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Scripps Institution of Oceanography

Publication Date

1985-12-01

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

SURFACE WATER TEMPERATURES AT SHORE STATIONS

United States West Coast

1984

Including surface salinities from several stations and five-meter temperatures and salinities at Scripps Pier.

Sponsored by:

Marine Life Research Group Scripps Institution of Oceanography

Approved for distribution:

W. A. Nierenberg, Director

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INTRODUCTION

This report presents temperature and salinity data observed during 1984 at shoreline stations along the west coast of North America from the Strait of Juan de Fuca, Washington to La Jolla, California. The data consists of daily recorded temperature and salinity values when available, with monthly means, ranges and standard deviations based on these observations. Also computed are yearly mean, maximum and minimum values for those stations with some observations for every month of the year. Please note that reports issued for the years prior to 1974 did not include daily recorded values.

Various agencies and individuals volunteer to make daily observations which are sent monthly to the Scripps Institution of Oceanography Marine Life Research Group for processing. The agencies are National Oceanic and Atmospheric Administration/National Ocean Survey (NOAA/NOS), U. S. Coast Guard, Point Reyes Bird Observatory, The California State Park System, Oregon State University, California State University, Pacific Gas and Electric Company, California Department of Fish and Game, Pacific Missile Test Center and Scripps Institution of Oceanography of the University of California, San Diego. All stations, excluding those of NOAA/NOS, Pacific Missile Test Center and those reporting to Oregon State University, are maintained in cooperation with Scripps Institution of Oceanography, which supplies them with thermometers.

Observations are taken by measuring the temperature of a sample of water scooped from the surface in a bucket or bottle. The temperatures are recorded as observed with no attempt to screen or eliminate observer errors.

Annually, NOAA/NOS sends to Scripps Institution daily temperatures and density values from four tide stations located at Neah Bay, Washington and Crescent City, Port San Luis and Santa Monica, California. Temperature readings for Santa Monica, Port San Luis, Crescent City and Neah Bay are recorded to 0.5°F. Pacific Missile Test Center temperature readings are recorded to 0.1°F. These Fahrenheit readings have been converted and are reported to the nearest 0.1°C.

Temperatures from Scripps' cooperative stations and from stations reporting to Oregon State University are read to the nearest 0.1° C with calibrated thermometers except for Morro Bay, which is read to the nearest degree Fahrenheit. The observations are considered accurate to approximately $\pm 0.2^{\circ}$ C.

Salinities from Scripps Pier, Balboa, S.E. Farallon Island, San Clemente, Bodega Bay and Trinidad are obtained from sea water samples in special salinity bottles supplied by Scripps. Water samples are forwarded to Scripps at the end of each month for salinity determination by inductive salinometer. Salinities are listed to hundredths of a part per thousand. Values of maximum salinities may possibly be in error due to evaporation or contamination of the sample in the bottles.

Reported salinities exceeding 34% may be due to faulty sampling techniques. Salinities less than 30% are due to local precipitation or fresh water runoff. Neither are representative of offshore oceanic waters. As with previous reports in this series, all salinities higher than 34.9% have been omitted.

The data presented is grouped in three 10-day periods; 1 to 10, 11 to 20, and 21 to 30 (or 31). The mean is computed for each 10-day period. The monthly means, maxima and minima are reported. Where some data was recorded for every month of the year, the annual mean, maximum and minimum are also given.

CALIFORNIA STATION DESCRIPTIONS

From time to time questions arise concerning just where the temperatures are taken and how representative these temperatures might be.

Crescent City

This is a Coast and Geodetic Survey tide gauge station located on the end of the Coast Guard Pier inside the harbor at Crescent City. The harbor has a small entrance formed by two breakwaters. Temperatures at the tide gauge site and the water on the beach outside the breakwater are nearly the same.

Trinidad Bay and Trinidad Beach

California State University-Humboldt operates a marine laboratory on this rocky headland. Temperatures are taken daily off the fishing pier on the lee side or southeast side of the headland and on the beach on the northwest side of the headland. In May, 1977 the laboratory began collecting water samples in bottles supplied by Scripps, returning the samples monthly for salinity determination by inductive salinometer. The salinity values for 1984 are included in this report and will differ from the values determined by uncalibrated hydrometer readings and listed by the marine laboratory in their monthly report. Due to the similarity of the salinities from the coast and the bay, except during periods of large run-off, the bay salinities were discontinued May 31, 1979.

Salt Point State Park

The rangers take daily water temperatures from Gerstle Cove. This station took over reporting from the old Fort Ross station about 10 miles down the coast. Temperatures at both stations are virtually the same, and as this is a steep rocky coast, the temperatures are very representative of the coastal waters. Summer upwelling temperatures show this section of the coast to be one of the coldest.

Bodega Bay

The University of California Marine Biological Laboratory located at Horseshoe Cove takes daily water temperature and water samples at the intake pipe to their aquarium water system located in a deep rocky channel on the northern headland of the cove. Since the water is deep and the headland steep and rocky, the temperatures are quite representative of the coastal water. This station continues the coverage provided earlier by Sonoma Coast State Beach.

Farallon Islands

The islands are now part of the Point Reyes National Park and Bird Sanctuary. Personnel stationed on S.E. Farallon, where the Coast Guard lighthouse is located, take daily temperature and salinity samples. Salinity samples are sealed in special bottles supplied by Scripps and mailed back when the supply boat comes out to the island. The boat landing on the southeast side of the island is steep and rocky, so the measurements are very representative of the oceanic waters around the islands. Measurements are interrupted from time to time because of weather, personnel and supply problems caused by the islands' location 26 miles west of the Golden Gate Bridge, where they catch the full force of winter storms and the strong summer northwesters.

Santa Cruz

A new buoy-gauge thermistor unit has been installed in the wharfmaster's office with the thermistor located in a protective pipe on a pier piling under the office. Formerly this area was monitored by Natural Bridges State Park and Twin Lakes State Park. Maintenance of this new wharf station will be carried out by the Marine Biology Department of the University of California, Santa Cruz.

Pacific Grove

Hopkins Marine Station of Stanford University takes daily temperatures from a beach on the north side of Point Cabrillo just north of their main laboratory buildings. The location is exposed to the northwest swell as it sweeps past Point Pinos so is very representative of the coastal conditions on the south side of Monterey Bay.

Granite Canyon

Personnel of the Marine Culture Laboratory of the California Department of Fish and Game take a daily temperature off the rocks near the water intake for the laboratory.

Morro Bay

The Pacific Gas and Electric Company has a major power generating plant located at the entrance to Morro Bay's harbor mouth. Temperatures are logged from the thermograph that monitors the cooling intake water for the generators. Temperatures are recorded about 8 A.M. every morning, which reduces the effect of tidal heating from back-bay water. Since the discharge of hot water is outside the bay, the intake temperatures are quite representative of those found in the southern end of Estero Bay. (The northern part of the bay is generally cooler. This condition existed long before the power plant went in and was noted in earlier measurements made by Daniel Brown of SIO.)

Port San Luis

The Coast and Geodetic Survey's tide-gauge station is located on the old fishing pier in the northwest corner of the harbor. The old site was on Avila recreational pier which was a better location. The new location is less subject to storm damage, particularly from the southeast winter gales. However, the counterclockwise circulation of current in the bay traps the river run-off from San Luis Creek in the northwest corner of the bay behind the breakwater. Temperature is also about 0.1°C warmer at the new site.

Santa Barbara

Personnel of the Harbor Department now take daily water temperatures off their boat dock instead of the breakwater by the corner where it meets the beach. This is done every morning early before the sun heats up the beach and so gives a representative temperature of the coastal water. Temperatures were formerly collected from the harbormaster's dock, but the configuration of the harbor changed, so the site was moved to the beach by the breakwater.

Point Mugu

Personnel at the Pacific Missile Test Center have been recording weather observations continuously since 1946 and water temperatures since 1967. At the present time daily water temperatures are being recorded four times a day from an electric thermistor at the end of a 300-foot pier. This is located at the beginning of a sub-marine canyon in a lagoon open to the sea on three sides.

Point Dume

The Los Angeles County Lifeguards man the station at Zuma Beach County Park west of Point Dume. They take daily water temperatures in the surf early every morning thus giving representative temperatures for this section of the coast.

Santa Monica

This tide-gauge station is located at the end of the Santa Monica pier near the harbormaster's office. Although located behind the breakwater, there is sufficient water flow to make this representative of the nearshore waters.

Balboa

The city lifeguards have a Telcor electric thermometer with sensor in a pipe on one of the pier pilings and take daily temperature and salinity samples from their office located on the Newport Beach pier. The calibration of this thermometer is checked with a glass thermometer occasionally. Since these samples are taken in deeper water, and not from the surf, they reflect coastal conditions accurately. The salinity is affected during winter storms by run-off from the Santa Ana River mouth located only a mile or so up the beach from the pier.

San Clemente

Personnel of the Department of Marine Safety of the City of San Clemente take daily temperatures and salinity samples off the pier. This station was established to take over the temperature monitoring on this section of the coast from the old Dana Point and Doheny Beach stations. The new yacht harbor at Dana Point removed the Dana Point station, but the San Clemente pier site is so similar that the long record for this area is still preserved.

La Jolla

Daily temperature and salinity measurements are made at the end of the Scripps Institution of Oceanography pier. Two levels of measurement are made: surface and 5 meter or bottom. The temperatures at the end of Scripps pier fluctuate considerably because of the presence of nearby Scripps Canyon and upwelling from it.

Many stations have disappeared in the last 10 years. The automation of Coast Guard Lighthouses and elimination of the Blunts Reef lightship off Cape Mendocino have left serious gaps in our coastal coverage. Due to severe storm damage and subsequent loss of the thermistor temperature measurement system, there are no data after January, 1983 for Point Arena. It is hoped that this station can be reactivated at some future date. New state parks and new marine laboratories may be able to extend some of our coverage in the future. The participants are all volunteers, people seriously interested in the sea at their doorstep, and it is to these people we owe the success of this long-range program.

SURFACE-TEMPERATURE STATIONS IN GEOGRAPHICAL ORDER

Station Name	Position	Location	Page
Washington			
Neah Bay	48°22.0′N, 124°37.0′W	NOAA/NOS Tide Gauge Station Strait of Juan De Fuca	12
Oregon			
Charleston	43°21.0′N, 124°19.0′W	From surface of bay	13
California			
Crescent City	41°21.0′N, 124°11.0′W	NOAA/NOS Tide Gauge Station Crescent City	14
Trinidad Beach	41°03.6′N, 124°08.9′W	Trinidad Beach	15
Trinidad Bay	41°03.3′N, 124°08.9′W	Trinidad Bay Fishing Pier, southeast side of headland	17
Salt Point State Park	38°34.0′N, 123°19.7′W	Beach at Gerstle Cove	18
Bodega Bay	38°19.0′N, 123°04.3′W	Intake pipe at north head- land of Horseshoe Cove	19
Farallon Island	37°41.8′N, 122°59.9′W	SE Farallon Island at the boat landing on S.E. side of the island	21
Santa Cruz	36°57.5′N, 122°01.0′W	Wharfmaster's office on the pier	23
Pacific Grove	36°37.3′N, 121°54.2′W	Beach on north side of Point Cabrillo, Hopkins Marine Station	24
Granite Canyon	36°25.9′N, 121°55.0′W	Off rocks near water intake for laboratory	25

Station Name	Position		Location	Page
California (cont.)				
Morro Bay	35°22.2′N,	120°51.6′W	Thermograph record of intake water at Pacific Gas and Electric	26
Port San Luis	35°10.3′N,	120°45.2′W	NOAA/NOS Tide Gauge Station Port San Luis	27
Santa Barbara	34°24.2′N,	119°41.6′W	Off boat dock	28
Point Mugu	34°06.0′N,	119°05.0′W	At outer end of 300' pier	29
Point Dume: west of	34°01.1′N,	118°49.5′W	Beach at Zuma Beach County Park	30
Santa Monica	34°00.0′N,	118°30.0′W	NOAA/NOS Tide Gauge Station Santa Monica	31
Balboa	33°36.0′N,	117°54.0′W	Lifeguard office on Newport Beach Pier	32
San Clemente	33°25.0′N,	117°37.0′W	San Clemente Pier	34
La Jolla: Scripps Pier, Surface	32°52.0′N,	117°15.3′W	Outer end of pier at Scripps Institution of Oceanography La Jolla	36
La Jolla: Scripps Pier, Bottom	32°52.0′N,	117°15.3′W	Outer end of pier at Scripps Institution of Oceanography La Jolla	38

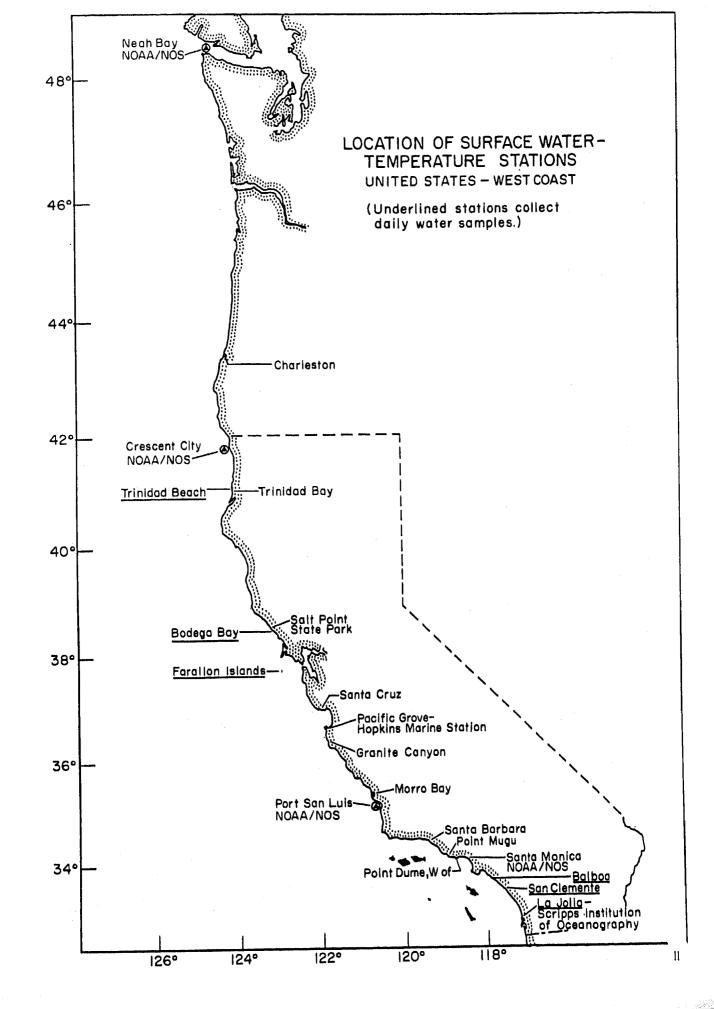
ALPHABETICAL LIST OF SURFACE-TEMPERATURE STATIONS

STATION NAME	TYPE	OF DATA COLLECTED	AGENCY	PAGE
Balboa	T^1S^2	d^3	NPB	32
Bodega Bay	TS	d	UCML	19
Charleston, Oregon	Т	d	OSU	13
Crescent City	Т	d	NOAA/NOS	. 14
Farallon Island, S.E.	TS	d	USCG & PRBO	21
Granite Canyon	T	d	CFG	25
La Jolla: Scripps Pier surface	TS	d	SIO	36
La Jolla: Scripps Pier bottom	TS	d	SIO	38
Morro Bay	T	d	PG & E	26
Neah Bay, Washington	Т	d	NOAA/NOS	12
Pacific Grove	T	d	HMS	24
Point Dume, west of	Т	d	LAC	30
Point Mugu	Т	d	PMTC	29
Port San Luis	T	d	NOAA/NOS	27
Salt Point State Park	Т	d	CSP	18
San Clemente	TS	d	SC	34
Santa Barbara	Т	d	SB	28
Santa Cruz	T	d	CSC	23

STATION NAME	TYI	PE OF DATA COLLECTED	AGENCY	PAGE
Santa Monica	Т	d	NOAA/NOS	31
Trinidad Bay	T	ġ	CSU	17
Trinidad Beach	TS	d	CSU	15

California Department of Fish and Game, Marine Culture Lab CFG: City of Santa Cruz, California CSC: California State Park System CSP: Humboldt State University CSU: Hopkins Marine Station, Pacific Grove, California HMS: Los Angeles County LAC: National Oceanic and Atmospheric Admn./National Ocean Survey NOAA/NOS: City of Newport Beach, California NPB: Oregon State University, Corvallis, Oregon OSU: Pacific Gas and Electric Company PG & E: Pacific Missile Test Center PMTC: Point Reyes Bird Observatory PRBO: City of Santa Barbara, California SB: City of San Clemente, California SC: University of California, Scripps Institution of Oceanography, SIO: La Jolla, California University of California, Marine Laboratory, Bodega Bay UCML: USGG: United States Coast Guard

¹T: Surface temperatures
 ²S: Surface salinities
 ³d: Values taken daily



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11-20 MEANS SAMPLE SIZE	7.00	8.36	9.50	10.36	11.15	11.17	12.15	12.50	14.02	12.10	96°6	7.62
21-31 MEANS	77.77	8.12	9.56	11.13	12.20	12,69	12.46	12.50	11.68	9.80	8.95	7.56
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MONTHLY MEANS Sample Size	7.76	8.11	9.21 21	10.42	11.30	11.84	12.20	12.28	12 <u>-</u> 49 24	11.06	9.56	7.66
MAXIMUM VALUE	6.8	8.6	10.0	12.2	13.3	13.9	15.0	15.0	15.6	12.8	10.6	8.6
MINIMUM VALUE	6.1	7.8	×.	6.8	7-0	10.3	10.0	10.0	10.6	5.6	4.9	6.1
RANGE	2.8	8.0	1.9	3.3	٥ ١٣	3.6	5.0	5.0	5.0	7.2	7.5	2.5
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21-31 MEANS SAMPLE SIZE	10.54	10.48	11.06	10.66	12,30	11.79	11.33	12.70	11.72	12.34	11.28	10.14
MONTHLY MEANS Sample Size	10.73	10.42 18	11.11	10.97	12.17	11.08	11.46	12.56	12.58	12.72	11.56	10.50 26
MAXIMUM VALUE	11.6	10.6	11.6	11.9	13.4	12.8	12.8	14.3	15.0	14.0	12.3	11.2
MINIMUM VALUE	8.6	10.2	10.6	10.1	11.3	6-5	10.4	11.0	10.8	11.2	6.6	6.5
RANGE	3.1	7.0	1-0	9.1	5.1	3.6	7-2	3+3	7 • 5	2.8	2.4	1.7
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MEANS	10.80		11.40	10.37	10.94 7	10.26	11.05	14.68	14.87	12.56	11.67	10.65
MEANS SIZE	10.33		11.16	10.56 5	10.73	10.84 7	14.50	14.88	13.50	13.26	11.79	10.20
MEANS	11.02		11.51	9.35	11.14	11.12	13.97	15.33	12.73	12.45 8	11.04	9.35
MONTHLY MEANS Sample Size	10.72		11.38	10.06 17	10.99	10.77	13.17	15.01	13.70	12.73	11.50	10.08 20
MAXIMUM VALUE	11.4		12.2	11.7	14-4	12.2	16.1	16.1	16.4	13.9	12.2	11.1
MINIMUM VALUE	4.6		10.0	2.7	2.6	6° a	7-6	13.3	11.1	11_1	10.6	ه ه ه
	1.7		2.2	4.5	2.2	3.3	2.9	2.8	5.3	2.8	1.6	2.2
STANDARD DEV.	0.44		0.58	1.14	1.22	76°0	1.98	0.73	1.62	0.75	0.54	0.71

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ANNUAL MEAN

	æ F	RINIDAD B	EACH		r	SALTNITY	NITY				YEAR 198	4
AYS	JAN	FEB	MAR	APR	MAY	NDC	JUL	AUG	SEP	OCT	NOV	DEC
· · ·		2.6	2.		2.1	8		4.0		3.5	3.1	9.5
		2.7	5	4	32.81	33.87	33.89	33.68		3.4	ر د	0.1
		32.89	32_19	33.62	۶. ۲.	÷.		3.7	4	35.42	32.70	29-15
	22 02	4	7 *	7.	7	07 22	7		۱ ا م	, k	יי יי	9 0
	•	י נ	- 00	٠.	7	,	33.93		33.27) W	, ,	0.3
		2.5	×	Š	3.3	33.11))		1	3.0	2.0	0.5
		2.4	₩,	450	2.6			3.5		3.0	1.6	7.0
B.	31.29	2.0	٠,	M) I			33.83	33,88		5.9	0	1.1
		2.5	- L	٠, ٥	4	,	0.4	5.6	,	,	4.0	
Sak inj	7.0	٠ ر د د	ڻ د	ř	7	70°CC	, e		23 47	76.75) k	
) + ') +		٦.) (-) (-	, ,	י מ ייי	7	, K	, ,	י י	
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	7 4		30.08	۱۲,	2.7	3.6		33.78		N	, 00	
	•	0.6))	M	2.9		3.8	3.7		3.1	6	
	2.0	0.1		9	2.0		33.84		33.46	3.3	0.3	2.0
ż	2.0	7 6		۲.	2.8	3.9	8				1.4	2.0
	31.98	6		~	2.0	33.76	3.7			3.2	0.3	32.08
	2.1			Τ,	2.8	3.7	3.8			3.1	9.6	2.2
	1.7	4.6	٠	ď	3.3	3.7				3.1	2.6	
	1.7	1.2		Ň	3,3	4.1		33,49		3.1		
		1.5		Ś	3.0		33.80			3.2	37.78	
	2.4	1.		0	3.1			33.58	3.7	3.2		
	2.3	1.7		Š	3.3	3.6	3.6		8	3.2		
	2.2	2.1			5.9	3.9	33.59		3.7	3.3	1.5	
	32.94	30.50		33.86	W.	33.84	3.7	33.46	33.82	3.4	30.88	
	2.7	0.3	1	3.7	3.4	0.4		٠ د د	3.6	3.2	ניייל מיייל	
	20 r	5	32.90	×	×	3.	,	?		7 .		
	· · ·		ว า		33.65		09.60			32.50	0	
EANS SIZE	30.93	32.54	31.46 10	33,19	32.85	33.72	33.87	33.75	33.27	37.24	32,35	30.09 9
EAN S SIZE	31.77	30.86	30.93	32,23	32.51	33.71	33.84	33.74	33.51	33.13	29.89	32.13
N-S ZE	32.42	30.89	32.99	32.93 8	33.20 11	33.87	33.70 5	33_43	33.75	33.19	30.88	
ME ANS SIZE	31,93	31.47	31.56	32.76	32.86	33.77	33,81	33.64	33.55	33.19	31.96	30.72
VALUE	32.94	32.89	33.09	33.86	33.65	34.13	34.08	34.02	33.82	33.59	33.55	32.29
ALUE	30.33	28.90	30.08	30.78	31.76	33.11	33,59	33,30	33.17	32,50	25.92	29.15
	2.61	3.99	3.01	3,08	1.29	1.02	67.0	0.72	0.65	1.09	7.63	3.14
DEV.	29*9	1.15	0.87	0.72	0.47	0.23	0.13	0.20	0.22	0.22	1.91	1.12
						,				•	1	
ANNUAL MIN	25	5.92		ANNUAL "	KEAN	32.53		ANNUAL	JAL MAX	34	.13	

	TRI	TRINIDAD BA	>			TEMPE	EMPERATURE			>-	E4K 1984		
DAYS	JAN	FEB	MAR	APR	MAY	Nor	Jul	AUG	SEP	0CT	NON	DEC	
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1-10 WEANS SAMPLE SIZE	11.97	11.15	11.38	6 6 6	10.41	7 0 10 10	-	•	•			•	
11-20 MEANS SAMPLE SIZE	11.13	11.16	11.75	10.95	10.60	62°6	11.44	13.25	11.75	13.62	12.15	10.25	
T .	11,38	10.66	9.10	9.50	10.06	10.44	12.80	14_00	11.04	11.88	10.89		
MONTHLY MEANS	11.36	10.99	11.19	10.02	10.34	10.03	11.68	13.60	11.85	13.06	11.77	10.84	
SAMPLE SIZE	77			. K	12, 9	12.2		15.0	15.0	15.0	13.0	12.0	
MAXIMUM VALUE	2	-	•	•		•					0	101	
MINIMUM VALUE	10.5	10.0	٥ <u>.</u> ۵	2*3	ec	2	7.01	0.21	_	-) •	
RANGE	5.9	1.7	4-3	5.6	4-1	3.3	0 · 4	3.0	4.7	0-4	4.0	2.0	
STANDARD DEV.	99.0	0.40	1.39	1.37	1.09	0.91	1.16	0.74	1.24	1.32	0.85	0.77	
ANNUAL MIN		8.2		ANNUAL M	MEAN	11.39		ANNUAL	AL MAX	15	0,		

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SAVO	JAN FEB	MAR	APR	MAY	NOT	JUL	AUG SEP	100	NON	DEC
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		10.4		15.6	000		•			
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7				9.2	0-6	M	o			
		0	6.8	8.2	0.0	~	9.5			
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17	11.1	11.7	2.0	0.0	φ (Š.	11.4			
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55	1.0	80 c	m,	0	\circ					
31	11.0	c cc	•	0 IN 0 IN)		12.6			
1-10 MEANS SAMPLE SIZE		10.71	8.70	8.68	8.97 10	12.67	10.80			
11-20 MEANS SAMPLE SIZE	11.26	11.48	8,99	8.57 10	9.00	13.56 5	12.04			
21-31 MEANS SAMPLE SIZE	10.98 6	9.32	8.78	8_63	6 78*6	13.00	12.83			
MONTHLY MEANS SAMPLE SIZE	11.13	10.43	8.85	8.63	9.25	13.04	11,92			
MAXIMUM VALUE	11.8	11.8	7-6	8°6	10.8	15.2	13.7			
MINIMUM VALUE	10.6	8.4	8,3	ŭ*8	8.5	12.0	9.5			
RANGE	1.2	3.4	1.1	۳.	2.3	3.2	4.2			
STANDARD DEV.	0.34	1.04	0.32	0.50	6.65	0.79	1.08			
ANNUAL MIN			ANNUAL ME	MEAN			ANNUAL MAX	×		

SALT POINT

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YEAR 1984

TEMPERATURE

	BODEGA	GA BAY				TEMPE	RATURE			>	FAR 1984	
DAYS	JAN	FEB	MA R	APR	MAY	No.	Jul	AUG	SEP	OCT	NON	nec
- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		12.3	10.9	O 00 O	9.8	ು	12.8	12.2		88		2,4
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~ & 0		12.5	11.2		ແນວ ພ້ວລືດີ	#		11.4	-	4		,
10,	11.0		1	10.2		•	10.6	2.	mm.	14.0	1	12.3
122			21.5	9.5		9 0 0 0 0	11.0	2,4	13.0	4	12.5	12.0
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17	11.2	-		600		C	, v	2	14.0	00		00
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	-	11.4		•	•		•		12.8	4-	2	<u>.</u>
22 23 23	•	11.2	0.0	•	ο « » α		14.6	12.5	~			
2 C) 2 R/	11. 14.			0 N N 0 au 0		0.0	15.0	•	12.3	11.7	~	
2	12.0	11.0	6.5			10.5	7.	¥.	, w	!	12.4	
29 30 31	12.4	6	•	8.2	11.0	0	13.0	12 12 12 12 12 12 12 12 12 12 12 12 12 1		11.4	7	
1-10 MEANS SAMPLE SIZE	11.22	12.50	11.07	9.54	9-34	10.57	12.48	11.91	12.76	13.86		12.20
11-20 MEANS SAMPLE SIZE	11.07	11.52	11.84	9.62	8.57	10.20	14.50	12.48	13.56	12.01	12.34	11.26
21-31 MEANS SAMPLE SIZE	11.67	11.03	9.54	8.55	67*6	10.31 7	13.47	13.01	12.66	11.41	12.32	11.00
MONTHLY MEANS SAMPLE SIZE	11.38	11.71	10.79	9.30	9.18	10,35	13.54	12.49	13.09	12.43	12.33	11_60
MAXIMUM VALUE	12.5	12.7	12.5	10.5	11.1	11.1	16.3	14.1	14.8	14.3	13.0	12.3
MINIMUM VALUE	10.8	10.8	80	8.0	8.3	6.6	10.6	10.9	11.8	10.4	12.0	10.2
RANGE	1.7	1.9	3.7	5.5	2.8	1.2	5.7	3-2	3.0	3.9	1.0	2.1
STANDARD DEV.	0.54	0.70	1.11	92.0	76°0	0.35	1.81	0.73	92.0	1.39	0.26	92.0
ANNUAL WIN	~	0.8		ANNUAL ME	EAN	11.52		ANNUA	IE MAX	16.	м	

	DEC	33.00 32.81 32.81 32.96	5.4 3.2 3.4	พ.งพ.งง ส.ง.ต.ง.ง	32.95 33.02 32.96 32.96 33.47 32.48 0.99
YEAR 1984	NON	32.80 33.79 32.82	33.23 33.33 33.33 32.94 33.02 32.80	2.81 2.81 3.00 2.90 2.92 2.52 2.52	33.16 32.94 33.00 33.01 33.79 32.52 1.27
	130	33.55 33.55 33.44 33.45	44,644	60000	33.52 33.45 33.53 33.50 33.84 33.18 0.66
	SEP	33.33 33.70 33.73	n www w		33.57 33.39 33.66 33.52 33.99 32.00 1.99
	AUG	67.9	am mm mmm ;	iùù 4mmu mm mm m 'A4 4m44 ni, 0 <u>w</u> 4	33.69 33.48 33.59 33.59 34.47 33.12
SALINITY	JUL	34.55 33.87 34.01 31.02	₩ φ. Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν Ν	34 34 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	33.31 33.31 33.34 33.34 33.34 4.70 1.14
SAL.	NOS	34.21 33.88 33.94 33.88	4 4 4	D0804 70040 R	33.56 34.06 33.65 33.77 33.75 34.36 31.45 2.91
	MAY	7 4 4 7	0000	now independ now in	
	APR	33.94 33.96 34.01 34.20 34.25	4 4 4 6 8 9 9 4 4 6 9 9 9 4 9 9 9 9 9 9 9 9 9 9 9		* * * * * * * *
	MAR	32.96 33.55 33.06	NO WOLK	NO MAMAM NO N	9 N M M N H D
BODEGA BAY	FEB	31.14 31.59 31.80	32.65 31.77 32.55 32.21 32.21	32.45 32.63 33.05 33.34 33.32 33.15 33.36 33.41	32.56 32.56 33.27 6 32.58 32.58 33.41 31.11
ä	JAN	29.68 28.04 27.95	30.74	₩ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	DAYS	← NM ← N ⊙ №	**************************************	16 17 19 20 22 22 23 24 25 26 26 28 30 31	11-20 MEANS SAMPLE SIZE SAMPLE SIZE 21-31 MEANS SAMPLE SIZE MONTHLY MEANS SAMPLE SIZE MAXIMUM VALUE MINIMUM VALUE RANGE STANDARD DEV.

	FAR	ARALLON IS	LAND			TEMPE	EMPERATURE			>	EAR 1984	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NON	DE C
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72		ن ا	٠,٠	בי כ	ים כי	c		Mi	'n.	2	۸,	2
23		N	2	0	0	₩,	M.	M,	'n.	2,0	13.5	12.0
54		٠.	N, r	•			* w	ů	. 4	; ~	3.5	• •
25		<u>.</u> ر	Ú.			- ,-	'n	'n		2.	3	
27		-	-		ċ	٠,	5	*	4.	2,0	۲	12.0
2.8		N i	-	•	۲.	٠, ۴	'n,	, 4	, 4	, k	13.1	
29 30 31	13.2 13.2	j	10.6		24.		13.1	14.4	4	13.1	M.	11.3
-10 MEANS MPLE SIZE	•	13.04	12.64	10.86 9	10.51	10.94	12.47	13.26	14.53	15.29	12.27	13.06
1-20 MEANS AMPLE SIZE	12,02	12.73	12.77	11.20	10.39	10.82 10	13.47	13.61	14.47	13.81	13.46	12.53
1-31 MEANS	12_83	12.08 9	11.52	9.97	10.97	11.22	14.08	14.06	14-40	12.53	13_12	11.85
IONTHLY MEANS AMPLE SIZE	12.43	12.63	12.31	10.67	10.64	11.00	13.36	13.66	14.47	13.78	13.07 16	12.46
y Will V	13.2	13.5	13.2	11.9	13.0	11.8	15.2	15.0	15.0	15.9	13.8	13.2
MINIMUM VALUE	11.7	11.7	10.4	9.3	6.6	10.3	11.2	12.7	13.5	12.0	11.9	11.3
RANGE	1.5	۳. ب	2.8	9.5	r.	1.5	0.4	2.3	1.5	3.9	1.9	1.9
STANDARD DEV.	0-48	0.48	0.75	29.0	0.65	0.36	1.01	0.57	0.37	1.40	65.0	0.56
ANNUAL MIN	-	9.3		ANNUAL ME	. N	12.54		ANNUAL	AL MAX	15.	Φ.	

Maria Mari	10 S	FA	FARALLON I	SLAND			SALI	SALINITY				YEAR 1984	4	
51169 32.6.7 32.6.9 33.6.7 33.6.9 33.6.9 33.6.7 33.6.8 33.6.9 33.6.8 33.6.8 33.6.9 33.6.8 33.6.8 33.6.9 33.6.8 33.6.8 33.6.9 33.6.8 </th <th>DAYS</th> <th></th> <th>FEB</th> <th>MAR</th> <th>APR</th> <th>⋖</th> <th>NOF</th> <th>ากเ</th> <th></th> <th>ш</th> <th>130</th> <th>NOV</th> <th>DEC</th> <th></th>	DAYS		FEB	MAR	APR	⋖	NOF	ากเ		ш	130	NOV	DEC	
FALSE STATES STA	- r	4.6	2.6	32.95	3.6	3.6	50 K	4.3	3.6	IV.	33.53	33.56	33.46	
FANS STATE S	y M ×	7.3	100	31.87	3 9 6	9.0	30.	3.7	0 W N	0.00	4.1		33.46	
25.54 33.15 32.87 33.47 33.89 33.77 33.89 33.79 33.79 33.89	t in	6-9	2.5	32.66) 1	•	w.	3.7	3.7	ייי כ	3 5		7.0	
25.12 32.10 32.71 33.47 33.69 33.59 33.56 33.69 33.79 33.65 33.67 33.65 33.67 33.67 33.65 33.67 33.65 33.67 33.67 33.69 33.70 33.65 33.67 33.67 33.67 33.69 33.67 33.69 33.60 33.70 33.65 33.67 33.69 33.60 33.70 33.67 33.69 33.60 33.70 33.69 33.60 33.70 33.69 33.60 33.70 33.70	% N	5.52	4.4	32.83	300	~ «	MM	M W	3.7	N. R.	33.52	ار ب	33.32	
25.12 32.48 32.86 33.40 35.40 35.87 35.77 35.68 35.57 35.68 35.57 35.68 35.50 35.69 35.50 35.69 35.50 35.69 35.69 35.69 35.69 35.69 35.20 35.20 35.20 35.40	- 00	3.2	2.1	32.71	3.4	8	M	3.6	, M	ivi	3.5	33.49	2.8	
27.53 32.04 32.06 33.38 33.04 33.06 33.79 33.00 33.20 25.04 32.20 33.20 33.00	٥,	5.1	4.5	32.86	4 34	9	м. ч	W W W	3.6	v. ,	2. r			
26.96 32.22 33.40 33.69 33.99 <td< th=""><th></th><td>7.5</td><td>2.0</td><td>32.96</td><td>t M</td><td>. 0.</td><td>ŧ'n,</td><td> </td><td>0 0 0 M</td><td>פע</td><td>7.0</td><td></td><td>33.05</td><td></td></td<>		7.5	2.0	32.96	t M	. 0.	ŧ'n,	 	0 0 0 M	פע	7.0		33.05	
25.91 32.82 32.96 33.44 33.66 34.06 33.67 33.87	12	6 9	2.3	32.88	3.4	0	3	3.7	4.1	100	3.4		2.9	
COLUMN STATE	m·	5.9	2	32.96	3.4	9.	4.	3.V	9,0	v.	3.7		3.2	
27.11 32.60 33.06 33.73 33.94 33.87 33.50 33.62 33.62 33.52 27.97 33.53 32.92 33.64 33.55 32.54 33.54 33.55 32.54 33.54 33.55 32.58 32.59 32.59 33.64 33.55 33.64 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.54 33.55 32.54 33.54 33.55 33.54 33.54 33.54 33.55 33.54 33.54 33.55 33.55	4 V	0.0 0.0	2.5	52.99	4 K	× 00	ก์ท	4 W	40 W	'n	د	3.5	3.0	
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27.55 32.58 32.97 33.53	17	7.9	2.5	32.80	3.5	0	m	3.4	3.6	٠,	3.5	33,33	3.1	
Z-7, 10 3 2 2 2 3 2 4 5 3 2 4 7 5 3 2 5 7 5 3 3 2 8 7 5 7 5 3 2 5 7 5 2 5 7 5 2 5 7 5 2 5 7 5 2 5 7 5 2 5 7 5 2 5 7 5 2 5 7 5 2 5 7 5 7	00	7.5	2.5	32.97	3.5		4,	W.	900	, ·	7.5	,	3.1	
EANS 26.78 28.78 28.77 28.78 28.77 28.78 28.77 28.78 38.29 38.39 38.49 38.29 38.39 38.	19) F	٠, د د د	32.49	0° M	× ×	'n	ر • د د ۲	0 %	יי יי	33.56	55.61	5.	
29.73 32.66 33.09 33.76 33.93 33.89 33.89 33.85 33.82 33.85 33.87 33.89 33.89 33.89 33.89 33.89 33.89 33.88 33.91 33.55 33.87 33.81 33.91 33.25 33.87 33.87 33.89 33.93 33.99 33.99 33.99 33.90 33.91 33.89	2.5	8.7	2.7	32.66	3.5	3.0	M	3.6		, 67	3.6			
## 30.79 ## 30.79 ## 30.79 ## 31.07 ## 31.	22	6.7	5.6	33.99	3.7	3.9	m	3.5	3.8	9	3.5	3.5	2.8	
52.51 52.78 55.88 55.98 55.99 55.97 55.79 55.87	23	7.0	- 1	33,20	3.6	0.4	m,	100 t	3.6	, Ind	W 1	W. I	W.	
32.10 33.27 33.44 33.92 33.96 33.90 33.79 33.62 33.83 32.37 33.27 33.44 33.98 33.96 33.96 33.79 33.77 33.53 32.57 33.17 33.64 33.98 33.96 33.89 33.77 33.73 33.64 33.89 33.89 33.87 33.79 33.59 33.77 33.25 33.246 33.77 33.82 33.84 33.84 33.85 33.87 33.59 33.77 33.78 33.84 33.84 33.86 33.89 33.77 33.75 33.82 33.84 33.84 33.86 33.89 33.77 33.78 33.84 33.84 33.86 33.89 33.77 33.82 33.84 33.86 33.89 33.77 33.82 33.84 33.89 33.87 33.89 33.77 33.82 33.88 33.89 33.89 33.77 33.82 33.88 33.89 33.89 33.77 33.82 33.89 33.89 33.89 33.77 33.82 33.88 33.94 33.89 33.77 33.88 33.89 33.95 33.65 33.89 33.77 33.89 33.89 33.97 33.89 33.77 33.89 33.89 33.97 33.89 33.77 33.89 33.89 33.89 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.77 33.89 33.89 33.79 33.79 33.79 33.79 33.79 33.79 33.79 33.89 33.79 33.79 33.79 33.79 33.79 33.79 33.79 33.79 33.89 33.79	24	ריי ע סיית	7-7	35.08	2, K	4; k	٠, ٠	ν. γ. κ	0 0 0	4.0	4, K	35.56	55.24	
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32.94 33.05 33.59 33.91 33.69 33.97 33.61 33.60 33.69 33.29 32.27 33.00 33.76 33.85 33.68 33.85 33.87 33.59 33.59 33.23 32.246 33.26 33.82 33.69 33.88 33.86 33.85 33.59 33.59 33.59 33.61 33.64 33.55 33.88 SIZE 9 10 10 10 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	27	2.3	3.1	33.61	3.9	3.9	'n	3.6	3.7	Υ,	3.5		33.04	
SALAS 32.07 33.00 33.64 33.82 33.69 33.88 33.85 33.59 33.64 33.24 33.64 33.85 33.64 33.55 33.64 33.55 33.64 33.56 33.88 33.64 33.55 33.59 33.64 33.246 33.246 33.87 33.64 33.88 33.64 33.55 33.59 33.62 33.77 33.63 33.88 33.95 33.62 33.77 33.62 33.75 33.75 33.62 33.75 33.7	28	2.9	9.0	33.59	3.9	3.6	w. r	9 P	9 P	٠, ۰	50 K	33.63	2.9	
FANS 27.08 32.36 32.77 33.63 33.84 35.94 33.64 33.56 53.56 53.246 33.77 33.63 33.84 33.94 33.94 33.84 33.56 33.77 33.62 33.77 33.62 33.77 33.62 33.77 33.62 33.77 33.62 33.78 33.88 33.95 33.62 33.75 33.85 SIZE 31.67 32.97 33.37 33.84 33.88 33.97 33.67 33.66 33.91 33.67 33.67 33.66 33.91 33.67 33.85 33.93 33.77 33.68 33.71 33.67 33.85 33.93 33.77 33.68 33.77 33.88 33.93 33.77 33.93 33.77 33.98 34.13 34.31 34.30 34.15 33.89 33.67 33.86 33.57 33.89 34.13 34.31 34.30 34.15 33.89 33.77 33.98 34.13 34.31 34.30 34.15 33.89 33.77 33.98 34.13 34.31 34.30 33.36 33.51 33.99 0.67 2.08 1.90 0.63 0.51 0.51 0.51 0.94 0.64 0.90	42	,,	n•c	79 22	, w	יי האים	'n	- 00 1 M) W		ין ניכ מי) W	K	
EANS 27.08 32.36 33.63 33.81 33.94 33.89 33.71 33.71 33.81 SIZE 9 7.04 32.53 32.85 33.88 33.95 33.62 33.75 33.77 SIZE 31.67 32.97 33.37 33.84 33.88 33.91 33.67 33.75 33.75 SIZE 11 32.97 33.37 33.84 33.85 33.97 33.67 33.66 33.77 NALUE 32.94 33.27 33.85 34.13 34.31 34.35 33.77 33.86 VALUE 32.27 33.77 33.98 34.13 34.31 34.35 33.57 33.57 VALUE 32.27 33.77 33.86 34.31 34.31 34.35 33.57 33.57 VALUE 23.27 31.19 31.87 33.35 33.36 33.36 33.35 33.57 33.57 9.67 2.79 0.41 0.51 0.51 0.	31	2.4		33.77	•	o oc	,	. W	M	•	3.5	.	32.67	
EANS 27.14 32.53 32.85 33.53 33.88 33.95 33.62 33.75 33. EANS SIZE 9 10 10 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	HEAN CT 7	0.7	2.3	2.7	3.6	3.8	3.0	3.8	3.7	3.6	33.63	33_53	33.22	
EANS	710	,		2			•				•	1	-	
EANS 31.67 32.97 33.37 33.84 33.88 33.91 33.67 33.66 33.66 33.67 33.66 33.66 33.67 33.66 33.73 33.73 33.71 33.66 33.73 33.73 33.71 33.67 33.86 34.31 34.30 33.77 33.77 33.86 34.31 34.30 34.15 33.71 33.86 34.31 34.36 34.35 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.37 33.86 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.36 33.37 33.36	O MEAN LE SIZ	7.1	2.5	2.8	3.5	80	3.9	3.6	3.7	3.5	33.57	33.51	33.13	
NEANS 28.84 32.60 33.01 33.67 33.85 33.93 33.73 33.71 33. SIZF VALUE 32.94 33.27 33.77 33.98 34.13 34.31 34.30 34.15 33. VALUE 23.27 31.19 31.87 33.35 33.62 33.80 33.36 33.51 33. SIZF 9.67 2.08 1.90 0.63 0.51 0.51 0.94 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.6	MEAN E SIZ	1.6	2.0	3.3	3.8	3.8	W	3.6	3.6	3.5	33.60	33.41	33.05 8	
VALUE 32.94 33.27 33.98 34.13 34.31 34.30 34.15 33.15 33.52 33.36 34.31 34.36 34.35 33.36 33.36 33.36 33.36 33.36 33.36 33.37 33.37 33.36 33.37 33.37 33.36 33.37 33.36 33.36 33.36 33.36 33.36 33.37 33.36 33.37 33.36 33.37 <th< th=""><th>MEAN SIZF</th><td>8.8</td><td>2.6</td><td>3.0</td><td>3.6</td><td>, sq.</td><td>3.9</td><td>3.7</td><td>3.7</td><td>8. 8. 8.</td><td>33.60</td><td>33.46</td><td>33.13</td><td></td></th<>	MEAN SIZF	8.8	2.6	3.0	3.6	, sq.	3.9	3.7	3.7	8. 8. 8.	33.60	33.46	33.13	
VALUE 23.27 31.19 31.87 33.35 33.62 33.80 33.36 33.51 33. 9.67 2.08 1.90 0.63 0.51 0.51 0.94 0.64 0. 0 DEV. 2.79 0.43 0.41 0.19 0.14 0.14 0.21 0.21 0.14 0.	MUM VALU	5.5	3.2	3.7	3.9	4.1	4.	4	4.1	34	34.15	33.63	33.46	
9.67 2.08 1.90 0.63 0.51 0.51 0.94 0.64 0. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3.2	-	OC.	3.3	3.6	3.8	3.3	3.5	3.3	33.43	33.30	32.67	
D DEV. 2.79 0.43 0.41 0.19 0.14 0.11 0.21 0.14 0.	ш	29.6	o.	ъ.	••	i		6.	•	₹,	0.72	0.33	0.79	
	o DEV	~	7.	7.	-	۲.	Τ,	.2	~	•	9.14	6.13	6.21	
ANNUAL MIN 23.27 ANNUAL MEAN 33.09 ANNUAL MAX	ANNUAL MIN	23	.27			IE A N	33.09		N K		34.	.31		

	SANTA	TA CRUZ				TEMPE	PERATURE			>	EAR 1984	
DAYS	JAN	FEB	MAR	APR	MAY	NUL	101	AUG	SEP	100	NON	DEC
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30 31	13.4		11.7	2	12.8			16.8 14.8		13.6		11.8
1-10 MEANS SAMPLE SIZE	13.62 10	13.47	13.36	12.57	12.32	13.32	15.00	16.06	16.60	15.40	12.91	13.14
11-20 MEANS SAMPLE SIZE	13.55 8	13.51	13.98	13.07	13.36	14.43	16.02	16.02 8	16.50	14.66	13.84	12.60 10
21-31 MEANS SAMPLE SIZE	13.11	12.89	13.22	12.04	14.03	14,30	16.52	15.84	16.27	13.62	13.66	12.07
MONTHLY MEANS SAMPLE SIZE	13.46	13,32	13.58	12.44	13.14	14.05	16.02 20	15.97	16.45	14. 16 20	13.50	12.63
MAXIMUM VALUE	14.0	13.8	14.4	15.1	15.8	15.2	18.4	16.8	17.4	16.2	14-4	13.4
MINIMUM VALUE	12.2	12.4	11.7	10.0	10.0	11.6	14.0	14.8	15.4	13.4	12.4	11.8
RANGE	×.	1.4	7-2	5.1	ν. ο	3.6	7-7	2.0	2.0	2_8	2.0	1.6
STANDARD DEV.	07-0	0-40	99.0	1.37	1.40	96*0	1.04	0.54	0.63	0.82	75.0	0.51
ANNUAL YIN	7	0-0		INNUAL ME	MEAN	14.06		ANNUA	IL MAX	<u>*</u>	4	

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	1-10 MEANS SAMPLE SIZE	12.94 10	13, 12 40	12.87	11.93	12.22	12.67	14-44 10	14. 89	15.15	15.99	12.85	13 <u>.</u> 09 10
	11-20 MEANS SAMPLE SIZE	12.42	13.16	13.20	12.02	11.86	13.26	16.20	14-44	15.60	14.85	14.15	12.26 10
	21-31 MEANS	12.60	13.00	12.84	12.01	12_11	13.02	16.58	15.03	15.17	12.71	13.61	11.97
	AFFLE SIZ		•	<u>-</u>	2					2		-	
	MONTHLY MEANS SAMPLE SIZE	12.65	13.10	12.96	11.99	12.06	12.98	15.77	14.79	15.31 30	14.46	17.54	12.43
	MAXIMUM VALUE	13.2	13.8	13.9	13.0	13.8	15.0	17.9	15.8	16.5	16.5	14.6	13.5
	MINIMUM VALUE	12.0	12.5	12.0	11.11	10.9	12.0	13.2	13.7	13.1	12.1	11.9	11.8
	RANGE	1.2	1.3	1.9	1.9	5.5	3,0	4.7	2.1	3.4	7-7	2.7	1.7
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	STANDARD DEV.	0.37	0.29	0.47	0.51	0.62	0.63	1.16	0.55	0-71	1.57	67.0	0.56
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	ANNUAL MIN	F	10.9	***	ANNUAL ME	m AN	13,50		ANNUAL	I MAX	•)		

	GRA	GRANITE CAN	YON			TEMPE	MPERATURE			> -	FAR 1984		
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30 31				•	11.0	o o	3.5	23	4		2	12.1	
1-10 MEANS AMPLE SIZE	13.22	12.99	11.53	9.90 10	9.37	10.97	12.41	12.04	12.91	13.58 10	13,51	13.19	
1-20 MEANS AMPLE SIZE	12.59	12.12	11.61	10.10	9.02	11.18	14.36	13.32	14.57	12.45	14.68	12,39	
1-31 MEANS AMPLE SIZE	12.56	10.83	9.99	9.32	9.73	11.09	13.65	13.85	14.59 10	11.89	13.07 10	12,38	
ONTHLY MEANS AMPLE SIZE	12.78	12.02	11.01	9.77	9-40	11.08	13.48	13.09	14.02	12.62	13.72	12.65 30	
AXIMUM VALUE	13.7	13.7	12.2	11.2	11.0	12.7	16.7	15.0	16.6	14.1	15.2	14.2	
INIMUM VALUE	11.6	10.5	9.5	8.0	8.1	8.0	10.6	11.1	11.9	11.6	11.8	10.9	
ANGE	1.2	3.2	7.5	3.2	5.9	5.9	6,1	3.9	4.7	55	3.4	× ×	
TANDARD DEV.	0.54	0.98	06.0	0.65	77.0	0.63	1.60	1.03	1.22	0.85	1.05	72.0	
ANNUAL MIN	~	8.0		ANNUAL WE	WEAN	12.14		ANNUA	IL MAX	16.	.7		

Manager Andrews (All Property of the Control of the	OH.	HORRO BAY				TEMPE	TEMPERATURE			×	YFAR 1984		
SX V Q C C C C C C C C C C	JAN	FEB	MAR	APR	MAY	NOT	Jur	AUG	SEP	100	NOV	DEC	
	14.4		MIN	٧;	~ .	M L	Š	•	•	٠,	Mi	2.	
ı m	13.9	mI	14.4	12.8	12.8	15.0	15.6	15.0	14-4	16.1	13.9	12.2	
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3.50			- 2	-		ň		2.		ก้ท	ก๋	7.	
1-10 MEANS SAMPLE SIZE	13.99	13.99	13.67	12.72 10	12.79 10	13.83	15.51	15.11	15.72	16.52 10	13.66	12.38	
11-20 MEANS SAMPLE SIZE	13.54 10	13.99	13.78	12.61	12.84	14.55	17.22	18.43	18.00	14.45	14.71	12.04	
21-31 MEANS SAMPLE SIZE	13.27	13.02	12_57	11.57	13.57	14.21	16.77	17.28	17.19	13.07	13.28 10	11.52	
NONTHLY MEANS	13,59	13.69	13.32	12.30	13.08	14.20	16.51	16.95	16.97	14_63	13.88	11.96	
HAXIMUM VALUE	14.4	15.0	14.4	13.3	15.6	16.7	19.4	19.4	6. 0.	16.7	15.0	13.3	
	40	10 8	4										
	j.	•	•	5	-	•	*	* • • •	3 • 4 •	7.71	2-71	-	
ANGE	1.6	2.2	3.3	2.2	3.9	5.0	5.0	5.5	4.5	4.5	2.2	2.2	
TANDARD DEV.	0.45	0.63	0.82	92*0	0.80	1.13	1.26	1.61	1.25	1.64	7.81	92.0	
ANNUAL MIN	10	10.6	«	ANNUAL PE	FEAN	14.26		ANNUSL	L MAX	10.	4		

	PORT	SAN	UIS			TEMPERATU	RATURE			>	FAR 1984	
DAYS	JAN	FEB	Z A R	APR	#AY	3 UN	JUL	AUG	SEP	0CT	NON	PEC
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6 2			12.2		κ,					12.8	2.	
30 31	13.3		~	11.7	13.3		17.8			,	,	12.2
1-10 MEANS SAMPLE SIZE	13.05	13.13	12.63	11.78	11.91	17.12	16.68	16.51	18.85	17.78	13.01	13.12
11-20 MEANS SAMPLE SIZE	13.11	13, 22	13.16	13.24	13.86	14.30	17.79 8	17.87	18.39	14.86	14.40	13.05
21-31 MEANS SAMPLE SIZE	13.09	12.37	12.56	11.70	13.86 8	16.60	17.42	18.05	18.15	13.24	12,88	12.07
MONTHLY MEANS SAMPLE SIZE	13.09	12.89	12.77	12, 29	13.18 20	15.81	17.38	17.49	18-41	15.03	13.44	12.84
MAXIMUM VALUE	13.3	13.6	13.3	14.4	16.7	17.8	18.3	18.9	19.4	18.9	14.4	14.4
MINIMUM VALUE	12.8	12.2	12.2	11.2	11.7	13.9	15.6	15.6	17.8	12.8	11.7	11.7
RANGE	0.5	1.4	1.1	3.2	5.0	3.9	2.7	3.3	1.6	6.4	2-7	2.7
STANDARD DEV.	0.25	0.47	0.42	1.08	1.29	1.38	0.83	1.05	0.48	50.5	1.03	86.0
ANNUAL MIN	•	1.2		ANNUAL MI	MEAN	14.55		ANNUAL	IL MAX	19.	7	

	SAI	SANTA BARB	IRA			TEMPE	MPERATURE			> -	EAR 1984	
SAY O	JAN	FEB	MAR	APR	MAY	NUS	JUL	AUG	SEP	100	NON	DEC
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30 31	15.0		16.8 16.8	50		6	19-4	21.1	ö	16.2 16.2	m.	12.4
1-10 MEANS SAMPLE SIZE	15.54	15.09	14.76	15.99	15.51	19.20	18.88	18.60,	20.98	18.19	16.57	14.12
11-20 MEANS SAMPLE SIZE	15.08	14.59	15.52	16.00	16.01	19.35	18.66 10	20.56	20.77	17.84	15.55	12.93 10
21-31 MEANS SAMPLE SIZE	14.75	13.96	16.38	15.47	16.35	18.43	18.95	20.97	20.92	16.55	14.03 10	12.N9 11
MONTHLY MEANS SAMPLE SIZE	15.11	14.57	15.62	15.83	15.95	18.79	18.84	20°02	20.87	17.50	15.38	13.02
MAXIMUM VALUE	16.4	15.5	16.8	16.8	17.1	10.8	19.5	25.2	21.7	20.0	17.2	14.6
MINIMUM VALUE	14.4	13.5	14.2	15.0	15.2	17.5	17.8	18.3	18.9	15.5	13.2	10.8
RANGE	2.0	2-0	5.6	1.8	1.9	M) 4 C.	1.7	3.9	2 . 8	5.4	7.0	જ*દ
STANDARD DEV.	97.0	6.63	0.78	95"0	27.0	0.82	97.0	1.28	0.63	0.93	1.15	1.03
ANNUAL MIN	10	ω •	⋖ ₹	NNUAL *	E A N	16.70		ANNUA	IL MAX	. 52	2	

	POI	POINT MUGU				TEMPE	EMPERATURE			>	EAR 1984	
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30 31	13.9	5	14.9		13.3	9	15.0 15.2	15.7	9	16.8	4	13.4
1-10 MEANS SAMPLE SIZE	15.12	14.70	14.06	14.17	12.71	15.51	15.22	17.66	17.54	17.25	15.93	14.25
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11-20 MEANS SAMPLE SIZE	14.38	13.70	14.51	14.30	14.87	16_80	16.18	19.74 10	16.38	10	10	# 60 7
21-31 MEANS SAMPLE SIZE	13.99	13.07	14.87	12.32	16.53	15_47	16.51	17,53	17.96 10	16.13	15.38	13_19
ONTHLY	14.48	13.85	14.49	13.60	14.76	15.93	15.99	18.28	18.03	16.49	15.70	13_71
AMPLE SI	. 51	67	-5	nc C)		;	
MAXIMUM VALUE	15.7	15.2	15.8	15.5	18.0	17-71	20.3	20-7	21.0	18.0	17.1	14.9
MINIMUM VALUE	13.5	12.4	13.4	11.2	11.3	13.3	14.0	15.6	15.6	15.3	13.5	12.7
	2.2	2.8	2.4	4.3	2.9	4-4	6.3	5.1	5.4	2.7	3.6	2.2
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STANDARD DEV.	0.58	78-0	0.59	1.37	2.08	1.02	1_43	1.52	78.	80-0	00-1	00.0
NT & CALLANA	-	11.2		ANNUAL M	MEAN	15.44		ANNUA	AL MAX	21.		

The color of the	The second secon	РО	POINT DUME				TEMPE	MPERATURE			>-	YEAR 1984	
1	SX Vd FR	JAN	فقا	*	APR	-	NUL	JUL	\Rightarrow	SEP	100	NON	DEC
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30 16.6 14.9 13.9 17.3 17.8 19.4 20.6 21.1 17. 17. 10.0 MEANS	6 ;	9		ø.	2	۲.	7.	6	Ċ.	der.	7.	S	4.
1-10 MEANS	30 31	5.6		4 4	m.	۲.	۲.	66	00	4	~;	r.	14.4 14.4
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1-20 means 14.83 14.05 15.93 15.26 16.23 18.10 19.26 21.69 21.69 17.08 17.09 17.62 19.26 21.69 21.69 17.09 17.62 19.33 20.83 21.25 17.09 17.62 19.33 20.83 21.25 17.1 17.01 17.62 19.33 20.83 21.25 17.1 17.01 17.02 17.09	1-10 MEAN Ample SIZ	7.0	5.2		5.1	5.4	28.	7.9	S	1-2	•	16.94 10	15.25
1-31 MEANS 15.35 13.70 15.48 14.28 17.99 17.62 19.33 20.83 21.25 17.25 17.99 17.62 19.33 20.83 21.25 17.25 17.18 17.99 18.86 20.74 21.18 18.86 18.86 20.74 21.18 18.86 18.86 20.74 21.18 18.86 18.86 20.74 21.18 18.86 20.25 20.25 20.01 10.44	1-20 MEAN AMPLE SIZ	4.8	4.0	6,	5.2	2		۲,	1.6	1.0	. •	15.74	14.40
AMPLE SIZE AMPLE SIZE AMPLE SIZE AXIMUM VALUE 16.7 15.6 16.7 16.7 19.0 19.4 20.5 21.18 18.18 18.3 AXIMUM VALUE 16.7 19.0 19.4 20.6 23.3 22.2 20. INIMUM VALUE 14.0 13.2 14.6 12.8 14.0 17.2 16.7 19.4 20.0 16.7 19.4 20.0 16.7 16.7 17.2 16.7 19.4 20.0 16.8 INIMUM VALUE 14.0 13.9 5.0 2.2 3.9 3.9 3.9 2.2 3.1 INIMUM VALUE 14.0 15.6 16.7 16	1-31 MEAN AMPLE SIZ	5.3	Μ.	4.	4.2	7.9	9.4	K. 4	0.8	1.2	. •	15.38	14.35
AXIMUM VALUE 16.7 15.6 16.7 16.7 19.0 19.4 20.6 23.3 22.2 20.8 INIMUM VALUE 14.0 13.2 14.6 12.8 14.0 17.2 16.7 19.4 20.0 16.8 ANGE 2.7 2.4 2.1 3.9 5.0 2.2 3.9 3.9 2.2 3. TANDARD DEV. 0.73 0.90 0.63 0.82 1.40 0.57 1.13 1.06 0.61 1.	ONTHLY MEAN Ample size	5. V.W.	4.3	NW	8. Y	6.6	o, M	ω M	0.7	1.1		16.02	14.66
INIMUM VALUE 14.0 13.2 14.6 12.8 14.0 17.2 16.7 19.4 20.0 16. ANGE 2.7 2.4 2.1 3.9 5.0 2.2 3.9 3.9 2.2 3. IANDARD DEV. 0.73 0.90 0.63 0.82 1.40 0.57 1.13 1.06 0.61 1.	AXIMUM	•	Š	•	•	•	•	o.	W.	2	0	17.4	5. 8.
INIMUM VALUE 14.0 13.2 14.6 12.8 14.0 17.2 16.7 19.4 20.0 16. ANGE 2.7 2.4 2.1 3.9 5.0 2.2 3.9 3.9 2.2 3. TANDARD DEV. 0.73 0.90 0.63 0.82 1.40 0.57 1.13 1.06 0.61 1.													
ANGE 2.7 2.4 2.1 3.9 5.0 2.2 3.9 3.9 2.2 3. TANDARD DEV. 0.73 0.90 0.63 0.82 1.40 0.57 1.13 1.06 0.61 1.	INIMOM	14.0		•	•					0	•	15.0	13.9
TANDARD DEV. 0.73 0.90 0.63 0.82 1.40 0.57 1.13 1.06 0.61 1.	A NG	2.7	•	•	•	•	•	٠	•	•		5-4	1.9
	TANDARD D	•	•	9.	on •	4.	•	Γ.	0.	9.		0.78	0.52
ANNUAL MIN 12.8 ANNUAL MEAN 17.01 ANNUAL MAX		12	«°	•		A N	17.01		ANNU		23.	м	

	SAN	SANTA MONIC	•			TEMPE	TEMPERATURE			>	YEAR 1984	
DAYS	JAN	FER	MAR	APR	KAY	NOC	300	AUG	SEP	130	MON	りきじ
-	15.6							21.7		21.1		· · · · · · · · · · · · · · · · · · ·
2 ^	14.7	15 K	16.1					20.0	23.3	19.4	17.8	14.4
n 4	5.0	1	;	9				0			1	13.9
· (14.7	+ 7+	16.7	16.1	3.8	20.0	20 - 6 20-6		23.3	19.4	8.7.	
	2.	15.6	١ ١)	,	•				19.4	18.3	14.4
∞ d	15.0	15.6	15.6	9	œ	20.0	20.3	0.02	23.3	19.2	7.	
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	15.0		l Kh	17.4			21.7	21.1	,	18.9	١	M
4		M	16.1	•	80 80 80 80 80 80	50.02	-	ζ.	0.77	18.9	17.2	13.3
	14.4	13.9	15.6	~	16.7	- (23.3	22.8	٥	4	r
17	16.4	13.3	45.6	17.2	17.8	20.0	21.1	,	'n	17.8		15.6
	† •		١.	•	18.9	20.0			2.	•	9	1
20	14.4		15.6	16.7	18,3	70.6	21.7 7. 1.7	23,3	19.4	•	ę.v.	75.9
27	4.		16.1	'n	9.02	50.6		25.2		∞ ∞		13.9
12	14.2		16.1	14.2	19.4	•	21.7	۷.	, ,	•		
24	14.4	15.0		7 71	19.4	20.0		~	J	• :1		13.3
C 2			16.1	•		18.3	25.2	M) I	+,	18.3	R. P	
27	13.9	15.6	16.1	15.0		20°6		23.3	21.4			13.9
87 87		15.0	9	٦ .		20.0	21.7	2	,	18.9		M
30	14.4		15.6			9.02		21.9	۲.۲۷	17.8		
1-10 MEANS SAMPLE SIZE	15.00	15.70	16.02	16.22	16.67	19.80	20.90	20.72	23.16	19.70	17.66	14.54
11-20 MEANS SAMPLE SIZE	14.60	13.70	15.63	17.29	18.24 7	20.12	21.68	22.38 6	22_85	18.05 6	16.90	14.34
21-31 MEANS SAMPLE SIZE	14.30	15.42	16.17	14.80	19.44	20.10	21.60	22.72	21.37	17.77	15.26	13.66
MONTHLY MEANS SAMPLE SIZE	14.63	15.11	15.96	16.33	18.05	20.05	21.39	22.02	22.42	18.40	16_49	14.20
MAXIMUM VALUE	15.6	16.1	16.7	17.8	50.6	8.05	22.8	23.3	23.3	21.1	18.3	15.6
MINIMUM VALUE	13.9	13.3	15.6	14.2	15.3	18.3	20.3	20.0	4-61	16.1	14.4	12.8
RANGE	1.7	2.8	1.1	3.6	5.3	2.5	5 + 2	3.3	3.9	5.0	3.9	2 - 8
STANDARD DEV.	07.0	6.92	0.40	1.11	1.48	0.61	N.68	1-14	1.02	1.23	1.15	0.84
ANNUAL MIN	12	2.5		ANNUAL M	MEAN	17.92		ANNUAL	AL MAX	23.	٣	

	BAI	BALBOÁ				TEMPE	EMPERATURE			> -	EAR 1984	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	Jur	AUG	SEP	130	NOV	DEC
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	,,	'n'n	, r	9.0	6 6	, d	00 00	- -	٠, ۲	oc o	oci oc	Š
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- -		'n	, rv	· .	: ~:	. 6	ဂ်လ	٠,٠	- 2	50	٥٠,	ำท
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25	Δ,	M .	ø.	~	6	ċ	Ö,	, سه	÷	80	6.	3
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~ . %	M M	7.71	ďχ	14.4	. .	10°C	e- e	٥, ٥	18.6	∞ 0	16.0	* 1 m
200		1 10	. 6	• •		: 0	- 0	56	, c		ก็เก	'nĸ
30 31	15.0 15.0		16.7		19.8		20.0	18.9		18.6 2.8 3.8	יווי	440
1-10 MEANS SAMPLE SIZE	15.35	15.57	15.37	15,90	16.05	20.03	18_80 10	21.02	21.75	19.08	17.88	15.15
11-20 MEANS SAMPLE SIZE	15.03	14.95	16.38	17,32	17.98	19.70	19.69	22.39	22.55	19.49	16.75	14.08
		! :					ن -					
21-31 MEANS SAMPLE SIZE	14.77	14.31	16.64	16.26	19.84	19.45	20.03	20.60	20.68	18.45	15.95	13.75
MONTHLY MEANS Sample Size	15.04	14.97	16.15	16.49	18_02	19.73	19.52	21.31	21.66	18.99	16.86 30	14.31
MAXIMUM VALUE	16.1	16.1	17.2	18.3	20.5	21.0	21.1	23.3	23.3	20.0	18.6	15.6
MINIMUM VALUE	13.9	13.3	15.0	14.4	14-4	18.0	17.2	18.9	18.6	17.8	15.0	13.0
RANGE	2.2	2.8	2.2	ó. 8	6.1	W. 0	3.9	4-4	4.7	2.2	3.6	5.6
STANDARD DEV.	0.43	0.85	19.0	1.18	1.75	02.0	1.00	1.28	1.19	0.58	0.95	0.87
ANNUAL MIN	13	0.	∢	INNUAL ME	AN	17.75		ANNUA	IL MAX	23.	ĸj	

	8 A	BALBOA				SALI	ALINITY				YEAR 198	7
DAYS	NAC	FEB	MAR	APR	MAY	NOS	JUL	AUG	SEP	OCT	NOV	DEC
γ-	0	4	-4	5.3	3.5	ν.	3.7	3.5	M	3.5	φ. Μ1	33,35
~	M	4.	Ŋ	5.4	3.5	9	K) I	3.6	ς.	۷. ۱	4.6	7.6
~	M	4.	v.	5.6	7 00 1 00	5.6	3.6	4 ° '	ς.κ) \	U V.) W
 	٠, ١	*	4 n	* ^	, v) V) Y	7 . 4	'n	3 . 5	7.5	3.1
Λ ') (4 4	. 4	- M) O	9	34	3.5	M	2	3.5	3.4
	. ~	7	m	5.4	3.4	3.6	0.4	3.7	m.	3.4	3.4	3.4
· &	7	*	m	3.4	3.5	3.6	3.6	3.7	mi I	3.4	3.4	3.3
6	2.	×.	4	3.4	W .	٠. د .	3.6	3.0	٠ ۱	2 v	ار د د	٠ 4 م 7
10	2.5	r.		7.	8	٠, د د	9,0	۷ ۱		4 ~	7 ×	, v
-	2	*	٦, ۱	ν.	2 N	2 K	~ ~ ~ ~	0 Y	o M	4	4 N	3.6
12	4 4	* 4	7 4	, 4	, 10 , 10 , 10	9.0	9.0	3.4	m	3.4	3.2	2.7
7		.5	. 4	3.4	3.6	3.6	3.8	3.6	33.78	3.4	3.3	M. M.
15	<u>ي</u> .	33,34	י ניא	33.41	33.89	33.70	33.57	33.52	χ.	33.45		2. K
16	2.	2.5	4.	2 ×	ار د د	מי מי	٠ ٧	, v	3.5	. 50	3.4	3.2
<i>-</i> - 4	,,,	4 4	1 6	7 7 7 M	י אר	9 9	3.5	3.4	33.59	3.4	3.4	3.4
0 0	9 10	7 M	נית נ	3.4	M	3.9	3.5	3.5		3.5	3.5	3.3
20	2	3.4	٧.	3.1	3.5	3.7	3.9	W 1	9.6	4.4	7.6	M M
21	3.		7.	3.4	3	. 6 . 6	3.5	~ ~ ~	3.0	٠ د د	4 . 4 .	٠ د د
25	2	× .			,	9 4) * () *	U W	א כ	י י י) M	7.6
23	8	2 n	4.	0 P	0.4	0 Y	7 6) W)	3.0) 47 M	3.6	3.4
7 6) N		3.4	4.0	3.6	3.6	3.2	3.8	3.5	3.3	3.2
92	M	3.4	. ~	3.4	3.6	3.5	3.6	3.4	3.6	3.5	W.	3.2
22		3.6	٦,	M	3.7	W.	3.5	W .	3.4	3.5		3.0
28	M	3.5	٦,	W.	3.6	3.7	•	4 14 10 10 11	٠, د د	0 0	0 K	~ ~ ~
62	M	3.4		M	33.62	2 ×	35.45	0 W.	33.57	. 9) W	3.2
310	33.44		33.67	6	0.0	7	, 1) M	•	3.4		3.3
	33.25	33.42	33.44	33.47	33.63	33.61	33.72	33.61	33.63 10	33.49	33.48 10	33 <u>.</u> 35 10
SAMPLE SILE				•								1
11-20 MEANS SAMPLE SIZE	33.29	33.39	33.37	33.42	33.62	33.69	33.67	33.54	33.62	33 .48 10	33,39 10	33.27
21-31 MEANS SAMPLE SIZE	33.31	33.43	33.48	33.49 10	33.68	33.63	33.57	33.54	33.62 10	33,58	33.37	33.26
MONTHLY MEANS	33.29	33.41	33,43	33.46	33.64	33.64	33.66	33.56	33.62 28	33.52	33.41	33,29 31
AVTHUR VA	33.44	33.54	33.67	33.70	34.06	33.98	34.06	33.87	33.80	33.71	33.61	33.50
	0		33, 29	33, 15	33.46	33,50	33.44	33.28	33.49	33.44	33,25	32.74
MINIMUM AVENE			•				. 1	i		•	١	١
RANGE	0.50	0.29	0.38	0.55	0.60	0.48	0.62	65.0	0.31	0.27	0.36	0.70
STANDARD DEV.	0.10	0.07	0.10	0.10	0.13	60-0	0.14	0.13	0.08	0.08	0.10	0.14
	•	1			u	73 50		ANNIA	MAX	75	-06	
ANNUAL MIN	M	2.74		ANNOAL	E E	r.				r)	

	SAN	CLEMEN	TE			TEMPE	MPERATURE			>	EAR 1984	
DAYS	JAN	FEB	MAR	APR	MAY	NO C	JUL	AUG	SEP	100	NOV	DEC
	16.8	٥.	4	•		0	2.		Ψ.	0	ø	
2	٥.	,	'n,	9	.	0.	2		7	0	8	
		9	Š.	ģ.	91	ö	2.		'n.	ö	7	14.7
4 r		٠,	ė.	ċ.	٠,			٠,	m' (oʻ (۲,	4
	16.7	o k	• <	0 . v	٠,	: 0	6.02	, ,	i.	် င	ŀ	
~	•		9		. ~	. 0		23.0	, ,	0	, ,	7
60	14.3	5	16.3	18.0	8	20.0	<u>,</u>		3	6	17.8	4.
<u>ه</u> و		י, ו	'n,	00° 1	∞ 0	င်	20.1	ĸ.	m'ı	6	2	9
5 e		٠.	, v	٠	ຸ້ ວ້ວ		2	M .	m' h	c .	۲.	٥.
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ī K			6.	,		0		21.2	'n	: 0	•	, 4
41	5	٠,	ý,	~ .	٠,		M:	~i	۲.	6	۲,	2
<u>. 1</u>	14.2	16.5	16.2	78.0	× × ×		21.0	22.0	21.8	20.3	16.8	12.0
~	10 (7	5	00	60		W.		2	0	9	2.
œ c	S	, t	9	o, ⊾	c		٠,		m,		9	2.
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21	9		9	Š		6	٠, ٠	20.8	'n	. 6	9	J M
22	9	4	~	5	6	20.5	-)	,)	M
, M	,	ς,	9	٠,	6.0	(21.8		8	9	٠
2 C	16.5 5.5	ر مراجي		٠.	20.4	20.02	· ·	*	22.5	∞.	15.5	٨
92	6.	L in	7.			00)		2		ံဆ	•	12.8
22	· 6	Ś.	2	4	,	00 t		2.	21.5	×.		M
28	'n		٠ د د	• u	<u>ر</u> د	ċ.	20.3	ζ,		oi c		Μ.
30	, 5		٠.		, d		_	v-	20.9 10.7	×α		4 4
31	. 0			•		<u>.</u>	22.5	22.3	:	000		M
1-10 MEANS SAMPLE SIZE	15.47	16.00	15.72	16.94	17.62	20.12	21.26	22.75	22.76 10	20.33 10	17.71	15.27 6
11-20 MEANS SAMPLE SIZE	14.96	15.06 T0	16.10	17.94	19.18	20.47	21.94	22.36	22.84 10	20.06	16.82	13.56 10
21-31 MEANS SAMPLE SIZE	15.70	14.84	17.06 8	15,30	19.98	19.86	21.10	21.94	21.52	18.73	15.82	13.61
MONTHLY MEANS SAMPLE SIZE	15.41	15.33	16.24	16.69	19.00	20.06	21.43	22.29	22.54	19.67	17.03	13.97
MAXIMUM VALUE	16.8	17.0	18.0	19.0	21.0	21.7	23.5	23.5	24.0	20.8	18.3	16.5
MINIMUM VALUE	14.2	13.5	14.8	14.0	16.5	18.5	20.0	20.8	19.7	18.4	15.3	12.0
RANGE	5.6	3.5	3.2	5.0	4.5	3.2	3.5	2.7	4.3	5.4	3.0	4.5
STANDARD DEV.	07.0	0.87	0.75	1.43	1.21	0.80	1.01	0.77	86.0	0.81	0.80	1.13
ANNUAL MIN	12	0	¥	INNUAL ME	AN	18.31		ANNUA	AL MAX	24.1	0	
											,	

	SAN	CLEMEN	E			SALI	ALINITY				YEAR 198	7
DAYS	JAN	FEB	MAR	APR	XAX	NOC	706	AUG	SEP	0CT	NON	DEC
₩.	W 1	κ,	~ ⊔	3.5		3.6	9.6	33.83	33.89	3.5	33.67	33.43
~ m	7	33.37	33.49	33.37			33.65	3.7		3.5	3.5	W W
→ 1.	M	M -	4 4	2.5 7.5	4. K	X X	0 6	- 80 0 M	0 IV	. . .	, KJ	•
n 40	? ~	* *	'n	3.5	3,5	3.7	3.6	3.8	3.6	3.6	W. 1	5.3
~	M	.6	N,	3.4	2.5	3.6	3.6	3. v	9.0	M M	٠. د د	4 K
ac (M, I	*	v, v	~	ູ້ພ	0 E	0 Y	o ac	יאר מאר	יאר האינ	3.4	300
پ پ ٿ	٠ ١	0 M	ن بن	. 4	36	3.6	3.6	3.7	3.6	3.6	3.7	3.2
- -	^	M	٠.	3.3	3.8	4.1	3.6	3.7	3.6	3.6	3.5	
12	71	4.	rJ n	33.36	9.6	9	4 to	۰. « ۳. »	8 ° 6	3.6	٠. د د	33.43
13	4 Y	2 K	ام ن	, W	יי מאר	. 6	3,6	3.6	3.0	3.5	3.5	3.6
<u>.</u> 5	, .v.	4.	. 4	3.5	3.5	2	3.5	3.00	3.	3.5	33.47	3.5
16	×.	3.4	4	3.4	. S	ا ا ا	3.5	3.6	۷ ، ۱ ،	0 · 0	4 n	0 P
17	2.6	× 54	4.	W 4	6 r	ار د م	ر الا الا	3.7	0 9 0 8	4 W	3.4	3.6
£- ¢-	2.5	2 ×	<u>.</u> r	יי מיי	. K.	3.6	3.6	3.7	8	3.6	3.4	3.3
20	יאני נאני		. 4	3,4	3.7	3.6	3.5	3.7	W 1	3.5	W.5	3.2
21	5.3	3.4	4.	5.5	3.6	W . 9 .		א מא	9 4	0 Y	7.0	9 6
22	יניין אין	7.	٠,٠	2 K	٠ د د	~ «	70-60	9 6	9 °	3.5	3.3	3.3
23	, , ,	٠ د د	, .	* ~	7 6) M	•	Š	3.6	3.6	3.3	3.4
25.		3.4	. 3	3.2	3.5	3.6	3.6	0.4	3.6	3.7	3.1	3.5
26	3	M	٦.	3.4	3.6	3.6	3.7	3.7	3.0	3°0	8. 4	7
27	3.	3.4	7.	3.5	9,1	3.5	9°9	5 M	^•	0 M	33,58	7
60 (0	٠, ۱		٦,	7.0	0 K	י מינ) V	7	3.5	3.7	3.3	3.3
29 30 31	33.45 33.45			33.43	33.60	33.69	33.66	33.77	33.49	33.68		33.22 33.36
,		1	·			0	~		~			33,37
1-10 MEANS SAMPLE SIZE	33,33	33.41	33.54	33.50	53.55	10			10	1	1	•
11-20 MEANS SAMPLE SIZE	33.36	33.43	33.47	33.40 10	33.65	33.83	33.65	33.78	33.67	33.59	33.49	33.42 10
~~ ≪	33.40	33.46	33.46	33.44	33.64	33,74 10	33.67	33.79	33.60	33.68	33.37	33 <u>.</u> 35 10
MONTHLY MEANS	33.37	33.43	33.49	33.45	33.62	33.79	33.66	33.80 30	33 . 67 29	33.62	33.50	33.38
AXI WIIM VA		33.60			33.83	34.15	34.04	34.05	34.06	33.76	33.73	33.61
TAITMEN	33,75	33,33	33,39	33.08	33.49	33.59	33.56	33,61	33.49	33.49	33.12	33.17
				ς.		0.56	0.48	0.44	0.57	0.27	0.61	74.0
RANGE	U. S.C	0.2.0		•	•	•	• (, ,	, •		•	
STANDARD DEV.	0.08	20.0	0.08	0.11	0.07	0.15	60-0	0.10	0.12	0.08	0.13	F. 0
ANNUAL MIN	ĸ	3.08		ANNUAL	MEAN	33.56		ANNUAL	UAL MAX	34.	-15	

	SCF	CRIPPS PIE	E R		SURF	ACE TEMPE	EMPERATURE			>-	YEAR 1984	
PA NO PANS	JAN	FEB	MAR	APR	MAY	NOT	JUL	AUG	SEP	OCT	NON	DEC
	3	Š	•	5.		o,	٠,	M	2	-	(X)	5
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1 KJ		. '		, ,				M	2:		· .	• •
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3,5	4	15.3	'n.	17.5	۲,	10.8 20.00	c) c	m <	22.9	00	17.1 16.8	2.
1001 人士 上衛所が	• ·	, v	, ,		٥,	ے ر		• • •	^ <		, S	, , M
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19	•	• 7	'n.	7	0	0	,	4	7.	6	9	W
20	4.	4.	Ŋ,	6.	Ġ.	Ġ.	m	4	4.	6	ò.	4
127	.	4.	v, r	N L	٠,	, (4	m.	'n.	ه ښت	ý,	4.
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2.5	4 ~	٠, ١	9,4	* 4		≓,	٠ د د	· ×	'n,	ວ່.	v, n	ام (ب
67 6	• 7	'nĸ	• <	, ,			i r	* M	١	ċα	ń v	4
30	15.2	•	16.6	Š	19.4	. .	23.8	23.8	· •	30.	ivi	14.1
120			9		6		3.	M.		œ.		7
1-10 MEANS SAMPLE SIZE	15.77	15.63	14.82	16.21 10	17.12 10	20.15	21.91	22.60	23.59	20.48	17.81	15.13
11-20 MEANS	15.05	14.85	15.43	17.15	18,22	20.21	21.64	23.27	23.53	19.93	16.92	13.86 10
21-31 MEANS SAMPLE SIZE	14.85	13.94	16.25	15.27	19-44	21.05 10	22.94	23.56	22.46	18.47	15.60	13.84
MONTHLY MEANS SAMPLE SIZE	15.22	14.84	15,52	16.21	18.30	20.47	22.19	23.16	23.18	19.50	16.78 30	14.26
A V T MITHER V A	, 0	t. ox	7 7 7	17.0	0 00		27.8	7 76	25.0	21 K	ν (15 7
TOTAL FOR TYPE	٠	•	•	•	• :	•	•	•	•	•	•	•
MINIMUM VALUE	14.5	13.5	14.2	14.2	15.8	19.5	19.0	21.5	21.6	18.0	15.1	12.6
RANGE	1.4	2.3	2.4	3.7	4.2	2.4	8 - 7	5.9	3.4	3.6	3.1	6-2
STANDARD DEV.	0.45	0.82	0.70	0.89	1.24	0.62	1.11	0.75	0.85	1.04	1.00	0.78
NI W I WILL	12	•	•	# N N N N N N N N N N N N N N N N N N N	Z	12 31		A S	X X X	(A)	٥	
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	SC	RIPPS PI	E S		SURF	ACE SALINITY	NITY				YEAK 198	7
DAYS	NAC	FEB	MAR	APR	MAY	วถห	10 r	AUG	SEP	OCT	NON	DEC
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-	M	۶.4		5.	×.	. ·	~ r) 1	~ r	0.6		7 " "
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0 0	* *			, ,	, ,		7	3.7	3.6	3.5	3.5	3.4
» C		. ~	. 4	. 10) LC	. ~	3.6	3.7	3.6	3.5	3.5	3.4
- -	7			3	3.5	3.7	3.7	3.7	3.6	3.5	3.5	3.4
12	7			3.5	3,5	3.7	3.6	3.7	3.6	3.6	3.5	3,3
. 4. I W		3.4		3.5	3.5	3.7	3.6	3.7	3.6	3.6	3,5	3.4
14	5.4	3.4	× ×	3.5	3.5	3.7	5.	3.7	 	. S	W 1	3.4
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12	, ~			, W	3 6	, IV	3.6	3.	3.6	3.6	3.4	3.4
2 2	,			, W	3	3.7	3.6	3.7	3.6	3.5	3.4	3.4
2 4 6	7	7		1 10	3 4	3.7	3.7	3.7	3.6	3.5	4.4	3.4
25	3	. M	M	3.5	3.6	3.7	3.7	3.7	5.7	9.6	3.6	3,4
56	3.7	3.	3	3.5	3.7	3.7	3.6	3.7	3.6	3.0	4.4	4 6
27	7. M	33.50	8	5,1	3.7	₩. - -	, 66 1	 	9 Y	7 M	4 ° 6	0 K
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6 2	40 W	'n	'nM	33.50	0 K	33,79	33.71	33.74	33.54	33.54	33.45	33.27
31	33.44		33.57	;	33.70	•	_	3.7		3.5		3.2
1-10 MEANS SAMPLE SIZE	33,40	33.48	33.51	33.54	33.56 10	33.75	33.73 10	33.73	33.67	33.55 10	33.55 10	33.45
11-20 MEANS SAMPLE SIZE	33.44	33.48	33.50	33,53	33.61 10	33.75	33.63 10	33.76	33.65	33 .61	33.51 10	33.45
21-31 MEANS SAMPLE SIZE	33.45	33.49	33.52	33.53	33.67	33.76 10	33.68	33.77	33.64	33.58	33.50	33.35
MONTHLY MEANS	33.43	33.48	33.51	33.53	33.62	33.75	33.68	33.75	33.65	33,58	33.52	33.42
AMPLE 314			- 1					l				
MAXIMUM VALUE	33.48	33.51	33.58	33.56	33.72	33.84	33.76	33.80	33.72	33.65	33.67	33.51
MINIMUM VALUE	33.37	33.44	33.48	33.49	33.54	33.70	33.58	33.67	33.54	33.51	33.43	33.23
RANGE	0.11	10.0	0.10	0.07	0.18	0.14	0.18	0.13	0.18	0.14	0.24	0.28
	-		•	•	(c		70	6	20.0	č
STANDARD DEV.	3.05	0.04	0.04	0.03	0.0	0-04	00.0	2	•	•	•	•
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30 31	15.0		16.6	5.	19.4	∞.	21.3	23.8	7	17.8	Ņ	14.2
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1-10 MEANS SAMPLE SIZE	15.65	15.69	14.76 10	16.27 10	16.74	20.04 10	20.29 10	18.90 10	21.26 9	20.13 10	17.78 10	15.09
11-20 MEANS SAMPLE SIZE	15.22	15.01	15.43	16.98	17.56 10	19_77 10	17.55	21.17	22.56 10	19.25 10	16.57	13.95
21-31 MEANS SAMPLE SIZE	14.87	13.92	16.25	15.14	19.47	20.07	20.30	22.46	21.22	18.25	15.58 10	13.78
- Z	15.24	14.91	15.50	16.13	17.97		19.41	20.90	21.69	19.18	16.64	
LE SIZE	M		M	M	M		M	M	~	M		
MAXIMUM VALUE	16.1	15.9	16.6	17.9	20.02	21.6	22.7	23.9	23.5	21.4	18.4	15.4
MINIMUM VALUE	14.7	13.6	14.2	14.1	15.8	17.7	16.5	15.8	17.7	16.7	15.0	12.6
RANGE	1.4	2.3	2.4	w	4.2	O' .	6.2	8.1	5.8	2-4	3.4	2.8
STANDARD DEV.	0.39	6,85	0.75	16.91	1.38	0.81	1.81	2.28	1.67	1.14	1.04	0.73
ANNUAL MIN	12	9*:	***	ANNUAL ME	MEAN	17.65		ANNUAL	IL MAX	23.	٥	

	SC	RIPPS PI	ER		ROT	ROTTOM SALI	SALINITY				YEAR 198	84
DAYS	NAU	FER	MAR	APR	MAY	JUN	10 F	AUG	SEP	100	NON	DEC
•	M.	3.4	5.4	3.5	3.5	3.6	3.7	3.5	3.5	3.5	3.6	3.4
- 2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.5	3.7	3.5	3.5	3.4
M.	3.3	3.4	3.4	3.5		3.7	3.5	3.6	3.6	3.5	3.5	4. 6
4	3,3	3.4	3.4	3,5	3.5	3.7	3.6	3.6	3.5	3.5	٠, ۱ د د د	۵. ۲.
ĸ	33	3.4	3.4	3.0	W 1	 	3.6	2.0	33.60	3.5	٠. د ، د	۵. 4.
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12	, v.	33.49	. 4	3 12	33,55	33.78	3.5	33.67	33.65	3.5	33.49	3.3
. £	3	3.4	3.4	3.6	3.5	3.7	3,5	3.6	3.6	3.5	3.5	3.4
14	3.4	3.4	3.4	3.4	3.5	3.7	3,5	9	9	3.4	ا ا ا	7.7
15	3.4	3.4	3.4	3.4	3.0	 	W 1	9 4	5°6	5.6	۷ . د د د	٠ ۲ ۷
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~. 00 F	\$ ×	4 ×		, r	1 Y	. V		8	3.6	9) W	3.4
c c		7	. 4) K)	, vo	. N	3.5	3.7	3.5	3	3.4	3.3
20	3.4	3.4	3.4	3.5	3	3	3.5	3.8	3.6	3.6	3.4	3.3
21	3.4	3.4	3.4	3.5	3.6	3.7	3.5	3.7	3.6	3.6	3.4	3.4
22	7.	3.4	3.4	3.4	3.6	3.6	3.5	3.6	3.6	3.0	ω,	3.4
23	3.4	3.4	3.4	3.4	3.5	3.7	3.6	3.6	3.6	3.6	M !	3.4
24	3.4	3.4	3.5	3.4	3.6	3.7	3.6	× .	2 0	5.0	4 4	5.4
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0 0	. 7	, M	. ער ראי) N) W	3.5	3.6	3.7	3	3.6	3.4	3.2
30	33.41	•	33.50		, K	3.6	33.69	3.6	3.4	33.58	3-4	33,28
- ``	,		•		•		•			! !		
1-10 MEANS SAMPLE SIZE	33,38 10	33.46	33.48	33,52	33.54	33.74	33.63	33.64	33.64	33.55	33.57	33.45 10
11-20 MEANS SAMPLE SIZE	33.41	33.45	33.47	33.52 10	33.58	33.77 10	33.58	33 <u>.69</u>	33.63	33.58	33.50 10	33.42
21-31 MEANS SAMPLE SIZE	33,42	33.47	33.49	33.51	33.65	33.70 10	33.63	33.71 10	33.60	33.61	33.44	33,37
MONTHLY MEANS Sample Size	33.40	33.46	33.48	33.52	33.59 30	33.74	33.61	33.68 30	33.62 29	33.58	33.50	33.41
AVT MISM TVA	77 22	33,50	33,56	33.65	33.67	33.89	33.71	33.90	33.75	33.66	33.60	33.50
	,							,				
MINIMUM VALUE	33,34	33.41	33.45	33.47	33.53	33.61	33.55	33.54	33-46	33.46	33.27	33.22
RAMGE	2,10	60.0	0.11	0.18	0.14	0.28	0.16	0.36	0.29	0.20	0.33	0.28
STANDARD DEV.	0.04	0.04	0.04	0.05	90.0	0.07	90-0	60.0	0.07	90"0	80.0	0.07
ANNUAL MIN	M	3.22		ANNUAL	MEAN	33.55		ANNUAL	JAL MAX	33.	-90	