.68
RANGE		3.05	.89	.81	.46	.29	.16	.44	.29	.31	.21	.24	.40			
STD. DEV.		.83	.23	.19	.12	.07	.04	.09	.07	.08	.05	.05	.10			

SEA WATER SUMMARY: SURFACE TEMPERATURES

STATION: SANTA MONICA PIER
SANTA MONICA, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	12.60	12.40	12.40	14.20	15.50	16.00	18.90	16.80	18.50	19.10	13.30	15.10			
2		12.50	12.10	13.00	12.90	14.10	15.80	19.20	20.10	19.00	19.02	13.10	15.10			
3		12.50	12.30	13.20	12.80	14.40	15.80	19.50	19.80	18.80	18.07	13.20	15.10			
4		12.30	12.40	13.00	13.60	14.60	15.40	19.50	18.40	18.50	19.20	13.40	14.90			
5		12.30	12.60	12.50	13.90	15.40	16.80	18.10	19.80	18.10	18.90	13.70	15.20			
6		12.50	12.50	12.30	14.20	14.40	17.60	17.90	19.90	18.20	18.50	13.60	15.20			
7		12.60	12.50	10.00	14.00	14.30	16.50	18.20	20.70	18.00	18.00	13.60	14.50			
8		12.50	12.70	11.20	13.80	15.50	17.90	19.10	20.10	18.20	18.00	13.70	13.60			
9		12.30	12.60	11.50	14.20	15.20	17.50	19.70	19.20	18.50	17.70	13.90	13.50			
10		12.40	12.90	13.00	13.80	15.30	17.90	19.40	19.20	18.00	17.30	14.20	13.20			
11		12.40	13.00	12.70	13.30	13.70	17.80	19.10	18.80	18.00	18.70	14.80	13.90			
12		12.50	12.80	11.70	14.10	13.30	17.50	19.10	19.00	16.60	18.30	15.00	13.90			
13		12.60	12.70	12.60	13.40	13.50	18.00	18.30	16.20	16.20	17.90	14.50	14.30			
14		12.50	12.70	13.00	13.40	14.70	17.90	18.10	18.90	18.80	18.10	14.50	14.30			
15		12.60	12.70	13.00	13.40	14.70	15.60	18.80	19.20	16.10	18.40	14.50	14.50			
16		12.50	—	12.70	14.00	14.20	16.30	18.40	19.60	17.10	18.40	14.80	14.30			
17		12.20	10.10	13.00	14.20	16.30	17.20	18.50	19.80	17.70	17.40	15.00	14.60			
18		11.90	11.40	13.00	14.10	14.00	17.70	17.50	20.30	18.20	17.20	15.00	14.30			
19		11.90	11.80	13.60	14.00	14.80	17.60	18.50	19.80	17.30	17.10	15.30	14.30			
20		12.40	12.00	14.10	15.20	15.10	17.10	17.70	18.70	17.20	17.10	14.80	14.50			
21		12.20	—	14.00	15.50	15.20	16.50	17.80	19.00	17.80	17.00	15.15	14.40			
22		12.20	12.30	13.80	15.20	16.40	16.60	18.00	20.20	18.10	17.00	14.40	14.50			
23		12.40	12.50	14.00	15.10	16.10	17.70	18.90	20.40	18.60	17.30	14.10	13.80			
24		12.50	12.20	14.30	15.40	15.80	17.60	18.70	19.60	18.60	15.10	14.80	13.90			
25		12.50	12.20	14.50	15.30	15.80	17.50	18.60	20.30	18.80	14.10	15.10	13.90			
26		12.80	12.10	14.50	15.40	15.80	17.80	18.80	20.20	18.20	15.50	14.70	14.30			
27		12.60	12.00	14.70	15.30	15.50	18.00	18.60	19.80	18.40	15.60	15.00	14.40			
28		12.70	12.20	14.50	14.40	14.60	18.30	18.40	19.80	18.40	15.70	14.90	14.20			
29		12.70	12.50	14.50	15.70	15.60	18.20	19.10	19.10	18.50	15.60	14.80	14.20			
30		12.50	.	14.60	15.90	15.50	19.10	18.70	19.40	19.20	15.70	14.90	14.30			
31		12.40		14.50		14.40		18.90	19.00		15.60		14.40			
1-10 MEAN																
11-20 MEAN																
21-31 MEAN																
MON. MEAN		12.43	12.30	13.20	14.32	14.95	17.24	18.64	19.45	18.05	17.30	14.39	14.34	15.55		
MAX.		12.80	13.00	14.70	15.90	16.40	19.10	19.70	20.70	19.20	19.20	15.30	15.20		20.70	
MIN.		11.90	10.10	10.00	12.80	13.30	15.40	17.50	16.20	16.10	14.10	13.10	13.20			10.00
RANGE		.90	2.90	4.70	3.10	3.10	3.70	2.20	4.50	3.10	5.10	2.20	2.00			
STD. DEV.		.23	.62	1.10	.81	.80	.87	.54	.88	.81	1.23	.57	.50			

SEA WATER SUMMARY: SALINITIES — STATION: SANTA MONICA PIER, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	33.4	33.3	33.7	33.4	33.8	33.8	33.7	32.8	33.7	33.4	33.8	34.0			
2		33.6	33.8	33.4	33.6	34.2	33.8	33.8	33.3	33.8	33.7	34.4	34.0			
3		33.6	33.6	32.8	33.7	34.2	33.8	33.8	33.3	33.7	33.8	34.2	34.1			
4		33.6	31.8	33.6	34.0	34.1	33.6	33.8	33.8	34.0	33.8	35.6	33.8			
5		33.3	33.8	33.4	33.7	33.7	33.3	33.8	33.6	34.1	33.7	34.0	33.8			
6		33.8	33.6	33.4	33.6	34.1	33.3	33.7	33.6	33.8	33.8	33.6	34.0			
7		33.8	33.7	34.5	33.7	33.6	33.7	33.7	34.0	33.8	33.7	34.1	33.8			
8		33.7	33.7	34.2	33.8	33.7	33.2	33.7	33.8	33.7	33.4	33.7	34.0			
9		33.6	33.8	33.8	33.8	33.6	33.6	33.7	33.7	34.0	33.6	33.8	34.0			
10		33.8	33.7	33.2	33.7	33.7	33.4	33.7	33.7	33.8	34.0	34.2	33.8			
11		33.7	33.4	33.6	34.1	34.0	33.3	33.6	33.8	33.4	33.3	34.7	34.4			
12		33.4	33.4	32.9	33.0	33.7	33.6	33.6	33.7	33.6	33.6	34.4	34.7			
13		33.6	33.7	33.7	32.9	33.8	33.2	33.8	33.7	33.7	33.7	34.4	34.0			
14		33.6	33.7	33.6	33.2	33.4	34.0	33.8	33.7	33.3	33.4	34.1	33.3			
15		33.6	33.7	33.6	33.3	33.6	34.0	33.8	33.7	33.4	33.6	33.8	33.7			
16		33.3		34.0	33.0	33.6	34.5	33.6	33.6	32.9	33.4	33.7	34.2			
17		33.3	33.4	33.7	33.6	33.4	34.4	33.6	33.8	33.6	34.1	34.0	33.8			
18		33.6	33.7	33.7	33.4	33.7	33.4	33.6	33.7	33.6	33.6	34.7	34.2			
19		33.6	33.7	33.8	33.8	33.3	33.4	34.0	33.7	34.0	33.7	33.4	34.2			
20		33.6	33.6	34.0	33.0	33.6	34.1	34.0	33.7	34.0	33.6	32.5	33.8			
21		33.7	33.4	33.7	32.8	33.8	33.4	33.7	33.8	33.4	33.6	32.8	33.8			
22		32.9	33.6	33.7	32.9	33.4	33.4	33.8	34.1	33.7	33.6	33.8	34.2			
23		33.6	33.4	33.8	33.3	33.2	33.7	33.7	33.4	32.7	33.4	33.0	34.6			
24		33.4	33.6	33.8	33.4	33.6	33.8	34.1	33.6	33.7	34.4	34.0	34.1			
25		33.2	33.6	33.8	33.0	33.8	33.7	34.0	33.6	33.6	33.8	34.4	34.2			
26		33.0	34.1	33.8	33.4	33.6	33.8	34.1	34.4	33.4	33.8	34.1	34.4			
27		32.7	33.3	34.0	33.0	33.8	33.7	34.0	33.3	33.3	33.8	33.8	34.0			
28		33.3	33.6	33.8	33.6	33.7	33.7	34.0	34.0	33.3	33.6	34.2	34.0			
29		33.0	33.6	34.0	33.4	33.8	33.6	33.8	33.6	32.5	33.8	34.0	34.5			
30		33.3		34.0	33.3	33.8	34.1	33.8	33.3	33.6	34.0	34.1	33.8			
31		33.6		33.3		33.8		33.8	33.8		34.2		33.8			
MEAN		33.46	33.55	33.69	33.41	33.71	33.68	33.79	33.66	33.57	33.71	33.98	34.03	33.69		
MAX.		33.8	34.1	34.5	34.1	34.2	34.5	34.1	34.4	34.1	34.4	35.6	34.7		35.6	
MIN.		32.7	31.8	32.8	32.8	33.2	33.2	33.6	32.8	32.5	33.3	32.5	33.3			31.8
RANGE		1.1	2.3	1.7	1.3	1.0	1.3	.5	1.6	1.6	1.1	3.1	1.4			
STD.DEV.		.27	.39	.41	.33	.26	.34	.14	.32	.40	.26	.68	.31			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE

STATION: SANTA MONICA PIER SANTA MONICA, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	14.35	12.60	14.65	14.20	14.70	17.40	19.40	21.30	20.10	16.65	18.10	14.45			
2		14.50	12.65	14.45	12.35	14.65	17.80	19.35	20.85	19.45	17.15	17.95	15.50			
3		14.55	12.35	14.20	12.30	15.15	17.90	20.10	20.50	19.00	16.45	17.20	15.55			
4		14.40	13.00	14.30	13.30	16.95	18.30	19.65	19.95	19.95	16.15	17.55	15.50			
5		14.45	13.00	14.55	14.00	17.10	18.90	20.55	19.80	20.00	17.20	17.60	15.45			
6		14.15	13.15	14.60	13.60	16.65	18.35	20.55	21.20	18.80	17.10	17.45	15.45			
7		14.45	13.00	15.00	13.90	16.35	18.80	20.55	21.55	19.85	17.80	17.20	14.80			
8		14.00	13.30	14.95	13.85	15.90	18.05	20.10	20.95	21.10	17.85	16.90	15.50			
9		14.30	13.15	15.00	14.35	15.00	17.40	20.90	20.00	20.50	18.35	17.20	15.40			
10		14.65	13.50	14.95	14.55	15.20	18.80	21.20	21.30	19.55	18.30	17.30	15.70			
11		14.45	14.40	13.70	14.90	15.00	19.45	21.90	22.15	18.80	18.60	17.20	15.55			
12		14.80	14.20	14.55	14.65	15.80	19.00	20.65	20.10	19.05	16.50	17.10	15.90			
13		14.95	15.35	14.15	14.55	16.85	18.90	20.55	20.45	19.70	19.00	16.70	16.10			
14		14.95	15.20	13.05	14.90	15.80	19.00	20.45	19.80	19.10	18.30	16.65	16.00			
15		14.85	15.25	13.35	15.45	14.15	18.90	20.90	21.60	18.35	18.60	16.65	15.80			
16		14.65	14.90	13.50	15.00	14.50	19.35	20.80	21.40	18.35	18.85	16.00	16.50			
17		14.65	14.45	12.90	14.35	15.15	18.20	20.80	20.85	18.90	18.70	16.10	16.30			
18		14.45	14.35	13.00	14.65	17.10	19.90	21.45	22.05	18.65	19.05	15.55	16.10			
19		14.35	14.05	13.20	13.50	17.30	21.65	21.65	22.15	19.00	19.15	16.00	16.10			
20		14.45	13.95	13.20	12.70	14.45	21.10	20.85	22.45	17.90	18.85	16.15	16.10			
21		14.15	14.00	14.00	12.95	14.90	21.55	20.90	23.45	18.20	18.00	16.00	15.95			
22		14.20	14.10	12.20	12.90	14.65	21.35	21.20	22.45	18.35	18.35	15.80	15.55			
23		13.95	14.40	11.65	13.15	15.00	21.40	21.30	22.90	18.35	18.35	15.65	15.65			
24		13.90	14.65	12.10	13.50	14.30	21.00	21.70	23.60	18.45	18.20	15.70	15.60			
25		14.00	13.90	11.90	13.60	15.55	20.60	21.65	22.60	18.50	18.05	15.95	15.55			
26		13.70	14.45	13.90	14.10	16.50	20.80	22.15	21.65	18.35	17.80	16.00	15.55			
27		13.60	14.65	14.15	14.55	17.60	20.00	22.15	21.65	17.35	16.80	15.85	15.60			
28		13.05	14.85	14.45	15.15	18.05	21.10	21.40	21.45	17.30	17.55	15.70	15.80			
29		12.50		14.90	15.20	17.50	20.45	21.20	21.80	16.65	18.00	15.90	16.00			
30		12.55		13.35	15.90	15.85	20.65	21.00	19.00	17.20	17.50	15.20	16.10			
31		12.45		13.90		16.30		20.55	18.55		18.45		16.10			
MEAN		14.10	13.90	13.80	14.10	15.85	19.54	20.88	21.27	18.83	17.99	16.54	15.72	16.88		
MAX.		14.95	15.35	15.00	15.90	18.05	21.65	22.15	23.60	21.10	19.15	18.10	16.50		23.60	
MIN.		12.45	12.35	11.65	12.30	14.15	17.40	19.35	18.55	16.65	16.15	15.20	14.45			11.65
RANGE		2.50	3.00	3.35	3.60	3.90	4.25	2.80	5.05	4.45	3.00	2.90	2.05			
STD.DEV.		.67	.79	.91	.91	.98	1.15	.75	1.29	1.06	.76	.72	.48			

SEA WATER SUMMARY: Salinities — Daily Surface STATION: Santa Monica, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1967	34.4	34.4	33.2	33.8	33.4	33.8	33.7	33.8	33.8	33.5	33.4	34.2			
2		34.4	34.1	33.3	33.8	33.4	33.6	34.0	33.6	33.7	33.2	33.7	33.2			
3		34.0	34.1	33.6	33.7	33.3	33.8	34.4	33.4	34.0	32.9	33.8	34.0			
4		33.8	33.7	33.6	34.0	33.4	33.8	33.6	33.8	34.0	33.3	33.7	33.3			
5		33.4	34.4	33.4	34.0	33.6	33.7	34.0	33.7	33.6	33.4	33.3	33.2			
6		33.8	34.2	33.7	33.7	33.4	33.6	33.7	33.8	33.7	33.6	32.9	33.6			
7		33.6	33.4	33.4	33.7	33.4	33.7	33.7	33.8	33.8	33.8	33.0	33.6			
8		33.6	33.7	33.4	33.7	33.8	33.4	34.0	33.6	33.3	33.4	33.4	33.8			
9		34.5	33.6	33.4	33.8	33.2	34.2	34.1	34.0	33.4	33.6	33.6	33.8			
10		33.8	33.7	33.3	33.8	34.1	33.7	34.0	33.7	33.7	33.7	33.4	33.8			
11		33.8	33.6	33.7	33.6	33.8	33.8	33.7	33.8	33.4	33.3	34.4	33.8			
12		34.0	33.7	33.4	33.7	34.0	34.0	33.8	33.8	33.4	33.4	33.4	33.4			
13			33.0	33.2	34.0	33.6	33.4	34.2	34.1	33.4	33.6	33.0	33.6			
14		34.0	33.2	33.8	33.7	34.0	33.7	34.0	34.0	33.3	33.3	33.2	33.6			
15		33.8	33.0	33.4	33.6	33.7	33.7	34.0	33.7	33.4	33.4	33.0	32.7			
16		34.5	33.8	33.7	33.8	34.0	33.7	34.1	33.4	33.6	33.3	34.4	33.6			
17		34.2	33.8	33.3	33.7	34.1	35.1	34.4	33.6	33.6	33.6	33.2	33.4			
18		33.8	33.6	33.8	32.4	33.8	34.1	33.2	33.7	33.7	33.6	33.8	33.7			
19		33.8	34.4	33.4	34.0	34.2	34.4	34.2	33.7	33.3	33.6	33.0	33.4			
20		34.2	34.2	33.6	34.1	33.8	33.7	33.4	33.8	33.3	33.3	33.8	33.6			
21		34.0	33.7	33.3	33.8	34.2	34.2	33.7	34.0	33.4	33.4	33.2	33.7			
22		34.5	33.8	33.7	33.8	34.5	33.3	34.0	33.6	33.6	33.8	33.2	33.6			
23		34.5	28.4	34.0	34.0	33.7	33.6	34.0	33.7	33.6	33.8	32.9	33.7			
24		33.4	33.4	34.0	33.8	34.5	33.8	34.1	33.8	33.7	33.7	34.2	33.7			
25		33.7	32.5	33.0	33.8	34.0	34.1	33.6	33.8	33.4	33.7	34.4	33.6			
26		34.1	33.4	33.7	34.0	33.7	34.5	33.4	32.4	33.2	33.6	33.7	33.7			
27		33.6	33.6	33.4	34.4	33.4	34.1	33.7	33.4	33.6	33.7	34.2	33.3			
28		33.2	33.4	33.4	33.7	33.7	33.7	33.7	33.6	33.2	33.8	33.6	33.3			
29		34.4		33.8	34.1	33.6	33.7	33.6	33.4	33.4	33.4	34.2	34.0			
30		34.5		33.8	33.3	34.0	33.8	34.0	33.7	33.3	33.4	34.2	34.0			
31		33.8		34.0		34.0		33.7	33.8		33.4		33.4			
MEAN		33.97	33.49	33.54	33.80	33.80	33.88	33.86	33.68	33.53	33.49	33.57	33.59	33.68		
MAX.		34.5	34.4	34.0	34.4	34.5	35.1	34.4	34.1	34.0	33.8	34.4	34.2		35.1	
MIN.		33.2	28.4	33.0	32.4	33.2	33.3	33.2	32.4	33.2	32.9	32.9	32.7			28.4
RANGE		1.3	6.0	1.0	2.0	1.3	1.8	1.2	1.7	.8	.9	1.5	1.5			
STD.DEV.		.33	1.10	.24	.38	.34	.42	.30	.31	.22	.20	.41	.31			

SEA WATER SUMMARY: TEMPERATURES STATION: SANTA MONICA PIER, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	15.85	15.30	14.15	16.65	17.35	18.20	17.45	19.35	21.20	21.30	18.50	15.90			
2		15.95	15.55	15.00	16.55	17.80	15.95	17.95	20.30	21.15	21.10	18.35	15.55			
3		15.55	15.85	14.90	15.85	17.20	15.65	17.00	20.50	21.10	20.50	18.85	16.05			
4		15.30	15.65	15.00	15.30	16.65	16.40	18.80	20.10	20.30	19.90	18.90	16.20			
5		15.55	15.95	15.00	15.00	18.00	16.65	18.45	19.80	20.85	20.65	18.90	16.20			
6		15.70	16.00	15.00	15.00	17.65	17.10	17.90	19.40	21.05	21.10	18.90	16.55			
7		15.60	16.10	14.60	15.00	17.80	15.55	19.50	20.35	21.65	20.85	19.20	16.65			
8		15.60	16.45	14.90	15.00	17.10	17.20	19.40	20.55	22.40	20.05	19.15	16.60			
9		15.65	16.00	14.05	15.15	16.55	16.55	17.60	20.00	22.10	20.65	19.15	16.60			
10		15.70	16.00	14.00	16.00	16.55	17.70	17.80	21.15	22.00	20.00	19.15	16.30			
11		15.55	16.15	14.60	15.80	16.60	17.20	18.05	21.05	21.20	19.85	18.60	16.40			
12		15.50	16.45	14.55	16.00	16.65	14.55	17.80	21.70	20.45	19.70	18.60	16.20			
13		15.80	16.00	14.45	15.85	16.30	15.65	17.40	20.90	19.70	19.70	18.35	16.20			
14		15.55	16.00	14.70	16.55	16.65	17.80	19.35	20.85	19.45	19.45	18.60	16.40			
15		15.55	16.40	14.70	16.55	17.40	18.80	19.45	21.40	20.35	19.95	18.20	16.10			
16		15.60	16.50	14.85	17.65	17.60	18.50	18.70	21.40	20.45	19.45	16.00	15.65			
17		15.65	16.35	15.15	17.65	17.65	18.30	18.90	21.45	20.95	19.45	13.90	15.65			
18		15.55	16.20	15.00	17.65	17.80	17.80	18.65	20.55	19.70	18.95	14.45	15.65			
19		15.55	16.05	15.10	17.20	18.20	18.60	19.45	21.05	19.45	18.15	14.45	15.85			
20		15.40	16.10	15.10	17.90	18.10	17.20	18.90	20.00	19.55	18.90	14.90	16.05			
21		15.65	16.10	15.30	18.00	17.50	15.85	17.90	20.00	19.65	18.35	15.10	15.55			
22		15.00	16.65	15.45	17.80	16.80	18.20	18.55	20.10	20.10	19.00	15.00	15.65			
23		15.30	16.65	15.55	16.80	16.90	18.35	17.80	20.00	19.95	19.45	15.00	16.00			
24		15.40	16.50	15.90	16.05	17.50	18.65	16.65	20.00	20.00	19.15	14.90	15.85			
25		15.45	16.30	15.55	16.55	16.00	17.90	16.55	20.90	19.55	18.90	15.55	15.65			
26		15.80	15.70	15.55	17.20	16.55	18.90	17.20	21.55	20.20	18.55	16.00	15.90			
27		15.80	15.00	14.55	17.20	16.10	19.35	18.55	20.65	20.65	18.70	15.90	15.70			
28		15.70	14.70	15.70	17.35	16.55	18.80	19.70	20.45	20.70	18.90	14.00	15.50			
29		16.05		15.70	17.20	17.50	17.90	19.15	21.40	20.85	18.90	16.10	15.30			
30		15.85		15.50	17.20	16.80	17.80	17.20	21.55	21.10	19.00	16.10	15.10			
31		15.80		16.00		17.60		19.15	21.10		18.80		15.50			
1-10 MEAN		15.64	15.89	14.66	15.55	17.26	16.70	18.38	20.15	21.38	20.61	18.90	16.26			
11-20 MEAN		15.57	16.19	14.82	16.88	17.30	17.44	18.66	21.04	20.12	19.36	16.60	16.02			
21-31 MEAN		15.62	15.95	15.52	17.14	16.89	18.17	18.04	20.70	20.28	18.88	15.36	15.61			
MON. MEAN		15.61	16.01	15.02	16.52	17.14	17.44	18.35	20.63	20.59	19.59	16.96	15.95	17.48		
MAX.		16.05	16.65	16.00	18.00	18.20	19.35	19.70	21.70	22.40	21.30	19.20	16.65		22.40	
MIN.		15.00	14.70	14.00	15.00	16.00	14.55	16.55	19.35	19.45	18.15	13.90	15.10			13.90
RANGE		1.05	1.95	2.00	3.00	2.20	4.80	3.15	2.35	2.95	3.15	5.30	1.55			
STD. DEV.		.23	.50	.52	.81	.57	1.11	.81	.61	.76	.80	1.43	.39			

SEA WATER SUMMARY: SALINITIES — STATION: SANTA MONICA PIER, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.4	34.2	34.0	32.0	33.8	33.6	33.8	33.6	33.8	34.1	33.8	33.8			
2		33.8	33.8	33.2	33.6	33.8	33.6	33.6	33.8	33.8	34.1	34.0	33.8			
3		33.6	34.1	34.0	33.3	33.8	33.6	33.4	33.0	33.7	34.2	34.5	33.7			
4		33.8	34.0	33.7	33.4	33.7	33.6	33.6	33.4	33.8	34.1	33.7	33.8			
5		33.8	34.2	33.6	34.0	33.7	33.8	33.7	33.8	34.1	34.4	34.0	34.4			
6		34.0	34.2	33.6	33.8	33.6	33.8	33.7	33.7	33.8	33.7	33.4	33.8			
7		34.0	34.1	34.4	34.1	33.7	34.0	33.6	34.0	33.8	33.6	33.6	34.4			
8		33.7	34.0	34.1	33.3	33.7	34.0	33.8	33.8	34.1	33.8	34.0	33.6			
9		33.6	33.4	34.2	33.3	33.4	34.0	33.8	33.7	34.0	33.4	33.2	34.1			
10		34.0	33.7	33.7	33.3	34.0	33.8	33.8	33.6	33.8	33.7	34.2	33.6			
11		34.4	34.1	33.6	33.4	33.4	33.7	33.7	33.6	34.1	34.2	33.6	33.6			
12		33.8	34.0	33.8	33.6	33.7	33.7	33.8	33.4	34.0	33.8	34.5	34.0			
13		34.1	33.6	33.6	33.3	33.8	34.0	33.7	33.6	33.8	34.1	33.6	33.8			
14		34.0	33.8	33.8	33.4	33.6	34.0	33.6	33.3	34.1	33.6	34.1	33.2			
15		33.8	33.7	32.9	33.6	33.3	33.4	33.7	33.8	34.1	33.3	34.2	33.8			
16		33.8	33.4	32.9	33.4	33.8	33.6	33.7	33.7	33.6	33.3	34.5	34.0			
17		34.1	33.6	33.2	33.4	33.8	33.8	33.7	33.7	34.1	33.3	34.1	34.0			
18		33.8	33.6	32.9	33.4	33.7	32.5	33.4	33.7	33.8	33.3	33.6	33.8			
19		33.8	32.9	33.6	34.0	33.7	34.1	33.7	33.6	34.1	34.1	34.4	33.8			
20		33.6	33.8	33.4	33.4	33.7	34.0	33.8	33.8	34.1	33.4	34.1	33.6			
21		33.8	33.8	32.9	33.3	33.8	34.6	33.8	33.8	34.6	34.0	34.4	33.6			
22		34.5	34.0	33.3	33.7	33.4	34.1	33.7	33.7	34.1	34.5	34.0	33.8			
23		34.0	32.9	32.9	33.4	33.7	33.4	33.7	33.7	33.4	33.6	34.2	34.0			
24		33.8	34.5	33.2	33.4	34.1	33.7	33.8	33.8	33.8	34.4	34.4	34.0			
25		34.0	31.8	33.3	33.8	33.8	33.6	33.7	33.8	34.0	34.2	34.0	33.8			
26		31.9	33.6	33.3	33.7	33.7	33.7	33.8	33.6	34.1	34.4	33.6	33.8			
27		34.1	33.4	31.1	33.3	33.7	33.6	33.8	33.4	34.1	34.2	34.0	33.6			
28		34.1	34.2	33.0	33.4	33.6	34.1	34.0	33.2	34.0	34.0	34.0	34.0			
29		33.7		33.3	33.4	33.7	33.8	33.6	33.6	34.0	33.7	34.0	33.8			
30		33.3		33.4	33.7	33.4	34.0	33.8	33.4	34.1	33.7	33.8	33.8			
31		34.0		33.2		33.7		33.7	33.4		33.7		33.3			
1-10 MEAN		33.77	33.97	33.85	33.41	33.72	33.78	33.68	33.64	33.87	33.91	33.84	33.73			
11-20 MEAN		33.92	33.65	33.37	33.49	33.65	33.68	33.68	33.62	33.98	33.64	34.07	33.76			
21-31 MEAN		33.74	33.52	32.99	33.51	33.69	33.86	33.76	33.58	34.02	34.04	34.04	33.77			
MON. MEAN		33.81	33.73	33.39	33.47	33.69	33.77	33.71	33.61	33.96	33.87	33.98	33.81	33.73		
MAX.		34.5	34.5	34.4	34.1	34.1	34.6	34.0	34.0	34.6	34.5	34.5	34.4		34.6	
MIN.		31.9	31.8	31.1	32.0	33.3	32.5	33.4	33.0	33.4	33.3	33.2	33.2			31.1
RANGE		2.6	2.7	3.3	2.1	.8	2.1	.6	1.0	1.2	1.2	1.3	1.2			
STD. DEV.		.50	.56	.62	.38	.19	.38	.14	.22	.23	.31	.33	.31			

SEA WATER SUMMARY: TEMPERATURES — STATION: SANTA MONICA PIER, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	15.55	14.30	15.30	16.45	18.35	18.05	21.20	22.20	20.45	19.45	17.20	16.65			
2		15.65	14.45	16.00	17.20	17.45	17.95	20.65	21.10	22.50	20.05	17.50	16.80			
3		15.45	13.90	16.40	17.10	15.80	19.45	20.10	22.35	22.20	19.45	17.65	16.65			
4		15.10	14.30	16.20	16.10	15.10	18.60	20.55	22.20	22.15	19.10	17.20	17.10			
5		14.15	14.70	15.60	15.80	15.55	18.80	20.55	21.10	21.45	19.45	17.20	16.65			
6		15.55	14.90	15.60	15.50	16.10	18.65	20.15	20.45	20.20	19.15	16.50	16.90			
7		15.55	15.00	16.10	16.50	17.50	18.10	20.30	20.85	19.25	17.45	16.80	16.55			
8		15.55	15.10	16.00	16.60	18.35	18.00	21.60	20.55	22.05	19.80	16.70	16.20			
9		15.65	14.15	16.10	16.35	17.65	18.35	21.65	20.45	21.50	20.15	16.80	16.60			
10		15.85	14.10	16.10	16.65	17.65	18.55	22.10	20.55	21.40	19.55	17.20	16.80			
11		15.85	14.90	16.00	16.55	18.05	18.40	21.95	21.10	21.80	20.00	17.40	16.55			
12		15.85	14.15	16.40	16.50	17.90	18.65	22.20	20.55	21.55	20.10	17.45	16.55			
13		15.70	14.55	16.30	16.40	17.90	18.70	22.20	20.10	22.00	20.55	17.20	16.65			
14		15.70	14.05	16.50	17.10	16.55	19.00	23.20	20.55	22.20	20.30	17.20	16.55			
15		15.65	14.35	16.70	16.65	16.55	19.20	22.50	20.65	20.55	20.05	17.20	15.70			
16		15.70	13.90	16.55	16.55	18.20	20.10	22.80	20.45	20.35	20.05	16.80	16.55			
17		15.65	14.45	16.40	15.85	18.80	19.70	22.40	19.35	21.10	20.55	17.10	16.10			
18		15.65	15.00	16.30	15.65	18.35	20.00	19.70	19.30	21.00	20.55	17.35	15.80			
19		15.45	15.00	16.65	16.40	18.05	21.10	18.90	20.00	21.00	20.55	17.10	15.85			
20		14.45	14.70	17.20	16.35	18.35	20.55	20.65	19.45	20.30	20.10	17.30	15.75			
21		15.45	15.00	17.50	17.20	18.35	20.00	20.00	18.90	20.55	19.90	16.65	15.55			
22		15.00	14.90	17.20	17.20	18.45	19.45	21.10	19.15	20.25	19.65	16.95	15.60			
23		15.15	15.00	16.40	17.80	17.95	19.80	20.55	20.00	20.55	19.90	17.20	15.60			
24		15.30	14.85	15.85	17.20	17.90	21.15	20.45	20.50	19.50	19.50	17.20	15.80			
25		15.55	15.00	14.45	16.20	18.05	20.65	20.55	20.20	20.00	20.00	16.90	15.65			
26		15.40	14.45	15.00	17.10	17.80	20.00	21.05	18.90	20.00	19.45	17.10	14.70			
27		15.45	15.00	15.00	17.05	17.90	20.05	21.65	18.90	20.00	19.45	16.95	15.00			
28		15.10	15.80	15.95	17.80	17.65	20.55	22.20	19.70	19.45	18.80	16.65	14.70			
29		15.55		15.60	17.85	16.90	21.65	21.10	19.55	19.45	18.80	16.65	14.90			
30		15.00		16.00	18.20	17.40	21.30	21.55	20.00	19.15	17.65	16.85	14.90			
31		14.65		15.85		17.90		21.65	21.30		16.10		14.45			
1-10 MEAN		15.40	14.49	15.94	16.42	16.95	18.45	20.88	21.32	21.38	19.55	17.08	16.67			
11-20 MEAN		15.56	14.50	16.50	16.40	17.87	19.54	21.65	20.15	21.26	20.28	17.21	15.92			
21-31 MEAN		15.24	15.00	15.89	17.36	17.84	20.46	21.08	19.65	19.95	19.02	16.91	15.17			
MON. MEAN		15.40	14.64	16.10	16.73	17.56	19.48	21.20	20.55	20.86	19.60	17.06	15.90	17.91		
MAX.		15.85	15.80	17.50	18.20	18.80	21.65	23.20	23.35	22.50	20.55	17.65	17.10		23.35	
MIN.		14.15	13.90	14.45	15.50	15.10	17.95	18.90	18.90	19.15	16.10	16.50	14.45			13.90
RANGE		1.70	1.90	3.05	2.70	3.70	3.70	4.30	4.45	3.35	4.45	1.10	2.65			
STD. DEV.		.41	.43	.71	.67	.89	.96	1.00	1.05	.89	1.00	.27	.64			

SEA WATER SUMMARY: SALINITIES STATION: SANTA MONICA PIER, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.
1	1959	33.3	33.8	33.7	33.8	32.9	33.8	33.7	33.1	33.3		33.2	33.4		
2		33.7	33.8	33.2	33.3	34.0	33.7	34.0	33.4	33.2	33.6	33.7	33.3		
3		33.4	33.8	32.9	33.7	34.0	33.0	34.0	33.6	33.3	33.6	33.4	33.4		
4		33.4	33.7	33.4	33.4	34.0	33.2	33.3	33.2	33.4	33.7	33.7	33.4		
5		33.8	33.6	33.7	33.7	33.8	33.7	33.7	33.6	33.7	33.2	33.4	33.7		
6		33.6	34.1	33.8	33.6	33.8	33.6	33.7	33.4	33.6	33.3	33.3	34.1		
7		33.6	34.0	33.8	34.1	33.4	33.7	33.8	33.4	34.1	33.3	33.3	33.8		
8		33.4	33.6	33.7	34.2	33.6	33.2	33.8	33.4	33.7	33.7	33.0	33.4		
9		33.7	33.8	33.4	33.8	33.8	34.0	33.3	33.4	33.0	33.2	33.6	34.0		
10		34.0	33.6	33.8	33.6	34.2	34.2	33.4	33.4	33.3	33.7	34.1	33.6		
11		33.8	34.6	33.6	33.7	33.7	33.4	33.4	33.6	33.3	33.7	33.8	33.4		
12		33.8	33.6	33.4	33.6	33.6	33.4	33.6	33.4	33.3	33.6	33.4	33.7		
13		34.0	33.6	33.8	33.3	34.0	34.0	33.4	33.6	33.2	33.4	33.8	33.7		
14		33.8	33.7	33.8	33.6	33.8	33.7	33.8	33.8	33.2	33.3	34.4	33.8		
15		33.4	34.0	33.8	34.0	34.1	33.7	33.6	33.4	33.7	33.3	34.4	33.9		
16		33.6	31.5	33.8	33.8	33.7	33.6	33.4	33.7	34.2	33.2	33.7	33.6		
17		33.3	33.3	33.8	34.1	33.4	33.7	33.6	34.0	33.8	33.6	32.9	33.4		
18		33.3	33.7	33.8	33.6	33.7	33.6	33.8	34.0	33.7	33.4	33.2	33.6		
19		33.6	33.7	34.0	33.7	33.7	33.8	33.7	33.2	34.1	33.3	33.7	33.8		
20		33.6	33.6	33.7	33.6	34.2	34.0	34.0	33.3	33.8	33.4	33.7	34.0		
21		33.8	33.6	33.8	33.8	33.8	33.7	33.6	33.7	33.7	33.3	34.1	33.8		
22		33.7	33.6	33.6	33.8	33.7	33.7	33.3	33.9	33.4	33.4	34.1	33.8		
23		33.4	33.7	34.0	32.5	34.0	33.7	33.2	33.4	33.7	33.6	33.4	33.2		
24		33.8	33.8	34.1	32.9	33.8	33.6	33.4	34.1	34.0	32.5	33.3	33.3		
25		33.8	33.8	33.8	33.7	33.7	34.0	33.4	33.9	33.6	33.7	33.2	33.2		
26		33.8	33.8	34.2	33.3	33.6	33.7	33.6	33.8	33.8	33.3	33.2	33.8		
27		33.3	33.7	33.8	33.3	33.7	33.7	34.4	33.2	33.3	33.6	34.4	33.0		
28		33.8	33.7	33.4	33.3	34.0	33.4	33.8	33.3	33.3	33.6	34.2	33.2		
29		33.7		33.8	33.2	34.1	33.6	33.3	33.4	33.6	33.4	33.8	33.4		
30		33.8		33.7	32.9	34.0	34.0	33.6	33.2	33.8	33.6	33.6	33.2		
31		34.0		34.0		34.0		33.3	33.4		34.1		33.0		
1-10 MEAN		33.59	33.78	33.54	33.72	33.75	33.67	33.67	33.44	33.46	33.37	33.47	33.60		
11-20 MEAN		33.62	33.53	33.75	33.70	33.79	33.69	33.63	33.60	33.63	33.42	33.70	33.68		
21-31 MEAN		33.72	33.71	33.84	33.27	33.85	33.71	33.54	33.54	33.62	33.37	33.73	33.35		
MON. MEAN		33.64	33.67	33.71	33.56	33.80	33.69	33.61	33.53	33.57	33.39	33.63	33.54	33.61	
MAX.		34.0	34.6	34.2	34.2	34.2	34.2	34.4	34.1	34.2	34.1	34.4	34.1		34.6
MIN.		33.3	31.5	32.9	32.5	32.9	33.0	33.2	33.2	33.0	32.5	32.9	33.0		31.5
RANGE		.7	3.1	1.3	1.7	1.3	1.2	1.2	.9	1.2	1.8	1.5	1.1		
STD DEV		.19	.54	.30	.40	.28	.27	.26	.23	.29	.41	.44	.26		

SEA WATER SUMMARY: TEMPERATURES — STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1945	14.44	14.39	13.00	13.11	16.05	15.60	18.00	19.25	18.00	19.00	16.00	14.50			
2		14.33	14.61	12.78	13.00	17.00	16.60	17.75	20.00	19.00	18.80	15.33	14.50			
3		14.22	14.63	12.62	12.94	16.00	16.00	17.00	20.75	19.00	19.35	15.56	14.15			
4		14.44	14.95	12.89	13.05	15.95	17.10	17.00	20.75	20.00	19.10	15.50	14.25			
5		14.33	14.44	13.67	13.11	14.80	16.80	17.10	20.75	20.00	19.30	16.11	14.95			
6		14.61	14.72	13.89	13.90	14.90	17.40	17.00	20.75	20.75	19.75	16.56	14.56			
7		14.83	14.95	13.22	14.50	14.50	17.25	18.00	18.25	20.75	19.50	16.06	14.05			
8		14.95	14.72	13.89	14.80	15.00	17.50	18.20	18.80	21.25	19.05	15.83	14.50			
9		14.61	14.61	13.93	13.70	15.00	17.90	18.50	18.75	20.50	18.30	15.56	14.00			
10		14.56	14.44	13.78	11.70	15.25	18.00	18.20	19.25	20.22	17.95	15.11	14.30			
11		14.83	15.56	14.28	13.28	16.10	18.20	17.80	20.10	20.33	17.30	15.00	15.00			
12		14.61	14.56	14.44	13.10	15.25	18.00	17.25	20.00	20.84	18.00	15.11	14.80			
13		14.89	14.89	13.61	13.50	15.75	18.50	18.00	19.10	20.84	18.00	14.50	14.00			
14		15.17	14.83	13.72	13.11	16.10	18.80	18.70	18.00	20.22	18.50	14.56	13.60			
15		14.44	14.44	13.39	13.00	16.25	18.50	18.50	18.25	19.94	17.95	15.00	14.00			
16		14.44	14.44	14.93	13.80	17.00	18.50	18.90	19.00	20.25	17.89	14.72	14.10			
17		14.33	14.44	14.11	14.20	16.00	18.00	18.00	19.50	20.72	17.33	14.72	14.00			
18		14.28	13.45	13.72	14.10	17.10	18.50	17.75	20.25	20.65	17.00	14.28	14.10			
19		14.39	13.72	13.28	13.80	15.75	18.75	17.25	20.50	19.35	16.45	14.61	13.75			
20		13.28	13.95	13.83	13.90	15.25	19.00	18.39	19.17	18.30	16.67	14.83	14.60			
21		14.00	14.22	13.95	13.95	16.60	19.00	19.25	19.00	17.65	17.78	14.90	14.90			
22		14.17	13.89	14.50	14.45	16.70	18.90	19.50	19.00	17.00	18.61	15.11	15.11			
23		13.39	13.95	13.89	14.70	16.85	19.40	20.75	19.75	16.75	18.00	14.30	15.85			
24		13.67	13.89	13.33	14.80	16.00	19.00	21.00	20.00	17.85	18.17	14.50	15.00			
25		14.00	14.11	12.78	15.05	15.80	18.50	21.25	20.50	17.85	18.00	13.50	15.95			
26		13.95	13.33	12.22	15.00	16.60	18.00	21.75	21.50	18.50	16.89	14.00	15.00			
27		13.89	13.28	11.67	15.40	16.25	17.80	21.75	21.00	18.90	16.95	15.05	15.50			
28		13.95	13.22	12.11	14.80	17.00	18.50	21.75	20.50	18.00	17.50	14.89	15.00			
29		13.89		12.33	14.20	16.75	18.75	19.50	20.60	18.50	17.17	15.00	14.50			
30		13.39		12.56	16.10	16.15	18.00	19.00	20.20	18.75	16.83	15.00	15.00			
31		14.11		12.45		16.25		19.50	19.00	"	16.17		15.05			
MEAN		14.27	14.31	13.34	13.94	16.00	18.03	18.78	19.77	19.36	17.98	15.04	14.60	16.28		
MAX.		15.17	15.56	14.50	16.10	17.10	19.40	21.75	21.50	21.25	19.75	16.56	15.95		21.75	
MIN.		13.28	13.22	11.67	11.70	14.50	15.60	17.00	18.00	16.75	16.17	13.50	13.60			11.67
RANGE		1.89	2.34	2.83	4.40	2.60	3.80	4.75	3.50	4.50	3.58	3.06	2.35			
STD.DEV.		.47	.56	.70	.94	.65	.93	1.29	.85	1.14	.90	.71	.60			

SEA WATER SUMMARY: *Salinities Daily Surface* STATION: *Balboa, Calif.*

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC	MEAN	MAX.	MIN.
1	1945	33.57	33.38	33.51	33.40	33.50	33.54	33.66	33.70	33.80	33.62	33.61	33.46			
2		33.57	33.38	33.47	33.30	33.39	33.38	33.61	33.66	33.74	33.78	33.58	33.57			
3		33.55	33.42	33.46	33.40	33.34	33.44	33.69	33.70	33.73	33.68	33.62	33.51			
4		33.60	33.39	33.38	33.46	33.53	33.42	33.70	33.70	33.77	33.67	33.58	33.46			
5		33.58	33.40	33.36	33.47	33.53	33.58	33.53	33.73	33.74	33.62	33.57	33.54			
6		33.57	33.47	33.37	33.40	33.50	33.64	33.61	33.75	33.78	33.73	33.54	33.53			
7		33.53	33.41	33.37	33.49	33.46	33.61	33.58	33.73	33.74	33.70	33.44	33.51			
8		33.53	33.51	33.46	33.58	33.53	33.66	33.58	33.68	33.71	33.81	33.58	33.47			
9		33.57	33.48	33.39	33.42	33.31	33.60	33.61	33.62	33.77	33.73	33.57	33.51			
10		33.58	33.51	33.46	33.41	33.28	33.63	33.62	33.75	33.84	33.75	33.57	33.37			
11		33.57	33.50	33.44	33.40	33.44	33.61	33.64	33.77	33.77	33.69	33.55	33.47			
12		33.49	33.50	33.53	33.54	33.40	33.57	33.71	33.73	33.71	33.57	33.47	33.58			
13		33.54	33.44	33.44	33.53	33.37	33.53	33.58	33.75	33.71	33.66	33.51	33.53			
14		33.48	33.49	33.49	33.44	33.33	33.51	33.58	33.86	33.75	33.58	33.44	33.58			
15		33.49	33.42	33.57	33.42	33.51	33.51	33.57	33.80	33.78	33.55	33.46	33.42			
16		33.47	33.48	33.49	33.48	33.44	33.48	33.53	33.73	33.80	33.57	33.47	33.53			
17		33.31	33.46	33.57	33.58	33.35	33.49	33.58	33.73	33.74	33.54	33.46	33.54			
18		33.38	33.40	33.62	33.57	33.37	33.54	33.71	33.74	33.74	33.57	33.53	33.55			
19		33.40	33.30	33.51	33.47	33.35	33.61	33.62	33.77	33.73	33.57	33.53	33.48			
20		33.47	33.34	33.50	33.39	33.41	33.61	33.62	33.69	33.75	33.55	33.50	33.53			
21		33.38	33.41	33.41	33.44	33.44	33.67	33.78	33.66	33.75	33.53	33.48	33.51			
22		33.34	33.30	33.38	33.48	33.42	33.64	33.78	33.78	33.75	33.57	33.50	33.66			
23		33.37	33.35	33.40	33.42	33.41	33.70	33.77	33.86	33.77	33.67	33.57	33.66			
24		33.38	33.38	33.34	33.41	33.53	33.77	33.66	33.80	33.70	33.61	33.39	33.69			
25		33.37	33.27	33.26	33.42	33.38	33.68	33.73	33.75	33.74	33.64	33.54	33.73			
26		33.41	33.31	33.34	33.42	33.34	33.57	33.63	33.68	33.80	33.75	33.49	33.42			
27		33.41	33.30	33.38	33.47	33.30	33.57	33.69	33.71	33.84	33.69	33.51	33.49			
28		33.46	33.30	33.46	33.35	33.35	33.60	33.68	33.77	33.81	33.66	33.57	33.51			
29		33.34		33.41	33.40	33.33	33.57	33.62	33.73	33.62	33.77	33.62	33.48			
30		33.34		33.38	33.58	33.48	33.64	33.77	33.77	33.74	33.73	33.54	33.47			
31		33.42		33.50		33.47		33.71	33.86		33.61		33.53			
MEAN		33.47	33.41	33.44	33.45	33.41	33.58	33.65	33.74	33.76	33.65	33.52	33.53	33.55		
MAX.		33.60	33.51	33.62	33.56	33.58	33.77	33.78	33.86	33.84	33.81	33.62	33.73		33.86	
MIN.		33.31	33.27	33.26	33.30	33.28	33.38	33.53	33.62	33.62	33.53	33.38	33.37			33.26
RANGE		.29	.24	.36	.28	.30	.39	.25	.24	.22	.28	.24	.36			
STD.DEV.		.07	.06	.09	.07	.07	.09	.07	.06	.05	.07	.06	.08			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF.

DAILY SURFACE

1946	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG	SEPT	OCT	NOV	DEC.	MEAN	MAX	MIN
1		15 11	13.00	14.00	14.75	16.90	17.10	20.00	21.50	20 00	20.30	17.30	15 40			
2		15.00	13.10	14.00	15.00	17.50	17.60	19.50	20.25	20.00	[illegible]	16 40	[illegible]			
3		15.05	13.25	14.10	14.50	16.45	17 95	19.75	20.10	19.55	[illegible]	16 15	[illegible]			
4		14.80	12.90	13.00	14.75	16.00	18.35	19.85	21.05	19.00	[illegible]	15.55	16.30			
5		15.00	13.10	12.80	16.15	16.20	18.05	20.00	20.90	19.30	17.45	15.90	15.25			
6		13.00	13.00	13.30	16.00	16.95	18.25	20.15	21.80	19.40	[illegible]	15.60	15.55			
7		12.80	13.00	13.30	15.75	17.15	18.90	20.25	21.85	19.50	19.05	15.75	15.20			
8		12.90	13.45	13.30	15.75	16.75	19.00	19.60	20.25	[illegible]	19.40	15.52	[illegible]			
9		12.80	13.25	13.75	15.80	16.80	18.55	20.80	21.45	19.75	19.25	15.80	14.35			
10		12.10	14.05	14.00	16.00	16.30	18.90	21.25	20.20	19.50	[illegible]	15.65	14.50			
11		12.75	13.25	13.30	16.10	16.60	17.55	20.80	20.65	17.70	19.27	16.00	14.55			
12		11.75	12.40	13.17	16.00	16.45	18.25	20.10	21.50	16.65	19.40	15.45	14.65			
13		12.00	12.75	13.00	16.85	16.25	18.95	20.00	20.08	17.50	18.40	15.80	14.50			
14		12.70	12.90	12.00	16.25	16.55	18.90	20.60	18.00	18.00	18.80	15.80	14.95			
15		12.30	13.00	12.00	15.85	16.50	19.75	19.90	17.55	17.65	18.45	15.85	14.15			
16		13.30	13.75	13.75	15.25	16.35	19.45	20.10	17.90	18.89	19.00	15.95	14.15			
17		13.80	14.00	13.25	15.10	16.25	19.50	20.25	18.62	18.55	18.15	15.50	14.50			
18		14.20	12.90	13.20	15.00	14.50	19.00	20.65	18.70	18.45	18.35	16.00	14.35			
19		14.25	12.75	13.30	16.10	13.90	20.10	21.10	20.00	18.70	17.95	15.80	14.95			
20		14.00	13.05	13.00	15.70	15.30	20.25	20.25	18.90	20.00	17.40	15.98	14.80			
21		14.00	13.00	12.80	15.50	15.10	20.00	18.35	19.00	19.95	17.20	16.00	14.95			
22		12.80	14.10	13.20	16.00	15.00	20.10	19.50	19.60	20.00	17.60	15.75	14.80			
23		13.00	14.00	13.25	17.00	14.45	20.25	19.25	19.00	20.00	17.85	16.02	14.97			
24		14.60	13.50	14.00	16.10	14.70	20.20	21.00	18.60	19.12	18.00	16.00	15.00			
25		13.15	13.30	14.20	17.00	14.80	20.35	20.30	18.35	19.05	18.30	15.97	15.02			
26		13.75	13.95	14.00	17.10	14.10	20.10	19.55	18.90	18.75	18.50	15.20	15.30			
27		13.75	13.85	14.25	17.50	15.05	20.00	17.80	18.70	16.55	18.05	16.00	15.05			
28		14.10	14.00	14.10	16.65	15.95	19.45	19.05	19.35	18.95	18.00	16.95	15.00			
29		13.50		14.75	16.55	16.10	19.00	20.10	19.00	19.10	17.35	15.95	15.00			
30		12.80		14.75	16.75	16.90	19.75	19.10	19.00	20.05	17.00	15.47	14.80			
31		13.05		14.75		16.90		21.00	19.50		17.95		14.05			
MEAN		13.49	13.29	13.53	15.96	15.96	19.12	20.00	19.69	19.04	18.59	15.90	14.86	16.62		
MAX.		15.11	14.10	14.75	17.50	17.50	20.35	21.25	21.85	20.05	20.30	17.30	16.30		21.85	
MIN.		11.75	12.40	12.00	14.50	13.90	17.10	17.80	17.55	16.65	17.00	15.20	14.05			11.75
RANGE		3.36	1.70	2.75	3.00	3.60	3.25	3.45	4.30	3.40	3.30	2.10	2.25			
STD.DEV.		.87	.42	.74	.73	.90	.81	.84	1.11	.81	.82	.49	.49			

SEA WATER SUMMARY: SALINITIES STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1946	33.55	33.21	33.50	33.49	33.78	33.61	33.70	33.77	33.66	33.57	33.75	33.49			
2		33.46	33.54	33.61	33.50	33.70	33.68	33.74	33.67	33.53	33.48	33.77	33.50			
3		33.48	33.49	33.53	33.54	33.61	33.67	33.77	33.69	33.71	33.62	33.62	33.47			
4		33.53	33.53	33.53	33.58	33.66	33.77	33.71	33.84	33.62	33.66	33.66	33.50			
5		33.66	33.31	33.47	33.57	33.66	33.71	33.62	33.71	33.61	33.67	33.75	33.57			
6		33.69	33.34	33.44	33.58	33.77	33.61	33.78	33.69	33.67	33.67	33.80	33.57			
7		33.69	33.54	33.51	33.67	33.74	33.74	33.77	33.68	33.61	33.58	33.75	33.55			
8		33.57	33.61	33.50	33.62	33.73	33.66	33.81	33.61	33.55	33.66	33.77	33.53			
9		33.58	33.56	33.54	33.55	33.73	33.70	33.73	33.71	33.66	33.77	33.66	33.48			
10		33.50	33.70	33.55	33.67	33.69	33.78	33.71	33.74	33.55	33.60	33.60	33.57			
11		33.49	33.57	33.77	33.55	33.58	33.68	33.73	33.71	33.55	33.66	33.51	33.57			
12		33.57	33.55	33.62	33.60	33.60	33.78	33.75	33.77	33.61	33.75	33.64	33.53			
13		33.57	33.70	33.67	33.62	33.73	33.70	33.77	33.70	33.70	33.62	33.75	33.55			
14		33.55	33.51	33.57	33.62	33.75	33.69	33.64	33.69	33.69	33.67	33.57	33.57			
15		33.46	33.62	33.70	33.70	33.74	33.73	33.75	33.73	33.74	33.71	33.68	33.57			
16		33.51	33.47	33.46	33.74	33.61	33.74	33.81	33.74	33.53	33.77	33.55	33.61			
17		33.54	33.57	33.21	33.61	33.57	33.77	33.75	33.77	33.61	33.73	33.62	33.47			
18		33.51	33.47	33.21	33.71	33.73	33.78	33.84	33.75	33.64	33.69	33.60	33.49			
19		33.48	33.50	33.48	33.70	33.55	33.74	33.66	33.80	33.64	33.66	33.47	33.51			
20		33.66	33.55	33.47	33.60	33.67	33.75	33.74	33.66	33.64	33.81	33.51	33.49			
21		33.62	33.62	33.58	33.67	33.84	33.73	33.77	33.71	33.64	33.78	33.57	33.55			
22		33.58	33.31	33.68	33.64	33.75	33.60	33.75	33.68	33.64	33.80	33.64	33.44			
23		33.49	33.37	33.67	33.68	33.82	33.60	33.77	33.75	33.67	33.80	33.60	33.49			
24		33.28	33.60	33.57	33.61	33.78	33.68	33.73	33.70	33.61	33.70	33.51	33.53			
25		33.28	33.66	33.53	33.69	33.84	33.70	33.77	33.66	33.66	33.71	33.53	33.60			
26		33.49	33.51	33.26	33.71	33.77	33.71	33.69	33.66	33.66	33.84	33.55	33.53			
27		33.44	33.34	33.30	33.66	33.70	33.67	33.71	33.66	33.61	33.70	33.57	33.50			
28		33.26	33.42	33.31	33.70	33.74	33.58	33.68	33.68	33.62	33.64	33.50	33.58			
29		33.39		33.47	33.69	33.77	33.74	33.68	33.64	33.67	33.61	33.48	33.54			
30		33.53		33.57	33.71	33.68	33.74	33.75	33.68	33.67	33.62	33.53	33.64			
31		33.42		33.28		33.66		33.74	33.55		33.61		33.48			
MEAN		33.51	33.51	33.50	33.63	33.71	33.70	33.74	33.70	33.63	33.68	33.62	33.53	33.62		
MAX.		33.69	33.70	33.77	33.74	33.84	33.78	33.84	33.84	33.74	33.84	33.80	33.64		33.84	
MIN.		33.26	33.21	33.21	33.49	33.55	33.58	33.62	33.55	33.53	33.48	33.47	33.44			33.21
RANGE		.43	.49	.56	.25	.29	.20	.22	.29	.21	.36	.33	.20			
STD.DEV.		.11	.12	.14	.06	.08	.05	.05	.06	.07	.08	.08	.05			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX	MIN.
1	1947	14.30	12.83	14.39	16.11	16.17	8.33	18.06	21.89	8.50	18.50	18.22	15.68			
2		14.00	13.00	14.83	16.61	15.56	17.83	16.39	22.56	18.45	19.00	16.78	15.17			
3		14.05	13.78	14.83	16.17	15.78	17.39	16.50	22.56	18.22	19.06	16.60	15.33			
4		14.10	13.28	13.89	13.95	16.45	17.78	18.50	21.11	18.61	18.67	16.67	15.56			
5		14.02	13.83	13.83	14.72	17.22	18.28	18.72	20.22	17.50	18.72	16.50	15.33			
6		15.00	13.56	13.50	15.00	17.11	17.78	18.56	19.83	18.33	18.61	15.00	15.22			
7		14.10	13.83	14.61	13.89	15.89	18.61	19.45	20.17	19.22	19.00	15.45	15.11			
8		15.05	13.83	14.44	13.95	15.33	17.83	18.00	21.39	20.00	19.00	14.33	15.22			
9		13.56	14.22	14.39	15.05	16.00	18.39	18.17	22.89	19.78	18.11	15.00	14.05			
10		13.56	14.67	14.56	15.56	16.81	18.11	17.95	22.10	20.60	18.33	15.55	13.78			
11		13.45	13.83	14.72	15.50	16.67	17.89	18.00	20.00	20.00	18.61	15.39	14.22			
12		13.56	14.17	14.44	16.39	17.56	18.11	18.39	19.12	19.89	18.72	15.61	14.17			
13		13.72	14.05	14.56	14.50	16.56	18.67	18.56	21.30	19.72	19.00	15.39	14.11			
14		13.78	14.00	14.78	15.78	17.58	18.95	19.17	21.70	18.95	18.95	14.83	13.95			
15		13.67	14.30	15.33	16.00	17.22	19.50	18.72	21.50	18.95	18.56	15.61	14.40			
16		13.17	14.50	14.89	16.95	17.11	19.50	19.06	21.10	19.45	18.06	15.50	13.72			
17		13.83	14.39	15.45	16.61	17.33	19.45	18.89	20.95	19.50	18.11	15.95	13.95			
18		12.94	14.39	15.11	16.39	17.39	19.17	19.22	20.00	19.22	18.00	15.50	13.72			
19		13.17	13.89	14.72	16.67	16.33	19.33	19.67	19.50	17.78	17.50	15.67	13.72			
20		13.78	14.22	15.33	16.72	18.78	19.72	20.39	18.70	18.28	17.33	15.22	14.11			
21		13.95	13.89	15.00	16.95	18.28	20.33	20.56	19.89	19.00	17.89	15.28	14.33			
22		13.50	13.95	15.45	16.67	18.17	20.84	20.78	20.06	19.25	17.28	15.17	13.83			
23		13.45	13.56	15.39	17.28	18.17	20.11	21.28	19.00	19.27	17.50	14.78	13.61			
24		13.39	15.39	16.17	17.45	18.06	19.89	22.11	19.61	19.50	17.45	14.95	13.56			
25		13.50	14.56	15.67	16.61	17.78	19.78	20.56	19.00	19.33	17.72	15.11	14.39			
26		13.78	14.50	15.50	17.22	17.22	19.61	19.83	19.33	19.11	18.00	14.95	13.67			
27		14.00	14.05	15.83	15.83	17.22	18.56	18.17	19.11	17.95	18.33	15.11	14.05			
28		13.67	14.44	15.67	15.33	16.95	19.17	18.89	19.61	18.22	18.45	15.17	13.83			
29		12.39		16.06	15.22	18.11	19.72	19.56	19.05	18.61	18.45	15.50	14.28			
30		12.56		16.45	15.72	18.11	19.45	20.00	18.00	18.95	18.28	15.00	13.05			
31		12.89		16.67		18.28		20.11	18.05		18.00		12.45			
MEAN		13.67	14.03	15.05	15.89	17.20	18.94	19.10	20.30	19.01	18.30	15.53	14.24	16.78		
MAX.		15.05	15.39	16.67	17.45	18.78	20.84	22.11	22.89	20.60	19.06	18.22	15.68		22.89	
MIN.		12.39	12.83	13.50	13.89	15.33	17.39	16.39	18.00	17.50	17.28	14.33	12.45			12.39
RANGE		2.66	2.56	3.17	3.56	3.45	3.45	5.72	4.89	3.10	1.78	3.89	3.23			
STD.DEV.		.69	.59	.78	.94	.84	.82	1.42	1.27	.73	.47	.80	.78			

SEA WATER SUMMARY: SALINITIES STATION: BALBOA, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1947	33.53	33.27	33.37	33.39	33.68	33.54	33.61	33.61	33.62	33.62	33.70	33.53			
2		33.44	33.31	33.30	33.30	33.66	33.57	33.64	33.57	33.70	33.64	33.49	33.55			
3		33.41	33.40	33.35	33.35	33.71	33.51	33.73	33.62	33.70	33.66	33.50	33.55			
4		33.47	33.46	33.34	33.38	33.73	33.60	33.71	33.70	33.61	33.71	33.69	33.58			
5		33.51	33.42	33.40	33.33	33.75	33.57	33.75	33.71	33.64	33.46	33.66	33.62			
6		33.39	33.35	33.30	33.28	33.57	33.61	33.78	33.77	33.67	33.61	33.49	33.58			
7		33.35	33.48	33.41	33.38	33.70	33.58	33.82	33.71	33.58	33.66	33.49	33.57			
8		33.48	33.47	33.34	33.41	33.64	33.55	33.71	33.77	33.67	33.57	33.57	33.50			
9		33.28	33.30	33.39	33.50	33.69	33.62	33.60	33.86	33.64	33.50	33.48	33.50			
10		33.33	33.35	33.34	33.54	33.71	33.58	33.70	33.82	33.69	33.58	33.53	33.57			
11		33.37	33.38	33.18	33.57	33.64	33.60	33.80	33.78	33.61	33.49	33.64	33.55			
12		33.42	33.42	33.28	33.50	33.68	33.75	33.77	33.77	33.68	33.50	33.55	33.54			
13		33.30	33.40	33.28	33.57	33.71	33.58	33.75	33.86	33.54	33.38	33.64	33.54			
14		33.39	33.53	33.33	33.67	33.54	33.57	33.53	33.77	33.49	33.57	33.58	33.60			
15		33.37	33.54	33.38	33.67	33.70	33.58	33.73	33.84	33.66	33.64	33.66	33.67			
16		33.53	33.42	33.39	33.68	33.70	33.67	33.71	33.84	33.60	33.70	33.58	33.41			
17		33.47	33.37	33.39	33.66	33.69	33.57	33.71	33.81	33.48	33.53	33.57	33.41			
18		33.31	33.30	33.24	33.71	33.67	33.57	33.69	33.75	33.61	33.60	33.47	33.41			
19		33.30	33.31	33.49	33.66	33.60	33.62	33.77	33.81	33.53	33.57	33.48	33.55			
20		33.38	33.34	33.41	33.57	33.60	33.67	33.78	33.68	33.54	33.58	33.53	33.46			
21		33.40	33.30	33.35	33.68	33.62	33.61	33.73	33.71	33.55	33.46	33.61	33.38			
22		33.51	33.35	33.30	33.60	33.70	33.68	33.75	33.77	33.58	33.58	33.50	33.42			
23		33.48	33.39	33.42	33.57	33.77	33.78	33.69	33.77	33.70	33.62	33.46	33.41			
24		33.42	33.34	33.44	33.73	33.68	33.69	33.73	33.73	33.66	33.60	33.66	33.35			
25		33.37	33.30	33.41	33.57	33.71	33.74	33.69	33.82	33.53	33.58	33.71	33.46			
26		33.47	33.30	33.42	33.57	33.58	33.61	33.67	33.77	33.60	33.58	33.66	33.47			
27		33.37	33.24	33.31	33.66	33.57	33.70	33.69	33.82	33.55	33.64	33.73	33.47			
28		33.46	33.28	33.44	33.66	33.74	33.57	33.81	33.77	33.54	33.53	33.61	33.42			
29		33.42		33.30	33.67	33.77	33.61	33.75	33.77	33.58	33.47	33.57	33.62			
30		33.49		33.46	33.69	33.57	33.78	33.70	33.77	33.57	33.57	33.61	33.61			
31		33.37		33.37		33.44		33.75	33.74		33.62		33.46			
MEAN		33.41	33.37	33.36	33.55	33.66	33.62	33.72	33.76	33.60	33.57	33.58	33.51	33.56		
MAX.		33.53	33.54	33.49	33.73	33.77	33.78	33.82	33.86	33.70	33.71	33.73	33.67		33.86	
MIN.		33.28	33.24	33.18	33.28	33.44	33.51	33.53	33.57	33.48	33.38	33.46	33.35			33.18
RANGE		.25	.30	.31	.45	.33	.27	.29	.29	.22	.33	.27	.32			
STD.DEV.		.06	.08	.07	.12	.08	.07	.07	.07	.06	.08	.07	.08			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	MAX.	MIN.
1	1948	12.94	13.50	12.78	14.00	14.28	15.10	17.00	17.78	18.00	17.67	15.72	14.[illegible]			
2		13.11	13.50	13.00	13.95	15.56	15.78	17.06	19.22	18.50	17.11	15.00	13.45			
3		13.39	13.00	13.56	13.72	16.00	16.56	16.78	19.95	18.83	16.17	14.56	14.39			
4		13.45	12.83	12.94	13.89	16.70	16.22	16.67	19.72	19.33	17.00	14.73	13.67			
5		13.45	13.05	13.00	13.72	16.67	16.95	17.45	19.50	19.67	17.00	15.72	14.45			
6		13.39	12.89	13.00	14.00	16.50	16.00	17.00	19.33	19.00	17.00	15.50	14.78			
7		13.00	13.00	13.45	13.00	16.56	16.50	17.06	18.00	19.00	17.00	15.50	14.33			
8		13.45	12.67	13.50	13.95	17.00	16.50	17.11	18.50	18.50	17.22	15.65	14.56			
9		13.61	12.95	13.67	14.05	16.61	16.45	17.17	18.00	17.00	17.67	14.61	14.33			
10		13.50	12.94	14.00	14.33	16.67	15.56	17.33	18.00	16.22	17.00	15.33	14.50			
11		13.56	12.22	13.95	14.28	17.05	16.00	18.78	18.33	17.11	16.89	15.00	14.67			
12		13.67	11.61	13.89	14.05	16.72	16.22	18.50	18.22	18.50	17.61	15.39	14.56			
13		13.95	12.33	13.72	13.39	17.00	16.56	18.00	17.50	18.89	17.61	15.50	14.95			
14		13.00	12.67	14.00	13.95	17.33	16.22	18.22	18.33	19.00	16.95	15.56	14.44			
15		13.33	12.78	13.33	14.00	17.95	16.72	18.00	18.78	19.70	15.83	15.50	13.45			
16		13.72	13.15	13.60	13.83	18.22	16.95	17.00	19.00	19.94	16.45	15.60	13.72			
17		13.50	13.00	14.00	14.44	18.45	17.00	17.50	17.83	20.33	17.00	15.00	14.33			
18		13.56	13.00	13.17	14.67	17.75	17.67	18.00	18.00	19.50	17.22	15.61	13.83			
19		13.25	13.00	13.33	14.78	18.45	18.06	18.50	18.22	18.22	17.33	14.72	13.45			
20		13.00	13.05	12.83	14.61	19.33	17.50	18.33	18.56	18.80	16.50	15.33	13.89			
21		13.25	12.94	12.78	14.72	18.89	18.33	18.45	18.67	18.67	15.95	15.00	13.22			
22		13.50	13.33	13.56	14.00	18.56	17.22	18.50	18.00	17.50	15.89	14.35	13.95			
23		13.70	12.94	13.11	14.83	19.78	18.22	19.00	19.22	18.50	15.67	14.39	13.39			
24		13.75	12.00	13.00	14.00	14.78	18.33	19.61	16.56	18.00	16.50	14.28	12.72			
25		14.00	12.28	12.83	14.05	14.90	17.61	18.11	17.78	18.00	16.80	14.67	13.39			
26		13.85	12.33	12.67	14.89	14.72	16.56	19.00	18.00	17.50	16.50	15.11	13.56			
27		13.50	12.78	12.83	15.90	15.00	16.00	18.72	17.33	17.60	16.00	13.00	13.33			
28		13.00	12.67	13.00	15.45	15.45	16.00	18.95	15.22	17.83	16.06	14.22	13.50			
29		13.50	12.11	13.17	15.33	16.00	15.89	18.89	16.22	17.83	16.39	13.50	13.22			
30		13.25		13.05	14.95	16.67	16.83	18.50	17.00	17.33	16.33	14.85	13.45			
31		13.50		13.67		16.00		18.33	17.95		16.00		13.56			
MEAN		13.44	12.78	13.30	14.29	16.82	16.72	17.98	18.15	18.41	16.72	15.07	13.76	15.62		
MAX.		14.00	13.50	14.00	15.90	19.78	18.33	19.61	19.95	20.33	17.67	16.83	14.95		20.33	
MIN.		12.94	11.61	12.67	13.00	14.28	15.10	16.67	15.22	16.22	15.67	13.00	12.45			11.61
RANGE		1.06	1.89	1.33	2.90	5.50	3.23	2.94	4.73	4.11	2.00	3.83	2.50			
STD.DEV.		.27	.47	.34	.68	1.37	.79	.70	1.12	.96	.52	.98	.60			

SEA WATER SUMMARY: SALINITIES STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX	MIN.
1	1948	33.40	33.61	33.68	33.54	33.49	33.77	33.5-	33.69	33.50	33.4	33.4[illegible]	33.48			
2		33.54	33.70	33.55	33.51	33.69	33.47	33.51	33.51	33.75	33.[illegible]	33.46	33.62			
3		33.62	33.60	33.57	33.69	33.75	33.62	33.58	33.67	33.55	33.4[illegible]	33.42	33.68			
4		33.41	33.60	33.54	33.47	33.46	33.68	33.57	33.73	33.57	33.[illegible]	33.4[illegible]	33.65			
5		33.46	33.48	33.72	33.48	33.49	33.51	33.49	33.4[illegible]	33.[illegible]	33.57	33.49	33.57			
6		33.57	33.62	33.39	33.44	33.61	33.75	33.49	33.50	33.57	33.5[illegible]	33.53	33.57			
7		33.50	33.61	33.37	33.49	33.75	33.69	33.53	33.46	33.4[illegible]	33.5[illegible]	33.58	33.57			
8		33.62	33.47	33.61	33.55	33.62	33.47	33.44	33.64	33.[illegible]	33.5[illegible]	33.35	33.39			
9		33.55	33.58	33.54	33.46	33.58	33.64	33.58	33.67	33.64	33.39	33.35	33.48			
10		33.53	33.55	33.70	33.46	33.64	33.54	33.53	33.47	33.80	33.30	33.40	33.57			
11		33.44	33.53	33.54	33.53	33.41	33.64	33.61	33.57	33.47	33.34	33.39	33.35			
12		33.48	33.55	33.54	33.57	33.54	33.69	33.68	33.69	33.57	33.5[illegible]	33.30	33.49			
13		33.58	33.57	33.51	33.58	33.70	33.75	33.61	33.64	33.62	33.54	33.38	33.46			
14		33.50	33.53	33.54	33.38	33.69	33.77	33.57	33.67	33.55	33.58	33.42	33.56			
15		33.49	33.75	33.55	33.21	33.75	33.62	33.60	33.74	33.74	33.66	33.40	33.42			
16		33.50	33.77	33.54	33.53	33.53	33.70	33.64	33.46	33.51	33.70	33.64	33.46			
17		33.40	33.71	33.60	33.68	33.54	33.68	33.66	33.47	33.55	33.49	33.46	33.49			
18		33.47	33.54	33.53	33.34	33.54	33.61	33.75	33.57	33.50	33.67	33.80	33.44			
19		33.44	33.74	33.57	33.53	33.73	33.55	33.73	33.54	33.64	33.64	33.66	33.54			
20		33.57	33.54	33.68	33.54	33.89	33.41	33.70	33.57	33.55	33.75	33.80	33.58			
21		33.51	33.49	33.70	33.47	33.46	33.50	33.66	33.47	33.44	33.75	33.77	33.69			
22		33.35	33.81	33.67	33.51	33.55	33.55	33.75	33.47	33.38	33.66	33.73	33.71			
23		33.34	33.66	33.62	33.47	33.62	33.53	33.74	33.58	33.46	33.51	33.60	33.62			
24		33.44	33.69	33.54	33.50	33.57	33.49	33.73	33.66	33.37	33.42	33.47	33.55			
25		33.34	33.54	33.62	33.44	33.55	33.46	33.80	33.67	33.51	33.62	33.42	33.50			
26		33.47	33.47	33.71	33.44	33.64	33.57	33.69	33.57	33.55	33.61	33.61	33.53			
27		33.39	33.44	33.70	33.57	33.57	33.68	33.67	33.64	33.55	33.69	33.60	33.41			
28		33.53	33.60	33.55	33.57	33.73	33.70	33.66	33.69	33.80	33.73	33.69	33.40			
29		33.55	33.57	33.51	33.57	33.50	33.66	33.60	33.57	33.67	33.68	33.60	33.33			
30		33.57		33.61	33.49	33.41	33.64	33.58	33.69	33.55	33.47	33.53	33.33			
31		33.51		33.55		33.69		33.71	33.57		33.50		33.26			
MEAN		33.49	33.60	33.58	33.50	33.60	33.61	33.63	33.60	33.58	33.57	33.52	33.51	33.56		
MAX.		33.62	33.81	33.73	33.69	33.89	33.77	33.80	33.74	33.80	33.75	33.80	33.71		33.89	
MIN.		33.34	33.44	33.37	33.21	33.41	33.41	33.44	33.46	33.37	33.30	33.30	33.26			33.21
RANGE		.28	.37	.36	.48	.48	.36	.36	.28	.43	.45	.50	.45			
STD.DEV.		.08	.09	.09	.11	.11	.09	.08	.07	.12	.12	.13	.11			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	13.39	12.28	13.61	12.78	16.89	18.28	19.61	17.22	19.00	19.00	16.15	15.22			
2		13.40	12.33	13.22	12.39	17.20	19.39	19.17	16.83	17.22	19.00	16.39	14.39			
3		13.45	12.39	14.05	12.17	16.95	19.00	19.10	16.28	19.50	18.56	16.00	14.39			
4		13.33	12.22	13.83	12.78	16.83	19.17	18.56	18.17	19.11	18.11	16.00	14.44			
5		12.00	12.45	13.95	12.61	17.33	19.11	18.95	18.78	18.00	18.00	16.28	14.11			
6		12.10	12.06	13.72	12.94	17.83	19.00	19.00	18.83	17.39	17.95	16.61	14.00			
7		12.00	12.00	14.00	13.39	17.95	18.28	18.95	19.83	17.50	18.00	16.90	14.22			
8		12.00	11.89	13.56	13.56	16.39	18.45	18.50	20.00	18.78	17.72	16.28	14.44			
9		12.10	12.00	14.00	13.50	16.80	19.00	19.17	19.78	20.00	15.95	15.72	14.83			
10		11.67	12.00	13.22	13.61	17.61	19.27	19.61	20.06	19.11	16.22	16.17	14.17			
11		11.61	12.28	13.83	13.72	17.17	19.22	19.00	20.00	19.61	17.22	15.78	13.22			
12		12.11	11.72	14.05	13.22	17.17	19.17	19.56	19.22	16.10	17.50	15.83	12.94			
13		11.72	11.67	12.56	14.39	17.11	20.00	18.83	19.00	18.39	17.95	16.11	12.72			
14		12.39	11.78	12.78	14.05	16.78	19.39	15.00	19.39	18.50	18.00	16.20	13.00			
15		11.50	12.06	12.33	14.11	15.78	19.00	16.78	19.83	18.50	17.95	16.61	12.78			
16		11.50	11.00	12.78	13.67	16.00	18.33	19.50	19.89	18.72	17.89	17.11	13.89			
17		12.00	12.06	13.17	14.39	16.11	18.89	19.00	19.61	19.00	17.78	16.33	13.83			
18		11.95	12.56	12.22	14.40	16.39	19.11	20.39	19.22	18.95	17.39	16.17	14.44			
19		11.78	12.61	12.22	14.17	16.51	19.00	20.84	19.39	18.83	13.00	16.11	14.40			
20		11.83	12.78	13.05	14.61	16.28	19.39	20.89	20.00	18.78	14.61	16.00	12.72			
21		11.67	12.45	13.39	15.28	16.78	18.33	20.44	19.39	18.61	15.50	16.70	13.00			
22		12.11	12.33	12.06	16.00	17.22	16.45	18.22	19.61	18.89	15.50	16.61	12.83			
23		12.28	12.45	11.56	15.67	18.00	19.33	21.00	19.56	18.95	15.78	16.00	13.11			
24		12.72	13.45	11.39	15.95	18.22	19.27	20.50	19.33	19.61	15.95	16.11	12.78			
25		11.05	13.11	11.83	16.00	18.11	19.78	20.00	19.78	19.22	15.83	16.06	14.00			
26		12.28	12.83	12.39	16.00	17.61	19.83	19.27	19.78	19.20	16.61	15.83	13.89			
27		12.67	13.00	13.22	15.95	17.56	20.00	19.11	19.11	19.11	16.39	15.78	13.61			
28		11.95	13.60	13.33	16.33	17.72	19.83	18.61	19.94	16.83	15.56	15.33	13.22			
29		11.61		12.22	16.45	17.72	19.45	17.45	19.78	16.89	15.95	14.83	14.17			
30		11.95		12.06	16.89	18.61	19.00	16.22	19.45	18.22	17.45	14.78	13.61			
31		12.00		12.22		18.40		16.28	19.45		15.95		14.28			
MEAN		12.13	12.31	12.96	14.37	17.19	19.05	18.95	19.24	18.62	16.91	16.12	13.76	15.97		
MAX.		13.45	13.45	14.05	16.89	18.61	20.00	21.00	20.06	20.00	19.00	17.11	15.22		21.00	
MIN.		11.05	11.00	11.39	12.17	15.78	16.45	15.00	16.28	16.10	13.00	14.78	12.72			11.00
RANGE		2.40	2.45	2.66	4.72	2.83	3.55	6.00	3.78	3.90	6.00	2.33	2.50			
STD.DEV.		.58	.54	.70	1.20	.71	.72	1.44	.94	.91	1.41	.60	.62			

SEA WATER SUMMARY: Salinities — STATION: Balboa, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	33.39	33.26	33.48	33.41	33.54	33.57	33.40	33.81	33.93	33.73	33.60	33.49			
2		33.40	33.44	33.41	33.54	33.53	33.58	33.58	33.66	33.86	33.75	33.55	33.66			
3		33.34	33.62	33.40	33.48	33.69	33.54	33.74	33.54	33.71	33.62	33.58	33.38			
4		33.50	33.53	33.51	33.69	33.69	33.69	33.77	33.50	33.68	33.68	33.51	33.47			
5		33.48	33.38	33.44	33.62	33.71	33.77	33.84	33.66	33.71	33.64	33.46	33.53			
6		33.37	33.44	33.57	33.67	33.80	33.69	33.77	33.60	33.55	33.75	33.58	33.60			
7		33.30	33.41	33.55	33.50	33.78	33.57	33.84	33.57	33.73	33.57	33.53	33.69			
8		33.28	33.19	33.49	33.41	33.69	33.68	33.74	33.61	33.71	33.58	33.60	33.70			
9		33.31	33.33	33.60	33.62	33.64	33.50	33.71	33.57	33.69	33.61	33.54	33.64			
10		33.49	33.30	33.57	33.78	33.57	33.57	33.82	33.68	33.78	33.64	33.53	33.58			
11		33.51	33.26	33.77	33.49	33.58	33.70	33.81	33.75	33.77	33.46	33.53	33.62			
12		33.53	33.26	33.73	33.53	33.57	33.60	33.84	33.84	33.84	33.67	33.64	33.53			
13		33.53	33.31	33.57	33.57	33.57	33.60	33.75	33.77	33.60	33.66	33.44	33.62			
14		33.58	33.35	33.57	33.57	33.60	33.73	33.71	33.75	33.71	33.64	33.57	33.55			
15		33.57	33.40	33.60	33.47	33.47	33.69	33.86	33.62	33.77	33.58	33.61	33.61			
16		33.39	33.21	33.53	33.35	33.70	33.57	33.60	33.64	33.82	33.64	33.55	33.44			
17		33.48	33.27	33.57	33.54	33.55	33.60	33.50	33.66	33.64	33.81	33.62	33.57			
18		33.48	33.27	33.68	33.58	33.74	33.60	33.78	33.62	33.70	33.77	33.62	33.46			
19		33.66	33.53	33.66	33.51	33.51	33.64	33.49	33.77	33.82	33.66	33.50	33.49			
20		33.39	33.53	33.77	33.54	33.50	33.78	33.67	33.61	33.55	33.57	33.55	33.54			
21		33.24	33.31	33.78	33.58	33.60	33.51	33.58	33.60	33.67	33.61	33.55	33.57			
22		33.13	33.40	33.70	33.66	33.54	33.47	33.64	33.64	33.61	33.61	33.61	33.57			
23		33.30	33.28	33.48	33.77	33.55	33.66	33.67	33.54	33.81	33.64	33.58	33.58			
24		33.42	33.28	33.57	33.61	33.60	33.53	33.60	33.51	33.66	33.67	33.35	33.54			
25		33.34	33.39	33.73	33.51	33.75	33.61	33.53	33.58	33.77	33.66	33.44	33.47			
26		33.32	33.55	33.57	33.53	33.73	33.60	33.61	33.74	33.77	33.73	33.39	33.38			
27		33.54	33.66	33.39	33.57	33.67	33.61	33.61	33.71	33.66	33.66	33.46	33.61			
28		33.33	33.50	33.34	33.44	33.41	33.75	33.67	33.71	33.57	33.66	33.53	33.49			
29		33.46		33.39	33.40	33.57	33.49	33.57	33.74	33.51	33.77	33.49	33.61			
30		33.28		33.53	33.42	33.66	33.46	33.62	33.62	33.75	33.62	33.41	33.64			
31		33.30		33.39		33.60		33.55	33.80		33.70		33.51			
MEAN		33.41	33.38	33.56	33.55	33.62	33.61	33.67	33.66	33.71	33.66	33.53	33.55	33.58		
MAX.		33.66	33.66	33.78	33.78	33.80	33.78	33.86	33.84	33.93	33.81	33.64	33.70		33.93	
MIN.		33.13	33.19	33.34	33.35	33.47	33.46	33.40	33.50	33.51	33.46	33.35	33.38			33.13
		.53	.47	.44	.43	.33	.32	.46	.34	.42	.35	.29	.32			
		.12	.12	.11	.11	.09	.08	.11	.09	.10	.07	.07	.08			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	13.61	10.22	13.50	12.61	15.22	15.33	18.06	18.33	19.61	18.67	16.00	15.83			
2		13.33	11.60	13.33	14.00	14.83	15.78	18.11	17.61	19.33	18.61	16.11	15.67			
3		13.00	12.40	12.94	14.00	14.00	14.39	18.39	17.83	19.11	18.67	15.11	15.78			
4		12.56	12.39	13.05	14.00	11.78	14.28	18.83	17.83	19.06	17.28	18.22	15.95			
5		12.61	12.22	13.11	14.72	11.50	15.00	17.89	17.00	19.11	18.61	18.39	15.67			
6		12.83	12.78	13.95	13.95	12.67	15.78	16.67	18.00	19.22	18.78	18.61	15.61			
7		12.61	13.22	13.67	14.00	12.78	15.78	18.39	17.22	19.00	19.00	16.06	15.28			
8		13.00	13.00	13.83	14.83	14.80	15.61	19.22	17.39	19.11	19.33	16.11	15.83			
9		13.00	12.89	13.61	14.22	12.61	15.22	18.89	17.28	18.00	19.11	16.39	15.56			
10		12.39	13.11	14.00	14.39	13.78	16.83	20.45	16.89	17.95	18.45	17.22	15.28			
11		12.89	13.22	13.95	14.50	14.22	16.61	19.00	16.50	18.22	18.39	16.72	15.56			
12		12.83	12.83	13.72	14.95	14.33	16.72	18.00	17.22	18.33	17.72	17.06	15.00			
13		12.33	13.65	13.95	15.61	14.50	17.39	18.50	17.72	18.33	17.95	16.89	15.50			
14		12.94	13.00	13.83	15.50	15.39	17.39	18.39	17.76	19.17	18.78	17.17	15.56			
15		12.72	13.17	13.89	15.17	14.95	17.00	18.78	17.61	19.27	18.50	16.72	15.72			
16		12.28	13.05	13.83	15.39	13.22	16.00	18.83	17.22	19.39	18.33	16.06	15.28			
17		12.89	13.11	13.78	16.33	13.61	16.89	19.35	17.56	18.78	16.72	16.22	15.00			
18		12.78	13.00	14.39	16.17	14.33	17.00	19.94	18.00	18.56	16.00	16.61	15.83			
19		12.72	13.00	14.44	16.28	14.39	17.33	19.83	17.89	18.33	16.06	16.95	15.56			
20		12.78	13.50	14.00	16.17	15.11	17.06	19.00	18.28	18.28	17.39	17.22	15.45			
21		12.83	12.95	14.39	16.11	14.83	17.22	18.61	18.05	18.17	17.22	16.83	15.39			
22		12.83	12.89	15.17	16.06	15.33	17.00	19.00	19.11	18.28	17.00	16.45	14.89			
23		13.00	13.00	15.61	15.72	14.95	17.00	19.22	18.89	18.28	17.11	16.67	14.56			
24		13.22	12.89	14.83	16.40	14.89	16.89	19.00	19.39	18.45	17.33	16.78	14.83			
25		11.00	12.78	14.00	15.40	14.95	16.61	19.61	19.39	18.61	16.95	16.67	15.17			
26		10.61	13.00	11.39	15.00	13.33	17.67	19.72	19.22	18.89	17.17	16.17	15.33			
27		11.22	13.40	13.78	14.39	13.00	17.39	17.83	19.72	19.39	17.83	15.95	15.00			
28		11.61	12.78	13.22	14.61	13.61	17.83	16.22	19.70	19.56	17.00	15.56	14.51			
29		12.45		13.17	15.39	14.72	17.83	17.72	19.39	19.67	16.00	15.56	14.83			
30		12.00		13.83	15.89	15.83	18.00	18.11	19.50	19.33	16.22	15.61	15.00			
31		12.39		14.00		15.50		18.20	19.45		16.56		14.39			
MEAN		12.56	12.82	13.81	15.06	14.16	16.56	18.64	18.16	18.83	17.70	16.60	15.32	15.85		
MAX.		13.61	13.65	14.83	16.40	15.83	18.10	20.45	19.72	19.67	19.33	18.61	15.95		20.45	
MIN.		10.61	10.22	11.39	12.61	11.50	14.28	16.22	16.50	17.95	16.00	15.11	14.39			10.22
RANGE		3.00	3.43	3.44	3.79	4.33	3.12	4.23	3.22	1.72	3.33	3.50	1.56			
STD.DEV.		.72	.74	.67	.84	1.09	.98	1.02	.82	.45	.87	.86	.39			

SEA WATER SUMMARY: SALINITIES — STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	33.69	33.48	33.57	33.64	33.61	33.64	33.74	33.62	33.66	33.57	33.51	33.55			
2		33.54	33.34	33.42	33.68	33.60	33.69	33.75	33.58	33.64	33.53	33.58	33.57			
3		33.53	33.44	33.40	33.69	33.62	33.61	33.57	33.68	33.51	33.40	33.42	33.57			
4		33.74	33.53	33.26	33.57	33.60	33.81	33.66	33.62	33.61	33.42	33.46	33.62			
5		33.57	33.62	33.46	33.67	33.55	33.78	33.75	38.69	33.60	33.60	33.46	33.53			
6		33.47	33.48	33.40	33.71	33.66	33.80	33.57	33.70	33.50	33.64	33.51	33.66			
7		33.46	33.58	33.37	33.51	33.50	33.61	33.66	33.62	33.77	33.69	33.53	33.58			
8		33.57	33.62	33.39	33.61	33.57	33.66	33.60	33.55	33.51	33.71	33.46	33.55			
9		33.62	33.30	33.41	33.68	33.48	33.64	33.68	33.69	33.51	33.57	33.61	33.66			
10		33.51	33.61	33.41	33.64	33.57	33.82	33.57	33.69	33.58	33.57	33.70	33.46			
11		33.57	33.70	33.62	33.64	33.62	33.80	33.66	33.57	33.57	33.58	33.54	33.54			
12		33.55	33.61	33.48	33.61	33.66	33.71	33.66	33.68	33.71	33.57	33.53	33.61			
13		33.57	33.48	33.47	33.50	33.62	33.81	33.64	33.67	33.66	33.57	33.69	33.58			
14		33.47	33.42	33.55	33.62	33.70	33.75	33.67	33.74	33.62	33.64	33.53	33.64			
15		33.53	33.42	33.68	33.55	33.71	33.62	33.70	33.70	33.50	33.53	33.42	33.67			
16		33.62	33.46	33.55	33.50	33.68	33.68	33.61	33.78	33.55	33.49	33.47	33.57			
17		33.66	33.22	33.57	33.47	33.69	33.78	33.68	33.67	33.62	33.50	33.35	33.57			
18		33.39	33.40	33.53	33.57	33.58	33.75	33.64	33.66	33.62	33.54	33.53	33.54			
19		33.54	33.53	33.62	33.66	33.67	33.70	33.71	33.68	33.69	33.66	33.53	33.55			
20		33.54	33.50	33.70	33.57	33.73	33.69	33.75	33.81	33.61	33.62	33.53	33.46			
21		33.51	33.33	33.60	33.69	33.73	33.81	33.61	33.71	33.66	33.61	33.64	33.38			
22		33.61	33.42	33.57	33.74	33.69	33.62	33.53	33.67	33.66	33.46	33.57	33.49			
23		33.44	33.54	33.55	33.77	33.68	33.73	33.62	33.55	33.64	33.54	33.49	33.41			
24		33.40	33.62	33.47	33.74	33.60	33.68	33.60	33.64	33.71	33.53	33.66	33.42			
25		33.48	33.33	33.51	33.78	33.67	33.57	33.74	33.74	33.64	33.47	33.61	33.51			
26		33.57	33.48	33.66	33.78	33.64	33.53	33.64	33.66	33.64	33.54	33.60	33.40			
27		33.60	33.55	33.51	33.73	33.69	33.74	33.62	33.58	33.58	33.60	33.54	33.41			
28		33.55	33.57	33.46	33.71	33.68	33.74	33.74	33.48	33.78	33.67	33.54	33.35			
29		33.48		33.51	33.75	33.68	33.67	33.58	33.39	33.68	33.57	33.66	33.50			
30		33.39		33.51	33.73	33.58	33.68	33.67	33.50	33.54	33.57	33.53	33.54			
31		33.39		33.75		33.57		33.67	33.49		33.61		33.48			
MEAN		33.53	33.49	33.51	33.65	33.63	33.70	33.65	33.64	33.62	33.56	33.54	33.53	33.59		
MAX.		33.74	33.70	33.75	33.78	33.79	33.82	33.75	33.81	33.78	33.71	33.70	33.67		33.82	
MIN.		33.39	33.22	33.26	33.47	33.48	33.53	33.51	33.39	33.50	33.40	33.35	33.35			33.22
RANGE		.35	.48	.49	.31	.25	.29	.24	.42	.28	.31	.35	.32			
STD.DEV.		.09	.11	.11	.08	.07	.07	.06	.10	.08	.08	.08	.08			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	12.39	13.11	13.22	15.89	11.67	16.67	16.95	18.28	17.50	16.56	17.78	16.11			
2		10.89	13.11	13.28	15.72	13.05	16.72	17.45	18.78	17.11	15.61	17.50	15.95			
3		13.50	12.83	11.00	15.83	12.22	16.28	17.67	18.50	16.33	16.83	17.39	16.06			
4		13.78	13.33	10.83	15.83	12.39	17.22	17.22	18.89	16.50	17.45	17.45	16.00			
5		13.95	14.14	11.50	15.67	12.22	17.61	16.72	17.78	15.56	18.00	17.22	16.72			
6		13.72	13.89	12.39	15.28	13.11	17.33	16.50	17.22	16.22	18.17	16.83	14.56			
7		13.39	13.78	12.00	15.00	14.17	18.06	16.61	16.67	16.67	18.06	16.95	13.72			
8		13.78	13.61	12.06	15.45	14.67	18.06	18.00	17.11	17.06	18.17	17.17	13.45			
9		13.89	13.45	12.50	15.45	14.50	18.22	18.72	18.50	16.50	18.33	17.22	12.89			
10		13.95	13.67	13.22	15.50	15.28	17.95	19.39	18.17	15.61	18.22	17.06	13.67			
11		13.67	13.45	12.56	15.56	15.39	18.33	19.83	17.22	16.39	17.61	17.56	13.89			
12		12.28	13.50	12.11	14.56	15.33	18.33	18.33	17.22	17.22	18.22	17.06	13.95			
13		11.78	13.33	12.22	14.56	15.45	17.83	18.06	17.95	16.17	18.28	16.89	13.83			
14		12.50	13.33	14.28	14.61	16.06	18.06	18.33	18.00	14.72	18.06	16.83	13.78			
15		12.89	13.56	13.17	15.00	16.17	17.72	19.00	18.78	15.56	18.17	17.11	13.72			
16		12.78	13.33	13.83	15.05	16.11	16.95	19.45	18.28	16.17	18.28	17.39	13.89			
17		12.61	13.39	13.45	15.00	15.83	17.22	19.17	19.17	16.22	18.33	16.22	14.00			
18		13.00	13.45	13.39	14.61	15.39	17.78	20.28	18.56	16.39	18.28	16.56	14.17			
19		13.33	13.39	13.45	15.22	14.83	17.45	19.78	18.67	17.45	18.11	16.61	13.39			
20		12.78	13.50	13.61	14.44	15.56	17.78	18.72	16.95	17.83	18.17	16.11	12.83			
21		12.61	13.45	13.89	16.11	15.95	16.95	19.00	16.61	18.22	18.33	16.67	13.61			
22		13.05	13.33	13.89	12.78	16.11	15.89	19.89	16.39	19.11	18.22	16.50	14.05			
23		12.94	13.28	13.95	14.83	16.06	16.22	19.89	16.67	19.17	18.11	16.50	13.78			
24		13.05	13.50	13.72	15.83	15.56	15.61	20.50	16.67	18.95	18.06	16.39	13.89			
25		13.28	13.45	14.00	15.56	16.11	15.56	19.00	17.78	18.33	17.83	16.28	14.11			
26		13.33	13.50	14.17	15.33	16.83	15.61	20.17	17.83	17.22	17.11	16.39	14.11			
27		13.61	13.33	14.33	15.45	16.78	16.17	19.67	17.56	17.22	17.39	16.50	14.05			
28		13.39	13.45	14.95	15.61	16.06	15.56	20.61	17.67	16.28	17.50	16.11	14.05			
29		13.17		15.39	14.72	14.89	16.67	20.17	18.00	15.00	17.89	16.17	14.17			
30		12.61		15.33	11.44	15.28	16.93	20.11	18.22	15.39	18.28	16.17	14.33			
31		12.78		15.50		16.45		18.28	17.95		18.22		13.17			
MEAN		13.05	13.44	13.33	15.06	15.02	17.08	18.85	17.84	16.80	17.87	16.82	14.16	15.78		
MAX.		13.95	14.14	15.50	16.11	16.83	18.33	20.61	19.17	19.17	18.33	17.78	16.11		20.61	
MIN.		10.89	12.83	10.83	11.44	11.67	15.56	16.50	16.39	14.72	15.61	16.11	12.83			10.83
RANGE		3.06	1.31	4.67	4.67	5.16	2.77	4.11	2.78	4.45	2.72	1.67	3.28			
STD.DEV.		.71	.29	1.23	1.06	1.32	.76	1.08	.68	1.17	.61	.43	.87			

SEA WATER SUMMARY: SALINITIES — STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	33.35	33.57	33.31	33.42	33.61	33.51	33.61	33.62	33.66	33.67	33.62	32.44			
2		33.42	33.57	33.44	33.53	33.55	33.64	33.60	33.70	33.62	33.66	33.64	33.67			
3		33.42	33.50	33.30	33.55	33.55	33.75	33.66	33.53	33.69	33.57	33.58	33.42			
4		33.38	33.70	33.57	33.54	33.62	33.60	33.61	33.68	33.62	33.69	33.66	33.53			
5		33.44	33.57	33.24	33.51	33.55	33.69	33.57	33.66	33.68	33.75	33.40	33.54			
6		33.54	33.50	33.44	33.55	33.51	33.75	33.67	33.60	33.75	33.74	33.57	33.58			
7		33.55	33.48	33.50	33.67	33.64	33.58	33.70	33.69	33.73	33.78	33.51	33.55			
8		33.51	33.53	33.57	33.64	33.64	33.58	33.61	33.74	33.70	33.75	33.64	33.53			
9		33.48		33.49	33.62	33.64	33.57	33.69	33.75	33.60	33.73	33.61	33.44			
10		33.53	33.62	33.40	33.57	33.73	33.69	33.74	33.69	33.70	33.69	33.61	33.31			
11		33.38	33.39	33.54	33.37	33.60	33.61	33.66	33.60	33.80	33.60	33.60	33.30			
12		33.46	33.47	33.49	33.61	33.78	33.67	33.75	33.66	33.71	33.69	33.66	33.28			
13		33.49		33.46	33.69	33.75	33.67	33.74	33.61	33.58	33.55	33.53	33.33			
14		33.49		33.44	33.75	33.61	33.53	33.66	33.66	33.67	33.61	33.62	33.30			
15		33.38		33.49	33.77	33.60	33.54	33.70	33.71	33.74	33.67	33.73	33.51			
16		33.40		33.53	33.62	33.73	33.69	33.71	33.66	33.78	33.55	33.71	33.41			
17		33.37		33.48	33.44	33.54	33.78	33.81	33.70	33.55	33.75	33.51	33.47			
18		33.44		33.40	33.54	33.74	33.64	33.61	33.77	33.70	33.71	33.58	33.30			
19		33.46		33.46	33.66	33.66	33.57	33.57	33.71	33.70	33.66	33.67	33.28			
20		33.38	33.57	33.55	33.61	33.57	33.70	33.58	33.66	33.80	33.51	33.71	33.26			
21		33.44	33.42	33.68	33.67	33.57	33.70	33.60	33.68	33.80	33.54	33.60	33.41			
22		33.41		33.54	33.62	33.71	33.68	33.48	33.64	33.74	33.57	33.47	33.48			
23		33.47	33.55	33.42	33.64	33.64		33.47	33.66	33.60	33.57	33.58	33.47			
24		33.40	33.53	33.44	33.73	33.67	33.51	33.67	33.57	33.69	33.54	33.54	33.39			
25		33.37	33.57	33.37	33.71	33.61	33.64	33.67	33.61	33.77	33.60	33.51	33.34			
26		33.55	33.40	33.38	33.47	33.67	33.64		33.70	33.64	33.60	33.69	33.33			
27		33.55	33.34	33.44	33.47	33.57	33.67	33.58		33.74	33.60	33.48	33.34			
28		33.53	33.47	33.35	33.54	33.66	33.60	33.66	33.55	33.60	33.39	33.54	33.40			
29		33.69		33.47	33.57	33.64	33.70	33.66	33.62	33.61	33.53	33.62	33.42			
30		33.57		33.49	33.67	33.57	33.60	33.60	33.69	33.53	33.62	33.73	33.38			
31		33.61		33.40		33.53		33.61	33.61		33.55		33.38			
MEAN		33.47	33.51	33.45	33.59	33.62	33.64	33.64	33.66	33.68	33.63	33.60	33.41	33.58		
MAX.		33.69	33.70	33.68	33.77	33.78	33.78	33.81	33.77	33.80	33.78	33.73	33.67		33.81	
		33.35	33.34	33.24	33.37	33.51	33.51	33.47	33.53	33.53	33.39	33.40	33.26			33.24
		.34	.36	.44	.40	.27	.27	.34	.24	.27	.39	.33	.41			
		.08	.09	.10	.10	.07	.07	.08	.06	.07	.08	.08	.10			

SEA WATER SUMMARY: TEMPERATURES — STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	13.05	13.50	13.61	13.89	15.28	18.06	15.78	20.00	18.22	17.22	14.72	15.22			
2		12.89	13.61	12.06	14.11	15.95	17.45	16.67	18.45	18.89	17.17	14.89	15.00			
3		12.89	13.33	12.22	14.05	14.05	17.17	15.45	17.22	18.61	17.22	14.95	14.89			
4		13.56	13.39	12.67	14.22	14.78	16.06	14.17	16.22	17.11	16.95	15.72	15.05			
5		13.33	13.33	12.67	14.33	14.56	15.67	14.44	16.22	16.67	17.28	15.89	15.00			
6		13.33	13.78	12.78	14.83	14.39	15.56	13.72	16.89	15.89	16.73	15.95	14.83			
7		13.17	13.78	12.89	14.44	15.67	15.00	16.11	17.45	15.67	16.17	16.78	14.95			
8		12.83	14.17	12.89	14.17	14.11	15.28	15.00	18.00	15.00	16.11	17.11	15.05			
9		12.61	13.89	13.00	15.61	15.00	15.22	13.18	18.45	14.61	16.22	16.89	14.95			
10		12.78	13.83	13.78	15.56	15.50	15.17	13.17	18.56	15.56	16.11	15.56	14.83			
11		12.83	13.67	13.33	14.33	15.45	16.00	13.89	16.67	15.00	15.50	14.17	14.67			
12		13.33	13.50	13.00	14.61	15.22	15.56	13.83	18.00	15.72	15.56	15.78	14.72			
13		14.00	13.78	13.17	15.00	14.89	15.50	15.17	17.28	15.33	15.83	15.67	14.89			
14		13.67	13.89	12.78	15.39	15.83	15.61	16.28	18.56	16.11	15.45	16.67	14.72			
15		13.33	13.61	12.67	14.83	15.72	15.89	16.11	18.95	16.11	15.67	15.28	14.78			
16		13.00	13.89	12.50	15.00	16.17	16.72	16.11	18.83	14.72	16.06	15.00	14.95			
17		13.17	14.56	12.56	15.56	16.22	17.22	16.78	17.78	13.83	16.45	15.05	14.44			
18		13.33	14.17	12.83	15.45	16.67	17.50	17.00	18.78	13.17	17.22	15.17	14.72			
19		13.33	12.89	12.94	15.56	16.83	16.61	16.95	19.27	13.33	15.61	15.00	14.50			
20		13.39	12.83	12.78	14.61	17.06	17.17	16.67	20.00	15.56	16.28	14.89	14.82			
21		13.17	12.78	12.45	15.28	16.95	17.28	16.11	20.00	17.00	16.11	15.00	13.89			
22		13.05	12.56	12.67	15.33	16.83	17.28	15.89	19.33	17.22	15.83	15.39	13.95			
23		13.00	12.89	12.78	14.61	16.95	17.83	17.06	19.27	17.72	15.61	15.28	13.95			
24		13.05	12.94	13.00	14.72	16.67	17.83	16.28	19.61	17.06	15.50	14.61	13.89			
25		13.11	12.83	12.72	15.22	16.61	17.89	16.11	19.39	17.11	15.56	14.89	13.95			
26		13.05	12.78	12.89	14.83	16.12	18.17	18.33	19.17	17.22	15.56	15.00	13.61			
27		13.05	12.61	13.33	15.72	16.95	18.22	18.28	18.61	17.22	15.39	15.00	13.89			
28		13.83	12.78	13.05	15.50	17.22	17.78	19.27	19.33	16.67	15.00	14.89	14.17			
29		13.11	13.39	13.22	15.00	16.95	17.45	19.33	17.11	17.50	14.33	14.72	13.83			
30		13.45		14.00	15.05	17.45	14.89	20.28	18.33	16.50	14.17	14.89	13.61			
31		13.80		14.05		17.56		20.33	18.22		14.50		13.33			
MEAN		13.21	13.41	12.94	14.89	15.99	16.64	16.25	18.39	16.21	15.95	15.36	14.49	15.31		
MAX.		14.00	14.56	14.05	15.72	17.56	18.22	20.33	20.00	18.89	17.28	17.11	15.22		20.33	
MIN.		12.61	12.56	12.06	13.89	14.05	14.89	13.17	16.22	13.17	14.17	14.17	13.33			12.06
RANGE		1.39	2.00	1.99	1.83	3.51	3.33	7.16	3.78	5.72	3.11	2.94	1.89			
STD.DEV.		.33	.49	.51	.46	.93	.89	1.93	1.02	1.50	.81	.71	.45			

SEA WATER SUMMARY: SALINITIES

STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	33.27	33.42	33.22	33.39	33.47	33.67	33.60	33.64	33.69	33.57	33.64	33.42			
2		33.46	33.34	33.28	33.46	33.50	33.48	33.62	33.70	33.68	33.66	33.64	33.28			
3		33.38	33.38	33.40	33.28	33.68	33.62	33.73	33.62	33.74	33.50	33.55	33.37			
4		33.39	33.33	33.40	33.34	33.48	33.48	33.66	33.57	33.60	33.55	33.55	33.39			
5		33.38	33.26	33.46	33.49	33.54	33.55	33.75	33.68	33.69	33.57	33.50	33.53			
6		33.28	33.33	33.46	33.48	33.64	33.50	33.67	33.69	33.78	33.54	33.55	33.49			
7		33.27	33.28	33.18	33.46	33.60	33.68	33.73	33.68	33.71	33.55	33.57	33.40			
8		33.31	33.39	33.24	33.49	33.62	33.60	33.70	33.67	33.69	33.67	33.61	33.48			
9		33.35	33.51	33.21	33.48	33.61	33.61	33.57	33.67	33.77	33.67	33.49	33.54			
10		33.17	33.42	33.41	33.30	33.55	33.49	33.66	33.61	33.75	33.51	33.60	33.53			
11		33.27	33.37	33.33	33.15	33.64	33.62	33.69	33.67	33.58	33.60	33.48	33.48			
12		33.21	33.38	33.39	33.30	33.54	33.66	33.62	33.67	33.73	33.68	33.46	33.54			
13		33.19	33.28	33.37	33.40	33.61	33.71	33.75	33.68	33.74	33.69	33.57	33.58			
14		33.39	33.38	33.39	33.41	33.57	33.73	33.66	33.75	33.78	33.58	33.35	33.44			
15		33.30	33.27	33.13	33.46	33.60	33.74	33.73	33.75	33.70	33.53	33.51	33.33			
16		33.33	33.41	33.02	33.48	33.66	33.60	33.71	33.71	33.66	33.70	33.61	33.57			
17		33.38	33.39	33.26	33.40	33.61	33.64	33.74	33.77	33.62	33.67	33.57	33.54			
18		33.30	33.39	33.18	33.60	33.54	33.71	33.54	33.60	33.69	33.60	33.49	33.50			
19		33.30	33.34	33.34	33.41	33.67	33.60	33.61	33.66	33.71	33.50	33.50	33.46			
20		33.26	33.31	33.35	33.46	33.64	33.62	33.68	33.75	33.69	33.57	33.47	33.48			
21		33.30	33.39	33.26	33.40	33.62	33.69	33.61	33.66	33.73	33.53	33.46	33.44			
22		33.44	33.48	33.40	33.50	33.64	33.64	33.66	33.61	33.78	33.66	33.50	33.44			
23		33.28	33.40	33.34	33.64	33.54	33.62	33.61	33.67	33.81	33.60	33.49	33.51			
24		33.35	33.40	33.34	33.51	33.62	33.64	33.64	33.68	33.67	33.61	33.54	33.40			
25		33.31	33.48	33.48	33.57	33.62	33.71	33.71	33.69	33.68	33.47	33.42	33.55			
26		33.42	33.34	33.51	33.57	33.58	33.66	33.70	33.75	33.77	33.51	33.55	33.50			
27		33.08	33.31	33.48	33.47	33.51	33.66	33.81	33.61	33.69	33.49	33.47	33.37			
28		33.21	33.28	33.31	33.50	33.69	33.62	33.78	33.74	33.64	33.50	33.49	33.41			
29		33.28	33.30	33.31	33.51	33.66	33.61	33.77	33.77	33.61	33.66	33.51	33.31			
30		33.30		33.44	33.49	33.55	33.54	33.78	33.69	33.57	33.54	33.39	33.41			
31		33.47		33.40		33.62		33.71	33.74		33.55		33.44			
MEAN		33.31	33.36	33.33	33.45	33.59	33.62	33.68	33.68	33.70	33.58	33.52	33.46	33.52		
MAX.		33.47	33.51	33.51	33.64	33.69	33.74	33.81	33.77	33.81	33.70	33.64	33.58		33.81	
MIN.		33.08	33.26	33.02	33.15	33.41	33.48	33.54	33.57	33.57	33.47	33.35	33.28			33.02
RANGE		.39	.25	.49	.49	.22	.26	.27	.20	.24	.23	.29	.30			
STD.DEV.		.09	.06	.11	.11	.06	.07	.06	.05	.06	.06	.07	.08			

SEA WATER SUMMARY: TEMPERATURES — STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	13.22	13.78	11.63	12.39	13.22	12.40	18.50	20.50	17.78	16.89	17.45	14.33			
2		13.45	13.89	10.39	12.78	13.78	13.50	16.67	19.72	18.45	16.95	17.11	14.61			
3		13.61	13.89	12.33	13.33	14.44	14.17	15.95	19.27	18.56	16.83	16.83	14.89			
4		13.78	13.50	12.22	12.61	15.00	14.78	17.22	19.00	18.33	17.11	17.00	15.50			
5		13.72	13.56	12.78	13.22	13.50	14.95	17.50	18.72	17.83	16.61	17.00	14.05			
6		13.89	14.11	13.06	13.61	14.72	15.45	17.95	18.72	17.72	18.06	17.28	14.00			
7		14.17	14.17	12.78	13.50	15.00	15.95	19.45	18.67	18.00	18.06	16.56	13.72			
8		14.50	13.89	13.33	13.61	15.72	16.00	20.22	19.00	16.56	17.11	16.83	14.22			
9		14.44	13.83	13.11	12.22	13.17	16.11	19.89	19.33	15.11	16.95	16.50	14.50			
10		14.28	13.77	12.67	12.94	12.89	16.22	18.95	19.50	15.50	17.06	16.00	14.22			
11		14.44	13.22	13.05	13.33	13.33	15.78	20.11	18.50	16.28	16.28	15.89	14.50			
12		14.56	13.33	12.78	13.39	12.94	15.83	21.22	17.78	16.45	17.00	15.67	14.61			
13		14.61	13.67	12.28	13.89	11.61	15.33	21.22	18.72	17.00	17.89	15.45	14.72			
14		14.05	13.22	12.39	13.89	12.00	16.28	22.56	18.45	17.00	18.83	16.22	15.39			
15		13.56	13.78	12.61	14.17	11.72	16.67	22.33	18.22	16.50	18.45	17.67	15.45			
16		13.22	13.67	13.05	13.89	11.39	16.33	22.50	18.61	16.22	17.78	17.00	15.56			
17		13.28	13.61	13.45	14.28	12.00	16.45	22.89	18.39	16.50	18.28	16.72	15.22			
18		13.50	13.50	13.33	14.50	11.28	16.89	20.06	18.28	16.45	18.33	14.22	15.05			
19		13.56	12.39	13.33	14.44	12.72	17.17	16.17	18.00	15.95	17.00	16.28	15.11			
20		13.33	11.28	13.39	14.44	13.00	16.78	17.89	18.72	14.61	17.22	15.50	14.95			
21		13.39	11.44	13.33	14.33	15.28	17.17	18.45	19.11	14.00	17.56	12.39	14.67			
22		13.45	11.95	13.22	14.44	15.67	17.72	19.27	19.33	14.50	18.89	14.50	14.00			
23		13.89	11.44	13.22	15.00	16.11	17.89	17.39	19.39	14.33	18.67	15.00	14.22			
24		13.56	11.16	13.33	14.44	15.11	18.50	16.50	19.06	14.89	18.39	14.78	14.61			
25		13.89	11.67	13.50	14.17	15.10	18.83	17.61	18.61	15.00	17.89	15.00	14.56			
26		13.78	11.72	13.33	13.78	16.50	19.39	18.39	17.89	15.22	17.83	15.56	14.44			
27		13.72	12.33	13.05	13.89	13.89	20.00	18.72	17.22	16.22	17.89	16.00	14.50			
28		12.78	12.56	13.17	13.89	14.39	19.61	19.00	17.72	16.33	18.06	15.00	14.00			
29		13.22		13.56	14.05	14.50	18.95	19.22	17.39	16.50	18.11	14.61	14.22			
30		13.39		12.67	14.05	13.89	18.72	20.00	17.56	17.00	18.00	14.39	14.05			
31		13.78		12.22		14.62		20.39	17.33		17.89		14.33			
MEAN		13.74	13.01	12.86	13.75	13.79	16.66	19.17	18.60	16.36	17.67	15.88	14.59	15.51		
MAX.		14.61	14.17	13.56	15.00	16.11	20.00	22.89	20.50	18.56	18.89	17.67	15.56		22.89	
MIN.		12.78	11.16	10.39	12.22	11.28	12.40	15.95	17.22	14.00	16.28	12.39	13.72			10.39
RANGE		1.83	3.01	3.17	2.78	4.83	7.60	6.94	3.28	4.56	2.61	5.28	1.84			
STD.DEV.		.43	.81	.68	.67	1.24	1.87	1.81	.77	1.18	.65	1.16	.45			

SEA WATER SUMMARY: SALINITIES — STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	33.38	33.41	33.49	33.46	33.47	33.50	33.61	33.66	33.53	33.70	33.62	33.46			
2		33.38	33.46	33.57	33.44	33.47	33.54	33.71	33.67	33.54	33.50	33.57	33.42			
3		33.46	33.48	33.48	33.33	33.61	33.57	33.77	33.73	33.58	33.57	33.60	33.55			
4		33.42	33.55	33.51	33.39	33.64	33.57	33.66	33.55	33.70	33.51	33.51	33.62			
5		33.49	33.47	33.47	33.46	33.67	33.62	33.68	33.55	33.66	33.57	33.77	33.53			
6		33.37	33.41	33.47	33.47	33.64	33.64	33.58	33.69	33.61	33.57	33.60	33.47			
7		33.28	33.51	33.46	33.49	33.64	33.66	33.60	33.73	33.58	33.50	33.62	33.48			
8		33.40	33.48	33.48	33.50	33.62	33.71	33.64	33.71	33.51	33.48	33.57	33.55			
9		33.44	33.40	33.42	33.57	33.53	33.70	33.73	33.61	33.57	33.55	33.55	33.51			
10		33.44	33.48	33.34	33.55	33.56	33.68	33.78	33.69	33.61	33.49	33.60	33.46			
11		33.47	33.46	33.38	33.46	33.67	33.66	33.70	33.62	33.68	33.58	33.68	33.37			
12		33.46	33.50	33.42	33.48	33.62	33.62	33.74	33.54	33.64	33.67	33.50	33.46			
13		33.40	33.55	33.37	33.60	33.61	33.57	33.64	33.66	33.58	33.62	33.64	33.51			
14		33.30	33.49	33.35	33.57	33.61	33.57	33.62	33.54	33.64	33.64	33.53	33.42			
15		33.42	33.51	33.46	33.48	33.60	33.60	33.69	33.62	33.55	33.66	33.46	33.46			
16		33.40	33.55	33.44	33.49	33.69	33.62	33.71	33.67	33.62	33.67	33.50	33.41			
17		33.44	33.37	33.60	33.55	33.71	33.74	33.60	33.67	33.57	33.68	33.41	33.57			
18		33.54	33.41	33.46	33.60	33.71	33.61	33.66	33.55	33.57	33.50	33.46	33.49			
19		33.53	33.47	33.44	33.60	33.61	33.57	33.68	33.77	33.70	33.57	33.55	33.46			
20		33.48	33.54	33.42	33.58	33.60	33.61	33.53	33.64	33.69	33.61	33.57	33.50			
21		33.57	33.46	33.40	33.57	33.58	33.69	33.57	33.71	33.64	33.61	33.57	33.40			
22		33.44	33.51	33.41	33.57	33.70	33.67	33.60	33.71	33.62	33.71	33.57	33.48			
23		33.48	33.54	33.44	33.58	33.68	33.60	33.64	33.68	33.60	33.62	33.49	33.46			
24		33.42	33.47	33.49	33.61	33.60	33.64	33.57	33.75	33.55	33.62	33.60	33.42			
25		33.46	33.60	33.39	33.60	33.68	33.77	33.66	33.69	33.51	33.67	33.61	33.40			
26		33.38	33.44	33.39	33.67	33.64	33.57	33.74	33.74	33.46	33.62	33.60	33.30			
27		33.38	33.49	33.40	33.57	33.66	33.54	33.68	33.60	33.57	33.71	33.58	33.38			
28		33.34	33.46	33.28	33.67	33.66	33.58	33.67	33.62	33.49	33.70	33.57	33.46			
29		33.41		33.30	33.60	33.62	33.67	33.57	33.68	33.58	33.64	33.60	33.44			
30		33.37		33.39	33.55	33.62	33.64	33.68	33.58	33.68	33.74	33.55	33.39			
31		33.40		33.28		33.62		33.73	33.48		33.55		33.37			
MEAN		33.42	33.48	33.42	33.54	33.62	33.62	33.66	33.65	33.59	33.61	33.57	33.46	33.55		
MAX.		33.57	33.60	33.57	33.67	33.71	33.77	33.78	33.77	33.70	33.74	33.77	33.62		33.78	
MIN.		33.28	33.37	33.28	33.33	33.47	33.50	33.53	33.48	33.46	33.48	33.41	33.30			33.28
RANGE		.29	.23	.29	.34	.24	.27	.25	.29	.24	.26	.36	.32			
STD.DEV.		.07	.06	.07	.08	.06	.06	.06	.07	.06	.06	.09	.08			

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Balboa, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	14.61	14.50	14.56	14.78	14.39	16.22	16.95	18.95	18.22	14.00	13.33	13.50			
2		14.61	14.22	14.50	14.50	14.50	15.72	17.56	18.83	18.78	15.22	13.00	13.00			
3		14.33	14.61	15.33	15.05	13.72	16.17	16.56	19.39	18.50	13.50	13.50	13.33			
4		14.11	14.50	15.11	15.05	14.22	16.00	16.95	20.00	18.89	14.00	13.50	13.39			
5		14.00	14.50	14.89	14.44	15.67	16.11	17.00	19.50	12.56	14.33	12.50	12.94			
6		14.39	14.28	15.05	15.00	15.83	16.00	14.00	18.61	18.22	15.00	13.00	12.50			
7		14.28	14.44	14.61	15.72	15.67	15.50	12.00	18.00	17.50	14.56	12.94	12.78			
8		14.28	14.50	14.67	15.83	15.45	16.22	16.28	17.45	17.50	14.05	13.00	12.56			
9		13.89	14.50	14.89	15.67	15.28	15.00	17.72	17.11	18.00	13.89	12.28	12.61			
10		13.72	14.61	14.44	15.78	15.45	14.44	18.50	16.89	18.06	13.95	12.56	12.45			
11		13.72	14.33	13.56	15.72	16.00	14.50	19.27	16.45	18.83	13.50	13.50	11.83			
12		13.78	14.39	11.61	15.33	15.95	14.95	18.28	16.00	17.56	14.17	14.00	11.00			
13		13.72	14.50	12.72	15.95	14.00	14.50	19.50	16.61	17.00	13.61	13.50	11.50			
14		13.72	14.39	13.11	15.61	14.00	14.44	19.00	15.95	15.89	13.78	13.50	11.56			
15		13.95	14.22	12.78	16.17	13.56	14.72	18.72	15.61	16.83	13.50	13.61	12.33			
16		13.83	14.28	13.50	15.05	13.50	15.22	18.50	15.50	18.61	13.45	14.22	12.11			
17		14.17	14.17	13.22	15.50	13.22	15.50	19.39	17.22	16.00	13.33	13.72	12.00			
18		14.22	14.39	13.22	14.61	13.50	15.33	19.72	17.61	15.17	13.50	13.50	14.22			
19		14.44	14.44	13.45	15.11	14.22	15.95	19.50	18.00	14.39	13.00	13.50	14.78			
20		13.89	14.28	13.22	15.00	14.00	16.22	18.95	18.06	13.00	13.22	13.56	14.78			
21		14.33	14.05	13.00	15.17	14.56	15.17	19.67	17.45	12.45	13.61	13.45	14.61			
22		13.95	14.11	13.39	15.05	15.05	16.00	19.50	18.00	12.56	13.72	13.50	14.56			
23		14.22	14.50	13.33	14.95	15.00	16.06	20.00	17.78	14.33	13.72	14.00	14.39			
24		14.39	14.50	13.33	14.61	15.00	16.50	19.22	17.22	14.78	14.89	13.78	14.72			
25		14.00	15.00	13.50	15.22	14.44	16.22	17.00	16.28	14.95	14.95	13.83	14.72			
26		13.33	14.39	13.89	15.50	15.56	16.67	15.61	16.72	14.22	14.22	13.78	14.00			
27		13.45	14.78	13.72	15.45	15.56	16.45	17.28	16.61	15.05	14.05	14.05	13.78			
28		13.89	14.50	13.33	15.56	15.72	16.61	16.56	17.22	15.00	13.78	13.83	13.67			
29		14.17		13.89	15.05	15.56	16.67	18.11	16.50	15.50	13.78	13.50	13.50			
30		14.11		14.44	14.78	15.45	17.00	19.00	14.89	15.22	13.45	13.45	14.00			
31		14.00		14.83		16.00		18.95	15.00		13.39		13.95			
MEAN		14.05	14.42	13.84	15.24	14.84	15.74	17.91	17.27	16.29	13.91	13.45	13.26	15.02		
MAX.		14.61	15.00	15.33	16.17	16.00	17.00	20.00	20.00	18.89	15.22	14.22	14.78		20.00	
MIN.		13.33	14.05	11.61	14.44	13.22	14.44	12.00	14.89	12.45	13.00	12.28	11.00			11.00
RANGE		1.28	.95	3.72	1.73	2.78	2.56	8.00	5.11	6.44	2.22	1.94	3.78			
STD.DEV.		.33	.23	.83	.43	.72	.65	1.86	1.30	1.79	.54	.48	.96			

SEA WATER SUMMARY: *Salinities* STATION: *Balboa, Calif.*
Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE	JULY.	AUG.	SEPT	OCT	NOV	DEC	MEAN	MAX.	MIN.
1	1954	33.41	33.47	33.39	33.30	33.54	33.67	33.66	33.67		33.71	33.58	33.57			
2		33.46	33.49	33.46	33.46	33.51	33.62	33.68	33.54	33.70	33.67	33.61	33.55			
3		33.41	33.49	33.50	33.51	33.64	33.62	33.64	33.68	33.62	33.68	33.69	33.51			
4		33.39	33.50	33.53	33.34	33.60	33.64	33.64	33.70	33.64	33.68	33.60	33.62			
5		33.42	33.48	33.54	33.34	33.48	33.60	33.71	33.70		33.57	33.58	33.60			
6		33.48	33.40	33.46	33.39	33.57	33.66	33.71	33.77	33.68	33.66	33.60	33.48			
7		33.44	33.46	33.49	33.50	33.64	33.58	33.68	33.78	33.60	33.64	33.66	33.51			
8		33.46	33.49	33.46	33.48	33.60	33.62	33.75	33.84		33.64	33.61	33.54			
9		33.42	33.46	33.34	33.39	33.61	33.70	33.73	33.74	33.64	33.66	33.61	33.48			
10		33.50	33.44	33.21	33.44	33.70	33.73	33.80	33.74		33.61	33.57	33.42			
11		33.48	33.53	33.44	33.41	33.64	33.64	33.77	33.54	33.61	33.68	33.49	33.48			
12		33.53	33.55	33.42	33.40	33.58	33.67	33.75	33.66	33.70	33.71	33.46	33.50			
13		33.53	33.42	33.40	33.49	33.64	33.66	33.75	33.67	33.66	33.68	33.57	33.40			
14		33.57	33.33	33.31	33.55	33.62	33.64	33.68	33.68	33.73		33.62	33.48			
15		33.57	33.44	33.33	33.57	33.66	33.60	33.75	33.75	33.64		33.58	33.50			
16		33.58	33.42	33.38	33.54	33.75	33.60	33.68	33.77	33.68	33.57	33.55	33.53			
17		33.40	33.41	33.47	33.57	33.69	33.60	33.64	33.70	33.73	33.69	33.51	33.57			
18		33.27	33.42	33.50	33.55	33.69	33.69	33.73	33.69	33.69	33.60	33.58	33.47			
19		33.38	33.41	33.11	33.46	33.64	33.67	33.62	33.74	33.71	33.62	33.55	33.44			
20		33.28	33.41	33.14	33.44	33.68	33.60	33.66	33.69	33.73	33.57	33.57				
21		33.53	33.46	33.19	33.48	33.68	33.69	33.64	33.71	33.73	33.57	33.66	33.49			
22		33.34	33.47	33.15	33.47	33.61	33.74	33.60	33.61	33.73	33.60	33.54	33.51			
23		33.30	33.38	33.08	33.48	33.58	33.67	33.71	33.70	33.77	33.57	33.53	33.57			
24		33.40	33.36	33.17	33.53	33.62	33.67	33.69	33.74	33.81	33.67	33.47	33.48			
25		33.31	33.26	33.21	33.41	33.69	33.66	33.70	33.73	33.77	33.61	33.50	33.50			
26		33.39	33.33	33.21	33.57	33.68	33.73	33.55	33.61	33.80	33.61	33.51	33.54			
27		33.41	33.35	33.30	33.55	33.70	33.77	33.64	33.68	33.66	33.61	33.49	33.62			
28		33.53	33.39	33.34	33.55	33.69	33.68	33.55	33.66	33.64	33.67	33.58	33.60			
29		33.46		33.31	33.54	33.60	33.64	33.62	33.66	33.61	33.57	33.55	33.62			
30		33.53		33.39	33.64	33.51	33.67	33.70		33.66	33.61	33.49	33.58			
31		33.57		33.30		33.54		33.69			33.64		33.58			
MEAN		33.44	33.43	33.34	33.48	33.63	33.66	33.68	33.69	33.69	33.63	33.56	33.53	33.56		
MAX.		33.58	33.55	33.54	33.64	33.75	33.77	33.80	33.84	33.81	33.71	33.68	33.62		33.84	
MIN.		33.27	33.26	33.08	33.30	33.48	33.58	33.55	33.54	33.60	33.57	33.46	33.40			33.08
RANGE		.31	.29	.46	.34	.27	.19	.25	.30	.21	.14	.22	.22			
STD.DEV.		.08	.07	.12	.08	.06	.04	.06	.07	.06	.04	.06	.06			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	14.33	13.17	13.00	14.95	13.78	16.45	18.56	14.22	17.28	13.61	16.22	14.17			
2		14.17	12.56	12.78	14.50	14.00	16.45	18.89	15.11	18.28	14.61	16.17	13.95			
3		13.72	11.78	13.50	12.50	14.33	16.78	18.33	17.11	17.89	13.45	16.06	11.61			
4		14.00	12.00	13.45	13.50	14.22	16.89	18.00	18.33	18.89	14.22	15.72	12.22			
5		14.17	11.50	13.67	13.17	15.22	17.00	17.89	18.11	19.00	14.33	15.89	13.50			
6		14.17	12.00	13.45	12.94	15.28	17.06	18.11	17.00	18.28	15.05	16.06	13.78			
7		14.11	11.95	13.00	13.61	15.61	17.00	18.33	18.33	18.50	15.00	16.00	13.72			
8		13.95	12.17	13.78	13.61	15.22	15.83	18.78	20.06	19.27	15.39	15.89	13.39			
9		13.89	12.45	14.22	13.50	14.89	17.00	19.00	21.17	19.56	16.95	16.78	13.72			
10		13.95	12.50	14.00	13.78	15.33	16.95	18.83	21.17	21.28	16.00	16.17	13.67			
11		13.89	12.45	14.22	14.00	15.50	16.06	18.83	20.44	18.89	16.22	16.61	13.45			
12		13.61	12.33	14.28	13.50	16.17	17.06	19.06	18.72	17.00	16.17	16.28	13.39			
13		13.50	12.72	14.22	13.17	15.22	16.50	18.61	19.89	16.50	16.50	16.00	13.72			
14		13.45	12.83	14.22	13.50	15.28	16.78	18.22	20.28	14.72	17.00	15.89	13.72			
15		13.50	13.00	14.39	13.00	15.72	16.00	17.33	19.67	18.50	16.45	15.61	13.45			
16		13.67	13.28	14.56	13.72	16.00	16.50	16.56	19.56	18.78	16.11	15.78	13.45			
17		13.00	13.33	14.67	13.11	16.56	16.28	18.45	19.00	19.78	16.28	14.95	13.33			
18		12.72	13.11	14.22	12.00	16.83	16.89	18.11	19.39	20.06	16.00	15.00	13.17			
19		13.50	12.56	14.44	11.00	16.89	17.39	18.50	18.50	19.00	15.72	14.89	13.61			
20		13.45	12.15	14.72	11.78	16.89	17.22	18.22	16.22	18.22	15.56	15.83	13.33			
21		13.33	12.33	14.50	12.11	17.45	17.17	17.56	14.61	18.28	15.45	15.00	13.33			
22		13.45	12.39	14.95	12.94	17.11	16.61	17.22	14.05	18.95	15.83	15.11	13.33			
23		12.33	12.56	14.89	12.11	16.45	16.89	17.22	15.50	18.72	15.17	14.89	13.50			
24		13.28	12.39	14.78	11.89	16.00	17.17	17.22	17.33	18.28	15.56	14.61	13.61			
25		13.17	12.60	15.00	12.00	14.44	17.72	17.39	16.72	17.78	15.78	14.00	13.33			
26		13.33	12.89	14.95	11.95	15.05	18.00	18.11	16.45	16.56	15.28	14.89	13.61			
27		13.28	12.50	15.00	11.83	16.06	17.83	18.11	15.72	15.89	15.45	13.89	13.95			
28		13.22	12.78	15.50	13.11	17.06	17.61	18.67	14.61	14.56	15.22	13.98	13.50			
29		13.28		14.89	13.28	17.56	18.11	18.89	15.45	14.50	15.50	13.95	13.56			
30		13.28		14.78	13.72	17.06	18.45	18.72	16.17	14.28	15.83	14.22	13.39			
31		13.39		14.83		17.22		15.83	17.39		15.95		13.05			
MEAN		13.55	12.51	14.29	12.99	15.79	16.96	18.11	17.62	17.92	15.54	15.38	13.44	15.34		
MAX.		14.33	13.33	15.50	14.95	17.56	18.45	19.06	21.17	21.28	17.00	16.61	14.17		21.28	
MIN.		12.33	11.50	12.78	11.00	13.78	15.50	15.83	14.05	14.28	13.45	13.89	11.61			11.00
RANGE		2.00	1.83	2.72	3.95	3.78	2.95	3.23	7.12	7.00	3.55	2.72	2.56			
STD.DEV.		.44	.44	.67	.89	1.06	.67	.75	2.10	1.71	.83	.79	.46			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: BALBOA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV	DEC.	MEAN	MAX	MIN.
1	1956	33.41	33.58	33.34	33.42	33.48	33.55	33.64	33.55	33.68	33.40	33.58	33.64			
2		33.53	33.46		33.44	33.41	33.60	33.68	33.55	33.86	33.44	33.62	33.80			
3		33.46	33.50	33.38	33.44	33.46	33.60	33.62	33.55	33.72	33.53	33.62	33.61			
4		33.44	33.50	33.36	33.42	33.51	33.60	33.62	33.59	33.75	33.52	33.58	33.64			
5		33.42	33.47	33.38	33.44	33.50	33.58	33.67	33.55	33.64	33.54	33.58	33.63			
6		33.34	33.49	33.40	33.48	33.49	33.59	33.62	33.57	34.05	33.53	33.58	33.73			
7		33.34	33.47	33.40	33.49	33.42	33.60	33.59	33.58	34.07	33.53	33.60	33.78			
8		33.47	33.53	33.40	33.46	33.47	33.57	33.64	33.59	33.91	33.52	33.61	33.84			
9		33.46	33.49	33.38	33.47	33.46	33.58	33.25	33.64	33.72	33.53	34.13	33.68			
10		33.48	33.48	33.38	33.46	33.44	33.58	33.56	33.66	33.71	33.66	33.93	33.57			
11		33.47	33.50	33.38	33.46	33.46	33.57	33.57	33.64	33.88	33.66	33.89	33.78			
12		33.48	33.55	33.39	33.48	33.46	33.61	33.60	33.57	34.04	33.57	33.96	33.77			
13		33.51	33.58	33.39	33.48	33.40	33.61	33.58	33.55	33.77	33.58	34.04	33.72			
14		33.49	33.62	33.41	33.48	33.36	33.58	33.57	33.64	33.62	33.56	33.87	33.57			
15		33.54	33.57	33.40	33.53	33.40	33.57	33.57	33.57	33.80	33.64	33.83	33.59			
16		33.50	33.57	33.43	33.51	33.42	33.54	33.57	33.55	33.71	33.63	33.94	33.66			
17		33.51	33.57	33.42	33.53	33.42	33.56	33.57	33.55	33.71	33.58	33.73	33.52			
18		33.54	33.58	33.41	33.54	33.43	33.54		33.60	33.73	33.93	33.78	33.59			
19		33.51	33.57	33.43	33.67	33.43	33.53	33.53	33.52	33.78	33.60	33.71	33.66			
20		33.44	33.54	33.40	33.64	33.45	33.55	33.55	33.53	33.86	33.57	33.77	33.60			
21		33.48	33.60	33.40	33.58	33.46	33.54	33.53	33.58	33.78	33.56	33.64	33.83			
22		33.57	33.54	33.39	33.53	33.46	33.56	33.57	33.62	33.65	33.52	33.63	33.71			
23		33.50	33.63	33.39	33.55	33.52	33.57	33.54	33.59	33.63	33.53		33.51			
24		33.47	33.49	33.38	33.56	33.53	33.55	33.54	33.55	33.57	33.53	33.63	33.52			
25		33.51	33.47	33.37	33.56	33.52	33.57	33.56	33.57	33.77	33.58	33.71	33.52			
26		33.57	33.38	33.40	33.52	33.54		33.57	33.57	33.48	33.58	33.64	33.55			
27		33.53	33.35	33.39	33.53	33.54	33.66	33.58	33.57	33.54	33.56	33.86	33.55			
28			33.37	33.46	33.58	33.55	33.66	33.58	33.54	33.48	33.54	33.53	33.52			
29		33.55		33.40	33.56	33.55		33.60	33.57	33.49	33.55	33.58	33.54			
30		33.47		33.40	33.55	33.56		33.58	34.00	33.42	33.57	33.60	33.56			
31		33.53		33.42		33.56		33.58	33.97		33.54		33.52			
MEAN		33.48	33.51	33.39	33.51	33.47	33.58	33.57	33.60	33.73	33.57	33.73	33.64	33.56		
MAX.		33.57	33.62	33.43	33.67	33.56	33.66	33.68	34.00	34.07	33.93	34.13	33.84		34.13	
MIN.		33.34	33.35	33.34	33.42	33.36	33.53	33.25	33.52	33.42	33.40	33.53	33.51			33.25
RANGE		.23	.27	.09	.25	.20	.13	.43	.48	.65	.53	.60	.33			
STD.DEV.		.06	.07	.02	.06	.05	.03	.07	.11	.16	.08	.16	.10			

SEA WATER SUMMARY: TEMPERATURES — DAILY SURFACE

STATION: BALBOA, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC	MEAN	MAX	MIN.
1	1956	12.94	13.00	13.00	14.89	14.83	14.50	19.50	18.50	19.78	19.90	14.60	15.11			
2		12.67	12.33	12.72	12.39	14.83	15.05	18.80	18.72	18.00	20.22	14.00	15.00			
3		12.67	12.45	13.39	11.83	14.50	14.00	20.00	18.33	18.50	20.20	14.00	15.00			
4		12.78	12.83	13.33	13.05	14.61	15.00	19.50	19.33	17.00	20.40	14.20	14.50			
5		12.06	13.00	13.22	13.22	14.00	15.61	19.33	21.00	16.50	20.72	15.11	15.00			
6		12.45	13.17	12.89	13.95	13.45	16.00	19.45	20.28	17.00	19.72	14.80	15.10			
7		12.45	12.94	11.78	13.83	13.50	16.00	19.00	20.22	16.00	18.22	15.00	14.80			
8		12.00	13.11	12.00	13.89	13.28	17.39	17.89	20.50	16.50	18.40	15.90	14.70			
9		11.78	12.67	12.89	13.89	15.28	17.00	18.00	19.33	17.45	16.60	15.30	14.78			
10		12.06	12.72	13.00	14.39	15.22	17.50	17.00	19.50	17.67	17.30	15.40	14.78			
11		11.61	12.89	12.78	14.00	14.83	17.00	17.89	19.50	17.61	17.60	15.40	15.17			
12		11.72	12.89	12.61	13.00	14.83	17.00	18.00	18.00	16.89	17.83	16.40	15.40			
13		12.00	13.00	12.89	13.00	14.33	17.72	18.00	19.22	17.50	18.72	16.00	15.40			
14		12.39	12.78	12.89	13.11	12.83	17.45	18.22	18.28	15.95	17.83	15.40	15.10			
15		12.50	13.11	12.78	14.00	14.61	17.50	18.11	18.00	16.11	17.70	15.10	15.28			
16		12.78	12.94	13.00	14.39	14.00	17.50	18.22	18.00	15.39	17.70	15.20	15.39			
17		12.78	12.67	12.89	14.50	15.00	17.50	16.78	21.22	17.10	17.00	15.33	15.40			
18		12.67	11.78	12.39	14.00	14.22	17.70	16.78	21.00	17.50	17.60	15.00	15.20			
19		11.95	12.33	12.78	14.00	14.22	17.72	18.11	20.50	18.00	17.60	15.00	15.00			
20		12.22	12.39	12.89	14.39	14.00	18.00	18.00	20.40	17.78	17.39	14.50	15.40			
21		12.72	12.61	13.39	14.78	15.00	16.82	18.00	21.50	17.78	17.39	15.40	15.50			
22		12.89	12.50	13.39	15.11	16.00	17.00	18.11	20.00	19.22	18.00	15.80	15.50			
23		12.78	12.78	14.00	15.11	15.78	17.50	19.39	20.00	19.00	18.89	15.50	15.10			
24		12.50	11.89	14.00	15.11	16.00	17.50	19.00	19.83	17.45	17.00	15.00	15.10			
25		13.11	12.50	15.11	14.78	16.39	17.70	19.61	20.00	17.00	17.90	15.00	15.00			
26		13.28	12.50	14.50	15.00	15.83	18.00	17.78	20.00	16.40	17.30	14.80	15.10			
27		13.45	12.39	14.00	15.11	16.87	17.40	17.00	20.00	17.20	17.10	15.11	15.30			
28		13.33	12.56	14.72	15.39	16.22	18.00	17.00	19.50	17.11	17.50	15.00	15.11			
29		13.39	12.83	15.00	15.20	16.11	18.50	17.45	20.00	17.50	17.50	15.10	15.20			
30		13.33		15.28	15.11	15.50	18.60	18.17	20.00	19.00	16.50	15.00	15.22			
31		13.22		15.00		17.00		18.28	19.70		16.00		15.11			
MEAN		12.60	12.68	13.37	14.15	14.91	17.01	18.27	19.69	17.40	18.02	15.11	15.12	15.69		
MAX.		13.45	13.17	15.28	15.39	17.00	18.60	20.00	21.50	19.78	20.72	16.40	15.50		21.50	
MIN.		11.61	11.78	11.78	11.83	12.83	14.00	16.78	18.00	15.39	16.50	14.00	14.50			11.61
RANGE		1.84	1.39	3.50	3.56	4.17	4.60	3.22	3.50	4.39	5.22	2.40	1.00			
STD.DEV.		.48	.36	.90	.87	.99	1.17	.82	.91	1.05	1.30	.60	.24			

SEA WATER SUMMARY: Salinities Daily Surface

STATION: Balboa, California

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	33.47	33.48	33.44	33.63	33.58	33.58	33.68	33.62	33.60	33.61	33.67	33.58			
2		33.48	33.48	33.48			33.58	33.69	33.62	33.62	33.60	33.58	33.60			
3		33.55	33.47	33.43	33.58	33.58	33.57	33.69	33.60	33.62	33.59	33.60	33.62			
4		33.54	33.48	33.49	33.60	33.62	33.60	33.71	33.62	33.62		33.60	33.62			
5		33.61	33.49	33.54	33.61	33.58	33.62	33.71	33.70	33.60	33.66	33.62	33.61			
6		33.55	33.52	33.52	33.60	33.62	33.62	33.70	33.68	33.58	33.66	33.62	33.57			
7		33.57	33.48	33.51	33.58	33.59	33.62	33.66	33.66	33.55	33.61	33.58	33.58			
8		33.52	33.44	33.67	33.60	33.58	33.67	33.64	33.66	33.57	33.58	33.65	33.60			
9		33.38	33.50	33.48	33.58	33.58	33.60	33.57	33.62	33.53		33.65	33.63			
10		33.63	33.50	33.53	33.60	33.58	33.58	33.54	33.58	33.49	33.57	33.68	33.62			
11		33.56	33.50	33.56	33.58	33.53	33.58	33.57	33.58	33.56	33.55	33.68	33.66			
12		33.51	33.47	33.58	33.22	33.58	33.58	33.59	33.60	33.54	33.57	33.71	33.59			
13		33.64	33.47	33.82	33.19	33.57	33.60	33.61	33.66	33.53	33.62	33.68	33.60			
14		33.52	33.50	33.59	33.33	33.58	33.60	33.62	33.58	33.55	33.62	33.64	33.62			
15		33.70	33.51	33.58	33.38	33.58	33.60	33.64	33.57	33.53	33.62	33.66	33.58			
16		33.63	33.47	33.60	33.49	33.58	33.58	33.78	33.62	33.57	33.60	33.66	33.60			
17		33.68	33.48	33.59	33.40	33.60		33.60	33.73	33.53	33.58	33.61	33.59			
18		33.62	33.52	33.60	33.40	33.60	33.60	33.61	33.70	33.53	33.58	33.66	33.61			
19		33.65	33.53	33.58	33.39	33.60	33.60	33.60	33.66	33.58	33.66	33.63	33.64			
20		33.63	33.54	33.58	33.48	33.63	33.59	33.61	33.69	33.58	33.59	33.62	33.65			
21		33.58	33.56	33.61	33.44	33.60	33.60	33.63	33.69	33.57	33.58	33.68	33.60			
22		33.62	33.52	33.60	33.45	33.60	33.55	33.60	33.68	33.53	33.62	33.68	33.64			
23		33.75	33.57	33.58	33.47	33.61	33.59	33.57	33.64	33.57	33.73	33.60	33.62			
24		33.59	33.48	33.58	33.53	33.58	33.60	33.58	33.58	33.57	33.60	33.65	33.62			
25		33.50	33.48	33.61	33.57	33.61	34.40	33.57	33.58	33.55	33.68	33.63	33.64			
26		33.25	33.44	33.58	33.55	33.58	33.62	33.58	33.58	33.55	33.60	33.63	33.67			
27		32.86		33.58	33.49	34.67	33.57	33.58	33.60	33.57	33.62	33.64	33.64			
28		33.20	33.47	33.58	33.56	33.58		33.58	33.63	33.57	33.62	33.64	33.67			
29		33.25	33.47	33.60	33.57	33.61	33.60	33.57	33.63	33.58	33.60	33.63	33.64			
30		33.17		33.60	33.58	33.63	33.68	33.57	33.65	33.60	33.59	33.60	33.63			
31		33.30		33.63		33.60		33.56	33.67		33.59					
MEAN		33.50	33.49	33.57	33.50	33.63	33.62	33.62	33.63	33.56	33.61	33.64	33.62	33.58		
MAX.		33.75	33.57	33.82	33.63	34.67	34.40	33.78	33.73	33.62	33.73	33.71	33.67		34.67	
MIN.		32.86	33.44	33.43	33.19	33.53	33.55	33.54	33.57	33.49	33.55	33.58	33.57			32.86
RANGE		.89	.13	.39	.44	1.14	.85	.24	.16	.13	.18	.13	.10			
STD.DEV.		.19	.04	.08	.11	.16	.13	.05	.04	.03	.04	.03	.02			

SEA WATER SUMMARY: TEMPERATURES DAILY SURFACE STATION: BALBOA, CALIFORNIA

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1957	15.20	13.50	15.22	15.00	12.80	15.33		16.30	20.45	15.95	18.61	16.61			
2		15.20	13.50	15.25	14.22	13.33	15.50		19.50	20.17	16.83	18.39	16.83			
3		15.20	13.50	15.30	14.22	12.78	16.45		20.00	20.11	18.67	17.61	16.22			
4		15.00	13.45	15.00	13.50	13.11	15.50		20.40	19.59	19.00	16.50	16.39			
5		15.00	13.50	15.56	13.50	13.50	15.61		21.50	19.00	18.17	17.50	16.00			
6		14.89	13.11	15.50	13.72	14.39	15.33		21.78	18.60	18.00	17.33	15.83			
7		14.72	13.11	15.50	13.83	14.00	15.33		21.40	18.40	17.72	17.28	16.00			
8		14.89	13.17	15.56	13.89	14.33	15.39		20.40	18.75	17.56	17.39	16.00			
9		14.70	13.11	15.50	14.00	14.83	15.39		20.22	18.50	17.56	17.17	16.22			
10		14.40	13.11	15.20	14.11	13.33	17.00	20.90	21.60	18.85	17.28	17.33	16.22			
11		15.00	13.22	15.50	14.39	13.50	16.11	20.20	21.10	17.40	17.22	17.33	16.11			
12		15.11	13.39	15.20	14.39	14.00	17.50	21.11	21.17	17.50	17.67	17.33	16.33			
13		15.22	13.95	15.40	14.11	14.89	15.55	21.11	21.22	18.67	17.45	17.33	15.95			
14		15.00	14.33	14.50	14.22	14.11	17.00	20.00	20.50	16.89	17.22	17.28	16.17			
15		15.10	14.33	14.60	13.61	13.72	17.85	20.11	21.10	18.89	16.22	17.17	16.00			
16		14.90	14.00	14.83	13.61	14.33	17.85	20.33	21.33	18.83	16.83	16.83	16.50			
17		14.80	14.44	13.72	13.50	15.00	17.72	21.40	22.06	19.39	17.11	16.50	16.50			
18		15.17	14.83	14.72	13.22	14.72	17.61	21.40	23.00	18.83	17.11	16.33	16.33			
19		14.95	14.83	14.39	13.78	15.00	18.00	20.28	22.84	19.50	17.17	17.00	16.33			
20		14.80	14.39	14.39	13.11	13.72	17.90	20.40	23.22	19.70	17.50	16.89	16.39			
21		14.00	14.22	14.44	13.17	13.72	18.83	20.40	23.39	19.11	17.28	16.39	16.33			
22		14.40	14.83	14.61	12.45	14.00	18.11	19.89	23.00	18.39	17.17	16.11	16.17			
23		14.20	14.61	14.39	13.11	14.33	18.41	20.06	21.05	18.33	17.22	15.05	16.39			
24		14.10	15.00	14.28	13.83	14.44	18.50	20.00	19.22	18.11	17.22	15.50	16.22			
25		14.10	14.89	14.61	13.89	14.50	18.45	19.22	17.33	16.33	17.28	15.00	16.22			
26		14.22	15.00	14.22	14.17	14.50	18.61	19.94	17.78	18.33	17.22	15.22	16.11			
27		13.61	15.11	14.50	13.95	15.00		20.00	18.45	16.90	17.45	15.33	16.28			
28		13.50	15.22	14.50	14.39	15.00		19.75	19.78	15.70	17.17	15.56	16.28			
29		13.45		14.44	12.78	15.33		19.45	22.11	15.50	17.33	16.00	16.11			
30		13.00		14.39	12.94	14.44		16.50	20.00	15.89	18.33	15.83	16.22			
31		13.50		14.60		15.22		16.60	20.44		18.61		16.11			
MEAN		14.56	14.06	14.83	13.75	14.19	16.96	19.89	20.75	18.44	17.44	16.70	16.24	16.48		
MAX.		15.22	15.22	15.56	15.00	15.33	18.83	21.40	23.39	20.95	19.00	18.61	16.83		23.39	
MIN.		13.00	13.11	13.72	12.45	12.78	15.33	16.50	16.30	15.50	15.95	15.00	15.83			12.45
RANGE		2.22	2.11	1.84	2.55	2.55	3.50	4.90	7.09	5.45	3.05	3.61	1.00			
STD.DEV.		.54	.57	.43	.57	.69	.96	1.44	1.96	1.36	.74	.95	.22			

SEA WATER SUMMARY: Salinities STATION: Balboa, California
Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957		33.52	33.41	33.49	33.54	33.47	33.58	33.50	34.36	33.53	33.67	33.68			
2			33.53	33.37	33.56	33.53	33.51	33.59	33.53	33.58	33.56	33.66	33.69			
3		33.64	33.51	33.43	33.54	33.53	33.50	33.51	33.53	33.93	33.68	33.60	33.69			
4		33.64	33.51	33.45	33.62	33.49	33.49	33.53	33.57	33.60	33.68	33.60	33.69			
5		33.46	33.52	33.39	33.55	33.50	33.53	33.51	33.54	33.54	33.62	33.61	33.64			
6		33.64	33.53	33.44	33.51	33.51	33.55	33.98	33.55	33.51	33.64	33.60	33.65			
7		33.62	33.51	33.42	33.49	33.54	33.55	33.55	33.60	33.48	33.59	33.60	33.63			
8		33.57	33.49	33.39	33.57	33.64	33.57	33.44	33.62	33.48	33.84	33.60	33.60			
9		33.60	33.50	33.42	33.51	33.57	33.57	33.62	33.62	33.51	33.60	33.66	33.68			
10		33.60	33.49	33.42	33.53	33.55	33.57	33.64	33.58	33.53	33.79	33.73	33.69			
11		33.57	33.50	33.42	33.53	33.36	33.55	33.60	33.59	33.48	33.49	33.63	33.69			
12		33.60	33.48	33.48	33.51	33.42	33.58	33.88	33.37	33.48	33.58	33.59	33.68			
13		33.55	33.57	33.47	33.48	33.48	33.60	33.63	33.60	33.51	33.61	33.61	33.72			
14		33.51	33.55	33.47	33.40	33.51	33.53	33.63	33.58	33.50	33.60	33.55	33.66			
15		33.52	33.55	33.42	33.45	33.50	33.63	33.58	33.58	33.48	33.57	33.59	33.58			
16		33.53	33.55	33.35	33.55	33.47	33.58	33.58	33.60	33.49	33.68	33.62	33.58			
17		33.59	33.62	33.48	33.57	33.48	33.60	33.57	33.58	33.50	33.55	33.60	33.83			
18		33.61	33.57	33.48	33.51	33.54	33.60	33.52	33.65	33.57	33.80	33.63	33.58			
19		33.58	33.54	33.49	33.39	33.34	33.62	34.68	33.49	33.51	33.58	33.60	33.61			
20		33.61	33.52	33.47	33.47	33.48	33.62	34.29	33.68	33.56	33.57	33.58	33.65			
21		33.51	33.54	33.48	33.40	33.48	33.64	33.58	33.60	33.51	33.53	33.60	33.64			
22		33.51	33.53	33.48	33.39	33.47	33.69	33.58	33.35	33.51	33.56	33.61	33.60			
23		33.54	33.40	33.51	33.41	33.43	33.66	33.60	33.55	33.35	33.59	33.60	33.63			
24		33.53	33.46	33.52	33.34	33.46	33.64	33.55	33.55	33.49	33.60	33.71	33.62			
25		33.57	33.49	33.50	33.44	34.38	33.62	33.57	33.53	33.62	33.58	33.58	33.60			
26		33.51	33.44	33.48	33.42	33.48	33.68	33.58	33.51	33.55	33.55	33.58	33.60			
27		33.52	33.31	33.46	33.31	33.46	33.66	33.56	33.53	33.53	33.67	33.60	33.62			
28		33.48	33.43	33.48	33.46	33.53	33.68	33.57	33.53	33.51	33.64	33.62	33.64			
29		33.51			33.51	33.52	33.71	33.34	33.66	33.42	33.60	33.65	33.66			
30		33.53		33.51	33.51	33.48	33.57	33.48	33.67	33.49	33.64	33.64	33.65			
31		33.53		33.51		33.55		33.47	33.68		33.56		33.65			
MEAN		33.56	33.50	33.45	33.48	33.52	33.59	33.64	33.56	33.55	33.62	33.62	33.65	33.56		
MAX.		33.64	33.62	33.52	33.62	34.38	33.71	34.68	33.68	34.36	33.84	33.73	33.83		34.68	
MIN.		33.46	33.31	33.35	33.31	33.34	33.47	33.34	33.35	33.35	33.49	33.55	33.58			33.31
RANGE		.18	.31	.17	.31	1.04	.24	1.34	.33	1.01	.35	.18	.25			
STD.DEV.		.05	.07	.04	.01	.18	.06	.30	.09	.21	.08	.04	.05			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	16.11	15.78	14.61	16.61	17.89	17.33	19.78	17.61	19.39	20.28	19.00	16.45			
2		16.11	15.83	15.28	16.22	17.78	17.50	20.00	18.42	20.10	20.33	16.50	15.60			
3		16.11	15.50	15.45	16.17	18.00	17.50	19.78	18.50	20.00	20.22	16.60	16.22			
4		15.89	15.50	15.39	15.72	17.56	16.39	19.80	18.75	19.90	20.33	16.90	16.22			
5		15.89	15.63	15.11	15.50	17.28	17.11	19.89	18.95	20.11	20.12	18.89	16.67			
6		15.89	15.56	15.39	14.90	17.11	17.33	19.83	19.50	20.50	20.39	19.00	16.28			
7		15.50	15.50	14.60	15.22	17.11	16.83	18.67	20.11	20.61	20.56	18.89	16.60			
8		15.61	16.00	14.61	15.11	16.50	17.11	16.56	20.44	20.50	20.60	18.72	16.50			
9		15.61	16.17	15.10	15.61	16.61	17.61	15.50	18.78	17.20	19.61	19.11	16.56			
10		15.67	16.22	15.00	16.45	16.71	17.56	15.89	17.72	17.50	19.80	19.39	16.33			
11		15.67	16.22	15.20	16.61	16.61	17.22	17.28	18.78	17.90	19.40	18.90	16.39			
12		15.67	16.22	14.60	17.50	16.50	17.61	17.83	20.11	18.86	19.61	19.00	16.28			
13		15.72	16.06	15.00	17.33	16.61	17.22	18.33	19.70	19.00	19.45	19.27	16.61			
14		15.72	15.61	15.11	17.11	17.28	17.00	18.89	21.60	19.22	19.50	19.11	16.67			
15		15.89	16.22	15.17	17.00	17.00	18.11	19.61	21.11	19.61	19.67	18.00	16.67			
16		15.83	15.90	15.17	16.61	16.67	17.72	18.72	20.84	19.11	19.50	15.50	16.72			
17		15.89	16.11	15.39	16.50	16.33	15.83	18.78	20.89	19.17	19.56	14.20	16.83			
18		15.67	16.22	15.28	16.78	16.50	18.11	18.22	20.11	19.50	19.50	14.50	16.50			
19		17.00	15.89	15.40	17.22	15.78	18.11	19.27	18.61	19.72	19.50	14.70	16.50			
20		16.00	15.95	15.22	17.50	15.89	18.45	19.39	19.22	19.39	19.30	15.00	16.50			
21		16.00	15.89	15.45	18.50	16.11	18.50	18.56	19.50	19.72	19.60	16.30	16.00			
22		15.28	16.06	15.50	18.50	16.11	18.39	18.72	19.33	19.22	20.00	16.10	16.00			
23		15.78	16.17	15.56	18.89	16.00	17.33	19.82	19.45	19.72	19.78	15.60	16.22			
24		15.83	16.22	15.70	18.89	14.61	18.39	16.11	19.67	20.00	19.55	16.40	16.39			
25		15.78	16.06	15.56	18.95	15.11	18.39	15.78	19.00	19.06	19.40	16.45	16.17			
26		15.83	15.39	15.61	18.95	15.33	19.50	17.11	20.18	19.17	19.70	16.33	16.17			
27		15.61	15.11	15.78	18.33	15.56	19.76	17.61	20.11	20.22	19.32	16.11	16.17			
28		15.61	15.22	15.78	18.39	14.50	19.76	18.72	20.00	20.14	19.39	16.50	16.17			
29		15.83		15.83	18.11	15.05	19.83	18.00	19.56	19.89	19.22	16.50	15.78			
30		15.61		15.83	18.06	15.60	20.00	18.50	19.22	20.22	18.95	16.50	15.61			
31		15.72		16.33		16.72		17.00	19.33		18.78		15.22			
1-10 MEAN		15.84	15.77	15.05	15.75	17.26	17.23	18.57	18.88	19.58	20.28	18.90	16.34			
11-20 MEAN		15.91	16.04	15.15	17.02	16.52	17.54	18.63	20.10	19.14	19.50	16.82	16.57			
21-31 MEAN		15.72	15.76	15.72	18.56	15.52	18.98	17.81	19.63	19.74	19.43	16.28	15.99			
MON. MEAN		15.82	15.86	15.32	17.11	16.40	17.92	18.32	19.54	19.49	19.73	17.33	16.29	17.43		
MAX.		17.00	16.22	16.33	18.95	18.00	20.00	20.00	21.60	20.61	20.72	19.39	16.83		21.60	
MIN.		15.28	15.11	14.60	14.90	14.50	15.83	15.50	17.61	17.20	18.78	14.20	15.22			14.20
RANGE		1.72	1.11	1.73	4.05	3.50	4.17	4.50	3.99	3.41	1.94	5.19	1.61			
STD. DEV.		.32	.29	.40	1.08	.92	1.04	1.17	1.00	.88	.49	1.36	.39			

SEA WATER SUMMARY: Salinities STATION: Balboa, Calif.

Daily Surface

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.69	33.66	33.58	33.26	33.33	33.51	33.62		33.46	33.48	33.42	33.58			
2		33.68	33.60	33.53	33.17	33.29	33.48	33.65		33.49	33.49	33.40	33.54			
3		33.68	33.45	33.58	32.95	33.39	33.57	33.66	33.50	33.48	33.37	33.48	33.58			
4			33.53	33.67	32.99	33.37	33.55	33.60		33.49	33.46	33.48	33.56			
5		33.68	33.58	33.55	32.94	33.43	33.56	33.59		33.44	33.52	33.48	33.60			
6		33.68	33.57	33.56	32.72	33.48	33.99	33.61	33.47	33.46	33.47	33.48	33.57			
7		33.71	33.61	33.50	32.92	33.46	33.69	33.58	33.49	33.46	33.48	33.48	33.58			
8		33.68	33.48	33.58	32.95	33.49	33.58	33.57	33.47	33.75	33.42	33.47	33.70			
9		33.70	33.60	33.53	32.74	33.48	33.58	33.58	33.47	33.42	33.43	33.48	33.55			
10		33.68	33.57	33.54	32.29	33.48	33.49	33.55	33.49		33.44	33.49	33.57			
11		33.73	33.30	33.52	32.20	33.49	33.49	33.58	33.49	33.41	33.59	33.53	33.56			
12		33.75	33.28	33.65	32.30	33.44	33.57	33.57	33.51	33.31	33.48	33.54	33.57			
13		33.71	33.27	33.57	32.75	33.53	33.57	33.56	33.58	33.40	33.84	33.57	33.58			
14		33.71	33.37	33.56		33.58		33.55	33.56	33.30	33.86	33.57	33.56			
15		33.71	33.35	33.53	33.12	33.59	33.54	33.53	33.53	33.43	33.39	33.60	33.57			
16		33.70	33.48	33.46		33.58	33.53	33.54	33.52	33.40	33.40	33.55				
17		33.69	33.26	32.94	33.24	33.50	33.53	33.56	33.48	33.24	33.31	33.51	33.58			
18		33.71	33.40	33.43	33.25	33.55	33.58	33.57	33.54	33.42	33.65	33.51	33.58			
19		33.72	33.43	33.49	33.18	33.51	33.60	33.57		33.40	33.41	33.51	33.55			
20		33.72	33.52	33.48	33.26	33.48	33.55	33.57		33.40	33.43	33.48	33.57			
21		33.73	33.53	33.31	33.25	33.49	33.46	33.55	33.50	33.42	33.52	33.53	33.53			
22		33.72	33.70	33.25	33.29	33.52	33.58	33.43	33.51	33.29	33.47	33.53	33.58			
23		33.70	33.60	33.44	33.33	33.55	33.57	33.57	33.47	33.43	33.48	33.48	33.55			
24		33.71	33.63	33.40		33.49	33.57	33.55	33.49	33.50	33.44	33.54	33.66			
25		33.73	33.47	33.27	33.30	33.54	33.62	33.52	33.49	33.30	33.48	33.53	33.59			
26		33.58	33.10	33.30	33.35	33.57	33.57	33.53	33.48	33.40	33.50	33.49	33.57			
27		33.46	33.39	33.30	33.33	33.54	33.62	33.57		33.46	33.48	33.51	33.55			
28		33.31	33.48	33.35	33.05	33.55	33.58	33.73		33.37	33.48	33.53	33.58			
29		33.51		33.36	33.32	33.52	33.53	33.57		33.40	33.41	33.53	33.55			
30		33.55		33.43	33.31	33.52	33.60	33.53		33.40	33.42	33.49	33.58			
31		33.55		33.34		33.58		33.54			33.44		33.58			
1-10 MEAN		33.69	33.56	33.56	32.89	33.42	33.60	33.60	33.48	33.49	33.46	33.47	33.58			
11-20 MEAN		33.72	33.37	33.48	32.91	33.52	33.55	33.56	33.53	33.37	33.54	33.54	33.57			
21-31 MEAN		33.60	33.49	33.34	33.28	33.53	33.57	33.55	33.49	33.40	33.46	33.52	33.57			
MON. MEAN		33.66	33.47	33.46	33.03	33.49	33.57	33.57	33.50	33.42	33.48	33.51	33.58	33.48		
MAX.		33.75	33.70	33.85	33.35	33.59	33.99	33.73	33.58	33.75	33.86	33.60	33.70		33.99	
MIN.		33.31	33.10	32.94	32.20	33.29	33.46	33.43	33.47	33.24	33.31	33.40	33.53			32.20
RANGE		.44	.60	.91	1.15	.30	.53	.30	.11	.51	.55	.20	.17			
STD. DEV.		.10	.14	.18	.31	.08	.10	.06	.03	.10	.14	.05	.04			

SEA WATER SUMMARY: TEMPERATURES STATION: BALBOA, CALIFORNIA

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	15.82	15.20	15.28	16.11	16.10	17.45	21.11	20.22	18.89	[illegible]	17.95	17.50			
2		15.82	15.11	15.33	16.28	18.00	18.00	21.67	21.11	[illegible]	19.00	17.61	17.50			
3		15.80	15.20	15.33	16.78	16.83	18.00	21.11	21.00	[illegible]	19.45	16.67	17.33			
4		15.56	15.11	15.33	16.78	16.11	17.83	20.44	21.05	[illegible]	[illegible]	17.11	17.33			
5		15.72	15.33	15.28	16.00	16.39	18.50	20.22	21.11	[illegible]	[illegible]	[illegible]	16.72			
6		15.72	15.30	15.33	16.00	16.50	18.39	18.95	21.00	[illegible]	[illegible]	[illegible]	16.72			
7		15.50	15.30	15.72	15.22	17.00	18.00	19.11	21.05	[illegible]	[illegible]	[illegible]	16.72			
8		15.45	15.00	15.67	15.28	17.00	18.00	19.33	19.45	[illegible]	[illegible]	[illegible]	17.11			
9		15.72	14.83	15.67	14.89	17.00	18.00	19.45	17.56	[illegible]	[illegible]	[illegible]	16.72			
10		15.61	14.79	15.67	16.00	17.22	18.22	21.11	19.00	[illegible]	[illegible]	[illegible]	17.82			
11		15.72	14.45	15.67	16.00	17.28	18.78	20.84	17.50	[illegible]	[illegible]	[illegible]	17.28			
12		15.61	14.83	15.72	16.00	17.22	18.78	21.45	18.33	[illegible]	[illegible]	[illegible]	17.78			
13		15.72	14.83	16.00	16.00	17.28	18.50	21.45	18.33	[illegible]	[illegible]	[illegible]	16.11			
14		15.00	14.83	16.00	16.00	17.00	18.78	21.50	19.50	[illegible]	[illegible]	[illegible]	15.78			
15		15.60	14.89	16.11	15.50	16.95	19.50	21.11	19.50	[illegible]	[illegible]	[illegible]	15.83			
16		15.60	14.89	16.11	14.95	17.20	19.00	20.78	19.00	[illegible]	[illegible]	[illegible]	15.61			
17		15.60	14.89	16.11	15.89	17.40	19.50	19.45	19.11	[illegible]	[illegible]	[illegible]	15.33			
18		15.40	14.95	16.00	16.00	18.00	20.17	19.45	17.00	[illegible]	[illegible]	[illegible]	15.89			
19		15.60	15.11	16.10	16.00	18.22	20.00	18.50	18.00	[illegible]	[illegible]	[illegible]	15.56			
20		15.33	15.00	16.17	16.20	18.35	20.89	18.61	16.67	[illegible]	[illegible]	[illegible]	15.89			
21		15.22	15.00	17.22	16.22	18.45	20.89	19.22	16.67	[illegible]	[illegible]	[illegible]	16.45			
22		15.22	14.95	16.83	16.39	18.33	20.84	19.89	17.22	[illegible]	[illegible]	[illegible]	15.72			
23		15.60	15.00	16.89	16.28	18.39	20.84	20.28	16.28	[illegible]	[illegible]	[illegible]	16.22			
24		15.17	15.05	16.89	16.78	18.33	20.89	20.33	19.72	[illegible]	[illegible]	[illegible]	15.50			
25		15.20	14.89	16.11	16.67	18.39	21.67	20.33	20.00	[illegible]	[illegible]	[illegible]	15.61			
26		15.20	15.28	15.89	16.83	18.78	21.45	20.33	19.17	[illegible]	[illegible]	[illegible]	15.28			
27		15.20	15.22	16.00	16.83	18.45	20.17	20.67	17.89	[illegible]	[illegible]	[illegible]	15.05			
28		15.45	15.28	16.00	17.06	17.85	20.30	20.84	18.33	[illegible]	[illegible]	[illegible]	15.22			
29		15.45		16.06	17.22	17.78	21.11	21.00	18.50	[illegible]	[illegible]	[illegible]	15.39			
30		15.30		16.22	15.45	18.45	21.50	20.44	18.17	[illegible]	[illegible]	[illegible]	15.39			
31		15.30		16.22		18.33		20.00	18.50		[illegible]		14.50			
1-10 MEAN		15.67	15.12	15.46	15.93	17.02	18.04	20.25	20.26	20.32	[illegible]	17.55	17.15			
11-20 MEAN		15.52	14.87	16.00	15.85	17.49	19.39	20.31	18.29	[illegible]	19.93	17.62	16.11			
21-31 MEAN		15.30	15.08	16.39	16.87	18.32	20.97	20.30	18.22	[illegible]	[illegible]	[illegible]	15.48			
MON. MEAN		15.49	15.02	15.96	16.22	17.63	19.46	20.29	18.90	[illegible]	[illegible]	[illegible]	16.22	17.71		
MAX.		15.82	15.33	17.22	[illegible]	18.78	21.67	21.67	21.11	[illegible]	[illegible]	[illegible]	[illegible]		22.39	
MIN.		15.00	14.45	15.28	[illegible]	16.11	17.45	18.50	16.28	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
RANGE		.82	.88	1.94	2.56	2.67	4.22	3.17	4.83	[illegible]	[illegible]	[illegible]	[illegible]			
STD. DEV.		.20	.19	.48	[illegible]	.64	1.07	.82	1.26	[illegible]	[illegible]	[illegible]	.82			

SEA WATER SUMMARY: SALINITIES DAILY SURFACE STATION: BALBOA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	33.55	33.55	33.43	33.55	33.58	33.64	33.78	33.75	33.64	33.68	33.71	33.75			
2		33.58	33.56	33.46	33.56	33.58	33.68	33.85	33.71	33.64	33.69	33.66	33.73			
3		33.60	33.57	33.46	33.55	33.60	33.68	33.77	33.83	33.70	33.67	33.66	33.89			
4		33.53	33.58	33.42	33.55	33.61	33.74	33.73	33.85	33.68	33.70	33.65	33.66			
5		33.56	33.57	33.40	33.55	33.60	33.66	33.73	33.78	33.61	33.69	33.68	33.71			
6		33.50	33.57	33.44	33.55	33.62	33.66	33.69	33.73	33.60	33.68	33.69	33.71			
7		33.53	33.60	33.43	33.55	33.68	33.84	33.66	33.82	33.69	33.67	33.70	33.71			
8		33.55	33.59	33.48	33.60	33.59	33.62	33.66	33.78	33.71	33.73	33.81	33.69			
9		33.52	33.55	33.48	33.57	33.63	33.64	33.67	33.80	33.74	33.72	33.69	33.68			
10		33.51	33.51	33.48	33.57	33.61	33.68	33.68	33.75	33.64	33.75	33.69	33.68			
11		33.57	33.62		33.58	33.60	33.71	33.62	33.70	33.64	33.72	33.70	33.69			
12		33.53	33.53	33.50	33.58	33.61	33.75	33.64	33.66	33.70	33.75	33.78	33.55			
13		33.52	33.52	33.48	33.51	33.64	33.68	33.64	33.71	33.71	33.68	33.69	33.73			
14		33.53	33.55	33.50	33.57	33.64	33.67	33.64	33.67	33.75	33.71	33.73	33.79			
15		33.51	33.51	33.52	33.57	33.62	33.69	33.89	33.71	33.73	33.72	33.70	33.77			
16		33.50	33.47	33.54	33.62	33.62	33.68	33.68	33.62	33.71	33.64	33.69	33.64			
17		33.49	33.48	33.53	33.61	33.60	33.68	33.96	33.75	33.74	33.64	33.71	33.68			
18		33.71	33.48	33.52	33.58	33.62	33.68	33.63	33.74	33.72	33.66	33.71	33.67			
19		33.47		33.58	33.68	33.61	33.67	33.60	33.78	33.72	33.68	33.80	33.68			
20		33.51	33.47	33.55	33.64	33.64	33.69	33.87	33.64	33.66	33.71		33.68			
21		33.51	33.40	33.51	33.66	33.64	33.64	33.70	33.73	33.82	33.69	33.76	33.64			
22		33.50	33.37	33.53	33.63	33.68	33.68	33.70	33.78	33.66	33.68	33.76	33.64			
23		33.53	33.33		33.66	33.68	33.66	33.57	33.62	33.64	33.72	33.73	33.64			
24		33.55	33.48	33.58	33.60	33.69	33.76	33.55	33.67	33.64	33.68	33.75	33.58			
25		33.56	33.40	33.57	33.64	33.75	33.71	33.67	33.65	33.65	33.67	33.69	33.58			
26		33.53	33.45	33.55	33.37	33.75	33.77	33.76	33.64	33.64	33.69	33.71	33.63			
27		33.52	33.40	33.55	33.62	33.73	33.76	33.66	33.57	33.64	33.68	33.74	33.60			
28		33.52	33.40	33.56	33.59	33.70	33.74	33.62	33.54	33.64	33.68	33.76	33.62			
29		33.51		33.53	33.57	33.75	33.77	33.76	33.76	33.65	33.66	33.77	33.54			
30		33.77		33.54	33.57	33.73	33.82	33.78	33.62	33.64	33.68	33.78	33.64			
31		33.51		33.55		33.65		33.82	33.61		33.75		33.55			
1-10 MEAN		33.54	33.56	33.45	33.56	33.61	33.68	33.72	33.78	33.66	33.70	33.69	33.72			
11-20 MEAN		33.53	33.51	33.52	33.59	33.62	33.69	33.72	33.72	33.71	33.69	33.72	33.69			
21-31 MEAN		33.55	33.40	33.55	33.59	33.70	33.73	33.69	33.67	33.66	33.69	33.74	33.60			
MON. MEAN		33.54	33.50	33.51	33.58	33.65	33.70	33.71	33.72	33.68	33.69	33.72	33.67	33.64		
MAX.		33.77	33.62	33.58	33.68	33.75	33.84	33.96	33.96	33.82	33.75	33.81	33.89		33.96	
MIN.		33.47	33.33	33.40	33.37	33.58	33.62	33.55	33.57	33.64	33.64	33.65	33.54			33.30
RANGE		.30	.29	.18	.31	.17	.22	.41	.39	.18	.11	.16	.35			
STD DEV		.07	.07	.05	.06	.05	.05	.10	.11	.05	.03	.04	.08			

SEA WATER SUMMARY: TEMPERATURES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG	SEPT	OCT	NOV	DEC	MEAN	MAX.	MIN
1	1945	13.89	13.77	12.62	12.20	15.83	17.35	19.69	22.43	21.59	19.52	17.16	14.67			
2		13.69	14.33	13.12	13.02	15.61	17.25	19.51	22.07	21.69	19.22	16.45	14.20			
3		14.62	14.13	12.92	12.60	15.85	17.39	19.25	21.94	21.94	19.34	16.56	13.99			
4		13.92	14.04	13.10	12.89	16.61	18.14	19.60	22.53	22.31	19.10	16.56	13.71			
5		14.11	14.25	12.82	13.57	16.95	18.59	18.83	22.56	22.72	18.82	17.12	13.77			
6		14.50	14.21	12.98	13.38	14.71	18.24	19.17	22.94	20.54	17.34	17.33	13.95			
7		14.55	13.83	12.94	13.44	13.22	18.37	19.61	22.65	21.12	19.44	16.71	14.03			
8		14.89	14.05	13.26	13.81	14.84	18.51	17.75	21.99	21.46	19.68	15.64	13.86			
9		14.90	13.90	13.61	14.04	13.91	18.24	18.28	20.31	19.21	19.75	15.75	13.61			
10		14.91	14.18	13.61	12.96	15.42	18.07	19.19	20.84	21.34	19.33	15.63	13.26			
11		14.83	14.19	13.70	12.67	15.38	18.24	19.21	20.60	20.13	18.92	16.12	13.68			
12		14.54	14.27	14.39	13.33	15.23	18.37	19.63	20.70	18.15	18.61	15.06	14.21			
13		14.75	14.32	14.03	13.25	15.72	18.89	19.89	20.86	18.45	19.00	14.09	13.62			
14		14.71	14.12	14.23	13.21	15.69	18.54	19.87	20.59	16.43	19.20	14.25	12.78			
15		14.86	14.21	13.89	13.14	15.27	18.22	19.90	20.44	20.12	19.33	14.63	13.28			
16		14.82	13.99	13.74	13.00	15.89	18.69	19.97	20.65	20.53	19.15	14.59	13.39			
17		14.44	14.20	13.65	13.70	16.48	19.04	19.98	21.11	20.47	18.60	14.69	14.16			
18		14.35	14.71	13.71	14.10	16.74	18.91	20.19	21.65	20.57	18.35	14.43	14.57			
19		14.37	14.21	13.63	14.22	16.49	18.99	20.70	21.13	20.81	17.46	14.22	14.29			
20		14.09	13.59	13.84	14.40	12.59	18.91	20.47	21.69	20.84	17.57	14.09	14.64			
21		13.96	13.22	13.92	14.25	15.76	18.84	20.25	21.41	20.75	17.31	14.53	15.33			
22		13.81	13.60	13.45	13.31	16.24	18.69	19.99	21.22	20.60	17.62	14.80	15.39			
23		13.36	14.11	13.28	14.54	16.64	18.95	20.26	21.25	19.93	18.03	14.92	15.44			
24		13.16	14.13	12.25	14.23	16.94	19.19	20.54	21.05	19.52	17.51	15.09	15.11			
25		13.57	13.68	11.38	14.94	17.21	19.06	20.95	21.21	19.81	17.50	14.21	15.10			
26		13.48	13.60	11.44	14.73	16.95	19.39	20.99	20.94	19.39	17.41	14.99	15.22			
27		13.53	13.38	11.68	14.62	14.89	19.21	20.84	21.14	19.54	17.82	14.60	15.12			
28		13.72	13.30	11.65	15.66	16.93	19.35	21.07	21.36	19.69	17.53	14.90	15.18			
29		13.54		12.22	15.29	17.35	19.49	21.66	21.49	19.62	17.34	13.47	15.13			
30		13.33		12.09	15.96	17.76	19.73	21.80	21.22	19.94	17.74	14.70	15.11			
31		14.02		12.60		17.87		22.12	21.19		17.21		14.86			
MEAN		14.17	13.99	13.09	13.82	15.90	18.63	20.02	21.39	20.31	18.48	15.24	14.32	16.61		
MAX.		14.91	14.71	14.39	15.96	17.87	19.73	22.12	22.94	22.72	19.75	17.33	15.44		22.94	
MIN.		13.16	13.22	11.38	12.20	12.59	17.25	17.75	20.31	16.43	17.21	13.47	12.78			11.38
RANGE		1.75	1.49	3.01	3.76	5.28	2.48	4.37	2.63	6.29	2.54	3.86	2.66			
STD.DEV.		.45	.35	.78	.93	1.33	.63	1.01	.66	1.43	.66	.95	.68			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Scripps Pier: La Jolla, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX	MIN.
1	1945	33.58	33.57	33.33	33.66	33.64	33.68	33.70	33.66	33.71	33.68	33.60	33.54			
2		33.60	33.54	33.38	33.62	33.64	33.71	33.66	33.68	33.75	33.66	33.60	33.54			
3		33.57	33.47	33.41	33.60	33.70	33.74	33.62	33.74	33.71	33.66	33.54	33.6			
4		33.60	33.51	33.30	33.64	33.69	33.64	33.71	33.73	33.64	33.73	33.6	33.66			
5		33.64	33.53	33.14	33.55	33.71	33.73	33.70	33.68	33.78	33.62	33.54	33.57			
6		33.58	33.57	33.30	33.55	33.73	33.73	33.71	33.68	33.81	33.64	33.60	33.58			
7		33.57	33.57	33.33	33.58	33.73	33.76	33.78	33.74	33.77	33.64	33.55	33.58			
8		33.62	33.57	33.47	33.54	33.71	33.67	33.75	33.77	33.75	33.71	33.58	33.61			
9		33.62	33.64	33.44	33.57	33.77	33.64	33.71	33.64	33.73	33.70	33.58	33.60			
10		33.62	33.57	33.50	33.57	33.77	33.76	33.73	33.69	33.77	33.67	33.62	33.6			
11		33.57	33.57	33.61	33.62	33.74	33.75	33.67	33.74	33.70	33.60	33.57	33.6			
12		33.66	33.68	33.64	33.67	33.71	33.71	33.7	33.77	33.74	33.64	33.5	33.62			
13		33.60	33.55	33.60	33.61	33.69	33.75	33.71	33.66	33.64	33.64	33.55	33.57			
14		33.62	33.54	33.57	33.70	33.70	33.74	33.25	33.70	33.71	33.64	33.61	33.61			
15		33.60	33.55	33.57	33.66	33.71	33.73	33.73	33.70	33.70	33.62	33.69	33.57			
16		33.55	33.50	33.58	33.62	33.75	33.71	33.71	33.73	33.74	33.62	33.64	33.64			
17		33.57	33.51	33.51	33.58	33.64	33.73	33.74	33.77	33.77	33.68	33.55	33.53			
18		33.55	33.47	33.58	33.64	33.75	33.73	33.69	33.78	33.75	33.70	33.64	33.54			
19		33.54	33.50	33.53	33.67	33.77	33.71	33.73	33.68	33.68	33.66	33.61	33.54			
20		33.49	33.57	33.64	33.68	33.73	33.69	33.68	33.69	33.70	33.64	33.62	33.57			
21		33.62	33.55	33.57	33.68	33.71	33.62	33.69	33.68	33.70	33.66	33.64	33.68			
22		33.69	33.54	33.53	33.69	33.73	33.62	33.74	33.68	33.66	33.69	33.62	33.39			
23		33.60	33.54	33.46	33.68	33.68	33.61	33.68	33.68	33.67	33.64	33.70	33.30			
24		33.64	33.57	33.46	33.70	33.71	33.60	33.75	33.68	33.64	33.62	33.60	33.21			
25		33.57	33.42	33.48	33.66	33.70	33.64	33.73	33.68	33.76	33.69	33.58	33.35			
26		33.62	33.42	33.47	33.71	33.71	33.64	33.71	33.69	33.69	33.64	33.62	33.42			
27		33.57	33.42	33.48	33.69	33.70	33.67	33.69	33.73	33.74	33.73	33.60	33.46			
28		33.51	33.39	33.54	33.67	33.68	33.69	33.73	33.71	33.64	33.58	33.60	33.49			
29		33.57		33.69	33.66	33.67	33.68	33.66	33.75	33.62	33.64	33.61	33.47			
30		33.62		33.73	33.58	33.67	33.69	33.61	33.78	33.67	33.60	33.54	33.49			
31		33.61		33.67		33.68		33.71	33.80		33.57		33.51			
MEAN		33.59	33.53	33.50	33.64	33.71	33.69	33.71	33.71	33.71	33.65	33.60	33.53	33.63		
MAX.		33.69	33.68	33.73	33.71	33.77	33.75	33.78	33.80	33.81	33.73	33.70	33.68		33.81	
MIN.		33.49	33.39	33.14	33.54	33.64	33.60	33.61	33.64	33.62	33.57	33.51	33.21			33.14
RANGE		.20	.29	.59	.17	.13	.15	.17	.16	.19	.16	.19	.47			
STD.DEV.		.05	.07	.13	.04	.04	.04	.04	.04	.04	.04	.05	.11			

SEA WATER SUMMARY: TEMPERATURES — STATION: SCRIPPS PIER : LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE	JULY.	AUG.	SEPT	OCT	NOV	DEC.	MEAN	MAX.	MIN
1	1946	14.95	12.78	13.65	14.55	18.11	18.13	20.27	20.07	20.23	19.15	17.48	15.18			
2		14.88	12.82	13.73	14.42	18.13	18.15	20.01	21.04	20.99	19.55	17.05	14.70			
3		14.93	12.96	13.66	14.53	18.68	18.63	19.63	21.33	21.30	19.31	15.72	15.02			
4		14.18	12.75	13.27	15.18	18.03	18.23	20.30	21.13	21.49	19.59	16.08	15.05			
5		14.91	12.78	12.91	14.79	18.44	18.11	19.94	20.25	21.35	19.35	16.25	15.01			
6		14.11	12.89	13.96	15.24	18.08	17.83	20.20	21.26	20.90	18.11	16.10	15.53			
7		12.73	13.29	13.20	15.22	17.86	17.31	20.62	20.29	18.65	18.96	16.20	14.37			
8		12.93	13.20	13.58	15.44	18.35	18.65	20.75	20.60	20.05	18.85	15.87	14.51			
9		11.54	12.93	13.44	15.41	18.17	19.03	20.94	20.65	19.40	18.38	15.09	14.52			
10		11.69	13.04	14.09	15.61	18.03	19.39	20.97	20.43	19.06	18.36	15.59	14.34			
11		11.82	13.31	14.21	15.90	18.02	19.73	21.59	21.03	19.03	19.61	16.08	14.14			
12		11.69	12.02	12.92	15.78	17.52	19.55	21.91	22.69	19.51	19.23	15.63	14.41			
13		11.78	12.68	13.27	15.93	17.81	19.07	22.01	23.41	19.11	19.41	15.63	14.51			
14		11.23	12.97	13.12	16.60	17.27	19.65	21.73	23.53	19.76	18.85	15.73	14.28			
15		12.11	12.72	13.23	15.92	17.34	19.81	21.61	23.01	19.67	19.25	15.46	14.34			
16		12.54	13.26	13.39	16.44	17.21	20.13	18.40	22.68	19.97	18.60	15.42	14.32			
17		12.70	12.32	13.75	16.20	17.09	20.65	16.25	19.93	16.12	17.11	15.33	13.81			
18		12.79	12.76	13.64	16.02	17.44	20.29	20.03	19.74	17.57	17.85	15.33	13.97			
19		12.98	12.93	13.61	16.28	17.14	20.40	20.80	18.89	17.85	18.05	15.09	14.03			
20		13.09	12.96	13.32	16.30	17.12	20.19	20.84	21.65	18.51	18.22	15.52	14.20			
21		12.83	12.41	13.27	16.64	17.05	20.31	20.99	21.73	19.01	18.32	15.53	14.13			
22		13.02	12.19	13.38	16.79	17.03	20.50	20.75	21.64	19.04	17.80	15.85	14.11			
23		13.19	12.37	13.74	16.94	17.35	20.99	21.04	21.93	19.00	17.84	15.62	14.51			
24		13.22	12.57	13.37	17.24	17.28	20.28	21.00	22.12	19.10	18.07	15.52	14.53			
25		13.20	12.45	13.61	17.62	16.83	20.45	19.83	21.74	18.51	17.95	15.32	14.52			
26		13.24	12.57	14.34	17.15	17.57	20.79	20.94	21.41	18.10	18.17	15.20	14.42			
27		13.08	12.53	14.27	17.35	17.71	20.30	20.46	20.99	18.13	18.41	15.24	14.76			
28		13.00	13.54	14.32	17.60	16.84	20.51	20.91	20.56	16.51	18.10	15.33	14.34			
29		13.64		14.29	17.44	17.55	20.54	18.85	20.42	18.33	17.51	15.42	14.11			
30		12.92		14.32	17.95	17.51	21.04	20.11	20.60	19.49	17.79	15.18	14.14			
31		12.93		14.18		18.10		18.50	20.81		17.50		13.91			
MEAN		13.03	12.78	13.63	16.17	17.63	19.62	20.39	21.21	18.89	18.49	15.70	14.46	16.83		
MAX.		14.95	13.54	14.34	17.95	18.68	21.04	22.01	23.53	21.49	19.61	17.48	15.59		23.53	
MIN.		11.23	12.02	12.91	14.53	16.83	17.31	16.25	18.89	14.67	17.11	15.09	13.81			11.23
RANGE		3.72	1.52	1.43	3.42	1.85	3.73	5.76	4.64	6.82	2.50	2.39	1.72			
STD.DEV.		.96	.37	.38	.89	.47	.94	1.26	1.10	1.80	.62	.59	.40			

SEA WATER SUMMARY: Salinities Daily Surface

STATION: Scripps Pier: La Jolla, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX	MIN.
1	1946	33.47	33.49	33.67	33.51	33.69	33.67	33.77	33.70	33.67	33.69	33.62	33.58			
2		33.57	33.53	33.54	33.58	33.67	33.71	33.77	33.60	33.62	33.68	33.66	33.61			
3		33.60	33.51	33.53	33.64	33.68	33.66	33.73	33.67	33.67	33.66	33.62	33.62			
4		33.60	33.48	33.54	33.58	33.67	33.71	33.73	33.74	33.74	33.60	33.68	33.64			
5		33.61	33.53	33.57	33.67	33.60	33.71	33.77	33.66	33.66	33.68	33.58	33.60			
6		33.60	33.62	33.58	33.70	33.62	33.73	33.77	33.61	33.64	33.66	33.67	33.64			
7		33.62	33.69	33.60	33.68	33.62	33.71	33.73	33.55	33.61	33.62	33.53	33.68			
8		33.64	33.60	33.54	33.67	33.61	33.70	33.68	33.57	33.69	33.64	33.58	33.67			
9		33.55	33.53	33.66	33.62	33.64	33.74	33.69	33.61	33.62	33.64	33.64	33.67			
10		33.57	33.49	33.61	33.68	33.60	33.77	33.71	33.64	33.62	33.61	33.57	33.60			
11		33.62	33.54	33.57	33.58	33.64	33.75	33.81	33.67	33.66	33.60	33.66	33.53			
12		33.60	33.55	33.55	33.69	33.62	33.74	33.74	33.70	33.68	33.64	33.62	33.55			
13		33.57	33.54	33.57	33.68	33.68	33.68	33.74	33.71	33.57	33.61	33.42	33.68			
14		33.64	33.55	33.61	33.67	33.62	33.69	33.77	33.67	33.62	33.66	33.41	33.67			
15		33.58	33.64	33.50	33.68	33.71	33.77	33.75	33.68	33.54	33.69	33.55	33.61			
16		33.60	33.57	33.54	33.69	33.64	33.75	33.74	33.71	33.57	33.64	33.61	33.61			
17		33.49	33.61	33.50	33.60	33.67	33.75	33.75	33.66	33.61	33.61	33.58	33.67			
18		33.55	33.61	33.57	33.64	33.62	33.78	33.69	33.67	33.64	33.60	33.57	33.67			
19		33.57	33.62	33.61	33.70	33.60	33.77	33.64	33.62	33.69	33.58	33.58	33.71			
20		33.64	33.58	33.61	33.73	33.62	33.77	33.71	33.61	33.60	33.57	33.60	33.57			
21		33.55	33.61	33.57	33.67	33.68	33.75	33.74	33.69	33.57	33.61	33.54	33.62			
22		33.64	33.53	33.60	33.62	33.66	33.73	33.67	33.68	33.64	33.68	33.62	33.55			
23		33.50	33.51	33.61	33.66	33.67	33.71	33.66	33.70	33.64	33.64	33.61	33.49			
24		33.49	33.57	33.54	33.68	33.71	33.73	33.64	33.68	33.60	33.71	33.66	33.57			
25		33.67	33.57	33.62	33.75	33.71	33.70	33.62	33.70	33.60	33.64	33.60	33.67			
26		33.61	33.54	33.62	33.68	33.75	33.71	33.57	33.61	33.58	33.69	33.48	33.42			
27		33.60	33.55	33.55	33.68	33.75	33.70	33.67	33.57	33.62	33.64	33.48	33.51			
28		33.53	33.60	33.55	33.66	33.75	33.74	33.60	33.68	33.62	33.63	33.58	33.57			
29		33.58		33.50	33.62	33.70	33.73	33.69	33.64	33.62	33.60	33.55	33.67			
30		33.58		33.50	33.66	33.77	33.73	33.62	33.58	33.66	33.61	33.59	33.68			
31		33.56		33.39		33.74		33.66	33.61		33.60		33.66			
MEAN		33.58	33.56	33.57	33.66	33.67	33.73	33.70	33.65	33.63	33.64	33.58	33.61	33.63		
MAX.		33.67	33.69	33.67	33.75	33.77	33.78	33.81	33.74	33.74	33.71	33.68	33.71		33.81	
MIN.		33.47	33.48	33.39	33.51	33.60	33.66	33.57	33.55	33.54	33.57	33.41	33.42			33.39
RANGE		.20	.21	.28	.24	.17	.12	.24	.19	.20	.14	.27	.29			
STD.DEV.		.05	.05	.06	.05	.04	.03	.06	.04	.04	.03	.07	.06			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC	MEAN	MAX	MIN.
1	1947	13.51	13.10	14.09	16.53	17.03	19.09	20.25	21.44	18.35	19.89	19.11	15.24			
2		13.02	13.29	14.51	16.51	17.15	19.44	20.05	22.54	18.41	19.70	18.23	15.43			
3		13.40	13.22	14.19	16.14	18.03	19.13	19.58	22.63	18.15	19.73	17.21	14.99			
4		13.31	13.42	14.73	15.65	17.64	18.05	20.40	23.01	18.35	19.45	17.01	14.70			
5		13.80	13.33	14.44	14.59	17.55	17.66	19.80	23.11	17.97	19.45	16.44	14.75			
6		13.72	13.82	14.13	14.41	18.01	18.85	19.74	22.90	17.83	19.41	16.14	15.03			
7		13.69	14.23	14.19	14.59	17.89	19.39	19.55	22.64	19.15	19.24	15.84	15.10			
8		13.54	13.64	14.07	15.01	17.92	19.13	19.41	23.24	19.08	19.33	15.63	14.93			
9		13.53	13.99	14.01	14.64	17.51	15.55	19.33	23.55	19.03	18.62	15.22	14.43			
10		13.67	14.03	14.62	13.90	17.55	17.25	17.57	23.42	19.07	19.13	15.21	14.52			
11		13.42	14.24	14.70	14.82	16.63	17.52	16.16	23.27	19.55	19.06	15.03	13.77			
12		13.91	13.65	15.05	14.28	17.58	17.99	17.81	18.90	19.73	17.85	15.33	14.32			
13		14.11	13.08	14.22	14.73	17.64	18.65	18.89	19.94	19.36	18.48	15.33	13.63			
14		13.37	13.72	14.19	13.94	17.41	19.20	16.61	19.15	19.35	17.46	15.01	14.01			
15		13.40	13.77	14.63	15.01	17.65	19.13	17.63	17.65	20.15	17.82	15.70	14.01			
16		13.42	14.02	14.51	16.33	18.69	19.04	17.71	20.45	20.69	18.49	15.81	13.92			
17		13.32	13.90	14.87	16.43	18.25	19.12	18.23	20.42	20.51	18.21	15.57	14.02			
18		13.39	13.76	14.79	16.11	18.25	19.55	19.64	17.81	19.75	18.12	15.97	13.99			
19		13.32	13.53	14.73	16.38	18.14	19.76	19.83	16.64	16.75	18.55	16.02	13.82			
20		13.20	14.14	14.93	16.83	18.43	19.94	20.75	17.27	19.16	18.62	15.64	13.63			
21		13.26	14.03	14.47	16.87	18.64	19.83	20.29	18.05	20.07	18.84	15.53	13.91			
22		13.43	14.35	14.89	16.80	18.49	20.16	19.65	18.09	20.34	18.40	15.55	13.49			
23		13.46	14.18	15.24	16.92	18.17	20.53	19.21	17.71	21.06	18.43	15.13	13.22			
24		13.30	14.39	15.35	17.31	18.55	20.45	17.73	18.09	21.50	18.44	14.83	13.30			
25		13.53	14.32	15.56	16.76	18.71	20.24	19.29	19.12	21.39	18.54	14.99	13.63			
26		13.67	14.14	15.29	16.72	18.54	20.03	18.95	18.50	21.31	18.73	15.12	13.87			
27		13.53	14.21	15.81	16.31	18.33	20.45	19.08	18.52	21.09	18.81	15.22	13.99			
28		13.80	14.52	16.11	15.53	18.51	19.04	20.32	18.71	20.24	19.01	15.53	13.90			
29		13.92		16.09	16.30	18.44	19.65	21.31	19.31	19.93	18.74	15.49	14.13			
30		13.19		16.41	16.43	18.36	20.16	22.24	17.65	19.44	18.95	15.32	13.57			
31		12.88		16.25		18.67		21.06	16.55		18.64		12.32			
MEAN		13.45	13.86	14.87	15.76	17.99	19.13	19.29	20.01	19.56	18.78	15.81	14.12	16.88		
MAX.		14.11	14.52	16.41	17.31	18.71	20.53	22.24	23.55	21.50	19.89	19.11	15.43		23.55	
MIN.		12.88	13.08	14.01	13.90	16.63	15.55	16.16	16.55	16.75	17.46	14.83	12.32			12.32
RANGE		1.23	1.44	2.40	3.41	2.08	4.98	6.08	7.00	4.75	2.43	4.28	3.11			
STD.DEV.		.30	.38	.62	.87	.50	1.12	1.46	1.87	1.14	.59	1.03	.70			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1941	33.61	33.58	33.57	33.61	33.57	33.67	33.66	33.68	33.60	33.62	33.62	33.62			
2		33.64	33.61	33.57	33.57	33.57	33.66	33.58	33.68	33.61	33.64	33.62	33.64			
3		33.64	33.58	33.58	33.60	33.60	33.62	33.57	33.73	33.60	33.66	33.57	33.61			
4		33.67	33.53	33.66	33.60	33.61	33.61	33.68	33.75	33.58	33.57	33.58	33.46			
5		33.57	33.55	33.64	33.62	33.58	33.57	33.58	33.70	33.66	33.61	33.60	33.37			
6		33.58	33.58	33.61	33.64	33.68	33.57	33.57	33.73	33.61	33.57	33.57	33.51			
7		33.60	33.57	33.64	33.69	33.73	33.70	33.60	33.71	33.67	33.55	33.60	33.51			
8		33.57	33.64	33.64	33.67	33.71	33.66	33.60	33.74	33.62	33.55	33.60	33.57			
9		33.62	33.54	33.64	33.57	33.68	33.49	33.62	33.67	33.62	33.54	33.62	33.58			
10		33.64	33.57	33.62	33.62	33.77	33.58	33.58	33.68	33.60	33.66	33.54	33.55			
11		33.66	33.51	33.58	33.61	33.77	33.61	33.67	33.70	33.66	33.64	33.62	33.58			
12		33.64	33.51	33.57	33.66	33.68	33.49	33.60	33.70	33.66	33.62	33.66	33.54			
13		33.57	33.54	33.58	33.57	33.69	33.46	33.62	33.62	33.60	33.67	33.64	33.57			
14		33.68	33.55	33.66	33.56	33.69	33.47	33.58	33.67	33.67	33.58	33.57	33.53			
15		33.55	33.50	33.61	33.64	33.71	33.53	33.60	33.66	33.70	33.60	33.64	33.51			
16		33.49	33.57	33.61	33.64	33.64	33.46	33.64	33.64	33.62	33.57	33.57	33.51			
17		33.64	33.53	33.64	33.75	33.67	33.60	33.55	33.50	33.64	33.60	33.60	33.44			
18		33.60	33.61	33.57	33.74	33.68	33.64	33.60	33.54	33.61	33.66	33.62	33.47			
19		33.60	33.57	33.55	33.58	33.73	33.61	33.61	33.54	33.57	33.69	33.53	33.53			
20		33.55	33.57	33.58	33.61	33.71	33.51	33.66	33.53	33.68	33.67	33.58	33.44			
21		33.51	33.57	33.62	33.60	33.71	33.61	33.66	33.55	33.64	33.61	33.58	33.50			
22		33.57	33.57	33.62	33.58	33.74	33.55	33.60	33.60	33.61	33.67	33.61	33.42			
23		33.58	33.54	33.60	33.60	33.77	33.57	33.57	33.54	33.57	33.64	33.62	33.51			
24		33.61	33.51	33.62	33.64	33.68	33.55	33.66	33.64	33.66	33.60	33.62	33.53			
25		33.60	33.46	33.61	33.64	33.68	33.53	33.64	33.66	33.66	33.60	33.58	33.48			
26		33.60	33.51	33.60	33.66	33.77	33.61	33.62	33.67	33.61	33.58	33.64	33.49			
27		33.55	33.54	33.67	33.69	33.77	33.62	33.68	33.66	33.61	33.61	33.62	33.53			
28		33.54	33.55	33.69	33.74	33.73	33.58	33.71	33.66	33.64	33.61	33.61	33.53			
29		33.51		33.61	33.70	33.77	33.66	33.60	33.68	33.64	33.58	33.57	33.57			
30		33.47		33.61	33.69	33.70	33.69	33.61	33.57	33.62	33.57	33.57	33.57			
31		33.55		33.55		33.77		33.64	33.62		33.58		33.54			
MEAN		33.59	33.55	33.61	33.64	33.70	33.58	33.62	33.65	33.63	33.61	33.60	33.52	33.60		
MAX.		33.68	33.64	33.69	33.75	33.77	33.70	33.71	33.75	33.70	33.69	33.66	33.64		33.77	
MIN.		33.47	33.46	33.55	33.55	33.57	33.46	33.55	33.50	33.57	33.54	33.53	33.37			33.37
RANGE		.21	.18	.14	.20	.20	.24	.16	.25	.13	.15	.13	.27			
STD.DEV.		.05	.04	.04	.05	.05	.06	.04	.06	.03	.04	.03	.06			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX	MIN
1	1948	12.78	13.28	12.60	13.79	15.26	17.71	18.31	20.06	21.04	16.24	16.05	13.99			
2		13.12	13.62	12.77	14.40	14.35	17.06	18.65	19.54	20.54	16.97	16.37	14.22			
3		13.58	13.08	13.46	13.93	15.24	13.82	18.90	19.11	20.87	16.44	16.44	14.03			
4		13.54	12.98	13.12	13.91	16.15	16.02	19.11	19.59	20.62	15.60	16.41	13.87			
5		13.29	13.34	13.42	13.52	16.09	15.69	19.31	19.66	20.42	16.10	16.15	13.00			
6		13.39	13.38	13.12	14.46	16.83	16.53	19.39	17.87	20.35	16.79	15.40	13.42			
7		13.41	13.30	12.88	14.42	16.84	16.53	19.49	18.76	20.07	16.80	16.04	14.10			
8		13.30	13.07	13.03	14.97	15.85	17.25	17.25	19.05	20.43	16.62	16.16	14.13			
9		13.31	13.31	13.69	14.82	16.02	15.53	17.15	19.15	20.22	17.62	16.02	14.29			
10		13.53	13.59	13.57	15.21	16.67	16.09	17.01	19.83	20.05	17.92	15.84	14.33			
11		13.61	13.17	13.22	16.04	16.61	16.40	15.98	20.14	18.62	17.69	15.65	14.42			
12		13.73	12.74	13.40	14.02	17.51	15.29	17.45	20.36	19.40	17.01	15.86	14.39			
13		13.54	12.54	13.81	13.83	17.34	16.54	17.51	19.99	19.55	17.36	15.97	14.38			
14		13.65	12.65	13.69	14.45	17.31	17.11	18.42	20.22	20.07	17.24	16.12	14.59			
15		13.62	12.88	13.62	14.73	16.95	17.59	18.56	19.50	19.56	17.69	15.84	14.01			
16		13.51	12.73	13.69	13.12	18.25	17.66	18.66	20.96	20.16	17.17	15.53	13.82			
17		13.81	13.03	13.72	15.14	19.13	18.85	18.53	20.97	20.65	17.04	15.15	13.92			
18		14.01	13.08	13.43	15.23	18.14	17.94	18.77	19.74	20.39	17.04	15.09	13.91			
19		13.62	13.41	13.90	14.49	17.18	18.30	18.56	19.21	19.36	17.19	15.22	13.87			
20		13.22	13.73	13.79	14.96	17.22	18.44	18.35	18.82	19.64	17.72	15.11	13.52			
21		13.20	13.44	13.00	14.99	17.15	18.23	18.40	19.67	19.97	17.43	15.20	13.16			
22		13.93	13.57	13.63	15.44	16.89	17.75	18.92	20.05	19.95	17.03	15.05	13.54			
23		14.04	13.04	13.99	15.63	16.94	18.11	19.37	20.34	16.95	16.86	14.82	13.03			
24		14.09	12.51	14.22	15.34	17.01	18.39	19.71	20.03	17.56	16.85	14.79	12.96			
25		14.27	12.72	12.91	15.32	16.79	18.33	18.50	20.15	16.96	16.84	14.77	13.21			
26		14.22	13.29	12.82	15.88	17.03	18.32	16.74	20.54	17.75	16.44	15.19	13.05			
27		13.69	13.18	13.20	15.73	17.25	18.00	18.65	20.65	18.05	16.64	14.95	13.21			
28		13.38	13.31	13.63	15.80	17.45	18.06	19.33	20.55	17.86	16.51	15.11	13.22			
29		13.30	13.00	13.34	15.38	17.44	18.15	18.75	20.56	17.31	16.75	15.03	13.03			
30		13.18		13.48	15.02	17.13	18.04	19.05	19.76	15.09	16.43	14.83	13.34			
31		13.42		13.53		18.09		19.75	20.44		15.74		13.40			
MEAN		13.56	13.14	13.41	14.80	16.91	17.26	18.47	19.86	19.31	16.90	15.56	13.72	16.08		
MAX.		14.27	13.73	14.22	16.04	19.13	18.85	19.75	20.97	21.04	17.92	16.64	14.59		21.04	
MIN.		12.78	12.51	12.60	13.12	14.35	13.82	15.98	17.87	15.09	15.60	14.77	12.96			12.51
RANGE		1.49	1.22	1.62	2.92	4.78	5.03	3.77	3.10	5.95	2.32	1.87	1.63			
STD.DEV.		.35	.32	.38	.72	1.06	1.12	.91	.72	1.37	.58	.48	.41			

SEA WATER SUMMARY: SALINITIES STATION: SCRIPPS PIER: LA JOLLA, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1948	33.55	33.61	33.57	33.57	33.62	33.66	33.61	33.62	33.75	33.61	33.61	33.53			
2		33.60	33.60	33.58	33.57	33.57	33.61	33.60	33.64	33.78	33.54	33.54	33.50			
3		33.57	33.64	33.58	33.58	33.68	33.57	33.70	33.64	33.69	33.62	33.64	33.57			
4		33.60	33.61	33.64	33.57	33.67	33.57	33.66	33.64	33.67	33.57	33.57	33.57			
5		33.58	33.51	33.64	33.50	33.61	33.67	33.69	33.70	33.66	33.55	33.60	33.60			
6		33.57	33.35	33.60	33.67	33.62	33.62	33.55	33.60	33.67	33.57	33.66	33.61			
7		33.61	33.48	33.58	33.55	33.60	33.71	33.57	33.58	33.68	33.60	33.67	33.60			
8		33.62	33.55	33.50	33.60	33.70	33.66	33.62	33.70	33.60	33.60	33.61	33.61			
9		33.58	33.54	33.55	33.66	33.62	33.66	33.57	33.69	33.69	33.61	33.62	33.64			
10		33.60	33.64	33.58	33.62	33.68	33.60	33.61	33.64	33.66	33.64	33.67	33.55			
11		33.58	33.53	33.66	33.51	33.67	33.57	33.69	33.69	33.64	33.58	33.62	33.57			
12		33.60	33.51	33.58	33.53	33.62	33.68	33.68	33.68	33.67	33.61	33.62	33.58			
13		33.60	33.64	33.67	33.64	33.64	33.61	33.57	33.61	33.64	33.64	33.58	33.66			
14		33.58	33.64	33.61	33.54	33.51	33.64	33.55	33.61	33.68	33.57	33.57	33.58			
15		33.57	33.60	33.60	33.60	33.62	33.66	33.57	33.66	33.73	33.62	33.64	33.66			
16		33.62	33.60	33.57	33.57	33.60	33.71	33.64	33.64	33.67	33.62	33.57	33.62			
17		33.55	33.57	33.61	33.57	33.67	33.57	33.61	33.69	33.66	33.57	33.47	33.54			
18		33.61	33.57	33.55	33.57	33.68	33.61	33.62	33.62	33.62	33.58	33.49	33.54			
19		33.53	33.51	33.58	33.50	33.70	33.61	33.62	33.62	33.62	33.50	33.46	33.51			
20		33.49	33.46	33.60	33.64	33.71	33.58	33.71	33.54	33.61	33.54	33.41	33.67			
21		33.60	33.58	33.57	33.64	33.57	33.64	33.61	33.64	33.64	33.61	33.39	33.60			
22		33.51	33.61	33.62	33.67	33.57	33.57	33.54	33.58	33.68	33.51	33.46	33.60			
23		33.57	33.66	33.57	33.60	33.61	33.71	33.54	33.57	33.60	33.50	33.47	33.54			
24		33.57	33.66	33.57	33.60	33.66	33.55	33.57	33.60	33.66	33.54	33.46	33.55			
25		33.57	33.58	33.51	33.64	33.66	33.68	33.55	33.60	33.66	33.62	33.60	33.57			
26		33.58	33.57	33.66	33.57	33.66	33.64	33.54	33.60	33.68	33.70	33.53	33.55			
27		33.57	33.64	33.62	33.48	33.74	33.51	33.54	33.66	33.60	33.57	33.55	33.51			
28		33.58	33.58	33.53	33.54	33.73	33.57	33.54	33.60	33.67	33.57	33.47	33.51			
29		33.57	33.55	33.60	33.61	33.67	33.64	33.69	33.57	33.57	33.54	33.61	33.66			
30		33.61		33.55	33.62	33.74	33.55	33.69	33.60	33.58	33.64	33.55	33.60			
31		33.64		33.53		33.78		33.53	33.69		33.60		33.60			
MEAN		33.58	33.57	33.59	33.58	33.65	33.62	33.61	33.63	33.66	33.59	33.56	33.58	33.60		
MAX.		33.64	33.66	33.67	33.67	33.78	33.71	33.71	33.70	33.78	33.70	33.67	33.67		33.78	
MIN.		33.49	33.35	33.50	33.48	33.51	33.51	33.53	33.54	33.57	33.50	33.39	33.50			33.35
RANGE		.15	.31	.17	.19	.27	.20	.18	.16	.21	.20	.28	.17			
STD.DEV.		.04	.07	.04	.05	.06	.05	.05	.04	.05	.05	.07	.04			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE.	JULY.	AUG	SEPT.	OCT	NOV	DEC	MEAN	MAX	MIN.
1	1949	13.00	12.21	13.10	13.46	16.73	17.59	19.56	21.15	20.86	18.54	15.36	16.02			
2		13.32	12.62	13.52	13.78	16.61	18.15	19.21	21.47	20.74	18.89	15.23	15.53			
3		12.31	12.51	13.22	13.48	16.74	18.81	19.83	22.05	20.59	18.86	16.75	15.10			
4		11.57	12.38	13.56	13.87	16.39	19.25	19.57	21.79	21.41	18.91	15.77	15.43			
5		11.78	12.68	13.75	14.48	16.85	20.20	19.56	21.15	20.75	18.42	15.87	15.43			
6		12.10	12.56	13.64	13.97	17.24	19.95	19.69	20.71	20.51	18.22	16.51	15.14			
7		12.08	12.86	13.59	13.73	17.89	19.95	19.86	20.62	18.23	18.66	17.15	15.11			
8		12.20	12.37	13.82	13.82	18.43	20.39	20.30	20.80	21.60	18.04	16.31	15.02			
9		12.46	12.11	13.29	13.73	17.95	19.74	20.29	21.06	22.46	16.54	15.80	15.02			
10		11.62	12.29	12.66	13.92	17.69	20.44	20.06	20.91	2226	17.22	15.53	14.03			
11		11.33	12.18	13.92	14.41	17.71	20.16	20.39	21.00	21.63	17.65	15.91	14.29			
12		11.42	1226	12.72	12.79	17.84	19.27	19.86	20.74	20.74	18.51	15.31	13.46			
13		12.22	11.94	13.61	13.06	17.54	19.65	19.91	20.45	19.95	18.44	15.32	13.17			
14		11.72	11.55	13.78	13.73	17.51	19.78	20.20	20.07	19.95	18.10	15.61	13.32			
15		12.40	11.72	13.83	14.38	17.13	19.84	18.36	20.01	19.93	1843	15.81	13.23			
16		12.52	11.92	13.56	14.17	16.94	19.56	19.67	20.55	20.26	18.12	15.65	14.11			
17		12.02	12.72	13.59	14.72	16.28	19.56	19.60	20.24	20.15	17.90	15.32	14.10			
18		12.04	12.86	13.63	1430	16.05	19.69	19.71	20.57	20.19	17.26	16.14	14.01			
19		12.38	13.18	12.84	14.27	15.87	20.16	19.69	20.39	20.91	1603	15.93	14.52			
20		12.98	13.08	13.87	13.22	16.24	19.01	20.11	20.54	20.54	15.43	16.35	13.99			
21		12.62	13.14	13.11	13.89	16.84	19.25	20.54	21.24	20.34	15.59	15.12	13.73			
22		12.65	13.23	13.52	14.17	17.35	19.63	21.17	21.76	18.96	16.20	15.82	13.75			
23		12.81	13.38	13.23	15.20	16.83	19.52	20.91	20.99	19.01	17.00	15.75	1334			
24		12.41	13.29	13.53	14.88	17.65	19.04	21.31	20.45	20.24	16.41	15.64	13.41			
25		12.02	13.38	13.02	15.74	18.29	1903	21.65	20.07	19.54	16.11	15.78	13.69			
26		12.10	13.53	13.26	15.60	18.34	19.15	20.80	20.64	19.15	16.84	15.80	13.60			
27		12.52	13.43	13.42	15.94	18.33	19.51	20.49	20.31	19.24	16.83	15.75	13.53			
28		12.38	13.08	14.02	16.24	18.39	19.62	20.65	21.65	18.84	16.76	15.82	13.54			
29		12.46		1321	16.71	18.55	19.69	20.85	21.33	18.34	16.50	16.14	13.57			
30		12.62		12.91	16.25	19.29	20.09	20.62	20.92	18.43	16.72	15.88	13.40			
31		12.56		13.31		18.33		20.35	20.99		16.56		13.48			
MEAN		12.28	12.66	13.42	14.40	17.41	19.52	20.15	20.86	20.19	17.41	15.81	14.16	16.32		
MAX.		13.32	13.53	14.02	16.71	19.29	20.44	21.65	22.05	22.46	18.91	17.15	16.02		22.46	
MIN.		11.33	11.55	12.66	12.79	15.87	17.59	18.36	20.01	18.23	15.43	15.12	13.17			11.33
RANGE		1.99	1.98	1.36	3.92	3.42	2.85	3.29	2.04	4.23	3.48	2.03	2.85			
STD.DEV.		.48	.51	.35	.97	.80	.70	.73	.51	1.11	.92	.47	.70			

SEA WATER SUMMARY: SALINITIES STATION: SCRIPPS PIER : LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1949	33.61	33.57	33.54	33.54	33.68	33.70	33.70	33.74	33.71	33.62	33.60	33.58			
2		33.62	33.55	33.62	33.53	33.67	33.61	33.70	33.69	33.64	33.60	33.60	33.55			
3		33.58	33.55	33.60	33.54	33.64	33.64	33.71	33.67	33.66	33.58	33.64	33.58			
4		33.51	33.50	33.53	33.57	33.68	33.66	33.73	33.66	33.69	33.66	33.55	33.55			
5		33.57	33.50	33.60	33.61	33.60	33.66	33.73	33.75	33.73	33.60	33.57	33.66			
6		33.50	33.48	33.61	33.60	33.61	33.68	33.66	33.70	33.66	33.64	33.57	33.53			
7		33.61	33.53	33.51	33.61	33.62	33.67	33.68	33.74	33.51	33.68	33.47	33.60			
8		33.60	33.49	33.55	33.67	33.60	33.67	33.73	33.73	33.73	33.62	33.57	33.57			
9		33.60	33.46	33.54	33.62	33.64	33.53	33.69	33.69	33.67	33.67	33.61	33.58			
10		33.67	33.54	33.49	33.67	33.62	33.51	33.75	33.62	33.70	33.64	33.53	33.48			
11		33.57	33.51	33.61	33.57	33.66	33.58	33.74	33.58	33.75	33.60	33.58	33.53			
12		33.39	33.50	33.57	33.58	33.67	33.64	33.70	33.68	33.68	33.66	33.60	33.57			
13		33.22	33.55	33.54	33.64	33.64	33.68	33.70	33.73	33.68	33.64	33.67	33.60			
14		33.21	33.57	33.42	33.62	33.68	33.68	33.69	33.67	33.68	33.54	33.67	33.55			
15		33.42	33.55	33.64	33.69	33.69	33.69	33.69	33.62	33.66	33.64	33.61	33.55			
16		33.47	33.57	33.57	33.68	33.62	33.69	33.75	33.67	33.58	33.62	33.61	33.51			
17		33.49	33.53	33.57	33.71	33.60	33.67	33.69	33.66	33.68	33.58	33.61	33.57			
18		33.57	33.61	33.62	33.64	33.61	33.70	33.58	33.69	33.64	33.58	33.57	33.57			
19		33.49	33.57	33.57	33.62	33.66	33.71	33.60	33.64	33.62	33.54	33.62	33.55			
20		33.49	33.50	33.58	33.69	33.58	33.69	33.66	33.70	33.64	33.62	33.55	33.57			
21		33.48	33.66	33.57	33.55	33.61	33.66	33.70	33.74	33.70	33.60	33.54	33.54			
22		33.55	33.55	33.62	33.55	33.57	33.66	33.66	33.69	33.57	33.62	33.64	33.60			
23		33.53	33.57	33.49	33.69	33.64	33.68	33.71	33.67	33.57	33.69	33.55	33.58			
24		33.58	33.57	33.57	33.66	33.62	33.68	33.73	33.61	33.62	33.60	33.57	33.51			
25		33.57	33.35	33.57	33.64	33.61	33.61	33.71	33.62	33.64	33.64	33.57	33.51			
26		33.60	33.46	33.62	33.60	33.66	33.69	33.67	33.69	33.64	33.57	33.64	33.49			
27		33.68	33.48	33.58	33.58	33.64	33.70	33.66	33.67	33.57	33.67	33.55	33.51			
28		33.61	33.39	33.66	33.61	33.60	33.69	33.64	33.68	33.62	33.70	33.62	33.48			
29		33.53		33.58	33.62	33.66	33.68	33.70	33.68	33.66	33.61	33.51	33.55			
30		33.60		33.57	33.64	33.70	33.73	33.69	33.68	33.62	33.67	33.60	3454			
31		33.60		33.57		33.67		33.68	33.67		33.57		33.44			
MEAN		33.53	33.52	33.57	33.62	33.64	33.66	33.69	33.68	33.65	33.62	33.59	33.55	33.61		
MAX.		33.68	33.66	33.66	33.71	33.70	33.73	33.75	33.75	33.75	33.70	33.67	33.66		33.75	
MIN.		33.21	33.35	33.42	33.53	33.57	33.51	33.58	33.58	33.51	33.54	33.47	33.44			33.21
RANGE		.47	.31	.24	.18	.13	.22	.17	.17	.24	.16	.20	.22			
STD.DEV.		.12	.07	.05	.04	.03	.05	.04	.05	.04	.04	.05	.05			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	13.62	11.90	13.62	14.27	16.48	16.33	18.94	21.11	19.54	18.64	16.65	15.01			
2		13.53	12.12	13.60	15.42	16.79	16.42	19.45	20.79	19.35	18.65	17.03	15.11			
3		13.20	12.26	13.62	14.92	16.50	16.50	19.25	20.45	19.39	18.84	16.47	15.21			
4		12.71	12.58	13.73	15.09	15.94	16.95	19.69	19.94	19.41	19.56	16.74	15.41			
5		12.87	12.88	13.62	14.97	15.27	16.56	20.41	19.39	19.51	19.04	18.03	15.82			
6		12.73	13.31	13.69	15.03	14.80	16.74	20.49	19.65	19.50	18.91	18.14	14.91			
7		13.08	13.42	13.60	15.39	14.98	16.48	19.72	19.15	19.45	18.95	18.17	15.41			
8		13.01	12.71	13.82	14.94	14.31	16.10	20.44	19.13	19.63	19.25	17.85	15.52			
9		13.11	12.92	13.82	14.20	15.33	15.82	21.07	18.81	19.26	18.66	17.54	15.11			
10		12.91	13.44	13.71	14.72	15.49	18.04	20.85	18.99	19.83	18.54	17.26	15.31			
11		12.76	13.32	13.62	15.39	15.73	18.34	20.85	18.52	19.14	18.24	16.75	15.11			
12		12.81	12.82	13.54	15.33	15.18	17.79	20.31	18.45	19.11	18.23	16.70	14.43			
13		12.70	12.96	13.36	15.42	15.85	18.30	19.74	17.45	19.01	18.12	16.59	15.01			
14		12.42	13.02	13.31	15.17	16.24	18.09	20.04	18.24	19.46	18.33	16.84	15.93			
15		12.80	13.18	13.57	15.80	16.32	18.31	19.94	18.74	19.39	18.34	16.17	16.05			
16		12.71	13.12	13.73	16.13	16.69	18.32	19.73	19.25	19.23	18.84	16.17	16.49			
17		12.82	13.26	14.19	15.60	16.14	17.84	19.83	19.01	18.94	18.29	16.22	16.13			
18		13.02	13.18	13.99	15.93	16.23	18.05	20.05	18.63	19.26	17.97	16.37	15.56			
19		12.96	13.31	14.06	16.08	16.00	17.39	20.39	18.34	19.42	17.55	17.13	15.33			
20		12.79	13.01	14.57	16.44	15.40	17.73	20.76	18.35	19.53	17.82	16.32	15.02			
21		12.98	13.10	14.37	16.34	16.02	17.63	20.94	17.93	19.54	17.55	16.75	14.74			
22		13.31	12.96	14.39	16.22	15.54	17.03	21.15	18.56	19.15	15.88	17.31	14.11			
23		13.10	13.02	14.32	16.10	15.13	17.35	20.13	18.44	19.41	16.99	15.82	13.05			
24		13.52	13.23	14.80	16.51	15.63	17.64	21.20	18.89	19.47	16.64	15.72	12.82			
25		12.70	13.02	14.73	16.64	14.69	17.87	21.43	19.40	19.49	17.25	15.26	12.93			
26		11.82	12.92	14.01	16.79	15.60	18.59	22.06	19.29	19.71	17.04	14.81	13.77			
27		11.90	13.01	14.36	16.90	15.62	18.72	22.01	19.53	18.89	17.42	14.91	13.72			
28		11.52	13.11	12.81	16.42	15.32	16.43	21.42	19.44	18.50	17.57	13.81	14.47			
29		12.47		13.62	16.03	15.31	19.09	21.79	19.61	18.86	17.61	13.91	14.67			
30		11.90		14.31	16.04	15.85	18.93	21.49	19.34	18.94	17.36	14.51	14.63			
31		11.69		14.62		16.19		21.23	19.51		17.63		14.87			
MEAN		12.76	12.99	13.91	15.67	15.70	17.51	20.54	19.11	19.31	18.06	16.40	14.89	16.40		
MAX.		13.62	13.44	14.80	16.90	16.79	19.09	22.06	21.11	19.83	19.56	18.17	16.49		22.06	
MIN.		11.52	11.90	12.81	14.20	14.31	15.82	18.94	17.45	18.50	15.88	13.81	12.82			11.52
RANGE		2.10	1.54	1.99	2.70	2.48	3.27	3.12	3.66	1.33	3.68	4.36	3.67			
STD.DEV.		.59	.40	.46	.71	.61	.83	.80	.88	.30	.85	1.17	.93			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	33.58	33.60	33.57	33.61	33.67	33.61	33.66	33.69	33.62	33.61	33.58	33.58			
2		33.58	33.61	33.58	33.60	33.61	33.62	33.70	33.66	33.61	33.57	33.54	33.62			
3		33.51	33.58	33.57	33.57	33.64	33.64	33.71	33.68	33.68	33.55	33.51	33.58			
4		33.58	33.58	33.54	33.62	33.61	33.64	33.70	33.62	33.68	33.61	33.64	33.60			
5		33.47	33.57	33.57	33.58	33.66	33.68	33.69	33.69	33.62	33.57	33.61	33.58			
6		33.51	33.57	33.54	33.64	33.47	33.66	33.75	33.61	33.60	33.54	33.60	33.61			
7		33.60	33.46	33.57	33.58	33.58	33.67	33.69	33.68	33.58	33.60	33.61	33.55			
8		33.57	33.57	33.57	33.68	33.58	33.62	33.69	33.61	33.67	33.62	33.57	33.58			
9		33.38	33.57	33.55	33.61	33.66	33.57	33.71	33.61	33.61	33.62	33.57	33.57			
10		33.41	33.54	33.54	33.61	33.66	33.61	33.74	33.60	33.60	33.66	33.61	33.57			
11		33.39	33.50	33.57	33.62	33.68	33.67	33.73	33.61	33.62	33.53	33.60	33.57			
12		33.37	33.54	33.54	33.67	33.54	33.64	33.75	33.58	33.66	33.66	33.66	33.49			
13		33.54	33.58	33.57	33.67	33.64	33.69	33.64	33.66	33.71	33.66	33.61	33.57			
14		33.46	33.53	33.54	33.62	33.58	33.71	33.67	33.62	33.66	33.58	33.48	33.55			
15		33.39	33.50	33.57	33.62	33.58	33.61	33.69	33.64	33.62	33.57	33.58	33.48			
16		33.37	33.54	33.58	33.60	33.67	33.70	33.71	33.66	33.66	33.51	33.55	33.49			
17		33.55	33.57	33.53	33.58	33.57	33.66	33.70	33.64	33.62	33.54	33.54	33.66			
18		33.49	33.57	33.62	33.67	33.58	33.68	33.69	33.61	33.58	33.57	33.51	33.62			
19		33.51	33.53	33.58	33.61	33.66	33.70	33.69	33.67	33.64	33.64	33.61	33.55			
20		33.51	33.53	33.58	33.66	33.60	33.64	33.77	33.62	33.61	33.68	33.61	33.57			
21		33.58	33.53	33.57	33.68	33.58	33.61	33.75	33.61	33.60	33.58	33.57	33.67			
22		33.55	33.57	33.58	33.64	33.54	33.57	33.74	33.62	33.67	33.61	33.55	33.62			
23		33.53	33.48	33.57	33.69	33.61	33.67	33.70	33.67	33.60	33.62	33.57	33.61			
24		33.53	33.49	33.58	33.71	33.62	33.64	33.74	33.66	33.61	33.62	33.49	33.50			
25		33.48	33.60	33.51	33.67	33.61	33.62	33.75	33.70	33.58	33.61	33.54	33.49			
26		33.50	33.57	33.54	33.60	33.62	33.67	33.77	33.62	33.58	33.60	33.49	33.49			
27		33.54	33.51	33.55	33.66	33.61	33.68	33.71	33.60	33.57	33.60	33.44	33.53			
28		33.54	33.47	33.54	33.58	33.67	33.58	33.70	33.70	33.60	33.58	33.57	33.55			
29		33.31		33.60	33.69	33.68	33.71	33.70	33.68	33.61	33.62	33.57	33.66			
30		33.53		33.68	33.58	33.64	33.69	33.71	33.60	33.66	33.62	33.50	33.61			
31		33.57		33.61		33.70		33.67	33.60		33.61		33.64			
MEAN		33.50	33.55	33.57	33.63	33.62	33.65	33.71	33.64	33.62	33.60	33.56	33.57	33.60		
MAX.		33.60	33.61	33.68	33.71	33.70	33.71	33.77	33.70	33.71	33.68	33.66	33.66		33.77	
MIN.		33.31	33.46	33.51	33.57	33.47	33.57	33.64	33.58	33.57	33.51	33.44	33.48			33.31
RANGE		.29	.15	.17	.14	.23	.14	.13	.12	.14	.17	.22	.18			
STD.DEV.		.07	.04	.04	.03	.05	.04	.03	.03	.03	.04	.05	.05			

SEA WATER SUMMARY: TEMPERATURES
DAILY SURFACE

STATION: SCRIPPS PIER: LA JOLLA, CALIF

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	13.81	13.30	13.40	15.81	15.29	17.61	18.90	21.50	17.79	18.54	17.56	16.19			
2		13.08	13.40	12.88	15.82	15.32	18.54	18.78	21.73	18.45	17.79	17.53	16.50			
3		13.36	13.61	13.12	15.53	16.33	18.45	17.96	20.54		17.86	17.58	15.70			
4		13.21	13.63	13.48	15.42	16.13	18.18	18.35	21.01	18.13	18.32	17.84	16.31			
5		13.54	13.61	13.06	15.62	16.10	17.53	19.11	19.42	18.01	18.46	17.23	16.00			
6		13.49	13.91	13.59	15.62	15.54	18.56	18.48	20.72	18.54		17.02	15.48			
7		13.53	13.27	13.32	15.77	15.10	17.65	19.31	18.09	18.50		16.55	15.19			
8		13.27	13.73	13.79	15.82	15.82	18.18	19.34	18.63	18.76	18.34	16.85	14.38			
9		12.91	13.10	13.48	15.73	15.21	18.11	19.53	19.13	18.40	19.38	16.65	14.56			
10		13.23	13.61	13.21	15.30	16.32	18.94	18.50	18.15	18.10	19.66	16.94	13.91			
11		13.20	12.10	13.34	14.99	16.35	19.45	18.84	19.13	18.33	19.95	16.74	14.17			
12		13.08	13.72	13.38	15.70	16.59	19.03	18.51	19.44	18.36	18.96	16.42	14.46			
13		13.11	13.40	13.21	15.77	16.42	18.45	18.79	20.04	17.85	19.18	16.13	14.91			
14		12.83	13.29	13.43	15.90	16.74	18.75	19.41	19.82	16.54	18.34	16.40	14.63			
15		13.02	12.98	13.57	15.01	17.04	18.94	20.09	20.52	16.23	18.03	16.53	14.61			
16		13.29	13.01	13.69	16.03	16.84	18.70	20.14	20.94	16.65	18.08	16.41	14.79			
17		12.31	13.47	13.21	16.30	16.99	18.61	19.90	20.78	16.23	18.23	17.19	14.50			
18		12.89	13.96	13.62	16.17	17.74	18.62	20.24	20.96	15.15	18.40	17.31	14.62			
19		13.72	13.32	13.15	16.54	17.01	18.95	21.22	20.05	16.45	18.78	16.65	14.88			
20		13.24	13.23		16.74	16.97	18.53	21.24	19.14	16.80	18.59	16.72	14.37			
21			13.63	14.21	16.96	17.26	19.15	21.71	20.62	18.01	17.84	16.11	14.48			
22		13.40	13.91	13.91	16.65	17.53	19.03	21.51	19.70	19.84	18.44		14.36			
23		12.50	13.46	14.21	16.54	17.13	19.45	21.65	19.80	16.76	17.99	16.82	14.39			
24		13.20	13.69	15.41	16.32	17.54	19.19	21.13	18.70	18.21	18.53	16.44	14.64			
25		13.70	14.62	15.33	16.48	18.13	19.53	21.38	18.89	18.23	17.44	16.12	14.71			
26		13.71	14.07	15.68	16.24		19.23	21.54	18.95	17.58	17.27	16.20	14.48			
27		13.20	13.49	15.23	16.60	17.64	18.59	21.94	19.18	18.50	17.58	16.20	14.70			
28		13.71	12.98	15.31	16.42	16.75	18.44	21.99	18.23	18.75	18.16	16.17	14.99			
29		13.71		15.42	16.28	16.47	18.02	22.21	19.13	17.76	17.46	16.35	14.74			
30		13.20		15.50	15.65	18.19	18.69	21.76	19.03	18.40	18.05	16.20	14.69			
31		13.10		15.40		17.43		20.78	18.54		17.93		13.89			
MEAN		13.25	13.48	13.99	15.99	16.66	18.64	20.14	19.69	17.77	18.33	16.72	14.85	16.62		
MAX.		13.81	14.62	15.68	16.96	18.19	19.53	22.21	21.73	19.84	19.95	17.84	16.50		22.21	
MIN.		12.31	12.10	12.88	14.99	15.10	17.53	17.96	18.09	15.15	17.27	16.11	13.89			12.10
RANGE		1.50	2.52	2.80	1.97	3.09	2.00	4.25	3.64	4.69	2.68	1.73	2.61			
STD.DEV.		.37	.50	.72	.50	.82	.52	1.07	.95	.99	.67	.44	.68			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX	MIN.
1	1951	33.54	33.48	33.48	33.61	33.66	33.68	33.73	33.74	33.67	33.57	33.51	33.57			
2		33.54	33.57	33.47	33.62	33.58	33.66	33.69	33.73	33.69	33.57	33.61	33.53			
3		33.50	33.48	33.48	33.60	33.57	33.67	33.64	33.67		33.55	33.61	33.53			
4		33.49	33.53	33.50	33.47	33.66	33.71	33.69	33.77	33.57	33.58	33.64	33.51			
5		33.57	33.51	33.42	33.46	33.62	33.67	33.70	33.71	33.66	33.57	33.57	33.49			
6		33.42	33.53	33.53	33.53	33.57	33.67	33.67	33.69	33.57		33.62	33.50			
7		33.47	33.57	33.53	33.49	33.64	33.68	33.69	33.66	33.64		33.55	33.49			
8		33.46	33.57	33.50	33.55	33.64	33.66	33.71	33.67	33.60	33.64	33.53	33.53			
9		33.66	33.51	33.55	33.61	33.66	33.67	33.68	33.67	33.57	33.57	33.61	33.55			
10		33.67	33.49	33.58	33.66	33.67	33.70	33.69	33.66	33.64	33.58	33.53	33.58			
11		33.58	33.48	33.51	33.57	33.66	33.71	33.69	33.70	33.60	33.64	33.51	33.54			
12		33.48	33.53	33.48	33.62	33.60	33.68	33.62	33.61	33.58	33.66	33.50	33.42			
13		33.54	33.53	33.55	33.61	33.62	33.70	33.68	33.67	33.60	33.64	33.58	33.44			
14		33.55	33.54	33.53	33.60	33.60	33.68	33.70	33.71	33.55	33.66	33.55	33.51			
15		33.48	33.58	33.51	33.61	33.62	33.71	33.66	33.68	33.58	33.54	33.50	33.57			
16		33.49	33.55	33.55	33.66	33.62	33.69	33.68	33.69	33.62	33.54	33.57	33.58			
17		33.47	33.57	33.54	33.57	33.70	33.68	33.73	33.70	33.64	33.58	33.49	33.54			
18		33.54	33.53	33.53	33.58	33.69	33.66	33.73	33.71	33.62	33.57	33.50	33.55			
19		33.47	33.57	33.53	33.58	33.64	33.67	33.77	33.71	33.57	33.60	33.47	33.48			
20		33.57	33.55		33.66	33.60	33.66	33.74	33.68	33.66	33.54	33.51	33.55			
21			33.51	33.57	33.66	33.61	33.68	33.71	33.69	33.61	33.55	33.57	33.54			
22		33.54	33.58	33.49	33.68	33.61	33.67	33.73	33.62	33.62	33.57		33.53			
23		33.55	33.57	33.57	33.66	33.67	33.67	33.67	33.70	33.58	33.54	33.50	33.49			
24		33.60	33.50	33.50	33.62	33.70	33.64	33.73	33.69	33.54	33.57	33.57	33.54			
25		33.51	33.47	33.57	33.61	33.69	33.64	33.70	33.68	33.66	33.54	33.51	33.48			
26		33.61	33.46	33.54	33.53		33.69	33.74	33.66	33.68	33.41	33.49	33.58			
27		33.55	33.53	33.53	33.57	33.64	33.70	33.69	33.60	33.61	33.48	33.55	33.58			
28		33.51	33.51	33.51	33.58	33.67	33.67	33.67	33.58	33.57	33.47	33.57	33.48			
29		33.57		33.51	33.51	33.70	33.67	33.69	33.57	33.62	33.64	33.55	33.51			
30		33.49		33.66	33.54	33.61	33.70	33.66	33.64	33.58	33.58	33.53	33.15			
31		33.51		33.57		33.66		33.62	33.64		33.53		33.28			
MEAN		33.53	33.53	33.53	33.59	33.64	33.68	33.69	33.67	33.61	33.57	33.54	33.50	33.59		
MAX.		33.67	33.58	33.66	33.68	33.70	33.71	33.77	33.77	33.69	33.66	33.64	33.58		33.77	
MIN.		33.42	33.46	33.42	33.46	33.57	33.64	33.62	33.57	33.54	33.41	33.47	33.15			33.15
RANGE		.25	.12	.24	.22	.13	.07	.15	.20	.15	.25	.17	.43	..		
STD.DEV.		.06	.03	.05	.06	.04	.02	.04	.05	.04	.06	.04	.10			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	14.05	13.80	13.78	14.97	16.00	18.10	17.86	21.00	21.74	17.97	17.00	14.91			
2		13.55	13.98	13.37	15.00	16.06	18.21	16.79	20.46	21.83	18.10	16.40	15.21			
3		13.38	13.76	12.40	15.06	14.60	18.23	15.60	19.23	20.75	18.19	15.28	14.31			
4		13.93	13.71	13.14	13.07	16.16	18.00	15.87	18.23	20.60	18.85	15.21	14.26			
5		13.78	13.90	12.95	15.16	16.02	17.97	16.07	18.80	19.08	18.28	15.30	14.87			
6		13.77	13.47	13.34	15.49	16.18	18.02	15.98	19.06	17.91	17.83	15.06	15.45			
7			13.47	13.26	15.51	17.18	17.21	15.58	20.07	16.73	18.19	15.22	15.01			
8			13.85	13.28	15.31	17.22	17.89	14.59	20.78	16.32	17.80	17.58	14.91			
9		13.37	13.86	13.48	15.71	16.06	16.79	14.19	20.60	14.41	17.83	16.09	14.51			
10		13.48	13.73	13.50	14.85	17.69	16.99	14.78	20.47	17.43	17.77	15.61	14.71			
11		13.61	13.87	12.77	14.80	17.91	16.69	16.96	20.73	16.02	17.81	15.08	14.80			
12		13.69	13.66	13.30	15.70	16.96	16.81	16.73	20.98	17.42	17.98	15.07	14.53			
13		13.63	13.45	13.17	15.78	15.95	15.28	16.91	21.01	18.02	17.18	15.28	15.50			
14		13.53	13.31	12.50	15.31	17.69	16.08	18.00	20.32	18.59	17.32	15.48	15.07			
15			13.26	13.53	15.27	17.09	14.60	17.95	20.19	17.83	17.09	15.45	14.84			
16		13.67	13.89	13.32	15.51	16.18	15.58	17.24	20.50	17.80	16.99	15.41	14.79			
17		13.59	14.18	12.97	15.81	17.27	17.44	17.58	20.52	17.72	17.18	14.71	14.58			
18		13.39	13.56	13.22	15.92	16.99	17.98	18.24	20.78	17.42	17.91	14.64	14.78			
19		13.98	13.70	13.49	16.08	16.21	17.85	18.21	20.90	17.53	17.62	15.18	14.91			
20		14.13	13.26	13.91	15.79	16.45	18.85	18.24	20.98	18.32	16.16	15.37	14.82			
21		13.91	13.21	12.96	15.29	17.19	18.52	19.08	21.54	18.19	16.44	15.21	14.69			
22		13.61		12.97	15.98	17.27	18.26	21.17	21.45	17.77	16.36	15.64	14.29			
23		13.31	13.43	13.38	16.00	18.19	18.00	20.02	21.64	16.81	16.52	15.40	14.35			
24		13.36	13.55	13.05	15.95	18.58	18.69	19.99	20.80	18.80	16.71	15.11	14.35			
25		13.95	13.30	13.16	15.55	18.40	18.35	20.90	21.90	17.94	17.54	14.52	14.58			
26		14.08	13.10	13.90	15.54	18.34	17.36	21.58	22.22	18.10	17.50	15.10	14.70			
27		13.95	13.41	14.41	15.41	18.55	17.52	20.80	22.08	18.12	17.32	15.91	14.39			
28		13.67	13.36	14.31	15.57	18.79	17.90	19.54	22.75	18.20	16.72	14.54	14.18			
29		13.93	13.56	14.67	15.47	19.00	17.86	20.78	22.03	18.04	16.27	15.35	13.86			
30		13.49		14.89	15.87	17.81	17.91	20.98	23.27	18.23	16.42	15.07	13.86			
31		13.95		14.80		18.10		21.80	22.53		15.72		13.86			
MEAN		13.71	13.59	13.46	15.42	17.16	17.50	18.06	20.90	18.12	17.34	15.41	14.64	16.28		
MAX.		14.13	14.18	14.89	16.08	19.00	18.85	21.80	23.27	21.83	18.85	17.58	15.50		23.27	
MIN.		13.31	13.10	12.40	13.07	14.60	14.60	14.19	18.23	14.41	15.72	14.52	13.86			12.40
RANGE		.82	1.08	2.49	3.01	4.40	4.25	7.61	5.04	7.42	3.13	3.06	1.64			
STD.DEV.		.21	.26	.65	.58	.98	1.05	1.98	1.22	1.80	.71	.75	.44			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: SCRIPPS PIER : LA JOLLA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	33.35	33.46	33.40	33.57	33.66	33.64	33.73	33.77	33.77	33.67	33.60	33.57			
2		33.44	33.50	33.46	33.60	33.67	33.67	33.62	33.70	33.74	33.67	33.57	33.51			
3		33.46	33.54	33.51	33.58	33.66	33.69	33.67	33.70	33.73	33.69	33.57	33.51			
4		33.53	33.53	33.53	33.55	33.64	33.67	33.62	33.64	33.77	33.67	33.57	33.55			
5		33.46	33.57	33.54	33.60	33.62	33.66	33.62	33.73	33.64	33.61	33.53	33.55			
6		33.50	33.49	33.51	33.62	33.66	33.62	33.68	33.69	33.73	33.56	33.57	33.53			
7			33.53	33.50	33.57	33.70	33.70	33.61	33.80	33.68	33.70	33.54	33.53			
8			33.55	33.31	33.57	33.71	33.66	33.53	33.74	33.64	33.69	33.60	33.57			
9		33.48	33.60	33.35	33.62	33.62	33.64	33.66	33.77	33.60	33.64	33.53	33.57			
10		33.41	33.55	33.47	33.49	33.64	33.69	33.68	33.75	33.66	33.68	33.51	33.51			
11		33.57	33.57	33.55	33.47	33.62	33.67	33.69	33.69	33.61	33.61	33.54	33.54			
12		33.57	33.60	33.57	33.37	33.64	33.68	33.71	33.77	33.62	33.66	33.57	33.55			
13		33.33	33.55	33.51	33.42	33.62	33.67	33.69	33.81	33.64	33.58	33.53	33.53			
14		33.49	33.62	33.50	33.49	33.66	33.62	33.66	33.75	33.67	33.60	33.57	33.53			
15			33.58	33.57	33.60	33.68	33.68	33.73	33.75	33.62	33.58	33.51	33.60			
16		33.41	33.57	33.33	33.55	33.61	33.57	33.69	33.77	33.67	33.67	33.47	33.53			
17		33.47	33.60	33.40	33.58	33.69	33.61	33.69	33.73	33.64	33.66	33.51	33.57			
18		32.87	33.53	33.51	33.61	33.70	33.68	33.73	33.73	33.67	33.67	33.55	33.54			
19		33.01	33.55	33.60	33.57	33.62	33.71	33.68	33.75	33.67	33.66	33.51	33.64			
20		33.22	33.54	33.61	33.67	33.67	33.74	33.69	33.69	33.66	33.61	33.55	33.53			
21		33.28	33.60	33.57	33.64	33.68	33.70	33.71	33.81	33.73	33.69	33.54	33.55			
22		33.34		33.55	33.66	33.67	33.73	33.75	33.70	33.67	33.67	33.58	33.53			
23		33.49	33.50	33.57	33.64	33.71	33.69	33.70	33.78	33.71	33.58	33.53	33.51			
24		33.49	33.49	33.55	33.60	33.73	33.68	33.74	33.75	33.68	33.60	33.49	33.50			
25		33.33	33.58	33.55	33.62	33.71	33.70	33.70	33.69	33.69	33.53	33.58	33.57			
26		33.38	33.54	33.58	33.58	33.71	33.68	33.71	33.77	33.67	33.58	33.54	33.53			
27		33.42	33.57	33.57	33.58	33.69	33.67	33.69	33.81	33.66	33.60	33.53	33.54			
28		33.39	33.58	33.54	33.60	33.71	33.70	33.71	33.82	33.73	33.57	33.54	33.48			
29		33.42	33.54	33.54	33.66	33.67	33.67	33.70	33.80	33.64	33.57	33.57	33.41			
30		33.48		33.50	33.68	33.70	33.66	33.74	33.77	33.67	33.58	33.48	33.50			
31		33.53		33.51		33.60		33.75	33.78		33.58		33.57			
MEAN		33.40	33.55	33.51	33.58	33.67	33.67	33.69	33.75	33.68	33.62	33.54	33.54	33.60		
MAX.		33.57	33.62	33.61	33.68	33.79	33.74	33.75	33.82	33.77	33.70	33.60	33.64		33.82	
MIN.		32.87	33.46	33.31	33.37	33.60	33.57	33.53	33.64	33.60	33.53	33.47	33.41			32.87
RANGE		.70	.16	.30	.31	.13	.17	.22	.18	.17	.17	.13	.23			
STD.DEV.		.18	.04	.08	.08	.03	.04	.05	.04	.04	.04	.03	.05			

SEA WATER SUMMARY: TEMPERATURES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	MAX	MIN
1	1953	13.89	13.89	12.56	14.07	15.77	15.21	18.39	21.08	19.99	15.67	17.29	14.98			
2		13.90	13.41	12.00	13.97	16.99	14.36	18.20	21.39	20.11	15.28	17.01	14.37			
3		14.54	13.49	11.75	14.16	17.13	13.96	18.38	21.80	19.76	16.15	17.65	14.17			
4		14.06	13.44	12.41	14.09	15.61	14.37	19.30	21.68	19.89	15.69	17.22	14.86			
5		13.97	13.70	12.61	13.80	16.00	14.81	19.22	21.31	19.30	15.91	17.80	14.60			
6		14.37	13.51	13.17	13.91	16.22	15.60	19.47	21.63	18.87	16.86	17.10	14.58			
7		14.37	14.67	15.26	13.40	16.17	15.91	19.23	21.18	18.29	17.01	18.40	13.46			
8		14.49	14.19	13.80	14.01	15.45	16.38	19.99	21.18	16.45	18.20	17.42	13.97			
9		14.49	13.18	13.25	14.09	15.58	16.36	18.33	21.20	15.78	18.92	17.01	14.07			
10		14.82	12.97	13.40	12.95	13.77	16.92	18.20	21.10	18.14	20.48	17.22	14.14			
11		14.66	13.40	13.00	13.80	13.20	17.09	21.39	20.98	18.34	18.87	17.45	13.67			
12		14.60	13.76	12.44	13.89	13.97	16.93	21.52	20.66	20.30	18.34	15.86	14.36			
13		14.56	13.61	13.20	13.90	15.46	16.87	21.72	21.28		18.41	15.95	14.29			
14		14.40	14.50	14.39	13.87	15.87	17.23	19.62	20.86	19.20	18.70	16.18	14.17			
15		14.07	14.19	14.91	13.91	15.06	16.08	21.64	21.69	19.49	18.30	16.36	14.26			
16		13.77	13.80	13.85	14.50	15.30	17.09	22.08	21.30	18.70	18.53	15.90	14.37			
17		14.21	13.57	13.66	14.35	15.50	16.81	22.70	20.98	17.93	19.42	16.18	14.98			
18		14.06	13.49	13.80	15.17	15.98	17.22	23.13	21.28	17.64	18.43	15.28	15.18			
19		13.65	12.80	13.76	15.37	15.73	17.60	22.92	21.08	18.42	18.35	13.46	16.00			
20		14.10	11.95	14.07	14.96	15.98	18.70	22.10	20.75	18.00	17.19	15.18	15.08			
21		14.08	12.27	14.25	14.98	15.96	18.97	20.37	20.21	19.00	16.99	14.17	14.50			
22		13.31	12.40	14.11	15.07	15.98	18.39	20.71	20.51	15.71	17.34	14.59	14.58			
23		13.27		13.95	15.41	17.09	17.23	21.08	20.36	16.31	16.02	14.07	12.97			
24		14.56	11.20	14.41	15.72	16.99	18.00	21.08	20.27	14.98	18.11	13.97	13.58			
25		13.87	11.80	14.31	16.81	16.77	19.00	21.08	19.20	15.26	17.70	14.05	14.37			
26		13.07	11.91	14.20	16.10	16.51	19.43	21.31	18.23	14.69	17.41	14.37	14.48			
27		12.66	11.95	13.95	16.01	16.31	19.89	21.18	19.12	15.40	17.53	14.85	13.87			
28		12.80	12.79	15.28	15.22	15.55	19.32	20.87	19.20	14.27	17.26	15.49	13.97			
29		13.20		14.10	15.07	14.37	18.79	21.08	20.41	15.81	17.19	15.06	11.77			
30		13.30		13.51	15.38	15.98	18.45	20.29	20.08	15.36	17.47	14.37	13.37			
31		13.97		13.79		15.74		20.97	19.96		18.22		14.70			
MEAN		13.97	13.18	13.65	14.60	15.74	17.16	20.57	20.69	17.63	17.61	15.98	14.25	16.24		
MAX.		14.82	14.67	15.28	16.81	17.13	19.89	23.13	21.80	20.30	20.48	18.40	16.00		23.13	
MIN.		12.66	11.20	11.75	12.95	13.20	13.96	18.20	18.23	14.27	15.28	13.46	11.77			11.20
RANGE		2.16	3.47	3.53	3.86	3.93	5.93	4.93	3.57	6.03	5.20	4.94	4.23			
STD.DEV.		.54	.87	.92	.90	.98	1.50	1.31	.89	1.58	1.21	1.20	.87			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER · LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB	MAR	APR.	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	MAX	MIN.
1	1953	33.57	33.51	33.58	33.60	33.61	33.57	33.69	33.75	33.69	33.60	33.58	33.60			
2		33.54	33.48	33.49	33.58	33.44	33.60	33.61	33.75	33.61	33.60	33.57	33.57			
3		33.54	33.55	33.54	33.62	33.67	33.62	33.69	33.74	33.61	33.66	33.55	33.59			
4		33.60	33.55	33.54	33.53	32.61	33.62	33.64	33.70	33.69	33.60	33.57	33.57			
5		33.55	33.55	33.54	33.55	33.66	33.66	33.62	33.78	33.71	33.62	33.57	33.57			
6		33.53	33.54	33.51	33.50	33.62	33.61	33.68	33.78	33.68	33.51	33.54	33.64			
7		33.42	33.54	33.48	33.57	33.64	33.58	33.61	33.74	33.64	33.60	33.61	33.60			
8		33.50	33.50	33.51	33.53	33.60	33.68	33.66	33.69	33.58	33.61	33.57	33.57			
9		33.49	33.61	33.54	33.61	33.60	33.67	33.69	33.73	33.57	33.58	33.57	33.60			
10		33.55	33.53	33.57	33.57	33.57	33.67	33.70	33.75	33.66	33.61	33.61	33.55			
11		33.48	33.53	33.51	33.51	33.54	33.62	33.75	33.68	33.61	33.58	33.57	33.54			
12		33.62	33.51	33.54	33.54	33.60	33.62	33.70	33.71	33.69	33.54	33.57	33.51			
13		33.54	33.53	33.51	33.49	33.62	33.67	33.69	33.71		33.55	33.55	33.57			
14		33.51	33.54	33.57	33.57	33.54	33.62	33.69	33.74	33.61	33.60	33.57	33.58			
15		33.51	33.60	33.61	33.53	33.60	33.64	33.73	33.70	33.66	33.57	33.64	33.60			
16		33.50	33.58	33.57	33.55	33.66	33.60	33.73	33.75	33.68	33.57	33.61	33.61			
17		33.54	33.50	33.61	33.58	33.61	33.67	33.73	33.73	33.66	33.58	33.55	33.58			
18		33.55	33.50	33.57	33.60	33.61	33.62	33.77	33.69	33.61	33.55	33.60	33.58			
19		33.49	33.53	33.57	33.58	33.66	33.68	33.80	33.75	33.68	33.61	33.60	33.55			
20		33.50	33.54	33.58	33.54	33.58	33.67	33.71	33.71	33.61	33.57	33.60	33.58			
21		33.48	33.54	33.57	33.57	33.66	33.62	33.69	33.68	33.58	33.62	33.58	33.55			
22		33.53	33.51	33.61	33.58	33.62	33.58	33.71	33.77	33.60	33.64	33.58	33.58			
23		33.51		33.62	33.62	33.64	33.66	33.74	33.71	33.62	33.64	33.60	33.58			
24		33.51	33.47	33.60	33.62	33.66	33.69	33.71	33.75	33.57	33.60	33.61	33.58			
25		33.51	33.51	33.61	33.61	33.61	33.67	33.77	33.61	33.61	33.64	33.57	33.54			
26		33.49	33.57	33.66	33.58	33.58	33.66	33.73	33.60	33.54	33.60	33.58	33.57			
27		33.53	33.54	33.57	33.58	33.67	33.64	33.75	33.67	33.57	33.69	33.57	33.62			
28		33.55	33.55	33.62	33.53	33.66	33.64	33.77	33.69	33.54	33.64	33.57	33.60			
29		33.53		33.61	33.58	33.62	33.58	33.78	33.66	33.60	33.58	33.58	33.54			
30		33.57		33.54	33.64	33.62	33.68	33.74	33.58	33.64	33.62	33.60	33.66			
31		33.53		33.60		33.58		33.73	33.58		33.66		33.62			
MEAN		33.52	33.53	33.57	33.57	33.62	33.64	33.71	33.71	33.63	33.60	33.58	33.58	33.60		
MAX.		33.60	33.61	33.66	33.64	33.67	33.69	33.80	33.78	33.71	33.69	33.64	33.66		33.80	
MIN.		33.42	33.47	33.48	33.49	33.54	33.57	33.61	33.58	33.54	33.54	33.54	33.51			33.42
RANGE		.18	.14	.18	.15	.13	.12	.19	.20	.17	.15	.10	.15			
STD.DEV.		.04	.04	.04	.04	.04	.03	.05	.05	.04	.04	.02	.03			

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Scripps Pier: La Jolla, Calif

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	14.66	13.72	14.91	14.81	15.28	18.49	18.31	21.31	20.62	17.99	15.38	15.76			
2		14.77	13.38	14.80	14.42	15.20	18.43	19.40	20.59	18.99	18.67	15.92	15.70			
3		14.24	13.91	14.75	14.91	15.18	18.22	19.81	21.80	17.82	18.40	15.76	15.99			
4		14.17	13.87	14.86	13.80	16.19	18.09	19.19	21.60	21.59	17.35	15.82	16.90			
5		14.17	13.91	16.28	13.98	16.07	18.11	19.09	21.60	19.59	17.99	15.71	16.55			
6		14.45	15.00	15.24	13.98	16.11	17.99	20.19	21.80	19.71	17.79	17.39	15.81			
7		13.50	14.56	15.29	14.46	15.83	17.97	20.31	22.20	20.99	17.76	16.11	15.59			
8		13.60	14.91	14.77	14.98	16.46	18.47	20.19	22.22	19.99	17.19	15.92	15.31			
9			14.88	14.91	15.18	15.99	18.78	20.99	22.20	21.09	17.97	15.28	16.38			
10			14.18	14.98	15.03	16.39	17.33	21.63	22.40	20.99	16.89	16.19	15.18			
11		14.00	14.18	14.28	15.20	16.32	18.73	21.89	21.70	21.94	16.69	16.18	15.51			
12		14.00	14.46	13.21	15.36	13.91	19.39	22.00	20.31		16.29	17.19	15.20			
13		14.00	14.08	13.09	15.28	13.39	18.02	22.00	21.13	20.19	16.60	17.13	14.18			
14		15.00	14.90	13.44	15.59	16.56	17.37	21.90	22.18	20.19	16.49	17.31	14.15			
15		14.00	13.85	13.08	15.61	16.59	18.52	21.21	21.82	18.67	16.32	17.41	14.48			
16		13.80	13.81	12.18	14.98	16.61	18.32	22.22	21.21	18.37	15.97	16.99	14.32			
17		14.80	14.08	13.18	15.44	16.42	18.09	23.08	20.92	19.18	16.07	16.49	13.91			
18			13.91	12.98	14.96	16.41	17.62	23.72	21.22	19.52	15.21	16.39				
19			13.75	13.28	14.91	16.82	17.90	22.25	20.72	19.41	14.66	16.52				
20			14.40	13.72	15.32	17.31	17.86	21.19	20.63	18.33	15.28	17.11				
21		13.80	14.71	13.64	15.39	17.09	18.21	21.47	21.03	16.43	17.19	16.99	15.70			
22		13.70	15.08	13.48	15.28	16.96	18.41	21.19	20.81	16.52	17.52	16.39	16.09			
23		15.30	14.18	13.42	15.19	17.89	18.82	21.39	21.11	17.42	17.70	16.19	14.82			
24		14.90	14.12	13.15	15.61	17.32	18.73	21.10	20.99	18.29	17.61	16.13	14.70			
25		14.30	13.98	13.51	15.59	17.48	18.38	20.89	21.37	19.93	17.19	16.42	14.65			
26		13.21	14.28	13.80	15.30	17.29	19.08	21.39	20.62	18.47	16.47	16.32	14.50			
27		13.35	15.31	14.45	14.81	17.62	19.31	22.30	20.32	17.21	15.99	17.07	14.20			
28		13.37	15.49	14.71	15.40	17.67	19.19	22.40	21.90	17.09	15.32	16.43	14.16			
29		13.62		14.36	15.59	17.80	19.16	22.40	21.93	17.09	15.42	16.29	13.58			
30		14.09		14.08	15.71	18.43	19.62	22.20	20.45	18.18	16.81	15.69	13.79			
31		13.83		14.17		18.55		21.30	19.09		15.99		14.01			
MEAN		14.10	14.32	14.03	15.06	16.55	18.42	21.25	21.26	19.10	16.80	16.40	14.97	16.86		
MAX.		15.30	15.49	15.29	15.71	18.55	19.62	23.72	22.40	21.94	18.67	17.41	16.90		23.72	
MIN.		13.21	13.38	12.18	13.80	13.39	17.33	18.31	19.09	16.43	14.66	15.28	13.58			12.18
RANGE		2.09	2.11	3.11	1.91	5.16	2.29	5.41	3.31	5.51	4.01	2.13	3.32			
STD.DEV.		.53	.52	.73	.48	1.31	.59	1.27	.71	1.46	.98	.57	.85			

SEA WATER SUMMARY: SALINITIES
DAILY SURFACE

STATION: SCRIPPS PIER : LA JOLLA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1954	33.58	33.51	33.51	33.55	33.67	33.61	33.68	33.71	33.69	33.67	33.55	33.57			
2		33.57	33.55	33.53	33.55	33.62	33.61	33.67	33.70	33.73	33.62	33.55	33.58			
3		33.61	33.51	33.54	33.57	33.60	33.67	33.68	33.71	33.68	33.64	33.57	33.58			
4		33.61	33.51	33.50	33.66	33.61	33.69	33.67	33.70	33.69	33.60	33.62	33.55			
5		33.60	33.50	33.51	33.61	33.62	33.67	33.67	33.68	33.69	33.62	33.60	33.57			
6		33.57	33.55	33.58	33.60	33.66	33.69	33.73	33.66	33.66	33.62	33.58	33.58			
7		33.57	33.57	33.57	33.60	33.61	33.61	33.71	33.71	33.64	33.66	33.57	33.57			
8		33.55	33.54	33.48	33.55	33.62	33.67	33.69	33.67	33.69	33.58	33.53	33.58			
9			33.54	33.50	33.64	33.61	33.64	33.74	33.70	33.74	33.62	33.55	33.60			
10			33.57	33.50	33.58	33.61	33.60	33.69	33.69	33.71	33.60	33.57	33.49			
11		33.60	33.55	33.55	33.51	33.58	33.68	33.68	33.69	33.70	33.54	33.48	33.53			
12		33.60	33.51	33.48	33.54	33.57	33.64	33.66	33.66		33.61	33.47	33.60			
13		33.54	33.54	33.55	33.61	33.60	33.68	33.66	33.70	33.66	33.61	33.55	33.55			
14		33.57	33.30	33.57	33.60	33.66	33.60	33.69	33.77	33.64	33.60	33.55	33.55			
15		33.53	33.39	33.57	33.67	33.57	33.58	33.69	33.73	33.62	33.57	33.57	33.54			
16		33.61	33.46	33.51	33.61	33.62	33.67	33.66	33.69	33.67	33.62	33.57	33.55			
17		33.60	33.55	33.46	33.66	33.66	33.70	33.70	33.66	33.60	33.60	33.54	33.58			
18			33.50	33.55	33.62	33.60	33.62	33.71	33.71	33.61	33.58	33.58				
19			33.53	33.53	33.67	33.68	33.67	33.64	33.68	33.68	33.57	33.57				
20			33.58	33.55	33.57	33.66	33.70	33.68	33.69	33.61	33.55	33.62				
21		33.39	33.53	33.55	33.60	33.64	33.69	33.68	33.69	33.60	33.58	33.58	33.61			
22		33.57	33.51	33.44	33.62	33.66	33.70	33.66	33.67	33.57	33.58	33.58	33.60			
23		33.55	33.54	32.97	33.57	33.68	33.64	33.61	33.73	33.67	33.58	33.61	33.57			
24		33.54	33.50	32.86	33.66	33.58	33.69	33.70	33.66	33.67	33.61	33.57	33.54			
25		33.37	33.53	33.19	33.60	33.64	33.68	33.69	33.73	33.64	33.57	33.57	33.62			
26		33.50	33.54	33.38	33.57	33.68	33.70	33.70	33.67	33.70	33.60	33.53	33.62			
27		33.58	33.50	33.46	33.61	33.68	33.70	33.71	33.66	33.68	33.55	33.54	33.57			
28		33.55	33.50	33.54	33.60	33.64	33.68	33.70	33.73	33.61	33.57	33.57	33.55			
29		33.57		33.57	33.64	33.64	33.67	33.73	33.70	33.66	33.60	33.60	33.60			
30		33.54		33.57	33.69	33.69	33.74	33.77	33.70	33.62	33.55	33.60	33.58			
31		33.51		33.57		33.71		33.70	33.66		33.60		33.57			
MEAN		33.55	33.51	33.47	33.60	33.63	33.66	33.69	33.69	33.66	33.60	33.57	33.57	33.60		
MAX.		33.61	33.58	33.58	33.69	33.71	33.74	33.77	33.77	33.74	33.67	33.62	33.62		33.77	
MIN.		33.37	33.30	32.86	33.51	33.57	33.58	33.61	33.66	33.57	33.54	33.47	33.49			32.86
RANGE		.24	.28	.72	.18	.14	.16	.16	.11	.17	.13	.15	.13			
STD.DEV.		.06	.06	.18	.04	.04	.04	.04	.02	.04	.03	.04	.03			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER : LA JOLLA, CALIF.
DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1955	13.90	13.61	12.51	14.19	13.90	16.79	18.32	20.96	21.20	16.28	16.08	14.60			
2		13.85	12.67	13.30	16.61	14.18	17.19	18.72	20.90	21.59	17.05	16.40	14.50			
3		13.18	12.80	13.20	13.70	14.32	17.31	18.82	21.45	22.62	16.15	16.56	14.40			
4		13.31	12.61	13.32	13.55	14.98	19.61	19.00	21.30	20.10	16.40	16.30	14.10			
5		13.77	12.10	13.36	13.91	15.08	18.72	19.09	22.20	21.00	17.20	16.31	14.00			
6		13.71	12.06	13.42	14.42	15.31	18.56	17.97	22.20	21.48	17.10	16.56	14.10			
7		13.69	11.98	13.48	14.18	16.19	18.88	18.82	23.00	21.87	17.63	16.70	14.39			
8		14.20	11.96	13.60	14.32	16.79	18.09	18.65	22.30	21.95	17.73	16.50	14.11			
9		13.90	11.91	13.81	15.21	16.33	18.13	20.19	22.80	23.00	18.72	16.20	14.20			
10		13.65	12.28	13.98	13.50	16.43	17.37	19.80	23.40	22.47	18.15	15.70	14.50			
11			12.90	14.18	14.92	16.37	18.71	19.67	23.70	21.94	18.10	15.50	13.96			
12			14.42	14.20	14.76	16.49	18.41	19.90	22.80	20.96	18.10	15.92	13.97			
13		13.66	15.00	14.26	15.22	15.36	18.36	20.14	21.48	21.65	17.95	16.00	13.80			
14		13.68	13.35	14.80	15.53	16.21	18.91	20.41	22.02	20.30	17.88	16.21	14.00			
15		13.66	13.45	14.58	14.87	15.18	18.31	20.38	22.30	16.50	18.68	15.70	13.85			
16		13.70	13.60	14.18	15.49	15.28	18.40	20.72	22.75	19.95	18.00	15.60	13.83			
17		13.20	13.98	13.98	15.99	15.61	18.32	19.42	23.20	21.84	17.41	15.80	13.55			
18		12.96	13.96	14.31	14.41	16.52	17.69	20.10	23.50	20.50	17.30	15.40	13.50			
19		12.98	13.28	14.29	13.01	16.43	18.62	21.17	23.60	20.80	17.35	16.40	13.24			
20		13.10	13.68	14.34	12.02	17.41	18.46	20.80	23.10	20.90	17.20	15.61	13.07			
21		12.75	12.45	64.18	12.31	16.41	18.52	20.20	22.00	21.20	17.20	15.40	13.10			
22		12.79		14.27	13.02	17.69	19.22	20.50	21.20	20.60	17.20	14.92	12.80			
23		12.74	12.27	14.32	14.30	17.42	17.34	18.30	19.90	20.30	17.32	14.97	13.00			
24		12.90	12.46	14.41	13.48	17.49	15.86	18.42	20.35	19.94	17.00	15.82	13.49			
25		13.31	12.61	14.75	14.00	17.09	17.30	19.10	19.00	20.82	17.00	14.97	14.54			
26		12.86	12.65	16.11	13.98	17.22	17.50	19.40	20.05	19.65	16.70	15.43	14.32			
27		13.09	12.60	17.81	12.87	17.81	17.95	19.60	19.90	18.92	16.48	14.60	14.40			
28		12.61	13.01	15.41	12.50	18.49	18.32	19.60	17.40	18.18	16.50	14.57	13.64			
29		14.17		15.49	14.80	18.41	18.17	19.80	17.40	18.20	16.63	14.60	12.85			
30		13.43		15.32	13.21	17.81	18.10	19.97	19.35	16.90	17.68	14.56	13.25			
31		13.40		15.83		16.85		20.60	21.25		16.26		13.26			
MEAN		13.38	12.95	14.35	14.14	16.36	18.10	19.60	21.48	20.58	17.30	15.71	13.82	16.48		
MAX.		14.20	15.00	17.81	16.61	18.49	19.61	21.17	23.70	23.00	18.72	16.70	14.60		23.70	
MIN.		12.61	11.91	12.51	12.02	13.90	15.86	17.97	17.40	16.50	16.15	14.56	12.80			11.91
RANGE		1.59	3.09	5.30	4.59	4.59	3.75	3.20	6.30	6.50	2.57	2.14	1.80			
STD.DEV.		.44	.93	1.01	1.08	.97	.76	.82	1.65	1.54	.68	.65	.53			

SEA WATER SUMMARY: SALINITIES

STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY SURFACE SALINITIES

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE	JULY.	AUG.	SEPT.	OCT	NOV	DEC	MEAN	MAX.	MIN.
1	1955	33.57	33.54	33.57	33.61	33.41	33.62		33.69		33.55	33.58	33.58			
2		33.51	33.57	33.54	33.60	33.46	33.64	33.66	33.68		33.56	33.56	33.61			
3		33.49	33.55	33.51	33.60	33.55	33.61		33.68		33.54	33.60	33.51			
4		33.46	33.55	33.51	33.57	33.58	33.64		33.71		33.55	33.58	33.54			
5		33.53	33.57	33.57	33.57	33.60	33.66		33.74		33.63	33.55	33.56			
6		33.44	33.53	33.55	33.57	33.61	33.67		33.76		33.60	33.91	33.53			
7		33.40	33.55	33.53	33.60	33.62	33.67		33.73		33.62	33.60	33.53			
8		33.42	33.55	33.54	33.57	33.61	33.67	33.66	33.76		33.60	33.57	33.53			
9		33.42	33.57	33.53	33.60	33.62	33.66	33.66	33.73		33.63	33.61	33.55			
10		33.35	33.57	33.57	33.58	33.64	33.68	33.67	33.78		33.68	33.58	33.59			
11			33.55	33.46	33.58	33.64	33.64	33.67	33.82		33.71	33.53	33.58			
12			33.60	33.49	33.57	33.64	33.67	33.68	33.83		33.71	33.58	33.56			
13		33.39	33.57	33.57	33.61	33.61	33.69	33.70	33.73		33.70	33.79	33.55			
14		33.46	33.57	33.55	33.61	33.58	33.66	33.69	33.78		33.70	33.55	33.55			
15		33.55	33.55	33.54	33.57	33.62	33.61	33.66	33.77		33.71	33.57	33.72			
16		33.44	33.60	33.57	33.55	33.64	33.64	33.68	33.79		33.71	33.60	33.60			
17		33.50	33.50	33.53	33.57	33.60	33.66	33.65	33.80	33.69	33.67	33.58	33.65			
18		33.54	33.51	33.57	33.57	33.67	33.60	33.63	33.78	33.69	33.66	33.50	33.58			
19		33.35	33.57	33.58	33.55	33.66	33.64	33.66		33.77	33.66	33.53	33.59			
20		33.30	33.57	33.58	33.54	33.67	33.68	33.61		33.73	33.62	33.57	33.58			
21		33.44	33.57	33.57	33.57	33.64	33.68	33.63		33.77	33.84	33.51	33.59			
22		33.53		33.58	33.53	33.66	33.69	33.62		33.73	33.63	33.56	33.58			
23		33.55	33.53	33.62	33.54	33.64	33.64	33.62		33.75	33.65	33.59	33.56			
24		33.57	33.57	33.60	33.53	33.60	33.66	33.64		33.75	33.81	33.56	33.64			
25		33.58	33.57	33.60	33.55	33.66	33.59	33.66		33.75	33.63	33.57	33.66			
26		33.55	33.61	33.62	33.55	33.68	33.58	33.59		33.72	33.74	33.79	33.67			
27		33.57	33.55	33.64	33.57	33.68		33.61		33.69	33.58	33.72	33.65			
28		33.57	33.49	33.66	33.57	33.61		33.60		33.64	33.84	33.68	33.66			
29		33.55		33.57	33.57	33.61	33.62	33.64		33.65	33.70	33.64	33.61			
30		33.55		33.61	33.55	33.62	33.63	33.65		33.60	33.68	33.58	33.66			
31		33.53		33.60		33.64		33.68			33.70		33.74			
MEAN		33.49	33.56	33.57	33.57	33.62	33.65	33.65	33.75	33.71	33.66	33.60	33.60	33.62		
MAX.		33.58	33.61	33.66	33.61	33.68	33.69	33.70	33.83	33.77	33.84	33.91	33.74		33.91	
MIN.		33.30	33.49	33.46	33.53	33.41	33.58	33.59	33.68	33.60	33.54	33.50	33.51			33.30
RANGE		.28	.12	.20	.08	.27	.11	.11	.15	.17	.30	.41	.23			
STD.DEV.		.08	.03	.04	.02	.06	.03	.03	.04	.05	.08	.09	.06			

SEA WATER SUMMARY: Temperatures — Daily Surface

STATION: Scripps Pier: La Jolla Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE	JULY.	AUG	SEPT	OCT	NOV	DEC	MEAN	MAX	MIN.
1	1956	12.90	13.25	13.1	15.3	16.87	15.57	20.88	20.80	20.16	20.10	15.90	16.30			
2		13.10	12.45	12.9	13.0	16.72	15.69	20.20	21.06	20.11	19.97	15.51	16.19			
3		12.25	12.60	12.7	13.5	16.00	16.43	20.18	20.23	20.48	18.96	16.02	16.11			
4		11.77	13.10	12.93	14.2	15.94	14.00	20.61	20.82	20.42	19.40	15.70	16.10			
5		11.77	13.18	13.1	15.2	16.58	15.72	20.77	21.10	20.00	19.41	15.51	16.23			
6		11.80	12.90	13.1	14.6	15.91	15.46	20.73	21.20	19.62	19.42	15.69	16.49			
7		12.10	12.30	12.1	14.8	16.34	16.00	20.40	20.88	18.40	19.00	15.65	16.25			
8		11.85	12.80	12.0	14.6	16.77	17.08	20.93	20.93	18.52	19.30	15.60	15.82			
9		11.90	13.10	12.7	14.9	15.56	16.50	20.00	21.03	17.92	19.39	16.50	15.48			
10		12.30	12.90	11.9	14.4	15.67	17.76	19.87	21.30	18.90	18.56	15.42	15.30			
11		11.75	12.97	12.0	13.2	15.13	17.93	18.40	21.42	18.98	18.67	15.68	15.30			
12		12.08	13.30	12.3	13.9	16.14	16.83	18.40	21.22	17.52	18.90	15.76	15.22			
13		12.30	13.40	12.8	13.9	16.00	14.96	18.58	21.74	17.48	19.34	16.87	15.22			
14		12.70	13.20	13.3	14.2	15.90	17.19	19.51	22.10	17.40	19.04	15.51	15.64			
15		12.52	13.4	13.5	14.6	16.01	16.00	20.00	21.41	16.73	19.21	15.20	15.60			
16		12.70	13.2	12.9	14.75	17.20	17.32	19.40	20.40	18.21	19.11	15.03	15.31			
17		12.20	12.4	12.5	14.69	17.60	17.60	19.29	20.91	19.23	19.04	15.11	15.31			
18		12.05	12.60	13.43	14.77	16.85	17.52	20.00	21.48	19.12	17.61	14.98	15.20			
19		12.37	12.48	12.9	14.50	16.96	17.75	20.09	21.71	17.42	17.80	15.11	15.29			
20		12.90	12.9	13.5	15.07	17.03	18.00	20.72	21.57	19.45	17.92	15.60	15.00			
21		13.42	12.7	14.1	14.98	16.00	18.02	19.90	21.13	18.61	18.12	15.10	14.57			
22		13.38	12.8	14.1	14.82	17.45	17.90	20.18	19.11	18.02	18.50	15.62	14.71			
23		13.25	13.1	13.7	14.32	16.73	18.47	19.50	21.51	18.28	18.91	15.60	14.48			
24		13.39	12.7	14.5	14.70	16.20	19.32	19.50	20.89	19.18	18.27	15.53	14.80			
25		12.90	12.82	14.8	15.43	16.01	19.32	18.58	21.22	18.94	17.50	15.46	15.03			
26		12.90	13.00	14.3	15.67	16.43	19.40	19.90	21.46	18.38	16.10	15.20	14.74			
27		13.10	12.3	14.3	15.40	16.82	19.75	19.80	21.00	18.86	16.50	15.23	14.70			
28		13.34	12.9	14.4	16.31	15.65	20.17	20.71	20.72	19.08	16.90	15.08	14.84			
29		13.87	13.2	14.9	16.58	15.78	19.41	20.40	20.91	19.58	15.84	15.76	15.00			
30		13.20		14.3	16.89	16.07	19.88	20.80	21.30	19.51	15.91	16.42	15.12			
31		13.00		15.0		15.29		20.82	21.00		15.86		15.33			
MEAN		12.61	12.89	13.36	14.77	16.31	17.43	19.96	21.08	18.82	18.34	15.51	15.38	16.37		
MAX.		13.87	13.40	15.0	16.89	17.60	20.17	20.93	22.10	20.48	20.10	16.42	16.49		22.10	
MIN.		11.75	12.30	11.9	13.0	15.13	14.00	18.40	19.11	16.73	15.80	14.98	14.48			11.75
RANGE		2.12	1.10	3.10	3.89	2.47	6.17	2.53	2.99	3.75	4.30	1.44	2.01			
STD.DEV.		.52	.28	.81	.99	.63	1.52	.60	.61	.92	1.14	.33	.50			

SEA WATER SUMMARY: Salinities — Daily Surface

STATION: Scripps Pier: La Jolla, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	33.57	33.41	33.63	33.68	33.58	33.69	33.70	33.62	33.69	33.60	33.68	33.66			
2		33.58	33.50	33.64	33.64	33.60	33.70	33.71	33.71	33.69	33.58	33.68	33.65			
3		33.59	33.48	33.64	33.60	33.57	33.72	33.73	33.69	33.71	33.55	33.66	33.65			
4		33.62	33.48	33.60	33.62	33.55	33.67	33.72	33.69	33.69	33.58	33.68	33.68			
5		33.58	33.51	33.59	33.66	33.62	33.67	33.73	33.72	33.69	33.56	33.68	33.67			
6		33.58	33.37	33.60		33.58	33.64	33.72	33.71	33.68	33.59	33.63	33.64			
7		33.68	33.51	33.63	33.63	33.60	33.62	33.69	33.7,	33.62	33.55	33.62	33.66			
8		33.61	33.51	33.66	33.64	33.63	33.64	33.74	33.70	33.62	33.60	33.62	33.66			
9		33.59	33.51	33.64	33.64	33.61	33.66	33.72	33.70	33.59	33.58	33.62	33.67			
10		33.57	33.52	33.65	33.60	33.64	33.69	33.73	33.71	33.64	33.61	33.64	33.66			
11		33.59	33.57	33.68	33.60	33.63	33.68	33.66	33.73	33.58	33.60	33.62	33.63			
12		33.56	33.52	33.69	33.63	33.65	33.64	33.65	33.76	33.55	33.66	33.62	33.66			
13		33.57	33.52	33.68	33.51	33.64	33.64	33.64	33.73	33.54	33.66	33.60	33.64			
14		33.57	33.55	33.68	33.57	33.61	33.65	33.66	33.77	33.55	33.66	33.55	33.65			
15		33.57	33.56	33.60	33.60	33.68	33.64	33.67	33.73	33.54	33.69	33.61	33.65			
16		33.57	33.54	33.68	33.58	33.64	33.64	33.66	33.73	33.99	33.71	33.59	33.64			
17		33.57	33.58	33.68	33.58	33.67	33.60	33.68	33.72	33.58	33.69	33.58	33.66			
18		33.56	33.54	33.63	33.59	33.62	33.61	33.66	33.73	33.58	33.64	33.59	33.63			
19		33.57	33.58	33.66	33.63	33.64	33.62	33.66	33.75	33.53	33.63	33.56	33.62			
20		33.58	33.59	33.62	33.51	33.63	33.62	33.64	33.76	33.55	33.64	33.60	33.64			
21		33.57	33.57	33.66	33.61	33.66	33.65	33.65	33.75	33.58	33.64	33.58	33.64			
22		33.58	33.51	33.66	33.58	33.68	33.64	33.62	33.68	33.58	33.65	33.58	33.62			
23		33.58	33.53	33.64	33.61	33.65	33.65	33.66	33.71	33.57	33.71	33.60	33.68			
24		33.57	33.53	33.69	33.55	33.68	33.69	33.66	33.68	33.58	33.69	33.58	33.66			
25		33.58	33.55	33.65	33.57	33.68	33.68	33.60	33.72	33.58	33.70	33.60	33.68			
26		33.55	33.59	33.64	33.55	33.66	33.73	33.63	33.71	33.54	33.60	33.58	33.66			
27		33.20	33.62	33.64	33.55	33.66	33.68	33.61	33.73	33.57	33.60	33.59	33.68			
28		33.45	33.63	33.62	33.57	33.68	33.68	33.62	33.74	33.58	33.63	33.59	33.65			
29		33.41	33.64	33.64	33.55	33.68	33.67	33.60	33.74	33.58	33.63	33.64	33.66			
30		33.45		33.63	33.60	33.71	33.67	33.66	33.69	33.58	33.63	33.66	33.66			
31		33.41		33.66		33.72		33.64	33.77		33.62		33.68			
MEAN		33.55	33.54	33.65	33.60	33.64	33.66	33.67	33.72	33.61	33.63	33.61	33.66	33.63		
MAX.		33.68	33.64	33.69	33.68	33.72	33.73	33.74	33.77	33.99	33.71	33.68	33.68		33.99	
MIN.		33.20	33.37	33.59	33.51	33.55	33.60	33.60	33.62	33.53	33.56	33.55	33.62			33.20
RANGE		.48	.27	.10	.17	.19	.13	.14	.15	.46	.16	.13	.06			
STD.DEV.		.09	.07	.02	.04	.04	.03	.04	.03	.09	.04	.03	.02			

SEA WATER SUMMARY: Temperatures Daily Surface

STATION: Scripps Pier; La Jolla, Calif

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG	SEPT.	OCT	NOV	DEC.	MEAN	MAX	MIN
1	1957	15.40	13.87	14.50	15.20	16.54	18.28	20.70	21.28	19.50	18.12	17.93	16.54			
2		15.01	13.87	15.00	13.67	16.80	18.00	20.42	21.35	20.41	19.72	17.91	16.42			
3		15.32	13.91	15.00	13.80	16.33	18.47	16.97	21.22	19.90	18.24	18.22	16.27			
4		15.30	13.70	15.20	14.69	16.31	18.93	17.44	18.97	19.42	19.20	17.20	16.32			
5		15.12	14.09	15.22	15.00	16.62	18.73	20.22	19.52	17.81	18.93	17.20	16.25			
6		15.41	14.08	15.52	15.72	16.57	18.68	20.52	19.31	16.45	16.50	16.90	16.06			
7		15.40	14.20	15.62	14.96	17.00	19.00	20.95	19.60	17.50	17.68	17.20	16.50			
8		15.32	14.25	15.29	15.38	16.95		20.82	19.32	18.00	18.50	17.25	16.38			
9		15.23	14.00	15.68	15.48	17.50		21.45	20.03	19.56	18.16	17.20	16.28			
10		15.40	14.42	15.00	15.78	17.13	18.61	21.00	19.92	19.85	18.10	17.10	16.32			
11		15.22	14.30	15.05	15.50	13.60	18.44	21.32	20.82	18.92	17.86	17.28	16.10			
12		15.33	14.40	15.26	15.84	15.48	18.48	20.98	21.48	19.95	16.62	17.06	15.92			
13		15.41	14.30	15.30	15.90	16.40	18.60	20.84	21.82	19.70	18.22	17.04	16.20			
14		15.40	14.31	15.18	16.00	16.87	18.40	20.65	21.90	20.30	17.86	16.96	16.40			
15		15.09	14.67	15.18	17.11	16.46	18.20	20.60	22.21	20.20	17.90	16.99	16.42			
16		15.02	14.71	15.42	15.89	16.31	18.42	21.00	22.38	20.25	18.00	17.90	17.36			
17		15.07	14.72	14.38	14.60	16.91	18.53	20.82	22.10	20.20	18.40	16.03	17.30			
18		14.90	14.70	14.25	16.40	17.82	19.29	21.00	22.81	20.04	18.91	16.20	17.00			
19		14.95	14.81	14.43	16.10	18.22	20.21	21.52	22.50	20.82	18.50	16.02	16.85			
20		14.60	14.61	13.90	15.98	17.44	20.27	21.42	23.10	20.22	18.09	16.20	16.82			
21		14.39	14.42	14.09	14.30	17.91	20.05	22.20	23.83	19.97	17.85	16.40	16.90			
22		14.23	14.31	13.78	13.80	15.96	20.02	21.98	23.86	19.40	17.40	15.72	16.81			
23		14.30	13.98	14.00	14.40	16.55	20.28	21.48	23.84	19.60	17.50	15.86	16.70			
24		14.19	14.38	13.51	15.08	16.18	20.45	21.58	23.90	19.60	17.87	16.93	16.65			
25		14.40	14.46	14.25	16.00	17.28	20.30	21.20	23.72	19.90	18.13	16.10	16.58			
26		14.51	14.90	14.51	14.24	15.42	20.82	21.20	23.00	18.39	17.60	16.00	16.50			
27		14.04	14.55	15.41	14.30	17.21	20.48	21.60	22.51	16.22	17.42	16.25	16.36			
28		13.60	14.71	15.49	15.62	17.08	20.51	21.82	22.64	16.78	18.10	16.70	16.40			
29		13.58		15.32	15.86	17.32	20.60	21.22	21.42	16.61	18.00	16.60	16.31			
30		14.03		15.00	16.22	18.02	20.72	21.12	19.40	19.04	17.90	15.42	16.45			
31		13.88		13.94		17.70		21.42	17.82		18.00		16.50			
MEAN		14.81	14.34	14.83	15.29	16.77	19.35	20.87	21.55	19.15	18.13	16.76	16.50	17.96		
MAX.		15.41	14.90	15.68	17.11	18.22	20.82	22.20	23.90	20.82	19.20	17.93	17.36		23.90	
MIN.		13.58	13.70	13.51	13.67	13.60	18.00	16.19	17.82	16.22	16.50	15.42	15.92			13.58
RANGE		1.83	1.20	2.17	3.44	4.62	2.82	5.41	6.08	4.60	2.70	2.51	1.44			
STD.DEV.		.45	.30	.52	.82	.98	.14	1.35	1.49	1.15	.58	.64	.36			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: SCRIPPS PIER: LA JOLLA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	33.68	33.54	33.26	33.56	33.49		33.79	33.60	33.58	33.56	33.54	33.68			
2		33.66	33.56	33.55	33.56	33.51	33.59	33.64	33.62	33.60	33.55	33.55	33.75			
3		33.66	33.55	33.48	33.53	33.58	33.61	33.55	33.60	33.66	33.62	33.55	33.69			
4		33.66	33.57	33.48	33.57	33.49	33.68	33.55	33.55	33.54	33.72	33.55	33.68			
5		33.58	33.57	33.47	33.53	33.48	33.58	33.66	33.58	33.51	33.68	33.55	33.67			
6		33.62	33.56	33.48	33.55	33.57	33.62	33.61	33.58	33.46	33.75	33.56	33.68			
7		33.60	33.54	33.49	33.55	33.58	33.61	33.63	33.57	33.48	33.60	33.57	33.69			
8		33.52	33.57	33.47	33.57	33.55		33.66	33.55	33.48	33.63	33.57	33.69			
9		33.56	33.55	33.48	33.57	33.55		33.63	33.55	33.50	33.68	33.58	33.68			
10		33.48	33.57	33.46	33.58	33.58	33.57	33.68	33.55	33.54	33.68	33.57	33.69			
11		33.53	33.54	33.49	33.56	33.55	33.64	33.62	33.57	33.54	33.63	33.61	33.68			
12		33.48	33.55	33.48	33.57	33.53	33.60	33.64	33.58	33.53	33.58	33.57	33.68			
13		33.38	33.55	33.49	33.58	33.48	33.58	33.62	33.61	33.53	33.60	33.61	33.68			
14		33.47	33.55	33.48	33.59	33.51	33.58	33.64	33.58	33.57	33.39	33.58	33.69			
15		33.50	33.54	33.46	33.58	33.55	33.58	33.60	33.58	33.55	33.50	33.58	33.68			
16		33.50	33.55	33.47	33.58	33.51	33.62	33.61	33.58	33.64	33.54	33.62	33.69			
17		33.55	33.59	33.47	33.57	33.49	33.61	33.58	33.56	33.66	33.51	33.60	33.67			
18		33.58	33.58	33.49	33.35	33.53	33.66	33.65	33.60	33.68	33.52	33.58	33.69			
19		33.59	33.59	33.50	33.51	33.50	33.64	33.66	33.59	33.65	33.51	33.62	33.68			
20		33.59	33.58	33.50	33.62	33.53	33.60	33.67	33.63	33.64	33.53	33.60	33.68			
21		33.58	33.57	33.53	33.48	33.53	33.62	33.68	33.67	33.64	33.52	33.62	33.68			
22		33.61	33.57	33.53	33.48	33.56	33.64	33.73	33.69	33.62	33.60	33.60	33.69			
23		33.62	33.53	33.50	33.46	33.57	33.62	33.75	33.69	33.64	33.58	33.62	33.68			
24		33.59	33.55	33.54	33.47	33.58	33.66	33.68	33.62	33.63	33.59	33.60	33.69			
25		33.59	33.56	33.54	33.48	33.57	33.58	33.66	33.77	33.62	33.59	33.62	33.69			
26		33.53	33.55	33.52	33.49	33.60	33.62	33.64	33.69	33.58	33.73	33.62	33.68			
27		33.55	33.56	33.54	33.54	33.57	33.63	33.69	33.64	33.54	33.60	33.62	33.69			
28		33.58	33.55	33.51	33.49	33.57	33.64	33.68	33.62	33.51	33.66	33.66	33.69			
29		33.50		33.55	33.51	33.58	33.65	33.68	33.62	33.51	33.64	33.68	33.77			
30		33.55		33.54	33.48	33.61	33.67	33.68	33.58	33.58	33.63	33.71	33.78			
31		33.60		33.53		33.60		33.66	33.49		33.54		33.79			
MEAN		33.56	33.56	33.49	33.53	33.54	33.62	33.65	33.61	33.57	33.60	33.60	33.70	33.58		
MAX.		33.68	33.59	33.55	33.62	33.61	33.68	33.75	33.88	33.68	33.75	33.71	33.79		33.88	
MIN.		33.38	33.53	33.26	33.35	33.48	33.57	33.55	33.49	33.46	33.39	33.54	33.67			33.26
RANGE		.30	.06	.29	.27	.13	.11	.20	.39	.22	.36	.17	.12			
STD.DEV.		.07	.02	.05	.05	.03	.03	.05	.08	.05	.08	.04	.03			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER; LA JOLLA, CALIF.

DAILY SURFACE

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	16.41	15.40	15.90	16.44	18.90	16.98	20.12	17.77	20.04	19.80	19.40	16.40			
2		16.50	15.71	15.42	15.82	18.70	16.64	18.85	18.72	20.40	19.60	19.42	16.40			
3		16.20	15.92	15.28	15.86	19.20	15.39	19.80	18.39	21.10	18.60	19.70	16.40			
4		16.00	16.00	15.35	15.12	19.39	15.09	18.29	17.42	21.30	20.45	19.70	16.30			
5		16.31	15.90	15.16		18.60	17.68	20.42	18.77	21.90	20.51	19.60	16.70			
6		16.30	15.90	15.50		17.12	16.57	20.68	19.00	22.90	20.10	19.70	16.97			
7		16.00	15.94	14.88	15.24	17.38	15.90	20.65	19.64	22.00	20.30	19.10	15.94			
8		15.85	15.96	15.03	15.34	17.43	18.38	19.80	20.30	21.80	20.60	19.78	16.20			
9		16.10	16.13	15.27	15.70	17.70	17.17	17.42	20.01	21.75	20.50	19.26	16.10			
10		16.40	15.93	14.90	16.20	17.86	17.65	15.09	20.72	20.45	20.10	19.40	16.10			
11		16.31	15.83	14.80	16.35	17.17	18.45	15.24	19.46	19.00	20.60	18.90	16.20			
12		16.32	16.00	14.68	17.88	17.50	17.70	18.40	20.72	18.90	19.60	18.70	16.60			
13		16.10	16.02	14.58	17.84	17.65	18.50	18.72	24.00	17.52	19.80	18.70	17.90			
14		16.20	15.81	14.88	16.68	17.50	19.58	19.15	22.65	19.98	18.70	18.60	17.90			
15		16.05	16.01	14.68	17.15	18.25	19.62	19.30	22.90	19.40	18.80	18.43	16.60			
16		16.12	15.95	15.20	16.77	17.27	19.90	20.20	23.49	19.70	18.70	17.32	16.00			
17		16.00	16.01	15.20	16.92	18.62	19.35	18.62	22.78	19.45	18.50	16.20	16.00			
18		15.90	16.23	15.38	17.48	18.49	18.40	17.85	22.70	19.80	19.52	15.60	16.40			
19		16.10	16.03	15.28	17.58	18.20	18.00	20.00	22.43	19.75	18.98	15.50	16.00			
20		16.20	15.83	15.90	17.61	17.90	19.00	21.02	21.80	20.30	19.20	15.80	16.30			
21		16.22	16.13	15.20	17.63	17.80	19.34	21.10	20.30	19.31	19.30	15.80	17.21			
22		15.90	16.43	15.43	17.78	17.90	20.43	21.20	20.52	18.90	19.30	15.82	16.60			
23		15.55	16.27	15.26	17.84	18.10	18.30	20.10	20.22	19.70	19.60	16.63	16.80			
24		15.45	16.42	15.50	17.90	17.89	17.79	21.15	19.82	19.90	19.20		16.40			
25		15.80	16.63	15.36	17.57	16.97	18.90	19.45	20.00	18.80	19.63	16.20	16.40			
26		15.82	16.14	15.81	17.79	15.09	20.52	19.81	19.85	18.90	20.71	16.30	16.50			
27		16.00	15.73	15.96	18.26	15.03	20.20	20.51	20.00	20.82	20.00	16.42	16.50			
28		16.00	15.80	15.58	18.05	13.25	19.38	18.82	20.48	21.02	19.70	17.00	16.50			
29		16.00		15.84	18.30	13.83	20.61	20.80	20.10	20.80	20.00	17.38	16.00			
30		15.80		16.26	18.70	14.28	19.50	19.00	20.26	20.60	19.70	17.02	16.10			
31		15.83		16.16		13.23		19.57	19.92		19.90		16.20			
1-10 MEAN		16.21	15.88	15.27	15.72	18.23	16.67	19.11	19.09	21.36	20.06	19.51	16.35			
11-20 MEAN		16.13	15.97	15.06	17.23	17.86	18.85	18.25	22.29	19.38	19.24	17.38	16.59			
21-31 MEAN		15.85	16.19	15.67	17.98	15.76	19.50	20.14	20.13	19.88	19.73	16.51	16.47			
MON. MEAN		16.06	16.00	15.34	17.06	17.23	18.34	19.39	20.49	20.21	19.68	17.84	16.41	17.84		
MAX.		16.50	16.63	16.26	18.70	19.39	20.61	21.20	24.00	22.90	20.71	19.78	17.90		24.00	
MIN.		15.45	15.40	14.58	15.12	13.23	15.09	15.09	17.42	17.52	18.50	15.50	15.94			13.23
RANGE		1.05	1.23	1.68	3.58	6.16	5.52	6.11	6.58	5.38	2.21	4.28	1.96			
STD. DEV.		.26	.27	.43	.92	1.64	1.45	1.63	1.67	1.17	.57	1.15	.52			

SEA WATER SUMMARY: Salinities — Daily Surface — STATION: Scripps Pier

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.81	33.69	33.66	33.46	33.49	33.62	33.53	33.51	33.53	33.42	33.46	33.57			
2		33.78	33.69	33.64	33.40	33.55	33.57	33.64	33.53	33.49	33.46	33.55	33.56			
3		33.85	33.62	33.67		33.55	33.57	33.60	33.53	33.51	33.41	33.53	33.53			
4		33.77	33.64	33.66	32.48	33.55	33.62	33.58	33.53	33.51	33.39	33.57	33.53			
5		33.82	33.57	33.68		33.52	33.58	33.66	33.52	33.54	33.39	33.57	33.55			
6		33.82	33.64	33.59		33.50	33.60	33.54	33.55	33.54	33.41	33.53	33.58			
7		33.84	33.65	33.60	33.33	33.48	33.55	33.67	33.56	33.47	33.44	33.52	33.56			
8		33.83	33.63	33.61	33.33	33.51	33.60	33.64	33.58	33.47	33.44	33.55	33.53			
9		33.84	33.65	33.63	33.41	33.53	33.56	33.58	33.54	33.49	33.37	33.58	33.57			
10		33.75	33.67	33.62	33.37	33.55	33.58	33.57	33.54	33.48	33.44	33.59	33.57			
11		33.85	33.66	33.58	33.31	33.40	33.64	33.55	33.54	33.41	33.44	33.60	33.57			
12		33.77	33.66	33.59	33.21	33.51	33.62	33.56	33.55	33.40	33.40	33.56	33.58			
13		33.73	33.63	33.61	33.18	33.51	33.61	33.58	33.58	33.41	33.40	33.60	33.58			
14		33.73	33.63	33.58	33.16	33.51	33.64	33.62	33.58	33.41	33.40	33.59	33.62			
15		33.73	33.63	33.58	33.19	33.51	33.62	33.67		33.40	33.40	33.62	33.62			
16		33.74	33.66	33.45	33.29	33.53	33.65	33.68	33.59	33.42	33.42	33.61	33.59			
17		33.77	33.63	33.50	33.37	33.54	33.66	33.66	33.62	33.41	33.40	33.62	33.58			
18		33.75	33.63	33.50	33.30	33.55	33.67	33.58	33.60	33.39	33.40	33.57	33.58			
19		33.73	33.65	33.51	33.33	33.53	33.60	33.64	33.59	33.37	33.43	33.54	33.60			
20		33.73	33.63	33.53	33.44	33.57	33.62	33.66	33.59	33.42	33.40	33.56	33.60			
21		33.72	33.64	33.52	33.42	33.55	33.66	33.68	33.57	33.39	33.48	33.55	33.62			
22		33.73	33.60	33.42	33.47	33.57	33.67	33.64	33.54	33.39	33.42	33.54	33.58			
23			33.62	33.48	33.44	33.57	33.85	33.66	33.55	33.44	33.44	33.58	33.58			
24		33.69	33.60	33.46	33.48	33.56	33.60	33.68	33.54	33.31	33.50		33.58			
25		33.71	33.55	33.48	33.49	33.57	33.63	33.64	33.54	33.48	33.50	33.57	33.56			
26		33.51	33.61	33.47	33.49	33.58	33.63	33.64	33.51	33.42	33.51	33.54	33.58			
27		33.59	33.64	33.50	33.49	33.56	33.66	33.63	33.48	33.46	33.51	33.53	33.63			
28		33.67	33.64		33.49	33.59	33.64	33.63	33.54	33.44	33.49	33.57	33.60			
29		33.68		33.53	33.54	33.58	33.64	33.60	33.49	33.43	33.51	33.76	33.60			
30		33.68		33.49	33.54	33.58	33.62	33.55	33.36	33.46	33.53	33.58	33.58			
31		33.71		33.50		33.68		33.57	33.50		33.51		33.58			
1-10 MEAN		33.81	33.64	33.64	33.25	33.52	33.58	33.60	33.54	33.50	33.42	33.54	33.56			
11-20 MEAN		33.75	33.64	33.54	33.28	33.52	33.63	33.62	33.53	33.40	33.41	33.59	33.59			
21-31 MEAN		33.67	33.61	33.48	33.48	33.58	33.66	33.63	33.51	33.43	33.49	33.58	33.59			
MON. MEAN		33.74	33.63	33.55	33.35	33.54	33.63	33.62	33.54	33.44	33.44	33.57	33.58	33.55		
MAX.		33.85	33.69	33.68	33.54	33.68	33.85	33.68	33.62	33.54	33.53	33.76	33.63		33.85	
MIN.		33.51	33.55	33.42	32.48	33.40	33.55	33.53	33.36	33.31	33.37	33.46	33.53			32.48
RANGE		.34	.14	.26	1.06	.28	.30	.15	.26	.17	.16	.30	.10			
V.		.08	.04	.06	.20	.05	.06	.04	.05	.05	.04	.06	.02			

SEA WATER SUMMARY: TEMPERATURES SURFACE STATION: SCRIPPS PIER, LA JOLLA, CALIF

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	16.40	15.50	15.99	16.70	18.20	19.40	22.00	22.50	20.75	19.65	17.85	16.95			
2		16.50	16.10	15.55	17.50	18.20	19.50	22.30	23.00	22.00	20.65	17.75	17.45			
3		16.50	15.30	15.55	16.35	19.65	20.30	22.50	23.45	21.85	19.90	17.95	16.75			
4		16.34	15.90	15.40	17.60	19.65	19.60	21.70	23.75	21.40	20.25	18.00	16.75			
5		16.60	16.10	15.40	17.30	16.90	19.40	21.70	22.55	20.50	20.00	17.95	16.45			
6		15.80	16.00	15.60	16.95	18.10	19.40	21.70	21.85	21.70	19.75	17.15	16.95			
7		15.80	15.40	16.82	16.85	16.45	19.30	21.70	23.35	21.90	19.25	17.45	17.25			
8		15.90	15.45	16.30	16.75	18.70	17.75	18.05	23.05	22.30	19.10	17.35	17.25			
9		15.90	14.50	15.75	16.75	19.10	18.70	16.75	20.35	22.45	19.90	17.90	16.95			
10		16.52	15.00	15.75	16.65	18.40	19.80	18.80	20.40	22.45	19.90	17.55	17.35			
11		16.35	14.90	15.75	16.65	18.55	19.80	21.00	20.05	22.35	20.10	17.90	16.85			
12		15.80	14.80	15.55	16.25	18.70	20.10	22.55	20.60	22.40	20.20	17.55	16.55			
13		15.90	14.65	15.55	16.65	18.80	20.60	23.00	20.60	23.35	20.20	17.45	16.25			
14		15.80		16.32	16.55	18.45	20.00	22.35	22.20	23.25	19.85	17.75	15.35			
15		15.60	15.20	16.81	17.00	18.05	20.45	22.85	22.10	22.20	19.60	17.85	15.35			
16		15.70	14.90	16.45	16.15	18.00	20.70	22.95	22.50	20.45	19.75	17.25	15.65			
17		15.86	15.10	16.40	16.55	18.70	20.90	22.90	20.90	20.15	19.50	17.45	15.45			
18		15.82	15.10	16.45	16.45	18.95	20.80	23.15	20.00	21.40	19.60	18.00	15.95			
19		16.20	15.30	16.65	16.75	18.60	21.20	22.80	20.55	21.05	19.50	17.75	15.95			
20		15.70	15.35	16.45	16.75	18.70	21.30	22.50	20.40	20.40	19.20	17.25	16.15			
21		16.50	15.32	16.97	17.45	18.70	21.20	22.10	19.40	19.20	19.50	17.35	15.95			
22		15.90	14.82	17.02	17.65	18.65	16.00	22.10	19.35	19.20	19.20	17.15	15.75			
23		15.60	14.76	16.90	17.55	18.70	20.40	22.30	20.10	19.15	19.60	17.25	15.75			
24		16.08	15.00	16.95	17.55	18.80	19.40	22.20	20.80	19.15	19.80	17.25	15.95			
25		15.94	15.00	15.60	17.65	18.90	16.20	22.60	21.70	19.65	19.90	17.45	15.90			
26		16.40	14.70	16.20	16.85	19.10	20.00	22.60	20.95	19.20	19.70	17.65	15.50			
27		15.60	14.90	16.20	17.80	19.00	21.13	22.65	20.60	20.00	19.40	17.55	15.40			
28		16.10	15.62	16.30	17.35	18.60	21.22	22.40	20.70	20.25	19.25	17.30	15.35			
29		15.50			17.70	18.20	20.85	22.25	20.70	20.30	18.60	17.15	15.45			
30		15.80		16.60	18.00	18.70	21.40	23.05	20.85	20.35	17.45	16.95	15.45			
31		15.62		16.56		19.20		22.90	20.10		17.35		14.95			
1-10 MEAN		16.23	15.52	15.81	16.94	17.94	19.32	20.67	22.42	21.72	19.82	17.60	17.01			
11-20 MEAN		15.87	15.03	16.24	16.58	18.55	20.58	22.60	20.99	21.91	19.74	17.62	15.95			
21-31 MEAN		15.91	15.02	16.53	17.56	18.78	19.78	22.52	20.48	19.60	19.37	17.30	15.58			
MON. MEAN		16.00	15.21	16.19	17.02	18.43	19.89	21.95	21.27	21.01	19.53	17.51	16.16	18.35		
MAX.		16.60	16.10	17.02	18.00	19.20	21.40	23.15	23.75	23.25	20.25	18.00	17.45		23.75	
MIN.		15.50	14.50	15.40	16.15	16.45	16.00	16.75	19.35	18.65	17.35	16.95	14.95			14.50
RANGE		1.10	1.60	1.62	1.85	2.75	5.40	6.40	4.40	4.60	2.90	1.05	2.50			
STD. DEV.		.27	.43	.44	.46	.67	1.43	1.54	1.14	1.16	.77	.26	.61			

SEA WATER SUMMARY: SALINITIES — DAILY SURFACE

STATION: SCRIPPS PIER, LA JOLLA, CALIF

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	33.59		33.59	33.58	33.60	33.76	33.83	33.85	33.73	33.82	33.62	33.75			
2		33.61	33.57		33.59	33.64	33.78	33.82	33.85	33.82	33.81	33.80	33.77			
3		33.61	33.58	33.55	33.58	33.67	33.79	33.83	33.80	33.80	33.82	33.76	33.7.			
4		33.59	33.58	33.56	33.65	33.68	33.77	33.78	33.89	33.78	33.78	33.77	33.71			
5		33.58	33.55	33.54	33.58	33.68	33.75	33.67	33.90	33.74	33.77	33.77	33.71			
6		33.40	33.58	33.53	33.58	33.64	33.73	33.78	33.84	33.78	33.77	33.25	33.72			
7		33.55	33.58	33.49	33.58	33.69	33.68	33.78	33.87	33.82	33.76	33.25	33.69			
8		33.55	33.52	33.52	33.58	33.71	33.66	33.66	33.87	33.79	33.74	33.76	33.68			
9		33.53	33.51	33.51	33.58	33.71	33.73	33.58	33.75	33.81	33.80	33.25	33.68			
10		33.55	33.57	33.51	33.58	33.73	33.73	33.62	33.78	33.78	33.77	33.77	33.64			
11		33.57	33.55	33.51	33.58	33.72	33.73	33.66	33.76	33.77	33.78	33.81	33.71			
12		33.58	33.48	33.51	33.57	33.71	33.75	33.68	33.74	33.78	33.78	33.77	33.68			
13		33.57	33.54	33.52	33.58	33.73	33.75	33.73	33.78	33.79	33.75	33.73	33.69			
14		33.55		33.53	33.56	33.76	33.75	33.73	33.83	33.84	33.77	33.76	33.68			
15		33.54	33.60	33.53	33.58	33.72	33.73	33.74	33.80	33.82	33.78	33.77	33.67			
16		33.53	33.51	33.53	33.60	33.73	33.78	33.77	33.85	33.76	33.76	33.75	33.62			
17		33.58	33.49	33.55	33.58	33.73	33.77	33.76	33.80	33.75	33.75	33.71	33.63			
18		33.57		33.53	33.62	33.75	33.76	33.77	33.78	33.80	33.77	33.72	33.74			
19		33.55	33.57		33.63	33.76	33.77	33.75	33.80	33.77	33.73	33.76	33.64			
20		33.58	33.57	33.55	33.62	33.75	33.77	33.75	33.81	33.77	33.71	33.73	33.62			
21		33.58	33.46	33.58	33.63	33.75	33.78	33.86	33.75	33.75	33.75	33.74	33.57			
22		33.61	33.52	33.54	33.66	33.73	33.68	33.80	33.75	33.73	33.75	33.74	33.62			
23		33.60	33.57	33.56	33.64	33.74	33.77	33.81	33.78	33.69	33.75	33.74	33.60			
24		33.60	33.58	33.59	33.66	33.73	33.73	33.80	33.71	33.75	33.77	33.74	33.60			
25		33.60	33.57		33.66	33.80	33.67	33.82	33.77	33.69	33.78	33.73	33.58			
26		33.60	33.58		33.58	33.77	33.77	33.80	33.74	33.73	33.75	33.73	33.62			
27		33.60	33.55	33.59	33.61	33.79	33.83	33.82	33.69	33.73	33.71	33.71	33.58			
28		33.58	33.57	33.60	33.60	33.75	33.89	33.84	33.71	33.75	33.73	33.75	33.64			
29		33.58			33.58	33.75	33.82	33.81	33.75	33.77	33.69	33.70	33.66			
30		33.60		33.60	33.60	33.76	33.81	33.82	33.74	33.76	33.70	33.73	33.66			
31		33.60		33.58		33.77		33.82	33.78		33.71		33.62			
1-10 MEAN		33.56	33.56	33.53	33.59	33.68	33.74	33.74	33.84	33.78	33.78	33.77	33.71			
11-20 MEAN		33.56	33.54	33.53	33.59	33.74	33.76	33.72	33.80	33.78	33.76	33.75	33.67			
21-31 MEAN		33.60	33.55	33.58	33.62	33.76	33.78	33.82	33.74	33.74	33.74	33.73	33.61			
MON. MEAN		33.57	33.55	33.55	33.60	33.72	33.76	33.76	33.79	33.77	33.76	33.75	33.66	33.69		
MAX.		33.61	33.60	33.60	33.66	33.80	33.89	33.86	33.90	33.84	33.82	33.82	33.77		33.90	
MIN.		33.40	33.46	33.49	33.56	33.60	33.66	33.62	33.69	33.69	33.69	33.70	33.57			33.40
RANGE		.21	.14	.11	.10	.20	.23	.24	.21	.15	.13	.12	.20			
STD. DEV.		.04	.03	.03	.02	.05	.05	.06	.05	.04	.03	.03	.05			

SEA WATER SUMMARY: TEMPERATURES 5 METER BOTTOM STATION: SCRIPPS PIER: LA JOLLA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX	MIN.
1	1945		13.91	13.09	11.86	15.78	16.23	19.77	20.21	20.81	17.66	17.01	14.61			
2			14.13	13.16	13.00	15.52	14.40	19.51	19.90	20.13	18.33	16.61	14.29			
3		14.62		13.00	12.56	15.49	13.34	19.17	21.29	21.79	18.74	15.71	12.98			
4		14.01	14.31	13.12	12.92	15.61	13.14	18.75	22.04	22.38	17.96	15.29	13.00			
5		14.19	14.29	12.88	13.12	14.25	18.51	17.16	21.75	18.80	18.87	16.20	13.85			
6		14.51	14.33	13.07	12.92	12.26	17.11	15.58	20.65	17.27	19.33	17.33	14.00			
7		14.69	14.15	13.27	13.00	11.96	18.42	15.90	20.03	20.69	19.53		13.89			
8		14.84	14.11	13.41	13.19	11.67	18.51	16.57	17.27	21.43	19.57		13.91			
9		14.91	13.91	13.49		11.64	16.67	18.03	17.87	15.58	19.59		13.90			
10		14.91	14.05	13.42	13.01	12.52	18.23	17.86	19.43	17.91	18.13	16.20	13.28			
11		14.81	14.17	13.52	12.61	12.37	18.24	16.78	17.79	16.14	18.23	15.64	13.63			
12		14.73	14.30	14.14	13.25	13.27	17.70	17.45	18.45	16.24	18.38	14.71	14.05			
13		14.81	14.34	14.01	13.13	15.65	17.97	19.17	19.90	17.12	18.83	14.27	13.29			
14		14.90	13.79	14.19	12.59	14.79	18.16	19.42	20.52	15.82	19.08	14.30	13.10			
15		15.02	14.37	13.73	12.82	15.27	18.23	19.75	19.21	19.85	19.09	13.68	13.22			
16		14.82	14.07	13.69	11.68	15.86	18.81	19.93	20.43	18.09	18.83	14.69	13.42			
17		14.13	14.31	13.77	11.44	16.20	18.92	19.31	20.86	19.92	18.53	14.69	14.24			
18		14.53	14.73	13.75	12.17	16.61	18.62	20.17	21.00	20.20	18.43	14.35	14.63			
19		14.60	14.39	13.60	12.70	16.64	18.65	18.66	21.07	20.76	15.31	13.84	14.40			
20		14.17	13.91	13.84	14.38	11.86	18.87	17.04	21.44	20.45	17.11	13.81	14.42			
21		14.14	13.65	13.89	13.08	15.21	18.71	16.21	20.69	20.62	16.56	14.29	15.20			
22		13.89	13.60	13.49	12.60	15.40	18.73	15.84	20.13	20.25	17.33	14.80	15.30			
23		13.29	14.17		12.71	15.21	18.95	17.59	19.94	19.20	17.06	14.85	15.41			
24		13.47	14.20	12.24	13.26	15.26	18.81	20.53	20.30	17.49	17.42	15.20	15.25			
25		13.59	13.86	11.06	14.92	14.01	19.11	18.32	21.09	17.56	17.24	14.24	15.11			
26		13.51	13.60	11.40		12.48	19.35	20.54	19.62	17.43	16.06	14.99	15.24			
27		13.51	13.29	11.75		12.10	19.23	20.83	21.11	19.53	17.21	14.71	15.23			
28		13.72	13.48	11.72	15.68	15.18	19.35	20.82	21.41	18.97	17.15	12.42	15.15			
29		13.56		12.31	15.10	17.39	19.51	20.79	21.56	18.15	17.26	13.53	15.20			
30		13.42		11.62	15.82	17.53	19.73	21.17	19.24	19.01	17.23	14.73	15.13			
31		14.01		12.19		17.64		20.06	20.49		17.21		15.02			
MEAN		14.25	14.05	13.06	13.17	14.60	18.07	18.67	20.22	18.99	17.98	14.89	14.30	16.02		
MAX.		15.02	14.73	14.19	15.82	17.64	19.73	21.17	22.04	22.38	19.59	17.33	15.41		22.38	
MIN.		13.29	13.29	11.06	11.44	11.64	15.34	15.58	17.27	15.58	15.31	12.42	12.98			11.06
RANGE		1.73	1.44	3.13	4.38	6.00	6.39	5.59	4.77	6.80	4.28	4.91	2.43			
STD.DEV.		.44	.33	.80	1.18	1.61	1.57	1.43	1.18	1.74	1.05	1.18	.64			

SEA WATER SUMMARY: *Salinities* STATION: *Scripps Pier: La Jolla, Calif. Daily 5 meter (Bottom)*

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX	MIN.
1	1945		33.57	33.34	33.64	33.66	33.69	33.74	33.62	33.78	33.70	33.60	33.58			
2			33.57	33.38	33.64	33.69	33.69	33.68	33.67	33.75	33.64	33.58	33.54			
3		33.57		33.40	33.62	33.70	33.70	33.68	33.73	33.71	33.68	33.55	33.57			
4		33.60	33.57	33.31	33.62	33.70	33.70	33.71	33.73	33.68	33.69	33.60	33.66			
5		33.61	33.54	33.21	33.60	33.70	33.70	33.75	33.69	33.77	33.64	33.57	33.57			
6		33.57	33.58	33.27	33.60	33.74	33.69	33.71	33.69	33.81	33.60	33.57	33.58			
7		33.58	33.57	33.33	33.61	33.74	33.68	33.77	33.73	33.75	33.67		33.58			
8		33.62	33.54	33.46	33.60	33.71	33.68	33.74	33.75	33.73	33.70		33.62			
9		33.64	33.60	33.42		33.77	33.67	33.73	33.62	33.66	33.68		33.57			
10		33.61	33.58	33.51	33.57	33.77	33.73	33.69	33.70	33.74	33.62	33.57	33.62			
11		33.60	33.60	33.61	33.62	33.75	33.77	33.68	33.74	33.68	33.60	33.57	33.64			
12		33.67	33.67	33.60	33.66	33.74	33.74	33.73	33.78	33.71	33.61	33.53	33.61			
13		33.61	33.54	33.64	33.62	33.71	33.73	33.69	33.70	33.70	33.58	33.57	33.58			
14		33.64	33.57	33.57	33.68	33.70	33.74	33.73	33.74	33.74	33.57	33.64	33.64			
15		33.58	33.57	33.58	33.61	33.73	33.71	33.69	33.77	33.73	33.66	33.69	33.58			
16		33.55	33.50	33.57	33.62	33.73	33.74	33.69	33.74	33.70	33.57	33.64	33.62			
17		33.57	33.49	33.53	33.58	33.69	33.71	33.73	33.77	33.73	33.62	33.58	33.54			
18		33.57	33.49	33.61	33.60	33.74	33.71	33.69	33.78	33.73	33.68	33.67	33.54			
19		33.49	33.51	33.51	33.67	33.77	33.74	33.74	33.68	33.69	33.61	33.58	33.54			
20		33.51	33.57	33.62	33.68	33.71	33.68	33.69	33.67	33.71	33.69	33.66	33.57			
21		33.66	33.53	33.58	33.68	33.74	33.61	33.73	33.66	33.70	33.67	33.66	33.67			
22		33.66	33.54	33.54	33.68	33.74	33.62	33.71	33.66	33.66	33.69	33.66	33.41			
23		33.57	33.57		33.67	33.69	33.58	33.68	33.70	33.67	33.62	33.70	33.28			
24		33.60	33.57	33.46	33.69	33.73	33.61	33.74	33.67	33.61	33.66	33.64	33.22			
25		33.58	33.50	33.54	33.67	33.70	33.67	33.73	33.66	33.70	33.69	33.62	33.37			
26		33.62	33.47	33.47		33.69	33.66	33.73	33.68	33.66	33.66	33.64	33.41			
27		33.60	33.46	33.50		33.70	33.67	33.69	33.69	33.74	33.71	33.60	33.48			
28		33.55	33.42	33.57	33.68	33.67	33.71	33.71	33.74	33.64	33.61	33.57	33.51			
29		33.57		33.68	33.66	33.69	33.68	33.67	33.77	33.64	33.64	33.61	33.49			
30		33.60		33.73	33.64	33.67	33.70	33.64	33.78	33.64	33.58	33.57	33.50			
31		33.62		33.64		33.70		33.73	33.80		33.57		33.54			
MEAN		33.59	33.54	33.51	33.64	33.72	33.69	33.71	33.71	33.71	33.64	33.61	33.54	33.63		
MAX.		33.67	33.67	33.73	33.69	33.77	33.77	33.77	33.80	33.81	33.71	33.70	33.67		33.81	
MIN.		33.49	33.42	33.21	33.57	33.66	33.58	33.64	33.62	33.61	33.57	33.53	33.22			33.21
RANGE		.18	.25	.52	.12	.11	.19	.13	.18	.20	.14	.17	.45			
STD.DEV.		.04	.05	.13	.03	.13	.04	.03	.05	.05	.04	.04	.11			

SEA WATER SUMMARY: TEMPERATURES 5-METER BOTTOM STATION: SCRIPPS PIER: LA JOLLA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX	MIN.
1	1946	14.44	12.96	13.81	14.58	17.23	16.50	19.94	17.23	17.42	18.72	17.36	15.20			
2		14.96	12.68	13.64	15.01	15.93	18.15	19.95	16.85	20.84	19.50	17.01	14.93			
3		14.97	12.93	13.69	14.42	18.62	17.80	19.80	17.44	20.76		15.93	15.01			
4		14.31	12.81	13.20	15.29	17.92	18.23	20.33	18.66	20.60		16.08	15.03			
5		14.89	13.06	12.91	14.73	17.73	17.95	19.94	18.23	19.01		16.21	15.01			
6			13.16	13.09	15.24	18.15	17.66	20.21	18.43	20.13		15.80	15.49			
7		12.89	13.28	13.20	15.09	17.83	16.33	20.59	17.51	17.57		15.95	14.89			
8		13.07	13.32	13.46	15.41	18.32	18.73	20.86	20.51	18.49		15.93	14.43			
9		11.98	13.08	13.31	15.42	17.92	18.91	20.84	19.17	19.31		14.89	14.52			
10		12.13	13.06	14.12	14.42	17.69	19.20	20.88	19.31	18.09		15.63	14.51			
11		11.80	13.38	14.27	13.92	17.37	18.84	20.93	20.46	14.27	19.46	16.08	14.49			
12		11.69	12.51	13.18	14.39	17.54	19.23	20.89	21.58	14.31	19.11	15.70	14.35			
13		11.73	12.88	12.58	13.36	15.21		20.21	19.13	14.93	19.13	15.82	14.60			
14		11.64	12.97		15.90	15.39		19.05	18.79	14.61	18.42	15.76	14.23			
15		12.09	12.80	13.41	14.42	16.83		19.59	20.27	13.90	18.71	15.60	14.42			
16		12.54	13.20	13.51	15.74	17.15		14.74	18.80	14.31	18.55	15.70	14.38			
17		12.08	12.63	13.53	16.20	17.15	20.61	14.33	17.51	15.13	16.42	15.49	14.04			
18		12.81	12.90	13.07	15.55	17.73	18.23	15.63	17.03	15.18	17.72	15.31	14.01			
19		12.96	13.04	13.61	16.04	17.03	17.75	20.72	17.34	17.04	18.13	14.63	14.13			
20		13.22	12.98	13.48	16.30	17.12	19.97	17.69	21.11	18.22	18.36	15.43	14.31			
21		13.07	12.32	13.32	16.63	17.03	20.37	19.43	21.31	18.43	18.30	15.52	14.20			
22		13.06	12.13	13.40	16.83	16.94	20.50	20.62	21.01	18.85	17.75	15.83	14.13			
23		13.19	12.22	13.61	16.94	17.32	20.94	19.39	19.40	17.35	17.39	15.62	14.39			
24		13.38	12.57	13.87	17.23	17.15	20.28	19.15	19.30	16.02	18.05	15.58	14.61			
25		13.23	12.43	13.69	16.94	16.45	19.81	18.81	19.82	14.79	16.43	15.31	14.49			
26		13.38	12.61	14.11	17.03	17.33	20.61	20.13	17.83	16.21	17.91	15.41	14.39			
27		13.22	12.59	14.19	17.14	17.74	20.18	17.03	16.92	16.21	18.35	15.20	14.81			
28		13.09	13.38	14.38	17.23	15.44	20.63	16.06	17.08	15.83	17.82	15.41	14.55			
29		13.72		14.29	17.41	17.53	20.45	18.43	15.48	15.04	17.64	15.42	14.20			
30		13.32		14.31	17.16	16.44	20.84	19.42	16.48	17.24	17.75	15.41	14.17			
31		12.96		14.23		17.86		17.72	20.03		17.50		14.04			
MEAN		13.05	12.85	13.62	15.73	17.20	19.18	19.14	18.73	17.00	18.13	15.70	14.51	16.24		
MAX.		14.97	13.38	14.38	17.41	18.62	20.94	20.93	21.58	20.84	19.50	17.36	15.49		21.58	
MIN.		11.64	12.13	12.58	13.36	15.21	16.33	14.33	15.48	13.90	16.42	14.63	14.01			11.64
RANGE		3.33	1.25	1.80	4.05	3.41	4.61	6.60	6.10	6.94	3.08	2.73	1.48			
STD.DEV.		.90	.34	.44	1.00	.86	1.27	1.73	1.48	1.83	.90	.66	.36			

SEA WATER SUMMARY: SALINITIES

STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY 5 METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR	APR	MAY	JUNE	JULY	AUG.	SEPT	OCT	NOV.	DEC	YEAR	MAX	MIN
1	1946	33.48	33.51	33.66	33.54	33.70	33.68	33.77	33.71	33.62	33.68	33.57	33.64			
2		33.57	33.54	33.57	33.61	33.68	33.74	33.78	33.60	33.58	33.67	33.58	33.61			
3		33.60	33.54	33.53	33.64	33.67	33.67	33.74	33.68	33.64		33.64	33.64			
4		33.57	33.51	33.57	33.58	33.66	33.77	33.74	33.71	33.67		33.66	33.66			
5		33.57	33.53	33.57	33.70	33.61	33.75	33.80	33.64	33.61		33.58	33.60			
6			33.64	33.61	33.68	33.64	33.75	33.71	33.61	33.62		33.60	33.66			
7		33.62	33.66	33.60	33.69	33.62	33.73	33.70	33.55	33.57		33.64	33.69			
8		33.66	33.58	33.57	33.68	33.64	33.71	33.68	33.57	33.66		33.58	33.67			
9		33.55	33.51	33.68	33.64	33.62	33.71	33.68	33.60	33.61		33.54	33.68			
10		33.61	33.49	33.61	33.68	33.61	33.77	33.71	33.64	33.61		33.58	33.55			
11		33.66	33.53	33.57	33.66	33.67	33.74	33.77	33.67	33.64	33.60	33.67	33.54			
12		33.60	33.57	33.55	33.67	33.62	33.77	33.73	33.70	33.58	33.62	33.62	33.57			
13		33.58	33.51	33.61	33.68	33.69		33.70	33.69	33.54	33.61	33.48	33.67			
14		33.61	33.55		33.68	33.61		33.74	33.66	33.51	33.69	33.47	33.67			
15		33.58	33.68	33.50	33.68	33.68		33.75	33.64	33.51	33.70	33.58	33.67			
16		33.60	33.57	33.54	33.67	33.66		33.73	33.68	33.57	33.66	33.64	33.66			
17		33.49	33.64	33.54	33.62	33.64	33.77	33.66	33.66	33.62	33.61	33.55	33.64			
18		33.55	33.57	33.60	33.64	33.64	33.75	33.66	33.57	33.60	33.58	33.58	33.67			
19		33.57	33.62	33.57	33.70	33.60	33.74	33.67	33.61	33.67	33.60	33.62	33.69			
20		33.61	33.57	33.60	33.73	33.61	33.73	33.68	33.64	33.60	33.60	33.64	33.61			
21		33.57	33.62	33.58	33.66	33.66	33.73	33.73	33.67	33.58	33.61	33.58	33.61			
22		33.60	33.54	33.61	33.61	33.66	33.73	33.66	33.68	33.64	33.67	33.62	33.57			
23		33.53	33.54	33.66	33.70	33.64	33.73	33.68	33.68	33.60	33.64	33.61	33.54			
24		33.53	33.60	33.57	33.69	33.70	33.70	33.66	33.62	33.57	33.71	33.62	33.57			
25		33.64	33.57	33.67	33.71	33.73	33.70	33.57	33.68	33.57	33.61	33.61	33.68			
26		33.57	33.51	33.61	33.70	33.77	33.68	33.55	33.57	33.57	33.67	33.51	33.48			
27		33.57	33.57	33.55	33.68	33.74	33.71	33.64	33.54	33.61	33.67	33.53	33.53			
28		33.51	33.62	33.53	33.62	33.69	33.71	33.57	33.64	33.57	33.69	33.58	33.60			
29		33.57		33.50	33.62	33.74	33.75	33.67	33.57	33.57	33.58	33.54	33.62			
30		33.58		33.51	33.66	33.75	33.70	33.64	33.57	33.61	33.66	33.54	33.68			
31		33.60		33.42		33.73		33.58	33.61		33.60		33.67			
MEAN		33.58	33.57	33.58	33.66	33.67	33.73	33.69	33.63	33.60	33.64	33.59	33.62	33.63		
MAX.		33.66	33.68	33.68	33.73	33.77	33.77	33.80	33.71	33.67	33.71	33.67	33.69		33.80	
MIN.		33.48	33.49	33.42	33.54	33.60	33.67	33.55	33.54	33.51	33.58	33.47	33.48			33.42
RANGE		.18	.19	.26	.19	.17	.10	.25	.17	.16	.13	.20	.21			
STD.DEV.		.05	.05	.06	.04	.04	.03	.06	.04	.04	.04	.05	.05			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	MAX	MIN
1	1941	13.29	13.38	14.01	16.50	15.70	18.74	19.44	20.04	13.02	19.36	18.85	15.24			
2		13.32	13.20	14.32	16.59	17.04	17.11	19.45	22.47	14.01	16.45	18.14	15.41			
3		13.27	12.78	14.22	16.14	17.65	19.06	18.45	22.52	14.42	16.64	19.09	14.99			
4		13.12	12.88	14.89	15.12	17.44	17.03	17.35	21.53	14.26	17.04	16.04	14.73			
5		13.95	13.40	14.33	14.55	17.53	14.85	17.31	21.39	15.10	18.51	15.47	14.92			
6		13.71	13.75	14.31	14.22	17.95	16.53	17.95	22.07	14.95	18.39	16.11	15.03			
7		13.65	14.21	14.16	14.51	17.55	19.23	18.11	21.91	16.84	17.95	15.80	15.10			
8		13.48	13.67	13.99	14.83	16.66	16.55	18.05	21.76	18.92	18.84	15.63	14.85			
9		13.68	13.88	14.17	14.70	17.47	14.81	15.78	22.55	18.74	17.77	15.03	14.70			
10		13.59	14.09	14.65	13.63	17.53	17.00	14.17	21.06	18.33	19.09	15.19	14.52			
11		13.52	14.30	14.67	14.27	16.84	17.90	15.54	18.11	16.86	19.06	15.05	14.04			
12		13.89	13.70	14.96	13.82	17.24	17.95	17.55	16.08	16.86	17.79	15.33	14.32			
13		14.19	12.74	14.11	13.46	17.64	18.53	18.06	16.83	18.61	18.25	15.33	13.81			
14		13.61	13.79	14.13	13.59	17.59	19.20	13.43	15.85	18.76	16.75	15.01	14.23			
15		13.63	13.92	14.63	13.99	17.65	18.95	16.05	16.78		14.82	15.70	14.01			
16		13.65	13.97	14.61	15.35	18.07	19.01	17.53	18.35	19.36	15.81	15.82	13.81			
17		13.62	14.01	14.76	14.93	18.11	18.74	15.88	15.33	19.43	15.82	15.80	14.02			
18		13.56	13.92	14.44	16.05	18.32	19.31	19.61	15.73	18.44	16.35	15.90	14.01			
19		13.58	13.89	14.70	16.40	17.43	19.79	15.61	15.91	14.60	18.13	16.02	13.81			
20		13.57	14.02	14.93	16.79	17.70	19.85	17.76	15.83	16.50	18.65	15.93	13.61			
21		13.51	14.09	14.75	16.90	18.52	19.83	18.72	16.54	17.84	18.71	15.52	13.91			
22		13.68	14.23	15.00	16.83	18.49	20.14	19.31	17.95	19.75	18.24	15.69	13.71			
23		13.60	13.92	15.27	17.19	18.11	20.56	17.26	17.24	20.32	16.84	15.13	13.22			
24		13.38	14.17	15.39	16.77	18.44	20.47	15.94	17.94	21.31	17.91	15.09	13.29			
25		13.73	14.27	15.50	16.51	18.53	20.03	19.01	17.75	21.25	18.49	15.02	13.59			
26		13.71	14.09	14.87	16.74	18.62	19.97	17.10	18.28	21.28	18.82	15.11	13.65			
27		13.77	14.13	15.66	16.60	18.31	18.34	16.33	18.39	18.86	19.09	15.31	13.78			
28		13.76	14.49	16.04	13.73	18.54	16.65	16.19	18.13	19.13	19.05	14.04	13.98			
29		13.12		16.06	16.30	18.51	16.43	16.81	15.71	18.04	18.79	15.49	14.13			
30		13.19		16.32	14.21	18.47	18.79	17.05	13.82	18.85	18.95	15.43	13.63			
31		13.08		16.40		18.73		19.71	13.71		18.71		13.08			
MEAN		13.60	13.82	14.85	15.36	17.82	18.38	17.31	18.31	17.79	17.96	15.70	14.17	16.26		
MAX.		14.19	14.49	16.40	17.19	18.73	20.56	19.71	22.55	21.31	19.36	16.85	15.41		22.55	
MIN.		13.08	12.74	13.99	13.46	15.70	14.81	13.43	13.71	13.62	14.82	14.04	13.08			12.74
RANGE		1.11	1.75	2.41	3.73	3.03	5.75	6.28	8.84	7.69	4.54	4.81	2.33			
STD.DEV.		.26	.46	.64	.96	.68	1.55	1.59	2.38	2.03	1.06	1.08	.59			

SEA WATER SUMMARY: *Salinities* STATION: *Scripps Pier: La Jolla, Calif. Daily 5 meter (Bottom)*

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT	OCT.	NOV.	DEC.	MEAN	MAX	MIN.
1	1947	33.58	33.58	33.55	33.61	33.58	33.70	33.68	33.68	33.57	33.58	33.66	33.64			
2		33.67	33.58	33.57	33.61	33.58	33.61	33.60	33.66	33.55	33.57	33.60	33.64			
3		33.62	33.55	33.67	33.61	33.62	33.64	33.57	33.70	33.57	33.52	33.61	33.62			
4		33.68	33.57	33.66	33.62	33.66	33.60	33.67	33.74	33.54	33.57	33.58	33.55			
5		33.57	33.55	33.61	33.64	33.66	33.51	33.55	33.70	33.61	33.57	33.61	33.47			
6		33.57	33.57	33.62	33.69	33.67	33.58	33.57	33.74	33.57	33.54	33.54	33.51			
7		33.60	33.62	33.58	33.71	33.75	33.66	33.55	33.71	33.64	33.54	33.57	33.50			
8		33.58	33.67	33.67	33.71	33.73	33.64	33.64	33.71	33.61	33.54	33.58	33.54			
9		33.64	33.51	33.61	33.61	33.73	33.50	33.57	33.64	33.58	33.57	33.60	33.57			
10		33.67	33.55	33.58	33.57	33.77	33.55	33.55	33.69	33.58	33.62	33.54	33.55			
11		33.64	33.53	33.60	33.61	33.77	33.60	33.64	33.69	33.57	33.61	33.61	33.58			
12		33.68	33.51	33.60	33.66	33.73	33.47	33.60	33.68	33.58	33.61	33.68	33.53			
13		33.57	33.55	33.57	33.57	33.68	33.44	33.66	33.62	33.58	33.68	33.62	33.58			
14		33.69	33.54	33.67	33.62	33.73	33.53	33.57	33.61	33.64	33.55	33.62	33.53			
15		33.53	33.51	33.60	33.67	33.77	33.54	33.61	33.61		33.53	33.66	33.50			
16		33.54	33.58	33.62	33.67	33.70	33.49	33.67	33.58	33.62	33.54	33.58	33.50			
17		33.62	33.51	33.57	33.74	33.69	33.66	33.54	33.50	33.61	33.57	33.57	33.46			
18		33.60	33.57	33.61	33.71	33.67	33.60	33.61	33.49	33.57	33.62	33.60	33.46			
19		33.61	33.54	33.55	33.60	33.71	33.61	33.60	33.53	33.54	33.67	33.55	33.55			
20		33.60	33.61	33.57	33.64	33.73	33.57	33.67	33.53	33.66	33.64	33.58	33.44			
21		33.53	33.57	33.64	33.64	33.71	33.62	33.62	33.54	33.60	33.64	33.62	33.51			
22		33.60	33.51	33.62	33.61	33.74	33.57	33.60	33.58	33.57	33.68	33.62	33.46			
23		33.60	33.55	33.61	33.62	33.75	33.60	33.57	33.53	33.60	33.60	33.61	33.48			
24		33.62	33.53	33.58	33.68	33.73	33.61	33.61	33.62	33.64	33.57	33.58	33.54			
25		33.62	33.46	33.57	33.69	33.61	33.53	33.67	33.61	33.62	33.57	33.57	33.51			
26		33.60	33.47	33.62	33.62	33.77	33.62	33.66	33.66	33.61	33.57	33.62	33.51			
27		33.55	33.49	33.67	33.71	33.80	33.58	33.62	33.62	33.58	33.57	33.62	33.47			
28		33.51	33.61	33.66	33.70	33.71	33.57	33.66	33.62	33.61	33.58	33.57	33.51			
29		33.53		33.62	33.68	33.73	33.67	33.61	33.64	33.62	33.57	33.57	33.60			
30		33.49		33.62	33.70	33.73	33.69	33.68	33.54	33.60	33.54	33.57	33.57			
31		33.58		33.57		33.77		33.61	33.57		33.58		33.51			
MEAN		33.60	33.55	33.61	33.65	33.71	33.59	33.61	33.62	33.59	33.59	33.60	33.53	33.60		
MAX.		33.69	33.67	33.67	33.74	33.80	33.70	33.68	33.74	33.66	33.68	33.68	33.64		33.80	
MIN.		33.49	33.46	33.55	33.57	33.58	33.44	33.54	33.49	33.54	33.53	33.54	33.44			33.44
RANGE		.20	.21	.12	.17	.22	.26	.14	.25	.12	.15	.14	.20			
STD.DEV.		.05	.05	.03	.04	.06	.06	.04	.07	.03	.04	.04	.05			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5 METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV	DEC.	MEAN	MAX.	MIN.
1	1948	13.06	13.39	12.68	12.22	15.40	15.11	18.31	18.94	20.96	14.59	16.27	13.99			
2		13.19	13.62	12.92	14.07	13.57	16.55	18.65	17.57	20.32	14.70	16.43	14.22			
3		13.58	13.68	13.39	13.93	13.69	11.72	17.86	18.96	20.31	15.11	16.55	14.03			
4		13.54	13.22	13.63	13.88	14.24	15.30	17.97	18.09	20.83	14.77	16.42				
5		13.48	13.51	12.60	13.89	14.32	13.42	19.45	19.64	20.13	16.10	16.24	14.03			
6		13.42	13.32	13.09	14.58	16.62	14.79	15.04	15.32	17.86	16.73	16.02	13.74			
7		13.41	13.52	12.94	14.28	16.86	16.02	14.99	15.70	19.45	16.40	16.02	14.37			
8		13.33	13.20	13.19	14.91	15.85	14.17	14.94	15.73	18.15	16.54	16.38	14.30			
9		13.34	13.49	13.83	14.79	15.98	13.48	13.52	17.13	18.53	17.63	15.93	14.50			
10		13.55	13.59	13.59	14.11	16.58	14.71	13.75	19.46	17.97	17.87	15.84	14.62			
11		13.64	12.82	13.29	16.04	16.27	14.23	15.72	20.47	17.64	17.51	15.90	14.57			
12		13.75	12.68	13.38	14.51	17.46		15.99	20.22	17.35	17.01	16.01	14.41			
13		13.48	12.50	13.85	12.48	17.47		15.54	19.83	18.16	17.33	16.05	14.65			
14		13.64	12.71	13.71	14.03	17.36		18.45	17.81	19.94	17.09	16.20	14.59			
15		13.65	12.90	13.77	14.44	17.03		18.34	16.63	18.57	17.64	16.08	14.30			
16		13.60	12.78	13.71	11.92	18.33		18.66	19.99	17.84	17.17	15.72	14.03			
17		13.99	13.63	13.75	14.01	19.03		17.24	18.05	20.47	17.03	15.13	14.04			
18		14.20	13.16	13.62	15.21	18.41		15.63	16.40	19.92	16.70	15.33	14.08			
19		13.70	13.41	14.13	14.33	17.45	16.66	17.88	16.42	17.62	16.64	15.36	13.87			
20		13.48	13.69	13.79	13.97	12.29	17.24	18.12	17.29	16.05	17.15	15.13	13.70			
21		13.52	13.72	13.08	14.73	14.22	18.14	15.93	19.17	17.44	17.29	15.23	13.42			
22		14.03	13.74	13.69	15.42	16.16	17.75	17.41	20.07	17.89	17.01	14.93	13.67			
23		14.04		13.77	15.72	16.87	18.11	19.33	20.33	16.45	16.23	14.81	13.19			
24		14.13	12.46	13.90	14.92	16.56	18.34	19.71	16.40	16.34	16.50	15.07	13.60			
25		14.23	12.74	13.62	15.23	16.79	17.74	16.73	19.55	15.90	16.84	14.84	13.21			
26		14.22	13.30	13.00	15.80	17.12	18.04	15.34	20.63	15.72	16.42	15.19	13.12			
27		13.73	13.02	13.43	15.76	17.23	17.65	17.28	20.19	16.45	16.64	14.95	13.29			
28		13.38	12.72	13.44	15.80	17.45	18.06	18.46	19.07	17.05	16.50	15.11	13.54			
29		13.30	13.12	13.32	15.41	17.44	17.86	17.13	20.63	17.19	16.75	15.30	13.29			
30		13.60		13.09	14.90	17.22	17.98	18.94	18.95	15.11	16.43	15.01	13.52			
31		13.47		13.53		18.06		19.46	20.21		16.02		13.44			
MEAN		13.63	13.16	13.40	14.51	16.59	16.22	17.14	18.52	18.12	16.59	15.65	13.89	15.62		
MAX.		14.23	13.74	14.13	16.04	19.03	18.34	19.91	20.63	20.96	17.87	16.55	14.65		20.96	
MIN.		13.06	12.46	12.60	11.92	13.57	11.72	13.52	15.32	15.11	14.59	14.81	13.00			11.72
RANGE		1.17	1.28	1.53	4.12	5.46	6.62	6.19	5.31	5.85	3.28	1.74	1.65			
STD.DEV.		.30	.35	.37	1.05	1.38	1.66	1.61	1.36	1.50	.84	.45	.43			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5 METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN
1	1948	33.55	33.64	33.62	33.58	33.64	33.62	33.66	33.55	33.77	33.58	33.62	33.49			
2		33.58	33.60	33.67	33.60	33.57	33.60	33.67	33.60	33.77	33.53	33.57	33.49			
3		33.62	33.64	33.64	33.55	33.66	33.49	33.66	33.58	33.64	33.60	33.61	33.57			
4		33.58	33.60	33.60	33.61	33.68	33.57	33.62	33.61	33.66	33.58	33.55				
5		33.57	33.49	33.62	33.51	33.66	33.66	33.70	33.68	33.64	33.54	33.58	33.62			
6		33.57	33.42	33.60	33.58	33.62	33.62	33.50	33.57	33.67	33.57	33.64	33.61			
7		33.57	33.51	33.53	33.54	33.57	33.71	33.55	33.53	33.67	33.57	33.68	33.60			
8		33.61	33.55	33.50	33.61	33.71	33.66	33.51	33.61	33.55	33.58	33.62	33.61			
9		33.55	33.57	33.58	33.62	33.61	33.57	33.54	33.67	33.66	33.58	33.61	33.62			
10		33.55	33.62	33.60	33.58	33.70	33.60	33.66	33.57	33.61	33.60	33.66	33.60			
11		33.57	33.53	33.64	33.57	33.70	33.51	33.68	33.66	33.61	33.53	33.58	33.58			
12		33.57	33.54	33.61	33.55	33.60		33.64	33.67	33.64	33.55	33.60	33.57			
13		33.62	33.64	33.62	33.61	33.68		33.54	33.57	33.61	33.62	33.57	33.62			
14		33.55	33.61	33.61	33.58	33.53		33.55	33.55	33.66	33.54	33.67	33.58			
15		33.57	33.60	33.57	33.60	33.66		33.66	33.58	33.73	33.62	33.67	33.68			
16		33.64	33.62	33.57	33.51	33.61		33.61	33.62	33.60	33.61	33.57	33.62			
17		33.57	33.53	33.61	33.57	33.66		33.62	33.68	33.64	33.54	33.47	33.54			
18		33.54	33.54	33.54	33.57	33.70		33.60	33.57	33.64	33.66	33.47	33.50			
19		33.53	33.50	33.58	33.54	33.71	33.66	33.64	33.62	33.57	33.55	33.44	33.54			
20		33.54	33.44	33.62	33.62	33.71	33.61	33.71	33.54	33.57	33.60	33.44	33.66			
21		33.60	33.61	33.57	33.60	33.53	33.57	33.61	33.62	33.58	33.58	33.37	33.60			
22		33.48	33.61	33.60	33.62	33.62	33.67	33.53	33.57	33.57	33.54	33.42	33.61			
23		33.55		33.60	33.60	33.62	33.67	33.55	33.60	33.58	33.47	33.49	33.54			
24		33.58	33.62	33.62	33.57	33.64	33.54	33.54	33.62	33.60	33.57	33.47	33.55			
25		33.54	33.58	33.53	33.60	33.70	33.71	33.54	33.61	33.64	33.62	33.60	33.57			
26		33.55	33.64	33.67	33.53	33.70	33.53	33.57	33.55	33.68	33.67	33.53	33.53			
27		33.55	33.61	33.62	33.51	33.75	33.57	33.55	33.62	33.58	33.62	33.53	33.53			
28		33.60	33.57	33.54	33.54	33.74	33.61	33.54	33.55	33.66	33.54	33.49	33.53			
29		33.58	33.58	33.64	33.60	33.66	33.62	33.67	33.62	33.54	33.57	33.58	33.64			
30		33.62		33.57	33.58	33.73	33.54	33.68	33.62	33.57	33.61	33.57	33.60			
31		33.64		33.57		33.75		33.50	33.66		33.62		33.57			
MEAN		33.57	33.57	33.60	33.58	33.66	33.60	33.60	33.60	33.63	33.58	33.56	33.58	33.59		
MAX.		33.64	33.64	33.67	33.62	33.75	33.71	33.71	33.68	33.77	33.67	33.68	33.68		33.77	
MIN.		33.48	33.42	33.50	33.51	33.53	33.49	33.50	33.53	33.54	33.47	33.37	33.49			33.37
RANGE		.16	.22	.17	.11	.22	.22	.21	.15	.23	.20	.31	.19			
STD.DEV.		.04	.06	.04	.03	.06	.06	.06	.04	.06	.04	.08	.05			

SEA WATER SUMMARY: TEMPERATURES — STATION: SCRIPPS PIER: LA JOLLA, CALIF

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	13.22	12.49	13.10	13.46	16.57	17.44	18.19	19.85	20.05		15.11	16.13			
2			12.88	13.51	13.84	16.65	18.10	17.24	20.51	20.71		14.96	15.62			
3		12.63	12.69	13.30	13.51	16.71	18.74	16.77	21.93	20.21		16.64	15.33			
4		12.14	12.32	13.71	13.86	16.42	19.21	19.36	21.72	20.65		15.82	15.41			
5		12.21	12.70	13.81	14.48	16.83	19.85	18.90	20.79	20.49		15.73	15.52			
6		12.10	12.68	13.75	13.91	17.23	19.76	18.66	18.46	15.71		15.69	15.37			
7		12.13	13.00	13.63	13.54	17.85	19.93	19.84	20.17	15.49		17.13	15.29			
8		12.34	12.37	13.81	13.38	17.95	20.39	20.35	20.44	18.55		16.20	15.12			
9		12.58	12.38	13.28	13.58	17.83	17.63	19.04	21.06	21.50		15.57	1510			
10		12.08	12.50	12.49	13.02	17.54	17.44	19.11	19.13	19.47		15.52				
11		11.58	12.44	13.69	13.52	13.83	18.31	20.39	20.64	21.4		15.92	14.61			
12		11.83	12.37	12.59	12.22	15.88	17.11	19.73	17.62	17.21		15.42	13.79			
13		12.39	12.02	13.42	1289	15.94	17.03	18.19	17.09	17.32		15.81	13.41			
14		11.94	11.55	13.81	13.28	17.53	18.97	16.06	19.89	17.07		15.47	13.55			
15		12.82		13.91	13.62	17.15	18.65	15.94	20.03	17.65		15.62	13.52			
16		12.60		13.56	13.32	17.05	17.72	19.03	19.51	20.04		15.52	14.13			
17		12.28	12.40	13.59	14.55	16.27	19.50	16.53	19.94	19.90		15.21	14.21			
18		11.96	12.86	13.62	14.31	16.02	19.81	17.56	20.38	19.00		16.12	14.10			
19		12.24	13.29	13.12	14.22	15.87	20.09	18.14	20.39	20.94		15.57	14.52			
20		12.71	13.12	13.84	13.04	16.24	18.10	19.13	20.63	20.15		16.24	13.62			
21		12.78	13.22	13.18	13.77	16.62	16.84	17.70	21.11	19.80		15.71	13.81			
22		12.80	13.26	13.46	14.02	16.70	17.54	19.61	21.62	16.79		15.74	13.73			
23		12.72	13.38	13.23	15.15	16.56	19.36	20.79	20.56	15.76		15.82	13.33			
24		12.75	13.26	13.51	14.90	17.63	18.93	16.59	19.06	19.23		15.72	13.53			
25		12.68	13.41	13.02	15.72	18.33	19.03	16.96	19.75			15.86	13.83			
26		12.58	13.51	13.30	15.34	18.23	19.01	18.74	19.84		16.63	15.82	13.63			
27		12.69	13.40	12.23	15.48	18.31	18.89	16.92	19.71		16.62	15.83	13.73			
28		12.78	13.12	13.99	14.32	18.27	19.03	17.23	21.23		17.91	15.86	13.72			
29		12.59		13.23	16.31	17.63	19.69	19.81	21.04		16.28	16.23	13.92			
30		12.82		13.08	16.22	18.71	20.08	20.19	19.13		16.72	16.02	13.60			
31		12.69		13.39		17.41		19.03	19.94		15.75		13.51			
MEAN		12.46	12.79	13.39	14.09	17.02	18.74	18.44	20.08	18.95	16.65	15.80	14.29	16.06		
MAX.		13.22	13.51	13.99	16.31	18.71	20.39	20.79	21.93	21.50	17.91	17.13	16.13		21.93	
MIN.		11.58	11.55	12.23	12.22	13.83	16.84	15.94	17.09	15.49	15.75	14.96	13.33			11.55
RANGE		1.64	1.96	1.76	4.09	4.88	3.55	4.85	4.84	6.01	2.16	2.17	2.80			
STD.DEV.		.96	.47	.43	1.01	.99	.90	1.24	1.21	1.66	.68	.50	.68			

SEA WATER SUMMARY: Salinities STATION: Scripps Pier: La Jolla, Calif.

Daily (5-Meter) Bottom

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1949	33.58	33.57	33.54	33.58	33.69	33.70	33.68	33.70	33.60		33.57	33.60			
2			33.55	33.60	33.57	33.69	33.64	33.68	33.67	33.64		33.60	33.58			
3		33.57	33.55	33.58	33.62	33.69	33.66	33.66	33.64	33.62		33.64	33.58			
4		33.51	33.51	33.55	33.57	33.70	33.62	33.70	33.62	33.68		33.53	33.57			
5		33.55	33.51	33.57	33.62	33.64	33.66	33.69	33.74	33.69		33.57	33.64			
6		33.50	33.49	33.58	33.58	33.64	33.66	33.64	33.70	33.55		33.53	33.53			
7		33.66	33.57	33.51	33.64	33.66	33.64	33.68	33.73	33.49		33.48	33.60			
8		33.58	33.50	33.54	33.66	33.60	33.68	33.71	33.69	33.70		33.55	33.54			
9		33.57	33.51	33.53	33.62	33.61	33.54	33.68	33.68	33.66		33.58	33.58			
10		33.51	33.60	33.51	33.69	33.64	33.54	33.75	33.57	33.70		33.57				
11		33.54	33.54	33.58	33.55	33.58	33.57	33.75	33.57	33.74		33.57	33.55			
12		33.42	33.49	33.57	33.57	33.58	33.61	33.68	33.53	33.66		33.57	33.57			
13		33.29	33.55	33.53	33.62	33.64	33.67	33.68	33.67	33.54		33.66	33.57			
14		33.30	33.58	33.42	33.61	33.66	33.64	33.67	33.61	33.58		33.64	33.55			
15		33.48		33.58	33.67	33.69	33.67	33.66	33.61	33.60		33.57	33.57			
16		33.47		33.55	33.64	33.60	33.66	33.73	33.67	33.58		33.58	33.55			
17		33.51	33.58	33.58	33.68	33.57	33.67	33.70	33.61	33.67		33.62	33.55			
18		33.58	33.61	33.62	33.64	33.61	33.68	33.55	33.68	33.62		33.60	33.55			
19		33.54	33.57	33.58	33.66	33.64	33.70	33.57	33.66	33.62		33.62	33.55			
20		33.48	33.54	33.57	33.70	33.60	33.69	33.67	33.70	33.67		33.61	33.53			
21		33.51	33.62	33.57	33.54	33.64	33.64	33.68	33.74	33.68		33.51	33.51			
22		33.54	33.53	33.66	33.57	33.57	33.62	33.58	33.70	33.49		33.64	33.60			
23		33.54	33.54	33.51	33.64	33.62	33.69	33.68	33.64	33.53		33.57	33.57			
24		33.60	33.55	33.55	33.66	33.67	33.67	33.67	33.57	33.61		33.57	33.53			
25		33.57	33.42	33.54	33.60	33.64	33.61	33.64	33.66			33.57	33.51			
26		33.64	33.49	33.60	33.58	33.67	33.73	33.64	33.68		33.58	33.60	33.53			
27		33.67	33.48	33.64	33.57	33.67	33.70	33.57	33.67		33.66	33.57	33.55			
28		33.58	33.44	33.64	33.66	33.58	33.68	33.60	33.62		33.69	33.61	33.47			
29		33.51		33.57	33.62	33.66	33.70	33.67	33.69		33.60	33.54	33.60			
30		33.60		33.60	33.66	33.69	33.71	33.67	33.66		33.64	33.58	33.57			
31		33.58		33.57		33.66		33.67	33.67		33.61		33.46			
MEAN		33.53	33.53	33.57	33.62	33.64	33.66	33.66	33.66	33.62	33.63	33.58	33.56	33.60		
MAX.		33.67	33.62	33.66	33.70	33.70	33.73	33.75	33.74	33.74	33.69	33.66	33.64		33.75	
MIN.		33.29	33.42	33.42	33.54	33.57	33.54	33.55	33.53	33.49	33.58	33.48	33.46			33.29
RANGE		.38	.20	.24	.16	.13	.19	.20	.21	.25	.11	.18	.18			
STD.DEV.		.10	.05	.05	.04	.03	.05	.05	.05	.07	.04	.04	.04			

SEA WATER SUMMARY: Temperatures Daily (6-meter) Bottom

STATION: Scripps Pier: La Jolla, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	13.69	12.11	13.47	13.99	16.54	16.21	18.62	18.79	18.72	17.73	15.88	14.21			
2		13.55	12.32	13.59	14.59	16.74	16.41	19.27	18.51	19.35	16.14	16.97	15.11			
3		13.12	12.39	13.48	14.91	16.42	16.50	19.25	20.15	18.61	18.71	16.20	15.26			
4		13.21	12.69	13.81	15.12	16.02	16.89	19.14	19.77	19.04	18.50	16.59	15.92			
5		13.21	13.00	13.48	15.01	15.39	16.54	19.36	19.11	19.49	18.51	17.94	15.92			
6		13.10	13.20	13.73	15.13	14.62	16.40	18.87	19.14	19.43	18.75	18.12	14.91			
7		13.08	13.30	13.72	15.32	14.73	16.41	18.15	17.64	19.45	18.95	18.31	15.41			
8		13.01	12.89	13.91	15.01	14.19	15.94	18.50	16.43	19.61	18.56	17.84	15.11			
9		13.20	13.10	13.82	14.24	15.25	14.74	19.52	15.83	18.54	18.27	17.22	15.11			
10		13.23	13.44	13.38	14.80	14.43	17.31	18.01	16.04	19.64	18.01	17.51	14.41			
11		13.10	13.30	13.70	15.37	14.81	18.29	18.21	16.91	18.86	15.71	16.75	14.41			
12		13.00	13.00	13.63	15.31	14.43	14.92	17.94	16.11	18.16	14.69	15.60	13.49			
13		12.61	13.09	13.52	15.23	16.82	17.61	17.22	15.91	18.23	15.58	16.63	14.90			
14		12.51	13.21	13.40	15.20	15.79	18.13	18.79	17.52	19.36	16.74	17.01	15.93			
15		12.82	13.33	13.61	15.65	15.73	18.31	18.69	17.55	19.27	17.82	16.22	16.03			
16		12.82	13.29	13.80	16.00	16.40	18.43	19.85	19.13	19.12	15.90	16.22	16.49			
17		12.91	13.39	14.21	15.53	16.14	17.83	19.83	18.15	18.93	17.13	16.32	16.13			
18		13.11	13.30	14.01	15.71	16.12	17.73	20.05	18.56	19.24	16.71	16.32	15.56			
19		13.00	13.39	14.19	16.08	12.92	17.28	19.84	17.96	19.54	16.54	16.95	14.99			
20		12.91	13.10	14.46	16.12	15.31	17.62	20.83	16.20	19.56	17.81	16.22	14.13			
21		13.02	13.10	14.40	16.06	15.43	17.37	18.53	17.65	18.88	17.57	16.67	13.70			
22		13.00	12.53	14.44	14.74	15.54	16.94	20.86	17.53	18.90	15.39	17.00	14.02			
23		13.10	13.11	14.49	16.22	15.11	17.35	18.41	17.79	18.49	15.60	15.67	13.07			
24		13.54	13.30	14.91	16.55	15.49	17.64	20.66	18.72	17.33	16.56	15.62	12.94			
25		12.81	13.16		16.64	12.53	17.71	20.09	19.15	18.25	16.93	15.31	13.00			
26		12.10	13.00		16.81	14.13	17.73	20.64	19.20	19.83	17.07	15.01	13.82			
27		12.33	13.03	14.36	16.11	13.03	18.01	22.01	19.50	18.64	17.03	13.40	13.87			
28		11.69	13.19	12.76	16.23	14.09	15.03	19.10	19.41	16.51	17.56	13.51	14.50			
29		12.43		13.71	16.02	15.29	18.07	18.44	18.44	17.23	15.78	13.40	14.73			
30		12.19		13.60	16.13	15.41	18.84	21.53	18.20	18.06	16.33	14.31	14.79			
31		11.92		13.57		15.94		21.32	18.62		16.62		14.90			
MEAN		12.88	13.05	13.83	15.53	15.15	17.44	19.40	18.05	18.81	17.07	16.22	14.73	15.99		
MAX.		13.69	13.44	14.91	16.81	16.74	18.84	22.01	20.15	19.83	18.95	18.31	16.49		22.01	
MIN.		11.69	12.11	12.76	13.99	12.53	14.74	17.22	15.83	16.51	14.69	13.40	12.94			11.69
RANGE		2.00	1.33	2.15	2.82	4.21	4.10	4.79	4.32	3.32	4.26	4.91	3.55			
STD.DEV.		.49	.33	.45	.71	1.06	1.04	1.14	1.11	.78	1.03	1.32	.90			

SEA WATER SUMMARY: SALINITIES

STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY 5 METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1950	33.57	33.62	33.61	33.57	33.62	33.61	33.67	33.66	33.64	33.58	33.58	33.57			
2		33.58	33.64	33.54	33.57	33.57	33.58	33.69	33.61	33.58	33.53	33.57	33.61			
3		33.55	33.55	33.61	33.57	33.58	33.62	33.69	33.68	33.67	33.54	33.57	33.60			
4		33.53	33.58	33.58	33.62	33.61	33.60	33.67	33.64	33.68	33.58	33.58	33.60			
5		33.49	33.60	33.57	33.61	33.67	33.68	33.67	33.70	33.62	33.53	33.60	33.55			
6		33.54	33.57	33.53	33.58	33.47	33.62	33.71	33.58	33.57	33.53	33.62	33.57			
7		33.60	33.50	33.54	33.60	33.57	33.64	33.68	33.61	33.61	33.58	33.58	33.57			
8		33.62	33.60	33.54	33.66	33.51	33.57	33.64	33.57	33.64	33.57	33.57	33.58			
9		33.40	33.58	33.55	33.60	33.62	33.55	33.68	33.57	33.62	33.61	33.57	33.53			
10		33.41	33.57	33.53	33.57	33.60	33.57	33.70	33.54	33.58	33.62	33.61	33.54			
11		33.37	33.55	33.55	33.61	33.61	33.61	33.69	33.55	33.60	33.47	33.60	33.50			
12		33.35	33.57	33.55	33.66	33.54	33.55	33.71	33.57	33.62	33.62	33.58	33.47			
13		33.58	33.55	33.57	33.68	33.66	33.64	33.61	33.61	33.73	33.67	33.54	33.55			
14		33.42	33.51	33.54	33.57	33.60	33.70	33.62	33.61	33.62	33.57	33.49	33.54			
15		33.38	33.51	33.54	33.66	33.58	33.58	33.66	33.64	33.57	33.53	33.54	33.51			
16		33.37	33.51	33.57	33.57	33.66	33.70	33.71	33.61	33.66	33.48	33.51	33.50			
17		33.53	33.58	33.55	33.57	33.55	33.66	33.69	33.64	33.57	33.50	33.54	33.58			
18		33.49	33.54	33.60	33.62	33.57	33.67	33.69	33.57	33.60	33.55	33.61	33.60			
19		33.48	33.54	33.60	33.57	33.58	33.69	33.70	33.66	33.55	33.60	33.57	33.54			
20		33.53	33.50	33.60	33.68	33.60	33.64	33.73	33.70	33.62	33.67	33.57	33.57			
21		33.54	33.53	33.53	33.64	33.54	33.58	33.71	33.58	33.58	33.61	33.55	33.60			
22		33.55	33.55	33.57	33.57	33.55	33.57	33.73	33.58	33.66	33.61	33.61	33.67			
23		33.49	33.50	33.51	33.67	33.61	33.64	33.67	33.64	33.60	33.60	33.55	33.60			
24		33.53	33.49	33.57	33.70	33.57	33.58	33.71	33.64	33.57	33.62	33.49	33.46			
25		33.50	33.57		33.64	33.58	33.60	33.70	33.68	33.55	33.57	33.51	33.51			
26		33.53	33.54		33.58	33.60	33.60	33.73	33.58	33.60	33.61	33.48	33.50			
27		33.57	33.54	33.53	33.64	33.58	33.62	33.70	33.61	33.55	33.62	33.41	33.57			
28		33.54	33.49	33.55	33.57	33.64	33.57	33.67	33.67	33.57	33.55	33.57	33.53			
29		33.47		33.62	33.66	33.64	33.67	33.67	33.62	33.57	33.61	33.58	33.62			
30		33.54		33.67	33.57	33.64	33.67	33.71	33.61	33.64	33.58	33.51	33.60			
31		33.58		33.57		33.67		33.64	33.61		33.60		33.64			
MEAN		33.50	33.55	33.57	33.61	33.59	33.62	33.69	33.62	33.61	33.58	33.56	33.56	33.59		
MAX.		33.62	33.64	33.67	33.70	33.67	33.70	33.73	33.70	33.72	33.67	33.62	33.67		33.73	
MIN.		33.35	33.49	33.51	33.57	33.47	33.55	33.61	33.54	33.55	33.47	33.41	33.46			33.35
RANGE		.27	.15	.16	.13	.20	.15	.12	.16	.13	.20	.21	.21			
STD.DEV.		.07	.04	.03	.03	.05	.04	.03	.04	.04	.05	.05	.05			

SEA WATER SUMMARY: Temperatures (Daily 6-meter) Bottom

STATION: Scripps Pier: La Jolla, Calif.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	13.81	13.10	13.32	15.91	14.98	17.03	18.85	20.42	17.03	16.00	17.09	15.18			
2		13.41	13.20	12.86	15.82	14.05	18.11	16.55	15.01	18.13	16.23	16.43	16.38			
3		13.41	13.40	12.71	15.41	15.97	16.95	16.04	16.35		16.82	17.53	15.61			
4		13.38	13.65	12.87	14.91	15.39	17.67	18.13	19.43	17.38	17.44	17.35	16.19			
5		13.54	13.20	12.73	15.46	15.71	17.26	15.77	17.46	16.83	17.95	16.98				
6		13.51	13.20	12.61	15.63	15.31	17.58	16.24	18.74	18.22		16.77	15.87			
7		13.51	13.15	12.88	15.31	14.93	17.36	16.99	16.04	16.95		16.16	15.33			
8		13.41	13.11	13.26	15.82	14.94	17.94	17.14	17.54	18.11	17.95	16.12	14.49			
9		13.12	13.31	12.66	15.72	15.01	17.55	18.52	17.67	17.66	18.94	16.10	14.69			
10		13.21	13.21	12.70	15.31	15.84	18.10	17.69	18.03	16.13	18.36	16.93	13.93			
11		13.17	11.62	12.88	14.87	15.12	18.03	17.72	18.74	17.50	17.34	16.73	13.84			
12		13.10	13.48	12.80	15.44	16.30	17.01	15.35	18.70	16.74	17.15	16.33	14.37			
13		13.00	13.21	13.02	15.71	16.05	17.80	16.13	18.36	16.11	18.13	16.07	14.92			
14		12.83	13.10	12.81	15.74	16.31	18.63	18.59	19.01	14.12	17.25	15.93	14.37			
15		12.92	12.46	13.08	15.01	16.70	18.47	19.90	19.26	14.09	17.00	16.05	14.58			
16		12.93	12.58	13.67	15.39	16.53	18.82	19.53	17.33	15.85	17.45	16.24	14.61			
17		12.20	13.01	13.08	16.30	16.57	18.43	19.09	17.00	14.91	17.23	17.19	14.48			
18		12.51	13.63	13.55	16.07	15.80	17.53	19.43	19.21	14.21	17.05	17.23	14.58			
19		13.09	13.19	12.90	16.10	14.01	18.02	20.65	18.01	15.57	15.22	16.53	14.87			
20		12.91	13.10		16.36	13.99	17.42	19.03	16.56	14.95	16.48	16.53	14.19			
21			13.46	13.91	16.73	14.16	18.86	20.59	17.13	16.64	16.25	16.12	14.48			
22		13.00	13.58	13.51	14.98	14.83	18.13	20.79	16.90	19.71	17.36		14.32			
23		12.70	13.21	13.70	15.49	15.84	19.05	20.32	18.30	15.31	17.15	16.36	14.39			
24		12.80	13.03	15.35	16.20	15.64	18.83	20.83	16.60	16.96	17.07	16.65	14.44			
25		12.90	13.81	15.01	16.50	15.10	18.78	20.78	18.72	17.34	17.12		14.65			
26		12.30	13.70	15.31	16.12		18.72	18.37	18.91	17.41	16.41	16.00	14.46			
27		12.20	13.38	15.02	16.23	17.59	17.93	21.00	16.91	17.64	17.63	15.69	14.71			
28		13.40	12.98	15.36	16.16	14.99	17.06	21.73	16.60	17.52	18.04	15.85	14.95			
29		13.71		15.41	16.21	15.52	16.02	21.72	17.55	17.22	16.95	16.35	14.73			
30		13.30		15.52	15.50	17.90	17.62	15.63	16.88	17.73	17.64	15.85	14.64			
31		13.00		15.40		16.74		16.01	15.76		17.03		13.93			
MEAN		13.08	13.18	13.66	15.75	15.59	17.89	18.55	17.71	16.69	17.19	16.47	14.74	15.88		
MAX.		13.81	13.81	15.52	16.73	17.90	19.05	21.73	20.42	19.71	18.94	17.53	16.38		21.73	
MIN.		12.20	11.62	12.61	14.87	13.99	16.02	15.35	15.01	14.09	15.22	15.69	13.84			11.62
RANGE		1.61	2.19	2.91	1.86	3.91	3.03	6.38	5.41	5.62	3.72	1.84	2.54			
STD.DEV.		.43	.48	.77	.47	1.02	.67	1.69	1.23	1.34	.84	.46	.66			

SEA WATER SUMMARY: SALINITIES STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY 5 METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1951	33.57	33.50	33.49	33.60	33.62	33.67	33.68	33.70	33.68	33.51	33.51	33.58			
2		33.50	33.54	33.44	33.66	33.57	33.61	33.64	33.68	33.67	33.61	33.58	33.54			
3		33.48	33.48	33.44	33.54	33.64	33.62	33.60	33.61		33.53	33.62	33.55			
4		33.46	33.50	33.47	33.47	33.60	33.70	33.67	33.75	33.57	33.57	33.61	33.51			
5		33.54	33.54	33.39	33.42	33.60	33.68	33.66	33.69	33.62	33.57	33.57				
6		33.50	33.48	33.53	33.51	33.62	33.64	33.61	33.66	33.55		33.62	33.53			
7		33.44	33.57	33.53	33.48	33.66	33.61	33.60	33.60	33.62		33.54	33.47			
8		33.47	33.57	33.48	33.58	33.57	33.68	33.70	33.67	33.57	33.58	33.54	33.54			
9		33.62	33.51	33.55	33.57	33.61	33.57	33.61	33.61	33.55	33.54	33.58	33.54			
10		33.66	33.48	33.57	33.62	33.67	33.69	33.62	33.66	33.57	33.57	33.53	33.54			
11		33.55	33.44	33.51	33.58	33.61	33.68	33.66	33.66	33.57	33.61	33.54	33.51			
12		33.50	33.50	33.41	33.66	33.55	33.64	33.58	33.57	33.60	33.60	33.48	33.47			
13		33.51	33.48	33.53	33.58	33.57	33.67	33.62	33.66	33.58	33.57	33.57	33.46			
14		33.54	33.54	33.51	33.60	33.60	33.66	33.66	33.69	33.54	33.66	33.55	33.54			
15		33.46	33.62	33.49	33.61	33.61	33.71	33.61	33.64	33.53	33.54	33.50	33.55			
16		33.46	33.53	33.57	33.64	33.60	33.69	33.68	33.64	33.62	33.57	33.58	33.61			
17		33.46	33.54	33.51	33.54	33.68	33.70	33.68	33.69	33.62	33.61	33.47	33.53			
18		33.50	33.51	33.49	33.54	33.67	33.68	33.73	33.66	33.58	33.55	33.49	33.50			
19		33.42	33.55	33.51	33.55	33.60	33.67	33.73	33.67	33.57	33.54	33.46	33.54			
20		33.57	33.51		33.62	33.53	33.67	33.74	33.62	33.58	33.55	33.53	33.57			
21			33.50	33.55	33.58	33.57	33.70	33.73	33.67	33.55	33.53	33.57	33.53			
22		33.57	33.57	33.46	33.61	33.57	33.64	33.68	33.57	33.55	33.57		33.51			
23		33.54	33.57	33.57	33.64	33.60	33.62	33.64	33.64	33.57	33.51	33.51	33.46			
24		33.57	33.46	33.51	33.60	33.61	33.60	33.68	33.68	33.54	33.55	33.57	33.53			
25		33.48	33.46	33.54	33.60	33.64	33.60	33.64	33.67	33.58	33.53	33.51	33.49			
26		33.57	33.46	33.53	33.49		33.61	33.69	33.61	33.67	33.42	33.53	33.60			
27		33.51	33.49	33.49	33.54	33.66	33.68	33.66	33.57	33.61	33.46	33.55	33.57			
28		33.53	33.53	33.49	33.58	33.61	33.66	33.64	33.60	33.58	33.46	33.55	33.50			
29		33.58		33.55	33.53	33.66	33.61	33.71	33.57	33.61	33.62	33.58	33.49			
30		33.49		33.66	33.54	33.61	33.69	33.54	33.60	33.61	33.60	33.53	33.21			
31		33.51		33.62		33.62		33.57	33.58		33.51		33.30			
MEAN		33.52	33.52	33.51	33.57	33.61	33.66	33.65	33.64	33.59	33.55	33.54	33.51	33.57		
MAX.		33.66	33.62	33.66	33.66	33.68	33.71	33.74	33.75	33.68	33.66	33.62	33.61		33.75	
MIN.		33.42	33.44	33.39	33.42	33.53	33.57	33.54	33.57	33.53	33.42	33.46	33.21			3321
RANGE		.24	.18	.27	.24	.15	.14	.20	.18	.15	.24	.16	.40			
STD.DEV.		.06	.04	.06	.06	.04	.03	.05	.04	.04	.06	.04	.10			

SEA WATER SUMMARY: TEMPERATURES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	14.02	13.87	13.75	14.57	15.20	17.92	16.08	19.87	18.92	15.65	16.81	14.83			
2		13.66	13.95	13.35	14.41	15.98	17.59	16.18	18.51	19.25	17.19	16.20	14.84			
3		13.57	13.75	12.36	14.17	14.35	17.71	12.84	17.74	16.08	16.82	14.84	14.25			
4		13.57	13.67	11.97	13.04	16.00	14.81	13.64	15.02	15.45	18.34	14.95	14.15			
5		13.63	13.93	12.53	14.87	12.97	12.97	13.99	15.88	15.01	17.61	14.91	14.51			
6		13.75	13.47	13.34	14.68	14.96	13.47	13.31	17.53	16.81	17.09	14.88	15.44			
7			13.47	13.26	14.95	13.07	14.36	11.97	18.50	13.97	16.77	14.96	15.09			
8			13.80	13.37	14.67	16.96	15.02	11.88	19.79	12.54	16.25	15.98	14.75			
9		13.37	13.82	13.50	14.52	14.96	15.73	12.67	20.47	13.80	16.73	15.95	14.36			
10		13.48	13.77	13.41	13.80	15.46	15.98	12.17	20.48	15.66	16.62	15.30	14.62			
11		13.42	13.94	12.77	13.80	16.01	15.21	13.82	18.43	15.09	17.57	14.98	14.67			
12		13.69	13.70	12.97	14.93	15.89	15.88	13.65	16.81	16.31	16.99	15.02	14.44			
13		13.68	13.45	13.17	14.95	15.21	14.98	13.87	18.09	17.79	15.98	15.25	15.16			
14		13.57	13.31	12.46	14.39	16.86	15.87	14.90	17.40	17.93	16.65	15.35	15.00			
15			13.30	13.48	14.60	16.06	14.00	14.04	17.50	16.20	16.49	15.44	14.82			
16		13.67	13.89	13.37	14.07	15.08	11.97	10.96	19.59	16.79	16.09	15.12	14.78			
17		13.56	14.17	12.97	13.70	16.76	13.17	14.36	18.51	16.02	16.19	14.71	14.80			
18		13.36	13.57	13.22	14.98	16.39	13.87	16.36	16.10	16.21	17.21	14.67	14.76			
19		13.95	13.70	13.49	15.70	13.82	13.93	16.52	19.77	15.07	16.97	14.86	14.97			
20		14.13	13.25	13.15	15.38	15.57	14.49	16.99	19.10	17.40	14.30	14.91	14.90			
21		13.87	13.20	12.77	14.90	16.18	16.70	17.42	20.60	17.70	14.55	14.85	14.58			
22		13.57		12.95	15.00	16.74	15.98	18.23	17.93	16.61	14.89	15.68	14.29			
23		13.26	13.05	13.25	15.06	17.32	17.01	17.54	21.09	15.61	13.97	15.40	14.37			
24		13.36	13.55	12.81	15.07	17.48	18.20	17.09	20.41	15.28	14.71	14.37	14.34			
25		13.85	12.40	12.90	14.41	17.74	17.19	17.84	19.77	16.01	17.50	14.20	14.56			
26		14.01	12.90	13.10	15.36	17.81	15.90	18.24	19.12	15.98	17.41	14.91	14.68			
27		13.97	13.07	13.97	13.88	17.50	16.32	18.44	16.99	17.88	17.24	15.46	14.46			
28		13.67	13.20	13.99	15.30	17.62	17.88	14.81	18.09	18.00	15.41	14.30	14.27			
29		13.96	13.11	13.35	14.81	17.97	17.72	17.19	18.49	16.99	15.80	15.33	13.94			
30		13.52		14.87	15.00	17.79	17.19	18.23	20.41	15.92	16.08	15.18	13.96			
31		13.95		14.06		18.09		19.00	19.97		15.30		13.89			
MEAN		13.68	13.51	13.22	14.63	16.12	15.63	15.30	18.64	16.28	16.33	15.16	14.60	15.26		
MAX.		14.13	14.17	14.87	15.70	18.09	18.20	19.00	21.09	19.25	18.34	16.81	15.44		21.09	
MIN.		13.26	12.40	11.97	13.04	12.97	11.97	10.96	15.02	12.54	13.97	14.20	13.89			10.96
RANGE		.87	1.77	2.90	2.66	5.12	6.23	8.04	6.07	6.71	4.37	2.61	1.55			
STD.DEV.		.21	.39	.62	.59	1.36	1.53	1.98	1.46	1.62	1.04	.62	.38			

SEA WATER SUMMARY: SALINITIES

STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY 5 METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1952	33.39	33.47	33.41	33.55	33.64	33.62	33.69	33.77	33.70	33.64	33.62	33.57			
2		33.48	33.51	33.44	33.55	33.67	33.66	33.64	33.67	33.71	33.64	33.57	33.55			
3		33.47	33.55	33.55	33.54	33.58	33.70	33.61	33.66	33.68	33.66	33.53	33.51			
4		33.49	33.57	33.50	33.51	33.64	33.60	33.57	33.58	33.73	33.67	33.54	33.53			
5		33.47	33.55	33.49	33.62	33.55	33.58	33.64	33.70	33.57	33.57	33.57	33.57			
6		33.54	33.53	33.49	33.62	33.60	33.57	33.68	33.66	33.67	33.57	33.54	33.51			
7			33.55	33.51	33.55	33.62	33.66	33.57	33.75	33.62	33.67	33.50	33.51			
8			33.57	33.37	33.54	33.68	33.66	33.48	33.71	33.57	33.67	33.55	33.57			
9		33.46	33.57	33.42	33.64	33.57	33.61	33.62	33.73	33.57	33.64	33.50	33.55			
10		33.49	33.57	33.48	33.53	33.60	33.66	33.61	33.74	33.66	33.61	33.49	33.53			
11		33.54	33.55	33.57	33.49	33.60	33.62	33.64	33.66	33.60	33.60	33.50	33.54			
12		33.57	33.62	33.58	33.41	33.58	33.61	33.67	33.73	33.62	33.62	33.54	33.55			
13		33.38	33.55	33.53	33.44	33.57	33.66	33.64	33.77	33.62	33.60	33.54	33.51			
14		33.46	33.57	33.49	33.48	33.60	33.60	33.60	33.69	33.60	33.58	33.55	33.54			
15			33.57	33.57	33.57	33.61	33.67	33.67	33.75	33.58	33.58	33.53	33.55			
16		33.41	33.58	33.35	33.57	33.58	33.57	33.61	33.70	33.68	33.62	33.46	33.53			
17		33.48	33.60	33.41	33.55	33.64	33.57	33.64	33.67	33.61	33.61	33.51	33.57			
18		33.02	33.51	33.55	33.62	33.67	33.64	33.73	33.71	33.62	33.67	33.54	33.55			
19		33.08	33.53	33.60	33.60	33.57	33.64	33.62	33.71	33.62	33.66	33.51	33.61			
20		33.27	33.54	33.58	33.64	33.64	33.66	33.66	33.66	33.64	33.55	33.54	33.50			
21		33.27	33.61	33.53	33.61	33.62	33.67	33.66	33.77	33.71	33.57	33.57	33.53			
22		33.38		33.55	33.60	33.67	33.68	33.73	33.67	33.61	33.61	33.55	33.53			
23		33.49	33.48	33.57	33.60	33.67	33.67	33.67	33.78	33.70	33.55	33.49	33.53			
24		33.46	33.46	33.53	33.55	33.73	33.68	33.67	33.74	33.64	33.57	33.50	33.49			
25		33.38	33.58	33.51	33.54	33.70	33.69	33.62	33.70	33.64	33.54	33.54	33.55			
26		33.39	33.50	33.57	33.61	33.69	33.61	33.70	33.75	33.62	33.57	33.57	33.50			
27		33.40	33.57	33.54	33.57	33.70	33.66	33.66	33.77	33.64	33.57	33.50	33.54			
28		33.38	33.55	33.49	33.62	33.68	33.67	33.67	33.80	33.70	33.55	33.55	33.47			
29		33.48	33.53	33.48	33.60	33.66	33.60	33.66	33.77	33.61	33.55	33.55	33.47			
30		33.51		33.57	33.66	33.69	33.66	33.74	33.75	33.62	33.61	33.49	33.51			
31		33.50		33.53		33.58		33.71	33.75		33.57		33.60			
MEAN		33.42	33.55	33.51	33.57	33.63	33.64	33.65	33.72	33.64	33.60	33.53	33.53	33.58		
MAX.		33.57	33.62	33.60	33.66	33.73	33.70	33.74	33.80	33.73	33.67	33.62	33.61		33.80	
MIN.		33.02	33.46	33.35	33.41	33.55	33.57	33.48	33.58	33.57	33.54	33.46	33.47			33.02
RANGE		.55	.16	.25	.25	.18	.13	.26	.22	.16	.13	.16	.14			
STD.DEV.		.14	.04	.06	.06	.04	.03	.06	.05	.04	.03	.03	.04			

SEA WATER SUMMARY: TEMPERATURES
DAILY (5-METER) BOTTOM

STATION: SCRIPPS PIER: LA JOLLA, CALIF.

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	14.04	13.83	12.59	13.96	15.48	14.56	18.23	20.99	18.17	14.94	17.29	14.98			
2		13.94	13.37	11.94	13.97	16.83	13.97	17.13	19.09	19.14	14.91	16.96	14.34			
3		14.32	13.40	11.78	14.05	16.28	13.70	16.99	19.38	17.52	15.88	17.28	14.08			
4		14.06	13.49	12.36	13.08	14.87	13.75	19.11	20.03	18.68	15.50	17.09	14.61			
5		14.01	13.59	12.50	13.79	15.47	14.26	18.34	19.96	18.90	15.61	17.77	14.68			
6		14.35	13.60	13.17	13.92	15.72	15.47	18.53	20.52	18.10	16.33	16.93	14.58			
7		14.29	14.41	14.17	13.36	15.86	15.80	18.15	19.10	18.19	16.56	18.12	13.24			
8		14.45	14.17	13.66	13.97	14.98	16.08	18.10	20.54	16.19	17.64	17.54	13.97			
9		14.46	13.17	13.16	14.06	15.42	15.96	16.99	21.08	15.28	18.10	16.82	13.90			
10		14.68	12.87	13.37	12.95	13.16	16.36	17.09	19.81	17.63	19.91	16.86	13.80			
11		14.50	13.27	12.95	12.69	13.09	16.82	20.33	19.14	17.52	17.21	17.09	13.67			
12		14.61	13.80	12.35	12.70	13.47	16.52	21.31	18.69	18.92	18.00	15.68	14.24			
13		14.48	13.57	13.15	13.46	15.17	14.45	21.27	19.49		17.98	15.72	14.37			
14		14.43	13.86	14.29	13.55	15.35	15.28	18.10	18.63	18.33	17.50	16.07	14.22			
15		14.07	14.19	14.90	13.70	14.98	15.65	20.85	21.30	18.29	17.92	16.30	14.29			
16		13.80	13.71	13.70	14.26	15.28	15.87	21.10	20.50	18.10	17.89	15.77	14.41			
17		14.27	13.57	13.56	14.20	15.47	15.72	22.70	20.09	17.17	19.20	16.08	14.81			
18		14.09	13.40	13.66	15.08	15.62	15.95	21.28	19.23	17.19	18.40	15.06	14.98			
19		13.70	12.75	13.55	15.22	15.13	16.82	22.90	18.79	17.90	18.35	13.44	15.80			
20		14.07	12.00	13.87	14.77	15.31	18.53	21.90	19.00	17.82	16.72	15.18	14.87			
21		14.00	12.25	14.06	14.85	15.51	18.83	18.47	18.78	18.08	16.81	14.17	14.48			
22		13.36	12.36	13.80	14.75	15.67	17.09	18.67	19.11	15.28	16.96	14.60	14.17			
23		13.27		13.71	15.27	16.42	16.82	19.38	19.57	16.07	15.88	14.07	12.57			
24		14.38	11.15	14.11	15.51	16.73	16.57	19.00	19.41	14.67	18.00	13.97	13.37			
25		13.87	11.80	14.10	16.40	16.28	18.53	20.84	17.09	15.08	17.58	13.97	14.17			
26		12.97	11.87	14.11	14.43	16.08	18.30	20.59	17.07	12.89	17.16	14.35	14.58			
27		12.70	11.96	13.85	15.51	16.13	19.59	20.42	16.81	13.82	17.19	14.81	13.87			
28		12.77	12.57	15.08	15.05	15.38	18.73	18.67	17.44	14.05	17.17	15.36	13.57			
29		13.16			14.98	14.27	17.83	19.67	20.39	14.91	17.19	15.10	12.57			
30		13.26		13.40	15.28	15.08	18.45	18.10	16.32	14.98	17.09	14.37	13.57			
31		13.79		13.67		13.24		19.52	17.11		17.90		14.38			
MEAN		13.94	13.11	13.49	14.29	15.28	16.41	19.48	19.18	16.86	17.21	15.79	14.17	15.77		
MAX.		14.68	14.41	15.08	16.40	16.83	19.59	22.90	21.30	19.14	19.91	18.12	15.80		22.90	
MIN.		12.70	11.15	11.78	12.69	13.09	13.70	16.99	16.32	12.89	14.91	13.44	12.57			11.15
RANGE		1.98	3.26	3.30	3.71	3.74	5.89	5.91	4.98	6.25	5.00	4.68	3.23			
STD.DEV.		.52	.79	.86	.89	.99	1.50	1.57	1.25	1.56	1.25	1.16	.76			

SEA WATER SUMMARY: SALINITIES

STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY 5 METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1953	33.57	33.49	33.61	33.57	33.64	33.53	33.66	33.74	33.64	33.61	33.58	33.61			
2		33.54	33.47	33.50	33.58	33.67	33.57	33.57	33.74	33.62	33.55	33.57	33.57			
3		33.57	33.57	33.50	33.58	33.68	33.62	33.67	33.70	33.64	33.61	33.57	33.60			
4		33.62	33.58	33.57	33.53	33.64	33.61	33.62	33.67	33.67	33.60	33.57	33.57			
5		33.54	33.53	33.55	33.54	33.67	33.62	33.61	33.74	33.68	33.58	33.60	33.60			
6		33.51	33.57	33.51	33.53	33.57	33.57	33.62	33.74	33.61	33.54	33.55	33.62			
7		33.46	33.57	33.47	33.54	33.60	33.57	33.62	33.73	33.62	33.58	33.58	33.60			
8		33.48	33.49	33.48	33.51	33.60	33.68	33.62	33.66	33.60	33.58	33.57	33.57			
9		33.51	33.58	33.55	33.62	33.55	33.67	33.64	33.70	33.57	33.58	33.57	33.58			
10		33.53	33.55	33.54	33.55	33.60	33.66	33.70	33.70	33.61	33.57	33.60	33.55			
11		33.49	33.55	33.54	33.51	33.57	33.62	33.71	33.66	33.62	33.60	33.58	33.51			
12		33.50	33.49	33.54	33.50	33.57	33.61	33.67	33.67	33.64	33.55	33.55	33.54			
13		33.55	33.55	33.50	33.51	33.58	33.61	33.68	33.71		33.55	33.54	33.54			
14		33.50	33.54	33.58	33.53	33.58	33.60	33.66	33.70	33.57	33.57	33.55	33.61			
15		33.54	33.62	33.57	33.54	33.62	33.60	33.70	33.70	33.60	33.54	33.64	33.58			
16		33.48	33.58	33.57	33.55	33.60	33.57	33.70	33.70	33.68	33.55	33.61	33.64			
17		33.55	33.50	33.57	33.55	33.64	33.62	33.74	33.69	33.60	33.57	33.57	33.58			
18		33.57	33.53	33.57	33.57	33.57	33.57	33.75	33.69	33.57	33.51	33.57	33.58			
19		33.51	33.49	33.60	33.57	33.67	33.64	33.78	33.71	33.67	33.61	33.62	33.57			
20		33.48	33.57	33.58	33.57	33.61	33.64	33.70	33.71	33.58	33.54	33.58	33.60			
21		33.44	33.54	33.57	33.54	33.67	33.64	33.64	33.64	33.58	33.66	33.61	33.53			
22		33.50	33.55	33.60	33.57	33.58	33.57	33.67	33.77	33.60	33.61	33.60	33.57			
23		33.55		33.60	33.60	33.67	33.64	33.71	33.68	33.61	33.64	33.57	33.60			
24		33.48	33.50	33.62	33.62	33.69	33.64	33.70	33.73	33.57	33.57	33.64	33.55			
25		33.47	33.54	33.62	33.62	33.61	33.61	33.71	33.58	33.58	33.61	33.57	33.57			
26		33.49	33.55	33.64	33.57	33.58	33.61	33.70	33.57	33.51	33.60	33.57	33.60			
27		33.53	33.53	33.55	33.57	33.64	33.61	33.71	33.61	33.55	33.70	33.55	33.60			
28		33.57	33.57	33.62	33.55	33.67	33.62	33.74	33.66	33.50	33.60	33.57	33.57			
29		33.55			33.54	33.61	33.57	33.75	33.64	33.58	33.60	33.58	33.58			
30		33.58		33.54	33.62	33.57	33.67	33.71	33.54	33.66	33.61	33.58	33.64			
31		33.55		33.61		33.55		33.68	33.54		33.61		33.61			
MEAN		33.52	33.54	33.56	33.56	33.62	33.61	33.68	33.68	33.60	33.59	33.58	33.58	33.59		
MAX.		33.62	33.62	33.64	33.62	33.69	33.68	33.78	33.77	33.68	33.70	33.64	33.64		33.78	
MIN.		33.44	33.47	33.47	33.50	33.55	33.53	33.57	33.54	33.50	33.51	33.54	33.51			33.44
RANGE		.18	.15	.17	.12	.14	.15	.21	.23	.18	.21	.10	.13			
STD.DEV.		.04	.03	.04	.03	.04	.03	.05	.06	.05	.04	.02	.03			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	14.15	13.70	14.71	14.25	15.08	18.26	16.81	21.29	19.20	17.62	15.38	15.53			
2		14.68	13.38	14.48	14.12	12.91	17.91	18.76	20.49	18.49	18.09	15.68	15.48			
3		14.16	13.69	14.48	14.41	13.91	17.81	19.53	21.60	16.69	16.73	15.62	15.81			
4		13.97	13.85	14.71	13.02	15.61	17.62	18.88	21.60	19.41	17.09	15.58	15.71			
5		13.77	13.91	14.94	13.71	15.32	17.71	18.93	21.50	19.57	17.32	15.40	16.49			
6		14.43	14.78	15.08	13.80	15.38	17.99	19.49	21.70	19.19	17.18	16.62	15.70			
7		14.20	14.60	15.25	13.91	15.18	17.61	19.44	22.07	20.66	17.30	16.09	15.38			
8		14.20	14.92	14.45	14.42	16.11	18.09	19.62	19.96	18.92	16.66	15.77	15.19			
9			14.85	14.48	14.68	15.92	18.59	20.99	22.00	20.36	17.89	15.19	15.38			
10			13.88	14.48	15.07	16.09	16.39	21.19	22.20	20.66	16.81	16.19	14.95			
11		14.20	14.18	14.28	15.18	15.90	18.13	21.07	16.09	21.83	16.52	15.91	15.47			
12		14.50	14.46	13.18	14.91	13.31	19.37	21.32	19.07		16.29	16.76	15.09			
13		14.50	14.08	13.09	15.08	13.26	17.99	22.00	20.76	19.59	16.28	16.81	14.18			
14		15.20	14.71	13.02	15.20	14.26	16.41	20.52	21.93	19.46	16.41	17.29	14.04			
15		14.20	13.48	13.08	15.29	16.61	17.76	20.99	21.60	18.38	16.18	17.26	14.30			
16		13.80	13.68	12.33	14.46	16.69	17.83	19.68	21.09	18.09	15.81	16.68	14.08			
17		14.80	14.08	13.18	14.10	16.30	17.09	22.81	19.67	18.76	15.30	16.32	13.79			
18			13.80	12.98	14.08	16.18	16.39	22.98	19.66	18.09	14.98	16.39				
19			13.85	13.20	14.31	16.41	17.81	22.06	20.69	18.67	14.48	16.29				
20			14.29	13.58	14.60	16.86	17.62	19.86	19.88	18.09	15.10	17.08				
21		13.80	14.40	13.58	14.48	16.72	17.89	21.39	20.99	16.27	16.59	16.95	15.58			
22		13.70	14.70	13.48	14.42	17.11	17.76	21.19	20.79	16.19	17.32	16.39	15.15			
23		14.70	14.18	13.22	14.59	17.87	18.13	21.20	20.86	17.16	17.59	16.08	14.79			
24		14.70	14.29	12.98	14.31	16.91	17.91	20.47	20.68	17.89	17.59	16.02				
25		14.30	13.85	13.28	15.42	17.09	17.39	20.41	20.61	18.61	16.89	16.39				
26		13.29	14.17	13.51	14.88	16.81	18.82	21.19	20.09	18.29	16.18	16.15				
27		13.38	14.91	14.20	14.46	17.33	19.06	19.09	19.82	16.82	15.71	16.91	14.20			
28		13.40	14.77	14.50	14.48	17.25	18.91	19.89	21.21	16.69	15.12	16.39	14.14			
29		13.55		14.19	14.88	17.79	18.72	19.79	21.29	16.53	15.25	16.29	13.39			
30		14.08		14.08	14.75	18.39	18.68	22.00	20.21	17.52	16.29	15.61	13.74			
31		13.83		13.87		18.50		20.51	18.71		15.81		13.85			
MEAN		14.13	14.19	13.87	14.51	16.10	17.92	20.45	20.65	18.49	16.46	16.25	14.86	16.49		
MAX.		15.20	14.92	15.25	15.42	18.50	19.37	22.98	22.20	21.83	18.09	17.29	16.49		22.98	
MIN.		13.29	13.38	12.33	13.02	12.91	16.39	16.81	16.09	16.19	14.48	15.19	13.39			12.33
RANGE		1.91	1.54	2.92	2.40	5.59	2.98	6.17	5.11	5.64	3.61	2.10	3.10			
STD.DEV.		.47	.41	.68	.54	1.45	.77	1.38	1.28	1.38	.88	.54	.74			

SEA WATER SUMMARY: *Salinities*

STATION: *Scripps Pier: La Jolla, Calif*
Daily 5 meter (Bottom)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1954	33.64	33.49	33.50	33.58	33.69	33.66	33.64	33.69	33.69	33.62	33.54	33.60			
2		33.60	33.53	33.55	33.55	33.58	33.66	33.66	33.68	33.70	33.62	33.58	33.61			
3		33.62	33.48	33.51	33.61	33.64	33.62	33.67	33.70	33.66	33.58	33.57	33.60			
4		33.61	33.53	33.53	33.61	33.64	33.68	33.66	33.69	33.67	33.58	33.58	33.57			
5		33.57	33.50	33.54	33.66	33.67	33.66	33.68	33.68	33.68	33.57	33.58	33.60			
6		33.57	33.58	33.57	33.62	33.66	33.68	33.70	33.68	33.67	33.58	33.57	33.58			
7		33.53	33.57	33.58	33.57	33.57	33.66	33.73	33.67	33.62	33.61	33.55	33.58			
8		33.57	33.55	33.47	33.62	33.66	33.69	33.67	33.64	33.68	33.57	33.54	33.57			
9			33.54	33.49	33.57	33.60	33.62	33.74	33.70	33.68	33.66	33.55	33.57			
10			33.57	33.51	33.57	33.61	33.64	33.68	33.69	33.69	33.61	33.57	33.50			
11		33.57	33.57	33.55	33.50	33.60	33.68	33.68	33.58	33.70	33.55	33.53	33.53			
12		33.58	33.49	33.50	33.54	33.57	33.64	33.69	33.61		33.62	33.49	33.60			
13		33.54	33.51	33.57	33.62	33.60	33.64	33.66	33.67	33.67	33.61	33.55	33.55			
14		33.55	33.28	33.60	33.57	33.62	33.58	33.66	33.74	33.62	33.57	33.58	33.54			
15		33.57	33.42	33.57	33.64	33.58	33.60	33.66	33.69	33.58	33.57	33.58	33.53			
16		33.60	33.46	33.50	33.58	33.61	33.66	33.62	33.69	33.66	33.57	33.55	33.53			
17		33.58	33.57	33.49	33.60	33.64	33.71	33.67	33.64	33.62	33.58	33.55	33.60			
18			33.51	33.54	33.60	33.57	33.66	33.68	33.69	33.57	33.58	33.57				
19			33.51	33.50	33.61	33.64	33.68	33.60	33.70	33.64	33.58	33.57				
20			33.54	33.57	33.60	33.62	33.70	33.69	33.67	33.61	33.57	33.61				
21		33.42	33.55	33.53	33.62	33.62	33.71	33.68	33.69	33.57	33.54	33.57	33.61			
22		33.57	33.50	33.47	33.67	33.67	33.68	33.68	33.68	33.57	33.57	33.58	33.60			
23		33.54	33.51	33.03	33.64	33.64	33.61	33.62	33.71	33.68	33.58	33.58	33.57			
24		33.53	33.54	32.92	33.67	33.61	33.67	33.74	33.66	33.66	33.61	33.57				
25		33.39	33.54	33.27	33.58	33.64	33.64	33.71	33.67	33.61	33.54	33.57				
26		33.49	33.57	33.40	33.57	33.69	33.71	33.71	33.60	33.69	33.58	33.57				
27		33.57	33.53	33.50	33.62	33.66	33.68	33.66	33.66	33.66	33.57	33.55	33.55			
28		33.54	33.50	33.50	33.61	33.67	33.67	33.69	33.74	33.61	33.61	33.58	33.57			
29		33.55		33.58	33.68	33.67	33.69	33.69	33.71	33.68	33.60	33.57	33.58			
30		33.55		33.61	33.67	33.69	33.68	33.75	33.68	33.64	33.55	33.62	33.54			
31		33.51		33.57		33.73		33.70	33.60		33.57		33.60			
MEAN		33.55	33.52	33.48	33.61	33.63	33.66	33.68	33.67	33.65	33.58	33.57	33.57	33.60		
MAX.		33.64	33.58	33.61	33.68	33.73	33.71	33.75	33.74	33.70	33.66	33.62	33.61		33.75	
MIN.		33.39	33.28	32.92	33.50	33.57	33.58	33.60	33.58	33.57	33.54	33.49	33.50			32.92
RANGE		.25	.30	.69	.18	.16	.13	.15	.16	.13	.12	.13	.11			
STD.DEV.		.06	.06	.17	.04	.04	.03	.04	.04	.04	.03	.03	.03			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY 5-METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	13.88					15.56	18.30	18.90	21.10	14.80	16.08	14.60			
2		13.71					16.21	18.30	17.40	18.70	15.82	16.40	14.50			
3		13.19					16.40	18.80	17.50	20.73	15.20	16.50	14.40			
4		13.34					19.32	18.89	21.00	17.00	16.37	16.12	14.10			
5		13.68					18.45	18.12	18.90	17.70	17.10	16.30	14.00			
6		13.74					18.36	17.81	19.17	18.40	17.08	16.35	14.10			
7		13.67					17.59	18.10	18.84	19.05	17.55	16.70	14.30			
8		14.16					17.69	18.60	19.85	17.40	17.34	16.40	14.09			
9		13.85					17.76	19.90	20.60	21.30	18.40	16.10	14.20			
10		13.65					16.13	19.62	22.70	20.80	18.10	15.24	14.41			
11							18.22	18.50	22.60	18.60	18.05	15.31	13.90			
12							18.09	19.85	20.40	19.78	18.00	15.69	13.90			
13		13.68					17.99	19.72	19.00	19.90	17.88	15.92	13.80			
14		13.67					18.69	19.07	20.98	17.40	17.86	16.21	14.00			
15		13.64					17.92	18.31	20.90	15.85	18.42	15.70	13.85			
16		13.68					17.59	20.38	22.60	17.13	17.72	15.60	13.80			
17							18.09	19.27	20.80	20.77	17.28	15.71	13.55			
18							17.61	19.80	21.05	20.12	17.26	15.40	12.91			
19							17.01	19.43	20.55	20.55	17.23	15.80	13.20			
20							17.09	14.90	19.60	20.80	16.76	15.60	13.07			
21							17.21	15.52	17.80	19.00	16.65	15.40	13.10			
22							18.11	15.65	20.80	19.90	16.90	14.93	12.80			
23							16.92	14.48	16.85	20.28	16.88	15.03	12.80			
24							14.90	14.53	18.00	19.90	16.40	15.52	13.32			
25							17.21	19.00	16.80	20.33	16.80	14.95	14.40			
26						16.09	17.45	18.75	18.30	19.28	16.55	15.21	14.18			
27						15.99	17.80	17.20	15.42	18.60	16.39	14.60	14.30			
28						18.31	18.30	16.70	15.74	17.70	16.48	14.46	13.52			
29						18.29	16.80	17.20	17.10	16.00	16.30	14.55	12.60			
30						17.75	17.96	20.02	18.45	16.00	16.92	14.56	13.25			
31						16.39		20.60	21.00		16.25		12.90			
MEAN		13.68				17.14	17.48	18.24	19.34	19.00	16.99	15.61	13.74			
MAX.		14.16				18.31	19.32	20.60	22.70	21.30	18.42	16.70	14.60			
MIN.		13.19				15.99	14.90	14.48	15.42	15.85	14.80	14.46	12.60			
RANGE		.97				2.32	4.42	6.12	7.28	5.45	3.62	2.24	2.00			
STD.DEV.		.21				1.01	.93	1.64	1.92	1.60	.85	.63	.58			

SEA WATER SUMMARY: SALINITIES

STATION: SCRIPPS PIER: LA JOLLA, CALIF.
DAILY 5 METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1955	33.60					33.61	33.63	33.65		33.51	33.70	33.44			
2		33.54					33.62	33.62	33.58		33.53	33.59	33.58			
3		33.51					33.58		33.58		33.53	33.59	33.56			
4		33.48					33.64		33.68		33.55	33.56	33.52			
5		33.51					33.64	33.62	33.64		33.60	33.59	33.55			
6		33.47					33.68		33.68		33.60	33.91	33.53			
7		33.46					33.64		33.64		33.64	33.61	33.57			
8		33.41					33.64	33.60	33.65		33.57	33.55	33.52			
9		33.46					33.67	33.67	33.67		33.65	33.57	33.56			
10		33.38					33.67	33.65	33.75		33.65	33.50	33.58			
11							33.61	33.63	33.75		33.71	33.54	33.61			
12							33.67		33.74		33.69	33.86	33.60			
13		33.41					33.67	33.66	33.71		33.70	33.69	33.53			
14		33.48					33.64		33.78		33.71	33.55	33.61			
15		33.54					33.62	33.63	33.75		33.69	33.58	33.54			
16		33.49					33.66	33.66	33.78		33.69	33.56	33.60			
17							33.62	33.64	33.74	33.68	33.63	33.59	33.62			
18							33.60	33.64	33.75	33.69	33.68	33.53	33.56			
19							33.64	33.61		33.71	33.87	33.53	33.56			
20							33.69	33.55		33.74	33.57	33.54	33.60			
21							33.66	33.54		33.62	33.92	33.54	33.50			
22							33.67	33.53		33.70	33.60	33.48	33.53			
23							33.66	33.52		33.73	33.61	33.53	33.57			
24							33.62	33.54		33.74	33.77	33.56	33.58			
25							33.59	33.60		33.73	33.66	33.58	33.65			
26						33.64	33.57	33.58		33.73	33.62	33.54	33.60			
27						33.64	33.56	33.60		33.69	33.69	33.54	33.63			
28						33.57	33.61	33.65		33.62	33.82	33.78	33.61			
29						33.60	33.60	33.57		33.58	33.68	33.51	33.54			
30						33.58		33.66		33.52	33.85	33.58	33.64			
31						33.61		33.68			33.58		33.50			
MEAN		33.48				33.61	33.63	33.61	33.70	33.68	33.66	33.59	33.57			
MAX.		33.60				33.64	33.69	33.68	33.78	33.74	33.92	33.91	33.65			
MIN.		33.38				33.57	33.56	33.52	33.58	33.52	33.51	33.48	33.44			
RANGE		.22				.07	.13	.16	.20	.22	.41	.43	.21			
STD.DEV.		.06				.03	.03	.05	.06	.06	.10	.10	.04			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER; LA JOLLA, CALIF.

DAILY 5-METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	12.82	13.25	13.2	15.3	16.71	12.68	20.40		20.12	20.00	15.90	16.29			
2		12.88	12.40	12.9	12.9	15.98	12.81	18.82	21.06	20.00	19.80	15.43	16.19			
3		12.10	12.60	12.7	13.4	14.90	13.30	20.18	20.18	20.12	18.49	15.97	16.11			
4		11.71	13.10		14.3	13.72	12.11	19.65	20.60	18.40	19.37	15.70	16.10			
5		11.75	13.03	13.1	14.9	14.60	15.11	20.63	18.83	19.21	19.21	15.51	16.13			
6		11.70	12.90	13.2	12.9	15.08	15.40	20.38	19.22	18.50	17.08	15.62	16.50			
7		12.00	12.30	11.9	14.5	15.00	15.71	19.82	19.61	16.19	16.82	15.49	16.21			
8		11.80	12.40	11.9	13.7	16.18	16.90	20.40	18.60	17.80	17.89	15.24	15.91			
9		11.80	13.10	12.6	13.0	15.03	15.68	16.79	20.33	17.53	19.17	14.62	15.48			
10		11.30	12.87	11.5	13.0	15.64	17.10	19.80	19.92	18.38	16.68	15.03	15.30			
11		11.58	13.00	11.4	12.4	15.10	17.81	17.93	20.14	18.04	18.05	15.49	15.14			
12		12.03	13.20	12.2	13.4	16.10	16.83	18.40	19.43	16.08	18.87	15.76	15.22			
13		12.26	13.40	12.8	13.9	15.97	12.22	18.50	21.22	17.30	19.23	15.87	15.30			
14		12.54	13.20	13.3	14.1	15.90	16.81	19.51	20.75	16.38	18.92	15.50	15.62			
15		12.34	13.4	13.5	14.5	14.99	15.38	19.42	20.01	15.92	19.23	15.20	15.60			
16		12.65	13.2	12.7	14.75	16.42	17.30	16.50	19.09	16.06	18.94	15.03	15.30			
17		12.20	12.3	12.8	14.68	16.08	17.54	16.32	20.91	15.44	17.20	15.11	15.31			
18		12.00	12.69	13.1	14.73	16.07	17.34	17.50	21.21	16.05	14.97	14.42	15.20			
19		12.37	12.50	12.7	14.50	16.48	17.75	16.85	21.38	16.95	16.91	15.11	15.21			
20		12.90	13.0	13.4	14.87	16.96	16.18	17.91	21.21	19.23	17.44	15.60	15.02			
21		13.30	12.7	13.8	14.50	15.50	18.02	16.82	20.10	17.60	17.08	14.91	14.70			
22		13.30	12.8	14.0	14.43	17.21	17.83	19.55	17.00	17.21	18.43	15.49	14.80			
23		13.20	13.0	13.5	12.92	16.72	18.42	15.83	17.29	17.08	18.89	15.99	14.60			
24		13.22	12.8	14.4	14.43	16.20	15.73	16.53	18.82	18.00	17.92	15.48	14.80			
25		12.40	12.80	14.7	15.41	16.01	18.40	16.50	20.41	18.00	17.17	15.30	14.84			
26		12.90	12.87	14.2	15.67	16.09	19.29	16.72	21.40	16.82	15.60	15.09	14.58			
27		13.20	12.5	14.3	15.40	16.00	19.70	19.20	21.01	17.17	16.42	15.23	14.54			
28		13.28	13.2	14.5	16.03	15.53	19.41	19.48	20.80	18.83	16.90	15.02	14.72			
29		13.60	13.3	14.8	16.50	15.71	19.41	19.82	20.91	18.88	14.52	15.71	14.95			
30		13.12		14.2	16.85	15.90	19.80	19.41	21.23	19.40	15.85	16.40	15.14			
31		13.10		14.9		15.00		20.36	21.00		15.68		15.33			
MEAN		12.49	12.89	13.27	14.40	15.77	16.60	18.58	20.12	17.76	17.70	15.39	15.36	15.86		
MAX.		13.60	13.40	14.9	16.85	17.21	19.80	20.63	21.40	20.12	20.00	16.40	16.50		21.40	
MIN.		11.30	12.30	11.4	12.4	13.72	12.11	15.83	17.00	15.44	14.52	14.42	14.54			11.30
RANGE		2.30	1.10	3.50	4.45	3.49	7.69	4.80	4.40	4.68	5.48	1.98	1.96			
STD.DEV.		.54	.30	.93	1.10	.79	2.07	1.29	1.15	1.21	1.31	.45	.50			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY 5-METER (BOTTOM)

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1956	33.58	33.44	33.61	33.69	33.62	33.68	33.69	33.65	33.71	33.59	33.65	33.66			
2		33.58	33.54	33.59	33.64	33.59	33.70	33.65	33.71	33.68	33.55	33.62	33.65			
3		33.58	33.46	33.64	33.60	33.60	33.71	33.69	33.69	33.69	33.55	33.64	33.65			
4		33.61	33.49	33.60	33.64	33.59	33.64	33.68	33.68	33.65			33.63			
5		33.60	33.50	33.59	33.64	33.64	33.71	33.71	33.63	33.63	33.56	33.64	33.62			
6		33.58	33.50	33.61	33.58	33.62	33.61	33.71	33.60	33.58	33.52	33.62	33.66			
7		33.60	33.56	33.62	33.62	33.58	33.62	33.69	33.66	33.56	33.55	33.64	33.66			
8		33.58	33.56	33.68	33.60	33.60	33.63	33.71	33.63	33.57	33.55	33.59	33.64			
9		33.58	33.50	33.65	33.60	33.60	33.66	33.64	33.67	33.55	33.56	33.54	33.64			
10		33.56	33.53	33.68	33.55	33.65	33.63	33.73	33.65	33.59	33.52	33.57	33.64			
11		33.59	33.57	33.68	33.57	33.61	33.63	33.62	33.64	33.60	33.61	33.58	33.65			
12		33.65	33.49	33.68	33.63	33.66	33.65	33.62	33.64	33.55	33.66	33.60	33.66			
13		33.59	33.53	33.66	33.51	33.62	33.62	33.62	33.69	33.55	33.66	33.59	33.62			
14		33.58	33.51	33.65	33.55	33.60	33.62	33.60	33.71	33.53	33.66	33.58	33.64			
15		33.57	33.50	33.60	33.56	33.61	33.60	33.64	33.68	33.53	33.68	33.57	33.64			
16		33.57	33.53	33.64	33.58	33.66	33.59	33.58	33.60	33.53	33.68	33.58	33.62			
17		33.55	33.58	33.60	33.52	33.63	33.60	33.58	33.68	33.51	33.60	33.58	33.64			
18		33.58	33.56	33.68	33.60	33.60	33.60	33.60	33.75	33.53	33.55	33.53	33.60			
19		33.55	33.57	33.67	33.58	33.63	33.62	33.61	33.72	33.53	33.61	33.57	33.62			
20		33.57	33.58	33.62	33.58	33.65	33.60	33.62	33.75	33.57	33.62	33.58	33.64			
21		33.57	33.58	33.64	33.58	33.68	33.63	33.58	33.68	33.53	33.59	33.58	33.66			
22		33.57	33.56	33.61	33.55	33.66	33.65	33.61	33.57	33.57	33.65	33.58	33.66			
23		33.58	33.53	33.64	33.58	33.66	33.67	33.58	33.60	33.53	33.68	33.57	33.64			
24		33.57	33.51	33.66	33.60	33.68	33.58	33.58	33.60	33.57	33.70	33.56	33.64			
25		33.58	33.54	33.63	33.56	33.64	33.67	33.57	33.64	33.55	33.66	33.58	33.66			
26		33.57	33.59		33.56	33.64	33.68	33.57	33.71	33.54	33.57	33.57	33.65			
27		33.29	33.62		33.58	33.67	33.70	33.56	33.72	33.54	33.62	33.59	33.65			
28		33.43	33.60	33.63	33.56	33.67	33.65	33.60	33.73	33.54	33.62	33.59	33.65			
29		33.40	33.64	33.62	33.57	33.70	33.66	33.58	33.69	33.57	33.55	33.62	33.63			
30		33.43		33.63	33.60	33.68	33.68	33.62	33.75	33.57	33.62	33.64	33.64			
31		33.40		33.61		33.70		33.61	33.76		33.61		33.64			
MEAN		33.55	33.54	33.64	33.59	33.63	33.64	33.63	33.68	33.57	33.60	33.59	33.64	33.61		
MAX.		33.61	33.64	33.68	33.69	33.70	33.71	33.73	33.76	33.71	33.70	33.65	33.66		33.76	
MIN.		33.29	33.44	33.59	33.51	33.58	33.58	33.56	33.57	33.51	33.52	33.53	33.60			33.29
RANGE		.32	.20	.09	.18	.12	.13	.17	.19	.20	.18	.12	.06			
STD.DEV.		.07	.05	.02	.04	.03	.03	.04	.05	.05	.04	.03	.01			

SEA WATER SUMMARY: TEMPERATURES — STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	15.40	13.88	14.61	15.20	16.49	18.20	20.12	19.40	19.32	16.15	17.84	15.96			
2		15.01	13.87	14.78	13.40	16.71	17.70	17.59	18.91	19.84	17.04	17.72	16.42			
3		15.24	13.84	15.00	13.91	16.30	17.31	15.51	17.93	19.86	17.58	17.20	16.20			
4		15.28	13.71	15.08	14.63	16.31	18.70	15.60	16.82	19.04	19.20	17.30	16.30			
5		15.22	13.90	15.18	14.71	16.60	18.42	17.81	18.90	15.30	18.31	17.20	16.33			
6		15.57	14.11	15.50	15.31	16.51	18.63	20.50	17.70	16.30	15.62	16.90	16.08			
7		15.40	14.10	15.54	14.96	17.00	19.02	20.95	19.60	17.31	15.44	17.15	16.29			
8		15.37	14.27	15.32	15.34	16.42		20.81	17.09	17.81	16.35	17.40	16.30			
9		15.27	13.91	15.60	15.42	17.01		20.52	18.11	18.96	18.32	17.20	16.20			
10		15.40	14.12	15.00	15.57	14.62	18.60	20.80	17.15	19.60	17.52	17.18	16.30			
11		15.20	14.30	15.01	13.06	12.83	18.08	19.37	19.95	17.60	17.12	17.30	16.10			
12		15.33	14.39	15.30	15.81	14.50	17.30	20.92	18.90	18.70	17.90	17.00	15.85			
13		15.30	14.30	15.30	13.11	13.96	17.24	18.91	18.73	18.42	17.08	17.00	16.20			
14		15.40	14.30	14.76	14.32	15.11	18.36	18.60	19.92	19.62	17.90	16.98	16.30			
15		15.09	14.52	14.90	15.20	16.50	18.11	18.90	20.91	18.41	17.90	17.01	16.30			
16		15.11	14.60	15.40	15.00	16.31	18.30	20.92	20.58	19.64		17.90	17.38			
17		15.07	14.60	14.38	13.57	16.57	18.11	20.82	21.93	20.12	18.38	16.60	17.30			
18		14.90	14.44	14.20	16.11	17.69	18.32	21.00	21.52	20.10	18.32	16.25	17.07			
19		14.95	14.79	14.37	16.10	18.20	19.29	19.48	22.39	20.80	18.30	15.88	16.82			
20		14.58	14.11	13.81	15.92	17.40	20.29	21.42	23.02	19.90	18.09	16.20	16.90			
21		14.43	14.42	14.09	14.30	17.86	20.03	19.42	22.28	18.88	17.83	16.32	16.90			
22		14.30	14.18	13.78	13.83	15.87	20.00	18.23	20.57	19.16	17.32	15.70	16.79			
23		14.21	13.72	14.00	14.38	16.55	20.11	19.15	21.77	15.44	17.40	16.20	16.68			
24		14.20	14.22	13.60	14.90	15.99	19.48	19.40	21.94	15.60	17.80	16.93	16.70			
25		14.40	14.43	14.01	15.31	16.86	20.30	21.11	21.00	16.22	17.80	16.00	16.58			
26		14.51	14.82	14.09	12.62	13.71	20.45	20.98	21.46	16.35	15.91	15.95	16.50			
27		14.20	14.55	14.22	13.51	16.81	20.08	21.60	22.50	14.70	16.81	16.30	16.30			
28		13.60	14.60	14.54	14.70	17.04	20.43	21.82	19.32	16.11	18.05	16.60	16.40			
29		13.82		14.80	15.87	17.30	20.60	21.20	21.40	15.32	17.88	16.55	16.30			
30		13.96		14.22	16.20	17.99	20.70	19.49	18.82	18.50	17.85	15.91	16.55			
31		13.89		12.92		17.39		18.80	16.60		17.92		16.50			
MEAN		14.83	14.25	14.62	14.74	16.34	19.00	19.10	19.91	18.03	17.50	16.79	16.48	16.85		
MAX.		15.40	14.82	15.60	16.20	18.20	20.70	21.82	23.02	20.80	19.20	17.90	17.38		23.02	
MIN.		13.60	13.71	12.92	12.62	12.83	17.24	15.51	16.60	14.70	15.44	15.70	15.85			12.62
RANGE		1.80	1.11	2.68	3.58	5.37	3.46	6.31	6.42	6.10	3.76	2.20	1.53			
STD.DEV.		.48	.30	.63	.90	1.31	.94	1.67	1.64	1.49	.99	.57	.37			

SEA WATER SUMMARY: SALINITIES STATION: SCRIPPS PIER: LA JOLLA, CALIF

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT	NOV.	DEC.	MEAN	MAX.	MIN.
1	1957	33.66	33.55	33.50	33.55			33.66	33.58	33.51	33.51	33.57	33.68			
2		33.68	33.55	33.50	33.52	33.48	33.87	33.58	33.55	33.51	33.52	33.56	33.69			
3		33.66	33.55	33.53	33.51	33.53	33.62	33.49	33.53	33.59	33.55	33.54	33.68			
4		33.64	33.56	33.46	33.55	33.55	33.59	33.48	33.49	33.50	33.71	33.53	33.68			
5		33.60	33.55	33.45	33.68	33.58	33.58	33.52	33.57	33.47	33.64	33.57	33.68			
6		33.60	33.54	33.48	33.51	33.56	33.61	33.63	33.56	33.46	33.50	33.56	33.68			
7		33.58	33.55	33.46	33.53	33.58	33.63	33.60	33.55	33.46	33.55	33.55	33.69			
8		33.58	33.58	33.48	33.53	33.57		33.63	33.49	33.46	33.54	33.58	33.68			
9		33.54	33.56	33.48	33.53	33.62		33.60	33.49	33.49	33.65	33.62	33.67			
10		33.51	33.56	33.48	33.53	33.51	33.60	33.64	33.48	33.51	33.58	33.71	33.68			
11		33.50	33.56	33.48	33.56	33.57	33.57	33.58	33.55	33.51	33.58	33.58	33.69			
12		33.48	33.55	33.46	33.57	33.56	33.56	33.66	33.54	33.50	33.77	33.58	33.68			
13		33.48	33.56	33.49	33.55	33.51	33.53	33.66	33.57	33.50	33.53	33.61	33.68			
14		33.48	33.53	33.48		33.50	33.61	33.57	33.54	33.53	33.51	33.59	33.69			
15		33.51	33.53	33.48	33.55	33.42	33.60	33.56	33.54	33.50	33.53	33.60	33.68			
16		33.52	33.55	33.44	33.55	33.48	33.59	33.62	33.54	33.64		33.61	33.68			
17		33.53	33.57	33.45	33.57	33.48	33.60	33.60	33.56	33.68	33.49	33.59	33.66			
18		33.58	33.57	33.50	33.44	33.52	33.55	33.66	33.57	33.64	33.51	33.58	33.69			
19		33.57	33.57	33.51	33.49	33.50	33.57	33.58	33.58	33.65	33.50	33.61	33.68			
20		33.58	33.57	33.49	33.55	33.55	33.59	33.65	33.71	33.63	33.53	33.59	33.70			
21		33.60	33.57	33.58	33.46	33.58	33.64	33.55	33.61	33.58	33.52	33.60	33.69			
22		33.60	33.57	33.50	33.51	33.53	33.58	33.53	33.59	33.58	33.58	33.61	33.70			
23		33.60	33.51	33.51	33.49	33.55	33.58	33.58	33.61	33.53	33.62	33.63	33.69			
24		33.66	33.57	33.55	33.46	33.57	33.64	33.58	33.68	33.82	33.57	33.63	33.69			
25		33.57	33.56	33.51	33.46	33.57	33.66	33.64	33.59	33.51	33.55	33.64	33.69			
26		33.52	33.55	33.53	33.52	33.55	33.58	33.63	33.57	33.86	33.51	33.64	33.68			
27		33.55	33.56	33.50	33.48	33.59	33.64	33.68	33.64	33.51	33.57	33.63	33.70			
28		33.57	33.54	33.49	33.46	33.57	33.66	33.69	33.53	33.52	33.62	33.68	33.68			
29		33.48		33.51	33.51	33.57	33.63	33.68	33.58	33.50	33.60	33.68	33.83			
30		33.55		33.53	33.49	33.60	33.62	33.58	33.53	33.75	33.64	33.68	33.78			
31		33.54		33.55		33.58		33.54	33.46		33.57		33.80			
MEAN		33.56	33.56	33.50	33.52	33.54	33.61	33.60	33.56	33.56	33.57	33.60	33.70	33.57		
MAX.		33.68	33.58	33.55	33.68	33.62	33.87	33.69	33.71	33.86	33.77	33.71	33.83		33.87	
MIN.		33.48	33.53	33.44	33.44	33.42	33.53	33.48	33.46	33.46	33.49	33.53	33.66			33.42
RANGE		.20	.05	.11	.24	.20	.34	.21	.25	.40	.28	.18	.17			
STD.DEV.		.05	.01	.03	.05	.04	.06	.05	.06	.10	.07	.04	.04			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER: LA JOLLA, CALIF.

DAILY (5-METER) BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	16.41	15.40	15.72	16.06	18.90	16.10	14.28	14.43	19.28	19.20	18.52	16.20			
2		16.55	15.71	15.51	15.92	18.70	16.04	15.00	16.59	20.25	18.60	19.33	16.20			
3		16.20	15.90	15.18	15.86	16.68	14.23	14.99	18.00	20.90	17.10	19.70	16.40			
4		16.00	16.00	15.35	15.12	14.43	14.88	14.42	13.78	20.10	19.74	19.60	16.20			
5		16.20	15.90	15.08		18.50	17.02	14.57	17.77	21.40	19.50	19.60	16.40			
6		16.20	15.85	15.50		16.26		15.45	18.80	21.16	19.40	18.70	16.90			
7		15.85	15.94	14.85	15.37	17.53	14.03	20.40	19.50	20.92	19.70	19.10	15.62			
8		15.90	15.91	14.88	15.34	17.43	18.13	15.70	20.10	18.70	20.30	19.43	16.10			
9		16.08	16.13	15.20	15.63	17.75	17.03	16.06	16.26	20.50	18.90	19.20	16.10			
10		16.40	15.95	14.80	16.12	17.79	17.65	13.08	20.20	19.95	19.00	19.20	16.00			
11		16.31	15.91	14.90	16.40	17.36	16.90	13.58	19.30	17.75	20.28	18.90	16.10			
12		16.32	16.00	14.68	17.54	17.40	17.50	16.69	19.77	18.40	19.60	18.70	16.50			
13		16.10	16.02	14.68	17.13	17.70	18.25	18.60	21.12	17.36	18.70	18.70	17.08			
14		16.20	15.91	14.98	16.28	15.04	19.34	17.05	22.50	19.32	18.60	18.70	17.90			
15		16.12	15.97	14.26	16.72	14.25	19.30	15.90	19.35	19.00	18.40		16.40			
16		16.12	15.95	15.20	16.06	17.27	19.10	15.35	21.08	18.20	18.80		16.10			
17		16.10	16.01	15.20	16.92	18.39	14.95	16.80	20.05	16.95	18.20	16.40	16.30			
18		15.90	16.23	15.38	17.37	17.80	16.65	17.20	20.50	18.25	18.60	15.80	16.40			
19		16.10	16.13	15.26	17.58	18.10	15.24	19.01	21.32	18.20	18.46	15.80	16.30			
20		16.20	16.03	15.80	17.48	18.20	15.49	20.98	17.07	20.30	18.70	15.50	16.30			
21		16.30	16.10	14.95	17.30	17.60	14.96	18.40	18.53	16.48	19.20	15.80	16.92			
22		15.90	16.43	15.43	17.78	17.30	17.27	21.00	17.07	18.05	19.20	15.81	16.60			
23		15.55	16.27	15.32	17.84	17.50	18.10	18.90	18.57	19.50	19.50	16.50	16.70			
24		15.30	16.42	15.50	18.00	15.06	17.32	19.25	18.09	19.85	19.30		16.40			
25		15.80	16.63	15.36	17.67	14.26	18.90	14.10	17.70	19.00	19.46	16.00	16.40			
26		15.82	16.02	15.81	17.90	14.72	20.40	19.38	18.30	18.00	20.60	16.30	16.40			
27		16.05	15.73	15.96	18.10	13.87	19.80	20.00	19.55	18.82	19.90	16.40	16.40			
28		16.05	15.80	15.65	18.05	12.20	19.20	15.30	20.10	20.78	19.50	16.86	16.40			
29		16.00		15.84	18.30	13.53	20.40	17.20	17.50	17.30	19.90	17.00	16.00			
30		15.80		16.17	18.10	13.93	18.20	14.28	17.12	20.50	19.80	16.78	16.00			
31		15.83		16.24		12.76		15.24	16.95		19.90		16.60			
1-10 MEAN		16.18	15.87	15.21	15.68	17.40	16.12	15.40	17.54	20.32	20.06	19.24	16.21			
11-20 MEAN		16.15	16.02	15.03	16.95	17.14	17.27	17.12	20.21	18.37	19.24	19.31	16.54			
21-31 MEAN		15.85	16.18	15.66	17.96	14.79	18.46	17.55	18.13	18.83	19.73	16.38	16.38			
MON. MEAN		16.05	16.01	15.31	16.95	16.39	17.32	16.71	18.61	19.17	19.23	17.72	16.38	17.15		
MAX.		16.55	16.63	16.24	18.70	18.90	20.40	21.00	22.50	21.40	20.60	19.70	17.90		22.50	
MIN.		15.30	15.40	14.26	15.12	12.20	14.03	13.08	13.78	16.48	17.10	15.50	15.62			12.20
RANGE		1.25	1.23	1.98	3.58	6.70	6.37	7.92	8.72	4.92	3.50	4.20	2.28			
STD. DEV		.28	.27	.47	.91	1.71	1.71	2.08	2.12	1.25	.76	1.12	.46			

SEA WATER SUMMARY: SALINITIES STATION: SCRIPPS PIER
5 METER BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1958	33.79	33.69	33.68	33.48	33.54	33.61	33.64	33.51	33.47	33.48	33.53	33.58			
2		33.77	33.70	33.68	33.42	33.51	33.61	33.52	33.50	33.49	33.41	33.51	33.52			
3		33.75	33.69	33.67	33.40	33.49	33.61	33.55	33.53	33.49	33.38	33.56	33.53			
4		33.79	33.62	33.64	32.07	33.55	33.61	33.55	33.48	33.46	33.37	33.55	33.55			
5		33.77	33.57	33.68		33.51	33.58	33.53	33.56	33.50	33.40	33.57	33.55			
6		33.84	33.62	33.64		33.52		33.66	33.52	33.44	33.39	33.52	33.56			
7		33.78	33.65	33.58	33.34	33.48	33.58	33.60	33.57	33.42	33.39	33.48	33.53			
8		33.83	33.63	33.61	33.34	33.51	33.58	33.57	33.58	33.40	33.40	33.54	33.55			
9		33.85	33.64	33.64	33.42	33.51	33.58	33.60	33.50	33.47	33.44	33.58	33.55			
10		33.78	33.64	33.63	33.37	33.55	33.57	33.54	33.51	33.45	33.40	33.58	33.56			
11		33.87	33.66	33.58	33.33	33.42	33.58	33.57	33.53	33.37	33.46	33.55	33.55			
12		33.90	33.64	33.58	33.19	33.48	33.58	33.57	33.53	33.40	33.44	33.59	33.58			
13		33.75	33.64	33.58	33.27	33.51	33.58	33.58	33.54	33.37	33.39	33.58	33.57			
14		33.76	33.66	33.59	33.22	33.52	33.58	33.58	33.56	33.49	33.37	33.58	33.54			
15			33.63	33.56	33.34	33.54	33.65	33.57	33.56	33.37	33.35		33.60			
16		33.73	33.64	33.40	33.33	33.52	33.64	33.57		33.35	33.39		33.59			
17		33.73	33.62	33.51	33.35	33.54	33.62	33.58	33.58	33.37	33.39	33.60	33.57			
18		33.73	33.62	33.49	33.39	33.53	33.66	33.57	33.57	33.39	33.35	33.55	33.57			
19		33.74	33.64	33.51	33.40	33.55	33.62	33.62	33.57	33.38	33.37	33.55	33.57			
20		33.74	33.64	33.51	33.44	33.55	33.60	33.62	33.48	33.39	33.40	33.56	33.60			
21		33.73	33.63	33.51	33.41	33.55	33.58	33.58	33.48	33.31	33.46	33.54	33.57			
22		33.75	33.62	33.41	33.45	33.57	33.62	33.66	33.48	33.35	33.42	33.54	33.57			
23		33.73	33.63	33.49	33.53	33.56	33.59		33.48	33.41	33.44	33.56	33.58			
24		33.74	33.65	33.45	33.46	33.55	33.58	33.66	33.48	33.38	33.56		33.59			
25		33.70	33.58		33.48	33.55	33.64	33.57	33.49	33.39		33.55	33.59			
26		33.53	33.60	33.48	33.46	33.57	33.63	33.64	33.49	33.37	33.51	33.49	33.57			
27			33.64	33.45	33.49	33.57	33.64	33.63	33.49	33.42	33.51	33.51	33.58			
28		33.68	33.66	33.46	33.49	33.58	33.64	33.55	33.51	33.42	33.49	33.55	33.57			
29		33.67		33.46	33.53	33.58	33.70	33.54	33.42	33.36	33.49	33.56	33.62			
30		33.69		33.49	33.51	33.60	33.58	33.55	33.48	33.42		33.56	33.60			
31		33.69		33.53		33.62		33.55	33.33		33.51		33.58			
1-10 MEAN		33.80	33.64	33.64	33.23	33.52	33.59	33.58	33.53	33.46	33.41	33.54	33.55			
11-20 MEAN		33.77	33.64	33.53	33.33	33.52	33.61	33.58	33.55	33.39	33.39	33.57	33.57			
21-31 MEAN		33.69	33.63	33.47	33.48	33.57	33.62	33.59	33.47	33.38	33.49	33.54	33.58			
MON. MEAN		33.75	33.64	33.55	33.35	33.54	33.61	33.58	33.51	33.41	33.43	33.55	33.57	33.54		
MAX.		33.90	33.70	33.68	33.53	33.62	33.70	33.66	33.58	33.50	33.56	33.60	33.62		33.90	
MIN.		33.53	33.51	33.40	32.07	33.42	33.57	33.52	33.33	33.31	33.35	33.48	33.52			32.07
RANGE		.37	.13	.28	1.46	.20	.13	.14	.25	.19	.21	.12	.10			
STD. DEV.		.08	.03	.06	.25	.04	.03	.04	.06	.04	.05	.03	.02			

SEA WATER SUMMARY: TEMPERATURES STATION: SCRIPPS PIER, LA JOLLA, CALIF.

5-METER BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN.
1	1959	16.20	15.48	15.73	16.60	18.20	17.35	21.45	20.10	20.60	19.65	17.70	16.85			
2		16.40	15.80	15.45	16.75	18.00	15.05	22.20	22.90	21.90	20.15	17.70	17.45			
3		16.32	15.10	15.45	16.25	17.65	20.30	22.00	22.50	21.35	19.90	17.55	16.55			
4		16.30	15.70	15.35	17.55	17.45	15.40	20.30	21.25	19.95	19.90	17.75	16.65			
5		16.60	15.60	15.10	17.25	16.85	17.30	18.40	18.45	19.60	19.45	17.75	16.45			
6		15.80	15.70	15.25	16.85	17.50	19.20	16.25	18.20	21.40	19.75	17.95	16.75			
7		15.80	15.30	16.47	16.25	14.95	19.20	15.55	19.90	21.75	19.50	17.25	17.20			
8		15.80	15.40	16.19	16.75	18.20	17.25	15.75	20.65	22.00	18.70	17.20	17.00			
9		15.90	14.45	15.40	16.50	19.05	18.35	15.55	16.80	22.20	19.50	17.30	16.95			
10		16.26	14.90	15.75	16.50	18.20	19.80	16.25	17.85	19.20	19.40	17.35	17.05			
11		16.12	14.90	15.55	16.45	18.50	19.80	19.60	16.80	20.55	19.80	17.25	16.75			
12		15.80	14.80	15.50	16.15	18.70	20.10	20.35	16.65	20.70	20.10	17.35	16.55			
13		15.80	14.65	15.45	16.35	18.80	20.50	21.80	17.35	21.70	20.10	17.25	16.15			
14		15.80		16.30	16.05	18.30	19.40	17.45	19.80	22.60	19.60	17.25	14.85			
15		15.60	15.10	16.50	17.00	18.05	20.40	16.20	21.45	21.40	19.45	17.60	15.05			
16		15.60	14.85	16.30	16.05	18.00	20.70	17.05	19.40	20.30	19.10	16.85	15.35			
17		15.82	15.05	16.35	16.40	18.60	20.90	20.00	17.55	22.60	19.50	17.35	15.15			
18		15.80	15.10	16.40	16.35	18.90	19.85	16.05	18.20	21.25	19.30	17.40	15.80			
19		16.00	15.25	16.60	16.65	18.55	20.90	16.30	18.20	20.65	19.05	17.65	15.90			
20		15.70	15.30	16.45	16.45	18.60	16.75	17.45	20.00	18.70	19.35	16.25	16.10			
21		16.20	15.32	16.80	17.15	18.70	17.35	17.60	17.75	18.70	19.45	17.25	15.90			
22		15.60	14.82	16.89	16.55	18.65	14.95	21.75	16.10	16.85	17.55	16.75	15.70			
23		15.50	14.72	16.85	14.25	18.70	18.45	21.90	17.75	18.85	17.45	17.05	15.75			
24		16.00	14.90	16.85	17.25	18.80	19.00	22.20	19.00	18.30	19.70	17.15	15.85			
25		15.90	15.00	15.25	16.55	18.90	15.00	22.40	18.15	16.05	19.90	17.40	15.85			
26		16.10	14.70	16.15	16.50	19.10	20.00	21.40	18.70	19.30	19.60	17.45	15.25			
27		15.70	14.85	16.20	16.80	18.90	21.17	22.60	17.70	19.40	19.40	17.25	15.15			
28		15.80	15.30	15.72	17.15	18.60	21.30	22.30	19.40	20.25	19.15	17.10	15.35			
29		15.60			17.45	18.25	20.85	22.45	19.20	20.20	18.90	16.40	15.15			
30		15.60		16.55	17.65	18.45	21.40	22.90	19.20	19.15	19.15	16.70	15.40			
31		15.48		16.50		18.60		20.95	19.00		17.30		—			
1-10 MEAN		16.14	15.34	15.61	16.72	17.60	17.92	18.42	19.86	21.00	19.53	17.46	16.89			
11-20 MEAN		15.80	15.00	16.14	16.39	18.50	19.93	18.42	18.54	20.38	19.40	[illegible]	15.76			
21-31 MEAN		15.77	14.95	16.38	16.73	18.70	18.95	21.70	18.38	18.86	18.64	[illegible]	15.54			
MON. MEAN		15.90	15.11	16.04	16.62	18.28	18.93	19.58	18.91	20.25	[illegible]	[illegible]	16.06	17.68		
MAX.		16.60	15.80	16.89	17.65	19.10	21.40	22.90	22.90	22.60	[illegible]	17.75	17.45		22.90	
MIN.		15.48	14.45	15.10	14.25	14.95	14.95	15.55	16.10	[illegible]	[illegible]	16.70	14.85			14.25
RANGE		1.12	1.35	1.79	3.40	4.15	6.45	7.35	6.80	6.55	[illegible]	[illegible]	2.60			
STD DEV		.27	.34	.46	.69	.86	1.74	1.82	1.91	1.62	[illegible]	[illegible]	.65			

SEA WATER SUMMARY: SALINITIES — STATION: SCRIPPS PIER, LA JOLLA, CAL.

5-METER BOTTOM

	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN	MAX.	MIN
1	1959	33.58	33.62	33.57	33.60	33.61	33.69	33.82	33.73	33.73	33.78	33.82	33.76			
2		33.62	33.57	33.55	33.58	33.66	33.66	33.82	33.82	33.77	33.80	33.81	33.77			
3		33.58	33.62	33.53	33.57	33.66	33.77	33.82	33.83	33.79	33.78	33.77	33.69			
4		33.58	33.58	33.57	33.60	33.68	33.66	33.76	33.77	33.74	33.75	33.76	33.68			
5		33.58	33.58	33.53	33.64	33.66	33.66	33.80	33.72	33.71	33.76	33.75	33.70			
6		33.44	33.60	33.51	33.57	33.66	33.72	33.58	33.71	33.77	33.77	33.75	33.70			
7		33.53	33.59	33.48	33.57	33.66	33.69	33.57	33.75	33.80	33.73	33.76	33.71			
8		33.52	33.52	33.51	33.58	33.71	33.68	33.57	33.84	33.78	33.69	33.71	33.73			
9		33.54	33.51	33.52	33.60	33.74	33.69	33.57	33.73	33.83	33.77	33.75	33.68			
10		33.55	33.58	33.52	33.62	33.71	33.71	33.60	33.72	33.68	33.77	33.79	33.66			
11		33.56	33.58	33.53	33.58	33.69	33.71	33.64	33.69	33.73	33.77	33.76	33.71			
12		33.57	33.48	33.52	33.59	33.72	33.75	33.67	33.68	33.69	33.75	33.78	33.64			
13		33.55	33.54	33.53	33.61	33.72	33.75	33.70	33.72	33.75	33.78	33.72	33.75			
14		33.53		33.53	33.57	33.73	33.70	33.63	33.73	33.78	33.78	33.74	33.69			
15		33.53	33.58	33.51	33.58	33.70	33.73	33.63	33.80	33.82	33.77	33.77	33.68			
16		33.57	33.55	33.55	33.58	33.71	33.77	33.58	33.70	33.73	33.79	33.75	33.63			
17		33.58	33.49	33.54	33.58	33.71	33.77	33.66	33.71	33.78	33.75	33.73	33.64			
18		33.57	33.55	33.53	33.61	33.71	33.73	33.57	33.71	33.78	33.73	33.68	33.64			
19		33.58		33.55	33.59	33.75	33.71	33.56	33.68	33.77	33.69	33.75	33.61			
20		33.58	33.57	33.53	33.65	33.75	33.61	33.57	33.80	33.71	33.63	33.72	33.64			
21		33.59	33.50	33.57	33.63	33.75	33.64	33.78	33.71	33.68	33.77	33.74	33.56			
22		33.60	33.54	33.57	33.66	33.73	33.64	33.71	33.80	33.60	33.64	33.78	33.61			
23		33.60	33.56	33.57	33.62	33.72	33.69	33.80	33.71	33.69	33.60	33.73	33.62			
24		33.59		33.62	33.66	33.75	33.73	33.77	33.69	33.66	33.73	33.71	33.62			
25		33.60	33.56	33.58		33.77	33.63	33.82	33.69	33.58	33.76	33.73	33.60			
26		33.58	33.56		33.58	33.75	33.75	33.78	33.70	33.73	33.73	33.74	33.62			
27		33.61	33.54	33.60	33.58	33.78	33.84	33.80	33.68	33.73	33.71	33.71	33.58			
28		33.63	33.54	33.58	33.62	33.77	33.80	33.73	33.73	33.77	33.71	33.77	33.64			
29		33.58			33.58	33.74	33.83	33.81	33.69	33.77	33.69	33.73	33.65			
30		33.60			33.57	33.77	33.82	33.82	33.71	33.73	33.64	33.75	33.64			
31		33.62		33.58		33.77		33.75	33.69		33.77		—			
1-10 MEAN		33.55	33.58	33.53	33.59	33.68	33.69	33.69	33.76	33.76	33.76	33.77	33.71			
11-20 MEAN		33.56	33.54	33.53	33.60	33.72	33.73	33.62	33.72	33.75	33.75	33.74	33.66			
21-31 MEAN		33.60	33.54	33.58	33.61	33.75	33.74	33.71	33.71	33.69	33.71	33.74	33.61			
MON. MEAN		33.57	33.56	33.55	33.60	33.72	33.72	33.71	33.78	33.74	33.74	33.75	33.66	33.67		
MAX.		33.63	33.62	33.62	33.66	33.78	33.84	33.84	33.84	33.83	33.80	33.82	33.77		33.84	
MIN		33.44	33.48	33.48	33.57	33.61	33.61	33.56	33.68	33.58	33.60	33.68	33.56			33.44
RANGE		.19	.14	.14	.09	.17	.23	.28	.16	.25	.20	.14	.21			
STD DEV		.04	.04	.05	.04	.04	.05	.06	.04	.06	.05	.03	.05			