

UNIVERSITY OF CALIFORNIA, SAN DIEGO
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LA JOLLA, CALIFORNIA 92093-0227

SURFACE WATER TEMPERATURES, SALINITIES
AND DENSITIES AT SHORE STATIONS

United States West Coast

1990

*Including five-meter temperatures,
salinities, and densities at Scripps Pier*

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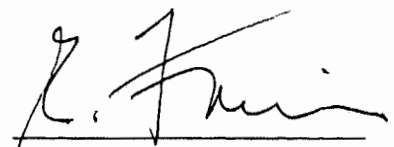
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INTRODUCTION

This report presents temperature and salinity data observed during 1990 at shoreline stations along the United States West Coast from La Jolla, California to the Strait of Juan de Fuca, Washington. The data consist of daily temperature and salinity values when available, with means, ranges and standard deviations based on these observations. Densities have been calculated from the daily temperature and salinity measurements with the 1980 International Equation of State for seawater algorithms (UNESCO, 1981)¹ and are listed in the same format as the temperature and salinity data. The data are also shown in plots, along with a harmonic mean curve calculated from all of the available historical data at each location. Thus, one may quickly visualize how the 1990 data differ from past observations.

Various agencies and individuals volunteer to make daily observations which are sent periodically to the Marine Life Research Group, Scripps Institution of Oceanography (SIO), for the preparation of this data report and to update computer tapes of the historical shore data. The agencies are: National Oceanic and Atmospheric Administration/National Ocean Survey (NOAA/NOS), University of Oregon, University of California, California State University, Stanford University, California Department of Fish and Game, Point Reyes Bird Observatory, Los Angeles County, the cities of Santa Cruz, Santa Barbara, San Clemente, and Newport Beach, California, and the Pacific Gas and Electric Company.

Daily temperature values from four tide gauge stations located at Neah Bay, Washington and Crescent City, Port San Luis and Santa Monica, California are sent to SIO by NOAA/NOS annually. Temperature readings for those localities and Pacific Gas and Electric Company at Morro Bay, California are recorded variously to 0.1°, 0.5°, or 1°F. Charleston, Oregon, Bodega Bay, Pacific Grove, Granite Canyon and Santa Barbara record temperature to the nearest 0.1°C from calibrated standard or electronic digital thermometers. Trinidad and S.E. Farallon Island generally record temperature to 0.1°C from standard immersion thermometers. San Clemente and La Jolla record temperature to 0.1°F from calibrated digital thermometers. Balboa usually reports temperature from a thermistor to the nearest 0.5°F. Santa Cruz records temperature to 0.1°C from a thermistor. Fahrenheit readings have been converted and are reported to the nearest 0.1°C. With the exception of those values reported to the nearest 1°F, the observations are considered accurate to approximately $\pm 0.2^\circ\text{C}$ in most instances. The temperatures are usually reported with little attempt to screen or eliminate observer errors. However, occasional suspect extreme values may be noted with a "U" after the temperature to indicate that the value is believed to be uncertain.

Salinities from Trinidad Beach, Bodega Bay, S.E. Farallon Island, Granite Canyon, Balboa, San Clemente, and Scripps Pier are obtained from analyses of sea water samples collected in special salinity bottles supplied by Scripps. Sea 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 represent freshly upwelled water, or they may be due to faulty sampling techniques or to loosely sealed sample bottles. Salinities less than 30‰ are due to local precipitation or fresh water runoff. All salinities higher than 34.5‰ have been omitted. Visibly contaminated samples or samples known to have been poorly sealed have also been omitted. A few unusual salinities are noted with a "U" after the salinity to indicate that the salinity is believed to be uncertain.

Densities are calculated for each day that has both a temperature and a salinity measurement. To omit repetitive digits, the densities are listed in sigma-t units where $\sigma\text{-t} = (\text{density} - 1.0) \times 1000$. For example, for a density of 1.02451 g/cm³, $\sigma\text{-t} = 24.51$. Because of the high sensitivity of salinometer derived salinities, the computed densities are considered to be more accurate than densities derived from field hydrometer measurements. The densities have not been reduced to a standard temperature (such as 15°C); they have been calculated from the observed values so as to reflect the actual coastal conditions.

¹ UNESCO, 1981. Background papers and supporting data on the International Equation of State 1980. *UNESCO Technical Papers in Marine Science*, No. 37.

Wherever either the temperature or salinity have been flagged as questionable, a "U" will also appear after the sigma-t value.

A few calculations are presented below each month's column of daily observations: one-third month means, monthly means, maximum and minimum values, range, and standard deviation. For those stations with observations for every month of the year, the annual minimum, mean, and maximum are also given. This annual mean has been derived by calculating the mean of the 12 monthly means and differs very slightly from an annual mean calculated by using the individual days of the year. Data flagged with a "U" are not included in any of these computations, nor are they listed as the extremes for the month or year.

The 1990 monthly and annual coastal sea-surface temperature means are summarized on page 8. In order to see how these means differed from "normal," the anomalies from the station's long-term monthly means have been calculated and are shown on the facing page. Listed below each station in this tabulation are the years used in determining the long-term mean for that location. Beginning with this report, the year's daily observations are shown on a parameter-versus-time plot. For convenience, the temperature plot shows a Celsius scale on the left side and a Fahrenheit scale on the right side of the plot. A least squares regression harmonic curve fit to all of the available historical data is also shown on each plot. The curves are composed of annual and semiannual harmonic components following the procedures described by Lynn (1967)² in his study of annual cycles in the California Current.

²Lynn, R. J., 1967. Seasonal variation of temperature and salinity at 10 meters in the California Current. *Calif. Coop. Oceanic Fish. Invest. Rep.*, XI: 157-186.

STATION DESCRIPTIONS

The paragraphs that follow provide information for the stations listed in this report. They are described in geographical order as they occur from south to north.

La Jolla, California 32°52.0'N, 117°15.5'W Scripps Institution of Oceanography,
University of California, San Diego

Personnel from the Scripps Aquarium Museum take daily temperature and salinity samples at the end of the SIO pier each morning. Samples are taken from the surface and from the bottom at a depth of about 5 meters. The SIO pier is quite close to the head of the La Jolla submarine canyon; the proximity of this station to deep water results in data representative of oceanic conditions except during periods of local rain runoff.

San Clemente, California 33°25'N, 117°37'W City of San Clemente

Personnel of the Department of Marine Safety 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.

Balboa, California 33°36'N, 117°54'W City of Newport Beach

The city lifeguards take daily temperature and salinity samples from the Newport Beach pier. 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 runoff from the Santa Ana River mouth located only a mile or so up the beach from the pier.

Santa Monica, California 34°00.5'N, 118°30.0'W NOAA/NOS

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

Point Dume, California 34°01.1'N, 118°49.5'W Los Angeles County

Daily water temperatures are taken in the surf early each morning by the Los Angeles County Lifeguards at Zuma Beach County Park, west of Point Dume.

Santa Barbara, California 34°24.2'N, 119°41.6'W City of Santa Barbara

Personnel of the Waterfront Department take daily water temperatures off their boat dock every morning before the sun heats up the beach and so gives a representative temperature of the coastal water. Temperatures were formerly collected from the harbor master's dock, but the configuration of the harbor changed, so the site was moved to the beach near the breakwater.

Port San Luis, California

35°10.1'N, 120°45.1'W

NOAA/NOS

This tide-gauge station has been located on the old fishing pier in the northwest corner of the harbor since 1972. The previous site was on Avila recreational pier. The present location is less subject to storm damage, particularly from the southeast winter gales. Temperature is also about 0.1°C warmer at the new site.

Morro Bay, California

35°22.2'N, 120°51.6'W

Pacific Gas and Electric Company

The Pacific Gas and Electric Company has a 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 representative of those found in the southern end of Estero Bay.

Granite Canyon, California

36°25.9'N, 121°55'W

Marine Resources Laboratory,
California Department of Fish and Game

Personnel of the Marine Resources Laboratory of the California Department of Fish and Game take daily temperature and salinity samples off the rocks near the water intake for the laboratory. The spring-summer upwelling that is typical of the central California coast is well represented by this station; it is approximately 5 miles south of the old Point Lobos South location.

Pacific Grove, California

36°37.3'N, 121°54.2'W

Hopkins Marine Station,
Stanford University

Hopkins Marine Station 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.

Santa Cruz, California

36°57.5'N, 122°01.0'W

City of Santa Cruz

A buoy-gauge thermistor unit has been installed in the Santa Cruz Municipal Wharf wharfmaster's office with the thermistor located in a protective pipe on a pier piling under the office. Maintenance of this station is carried out by the wharf crew of the City of Santa Cruz.

Farallon Islands, California

37°41.8'N, 122°59.9'W

Point Reyes Bird Observatory

The islands are part of the Farallon Islands National Wildlife Refuge. Personnel stationed on S.E. Farallon, where the Coast Guard lighthouse is located, take daily temperature and salinity samples. Salinity samples are collected in 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 northwesterers.

Bodega Bay, California

38°19.0'N, 123°04.3'W

Bodega Marine Laboratory,
University of California

The Marine Biological Laboratory located at Horseshoe Cove takes daily water temperature and salinity 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.

Trinidad Beach, California

41°03.6'N, 124°08.9'W

and

Trinidad Bay, California

41°03.3'N, 124°08.8'W

Marine Laboratory,
Humboldt State University

Humboldt State University 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. Due to the similarity of the salinities from the coast and the bay, except during periods of large runoff, salinity samples are collected from the beach only.

Crescent City, California

41°44.7'N, 124°11.8'W

NOAA/NOS

This tide gauge station is 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.

Charleston, Oregon

43°20.7'N, 124°19.3'W

Oregon Institute of Marine Biology,
University of Oregon

Daily temperatures are collected at high tide from the OIMB pier in Coos Bay. These are also reported to Oregon State University.

Neah Bay, Washington

48°22.1'N, 124°37.0'W

NOAA/NOS

This tide gauge station is located near Cape Flattery at the entrance to the Strait of Juan de Fuca.

New state parks and new marine laboratories may be able to extend some of our coverage in the future. Many of the agencies and participants are volunteers, people seriously interested in the sea at their doorstep; it is these people to whom we owe the success of this long-range program, and we thank them for their help.

1990 COASTAL SEA-SURFACE TEMPERATURE
MONTHLY AND YEARLY MEANS

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
La Jolla	14.96	13.82	14.42	16.72	18.50	18.85	21.97	22.16	20.62	19.92	17.24	15.39	17.88
San Clemente	15.22	13.81	14.51	17.32	18.51	19.59	22.85	21.44	20.88	19.96	17.71	15.08	18.07
Balboa	15.13	13.75	13.79	15.96	17.50	18.69	19.85	18.76	19.97	18.69	17.52	14.39	17.00
Santa Monica	15.06	13.49	14.13	16.15	18.13	19.95	22.06	21.29	21.77	20.09	17.41	14.86	17.87
Point Dume	14.30	12.72	12.53	13.81	14.75	17.19	19.94	18.49	20.00	19.81	17.89	15.43	16.40
Santa Barbara	14.46	12.52	13.86	15.71	15.46	17.54	18.60	18.62	19.67	18.64	16.45	14.28	16.32
Port San Luis	12.54	10.85	11.29	12.37	11.86	12.10	14.64	15.88	15.26	15.23	13.89	12.15	13.17
Morro Bay	12.26	11.29	11.55	13.02	12.68	12.82	14.90	16.58	14.66	15.32	13.45	11.10	13.30
Granite Canyon	12.45	10.63	10.50	11.01	10.96	10.36	12.03	13.68	12.46	12.45	12.67	12.40	11.80
Pacific Grove	12.35	10.93	11.60	12.77	12.60	13.03	13.56	15.37	14.58	13.49	12.59	11.45	12.86
Santa Cruz	12.65	11.24	12.08	13.13	13.37	14.15	15.07	16.17	15.94	14.76	12.91	11.92	13.62
Farallon Islands	12.16	10.78	10.72	10.31	10.06	10.75	12.61	14.27	14.51	12.68	11.94	10.93	11.81
Bodega Bay	11.13	9.96	9.92	10.86	10.63	11.20	12.48	13.93	12.69	12.49	10.93	9.92	11.35
Trinidad Beach	11.01	9.76	10.88	11.32	10.90	12.88	13.79	13.45	14.50	10.86	11.22	9.62	11.68
Crescent City	10.85	9.86	11.53	12.59	12.01	14.95	16.78	16.53	17.43	12.29	11.48	9.75	13.00
Charleston	9.97	9.26	10.08	11.02	11.77	13.31	13.56	12.90	13.47	11.30	11.91	9.96	11.54
Neah Bay	8.38	7.34	8.65	9.98	11.29	13.44	13.31	13.40	13.65	10.55	10.93	7.83	10.73

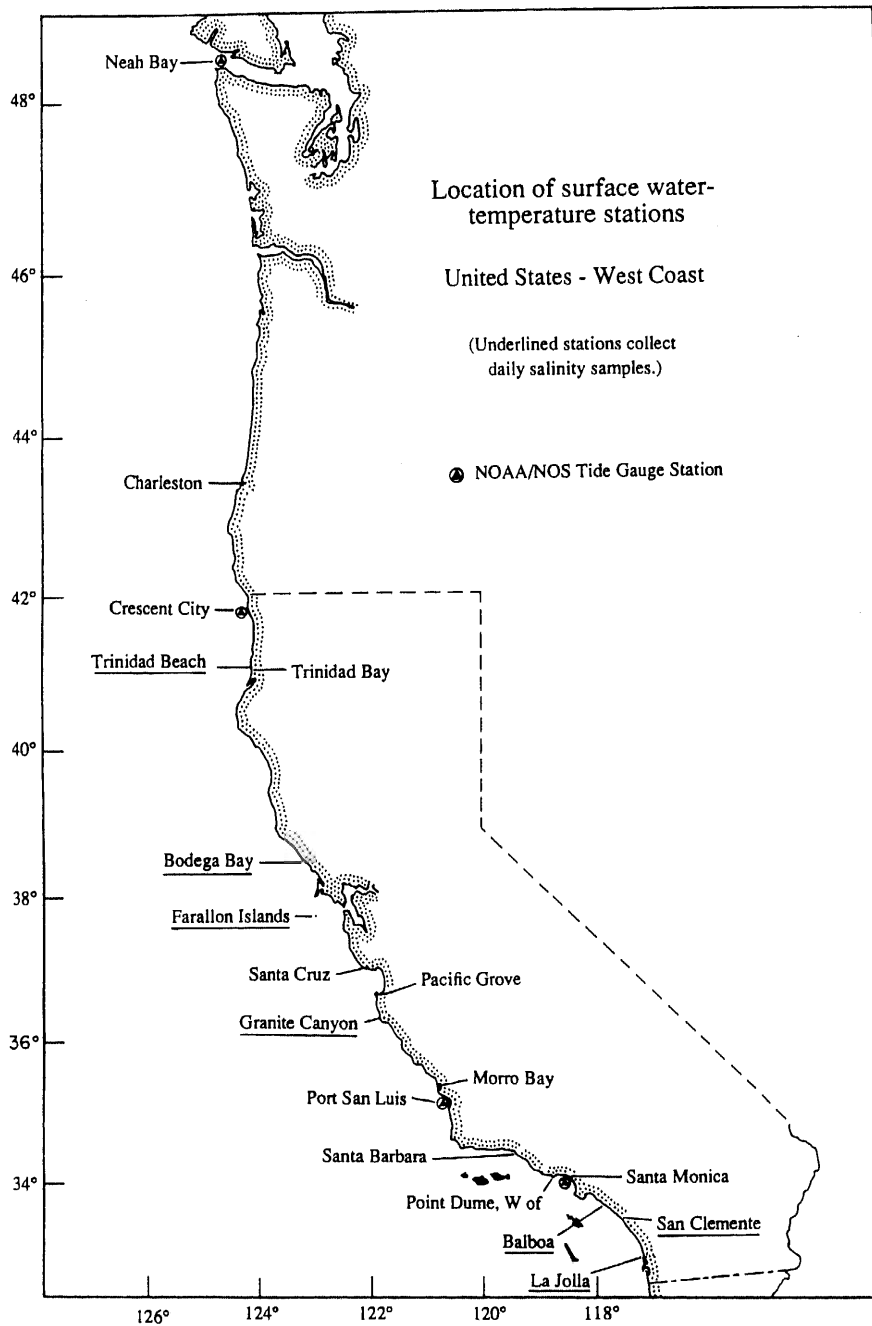
1990 COASTAL SEA-SURFACE TEMPERATURE

MONTHLY AND YEARLY ANOMALIES

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
La Jolla 1916-90	0.88	-0.20	-0.10	1.24	1.52	0.43	2.03	1.40	1.17	1.86	0.94	0.50	0.96
San Clemente* 1955-90	1.35	-0.29	0.12	1.88	1.89	1.61	3.54	1.51	1.59	1.66	1.40	0.55	1.43
Balboa 1925-90	1.04	-0.29	-0.53	0.92	1.31	1.09	1.20	-0.49	1.38	0.82	1.22	-0.58	0.58
Santa Monica 1946-90	1.32	-0.41	-0.10	1.14	2.08	2.18	2.68	1.29	2.40	2.15	1.46	0.41	1.40
Point Dume 1957-90	0.32	-1.03	-1.31	-0.42	-0.01	0.99	2.45	-0.01	1.84	2.34	1.80	0.76	0.63
Santa Barbara 1955-90	0.96	-1.22	-0.15	1.18	0.07	0.69	1.03	0.40	1.35	1.05	0.70	0.20	0.54
Port San Luis* 1945-90	-0.09	-1.77	-1.05	-0.05	-0.99	-1.78	-0.65	0.07	-0.42	0.16	0.03	-0.69	-0.60
Morro Bay 1962-90	-0.14	-1.15	-0.68	0.76	-0.03	-0.80	0.54	1.68	0.05	1.09	-0.09	-1.68	(-0.04)
Granite Canyon 1971-90	0.06	-1.41	-0.72	0.52	0.69	-0.47	0.47	1.05	-0.46	-0.57	-0.14	-0.18	(-0.15)
Pacific Grove 1919-90	0.45	-1.14	-0.68	0.30	-0.14	-0.41	-0.34	1.25	0.23	-0.37	-0.37	-0.91	-0.18
Santa Cruz 1955-71, 80-90	0.77	-0.89	-0.23	0.69	0.39	0.28	0.23	0.77	0.64	0.26	-0.22	-0.29	(0.16)
Farallon Islands 1925-43, 55-90	0.33	-1.03	-0.92	-0.96	-1.20	-0.91	0.39	1.29	0.89	-0.84	-0.94	-1.30	-0.38
Bodega Bay 1957-90	0.05	-1.26	-0.96	0.54	0.54	0.39	1.03	1.73	0.04	-0.17	-1.41	-1.61	-0.05
Trinidad Beach 1975-90	0.17	-0.95	-0.25	0.50	-0.01	1.35	1.54	0.91	1.91	-1.45	-0.66	-1.57	(0.24)
Crescent City 1933-90	0.93	-0.31	1.02	1.68	0.34	2.26	2.98	1.97	3.64	-0.22	-0.08	-0.60	1.11
Charleston 1966-90	0.13	-0.66	-0.32	0.24	0.26	1.04	1.07	0.65	1.00	-0.27	0.48	-0.39	(0.34)
Neah Bay 1935-90	1.04	-0.05	0.53	0.74	0.67	1.86	1.50	1.76	2.22	-0.07	1.43	-0.36	0.96

* Recent data combined with older nearby records for historical means.

() Historical mean of less than 30 years.

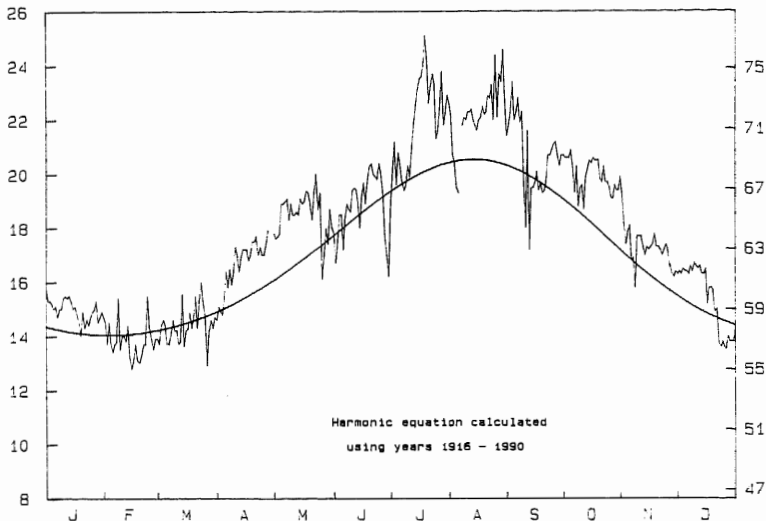


SIO (surface), LaJolla, CA.

Degrees
Centigrade

1990

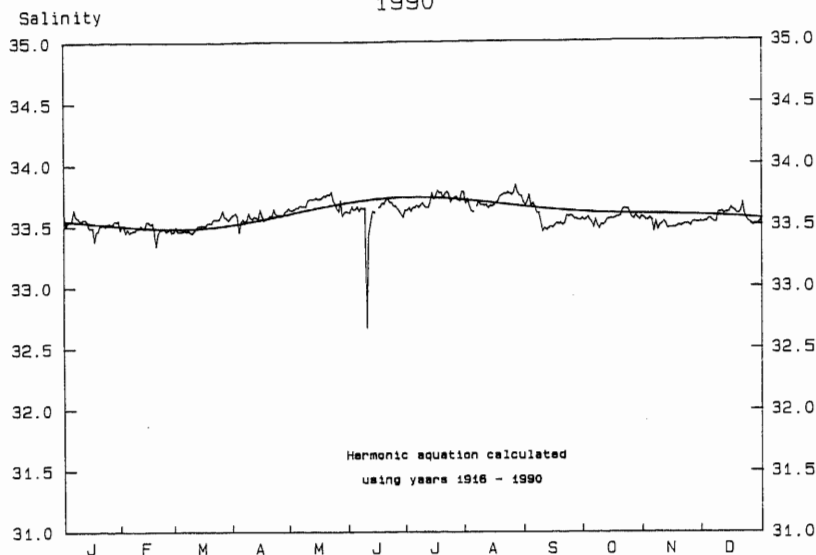
Degrees
Fahrenheit



DAYS	SCRIPPS PIER												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	15.7	14.5	13.7	15.1	17.6	16.7	20.0	22.1	21.8	20.6	19.3	16.4	
2	15.3	13.7	14.4	14.9	17.7	17.5	21.2	20.7	22.3	20.6	18.2	16.3	
3	15.3	14.5	14.6	14.8	17.8	18.5	19.6	20.4	23.4	20.6	17.4	16.5	
4	15.2	13.7	14.4	15.4	18.9	18.5	20.8	19.5	22.0	20.9	17.9	16.4	
5	15.0	13.4	13.7	16.4	18.9	17.2	20.3	19.3	22.3	20.3	18.1	16.4	
6	15.1	13.7	13.7	15.8	19.0	18.4	19.7		22.8	19.3	16.8	16.2	
7	14.7	13.8	14.1	16.5	19.1	18.9	19.4	21.8	21.9	20.3	16.9	16.6	
8	15.0	15.4	14.6	15.9	18.3	18.7	19.6	22.1	22.3	18.8	15.8	16.4	
9	15.0	13.5	14.2	16.4	18.9	18.6	20.3	22.0	19.7	19.5	17.7	16.7	
10	15.4	14.0	14.2	17.3	18.4	19.4	19.9	22.3	18.0	19.6	17.7	16.6	
11	15.5	14.0	13.7	17.0	18.5	19.5	20.9	22.3	21.6	17.9	17.7	16.5	
12	15.4	13.8	13.8	16.4	18.6	19.4	21.8	22.4	17.2	19.9	17.3	16.6	
13	15.5	14.4	15.6	16.9	18.5	18.9	22.5	22.0	19.5	20.2	17.0	16.3	
14	15.3	13.2	13.6	17.2	19.1	18.0	20.5	23.1	18.8	19.5	17.3	16.3	
15	15.0	12.8	14.2	17.2	18.9	19.2	23.3	21.6	19.7	20.4	17.2	16.5	
16	15.1	13.1	14.3	17.2	19.0	19.7	23.6	22.0	20.1	20.6	17.3	16.2	
17	14.8	13.7	14.9	16.8	19.4	18.9	24.0	22.1	19.4	20.5	17.4	16.8	
18	14.5	13.1	14.3	17.0	19.3	19.8	25.1	22.5	19.7	20.5	17.8	16.8	
19	14.0	13.0	14.7	17.5	18.9	20.3	24.3	22.2	19.3	20.5	17.3	16.5	
20	14.9	13.3	15.5	17.5	18.3	20.4	22.6	22.3	19.4	19.8	17.3	14.9	
21	14.3	13.7	14.3	17.7	19.3	20.0	23.3	22.9	19.7	19.7	17.2	15.2	
22	14.6	13.7	15.3	17.0	20.0	19.9	23.7	22.8	20.7	20.3	17.0	13.7	
23	14.4	15.5	16.0	17.3	18.7	19.8	23.3	23.3	20.7	19.7	17.2	13.6	
24	14.7	14.3	15.2	17.0	19.3	20.4	23.3	22.0	20.9	19.7	17.4	13.8	
25	14.9	13.9	14.7	17.0	16.1	20.0	21.6	24.4	21.1	19.5	17.2	13.6	
26	15.0	13.5	12.9	17.4	17.0	19.3	22.4	22.1	21.2	19.1	16.6	13.5	
27	15.3	13.9	14.2	17.9	18.0	17.7	23.8	21.7	20.7	19.1	16.2	14.0	
28	14.5	13.9	14.6		17.4	17.0	21.8	23.4	20.3	19.6	16.2	13.8	
29	14.7		14.3		18.7	16.2	22.3	24.6	20.7	19.4	16.4	13.8	
30	14.9		14.7	17.8	18.0	18.8	22.9	22.9	20.7	19.4	16.3	13.8	
31	14.7		14.6		17.8		22.6	21.4		19.9		14.3	
1-10 MEANS	15.17	14.02	14.16	15.85	18.47	18.24	20.08	21.13	21.65	20.05	17.58	16.46	
SAMPLE SIZE	10	10	10	10	10	10	10	9	10	10	10	10	
11-20 MEANS	15.00	13.44	14.46	17.07	18.85	19.41	23.14	22.12	19.54	20.16	17.36	15.96	
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	
21-31 MEANS	14.73	14.05	14.62	17.39	18.21	18.91	22.64	23.05	20.67	19.58	16.78	13.90	
SAMPLE SIZE	11	8	11	8	11	10	11	11	10	11	10	11	
MONTHLY MEANS	14.96	13.82	14.42	16.73	18.50	18.85	21.97	22.16	20.62	19.92	17.24	15.39	
SAMPLE SIZE	31	28	31	28	31	30	31	30	30	31	30	31	
MAXIMUM VALUE	15.7	15.5	16.0	17.9	20.0	20.4	25.1	24.6	23.4	20.9	19.3	16.7	
MINIMUM VALUE	14.0	12.8	12.9	14.8	16.1	16.2	19.4	19.3	17.2	18.7	15.8	13.5	
RANGE	1.7	2.7	3.1	3.1	3.9	4.2	5.7	5.3	6.2	2.2	3.5	3.2	
STANDARD DEV.	0.39	0.63	0.65	0.87	0.80	1.13	1.61	1.17	1.40	0.60	0.69	1.21	
ANNUAL MIN	12.8			ANNUAL MEAN			17.88			ANNUAL MAX			25.1

SIO (surface), LaJolla, CA.

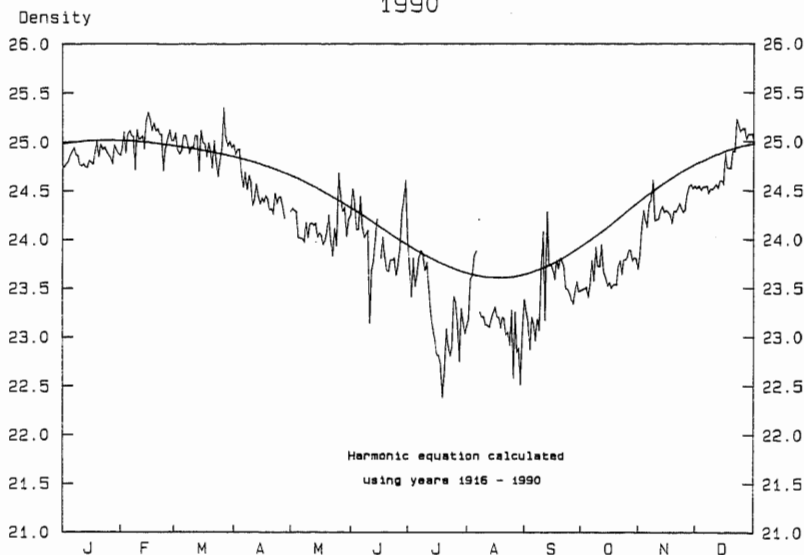
1990



DAYS	SCRIPPS PIER				SURFACE SALINITY				YEAR 1990				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	33.60	33.51	33.50	33.60	33.63	33.61	33.63	33.68	33.66	33.54	33.56	33.52	
2	33.50	33.51	33.46	33.61	33.63	33.65	33.65	33.72	33.70	33.55	33.54	33.53	
3	33.54	33.45	33.46	33.58	33.64	33.63	33.62	33.66	33.75	33.57	33.54	33.53	
4	33.54	33.48	33.46	33.45	33.65	33.64	33.65	33.62	33.66	33.54	33.56	33.55	
5	33.56	33.45	33.47	33.54	33.65	33.66	33.65	33.61	33.68	33.52	33.54	33.55	
6	33.64	33.46	33.47	33.56	33.67	33.62	33.67			33.48	33.45	33.53	
7	33.58	33.47	33.46	33.54	33.66	33.65	33.65	33.64	33.60	33.55	33.53	33.52	
8	33.57	33.47	33.47	33.55	33.66	33.64	33.67	33.70	33.60	33.50	33.46	33.52	
9	33.55	33.49	33.45	33.61	33.66	33.65	33.69	33.67	33.53	33.47	33.50	33.60	
10	33.55	33.49	33.45	33.57	33.71	32.67	33.66	33.67	33.45	33.51	33.51	33.60	
11	33.56	33.51	33.47	33.56	33.72	33.44	33.65	33.66	33.48	33.50	33.53	33.61	
12	33.56	33.49	33.49	33.58	33.72	33.52	33.65	33.67	33.46	33.52	33.51	33.59	
13	33.54	33.48	33.51	33.57	33.72	33.62	33.69	33.64	33.48	33.55	33.47	33.60	
14	33.49	33.54	33.51	33.56	33.73	33.61	33.77	33.66	33.49	33.55	33.48	33.60	
15	33.49	33.54	33.51	33.64	33.72		33.72	33.66	33.48	33.56	33.48	33.61	
16	33.49	33.52	33.51	33.59	33.72	33.65	33.74	33.67	33.50	33.55	33.48	33.64	
17	33.38	33.53	33.51	33.55	33.73	33.66	33.79	33.69	33.52	33.56	33.48	33.62	
18	33.46	33.47	33.53	33.56	33.75	33.69	33.77	33.70	33.51	33.57	33.49	33.61	
19	33.47	33.54	33.53	33.57	33.74	33.68	33.77	33.74	33.52	33.57	33.50	33.59	
20	33.51	33.45	33.53	33.59	33.76	33.71	33.73	33.75	33.50	33.58	33.49	33.59	
21	33.51	33.48	33.56	33.58	33.75	33.73	33.76	33.76	33.52	33.62	33.50	33.61	
22	33.52	33.48	33.56	33.64	33.78	33.69	33.78	33.76	33.58	33.64	33.51	33.59	
23	33.50	33.49	33.56	33.60	33.71	33.69	33.76	33.77	33.57	33.63	33.51	33.58	
24	33.52	33.46	33.56	33.59	33.68	33.64	33.69	33.76	33.58	33.63	33.51	33.54	
25	33.53	33.47	33.59	33.59	33.64	33.66	33.72	33.75	33.57	33.60	33.49	33.52	
26	33.52	33.49	33.63	33.59	33.62	33.64	33.73	33.77	33.55	33.58	33.52	33.51	
27	33.52	33.45	33.58	33.59	33.71	33.62	33.74	33.83	33.55	33.55	33.53	33.49	
28	33.55	33.46	33.57	33.62	33.58	33.59	33.71	33.77	33.54	33.58	33.52	33.51	
29	33.54		33.55	33.63	33.61	33.57	33.70	33.74	33.54	33.56	33.52	33.50	
30	33.55		33.57	33.65	33.62	33.63	33.76	33.74	33.56	33.54	33.53	33.52	
31	33.47		33.59	33.61			33.77	33.69		33.57		33.55	
1-10 MEANS	33.56	33.48	33.47	33.56	33.66	33.54	33.65	33.67	33.63	33.52	33.52	33.55	
SAMPLE SIZE	10	10	10	10	10	10	10	9	10	10	10	10	
11-20 MEANS	33.50	33.49	33.51	33.58	33.73	33.62	33.73	33.68	33.49	33.55	33.49	33.61	
SAMPLE SIZE	10	10	10	10	10	9	10	10	10	10	10	10	
21-31 MEANS	33.52	33.47	33.57	33.61	33.66	33.65	33.74	33.76	33.56	33.59	33.51	33.55	
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11	
MONTHLY MEANS	33.53	33.48	33.52	33.58	33.68	33.60	33.71	33.71	33.56	33.56	33.51	33.57	
SAMPLE SIZE	31	28	31	30	31	29	31	30	30	31	30	31	
MAXIMUM VALUE	33.64	33.54	33.63	33.65	33.78	33.73	33.79	33.83	33.75	33.64	33.56	33.68	
MINIMUM VALUE	33.38	33.34	33.45	33.45	33.58	32.67	33.62	33.61	33.45	33.47	33.45	33.49	
RANGE	0.26	0.20	0.18	0.20	0.20	1.06	0.17	0.22	0.30	0.17	0.11	0.19	
STANDARD DEV.	0.05	0.04	0.05	0.04	0.05	0.19	0.05	0.05	0.07	0.04	0.02	0.05	
ANNUAL MIN	32.67			ANNUAL MEAN				33.58		ANNUAL MAX			33.63

SIO (surface), LaJolla, CA.

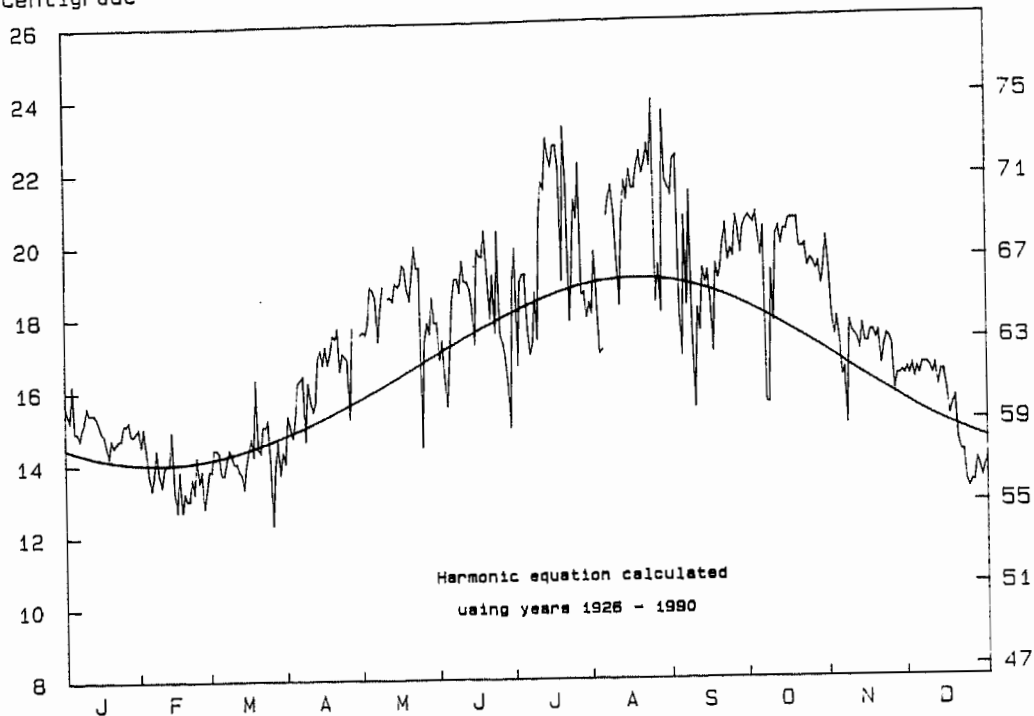
1990



DAYS	SCRIPPS PIER				SURFACE		SIGMA T		YEAR 1990			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24.74	24.93	25.09	24.87	24.32	24.52	23.72	23.19	23.24	23.49	23.85	24.52
2	24.75	25.10	24.91	24.92	24.30	24.37	23.41	23.60	23.15	23.50	24.11	24.35
3	24.78	24.89	24.87	24.92	24.28	24.10	23.81	23.64	22.87	23.51	24.30	24.30
4	24.80	25.08	24.91	24.69	24.02	24.11	23.52	23.84	23.20	23.41	24.19	24.34
5	24.86	25.11	25.07	24.53	24.02	24.44	23.45	23.88	23.13	23.54	24.13	24.34
6	24.90	25.06	25.07	24.69	24.01	24.12	23.83	23.97	22.97	23.78	24.37	24.55
7	24.94	25.05	24.98	24.51	23.97	24.02	23.89	23.26	23.18	23.58	24.41	24.47
8	24.87	24.71	24.88	24.66	24.17	24.06	23.85	23.20	23.07	23.93	24.61	24.32
9	24.85	25.12	24.95	24.59	24.02	24.09	23.69	23.21	23.72	23.75	24.20	24.51
10	24.77	25.02	24.95	24.35	24.16	22.14	23.77	23.13	24.09	23.73	24.21	24.53
11	24.75	25.04	25.07	24.41	24.17	23.70	23.49	23.12	23.18	23.95	24.22	24.37
12	24.78	25.04	25.06	24.37	24.14	23.79	23.25	23.10	24.29	23.86	24.30	24.33
13	24.74	24.35	24.69	24.44	24.17	23.89	23.08	23.59	23.73	23.60	24.14	24.60
14	24.74	25.22	25.12	24.36	24.03	24.21	22.97	23.26	23.74	23.53	24.28	24.60
15	24.81	25.30	24.99	24.42	24.07	24.82	23.31	23.68	23.36	24.30	24.37	24.37
16	24.79	25.23	24.97	24.39	24.04	23.81	22.81	23.21	23.59	23.50	24.28	24.88
17	24.77	25.11	24.85	24.45	23.95	24.02	22.73	23.20	23.79	23.53	24.25	24.73
18	24.89	25.19	24.99	24.41	23.99	23.82	22.38	23.09	23.70	23.54	24.17	24.72
19	25.01	25.11	24.90	24.30	24.08	23.68	22.62	23.21	23.82	23.54	24.29	24.73
20	24.85	25.13	24.73	24.31	24.25	23.67	23.09	23.19	23.77	23.73	24.29	24.91
21	24.97	25.08	25.01	24.26	23.99	23.79	22.91	23.02	23.71	23.79	24.32	24.90
22	24.92	25.08	24.80	24.47	23.83	23.79	22.81	23.05	23.50	23.65	24.37	25.23
23	24.94	24.70	24.64	24.37	24.11	23.82	22.91	22.92	23.49	23.80	24.32	25.17
24	24.90	24.84	24.82	24.43	23.94	23.64	23.42	23.28	23.44	23.80	24.28	25.10
25	24.86	25.03	24.95	24.43	24.68	23.74	23.36	22.58	23.38	23.83	24.31	25.13
26	24.85	25.12	25.35	24.34	24.46	23.91	23.14	23.26	23.34	23.90	24.47	25.14
27	24.77	25.01	25.05	24.22	24.29	24.29	22.75	22.85	23.47	23.89	24.55	25.02
28	24.96	25.02	24.96	24.46	24.33	24.40	23.29	22.89	23.57	23.78	24.56	25.08
29	24.88	25.00	24.90	24.46	24.04	24.60	23.15	22.51	23.46	23.82	24.52	25.07
30	24.88	24.94	24.94	24.29	24.22	24.03	23.04	23.01	23.48	23.80	24.55	25.09
31	24.86	24.97	24.97	24.26	24.26	24.03	23.12	23.39	23.70	23.70	24.55	25.00
1-10 MEANS	24.83	25.01	24.97	24.67	24.13	24.10	23.71	23.44	23.26	23.62	24.24	24.52
SAMPLE SIZE	10	10	10	10	10	10	10	9	10	10	10	10
11-20 MEANS	24.81	25.13	24.94	24.41	24.09	23.86	22.92	23.19	23.73	23.61	24.27	24.68
SAMPLE SIZE	10	10	10	10	10	9	10	10	10	10	10	10
21-31 MEANS	24.89	25.00	24.95	24.35	24.19	24.00	23.08	22.98	23.48	23.80	24.43	25.08
SAMPLE SIZE	11	8	11	8	11	10	11	11	10	11	10	11
MONTHLY MEANS	24.84	25.05	24.95	24.49	24.14	23.99	23.23	23.19	23.49	23.68	24.31	24.77
SAMPLE SIZE	31	28	31	28	31	29	31	30	30	31	30	31
MAXIMUM VALUE	25.01	25.30	25.35	24.92	24.68	24.60	23.89	23.88	24.29	23.95	24.61	25.23
MINIMUM VALUE	24.74	24.70	24.64	24.22	23.83	23.14	22.38	22.51	22.87	23.41	23.85	24.47
RANGE	0.27	0.60	0.71	0.70	0.85	1.46	1.51	1.37	1.41	0.54	0.76	0.76
STANDARD DEV.	0.08	0.14	0.14	0.19	0.17	0.32	0.41	0.30	0.32	0.15	0.16	0.26
ANNUAL MIN	22.38				ANNUAL MEAN		24.18		ANNUAL MAX		25.35	

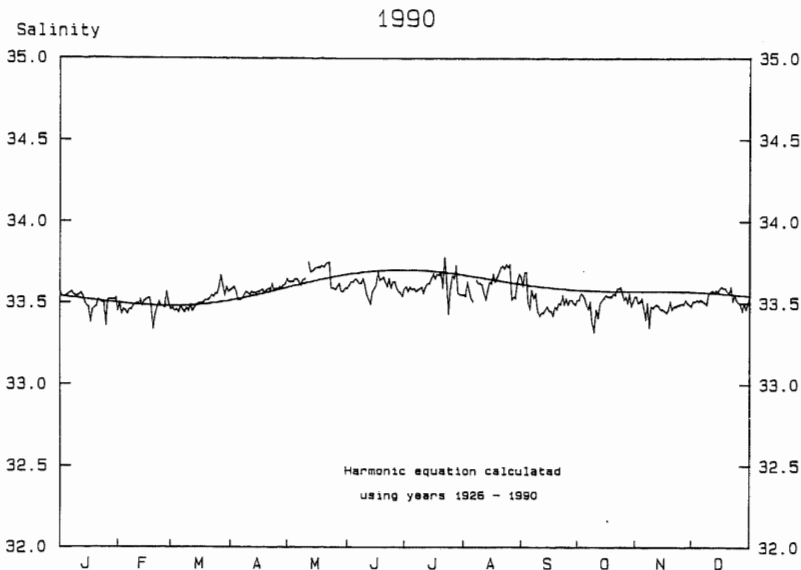
SIO (bottom), LaJolla, CA.

Degrees Centigrade
1990
Degrees Fahrenheit



DAYS	SCRIPPS PIER											
	BOTTOM TEMPERATURE											
	YEAR 1990											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.6	14.5	13.8	15.3	17.6	16.8	19.8	18.0	21.2	20.6	19.2	16.4
2	15.4	15.0	14.4	15.0	17.5	17.3	16.6	19.7	22.2	20.5	17.9	16.2
3	15.2	14.4	14.4	14.7	17.8	16.3	18.9	18.5	22.3	20.4	17.3	16.5
4	16.2	13.7	14.3	15.2	18.8	15.5	19.1	16.9	18.0	20.7	17.8	16.1
5	14.9	13.3	13.7	16.2	18.7	16.9	19.1	17.0	16.8	20.1	17.2	16.4
6	14.9	13.7	13.7	16.3	18.5	18.4	17.6	16.9	20.7	18.2	16.4	16.5
7	14.7	14.4	14.1	16.4	17.3	19.0	17.2	21.2	21.3	15.5	14.9	16.5
8	15.0	13.7	14.4	14.6	18.2	19.0	17.2	21.2	17.3	15.5	14.9	16.5
9	15.2	13.4	14.2	16.2	18.8	18.6	18.6	21.5	17.3	15.5	17.7	16.5
10	15.6	13.9	14.0	15.7	19.5	17.3	20.8	15.4	19.1	17.4	16.4	16.4
11	15.4	14.0	14.0	15.4	18.5	18.9	20.7	19.5	18.1	17.7	17.3	16.2
12	15.4	14.0	13.8	15.7	18.5	18.9	21.6	18.2	17.5	20.1	17.2	16.5
13	15.4	14.9	13.7	16.9	18.4	18.7	21.4	20.5	19.2	20.3	16.9	15.9
14	15.3	13.2	13.3	17.1	18.9	18.2	22.8	21.6	18.8	19.8	17.6	16.3
15	15.1	12.7	14.0	16.7	18.8	17.2	22.3	21.1	19.1	20.2	17.1	16.3
16	14.9	13.8	14.4	17.2	18.9	19.8	22.0	21.9	18.3	20.2	17.1	15.8
17	14.8	12.7	14.7	16.7	19.4	19.6	22.6	21.4	16.9	20.5	17.4	15.1
18	14.5	13.2	14.2	17.0	19.3	19.6	22.6	21.4	19.3	20.5	17.4	15.4
19	14.2	13.0	16.3	17.5	18.7	20.3	22.0	22.0	18.9	20.5	17.2	15.6
20	14.7	13.0	14.4	17.4	18.4	19.2	18.9	22.4	19.2	20.5	17.4	14.4
21	14.5	13.6	14.3	17.7	19.1	17.9	23.1	21.8	19.9	19.7	16.5	14.1
22	14.6	13.2	15.0	16.5	19.9	19.1	21.5	22.1	20.4	19.7	17.0	14.1
23	14.7	14.2	15.0	17.0	19.3	17.5	17.8	22.6	19.4	19.8	17.3	13.3
24	14.7	13.5	15.2	16.9	19.3	20.3	19.1	22.0	19.7	19.2	17.2	13.1
25	15.1	13.8	14.0	16.8	14.4	17.4	21.1	23.8	19.5	19.4	17.0	13.3
26	15.1	12.8	12.3	15.2	17.3	17.2	20.6	18.3	20.6	19.3	15.8	13.3
27	15.2	13.3	13.9	17.7	17.8	16.8	22.1	19.3	20.2	19.1	16.2	13.9
28	14.8	13.8	14.6	17.5	17.5	16.1	18.5	18.0	19.6	19.3	16.2	13.7
29	14.8	13.7	13.7	18.5	14.9	14.9	18.6	23.5	20.3	18.7	16.3	13.4
30	14.9	14.3	14.3	17.5	17.8	18.9	17.9	21.6	20.5	19.2	16.2	13.7
31	15.0	14.0	14.0	17.8	17.8	18.3	18.3	21.4	20.0	20.0	16.2	13.9
1-10 MEANS	15.27	14.00	14.10	15.56	18.13	17.73	18.11	19.37	19.33	19.22	17.20	16.37
SAMPLE SIZE	10	10	10	10	10	10	10	9	10	10	10	10
11-20 MEANS	14.97	13.45	14.28	16.76	18.78	19.04	21.69	21.00	18.53	20.03	17.26	15.75
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	14.85	13.53	14.21	16.91	18.06	17.61	19.87	21.31	20.01	19.40	16.57	13.62
SAMPLE SIZE	11	8	11	8	11	10	11	11	10	11	10	11
MONTHLY MEANS	15.03	13.67	14.20	16.38	18.32	18.13	19.89	20.62	19.29	19.55	17.01	15.19
SAMPLE SIZE	31	28	31	28	30	30	31	30	30	31	30	31
MAXIMUM VALUE	16.2	15.0	16.3	17.7	19.9	20.3	23.1	23.8	22.3	20.7	19.2	16.5
MINIMUM VALUE	14.2	12.7	12.3	14.6	14.4	14.9	16.6	16.9	15.4	15.5	14.9	13.1
RANGE	2.0	2.3	4.0	3.1	5.5	5.4	6.5	6.9	6.9	5.2	4.3	3.4
STANDARD DEV.	0.40	0.62	0.67	0.94	1.01	1.41	2.02	1.86	1.60	1.27	0.78	1.28
ANNUAL MIN	12.3											
ANNUAL MEAN						17.27						
ANNUAL MAX											23.8	

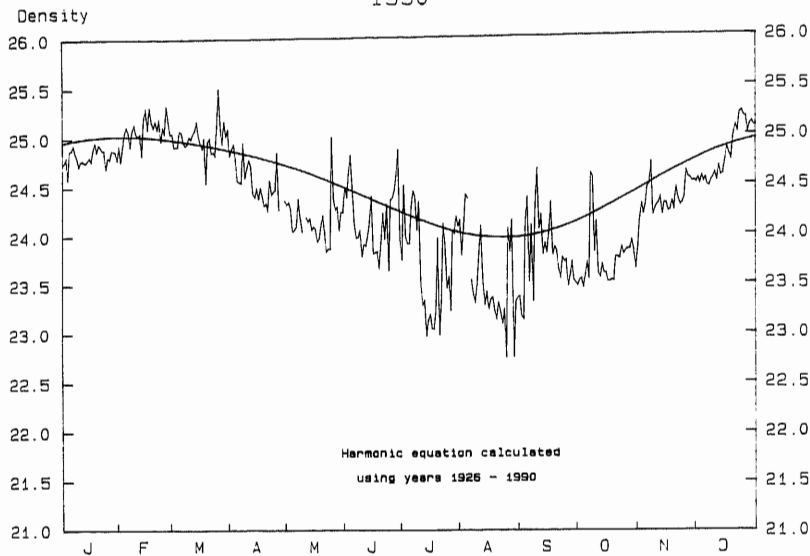
SIO (bottom), LaJolla, CA.



DAYS	SCRIPPS PIER											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.57	33.50	33.47	33.59	33.63	33.61	33.60	33.54	33.60	33.52	33.54	33.51
2	33.54	33.43	33.45	33.60	33.63	33.63	33.57	33.63	33.69	33.56	33.50	33.51
3	33.54	33.46	33.46	33.57	33.63	33.63	33.60	33.58	33.69	33.55	33.51	33.52
4	33.54	33.45	33.44	33.52	33.65	33.65	33.58	33.53	33.50	33.53	33.53	33.51
5	33.55	33.43	33.48	33.52	33.65	33.64	33.59	33.51	33.46	33.49	33.47	33.52
6	33.56	33.46	33.46	33.53	33.63	33.62	33.57	33.51	33.58	33.46	33.40	33.51
7	33.57	33.46	33.44	33.55	33.61	33.62	33.58	33.64	33.53	33.51	33.50	33.50
8	33.55	33.48	33.47	33.57	33.64	33.65	33.59	33.62	33.56	33.38	33.35	33.49
9	33.54	33.49	33.45	33.56	33.65	33.61	33.60	33.62	33.45	33.32	33.48	33.56
10	33.54	33.50	33.49	33.55	33.75	33.55	33.56	33.61	33.42	33.46	33.47	33.57
11	33.55	33.49	33.45	33.57	33.71	33.52	33.60	33.56	33.44	33.41	33.49	33.58
12	33.56	33.52	33.47	33.56	33.69	33.49	33.62	33.52	33.44	33.50	33.49	33.56
13	33.54	33.48	33.49	33.56	33.70	33.57	33.62	33.58	33.46	33.52	33.48	33.58
14	33.50	33.51	33.50	33.57	33.71	33.59	33.65	33.63	33.48	33.53	33.46	33.57
15	33.48	33.52	33.50	33.57	33.72	33.61	33.68	33.62	33.45	33.55	33.46	33.59
16	33.47	33.53	33.50	33.58	33.72	33.69	33.65	33.68	33.45	33.54	33.45	33.60
17	33.38	33.53	33.51	33.58	33.72	33.64	33.68	33.63	33.42	33.54	33.44	33.59
18	33.46	33.47	33.52	33.56	33.73	33.65	33.67	33.66	33.48	33.54	33.46	33.59
19	33.47	33.34	33.52	33.58	33.72	33.66	33.69	33.69	33.46	33.56	33.51	33.57
20	33.48	33.43	33.53	33.59	33.74	33.63	33.59	33.72	33.50	33.55	33.48	33.56
21	33.52	33.47	33.55	33.58	33.75	33.60	33.78	33.73	33.49	33.59	33.48	33.60
22	33.51	33.51	33.54	33.62	33.75	33.65	33.66	33.71	33.55	33.59	33.48	33.51
23	33.50	33.48	33.56	33.58	33.59	33.63	33.59	33.72	33.53	33.56	33.49	33.52
24	33.36	33.47	33.60	33.58	33.58	33.63	33.67	33.74	33.49	33.52	33.50	33.50
25	33.52	33.57	33.67	33.60	33.60	33.59	33.65	33.52	33.52	33.54	33.49	33.49
26	33.52	33.50	33.61	33.59	33.62	33.57	33.73	33.54	33.52	33.50	33.52	33.45
27	33.42	33.46	33.55	33.61	33.57	33.56	33.56	33.53	33.50	33.56	33.50	33.50
28	33.42	33.46	33.60	33.62	33.57	33.54	33.55	33.63	33.49	33.48	33.49	33.46
29	33.42	33.57	33.65	33.59	33.59	33.59	33.55	33.68	33.52	33.51	33.48	33.49
30	33.45	33.58	33.65	33.59	33.59	33.59	33.55	33.66	33.54	33.54	33.49	33.54
1-10 MEANS	33.55	33.47	33.46	33.56	33.64	33.62	33.58	33.59	33.55	33.48	33.48	33.52
SAMPLE SIZE	10	10	10	10	9	10	10	9	10	10	10	10
11-20 MEANS	33.49	33.48	33.50	33.57	33.72	33.61	33.65	33.63	33.46	33.52	33.47	33.58
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	33.50	33.49	33.58	33.60	33.62	33.60	33.61	33.65	33.51	33.54	33.49	33.51
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	33.51	33.48	33.52	33.58	33.66	33.61	33.61	33.63	33.51	33.52	33.48	33.54
SAMPLE SIZE	31	28	31	30	30	30	31	30	30	31	30	31
MAXIMUM VALUE	33.57	33.57	33.67	33.65	33.75	33.69	33.78	33.74	33.69	33.60	33.54	33.60
MINIMUM VALUE	33.36	33.34	33.44	33.52	33.57	33.49	33.43	33.51	33.42	33.32	33.35	33.45
RANGE	0.21	0.23	0.23	0.13	0.18	0.20	0.35	0.23	0.27	0.28	0.19	0.15
STANDARD DEV.	0.05	0.04	0.05	0.03	0.06	0.04	0.06	0.07	0.07	0.06	0.03	0.04
ANNUAL MIN	33.32											
ANNUAL MEAN	33.55											
ANNUAL MAX	33.78											

SIO (bottom), LaJolla, CA.

1990



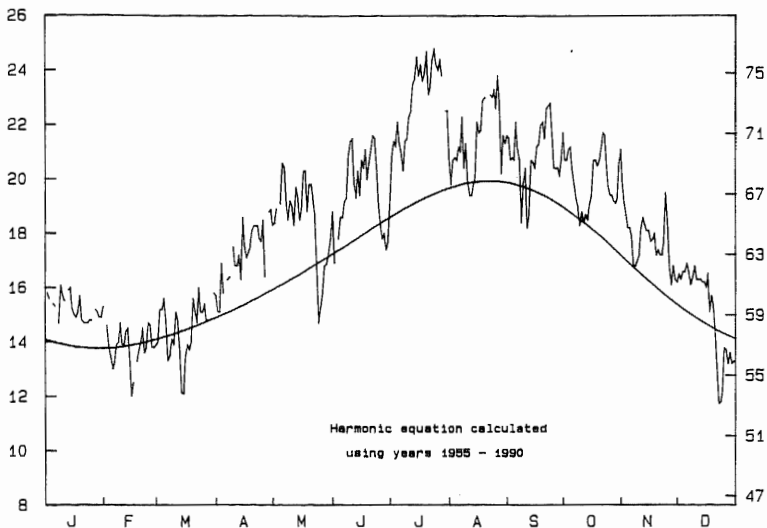
DAYS	SCRIPPS PIER			BOTTOM			SIGMA T			YEAR 1990		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24.74	24.92	25.05	24.82	24.32	24.50	23.75	24.16	23.38	23.48	23.86	24.51
2	24.76	24.76	24.91	24.89	24.35	24.39	24.81	23.80	23.17	23.53	24.15	24.56
3	24.80	24.91	24.91	24.94	24.27	24.63	23.98	24.06	23.14	23.55	24.30	24.50
4	24.58	25.05	24.92	24.79	24.04	24.82	23.91	24.41	24.12	23.46	24.20	24.58
5	24.88	25.12	25.08	24.56	24.07	24.49	23.92	24.37	24.38	23.59	24.29	24.52
6	24.88	25.06	25.06	24.55	24.10	24.12	24.28		23.52	23.72	24.47	24.56
7	24.94	24.91	24.96	24.54	24.38	23.97	24.45	23.54	24.10	23.85	24.50	24.48
8	24.85	25.08	24.92	24.96	24.18	23.99	24.39	23.39	23.32	24.61	24.72	24.47
9	24.80	25.14	24.95	24.60	24.04	24.06	24.05	23.31	24.25	24.57	24.18	24.53
10	24.72	25.05	25.02	24.70		23.79	24.34	23.45	24.67	23.82	24.25	24.56
11	24.77	25.02	24.99	24.78	24.19	23.92	23.51	23.79	24.05	24.13	24.29	24.61
12	24.78	25.04	25.05	24.71	24.15	23.89	23.28	24.09	24.20	23.59	24.31	24.53
13	24.76	24.82	25.08	24.43	24.15	24.60	23.13	23.42	23.81	23.60	24.31	24.60
14	24.75	25.20	25.17	24.39	24.06	24.14	22.97	23.29	23.91	23.69	24.19	24.58
15	24.78	25.31	25.03	24.49	24.09	24.40	23.13	23.42	23.81	23.60	24.31	24.60
16	24.82	25.09	24.94	24.38	24.07	23.82	23.19	23.24	24.01	23.60	24.30	24.72
17	24.77	25.31	24.89	24.50	23.94	23.83	23.05	23.34	24.33	23.52	24.22	24.86
18	24.89	25.17	25.00	24.41	23.98	23.84	23.04	23.37	23.78	23.52	24.24	24.80
19	24.96	25.11	24.54	24.31	24.12	23.66	23.22	23.22	23.87	23.53	24.32	24.74
20	24.87	25.18	24.97	24.34	24.21	23.92	23.97	23.14	23.83	23.53	24.24	24.99
21	24.94	25.09	25.00	24.26	24.04	24.23	22.98	23.31	23.64	23.77	24.47	25.09
22	24.91	25.20	24.85	24.57	23.84	23.97	23.34	23.21	23.55	23.77	24.35	25.02
23	24.88	24.97	24.86	24.40	23.87	24.31	24.12	23.09	23.77	23.75	24.29	25.21
24	24.88	25.32	24.82	24.46	23.87	23.64	23.92	23.25	23.72	23.87	24.31	25.23
25	24.69	25.05	25.11	24.47	25.01	24.37	23.46	22.75	23.74	23.79	24.36	25.17
26	24.81	25.33	25.03	24.45	24.37	24.39	23.58	24.07	23.48	23.83	24.63	25.16
27	24.79	25.17	25.13	24.47	24.27	24.46	23.52	23.83	23.58	23.85	24.52	25.01
28	24.88	25.04	24.94		24.30	24.42	24.05	24.15	23.72	23.85	24.55	25.09
29	24.88	25.17			24.05	24.87	24.01	22.75	23.53	23.94	24.52	25.12
30	24.86	25.02	24.36		24.24	23.97	24.19	23.33	23.50	23.83	24.53	25.08
31	24.78	25.09			24.24		24.09	23.37		23.65	24.53	25.08
1-10 MEANS	24.80	25.00	24.98	24.73	24.19	24.28	24.16	23.84	23.81	23.79	24.29	24.53
SAMPLE SIZE	10	10	10	10	9	10	10	9	10	10	10	10
11-20 MEANS	24.81	25.13	24.97	24.47	24.10	23.94	23.27	23.45	23.96	23.63	24.28	24.71
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	24.84	25.12	25.04	24.46	24.19	24.28	23.72	23.37	23.62	23.81	24.46	25.11
SAMPLE SIZE	11	8	11	8	11	10	11	11	11	11	10	11
MONTHLY MEANS	24.82	25.08	25.00	24.56	24.16	24.17	23.72	23.54	23.80	23.74	24.34	24.79
SAMPLE SIZE	31	28	31	28	30	30	31	30	30	31	30	31
MAXIMUM VALUE	24.96	25.33	25.50	24.96	25.01	24.87	24.51	24.41	24.67	24.61	24.72	25.23
MINIMUM VALUE	24.58	24.76	24.54	24.26	23.84	23.64	22.97	22.75	23.14	23.46	23.86	24.47
RANGE	0.38	0.56	0.96	0.70	1.17	1.23	1.54	1.66	1.53	1.16	0.87	0.75
STANDARD DEV.	0.08	0.14	0.15	0.21	0.22	0.34	0.49	0.44	0.36	0.28	0.17	0.27
ANNUAL MIN		22.75										
ANNUAL MEAN					24.31							
ANNUAL MAX										25.50		

San Clemente Pier, CA.

Degrees
Centigrade

1990

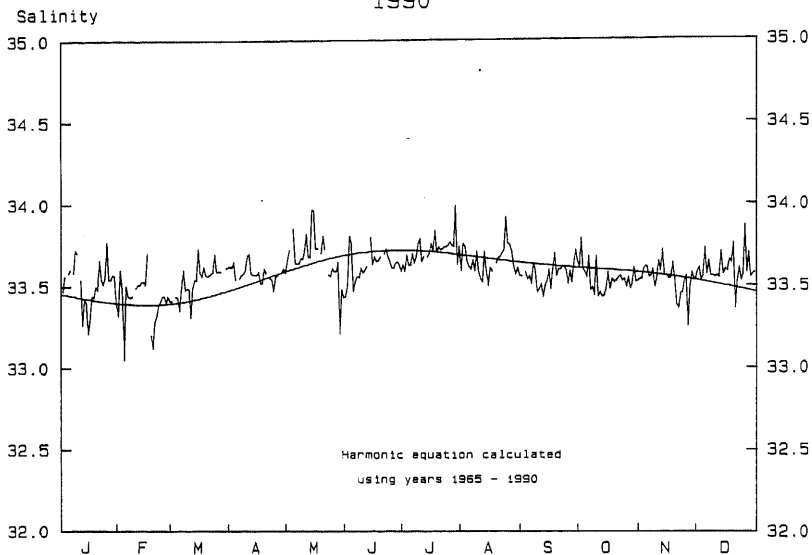
Degrees
Fahrenheit



DAYS	SAN CLEMENTE											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			14.0	15.1	18.4	16.9	20.8	19.8	21.5	20.7	19.8	16.5
2	15.8	14.6	15.2	15.1	18.9		21.4	20.7	20.7	20.7	19.1	16.3
3	15.6	13.8	15.2	16.9		17.8	21.2	20.8	20.8	21.1	18.7	16.6
4		13.4	15.6	15.8	19.1	18.6	22.1	20.7	20.7	20.3	21.2	16.6
5	15.4	13.0	14.8		20.6	18.6	21.3	21.2	22.1	20.3	18.2	16.9
6	15.3	13.3	13.3	16.3	20.4	19.2	20.9	21.0	21.1	19.8	17.9	16.6
7		13.9	13.5	16.4	19.1	19.3	20.3	22.3	20.7	19.3	16.8	16.1
8	14.7	14.0	14.1		18.5	20.9	21.4	20.4	18.4	19.0	16.8	16.4
9	16.1	14.7	13.9	17.5	19.2	21.4	21.5	21.3	19.9	18.3	17.0	16.8
10	15.7	13.9	15.3	16.8	19.0	21.5	22.3	19.9	20.4	18.8	17.2	16.3
11	15.5	13.9	14.8	16.8	18.3	19.8	22.5	19.4	18.2	18.4	18.2	16.3
12		14.4	13.8	17.2	19.7	19.7	23.5	19.4	18.7	18.7	18.6	16.3
13	15.9	14.5	12.1	16.3	19.3	20.3	23.7	19.8	20.7	18.5	18.3	16.2
14	16.0	13.5	12.1	18.6	18.5	19.4	24.5	20.1	20.6	19.1	18.1	16.2
15	15.2	12.0	13.5	17.5	19.0	20.7	23.8	22.1	20.4	19.4	18.1	16.0
16	15.0	12.5	13.9	17.1	20.3	20.4	24.2	21.7	21.2	20.7	17.7	16.3
17	14.9		13.3	17.3	20.3	21.1	23.6	21.8	21.3	20.7	17.8	15.1
18	15.1	13.3	14.0	17.5	18.8	20.0	23.9	22.9	22.0	20.5	18.0	15.1
19	15.7	13.7	15.6	18.1	19.8	20.6	24.7	23.0	22.1	20.7	17.2	15.1
20	14.8	14.0	15.1	18.3	19.8	21.1	23.1		21.5	21.2	17.4	14.3
21	14.7	14.5	14.7	18.3	19.3	21.6	24.4		21.6	20.7	17.2	13.0
22	14.7	13.6	16.0	18.3	18.7	21.5	24.4	23.1	22.7	21.6	17.2	11.7
23	14.7	13.8	15.1	17.8	16.8	20.5	24.8	23.0	22.8	20.5	17.7	11.8
24	14.8	14.7	15.1	17.7	14.7	19.1	24.2	23.3	21.7	19.7	19.5	12.2
25	14.8	14.6	15.4	18.5	15.3	18.4	24.0	22.6	20.4	19.4	18.5	13.8
26		13.8	14.8	16.4	15.8	17.8	24.4	23.8	20.4	19.4	16.7	13.7
27	15.2	13.8	14.8		16.8	18.0	23.8	22.9	20.4	19.2	16.1	13.2
28	15.1	13.9		18.8	16.9	17.4		20.2	20.1	19.1	16.8	13.8
29	14.9			18.9	17.3	17.7	22.5	21.6	20.7	19.3	16.3	13.2
30	14.9		15.8	18.3	17.8	19.1	22.5	21.3	21.7	20.6	16.2	13.3
31	15.3		15.7	18.8	18.8		20.7	21.6		21.1		
1-10 MEANS	15.51	13.84	14.47	16.24	19.24	19.36	21.32	20.81	20.63	19.92	17.97	16.51
SAMPLE SIZE	7	9	10	8	9	9	10	10	10	10	10	10
11-20 MEANS	15.34	13.53	13.86	17.47	19.38	20.27	23.75	21.13	20.67	19.79	17.94	15.79
SAMPLE SIZE	9	9	10	10	10	10	10	9	10	10	10	10
21-31 MEANS	14.91	14.09	15.27	18.11	17.11	19.11	23.47	22.34	21.35	20.15	17.22	12.95
SAMPLE SIZE	10	8	9	9	11	10	10	10	10	11	10	10
MONTHLY MEANS	15.22	13.81	14.51	17.32	18.51	19.59	22.85	21.44	20.88	19.96	17.71	15.08
SAMPLE SIZE	26	26	29	27	30	29	30	30	30	31	30	30
MAXIMUM VALUE	16.1	14.7	16.0	18.9	20.6	21.6	24.8	23.8	22.8	21.7	19.8	16.9
MINIMUM VALUE	14.7	12.0	12.1	15.1	14.7	16.9	20.3	19.4	18.2	18.3	16.1	11.7
RANGE	1.4	2.7	3.9	3.8	5.9	4.7	4.5	4.4	4.6	3.4	3.7	5.2
STANDARD DEV.	0.44	0.65	1.02	1.06	1.50	1.39	1.39	1.28	1.14	1.01	0.94	1.67
ANNUAL MIN		11.7										
ANNUAL MEAN						18.07						
ANNUAL MAX										24.8		

San Clemente Pier, CA.

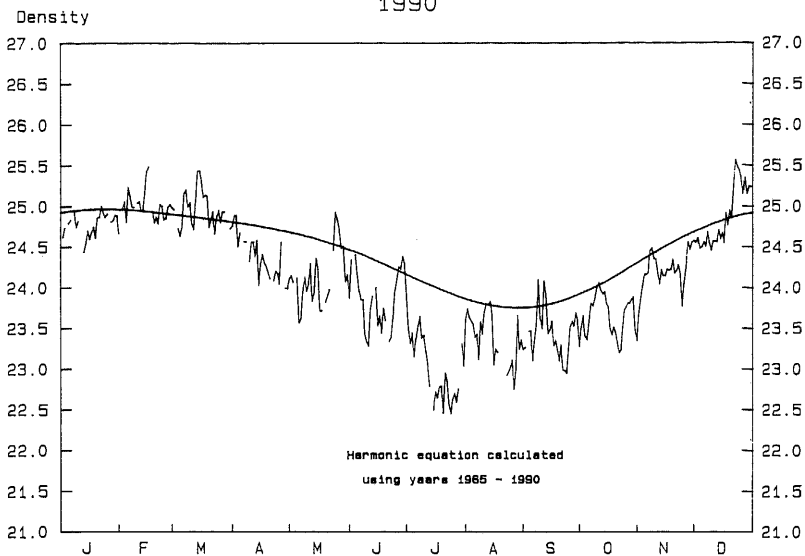
1990



DAYS	SAN CLEMENTE					SALINITY					YEAR 1990	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		33.32	33.41	33.62	33.66	33.44	33.63	33.59	33.56	33.61	33.54	33.59
2	33.47	33.60		33.62	33.72	33.51	33.59	33.76		33.79	33.54	33.61
3	33.56	33.48	33.44	33.65		33.81	33.69	33.74	33.58	33.60	33.60	33.53
4		33.05	33.43	33.54	33.85	33.76	33.63	33.65	33.54	33.58	33.62	33.56
5	33.58	33.50	33.35		33.64	33.47	33.63	33.62	33.56	33.55	33.61	33.73
6	33.60	33.44	33.49	33.55	33.64	33.53	33.70	33.60	33.51	33.68	33.55	33.57
7		33.70	33.49	33.60	33.57	33.64	33.56	33.64	33.64	33.47	33.56	33.65
8	33.58	33.44	33.48	33.58	33.67	33.55	33.68	33.59	33.59	33.49	33.60	33.56
9		33.72	33.49	33.60	33.67	33.61	33.76	33.71	33.46	33.44	33.49	33.56
10		33.70	33.43	33.60	33.72	33.58	33.79	33.68	33.48	33.68	33.54	33.55
11		33.54	33.51	33.31	33.70	33.82	33.60	33.65	33.54	33.51	33.43	33.65
12		33.26	33.51	33.49	33.58	33.68	33.62	33.68	33.52	33.43	33.46	33.59
13		33.26	33.53	33.54	33.57	33.68			33.71	33.50	33.43	33.72
14		33.42	33.53	33.54	33.57	33.97	33.80	33.68	33.59	33.53	33.44	33.56
15		33.40	33.51	33.73	33.57	33.96	33.63	33.70	33.50	33.60	33.48	33.56
16		33.21	33.70	33.56	33.59	33.73	33.68	33.76	33.61	33.48	33.54	33.59
17		33.30		33.56	33.52	33.73	33.65	33.71	33.59	33.60	33.48	33.55
18		33.44	33.20	33.62	33.52		33.66	33.84		33.70	33.54	33.64
19		33.43	33.12	33.57	33.61	33.70	33.68	33.71	33.64	33.56	33.52	33.54
20		33.50	33.29	33.56	33.58	33.81	14.110	33.74	33.67	33.60	33.53	33.38
21		33.48	33.32	33.57	33.61	33.73	33.70	33.72	33.68	33.60	33.55	33.36
22		33.66	33.39	33.58	33.55		33.73	33.73	33.64	33.62	33.56	33.45
23		33.54	33.41	33.59	33.54	33.57	33.68	33.74	33.72	33.62	33.53	33.46
24		33.51	33.44	33.70	33.47	33.56	33.65	33.74	33.92	33.59	33.54	33.57
25		33.56	33.44	33.59	33.56	33.61	33.61	33.75	33.76	33.51	33.49	33.56
26		33.77	33.40	33.59	33.57	33.59	33.61	33.77	33.75	33.59	33.55	33.58
27		33.54	33.44	33.59		33.59	33.64	33.75	33.71	33.52	33.48	33.49
28		33.54			33.59	33.65	33.65	33.74	33.62	33.63	33.51	33.58
29		33.57			33.61	33.21	33.63	33.99	33.57	33.72	33.61	33.54
30		33.56		33.61	33.58	33.48	33.59	33.63	33.61	33.65	33.52	33.54
31		33.39		33.62		33.43		33.74	33.56		33.53	33.58
1-10 MEANS	33.60	33.42	33.46	33.60	33.69	33.58	33.67	33.65	33.55	33.59	33.56	33.59
SAMPLE SIZE		9	9	9	9	9	10	10	9	10	10	10
11-20 MEANS	33.39	33.43	33.65	33.58	33.79	33.67	33.72	33.60	33.55	33.49	33.57	33.60
SAMPLE SIZE		9	10	10	9	8	9	9	10	10	10	10
21-31 MEANS	33.56	33.41	33.60	33.56	33.54	33.65	33.75	33.69	33.60	33.53	33.48	33.61
SAMPLE SIZE		8	9	8	10	10	11	11	10	11	10	10
MONTHLY MEANS	33.51	33.42	33.54	33.58	33.67	33.63	33.72	33.65	33.57	33.54	33.54	33.60
SAMPLE SIZE		26	28	27	28	28	30	30	29	31	30	30
MAXIMUM VALUE	33.77	33.70	33.73	33.70	33.97	33.81	33.99	33.92	33.72	33.79	33.72	33.87
MINIMUM VALUE	33.21	33.05	33.31	33.47	33.21	33.44	33.59	33.50	33.43	33.43	33.25	33.36
RANGE	0.56	0.65	0.42	0.23	0.76	0.37	0.40	0.42	0.29	0.36	0.47	0.51
STANDARD DEV.	0.13	0.14	0.10	0.05	0.15	0.09	0.08	0.09	0.07	0.08	0.09	0.09
ANNUAL MIN		33.05				33.58					33.99	
ANNUAL MEAN												
ANNUAL MAX												

San Clemente Pier, CA.

1990



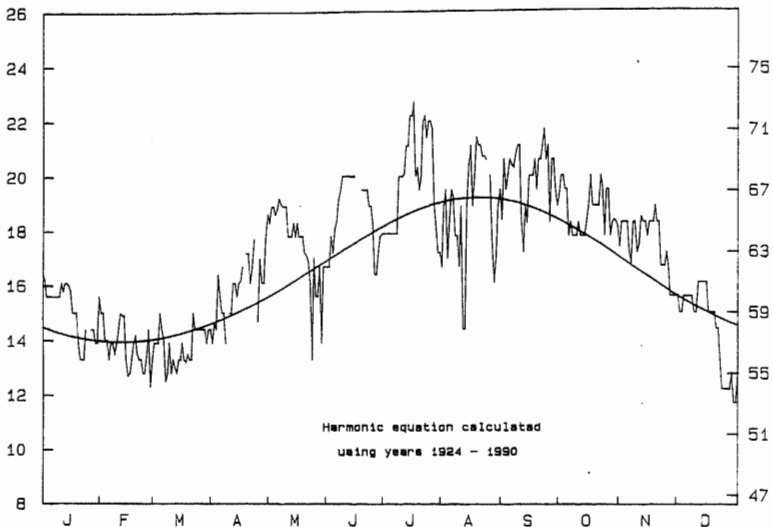
DAYS	SAN CLEMENTE												SIGMA T'	YEAR 1990											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			24.96	24.89	24.15	24.34	23.51	23.74	23.26	23.52	23.70	24.55													
2	24.62	24.98		24.89	24.07		23.31	23.63		23.66	23.88	24.61													
3	24.73	25.05	24.73	24.50		24.41	23.44	23.59	23.47	23.40	24.03	24.48													
4		24.80	24.63		24.12	24.18		23.35	23.46		23.36	24.17	24.30												
5	24.79	25.23	24.74		23.57	23.95	23.37	23.39	23.10	23.58	24.16	24.56													
6	24.83	25.13	25.16	24.57	23.62	23.85	23.53	23.43	23.33	23.81	24.19	24.51													
7		25.00	25.21	24.56	23.96	23.85	23.65	23.12	23.54	23.78	24.46	24.69													
8	24.94	24.98	24.99		24.13	23.42	23.38	23.58	24.10	23.87	24.49	24.55													
9	24.74		25.04	24.32	23.96	23.33	23.42	23.43	23.61	24.01	24.36	24.46													
10	24.82	25.04	24.78	24.56	24.04	23.28	23.22	23.71	23.50	24.06	24.35	24.57													
11		25.06	24.71	24.56	24.30	23.75	23.05	23.80	24.08	23.97	24.19	24.57													
12		24.95	25.06	24.38	23.83	23.89	22.79	23.79	23.90	23.92	24.05	24.57													
13	24.43	24.95	25.44	24.58	23.94			23.83	23.43	23.95	24.22	24.71													
14	24.53	25.15	25.44	24.03	24.36	24.00	22.50	23.66	23.48	23.81	24.15	24.60													
15	24.70	25.43	25.31	24.30	24.23	23.53	22.72	23.05	23.59	23.76	24.15	24.67													
16	24.59	25.48	25.11	24.41	23.72	23.65	22.65	23.25	23.28	23.50	24.23	24.55													
17	24.68		25.14	24.31	23.72	23.44	22.78	23.20	23.35	23.42	24.21	24.92													
18	24.75	24.94	24.94		23.74	22.79		23.23	23.52	24.23	24.77														
19	24.61	24.80	24.74	24.18	23.82	23.60	22.46	22.90	23.10	23.45	24.35	24.95													
20	24.86	24.87	24.84	24.11	23.91	23.90	22.95		23.29	23.32	24.18	24.86													
21	24.87	24.78	24.94		23.98	23.34	22.85		22.99	23.20	24.21	25.25													
22	25.00	25.03	24.66	24.09		23.39	22.56	22.92	22.97	23.24	24.28	25.57													
23	24.91	25.00	24.86	24.20	24.46	23.62	22.45	22.96	22.95	23.51	24.17	25.49													
24	24.87	24.83	24.95	24.17	24.93	23.97	22.63	23.03	23.23	23.73	23.78	25.44													
25	24.91	24.86	24.80	24.05	24.84	24.11	22.70	23.11	23.52	23.77	24.05	25.36													
26		24.99	24.93	24.56	24.71	24.26	22.59	22.76	23.58	23.81	24.24	25.19													
27	24.80	25.02	24.93		24.00	24.48	24.23	22.76	22.99	23.53	23.81	24.56	25.35												
28	24.83			24.00	24.50	24.38		23.64	23.69	23.88	24.47	25.15													
29	24.89	24.98		23.99	24.07	24.30	23.31	23.24	23.69	23.88	24.56	25.25													
30	24.88		24.72	24.11	24.16	23.92	23.04	23.36	23.28	23.48	24.58	25.23													
31	24.67		24.75		23.67		23.62	23.24		23.35															
1-10 MEANS	24.78	25.03	24.92	24.62	23.96	23.84	23.40	23.52	23.49	23.70	24.18	24.55													
SAMPLE SIZE	7	8	9	8	9	9	10	10	9	10	10	10													
11-20 MEANS	24.64	25.07	25.09	24.31	23.98	23.70	22.74	23.44	23.47	23.66	24.19	24.72													
SAMPLE SIZE	6	9	10	10	10	10	10	10	10	10	10	10													
21-31 MEANS	24.86	24.94	24.84	24.15	24.40	23.95	22.85	23.13	23.33	23.60	24.29	25.32													
SAMPLE SIZE	10	8	9	8	10	10	10	10	10	10	10	10													
MONTHLY MEANS	24.77	25.01	24.95	24.36	24.12	23.84	23.01	23.35	23.43	23.65	24.22	24.86													
SAMPLE SIZE	25	25	28	26	28	27	29	28	29	31	30	30													
MAXIMUM VALUE	25.00	25.48	25.44	24.89	24.93	24.41	23.65	23.83	24.10	24.06	24.58	25.57													
MINIMUM VALUE	24.43	24.78	24.63	23.99	23.57	23.28	22.45	22.76	22.95	23.20	23.70	24.46													
RANGE	0.57	0.70	0.81	0.90	1.36	1.13	1.20	1.08	1.15	0.86	0.88	1.11													
STANDARD DEV.	0.14	0.17	0.23	0.26	0.35	0.35	0.38	0.32	0.29	0.24	0.21	0.36													
ANNUAL MIN		22.45																							
ANNUAL MEAN						24.13																			
ANNUAL MAX											25.57														

Balboa, CA.

Degrees
Centigrade

1990

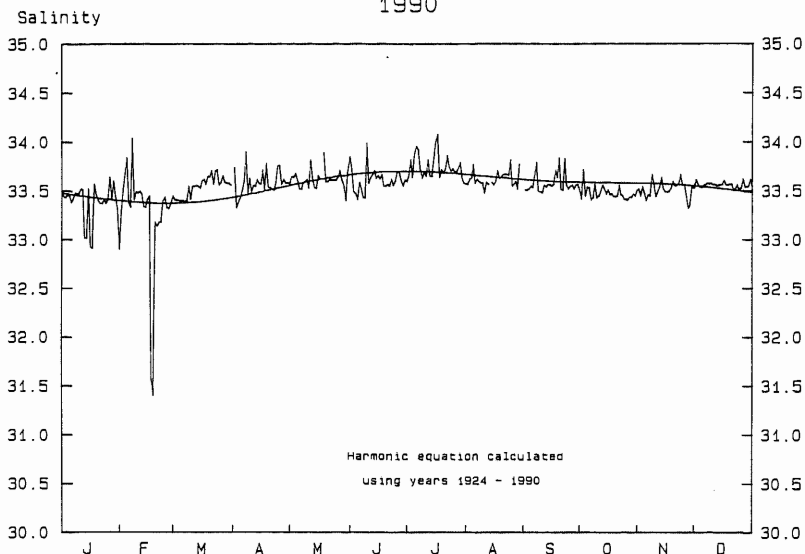
Degrees
Fahrenheit



DAYS	BALBOA TEMPERATURE											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.4	15.0	13.9	13.9	18.3	16.7	17.9	16.7	18.4	19.3	17.4	15.6
2	16.2	15.0	13.9	14.6	18.9	16.7	17.9	18.9	20.6	20.0	18.3	15.0
3	15.6	14.0	13.9	14.4	18.9	17.8	17.9	19.5	19.5	20.0	18.3	15.0
4	15.6	14.0	15.0	16.4	18.6	17.2	17.9	17.0	20.0	19.5	18.3	15.6
5	15.6	13.3	14.4	15.6	18.8	18.1	17.9	18.3	20.6	19.5	18.3	15.6
6	15.6	13.9	14.0	15.0	19.2	18.4	17.9	19.5	20.4	17.8	17.2	15.6
7	15.6	13.9	12.5	15.0	19.0	19.2	17.9	19.2	20.3	18.3	16.8	15.6
8	15.6	13.3	12.8	13.9	18.9	19.5	17.9	17.8	20.8	17.8	18.3	15.6
9	15.6	13.9	13.9	15.0	18.9	20.0	20.0	17.8	21.1	17.8	18.3	15.0
10	15.6	14.4	12.8	15.0	18.9	20.0	20.0	16.7	21.1	17.8	17.2	15.0
11	16.1	15.0	13.3	15.0	17.8	20.0	20.0	18.9	18.3	18.3	17.5	16.1
12	15.8	14.9	13.0	16.1	17.8	20.0	20.0	14.4	17.2	17.8	18.5	16.1
13	16.1	14.9	12.8	16.1	17.8	20.0	21.1	14.4	18.9	17.8	18.3	16.1
14	16.1	13.3	13.3	15.6	18.3	20.0	21.1	18.9	18.3	17.8	18.3	16.1
15	16.0	12.7	13.3	16.1	17.8	20.0	22.2	20.4	20.0	18.3	18.3	16.1
16	15.8	12.8	13.9	16.2	18.3	20.0	22.2	21.1	20.0	18.9	18.3	15.0
17	15.0	13.3	13.3	16.7	17.8	20.0	22.7	18.9	20.0	20.0	18.3	15.0
18	15.0	13.9	13.2	17.2	17.8	20.0	20.0	19.9	20.6	18.9	18.3	15.0
19	15.0	14.2	13.5	17.2	17.8	19.5	20.3	21.4	19.5	18.9	18.9	15.0
20	13.9	13.5	13.3	17.2	17.2	19.5	19.5	21.1	20.6	18.9	18.3	14.4
21	13.3	13.3	13.3	16.1	17.1	19.5	20.0	21.1	20.6	18.9	18.3	14.4
22	13.3	13.3	15.0	16.7	16.9	19.5	22.0	20.7	21.1	20.0	16.7	13.3
23	13.3	12.8	14.4	17.7	16.1	18.9	22.2	20.7	21.7	19.5	16.7	12.2
24	14.4	12.8	14.4	14.4	13.3	18.9	21.4	20.6	20.6	17.8	16.7	12.2
25	14.4	14.4	14.4	14.7	17.0	18.3	22.0	20.0	21.1	19.5	17.2	12.2
26	14.4	14.4	14.4	17.0	15.6	16.4	22.0	20.0	18.3	19.5	16.7	12.2
27	14.4	12.3	14.4	16.1	15.6	14.4	21.7	17.5	20.6	17.8	15.6	12.2
28	14.4	13.3	14.4	16.1	16.7	17.2	19.9	16.1	20.6	18.3	15.6	12.8
29	13.9	13.9	13.9	17.8	13.9	17.8	18.1	17.0	19.5	18.4	15.6	11.7
30	13.9	14.4	14.4	18.6	16.7	17.9	17.2	18.9	18.9	18.3	15.6	11.7
31	15.6	14.4	14.4	16.7	16.7	17.2	19.5	18.1	18.1	18.3	15.6	11.7
1-10 MEANS	15.74	14.09	13.71	14.87	18.84	18.36	18.32	18.14	20.28	18.78	17.84	15.36
SAMPLE SIZE	10	10	10	9	10	10	10	10	10	10	10	10
11-20 MEANS	15.48	13.85	13.29	16.24	17.84	19.88	20.92	18.94	19.34	18.56	18.25	15.49
SAMPLE SIZE	10	10	10	9	10	8	10	10	10	10	10	10
21-31 MEANS	14.06	13.20	14.31	16.76	15.96	18.08	20.25	19.21	20.30	18.74	16.47	12.52
SAMPLE SIZE	9	8	11	9	11	10	11	10	10	11	10	11
MONTHLY MEANS	15.13	13.75	13.79	15.96	17.50	18.69	19.85	18.76	19.97	18.69	17.52	14.39
SAMPLE SIZE	29	28	31	27	31	28	31	30	30	31	31	30
MAXIMUM VALUE	16.4	15.0	15.0	18.6	19.2	20.0	22.7	21.4	21.7	20.0	18.9	16.1
MINIMUM VALUE	13.3	12.3	12.5	13.9	13.3	16.4	17.2	14.4	17.2	17.8	15.6	11.7
RANGE	3.1	2.7	2.5	4.7	5.9	3.6	5.5	7.0	4.5	2.2	3.3	4.4
STANDARD DEV.	0.95	0.77	0.67	1.20	1.45	1.26	1.79	1.90	1.08	0.80	1.00	1.54
ANNUAL MIN	11.7											
ANNUAL MEAN	17.00											
ANNUAL MAX	22.7											

Balboa, CA.

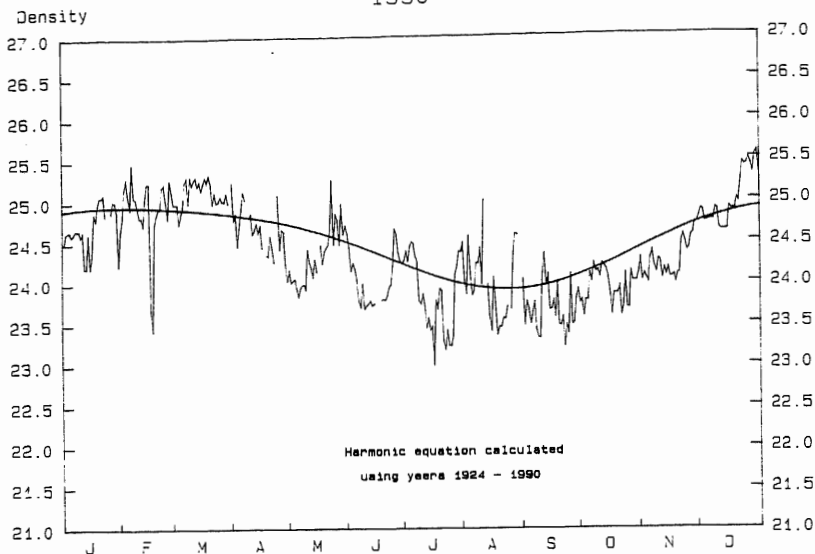
1990



DAYS	BALBOA												SALINITY											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.50	33.29	33.41	33.74	33.65	33.72	33.66	33.57	33.51	33.42	33.52	33.62												
2	33.44	33.51	33.41	33.33	33.64	33.49	33.82	33.62	33.51	33.72	33.45	33.57												
3	33.43	33.60	33.40	33.39	33.68	33.47	33.64	33.64	33.52	33.45	33.45	33.54												
4	33.46	33.84	33.40	33.44	33.61	33.41	33.88	33.77	33.55	33.54	33.48	33.54												
5	33.45	33.37	33.40	33.51	33.52	33.59	33.96	33.58	33.53	33.53	33.40	33.56												
6	33.38	33.33	33.39	33.61	33.52	33.52	33.92	33.62	33.66	33.41	33.46	33.57												
7	33.42	34.04	33.40	33.90	33.59	33.43	33.72	33.60	33.79	33.43	33.45	33.58												
8	33.48	33.41	33.55	33.48	33.60	33.43	33.63	33.58	33.50	33.57	33.67	33.57												
9	33.47	33.49	33.42	33.63	33.62	33.99	33.70	33.58	33.49	33.43	33.57	33.58												
10	33.47	33.48	33.55	33.49	33.53	33.58	33.65	33.48	33.48	33.45	33.44	33.56												
11	33.52	33.50	33.55	33.56	33.82	33.64	33.82	33.59	33.56	33.50	33.49	33.57												
12	33.51	33.47	33.56	33.55	33.62	33.67	33.65	33.57	33.54	33.56	33.54	33.55												
13	33.02	33.34	33.55	33.62	33.53	33.71	33.65	34.00	33.57	33.52	33.64	33.56												
14	33.01	33.33	33.52	33.68	33.53	33.63	33.82	33.59	33.56	33.47	33.52	33.56												
15	33.52	33.42	33.61	33.57	33.66	33.66	34.01	33.56	33.55	33.51	33.49	33.57												
16	33.92	33.45	33.62	33.72	33.62	33.62	34.08	33.60	33.57	33.46	33.49	33.61												
17	33.91	33.58	33.57	33.51	34.200	33.67	33.64	33.71	33.71	33.47	33.50	33.56												
18	33.57	33.40	33.65	33.78	33.89	33.55	33.72	33.63	33.64	33.44	33.53	33.56												
19	33.46	33.18	33.65	33.54	33.59	33.35	33.68	33.64	33.84	33.44	33.60	33.57												
20	33.40	33.14	33.71	33.53	33.60	33.57	33.73	33.67	33.51	33.45	33.55	33.57												
21	33.37	33.18	33.57	33.52	33.62	33.55	33.86	33.67	33.51	33.56	33.56	33.51												
22	33.37	33.19	33.71	33.51	33.61	33.62	33.75	33.67	33.83	33.46	33.57	33.52												
23	33.41	33.40	33.72	33.59	33.61	33.56	33.70	33.66	33.56	33.45	33.67	33.56												
24	33.37	33.44	33.56	33.76	33.61	33.60	33.73	33.82	33.52	33.41	33.56	33.51												
25	33.42	33.39	33.59	33.76	33.64	33.70	33.69	33.55	33.55	33.41	33.57	33.53												
26	33.64	33.32	33.66	33.57	33.71	33.70	33.70	33.57	33.56	33.41	33.45	33.62												
27	33.42	33.38	33.59	33.62	33.61	33.61	33.74	33.60	33.52	33.44	33.52	33.54												
28	33.60	33.45	33.58	33.58	33.55	33.55	33.79	33.52	33.56	33.44	33.36	33.54												
29	33.44		33.58	33.59	33.40	33.61	33.63	33.77	33.57	33.47	33.54	33.55												
30	33.30		33.56	33.57	33.71	33.60	33.58		33.45	33.33	33.62													
31	33.90				33.85		33.57		33.51		33.54													
1-10 MEANS	33.45	33.54	33.43	33.55	33.60	33.56	33.76	33.60	33.55	33.50	33.50	33.57												
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10												
11-20 MEANS	33.28	32.98	33.60	33.60	33.65	33.63	33.78	33.62	33.61	33.48	33.53	33.57												
SAMPLE SIZE	10	10	10	10	9	10	10	9	10	10	10	10												
21-31 MEANS	33.39	33.34	33.61	33.61	33.63	33.61	33.70	33.65	33.57	33.46	33.51	33.55												
SAMPLE SIZE	11	8	10	10	11	10	11	9	10	11	10	11												
MONTHLY MEANS	33.37	33.28	33.55	33.59	33.62	33.60	33.75	33.62	33.58	33.48	33.52	33.56												
SAMPLE SIZE	31	28	30	30	30	30	31	28	30	31	30	31												
MAXIMUM VALUE	33.64	34.04	33.72	33.90	33.89	33.99	34.08	33.82	33.84	33.72	33.67	33.62												
MINIMUM VALUE	32.90	31.40	33.39	33.33	33.40	33.41	33.57	33.48	33.48	33.41	33.32	33.51												
RANGE	0.74	2.64	0.33	0.57	0.49	0.58	0.51	0.34	0.36	0.31	0.35	0.11												
STANDARD DEV.	0.20	0.54	0.10	0.12	0.10	0.11	0.12	0.07	0.09	0.07	0.08	0.03												
ANNUAL MIN		31.40																						
ANNUAL MEAN						33.54																		
ANNUAL MAX										34.08														

Balboa, CA.

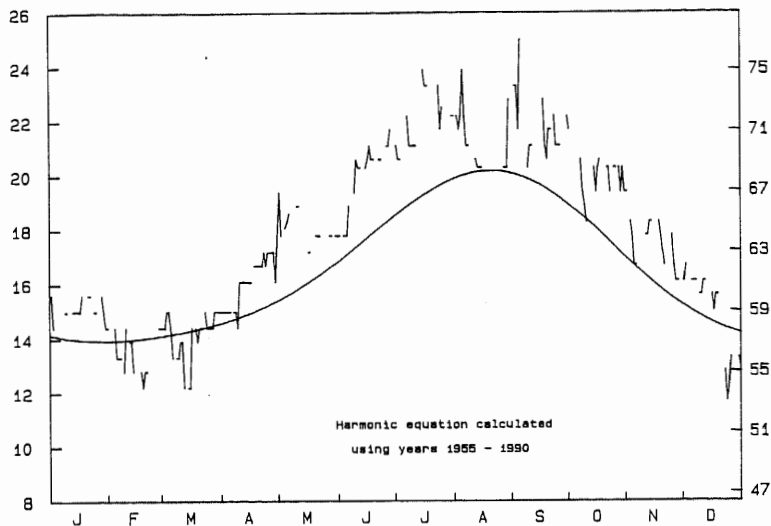
1990



DAYS	BALBOA												SIGMA T												YEAR 1990											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24.50	24.65	24.98	25.23	24.17	24.60	24.27	24.49	24.03	23.74	24.28	24.78	24.50	24.65	24.98	25.23	24.17	24.60	24.27	24.49	24.03	23.74	24.28	24.78	24.50	24.65	24.98	25.23	24.17	24.60	24.27	24.49	24.03	23.74	24.28	24.78
2	24.50	24.82	24.98	24.77	24.01	24.43	24.39	23.99	23.47	23.79	24.01	24.87	24.50	24.82	24.98	24.77	24.01	24.43	24.39	23.99	23.47	23.79	24.01	24.87	24.50	24.82	24.98	24.77	24.01	24.43	24.39	23.99	23.47	23.79	24.01	24.87
3	24.63	25.17	24.97	24.86	24.04	24.15	24.26	23.86	23.76	23.58	24.09	24.85	24.63	25.17	24.97	24.86	24.04	24.15	24.26	23.86	23.76	23.58	24.09	24.85	24.63	25.17	24.97	24.86	24.04	24.15	24.26	23.86	23.76	23.58	24.09	24.85
4	24.65	25.29	24.74	24.66	24.06	24.05	24.44	24.57	23.68	23.78	24.04	24.72	24.65	25.29	24.74	24.66	24.06	24.05	24.44	24.57	23.68	23.78	24.04	24.72	24.65	25.29	24.74	24.66	24.06	24.05	24.44	24.57	23.68	23.78	24.04	24.72
5	24.65	25.07	24.87	24.69	23.94	24.17	24.50	24.11	23.48	23.77	23.97	24.73	24.65	25.07	24.87	24.69	23.94	24.17	24.50	24.11	23.48	23.77	23.97	24.73	24.65	25.07	24.87	24.69	23.94	24.17	24.50	24.11	23.48	23.77	23.97	24.73
6	24.59	24.92	24.94	24.90	23.84	24.04	24.47	23.84	23.64	24.10	24.29	24.74	24.59	24.92	24.94	24.90	23.84	24.04	24.47	23.84	23.64	24.10	24.29	24.74	24.59	24.92	24.94	24.90	23.84	24.04	24.47	23.84	23.64	24.10	24.29	24.74
7	24.62	25.47	25.25	25.12	23.94	23.77	24.32	23.90	23.76	24.00	24.37	24.75	24.62	25.47	25.25	25.12	23.94	23.77	24.32	23.90	23.76	24.00	24.37	24.75	24.62	25.47	25.25	25.12	23.94	23.77	24.32	23.90	23.76	24.00	24.37	24.75
8	24.67	25.06	25.31	25.03	23.98	23.70	24.25	24.23	23.41	24.23	24.18	24.74	24.67	25.06	25.31	25.03	23.98	23.70	24.25	24.23	23.41	24.23	24.18	24.74	24.67	25.06	25.31	25.03	23.98	23.70	24.25	24.23	23.41	24.23	24.18	24.74
9	24.66	25.04	24.99										24.66	25.04	24.99										24.66	25.04	24.99									
10	24.66	24.93	25.31	24.81	23.99	23.99	23.77	24.23	23.32	24.12	24.10	24.88	24.66	24.93	25.31	24.81	23.99	23.99	23.77	24.23	23.32	24.12	24.10	24.88	24.66	24.93	25.31	24.81	23.99	23.99	23.77	24.23	23.32	24.12	24.10	24.88
11	24.59	24.82	25.21	24.86	24.42	23.73	23.86	23.97	24.10	24.05	24.24	24.63	24.59	24.82	25.21	24.86	24.42	23.73	23.86	23.97	24.10	24.05	24.24	24.63	24.59	24.82	25.21	24.86	24.42	23.73	23.86	23.97	24.10	24.05	24.24	24.63
12	24.65	24.82	25.28	24.61	24.27	23.75	23.71	25.00	24.35	24.22	24.03	24.61	24.65	24.82	25.28	24.61	24.27	23.75	23.71	25.00	24.35	24.22	24.03	24.61	24.65	24.82	25.28	24.61	24.27	23.75	23.71	25.00	24.35	24.22	24.03	24.61
13	24.90	24.71	25.31	24.66	24.20	23.78	23.44	25.640	23.95	24.19	24.16	24.62	24.90	24.71	25.31	24.66	24.20	23.78	23.44	25.640	23.95	24.19	24.16	24.62	24.90	24.71	25.31	24.66	24.20	23.78	23.44	25.640	23.95	24.19	24.16	24.62
14	24.20	25.04	25.19	24.75	24.07	23.72	23.57	23.97	24.10	24.15	24.07	24.62	24.20	25.04	25.19	24.75	24.07	23.72	23.57	23.97	24.10	24.15	24.07	24.62	24.20	25.04	25.19	24.75	24.07	23.72	23.57	23.97	24.10	24.15	24.07	24.62
15	24.61	25.23	25.26	24.63	24.30	23.74	23.41	23.56	23.66	24.06	24.17	24.63	24.61	25.23	25.26	24.63	24.30	23.74	23.41	23.56	23.66	24.06	24.17	24.63	24.61	25.23	25.26	24.63	24.30	23.74	23.41	23.56	23.66	24.06	24.17	24.63
16	24.19	25.23	25.14	24.72	24.14								24.19	25.23	25.14	24.72	24.14								24.19	25.23	25.14	24.72	24.14							
17	24.36	23.69	25.23	24.44	24.710	23.75	22.99	24.06	23.78	23.80	24.05	24.86	24.36	23.69	25.23	24.44	24.710	23.75	22.99	24.06	23.78	23.80	24.05	24.86	24.36	23.69	25.23	24.44	24.710	23.75	22.99	24.06	23.78	23.80	24.05	24.86
18	24.87	23.43	25.31		24.47								24.87	23.43	25.31		24.47								24.87	23.43	25.31		24.47							
19	24.79	24.74	25.25	24.35	24.24	23.79	23.68	23.35	24.01	23.86	23.98	24.87	24.79	24.74	25.25	24.35	24.24	23.79	23.68	23.35	24.01	23.86	23.98	24.87	24.79	24.74	25.25	24.35	24.24	23.79	23.68	23.35	24.01	23.86	23.98	24.87
20	24.97	24.85	25.33	24.34	24.39	23.80	23.92	23.46	23.47	23.86	24.09	25.00	24.97	24.85	25.33	24.34	24.39	23.80	23.92	23.46	23.47	23.86	24.09	25.00	24.97	24.85	25.33	24.34	24.39	23.80	23.92	23.46	23.47	23.86	24.09	25.00
21	25.07	24.92	25.23	24.59	24.43	23.79	23.89	23.46	23.47	23.95	24.10	24.95	25.07	24.92	25.23	24.59	24.43	23.79	23.89	23.46	23.47	23.95	24.10	24.95	25.07	24.92	25.23	24.59	24.43	23.79	23.89	23.46	23.47	23.95	24.10	24.95
22	23.07	24.93	24.98	24.44	24.47	23.84	23.27	23.56	23.58	23.59	24.49	25.19	23.07	24.93	24.98	24.44	24.47	23.84	23.27	23.56	23.58	23.59	24.49	25.19	23.07	24.93	24.98	24.44	24.47	23.84	23.27	23.56	23.58	23.59	24.49	25.19
23	25.10	25.19	25.11	24.27	24.66	23.95	23.18	23.56	23.21	23.71	24.56	25.43	25.10	25.19	25.11	24.27	24.66	23.95	23.18	23.56	23.21	23.71	24.56	25.43	25.10	25.19	25.11	24.27	24.66	23.95	23.18	23.56	23.21	23.71	24.56	25.43
24	24.84	25.22	24.99		25.26	23.98	23.42	23.70	23.48	24.10	24.48	25.39	24.84	25.22	24.99		25.26	23.98	23.42	23.70	23.48	24.10	24.48	25.39	24.84	25.22	24.99		25.26	23.98	23.42	23.70	23.48	24.10	24.48	25.39
25	25.02	25.01	25.08	24.47	24.20	23.22							25.02	25.01	25.08	24.47	24.20	23.22							25.02	25.01	25.08	24.47	24.20	23.22						
26	24.81	25.07	24.42	24.85	24.66	23.23	23.67	24.10	23.68	24.40	25.48		24.81	25.07	24.42	24.85	24.66	23.23	23.67	24.10	23.68	24.40	25.48		24.81	25.07	24.42	24.85	24.66	23.23	23.67	24.10	23.68	24.40	25.48	
27	24.88	25.27	25.01	24.66	24.77	24.59	23.35	24.32	23.48	24.13	24.55	25.42	24.88	25.27	25.01	24.66	24.77	24.59	23.35	24.32	23.48	24.13	24.55	25.42	24.88	25.27	25.01	24.66	24.77	24.59	23.35	24.32	23.48	24.13	24.55	25.42
28	25.02	25.13	25.01	24.63	24.47	24.36	24.10	24.59	23.51	24.01	24.58	25.30	25.02	25.13	25.01	24.63	24.47	24.36	24.10	24.59	23.51	24.01	24.58	25.30	25.02	25.13	25.01	24.63	24.47	24.36	24.10	24.59	23.51	24.01	24.58	25.30
29	25.00		25.11	24.24	24.97	24.26	24.20	24.57	23.80	24.00	24.72	25.52	25.00		25.11	24.24	24.97	24.26	24.20	24.57	23.80	24.00	24.72	25.52	25.00		25.11	24.24	24.97	24.26	24.20	24.57	23.80	24.00	24.72	25.52
30	24.90		24.99	24.03	24.60	24.23	24.38			24.01	24.71	25.57	24.90		24.99	24.03	24.60	24.23	24.38			24.01	24.71	25.57	24.90		24.99	24.03	24.60	24.23	24.38			24.01	24.71	25.57
31	24.22			24.70			24.37			24.11	25.30		24.22			24.70			24.37			24.11	25.30		24.22			24.70			24.37			24.11	25.30	
1-10 MEANS	24.61	25.04	25.03	24.88	23.99	24.08	24.24	24.17	23.58	23.92	24.16	24.79	24.61	25.04	25.03	24.88	23.99	24.08	24.24	24.17	23.58	23.92	24.16	24.79	24.61	25.04	25.03	24.88	23.99	24.08	24.24	24.17	23.58	23.92	24.16	24.79
SAMPLE SIZE	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10
11-20 MEANS	24.54	24.66	25.25	24.60	24.28	23.76	23.58	23.84	23.87	23.97	24.09	24.76	24.54	24.66	25.25	24.60	24.28	23.76	23.58	23.84	23.87	23.97	24.09	24.76	24.54											

Santa Monica, CA.

Degrees Centigrade
1990
Degrees Fahrenheit



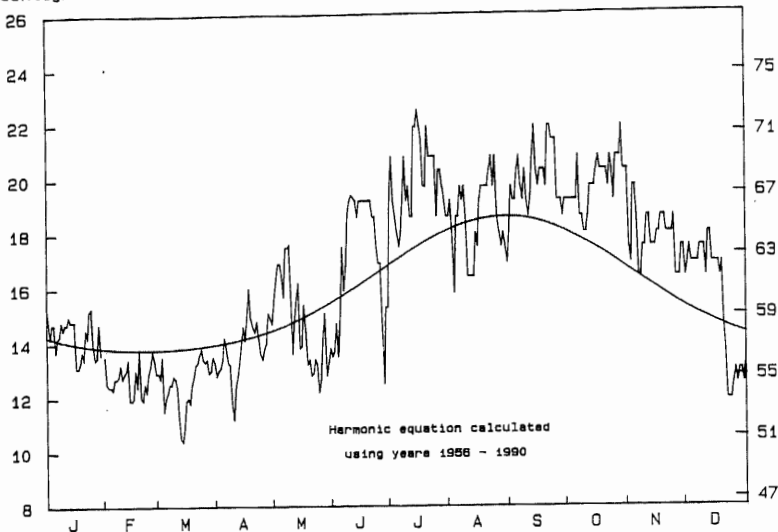
DAYS	SANTA MONICA											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	ADG	SEP	OCT	NOV	DEC
1	15.6		14.4	15.0	19.4	17.8	21.1			21.7	19.4	16.1
2	15.6		14.4	15.0	17.8		20.6	22.2	23.3			16.7
3	14.4		15.0	15.0		17.8	20.6	21.7	23.3	22.2	18.3	
4		14.4	15.0	15.0	18.1	17.8		22.2	21.7		17.8	
5		13.3	14.4	15.0	18.3	17.8	20.6	23.9	25.0		16.7	16.1
6		13.3	13.3		18.6	18.9		22.2	21.1	25.0	16.7	16.1
7	14.4			15.0			22.2	21.1	21.7	20.6		16.1
8			13.3	15.0	19.4		21.1	21.1			15.6	
9	15.0	12.8	13.3	14.4		19.4	21.1	21.1	20.3	19.4	15.6	
10	15.0	14.4	13.9	16.1	18.9	20.6	21.1		20.3	18.9	15.6	
11			13.9	16.1	18.9	20.3	21.1		21.1	18.3	17.8	16.1
12		13.9		16.1		20.3		20.6		20.3	17.8	16.1
13	15.0	13.9	12.2	16.1	18.3		22.8	20.6	21.1		18.3	16.1
14	15.0	12.8	12.2	16.1		17.2	21.1	20.6	23.3	20.3	18.3	16.1
15	15.0		14.4	16.1		17.2	21.1	20.6	23.3	20.3	18.3	16.1
16	15.0			16.1	17.2	20.3	23.9	20.6	23.3		17.8	15.6
17	15.0			16.1		20.6	23.3	20.6	23.3		17.2	15.6
18	15.6	12.8	14.4	16.7		17.8	23.3	21.1	21.1	21.7	18.3	15.6
19		12.2	13.9	16.7		17.8	23.3	21.1	21.1	21.7	17.8	15.6
20		12.8	14.4	16.7	17.8						17.2	
21	15.6	12.8	14.4	16.7	17.8					20.3	16.7	
22	15.6			16.7	17.8	20.6				20.3		
23			15.0	17.2		20.6	23.3	22.2	22.2	19.4		12.8
24	15.0		14.4	16.7	17.8		21.7	21.1	21.1	20.3		11.9
25	15.0	14.4	14.4	17.2		21.1	22.5	21.1	20.3	20.3	17.8	11.9
26			14.4	17.2		21.1		21.1	20.3	20.3	16.7	11.9
27		14.4	14.4	17.2	17.8	21.1		20.3		20.3	16.1	
28		14.4	14.4	17.2	17.8	21.1	23.3	20.3		20.3	16.1	
29	15.0		15.0	16.1		17.8		20.3		20.3	16.1	
30	14.4		15.0	17.8	17.8		22.2	22.8	22.2	20.3		13.3
31	14.4		15.0		17.8		22.2		21.1	19.4		12.8
1-10 MEANS	15.00	13.58	14.11	15.06	18.64	18.59	21.05	22.06	22.34	20.18	17.42	16.04
SAMPLE SIZE	6	6	9	9	7	8	7	6	7	6	6	7
11-20 MEANS	15.10	13.07	13.45	16.30	17.88	20.54	22.95	20.52	21.40	20.15	17.93	15.67
SAMPLE SIZE	6	6	8	9	5	7	6	6	4	7	7	6
21-31 MEANS	15.08	14.00	14.70	17.00	17.80	21.02	22.53	20.92	21.50	20.00	16.68	12.68
SAMPLE SIZE	8	4	10	10	7	5	6	4	9	9	5	6
MONTHLY MEANS	15.06	13.49	14.13	16.15	18.13	19.95	22.07	21.29	21.77	20.09	17.41	14.86
SAMPLE SIZE	20	16	27	28	19	19	20	16	20	19	18	19
MAXIMUM VALUE	15.6	14.4	15.0	17.8	19.4	21.7	23.9	23.9	25.0	22.2	19.4	16.7
MINIMUM VALUE	14.4	12.2	12.2	14.4	17.2	17.8	20.6	20.3	20.3	18.3	15.6	11.7
RANGE	1.2	2.2	2.8	3.4	2.2	3.9	3.3	3.6	4.7	3.9	3.8	5.0
STANDARD DEV.	0.43	0.76	0.87	0.91	0.64	1.29	1.10	1.10	1.12	0.91	0.99	1.59
ANNUAL MIN	11.7											
ANNUAL MEAN	17.87											
ANNUAL MAX	25.0											

Point Dume, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



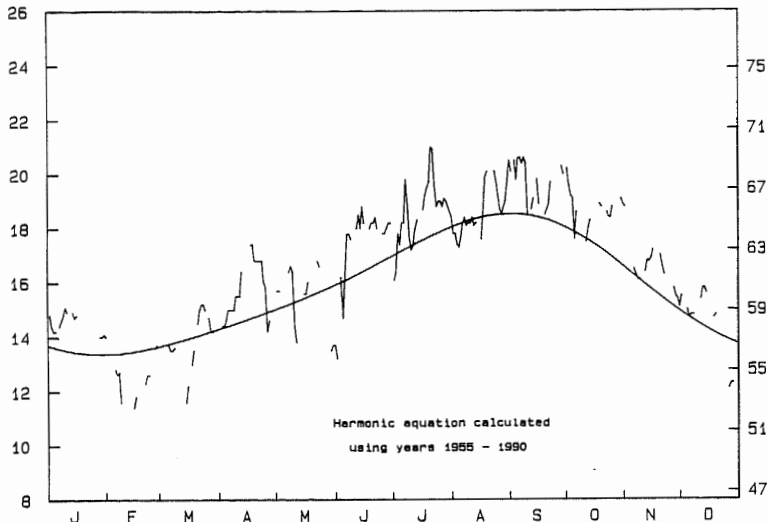
DAYS	POINT DUME												TEMPERATURE												YEAR 1990											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC												
1	15.3	13.5	12.9	12.8	15.6	13.5	19.2	18.6	18.0	19.2	20.3	16.4	15.3	13.5	12.9	12.8	15.6	13.5	19.2	18.6	18.0	19.2	20.3	16.4												
2	14.8	12.5	12.7	13.0	16.3	13.7	20.8	19.2	19.7	19.2	19.2	16.9	14.8	12.5	12.7	13.0	16.3	13.7	20.8	19.2	19.7	19.2	19.2	16.9												
3	14.2	12.4	13.5	13.1	16.9	14.7	19.2	18.0	19.2	19.2	19.2	16.9	14.2	12.4	13.5	13.1	16.9	14.7	19.2	18.0	19.2	19.2	19.2	16.9												
4	14.7	12.4	11.5	13.4	16.9	13.5	18.6	15.8	19.2	19.2	19.2	16.9	14.7	12.4	11.5	13.4	16.9	13.5	18.6	15.8	19.2	19.2	19.2	16.9												
5	14.7	12.3	12.0	14.2	16.5	15.0	18.0	18.6	20.3	19.2	19.2	16.9	14.7	12.3	12.0	14.2	16.5	15.0	18.0	18.6	20.3	19.2	19.2	16.9												
6	13.7	12.7	12.2	13.8	15.7	17.5	17.5	18.6	20.8	19.2	19.2	16.9	13.7	12.7	12.2	13.8	15.7	17.5	17.5	18.6	20.8	19.2	19.2	16.9												
7	14.2	12.7	12.5	13.3	17.5	15.9	18.0	19.7	19.7	19.7	19.7	16.9	14.2	12.7	12.5	13.3	17.5	15.9	18.0	19.7	19.7	19.7	19.7	16.9												
8	14.3	12.8	12.5	13.2	17.5	16.8	19.2	19.2	19.2	19.2	19.2	16.9	14.3	12.8	12.5	13.2	17.5	16.8	19.2	19.2	19.2	19.2	19.2	16.9												
9	14.8	13.2	12.8	11.8	17.6	18.6	20.8	19.7	20.3	18.6	17.5	15.3	14.8	13.2	12.8	11.8	17.6	18.6	20.8	19.7	20.3	18.6	17.5	15.3												
10	14.5	12.7	12.7	11.2	15.8	19.2	19.2	19.2	18.6	19.2	18.0	16.4	14.5	12.7	12.7	11.2	15.8	19.2	19.2	19.2	18.6	19.2	18.0	16.4												
11	14.7	12.9	12.4	12.4	13.6	19.4	19.7	16.4	18.6	18.0	18.6	16.4	14.7	12.9	12.4	12.4	13.6	19.4	19.7	16.4	18.6	18.0	18.6	16.4												
12	14.7	13.0	11.3	12.8	14.6	18.6	16.4	19.2	18.6	18.0	18.6	16.4	14.7	13.0	11.3	12.8	14.6	18.6	16.4	19.2	18.6	18.0	18.6	16.4												
13	15.0	13.4	10.5	13.3	15.6	19.2	18.6	16.4	20.8	19.7	17.5	15.3	15.0	13.4	10.5	13.3	15.6	19.2	18.6	16.4	20.8	19.7	17.5	15.3												
14	14.8	11.9	10.4	13.9	16.2	18.6	21.9	16.4	21.9	19.7	17.5	15.3	14.8	11.9	10.4	13.9	16.2	18.6	21.9	16.4	21.9	19.7	17.5	15.3												
15	14.8	11.9	10.9	14.6	13.8	19.2	21.9	18.0	20.3	19.7	17.5	15.3	14.8	11.9	10.9	14.6	13.8	19.2	21.9	18.0	20.3	19.7	17.5	15.3												
16	14.8	12.0	11.9	14.1	13.9	19.2	22.5	17.5	19.7	20.3	18.0	16.9	14.8	12.0	11.9	14.1	13.9	19.2	22.5	17.5	19.7	20.3	18.0	16.9												
17	13.1	13.0	12.0	14.9	15.4	19.2	21.9	19.2	20.3	20.8	18.0	16.9	13.1	13.0	12.0	14.9	15.4	19.2	21.9	19.2	20.3	20.8	18.0	16.9												
18	13.1	12.4	11.8	16.0	14.5	19.2	21.4	19.7	20.3	20.3	18.6	16.4	13.1	12.4	11.8	16.0	14.5	19.2	21.4	19.7	20.3	20.3	18.6	16.4												
19	13.3	13.8	12.5	14.9	13.2	19.2	19.7	19.7	20.3	20.3	18.6	16.9	13.3	13.8	12.5	14.9	13.2	19.2	19.7	19.7	20.3	20.3	18.6	16.9												
20	13.7	12.0	12.8	14.6	13.4	19.2	19.7	19.7	19.7	20.3	18.6	16.9	13.7	12.0	12.8	14.6	13.4	19.2	19.7	19.7	19.7	20.3	18.6	16.9												
21	13.4	11.9	13.2	14.4	12.8	19.2	21.9	19.7	21.9	20.3	18.0	13.6	13.4	11.9	13.2	14.4	12.8	19.2	21.9	19.7	21.9	20.3	18.0	13.6												
22	14.5	12.5	13.3	14.8	12.9	18.6	20.8	20.3	21.9	19.7	18.0	13.6	14.5	12.5	13.3	14.8	12.9	18.6	20.8	20.3	21.9	19.7	18.0	13.6												
23	14.2	12.2	13.6	14.2	13.4	18.6	20.8	20.8	21.4	20.8	18.0	13.6	14.2	12.2	13.6	14.2	13.4	18.6	20.8	20.8	21.4	20.8	18.0	13.6												
24	15.2	12.9	13.8	13.6	13.2	17.5	20.8	19.7	21.4	20.3	18.0	13.6	15.2	12.9	13.8	13.6	13.2	17.5	20.8	19.7	21.4	20.3	18.0	13.6												
25	15.3	13.2	13.4	13.4	12.2	16.9	20.8	20.8	21.4	19.2	18.6	12.5	15.3	13.2	13.4	13.4	12.2	16.9	20.8	20.8	21.4	19.2	18.6	12.5												
26	13.9	13.7	12.3	13.8	12.7	18.6	19.6	19.2	19.2	20.8	18.0	13.6	13.9	13.7	12.3	13.8	12.7	18.6	19.6	19.2	19.2	20.8	18.0	13.6												
27	13.4	13.4	13.4	14.0	14.2	14.7	20.3	18.0	19.2	20.8	16.4	12.5	13.4	13.4	13.4	14.0	14.2	14.7	20.3	18.0	19.2	20.8	16.4	12.5												
28	13.5	12.9	13.9	15.1	15.3	19.2	20.3	17.5	19.2	20.8	16.4	12.5	13.5	12.9	13.9	15.1	15.3	19.2	20.3	17.5	19.2	20.8	16.4	12.5												
29	14.7	12.9	13.9	14.9	12.9	15.3	19.2	18.0	18.6	19.7	17.5	13.0	14.7	12.9	13.9	14.9	12.9	15.3	19.2	18.0	18.6	19.7	17.5	13.0												
30	13.6	13.5	13.5	14.7	13.3	15.3	19.2	17.5	19.2	20.3	17.5	13.0	13.6	13.5	13.5	14.7	13.3	15.3	19.2	17.5	19.2	20.3	17.5	13.0												
31		13.3	13.3		13.8		18.6	16.9		20.3		13.6		13.3	13.3		13.8		18.6	16.9		20.3		13.6												
1-10 MEANS	14.52	12.72	12.53	12.98	16.63	15.84	19.05	18.60	19.56	19.12	18.05	17.09	14.52	12.72	12.53	12.98	16.63	15.84	19.05	18.60	19.56	19.12	18.05	17.09												
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10												
11-20 MEANS	14.20	12.63	11.65	14.15	14.44	19.17	20.59	17.94	20.11	19.77	18.15	16.80	14.20	12.63	11.65	14.15	14.44	19.17	20.59	17.94	20.11	19.77	18.15	16.80												
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10												
21-31 MEANS	14.17	12.84	13.34	14.29	13.31	16.85	20.15	18.89	20.34	20.47	17.48	12.67	14.17	12.84	13.34	14.29	13.31	16.85	20.15	18.89	20.34	20.47	17.48	12.67												
SAMPLE SIZE	10	8	11	10	11	10	11	11	10	11	10	11	10	8	11	10	11	10	11	11	10	11	10	11												
MONTHLY MEANS	14.30	12.72	12.53	13.81	14.75	17.19	19.94	18.49	20.00	19.81	17.89	15.43	14.30	12.72	12.53	13.81	14.75	17.19	19.94	18.49	20.00	19.81	17.89	15.43												
SAMPLE SIZE	30	28	31	30	31	30	31	31	30	31	31	30	30	28	31	30	31	30	31	31	30	31	31	30												
MAXIMUM VALUE	15.3	13.8	13.8	16.0	17.6	19.4	22.5	20.8	21.9	21.9	20.3	18.0	15.3	13.8	13.8	16.0	17.6	19.4	22.5	20.8	21.9	21.9	20.3	18.0												
MINIMUM VALUE	13.1	11.9	10.4	11.2	12.2	12.5	17.5	15.8	18.0	18.0	16.4	11.9	13.1	11.9	10.4	11.2	12.2	12.5	17.5	15.8	18.0	18.0	16.4	11.9												
RANGE	2.2	1.9	3.4	4.8	5.4	6.9	5.0	5.0	3.9	3.9	3.9	6.1	2.2	1.9	3.4	4.8	5.4	6.9	5.0	5.0	3.9	3.9	6.1													
STANDARD DEV.	0.67	0.55	0.91	1.04	1.64	2.21	1.34	1.38	1.06	0.93	1.00	2.18	0.67	0.55	0.91	1.04	1.64	2.21	1.34	1.38	1.06	0.93	1.00	2.18												
ANNUAL MIN	10.4												16.40												22.5											
ANNUAL MAX	10.4												16.40												22.5											

Santa Barbara, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



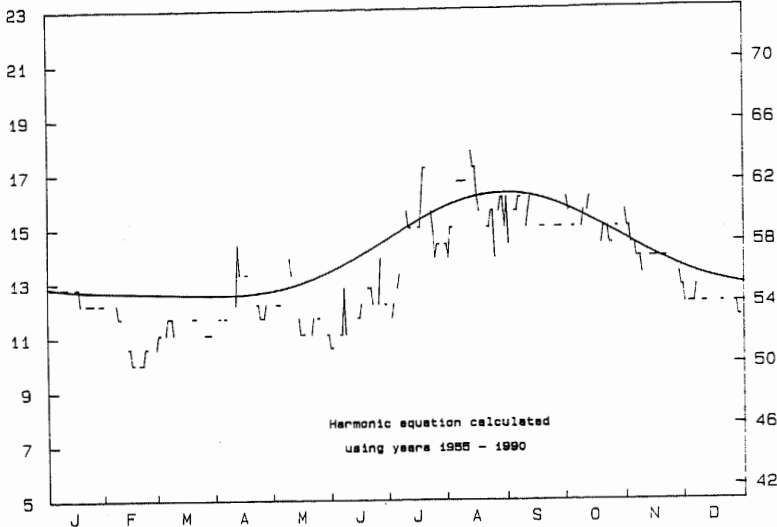
DAYS	SANTA BARBARA					TEMPERATURE				YEAR 1990		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			13.6		15.7	13.2	16.1	17.8	20.1	20.2	18.8	15.5
2				14.4	15.7		16.4	17.8				
3	14.4			13.7	14.4		16.2	17.4	20.5	19.2		
4	14.2			14.6		15.8	14.7	17.4	17.3	19.8	19.1	15.0
5	14.2	12.8		13.7	15.0		16.2	18.2	17.7	20.6	17.6	14.7
6		12.6	13.5	15.0			17.8	18.2	18.2	20.6	18.6	16.5
7	14.4	12.7	13.5	15.0	16.4		17.8	18.8	18.4	20.4	16.3	14.8
8	14.6	11.6	13.6		15.6		17.6	18.9	18.1	20.6	16.1	
9	14.8			15.5	16.4		17.6	18.2	20.4		17.7	
10	15.1			15.5	14.4		17.2	18.2	18.5			
11	14.9			15.5	13.8		18.0	17.4	18.4		17.5	15.4
12			13.1	16.4			18.5	18.0	18.1	18.7	18.0	16.4
13					15.6		18.0	18.3	18.2	19.1	18.3	16.8
14	14.9		11.4		16.0		18.7	17.6	18.8	18.9	18.5	15.8
15	14.7	11.4	12.2				19.2	18.6				
16	14.8	11.8					18.2	19.5	19.9		18.9	14.7
17			13.0	17.4			18.2	19.7	20.1	18.5		14.8
18			13.5	17.4			18.2	21.0		18.7	18.8	
19				16.8	16.5		18.4	20.9		18.9		17.0
20	14.1		14.5	16.8			18.0	19.6		19.7	18.6	
21		12.3	15.0	16.8	16.8		18.8	20.1		18.4	18.4	
22		12.6	15.2	16.8	16.8		19.0	19.7		18.4	18.4	
23		12.6	15.2	16.8	16.6		18.0	19.6		18.6	16.3	
24	14.2		15.0	16.0			19.0	19.7		18.4		
25				15.8			17.8	19.0	19.2	19.4	18.8	
26		13.6	14.7	14.2			17.8	18.8	18.7			12.1
27		13.7	14.2	14.6			18.0	19.1	18.5		15.8	12.3
28	14.0		14.2		13.5		18.2	19.0	18.8	20.3	15.5	12.3
29	14.0				13.7		18.2	18.8	19.0	20.0	15.4	
30	14.1				13.7		18.6	19.7		19.1	15.1	12.9
31	14.0				13.7		18.4	20.5		18.9		
1-10 MEANS	14.56	12.43	13.60	14.93	15.86	16.21	17.76	17.91	20.17	18.86	16.76	14.96
SAMPLE SIZE	8	4	6	9	7	10	10	10	9	7	6	5
11-20 MEANS	14.68	11.60	12.98	16.72	15.52	18.24	18.98	18.70	18.95	18.33	16.85	15.35
SAMPLE SIZE	5	2	6	6	5	8	8	8	6	6	6	6
21-31 MEANS	14.06	12.96	14.71	15.86	14.86	18.06	19.09	19.36	19.66	18.70	15.78	12.30
SAMPLE SIZE	5	5	8	7	5	7	11	9	5	6	6	5
MONTHLY MEANS	14.46	12.52	13.86	15.71	15.46	17.54	18.80	18.62	19.68	18.64	16.45	14.28
SAMPLE SIZE	18	11	20	22	17	22	29	26	20	19	17	16
MAXIMUM VALUE	15.1	13.7	15.2	17.4	16.8	18.8	21.0	20.5	20.6	20.2	18.8	15.8
MINIMUM VALUE	14.0	11.4	11.6	14.2	13.5	13.2	16.1	17.3	18.5	17.5	15.1	11.9
RANGE	1.1	2.3	3.6	3.2	3.3	5.6	4.9	3.2	2.1	2.7	3.7	3.9
STANDARD DEV.	0.37	0.73	0.96	1.04	1.17	1.33	1.12	0.90	0.77	0.68	0.84	1.44
ANNUAL MIN	11.4											
ANNUAL MEAN						16.32						
ANNUAL MAX										21.0		

Avila & Port San Luis, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



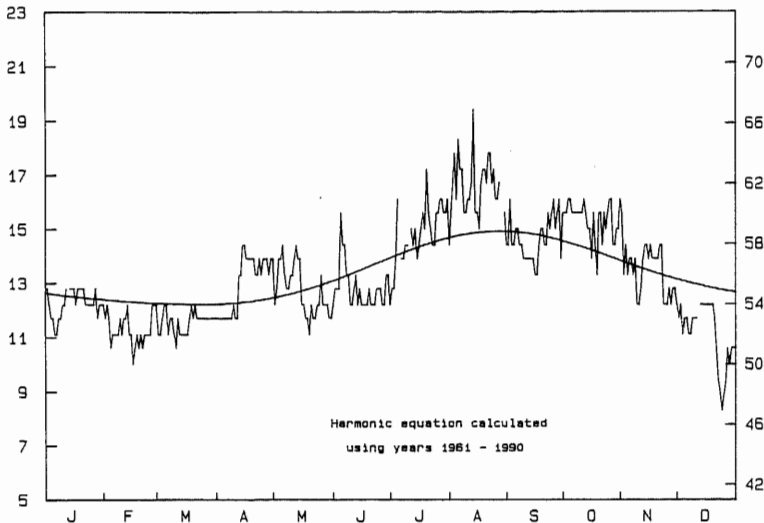
DAYS	PORT SAN LUIS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1			11.1			10.6		13.9	14.4	16.1	15.0	12.2	
2			11.1	11.7	12.2		11.7	15.0		15.6	15.0		
3	12.8	12.2		11.7	12.2	12.2	12.2	15.0			14.4	12.2	
4	12.8				12.2				15.6	15.0		12.2	
5	12.8	12.2	11.1	11.7		11.1	12.8	16.7	15.6	15.0	14.4	12.2	
6			11.7	11.7		11.1	13.3	16.7	15.6	15.0	14.4	12.2	
7			11.7	11.7		11.1	13.3	16.7	15.6	15.0	14.4	12.2	
8	12.8	11.7	11.7		13.9		12.8	16.7	16.1		13.9	12.8	
9	12.8	11.7	11.1	12.2	13.9		12.8	16.7	16.1	15.0	13.9		
10					13.3		12.8	16.7	16.1	15.0	13.9	12.2	
11				12.2			15.6	16.7	16.1	15.0	13.9	12.2	
12			11.1	14.4		12.2	15.0	16.7	16.1	15.0	13.9	12.2	
13		10.6		13.3			15.0	16.7	16.1	15.0	13.9	12.2	
14		10.6	11.1		11.7	11.7	17.2	17.2	15.0	16.1	13.9	12.2	
15		10.0			11.1	11.7	17.2	17.2	15.0	16.1	13.9	12.2	
16	12.8	10.0	11.1	13.3	11.1	12.2	15.0	16.1	15.0	16.1	13.9		
17	12.8			13.3	11.1		15.0	16.1	15.0			12.2	
18	12.8						16.1	16.1	15.0				
19	12.2	10.0	11.7	13.3		12.8	17.2	17.2	15.0	14.4	13.9	12.2	
20		10.0	11.7		11.1	12.8	17.2	17.2	15.0	14.4	13.9	12.2	
21		10.0	11.7		11.7	12.2	17.2	17.2	15.0	14.4	13.9	12.2	
22	12.2			12.2			15.6	15.6	15.0	15.0		11.7	
23	12.2		11.1				15.6	15.6	15.0	14.4			
24	12.2			11.7	11.7		15.0	15.6	15.0	14.4	13.9		
25	12.2		11.1	11.7	11.7	12.2	13.9	13.9	15.0	15.0	13.9	12.2	
26	12.2	10.6	11.1	11.7	11.7	13.9	14.4	14.4	15.0	15.0	13.9	12.2	
27		10.6	11.1	12.2		12.2	14.4	15.6	15.0	15.0	13.9	12.2	
28		10.6	11.1		11.1	12.2	14.4	16.1	15.0	15.0	13.9	12.2	
29	12.2		11.1		11.1	12.2	14.4	16.1	15.0	15.0	13.9	12.2	
30	12.2			12.2	11.1		14.4	15.0			12.8	11.7	
31	12.2		11.1		10.6		14.4	16.1		15.6	12.8		
1-10 MEANS	12.80	12.00	11.36	11.80	12.95	11.48	13.12	15.93	15.47	15.38	14.23	12.29	
SAMPLE SIZE	7	5	7	5	6	6	5	6	6	6	6	7	
11-20 MEANS	12.70	10.20	11.34	13.30	11.25	12.23	15.79	16.78	15.28	15.44	13.90	12.20	
SAMPLE SIZE	6	5	5	6	4	6	7	5	6	5	6	6	
21-31 MEANS	12.20	10.48	11.19	11.99	11.29	12.58	14.59	15.40	15.00	14.90	13.43	11.90	
SAMPLE SIZE	8	5	7	7	7	6	7	5	6	6	6	6	
MONTHLY MEANS	12.54	10.85	11.29	12.37	11.86	12.10	14.64	15.88	15.26	15.23	13.88	12.15	
SAMPLE SIZE	21	16	19	18	17	18	19	23	17	17	20	18	
MAXIMUM VALUE	12.8	12.2	11.7	14.4	13.9	13.9	17.2	17.8	16.1	16.1	15.0	12.8	
MINIMUM VALUE	12.2	10.0	11.1	11.7	10.6	10.6	11.7	13.9	14.4	14.4	12.8	11.7	
RANGE	0.6	2.2	0.6	2.7	3.3	3.3	5.5	3.9	1.7	1.7	2.2	1.1	
STANDARD DEV.	0.30	0.85	0.29	0.80	1.00	0.80	1.46	1.02	0.49	0.57	0.56	0.25	
ANNUAL MIN	10.0			ANNUAL MEAN				13.17			ANNUAL MAX		17.8

Morro Bay, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



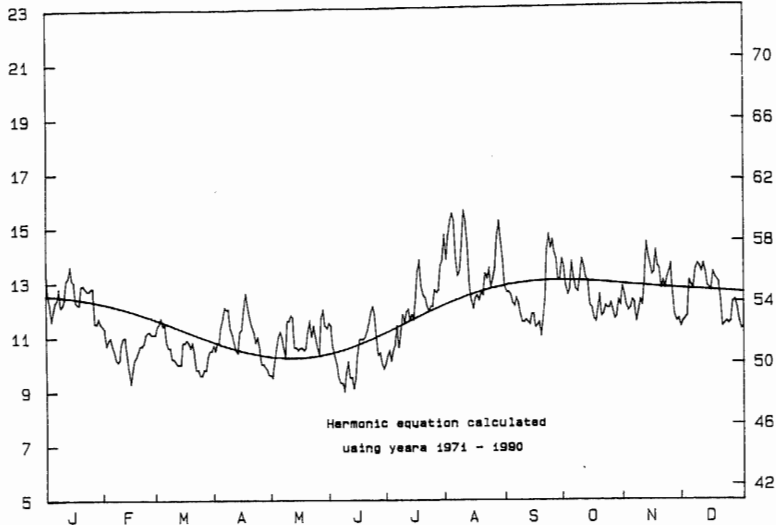
DAYS	MORRO BAY											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.8	11.7	11.1	11.7	12.2	12.8	12.8	15.6	14.4	15.6	15.6	11.7
2	12.8	12.2	11.1	11.7	12.8	12.8	12.8	14.7	16.1	15.6	13.3	12.2
3	12.2	11.7	11.7	11.7	13.9	12.8	13.9	17.8	14.4	16.1	14.4	11.1
4	11.7	10.6	12.2	11.7	13.9	15.6	16.1	16.1	14.4	16.1	13.3	11.7
5	11.7	11.1	12.2	11.7	14.4	14.4	14.4	18.3	15.0	15.6	13.9	11.7
6	11.1	11.1	11.1	11.7	13.3	14.4	13.9	17.2	15.0	15.6	13.9	11.1
7	11.1	11.1	11.7	11.7	12.8	13.3	13.9	17.2	14.4	15.6	13.3	11.1
8	11.7	11.1	11.7	11.7	12.8	13.3	14.4	15.6	14.4	15.6	13.9	11.7
9	11.7	11.7	11.1	12.2	13.3	12.2	14.4	15.6	13.9	15.6	12.2	11.7
10	12.2	11.1	10.6	11.7	13.3	12.2	15.0	16.1	13.9	15.6	12.2	11.7
11	12.2	11.7	11.7	11.7	13.9	12.8	15.0	16.1	13.9	16.1	12.8	5.00
12	12.8	11.7	11.1	13.3	14.4	13.3	14.4	16.7	13.9	15.6	13.9	12.2
13	12.2	12.2	11.1	13.3	13.9	12.2	15.0	19.4	13.9	15.0	14.4	12.2
14	12.8	11.1	11.1	14.4	13.9	12.8	13.9	15.6	13.9	15.0	14.4	12.2
15	12.8	11.1	11.1	14.4	12.2	12.2	14.4	15.6	13.3	13.9	13.9	12.2
16	12.8	10.0	11.1	13.9	12.2	12.2	15.0	15.0	13.3	15.6	14.4	12.2
17	12.2	10.6	11.7	13.9	11.7	12.2	15.6	16.7	14.4	14.4	13.9	12.2
18	12.8	11.1	12.2	13.9	11.7	12.2	15.0	17.2	15.0	13.3	13.9	12.2
19	12.8	10.6	11.7	13.9	11.1	12.8	17.2	15.0	15.6	13.9	12.2	12.2
20	12.8	11.1	12.2	13.9	12.2	12.2	15.6	16.7	14.4	13.9	11.7	12.2
21	12.8	10.6	11.7	13.3	11.7	12.2	15.0	17.8	14.4	14.4	14.4	10.6
22	12.2	11.1	11.7	13.3	11.7	12.2	14.4	17.8	15.6	15.6	14.4	9.4
23	12.2	11.1	11.7	13.9	12.2	12.8	14.4	16.7	15.0	15.0	12.2	8.9
24	12.2	11.1	11.7	13.3	12.2	12.8	13.6	17.2	15.6	15.6	12.2	8.3
25	12.2	11.1	11.7	13.9	12.2	12.8	15.6	16.1	16.1	16.1	12.2	8.9
26	12.2	12.2	11.7	13.9	12.2	12.2	16.1	16.1	15.0	16.1	12.8	9.4
27	12.8	12.2	11.7	13.9	12.2	12.2	16.1	16.7	15.6	14.4	12.2	10.6
28	11.7	12.2	11.7	13.3	12.2	13.3	15.6	20.00	16.1	14.4	12.8	10.0
29	12.2	12.2	11.7	13.9	11.7	13.3	15.6	10.60	13.9	15.0	12.8	10.6
30	12.2	12.2	11.7	13.9	11.7	12.2	16.1	15.6	15.6	15.0	12.2	10.6
31	12.2	12.2	11.7	13.9	12.2	12.2	14.4	14.4	14.4	16.1	10.6	10.6
1-10 MEANS	11.90	11.34	11.45	11.75	13.27	13.38	14.03	16.62	14.56	15.70	13.60	11.57
SAMPLE SIZE	10	10	10	10	10	10	8	10	10	10	10	10
11-20 MEANS	12.67	11.12	11.50	13.66	12.72	12.49	15.11	16.62	14.10	15.01	13.94	12.14
SAMPLE SIZE	9	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	12.26	11.45	11.70	13.66	12.12	12.60	15.35	14.49	15.29	15.25	12.82	9.91
SAMPLE SIZE	11	8	11	10	11	11	11	9	10	11	11	11
MONTHLY MEANS	12.26	11.29	11.55	13.02	12.68	12.82	14.90	14.66	15.32	13.45	11.10	11.10
SAMPLE SIZE	30	28	31	30	31	30	29	29	30	31	30	30
MAXIMUM VALUE	12.8	12.2	12.2	14.4	14.4	15.6	17.2	19.4	16.1	16.1	15.6	12.2
MINIMUM VALUE	11.1	10.0	10.6	11.7	11.1	12.2	12.8	14.4	13.3	13.3	12.2	8.3
RANGE	1.7	2.2	1.6	2.7	3.3	3.4	4.4	5.0	2.8	2.8	3.4	3.9
STANDARD DEV.	0.51	0.58	0.40	1.03	0.92	0.81	1.01	1.06	0.80	0.70	0.92	1.16
ANNUAL MIN	8.3											
ANNUAL MEAN	13.30											
ANNUAL MAX	19.4											

Granite Canyon, CA.

Degrees
Centigrade

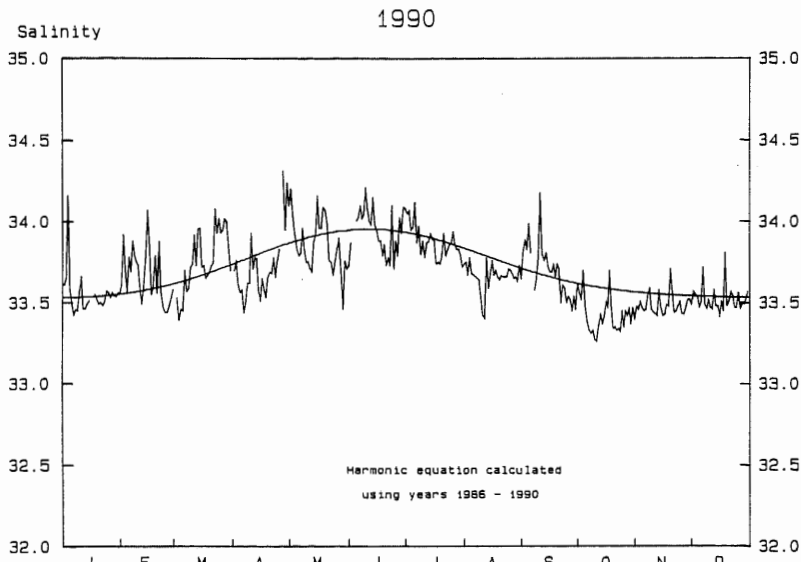
1990

Degrees
Fahrenheit



DAYS	GRANITE CANYON					TEMPERATURE					YEAR 1990														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC													
1	13.5	11.3	11.4	10.5	9.5	11.4	10.3	13.8	12.6	13.5	12.5	11.5													
2	12.5	10.7	11.5	10.8	10.1	10.6	10.5	14.7	12.6	12.8	12.1	11.6													
3	12.2	10.9	11.7	10.8	10.6	10.3	10.1	15.2	12.5	12.5	11.9	11.7													
4	11.6	11.0	11.4	11.4	11.0	10.0	10.5	15.5	12.2	12.7	12.0	13.0													
5	12.0	10.7	11.5	11.7	11.2	9.5	10.7	15.2	12.1	13.7	12.3	12.8													
6	12.3	10.5	10.8	12.1	11.0	9.3	11.4	13.8	12.4	13.1	12.2	12.7													
7	12.4	10.2	10.6	12.0	10.6	9.3	10.6	13.2	12.2	12.7	11.3	13.4													
8	12.8	10.1	10.6	12.0	10.2	9.0	11.1	13.4	11.8	12.6	11.9	13.6													
9	12.1	10.2	10.2	11.3	11.6	9.7	11.8	14.3	11.5	13.1	12.3	13.5													
10	12.2	10.8	10.2	11.1	11.6	10.1	11.5	15.6	11.5	13.8	12.1	13.3													
11	12.4	11.0	10.1	10.8	11.8	9.5	11.9	15.2	11.6	13.5	12.9	13.6													
12	13.1	11.0	10.0	10.5	11.7	9.5	12.0	14.4	11.5	13.1	14.4	13.3													
13	13.2	10.4	10.0	10.4	10.6	9.1	11.6	12.9	11.4	13.0	13.9	12.8													
14	13.6	9.8	10.0	11.2	10.6	9.5	11.8	12.3	11.8	12.1	13.6	12.7													
15	13.1	9.3	10.8	11.3	10.5	10.4	11.6	12.0	11.8	12.0	13.2	12.6													
16	13.0	9.8	10.8	12.0	10.6	10.9	12.4	12.4	11.3	11.6	13.3	13.3													
17	12.3	10.2	10.9	12.6	10.6	10.9	13.4	12.5	11.4	11.5	14.1	13.1													
18	12.2	10.3	10.8	12.1	10.5	10.9	13.8	12.3	11.5	12.0	13.5	13.0													
19	12.2	10.5	10.6	11.7	10.6	11.0	12.8	12.6	11.0	12.5	13.4	12.9													
20	12.9	10.7	10.8	11.4	11.2	11.2	12.5	12.5	11.6	11.7	12.7	12.3													
21	12.9	10.7	10.4	11.2	11.6	11.5	12.4	13.3	12.3	11.8	13.0	11.3													
22	12.8	10.8	9.8	10.8	11.0	11.9	12.1	13.1	14.2	11.7	12.7	11.4													
23	12.7	11.1	9.8	11.0	11.4	12.1	11.9	13.5	14.7	12.0	13.1	11.5													
24	12.7	11.2	9.6	10.6	11.0	11.8	12.1	12.8	14.2	12.0	13.3	11.4													
25	12.8	11.2	9.6	10.0	10.6	11.0	12.1	13.1	14.5	12.2	13.6	11.5													
26	12.8	11.1	9.8	10.0	10.3	10.3	12.7	13.5	14.0	11.9	12.5	12.2													
27	11.5	11.1	9.5	9.9	11.7	10.4	12.6	14.7	13.8	11.6	11.7	12.3													
28	11.5	11.1	10.3	9.8	12.0	10.0	12.7	15.2	13.0	11.7	11.5	12.0													
29	11.7	11.0	10.5	9.6	11.4	9.8	13.6	14.5	13.1	12.3	11.6	11.5													
30	11.5	10.5	10.3	9.6	11.3	10.0	13.8	13.8	13.8	12.1	11.3	11.2													
31	11.4	10.7	11.4	11.5	11.5	11.5	14.7	12.8	12.8	12.8	11.3	11.3													
1-10 MEANS	12.36	10.64	10.99	11.37	10.74	9.92	10.85	14.47	12.14	13.05	12.08	12.71													
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10													
11-20 MEANS	12.80	10.30	10.48	11.40	10.87	10.29	12.38	12.91	11.49	12.30	13.50	12.96													
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10													
21-31 MEANS	12.21	11.04	10.07	10.25	11.25	10.88	12.79	13.66	13.76	12.05	12.43	11.60													
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11													
MONTHLY MEANS	12.45	10.63	10.50	11.01	10.96	10.36	12.03	13.68	12.46	12.45	12.67	12.40													
SAMPLE SIZE	31	28	31	31	31	30	31	31	30	31	30	31													
MAXIMUM VALUE	13.6	11.3	11.7	12.6	12.0	12.1	14.7	15.6	14.7	13.8	14.4	13.6													
MINIMUM VALUE	11.4	9.3	9.6	9.6	9.5	9.0	10.1	12.0	11.0	11.5	11.3	11.2													
RANGE	2.2	2.0	2.1	3.0	2.5	3.1	4.6	3.6	3.7	2.3	3.1	2.4													
STANDARD DEV.	0.60	0.50	0.59	0.82	0.59	0.87	1.12	1.09	1.09	0.66	0.84	0.82													
ANNUAL MIN	9.0					ANNUAL MEAN					11.80					ANNUAL MAX					15.6				

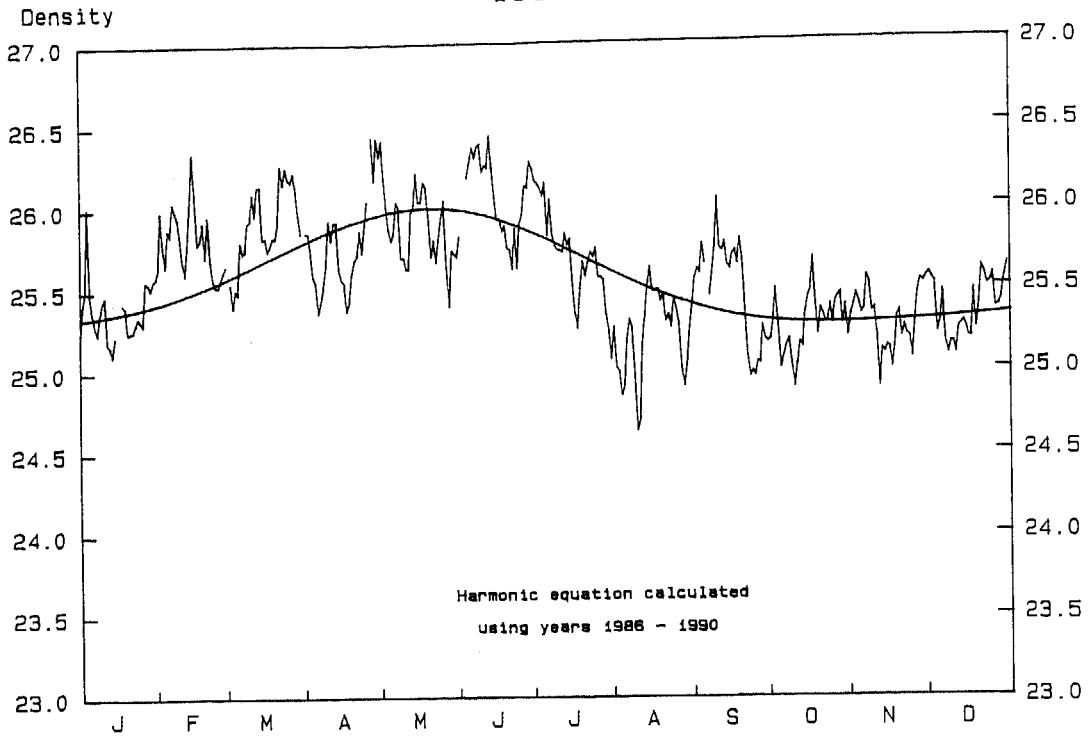
Granite Canyon, CA.



GRANITE CANYON				SALINITY								YEAR 1990		
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	33.61	33.61		33.70	34.20	33.87	34.05	33.75	33.82	33.56	33.48	33.57		
2	33.61	33.52	33.53	33.74	34.04	34.07	33.67	33.89	33.52	33.46	33.55			
3	33.65	33.70	33.39	33.61	33.92		33.95	33.78	33.83	33.70	33.51	33.54		
4	34.16	33.56	33.46	33.56	33.83	34.01	33.97	33.68	33.99	33.48	33.47	33.47		
5	33.58	33.78	33.45	33.58	33.79	34.03	34.12	33.67	33.81	33.38	33.45	33.51		
6	33.49	33.69	33.70	33.44	33.81	34.10	33.87	33.66		33.33	33.46	33.72		
7	33.42	33.88	33.57	33.51	33.96	34.02	33.57	33.65	33.58	33.31	33.55	33.49		
8	33.46	33.79	33.59	33.62	33.83	34.05	33.80	33.64	33.65	33.13	33.59	33.46		
9	33.45	33.75	33.72	33.62	33.75	34.21	33.88	33.53	33.78	33.27	33.46	33.52		
10	33.57	33.73	33.74	33.93	33.75	34.08	33.78	33.42	34.18	33.26	33.44	33.47		
11	33.66	33.59	33.92	33.71	33.71	34.00	33.87	33.40	33.80	33.36	33.43	33.46		
12	33.46	33.49	33.73	33.78	33.69	33.98	33.88	33.78	33.76	33.43	33.42	33.58		
13	33.46	33.60	33.96	33.77	33.88	34.15	33.53	33.59	33.81	33.37	33.58	33.46		
14	33.49	33.78	33.94	33.57	33.92	33.98	33.89	33.68	33.72	33.42	33.47	33.48		
15	33.51	34.07	33.72	33.51	34.16	33.94	33.89	33.76	33.69	33.51	33.42	33.41		
16		33.86	33.73	33.65	33.96	33.88	33.74	33.67	33.69	33.47	33.43	33.51		
17		33.55	33.65	33.58	33.96	33.88	33.75	33.70	33.74	33.70	33.49	33.45		
18	33.55	33.61	33.67	33.53	34.09	33.79	33.74	33.66	33.66	33.47	33.48	33.81		
19	33.52	33.79	33.69	33.66	34.07	33.86	33.79	33.64	33.74	33.34	33.71	33.48		
20	33.49	33.56	33.73	33.69	33.99	33.73	33.93	33.67	33.71	33.35	33.57	33.51		
21	33.50	33.88	33.75	33.68	33.76	33.78	33.79	33.66	33.50	33.33	33.44	33.57		
22	33.48	33.56	34.08	33.78	33.75	33.73	33.83	33.66	33.61	33.34	33.45	33.54		
23	33.51	33.47	33.93	33.66	33.67	34.10	33.86	33.66	33.59	33.32	33.48	33.47		
24	33.57	33.44	34.02	33.76	33.76	33.71	33.87	33.71	33.50	33.45	33.51	33.47		
25	33.56	33.44	33.93	33.83	33.84	33.88	33.94	33.70	33.54	33.35	33.43	33.56		
26	33.53	33.48	33.95		33.90	33.79	33.86	33.68	33.52	33.45	33.43	33.46		
27	33.56	33.53	34.02	34.31	33.70	34.03	33.83	33.95	33.95	33.47	33.50			
28	33.54	33.58	34.00	33.95	33.46	33.93	33.83	33.66	33.54	33.47	33.52	33.49		
29	33.54		33.85	34.24	33.76	34.09	33.79	33.63	33.46	33.37	33.52	33.52		
30	33.56		33.70	34.10		33.75	34.08	33.72	33.73	33.62	33.47	33.57		
31	33.56			33.73			33.74	33.65		33.40				
1-10 MEANS	33.60	33.74	33.57	33.63	33.89	34.05	33.95	33.64	33.41	33.49	33.53			
SAMPLE SIZE	10	10	9	10	10	8	10	10	9	10	10			
11-20 MEANS	33.52	33.69	33.78	33.65	33.94	33.92	33.84	33.66	33.73	33.44	33.50	33.52		
SAMPLE SIZE	8	10	10	10	10	10	10	10	10	10	10	10		
21-31 MEANS	33.54	33.55	33.92	33.92	33.73	33.91	33.82	33.67	33.53	33.40	33.47	33.52		
SAMPLE SIZE	11	8	10	9	11	10	11	11	10	11	10	10		
MONTHLY MEANS	33.55	33.67	33.76	33.73	33.85	33.95	33.87	33.66	33.70	33.42	33.49	33.52		
SAMPLE SIZE	29	28	29	29	31	28	31	31	29	31	30	30		
MAXIMUM VALUE	34.16	34.07	34.08	34.31	34.20	34.21	34.12	33.78	34.18	33.70	33.73	33.81		
MINIMUM VALUE	33.42	33.44	33.29	33.44	33.46	33.71	33.72	33.40	33.45	33.26	33.42	33.41		
RANGE	0.74	0.63	0.69	0.87	0.74	0.50	0.40	0.38	0.73	0.44	0.29	0.40		
STANDARD DEV.	0.13	0.16	0.19	0.21	0.16	0.14	0.10	0.08	0.16	0.11	0.06	0.08		
ANNUAL MIN		33.26												
ANNUAL MEAN						33.68								
ANNUAL MAX										34.31				

Granite Canyon, CA.

1990



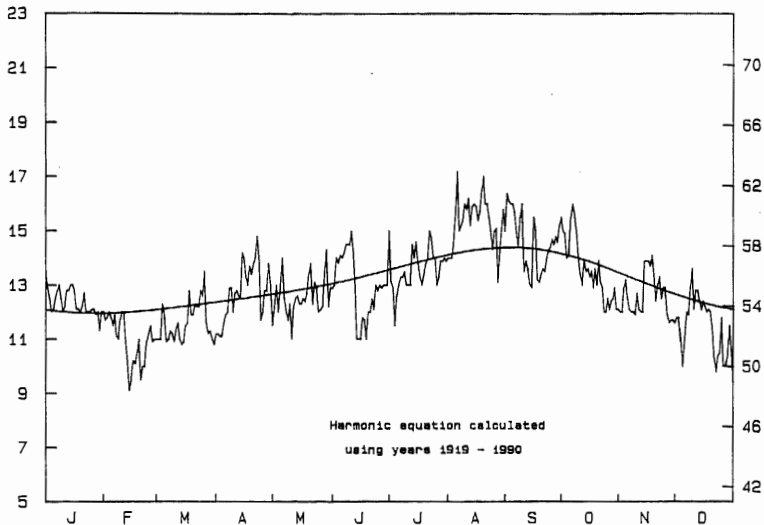
DAYS	GRANITE CANYON												SIGMA T	YEAR 1990																								
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																										
1	25.22	25.64		25.85	26.41	25.82	26.16	25.26	25.56	25.18	25.31	25.57																										
2	25.41	25.99	25.54	25.85	26.19		26.14	25.01	25.61	25.29	25.37	25.54																										
3	25.50	25.78	25.40	25.73	26.01		26.12	24.99	25.59	25.48	25.45	25.51																										
4	26.01	25.65	25.50	25.58	25.86	26.18	26.06	24.85	25.77	25.28	25.40	25.21																										
5	25.49	25.88	25.48	25.54	25.80	26.28	26.14	24.90	25.65	25.00	25.33	25.28																										
6	25.36	25.84	25.80	25.36	25.85	26.37	25.82	25.19		25.08	25.36	25.46																										
7	25.29	26.04	25.73	25.43	26.04	26.30	26.04	25.31	25.45	25.14	25.56	25.14																										
8	25.24	25.99	25.75	25.52	26.00	26.37	25.82	25.26	25.58	25.18	25.51	25.08																										
9	25.37	25.94	25.92	25.65	25.69	26.39	25.76	24.99	25.74	25.03	25.34	25.15																										
10	25.44	25.82	25.93	25.92	25.69	26.22	25.74	24.62	26.05	24.88	25.36	25.15																										
11	25.47	25.68	26.09	25.81	25.63	26.25	25.73	24.70	25.73	25.02	25.20	25.08																										
12	25.18	25.60	25.96	25.91	25.63	26.24	25.72	25.16	25.72	25.16	24.88	25.23																										
13	25.16	25.79	26.14	25.92	25.97	26.44	25.83	25.32	25.78	25.13	25.11	25.26																										
14	25.10	26.03	26.14	25.63	26.01	26.24	25.77	25.51	25.63	25.34	25.09	25.28																										
15	25.22	26.34	25.81	25.56	26.21	26.06	25.80	25.63	25.61	25.43	25.13	25.24																										
16	26.10	25.82	25.54	26.04	25.92	25.53	25.48	25.70	25.48	25.12	25.18	25.18																										
17		25.79	25.74	25.37	26.04	25.92	25.34	25.48	25.72	25.67	25.00	25.17																										
18	25.43	25.82	25.78	25.43	26.16	25.85	25.26	25.49	25.64	25.40	25.12	25.47																										
19	25.40	25.92	25.83	25.61	26.12	25.89	25.50	25.42	25.79	25.21	25.18	25.24																										
20	25.24	25.71	25.82	25.68	25.95	25.75	25.66	25.46	25.66	25.36	25.34	25.38																										
21	25.25	25.96	25.91	25.71	25.70	25.74	25.57	25.30	25.37	25.33	25.19	25.61																										
22	25.26	25.69	26.27	25.86	25.80	25.62	25.66	25.34	25.07	25.28	25.25	25.57																										
23	25.30	25.57	26.15	25.73	25.67	25.87	25.72	25.26	24.95	25.28	25.20	25.49																										
24	25.34	25.53	26.25	25.88	25.81	25.63	25.69	25.43	24.99	25.39	25.18	25.51																										
25	25.32	25.53	26.18	26.04	25.94	25.90	25.75	25.37	24.95	25.27	25.06	25.56																										
26	25.29	25.57	26.17	26.04	26.04	25.96	25.57	25.27	25.04	25.40	25.28	25.36																										
27	25.56	25.61	26.22	26.43	25.64	26.13	25.57	25.00	25.03	25.44	25.46	25.37																										
28	25.55	25.65	26.12	26.17	25.39	26.12	25.55	24.90	25.26	25.46	25.33	25.42																										
29	25.51		25.97	26.43	25.74	26.28	25.34	25.02	25.18	25.27	25.51	25.54																										
30	25.56		25.85	26.32	25.72	26.23	25.24	25.25	25.16	25.38	25.55	25.63																										
31	25.58				25.70		25.07	25.39		25.19																												
1-10 MEANS	25.43	25.86	25.67	25.64	25.95	26.24	25.98	25.04	25.66	25.15	25.40	25.31																										
SAMPLE SIZE	10	10	9	10	10	8	10	10	9	10	10	10																										
11-20 MEANS	25.28	25.88	25.91	25.65	25.98	26.06	25.61	25.36	25.70	25.32	25.13	25.25																										
SAMPLE SIZE	8	10	10	10	10	10	10	10	10	10	10	10																										
21-31 MEANS	25.41	25.64	26.11	26.06	25.74	25.95	25.52	25.23	25.10	25.34	25.32	25.51																										
SAMPLE SIZE	11	8	10	9	11	10	11	11	10	11	10	10																										
MONTHLY MEANS	25.38	25.80	25.91	25.77	25.89	26.07	25.70	25.21	25.48	25.27	25.28	25.36																										
SAMPLE SIZE	29	28	29	29	31	28	31	31	29	31	30	30																										
MAXIMUM VALUE	26.01	26.34	26.27	26.43	26.41	26.44	26.16	25.63	26.05	25.67	25.56	25.63																										
MINIMUM VALUE	25.10	25.53	25.40	25.36	25.39	25.62	25.07	24.62	24.95	24.88	24.88	25.08																										
RANGE	0.91	0.82	0.87	1.07	1.02	0.81	1.09	1.00	1.10	0.79	0.67	0.55																										
STANDARD DEV.	0.18	0.20	0.24	0.29	0.22	0.24	0.28	0.25	0.31	0.17	0.18	0.17																										
ANNUAL MIN	24.62												ANNUAL MEAN	25.59												ANNUAL MAX	26.44											

Pacific Grove, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



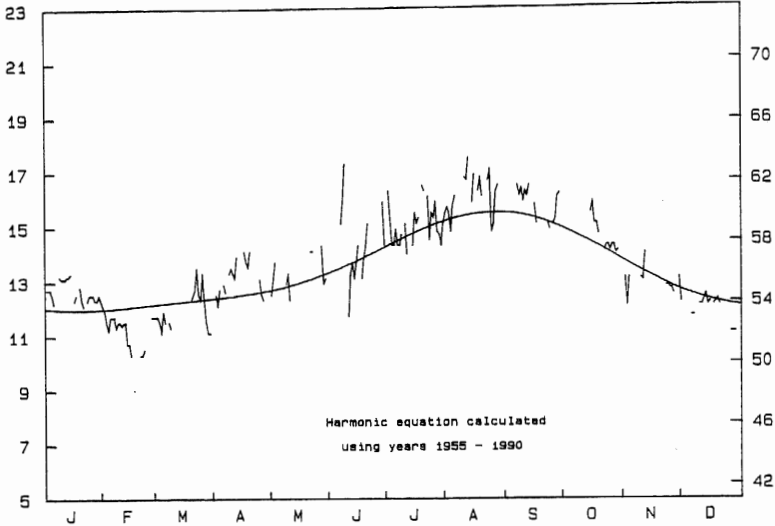
DAYS	PACIFIC GROVE											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.5	11.7	11.0	11.2	12.2	13.0	13.1	14.0	16.4	15.0	12.0	11.8
2	12.9	11.8	11.0	11.1	13.0	14.0	12.9	14.0	16.1	14.9	12.0	11.8
3	12.5	12.0	12.3	11.1	12.0	13.8	11.5	14.5	16.0	14.0	12.9	11.0
4	12.0	11.8	11.9	11.6	12.9	14.1	12.6	15.6	16.0	14.1	13.2	10.0
5	12.1	11.5	10.9	11.9	14.0	14.0	13.0	17.2	15.7	15.5	12.5	11.0
6	12.5	11.9	11.0	12.0	12.5	14.2	13.3	15.0	15.0	16.0	12.1	12.0
7	12.8	11.1	11.3	12.9	12.0	14.5	13.3	15.2	14.4	15.6	12.0	11.9
8	13.0	11.0	11.2	12.9	11.7	14.5	13.5	15.4	15.3	15.0	12.0	12.9
9	12.5	11.7	10.9	12.0	12.3	14.5	13.0	16.0	16.0	14.0	11.9	13.6
10	12.0	12.0	11.4	12.7	11.8	15.0	13.0	15.8	13.5	13.4	12.7	12.1
11	12.2	12.0	11.6	12.8	12.2	14.3	13.0	16.2	13.9	13.0	12.1	12.8
12	12.8	11.0	11.0	12.6	12.6	13.0	14.5	15.2	13.6	13.9	12.0	12.8
13	12.8	10.2	10.8	12.5	12.6	11.0	14.0	15.9	13.0	13.5	12.0	12.4
14	13.0	9.1	10.9	14.2	12.3	11.0	14.6	16.0	12.9	13.6	13.9	12.1
15	13.0	9.5	11.5	14.0	12.3	11.0	13.8	15.9	15.3	13.3	13.9	12.4
16	12.8	10.2	11.6	13.3	12.5	11.8	13.3	15.4	15.0	13.5	13.9	12.2
17	12.1	10.1	12.8	13.0	12.4	11.7	13.0	15.7	13.2	12.9	13.7	12.0
18	12.1	10.5	11.9	13.7	12.7	11.0	13.4	16.5	13.1	13.6	14.1	12.1
19	12.0	11.0	11.9	13.4	13.4	12.0	13.8	17.0	13.4	13.0	13.4	12.0
20	12.2	9.5	12.3	13.8	13.8	12.0	14.0	16.0	13.8	13.9	12.4	11.4
21	12.7	10.0	12.2	14.0	12.3	12.5	15.0	16.0	13.5	13.1	13.0	10.3
22	12.0	10.0	12.2	14.8	13.1	12.1	14.7	15.5	14.0	12.9	13.3	9.8
23	12.0	10.9	12.8	14.0	12.9	13.0	14.0	15.0	14.3	12.0	12.5	10.4
24	12.0	11.2	12.6	11.7	12.0	12.8	14.0	14.3	14.4	12.0	12.9	10.5
25	12.1	11.5	13.5	12.0	12.1	13.0	13.0	15.0	14.7	12.5	12.9	11.8
26	12.1	10.9	11.6	12.8	12.2	12.9	13.3	15.1	14.5	12.1	11.9	10.0
27	11.9	11.0	11.2	12.8	13.4	13.0	13.9	13.1	14.8	12.4	11.6	11.0
28	12.0	11.0	11.3	13.8	14.3	13.0	13.9	14.1	14.6	12.5	11.7	10.4
29	11.3	11.0	13.0	12.2	13.0	14.0	15.0	15.2	12.9	11.7	11.5	11.5
30	12.0	10.8	11.5	12.9	15.0	13.9	15.8	15.5	12.1	11.6	10.6	10.6
31	12.0	11.2	11.2	12.9	13.1	14.0	15.0	15.0	12.1	11.6	9.4	9.4
1-10 MEANS	12.58	11.65	11.29	11.94	12.36	14.16	12.92	15.27	15.46	14.75	12.33	11.81
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
11-20 MEANS	12.50	10.31	11.63	13.33	12.67	11.88	13.74	15.98	13.72	13.42	13.14	12.22
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	12.01	10.81	11.85	13.04	12.75	13.04	13.97	14.90	14.55	12.42	12.31	10.43
SAMPLE SIZE	11	8	11	10	11	11	11	11	11	10	11	11
MONTHLY MEANS	12.33	10.93	11.60	12.77	12.60	13.03	13.56	15.37	14.58	13.49	12.58	11.40
SAMPLE SIZE	31	28	31	30	31	31	31	31	31	30	31	31
MAXIMUM VALUE	13.5	12.0	13.5	14.8	14.3	15.0	15.0	17.2	16.4	16.0	14.1	13.6
MINIMUM VALUE	11.3	9.1	10.8	11.1	11.0	11.0	11.5	13.1	12.9	12.0	11.6	9.4
RANGE	2.2	2.9	2.7	3.7	3.3	4.0	3.5	4.1	3.5	4.0	2.5	4.2
STANDARD DEV.	0.47	0.84	0.70	1.01	0.69	1.21	0.71	0.89	1.05	1.12	0.78	1.07
ANNUAL MIN	9.1											
ANNUAL MEAN	12.86											
ANNUAL MAX	17.2											

Santa Cruz, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



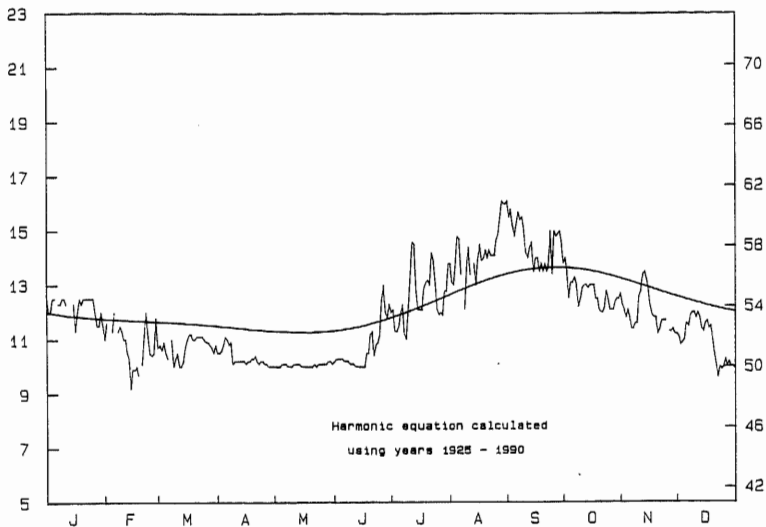
DAYS	SANTA CRUZ											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		12.1	11.7		12.5			15.5	16.6	16.1		12.2
2	12.7	11.9	11.7	12.5	13.1		16.3	15.7			13.1	
3	12.7	11.5	11.5	12.1	13.7		15.3	15.5			12.1	
4	12.7	11.2	11.1	12.7			14.3	14.8	16.9		13.1	11.7
5	12.5	11.7	11.9			12.5	14.3	15.8				
6	12.2	11.7	11.5	12.9			14.8	16.1				11.7
7		11.7		12.6	14.3		15.1	14.3		16.5		11.7
8		11.3	11.5				15.9	14.3		16.1		
9	13.2	11.5	11.3		12.9		14.8	14.9	16.6	16.4	15.7	
10	13.1	11.5		13.3	13.3		13.3	14.7		15.9		13.1
11	13.1	11.4		13.3	12.3		11.7	15.1	16.8	16.3	15.7	13.0
12	13.1	11.5		13.1			17.3	14.0	16.7	16.1	14.0	12.3
13	13.2	11.5		13.9			13.7	17.5	16.5			12.5
14	13.2	10.7			13.1		13.1			15.5		12.1
15	13.2	10.7			13.1		13.7	14.3	15.9	15.9		12.2
16		10.3			13.5		14.3	15.5	16.9	15.8	15.9	
17	12.3		14.3	14.1			15.1	16.5		15.1	15.1	12.1
18	12.5	10.4		13.7			15.3	16.3		15.1	14.7	12.2
19				13.5			13.9	16.8		15.1		12.3
20	12.8		12.3	14.1			14.3	16.5		14.7		12.2
21	12.3	10.3	12.5				15.1	16.3			13.1	
22	12.1	10.3	12.7		14.1		14.3	16.1	16.7	15.1	14.1	12.8
23		10.5	13.5		14.1		4	8	7	14.3	14.3	12.8
24	12.3		12.5				14.5	17.1	14.9	14.3	12.8	
25	12.8	11.4	12.3	13.1		13.1	15.3	14.8		14.1	12.7	
26	12.5		13.3	12.5			15.3	15.1	15.1	14.3	12.7	
27	12.5	11.7	12.3	12.3			15.9	16.3	15.3	14.3	12.5	11.1
28	12.3	11.7	11.5				14.3	16.5	16.1	14.0	11.1	11.1
29	12.3		11.1		14.3		12.9	14.7		16.2	14.1	
30	12.5				13.1		14.3	14.3				13.1
31	12.3		11.1				14.2	15.1		13.7		
1-10 MEANS	12.73	11.61	11.53	12.80	13.30	15.20	14.80	15.71	16.40	15.90	12.85	11.88
SAMPLE SIZE	7	10	8	7	7	3	4	8	6	6	4	2
11-20 MEANS	12.94	10.93	13.30	13.67	12.97	13.46	15.11	16.63	15.96	15.33	13.23	12.21
SAMPLE SIZE	8	7	2	7	3	9	7	8	6	6	3	9
21-31 MEANS	12.36	10.98	12.28	12.63	13.70	14.48	15.25	16.08	15.45	14.13	12.81	11.10
SAMPLE SIZE	10	6	10	3	5	4	8	10	6	9	7	3
MONTHLY MEANS	12.45	11.24	12.08	13.13	13.37	14.15	15.07	16.17	15.94	14.76	12.91	11.92
SAMPLE SIZE	25	23	20	17	14	19	25	21	17	17	14	17
MAXIMUM VALUE	13.3	12.1	14.3	14.1	14.3	17.3	16.5	17.5	16.9	16.1	14.0	12.5
MINIMUM VALUE	12.1	10.3	11.1	12.1	12.3	11.7	14.0	14.8	14.9	13.7	12.1	11.1
RANGE	1.2	1.8	3.2	2.0	2.0	5.6	2.5	2.7	2.0	2.4	1.9	1.4
STANDARD DEV.	0.37	0.57	0.87	0.62	0.65	1.32	0.73	0.74	0.62	0.77	0.43	0.45
ANNUAL MIN	10.3											
ANNUAL MEAN	13.62											
ANNUAL MAX	17.5											

Farallon Islands, CA.

Degrees
Centigrade

1990

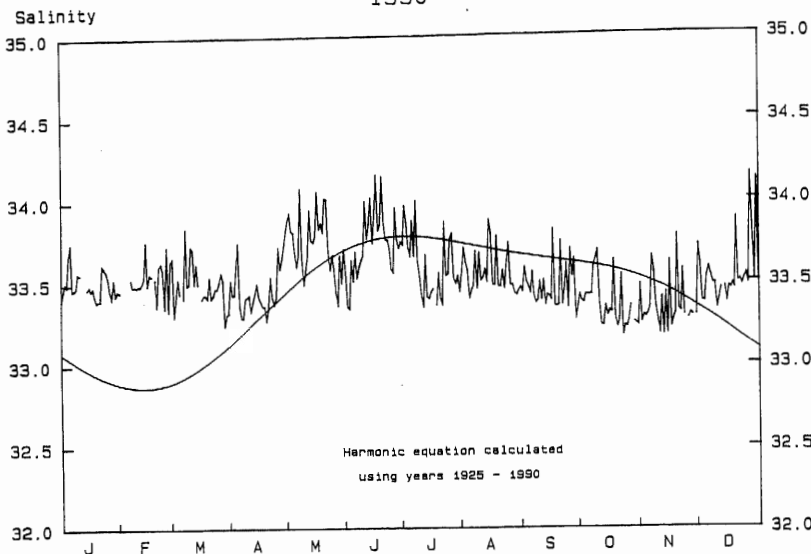
Degrees
Fahrenheit



DAYS	FARALLON ISLANDS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	12.5	11.6	10.8	10.5	10.0	10.3	12.1	13.1	15.5	14.0	12.3	11.1	
2	12.0	10.6	10.6	10.6	10.0	10.3	11.3	13.0	15.8	13.5	12.1	10.8	
3	12.0	10.9	10.9	10.8	10.0	10.3	11.3	13.8	15.2	12.5	11.8	10.9	
4	12.3	11.3	10.5	11.1	10.1	10.3	11.5	14.8	14.8	13.1	12.1	11.0	
5	12.3	12.0	10.3	11.0	10.1	10.2	12.0	14.7	15.3	13.1	11.8	11.6	
6				10.8	10.1	10.2	12.3	13.4	15.7	13.3	11.4	11.5	
7	12.3	11.3	11.0	10.9	10.0	10.2	11.2	15.4	15.4	13.0	11.4	11.9	
8	12.3	11.5	10.0	10.1	10.0	10.1	11.0	12.1	13.5	12.2	11.6	12.0	
9	12.5	11.3	10.3	10.2	10.0	10.1	12.1	13.6	15.0	12.5	11.6	12.0	
10	12.5	11.0	10.5	10.2	10.1	10.3	13.3	14.4	14.2	13.9	12.6	11.8	
11	12.3	11.0	10.0	10.2	10.1	10.0	14.6	13.4	14.0	13.0	12.8	12.0	
12		10.5	10.0	10.2	10.1	10.0	14.5	14.4	13.0	13.4	11.8		
13		10.3	10.2	10.2	10.1	10.0	12.8	13.8	14.6	12.9	13.5	11.4	
14		9.2	10.7	10.2	10.0	10.0	12.1	13.0	13.5	13.0	13.2	11.3	
15	12.3	9.9	11.0	10.1	10.0	10.0	12.1	14.0	14.0	13.0	12.8	11.6	
16	11.3	9.9	11.2	10.2	10.0	10.0	12.1	14.5	14.0	13.0	12.2	11.7	
17	12.0	10.0	11.2	10.2	10.0	10.5	12.9	13.9	13.5	12.9	11.9	11.4	
18	12.3	9.7	11.0	10.3	10.0	10.5	13.1	14.0	13.8	12.5	11.8	11.5	
19	12.3		11.0	10.3	10.0	11.2	13.2	14.3	13.5	12.1	11.8	11.0	
20	12.5	10.1	11.1	10.4	10.0	11.3	13.0	14.0	13.8	12.0	11.2	10.5	
21	12.5	11.1	11.1	10.2	10.1	10.4	14.2	14.3	13.5	12.0	11.4	10.1	
22	12.5	12.0	11.1	10.1	10.0	10.8	13.9	14.1	13.8	12.2	11.7	9.6	
23	12.5	11.2	11.1	10.2	10.1	10.9	13.1	14.3	15.0	12.8	11.7	10.0	
24	12.5	10.5	11.0	10.2	10.1	11.2	12.1	14.1	13.4	12.5	11.7	9.9	
25	12.5	10.4	10.9	10.1	10.1	12.5	11.9	14.7	15.0	12.1		10.0	
26	12.0	10.5	10.9	10.1	10.1	13.0	12.0	14.9	14.8	12.1	11.3	10.3	
27	11.5	11.8	10.8	10.0	10.1	12.0	11.9	15.5	14.9	11.1	11.3	10.0	
28	11.5	10.7	10.7	10.0	10.2	11.8	12.8	16.1	15.0	12.4	11.4	10.2	
29	12.0	10.5	10.0	10.2	10.2	12.3	12.8	16.0	14.6	12.5	11.2	10.0	
30	11.5		10.8	10.0	10.1	12.0		13.8	16.0	13.8	12.5	11.2	10.0
31	11.0		10.5		10.2		13.8	16.1		12.7		9.9	
1-10 MEANS	12.34	11.43	10.54	10.62	10.04	10.21	11.81	13.66	15.24	13.01	11.87	11.46	
SAMPLE SIZE	9	7	9	10	10	10	10	9	10	10	10	10	
11-20 MEANS	12.17	10.07	10.74	10.23	10.03	10.35	13.04	13.88	13.91	12.70	12.46	11.42	
SAMPLE SIZE	7	9	10	10	10	10	10	9	10	10	10	10	
21-31 MEANS	12.00	11.03	10.85	10.09	10.12	11.69	12.94	15.08	14.38	12.35	11.43	10.00	
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	9	11	
MONTHLY MEANS	12.16	10.78	10.72	10.31	10.06	10.75	12.61	14.27	14.51	12.68	11.94	10.93	
SAMPLE SIZE	27	24	30	30	31	30	31	29	30	31	29	31	
MAXIMUM VALUE	12.5	12.0	11.2	11.1	10.2	13.0	14.6	16.1	15.8	14.0	13.5	12.0	
MINIMUM VALUE	11.0	9.2	10.0	10.0	10.0	10.0	11.0	12.1	13.4	12.0	11.2	9.6	
RANGE	1.5	2.8	1.2	1.1	0.2	3.0	3.6	4.0	2.4	2.0	2.3	2.4	
STANDARD DEV.	0.44	0.76	0.37	0.31	0.07	0.87	0.98	0.99	0.75	0.48	0.67	0.79	
ANNUAL MIN		9.2											
ANNUAL MEAN						11.81							
ANNUAL MAX									16.1				

Farallon Islands, CA.

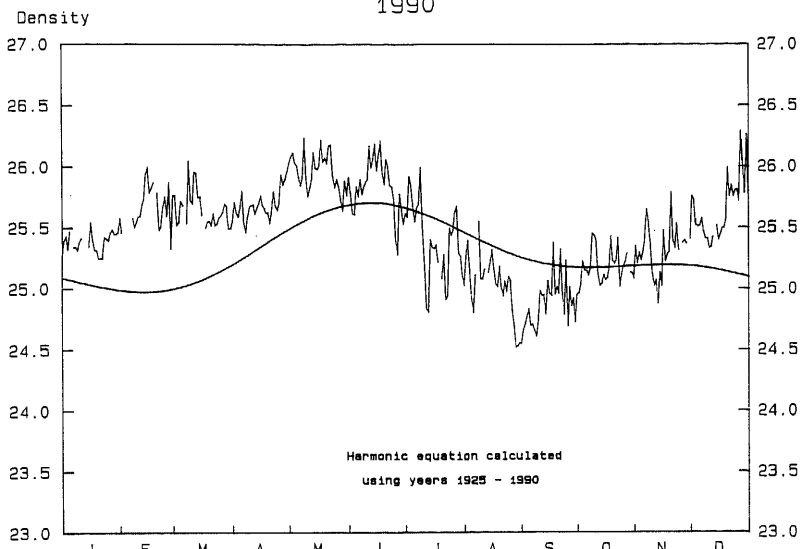
1990



DAYS	FARALLON ISLANDS												YEAR 1990
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	33.40	33.45	33.66	33.52	33.89	33.57	33.73	33.56	33.44	33.42	33.48	33.72	
2	33.46		33.30	33.43	33.93	33.35	33.97	33.71	33.59	33.38	33.25	33.61	
3	33.51		33.40	33.43	33.82	33.34	33.87	33.62	33.50	33.37	33.29	33.37	
4	33.49		33.53	33.60	33.81	33.64	33.71	33.67	33.47	33.42	33.28	33.37	
5	33.68	33.40	33.44	33.75	33.69	33.51	33.66	33.40	33.43	33.42	33.30	33.53	
6	33.75			33.36	33.60	33.69	33.88	33.45	33.56	33.42	33.34	33.58	
7	33.46	33.53	33.41	33.29	33.67	33.53	33.66	33.48	33.41	33.42	33.65	33.53	
8	33.47	33.48	33.84	33.29	34.08	33.60	34.00	33.69	33.37	33.59	33.54	33.48	
9	33.48	33.49	33.49	33.41	33.66	33.64	33.62	33.46	33.39	33.64	33.34	33.44	
10	33.57	33.49	33.50	33.42	33.49	33.67	33.53	33.68	33.50	33.69	33.26	33.33	
11	33.56	33.49	33.73	33.43	33.58	34.00	33.41	33.51	33.19	33.36	33.18	33.39	
12		33.49	33.71	33.33	33.67	33.77	33.35	33.51	33.23	33.40		33.45	
13		33.51	33.50	33.39	33.95	33.86	33.67	33.58	33.36	33.23	33.17		
14		33.54	33.62	33.44	33.76	34.02	33.41	33.50	33.42	33.35	33.43	33.46	
15	33.47	33.76	33.50	33.50	33.75	33.74	33.40	33.88	33.41	33.29	33.18	33.37	
16	33.49	33.49		33.42	33.79	33.91	33.44	33.60	33.39	33.32	33.62	33.46	
17	33.46	33.56		33.39	34.06	34.16	33.46	33.48	33.82	33.31	33.22	33.45	
18	33.48	33.55	33.43	33.36	33.83	33.82		33.48	33.35	33.63	33.27	33.48	
19	33.43	33.53	33.43	33.36	33.87	33.86	33.36	33.78	33.35	33.27	33.30	33.45	
20	33.39	33.53	33.41	33.27	33.81	34.15	33.56	33.47	33.36	33.22	33.78	33.88	
21	33.40	33.36	33.54	33.36	34.02	33.86	33.40	33.47	33.75	33.26	33.32	33.49	
22	33.40	33.61	33.41	33.84	34.01	33.76	33.38	33.67	33.36	33.54	33.31	33.50	
23	33.62	33.63	33.43	33.41	33.70	33.76	33.87	33.46	33.46	33.17	33.57	33.47	
24	33.60	33.58	33.47	33.37	33.58	33.71	33.54	33.62	33.61	33.23	33.29	33.51	
25	33.58	33.35	33.47	33.42	33.87	33.84	33.55	33.74	33.34	33.22	33.84		
26	33.54	33.73	33.51	33.72	33.59	33.56	33.77	33.48	33.70	33.26	33.27	33.48	
27	33.46	33.33	33.57	33.69	33.44	33.96	33.80	33.48	33.53	33.35	33.30	33.15	
28	33.41	33.64	33.52	33.65	33.36	33.76	33.52	33.43	33.64			33.84	
29	33.53		33.24	33.73	33.67	33.71	33.49	33.42	33.27	33.25		33.50	
30	33.43		33.31	33.82	33.50	33.75	33.54	33.45	33.35	33.24	33.12		
31	33.48		33.32		33.71		33.44	33.47		33.23	33.29	33.13	
1-10 MEANS	33.53	33.49	33.51	33.45	33.76	33.55	33.76	33.56	33.47	33.48	33.38	33.50	
SAMPLE SIZE	10	6	9	10	10	10	10	10	10	10	10	10	
11-20 MEANS	33.47	33.55	33.53	33.39	33.81	33.93	33.45	33.60	33.44	33.32	33.35	33.64	
SAMPLE SIZE	7	9	9	10	10	10	9	10	10	10	10	9	
21-31 MEANS	33.49	33.53	33.44	33.56	33.66	33.74	33.57	33.51	33.50	33.28	33.33	33.49	
SAMPLE SIZE	11	8	11	10	11	11	11	11	10	10	8	11	
MONTHLY MEANS	33.50	33.52	33.49	33.47	33.74	33.74	33.60	33.56	33.47	33.36	33.36	33.55	
SAMPLE SIZE	28	23	29	30	31	30	30	31	30	30	28	30	
MAXIMUM VALUE	33.75	33.76	33.84	33.82	34.08	34.16	34.00	33.88	33.82	33.69	33.78	34.15	
MINIMUM VALUE	33.39	33.33	33.24	33.27	33.36	33.34	33.35	33.40	33.27	33.17	33.17	33.33	
RANGE	0.36	0.43	0.60	0.55	0.72	0.82	0.65	0.48	0.55	0.52	0.61	0.82	
STANDARD DEV.	0.09	0.11	0.13	0.15	0.18	0.20	0.19	0.12	0.13	0.14	0.15	0.20	
ANNUAL MIN		33.17				33.53					34.16		
ANNUAL MEAN													
ANNUAL MAX													

Farallon Islands, CA.

1990



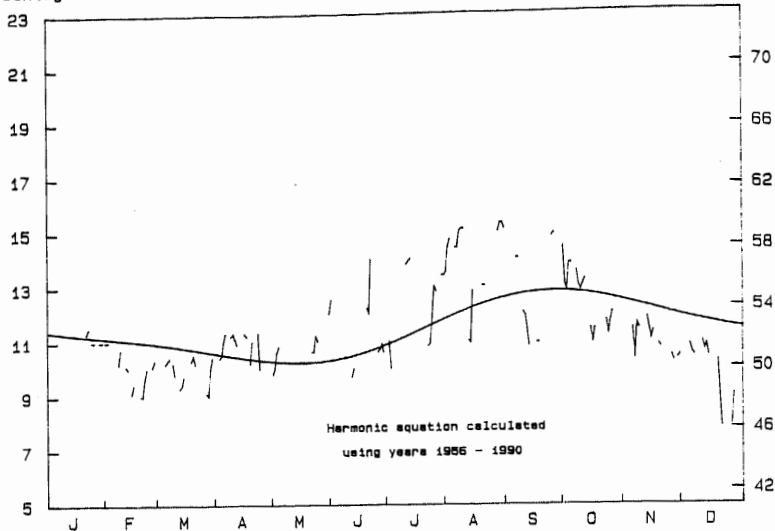
DAYS	FARALLON ISLANDS												SIGMA T
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	25.25	25.46	25.77	25.71	26.09	25.78	25.58	25.26	24.66	24.97	25.35	25.76	
2	25.39	25.52	25.62	26.12	25.61	25.92	25.39	24.71	25.04	25.21	25.73		
3	25.43	25.55	25.59	26.03	25.61	25.84	25.16	24.77	25.73	25.30	25.52		
4	25.32	25.72	25.67	26.01	25.84	25.68	24.91	24.84	25.15	25.24	25.51		
5	25.47	25.41	25.68	25.80	25.91	25.76	25.55	24.80	24.70	25.15	25.31	25.52	
6			25.53	25.84	25.90	25.66	25.11	24.71	25.11	25.41	25.58		
7	25.34	25.58	25.54	25.46	25.91	25.77	25.70	24.66	25.11	25.65	25.47		
8	25.34	25.50	26.05	25.60	26.23	25.84	26.00	25.55	24.81	25.44	25.55	25.41	
9	25.31	25.55	25.72	25.68	25.91	25.87	25.50	25.08	24.73	25.44	25.37	25.41	
10	25.38	25.59	25.70	25.89	25.76	25.90	25.19	25.08	24.99	25.60	25.12	25.33	
11	25.41	25.60	25.96	25.69	25.83	26.17	24.83	25.16	24.94	25.11	25.02	25.34	
12		25.69	25.95	25.61	25.90	25.99	24.81		24.95	25.02	25.07	25.42	
13		25.74	25.75	25.66	26.12	26.06	25.40	25.13	24.79	25.04	24.88		
14		25.94	25.75	25.70	25.98	26.19	25.34	25.23	25.07	25.12	25.14	25.52	
15	25.34	26.00	25.61	25.76	25.98	25.97	25.33	25.32	24.96	25.07	25.02	25.40	
16	25.55	25.79	25.55	25.68	26.01	26.10	25.36	25.16	24.94	25.09	25.48	25.45	
17	25.39	25.83	25.50	25.66	26.22	26.21	25.22	25.03	25.38	25.18	25.23	25.50	
18	25.31	25.87	25.55	25.62	26.04	25.95	25.01	24.95	25.43	25.28	25.50		
19	25.31	25.87	25.55	25.62	26.07	25.85	25.08	25.18	25.02	25.23	25.31	25.67	
20	25.24	25.79	25.52	25.53	26.02	26.06	25.28	25.31	24.96	25.11	25.29	25.99	
21	25.25	25.48	25.62	25.84	26.17	25.99	24.91	24.94	25.32	25.44	25.40	25.76	
22	25.25	25.51	25.52	25.80	26.18	25.85	24.94	25.06	24.96	25.43	25.33	25.85	
23	25.42	25.67	25.54	25.68	25.92	25.83	25.50	24.98	24.79	25.02	25.50	25.76	
24	25.41	25.76	25.58	25.65	25.83	25.74	25.44	25.10	25.24	25.12	25.32	25.81	
25	25.39	25.60	25.60	25.70	25.90	25.39	25.48	25.07	24.69	25.19		25.81	
26	25.46	25.88	25.63	25.94	25.83	25.28	25.63	24.82	25.01	25.22	25.38	25.71	
27	25.49	25.33	25.70	25.85	25.72	25.78	25.68	24.69	24.86	25.19	25.40	25.89	
28	25.45	25.77	25.68	25.90	25.64	25.66	25.29	24.52	24.92		25.37	26.01	
29	25.45	25.96	25.68	25.96	25.88	25.53	25.26	24.53	24.73	25.14		25.78	
30	25.46	25.50	26.03	25.76	25.76	25.62	25.10	24.56	24.95	25.13	25.17	25.77	
31	25.58		25.56		25.91		25.02	24.55		25.08		25.74	
1-10 MEANS	25.36	25.51	25.69	25.64	25.98	25.79	25.66	25.15	24.74	25.21	25.35	25.52	
SAMPLE SIZE	9	6	9	10	10	10	10	9	10	10	10	10	
11-20 MEANS	25.37	25.81	25.68	25.66	26.02	26.06	25.18	25.14	25.00	25.15	25.22	25.52	
SAMPLE SIZE	7	9	9	10	10	10	9	9	10	10	10	9	
21-31 MEANS	25.42	25.62	25.58	25.81	25.89	25.67	25.30	24.80	24.95	25.18	25.39	25.89	
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	10	10	11	
MONTHLY MEANS	25.39	25.67	25.65	25.70	25.96	25.84	25.38	25.01	24.89	25.18	25.32	25.66	
SAMPLE SIZE	27	23	29	30	31	30	29	29	30	30	28	30	
MAXIMUM VALUE	25.58	26.00	26.05	26.03	26.23	26.21	26.00	25.55	25.38	25.46	25.79	26.29	
MINIMUM VALUE	25.24	25.33	25.49	25.46	25.64	25.28	24.81	24.52	24.61	24.97	24.88	25.33	
RANGE	0.33	0.67	0.55	0.57	0.60	0.93	1.19	1.03	0.77	0.49	0.91	0.96	
STANDARD DEV.	0.09	0.18	0.14	0.13	0.15	0.22	0.31	0.26	0.19	0.13	0.20	0.25	
ANNUAL MIN	24.52												
ANNUAL MEAN	25.47												
ANNUAL MAX	26.29												

Bodega Bay, CA.

Degrees
Centigrade

1990

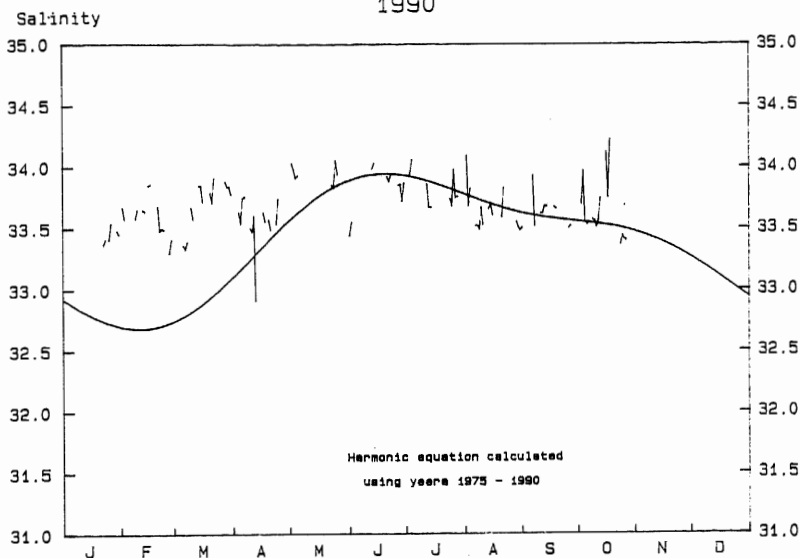
Degrees
Fahrenheit



DAYS	BODEGA BAY											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		11.0				9.8		13.5		14.4		
2		11.0				12.5		14.4		13.0		
3						10.0	11.0	14.4		12.8		
4						10.5	10.0	14.7		12.8		
5						10.8			12.9			
6			10.2	11.0				14.4	14.0		11.4	10.8
7			10.3	11.3				14.4	14.0		10.3	10.4
8			10.4		10.0			15.0		13.5		
9		10.2		11.2	11.0			15.1		13.0		
10		10.7		11.3				15.1	12.0		11.4	
11				11.1	11.1			15.1	11.9	13.0		10.9
12		10.1		10.9		9.7	13.8		11.4	13.2		10.6
13		10.0	9.3			10.0	14.0	11.0	10.8			10.8
14			9.4		10.7			10.9			11.4	10.4
15			9.7					12.8			11.0	
16		9.1								11.4		
17		9.4		11.3	9.4		13.4			10.9	11.3	10.6
18				11.2				12.8	10.9	11.4		
19			10.3	10.2		9.9	10.0				10.8	10.2
20		9.0	10.5	11.0			12.2		13.0		10.7	10.2
21		9.0	10.2				12.0					9.8
22			9.6		10.6		14.0					
23	11.3				11.3		10.8			11.7		
24	11.5	10.0			10.8		10.9			11.2		
25				10.0	11.0				14.8	11.7		7.3
26	11.0			10.2		10.6	11.8		14.9	12.0	10.4	
27	11.0	10.1			11.0	10.7	12.8				10.2	9.0
28		10.0				10.9		15.0				
29	11.0	10.0			11.4	10.8		15.3	13.8			
30	11.0		9.1							11.2	10.3	
31		10.4			12.0		13.4	13.3			10.4	
							13.4	15.1				
1-10 MEANS		10.73	10.18	10.95	10.37	12.50	10.50	14.57	13.23	13.39	11.18	10.57
SAMPLE SIZE		4	5	6	6	1	2	8	4	8	4	3
11-20 MEANS		9.52	9.84	10.95	10.28	10.48	13.78	12.10	11.18	11.98	11.17	10.36
SAMPLE SIZE		5	5	6	4	4	4	5	5	5	6	7
21-31 MEANS	11.13	9.80	9.74	10.50	11.13	11.47	12.30	14.74	14.50	11.56	10.33	8.23
SAMPLE SIZE	6	5	5	3	6	6	7	5	3	5	4	3
MONTHLY MEANS	11.13	9.96	9.92	10.86	10.63	11.20	12.48	13.93	12.69	12.49	10.93	9.92
SAMPLE SIZE	6	14	15	15	16	11	13	18	12	18	14	13
MAXIMUM VALUE	11.5	11.0	10.5	11.3	12.0	14.0	14.0	15.3	14.9	14.4	11.8	10.9
MINIMUM VALUE	11.0	9.0	9.0	10.0	9.4	9.7	10.0	10.9	10.8	10.9	10.2	7.8
RANGE	0.5	2.0	1.5	1.3	2.6	4.3	4.0	4.4	4.1	3.5	1.6	3.1
STANDARD DEV.	0.22	0.68	0.50	0.47	0.68	1.32	1.39	1.41	1.56	1.07	0.55	1.10
ANNUAL MIN		7.8										
ANNUAL MEAN						11.35						
ANNUAL MAX										15.3		

Bodega Bay, CA.

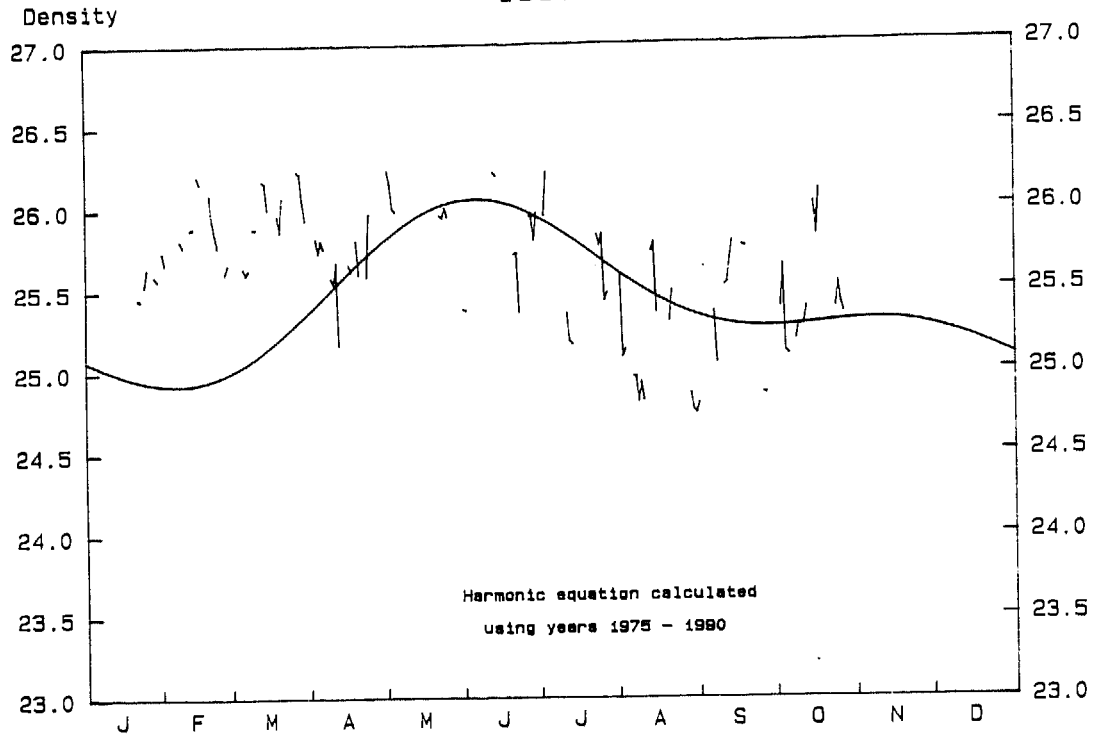
1990



DAYS	BODEGA BAY										YEAR 1990	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	ADG	SEP	OCT		NOV
1		33.67			34.03	33.55		34.09				
2		33.58			33.98		33.94	33.68			33.70	
3				33.63	33.91		34.06	33.82			33.97	
4				33.54	33.93				33.57		33.55	
5			33.36	33.75							33.55	
6			33.33	33.76				33.52	33.93		33.53	
7			33.39		33.97			33.52	33.92			
8		33.58						33.52	33.52		33.57	
9		33.65	33.67	33.50	33.90			33.67			33.56	
10			33.58	33.47				33.52	33.62		33.51	
11				33.60	34.13		33.86		33.62		33.56	
12		33.65		32.91		33.99	33.67		33.68		33.74	
13		33.64	33.85			34.03	33.67	33.66				
14			33.85		33.94			33.70			34.12	
15			33.72					33.68			33.75	
16				33.63	34.20		33.72				34.22	
17				33.56		33.95		33.63	33.67			
18								33.63	33.66			
19			33.79	33.57		33.93						
20		33.68	33.71	33.49		33.92		33.59				
21		33.48	33.91			33.88		33.83				
22		33.37	33.50		33.85	33.93						
23	33.41	33.49		33.54	33.83		33.74				33.37	
24				33.74	34.05			33.88			33.44	
25	33.41			33.94				33.98		33.50	33.41	
26	33.54	33.30		33.26		33.85		33.75	33.52	33.41		
27		33.41	33.88			33.86		33.76		33.43	33.40	
28			33.84			33.72		33.55	33.26			
29	33.48		33.84		33.67	33.67		33.48			33.40	
30	33.45		33.78				33.66	33.48				
31				33.44			34.420	33.50				
1-10 MEANS		33.62	33.47	33.61	33.95	33.55	34.00	33.67	33.66	33.63		
SAMPLE SIZE		4	5	6	6	1	2	8	4	7		
11-20 MEANS		33.74	33.78	33.46	34.06	33.97	33.73	33.64	33.66	33.88		
SAMPLE SIZE		5	5	8	4	4	4	5	5	5		
21-31 MEANS	33.44	33.44	33.85	33.85	33.80	33.85	33.76	33.57	33.43	33.40		
SAMPLE SIZE	6	5	5	3	6	6	6	5	3	5		
MONTHLY MEANS	33.44	33.60	33.70	33.60	33.92	33.87	33.79	33.63	33.60	33.64		
SAMPLE SIZE	6	14	15	15	16	11	12	18	12	17		
MAXIMUM VALUE	33.54	33.86	33.91	34.26	34.20	34.03	34.06	34.09	33.93	34.22		
MINIMUM VALUE	33.37	33.30	33.33	32.91	33.44	33.55	33.66	33.48	33.26	33.37		
RANGE	0.17	0.56	0.58	1.35	0.76	0.48	0.40	0.61	0.67	0.85		
STANDARD DEV.	0.06	0.15	0.20	0.27	0.18	0.13	0.14	0.16	0.16	0.25		

Bodega Bay, CA.

1990



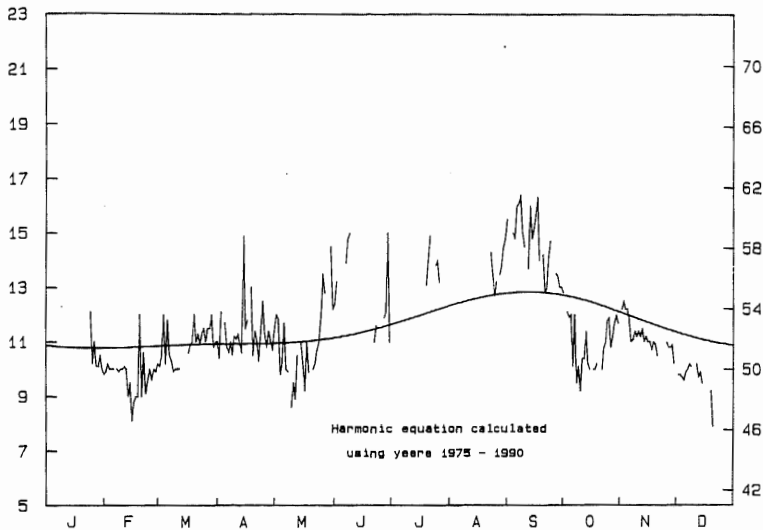
DAYS	BODEGA BAY					SIGMA T				YEAR 1990		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		25.74			26.23	25.37		25.59				
2		25.67			26.16		25.95	25.08		25.39		
3				25.81	26.00		26.22	25.13		25.64		
4				25.73	25.98							
5			25.64	25.80					25.31	25.11		
6			25.63	25.76				24.96	25.36	25.09		
7					26.15			24.96	25.04			
8	25.81							24.81		25.19		
9	25.78	25.88	25.57	25.92				24.93		25.28		
10		25.88	25.53	25.88				24.82	25.52	25.28		
11			25.67	26.08			25.35		25.54	25.28		
12	25.88		25.17			26.21	25.18		25.68	25.38		
13	25.89	26.17				26.19	25.16	25.73	25.78			
14		26.15			26.00			25.36				
15	26.20	26.00										26.02
16	26.16			25.66	26.43		25.32			25.82		
17				25.62						26.10		
18					26.15	26.12		25.37	25.76			
19			25.96	25.80					25.75			
20		26.08	25.86	25.60		25.71		25.30				
21		25.93	26.07			25.72		25.49				
22	25.45	25.85			25.95							
23	25.45	25.77		25.59	25.94		25.83			25.38		
24				25.97	26.00		25.77			25.53		
25	25.54				25.95		25.84		24.86	25.41		
26	25.64	25.61		26.34		25.95	25.43		24.85	25.35		
27		25.66	26.23				25.47					
28			26.21				25.94					
29	25.59		26.05		25.67		25.80	24.85	24.88			
30	25.57		25.93				25.97			25.49		
31					25.38		25.28	24.74				
							25.860	24.79				
1-10 MEANS		25.75	25.72	25.70	26.07	25.37	26.08	25.03	25.31	25.28		
SAMPLE SIZE		4	5	6	6	1	2	8	4	7		
11-20 MEANS		26.04	26.03	25.59	26.17	26.06	25.25	25.51	25.70	25.72		
SAMPLE SIZE		5	5	6	4	4	4	5	5	5		
21-31 MEANS	25.54	25.76	26.10	25.96	25.81	25.79	25.60	24.93	24.87	25.43		
SAMPLE SIZE	6	5	5	3	6	6	6	5	3	5		
MONTHLY MEANS	25.54	25.86	25.95	25.71	26.00	25.85	25.57	25.14	25.36	25.45		
SAMPLE SIZE	6	14	15	15	16	11	12	18	12	17		
MAXIMUM VALUE	25.64	26.20	26.23	26.34	26.43	26.21	26.22	25.78	25.78	26.10		
MINIMUM VALUE	25.45	25.61	25.60	25.17	25.38	25.36	25.16	24.74	24.85	25.09		
RANGE	0.19	0.59	0.63	1.17	1.05	0.85	1.06	1.05	0.93	1.00		
STANDARD DEV.	0.08	0.18	0.21	0.25	0.23	0.29	0.34	0.35	0.37	0.29		

Trinidad Beach, CA.

Degrees
Centigrade

1990

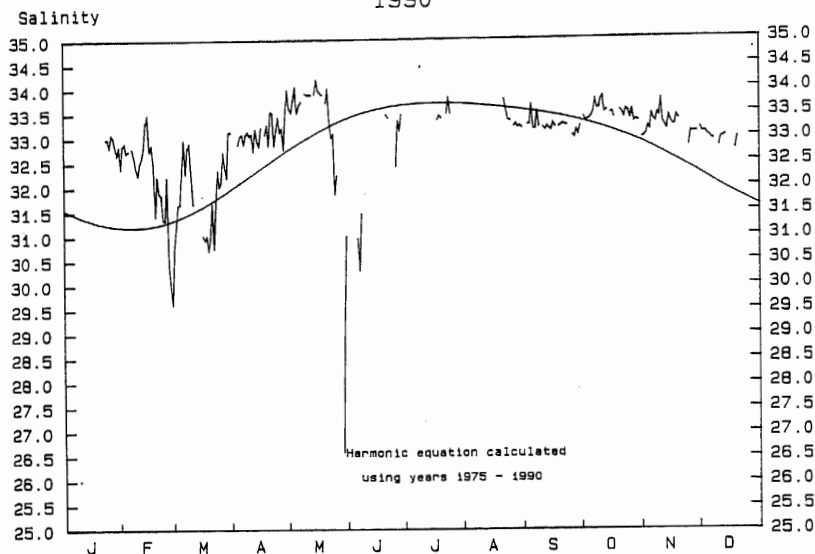
Degrees
Fahrenheit



DAYS	TRINIDAD BEACH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		9.9	10.1	10.4	12.0	13.2		12.0			12.2	9.8
2		10.2	10.5	12.1	11.8					12.1	12.5	9.8
3		10.0	12.0		9.9			13.0	15.0	11.9	12.2	9.7
4		10.0	10.2	11.7	10.3	13.2			14.8	12.0	12.2	9.6
5		10.0	11.8	10.8	11.7				16.0	10.1	11.8	9.9
6			10.5	10.6	10.0	13.9			16.1	12.0	11.0	10.0
7		10.0	10.3	11.0	9.9	14.8			16.4	9.5	11.1	10.2
8		9.9	9.9	10.5		15.0			12.9	15.0	10.1	11.4
9									14.5	9.2	11.2	
10	12.3	10.0	10.0	11.2	8.6			13.0	15.7	10.4	11.4	
11		10.0	10.0	11.1	8.5				13.7	10.4	11.2	10.2
12		11.9	10.0	11.3	8.9	12.5			16.0	11.4	11.5	9.7
13		9.0	9.9	10.6	10.5		12.2		14.8	10.2	11.0	9.9
14			9.5		14.9	11.0			15.2	10.0	11.2	9.5
15		11.4	8.1	11.5	10.2				15.7	11.0		
16		8.8	10.6	11.8	9.2			13.0	16.3	10.0	11.0	
17	12.0	9.0	10.9	11.0	11.0				15.7	10.0	10.7	10.0
18		9.0	11.0	13.0	9.9		13.1		13.0	10.0	10.2	11.0
19		12.0	12.0	10.5			14.0		14.2		10.9	9.2
20		9.0	11.0	11.4	10.0		14.9	14.0	12.8		10.5	7.9
21		10.6	11.3	11.0	10.2	11.0			13.0	10.0		
22	11.7	9.1	10.9	10.3	10.7	11.6			14.3	14.1	10.8	
23		9.6	11.3	11.1	11.0		13.8		13.5	14.7	11.0	11.0
24	12.1	10.0	11.5	12.5	11.9		14.0		12.7	11.8		
25	10.2	9.6	11.0	11.3	13.5		13.2	13.2		11.9	11.0	
26	11.0	10.0	11.5	10.8	12.8	11.9			13.5	10.8	10.8	8.4
27	10.1	9.9	11.5	11.4		12.1			13.5	13.4	11.2	10.8
28	10.1	10.2	12.0	11.0		15.0			13.8	13.0	11.7	10.9
29	10.5	10.8	10.7		14.5	11.0			14.5	13.0	12.0	10.2
30	10.0		11.0	11.4	12.2		13.5		14.8	12.8	11.7	
31	9.8		11.0		12.4			15.5				
1-10 MEANS	12.30	10.00	10.53	11.04	10.40	14.02		12.68	15.40	10.81	11.70	9.89
SAMPLE SIZE	1	9	10	9	9	5		5	7	9	10	8
11-20 MEANS	11.77	9.45	10.77	11.77	10.09	12.35	14.00	13.4	14.74	10.31	11.00	9.49
SAMPLE SIZE	3	10	7	8	8	2	3	4	9	7	10	7
21-31 MEANS	10.61	9.88	11.25	11.17	12.13	12.10	13.63	13.98	13.44	11.29	10.78	8.40
SAMPLE SIZE	9	8	11	10	9	6	4	9	8	10	6	1
MONTHLY MEANS	11.01	9.76	10.88	11.32	10.90	12.88	13.79	13.45	14.50	10.86	11.22	9.62
SAMPLE SIZE	13	27	28	28	26	13	7	18	24	26	26	16
MAXIMUM VALUE	12.3	12.0	12.0	14.9	14.5	15.0	14.9	15.5	16.4	12.1	12.5	10.2
MINIMUM VALUE	9.8	8.1	9.9	10.3	8.6	11.0	13.1	12.0	12.8	9.2	10.2	7.9
RANGE	2.5	3.9	2.1	4.6	5.9	4.0	1.8	3.5	3.6	2.9	2.3	2.3
STANDARD DEV.	0.93	0.72	0.67	0.94	1.43	1.44	0.61	0.89	1.19	0.90	0.56	0.64
ANNUAL MIN		7.9										
ANNUAL MEAN						11.68					16.4	
ANNUAL MAX												

Trinidad Beach, CA.

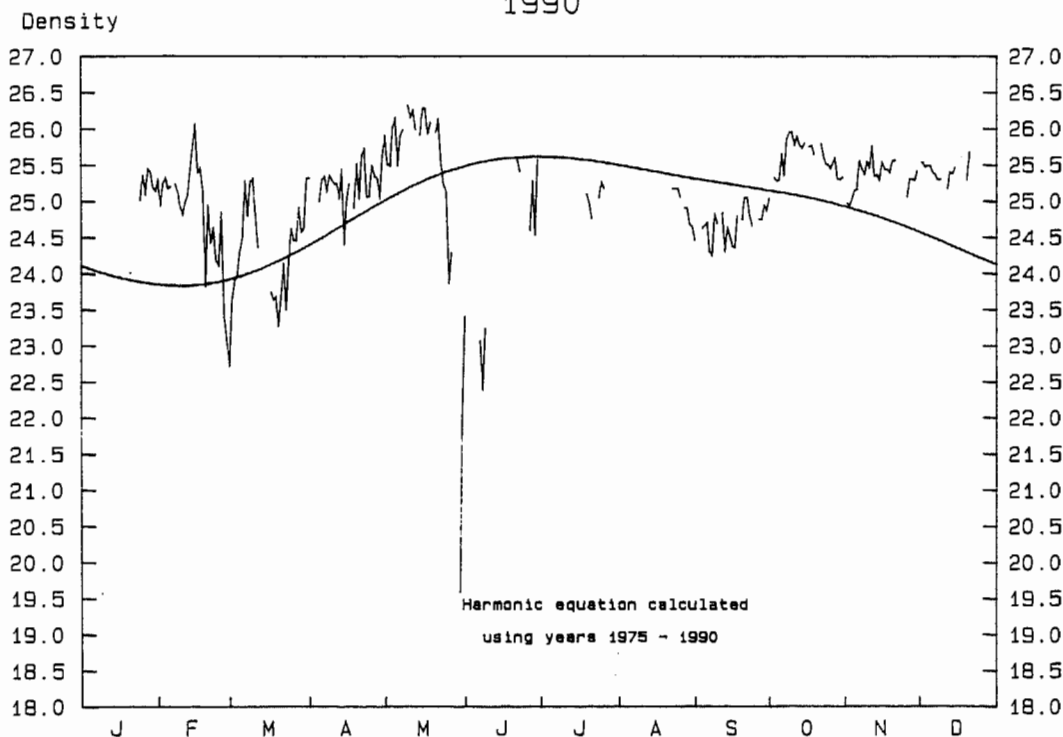
1990



DAYS	TRINIDAD BEACH					SALINITY				YEAR 1990			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1		32.30	30.79		33.60			33.48			32.96	33.15	
2		32.85	31.21		33.52					33.40	32.99	33.06	
3		32.91	31.65		33.77			33.47	33.25	33.29	33.04	33.07	
4		32.71	31.67	32.87	34.05	30.63			33.25	33.34	33.19	33.05	
5		32.75	32.28	33.05	33.50				33.45	33.36	33.12	32.99	
6			32.39	32.80	33.14			33.46	33.15	33.41	33.44	32.97	
7		32.80	32.29	32.88	33.74	30.93			33.16	33.49	33.32	32.92	
8		32.63	32.81	33.07	33.67	31.45			33.52	32.75	33.28	32.91	
9	26.01	32.59	32.80	33.14	33.91				33.20	33.56	33.47		
10		32.25	32.28	33.04	33.87			33.50	33.18	33.57	33.40		
11		32.50	31.67	33.09	33.89	33.16			33.21	33.48	33.19	32.77	
12	29.02	32.60	32.74	33.87					33.12	33.81	33.27	32.95	
13		32.82	32.11	33.19	33.87				33.16	33.52	33.12	32.96	
14		32.50	31.67	33.09	33.89				33.16	33.52	33.12	32.99	
15	32.65	33.48		32.83	34.19				33.44	33.12		33.41	
16		32.74	31.01	33.21	33.94				33.28	33.46	33.29		
17	33.16	32.87	30.83	33.21	33.91				33.20	33.49	33.21	33.00	
18		32.48	31.01	33.08	33.87		33.35			33.37	33.22		
19		31.42	30.72	33.27			33.44				33.41	32.71	
20		32.22	30.98	32.85	33.72		33.39	33.24		33.23		32.95	
21		31.88	31.68	33.55	34.00		33.46		33.19	33.26	33.52		
22		32.99	32.21	32.92	33.35	33.39			33.23	33.47			
23	32.56	31.34	31.65	32.85	32.99			33.48	33.54	33.22	33.37	33.17	
24		32.99	31.34	32.35	33.16	33.07			33.81	33.34	33.55		
25		32.99	32.21	32.40	32.76	33.13			33.48	33.34	33.50	32.80	
26		32.82	30.44	32.12	33.12	32.22	32.41			33.02	33.35	33.08	
27		33.09	29.98	32.72	33.20	33.34			33.21	32.97	33.54	33.06	
28		33.02	29.61	32.40	32.76	33.13			33.14	33.28	33.14	33.06	
29		32.84		32.21	33.47	26.58	33.45			33.18	33.03	33.33	
30		32.66		33.13	33.98	29.30		33.91		33.22	33.20	33.30	
31		32.84		33.13	33.98	30.99				33.18			
1-10 MEANS		32.63	32.08	33.02	33.74	30.82		33.47	33.31	33.46	33.22	33.01	
SAMPLE SIZE	1	9	10	8	9	4		5	7	9	10	8	
11-20 MEANS		31.61	32.65	31.20	33.02	33.91	33.16	33.39	33.34	33.19	33.55	33.23	
SAMPLE SIZE	3	10	7	9	8	1	3	4	4	9	7	10	
21-31 MEANS		32.87	31.08	32.20	33.30	31.59	33.20	33.67	33.34	33.13	33.42	33.04	
SAMPLE SIZE	9	8	11	10	9	6	4	9	8	10	6	1	
MONTHLY MEANS		32.05	32.18	31.91	33.12	33.05	32.33	33.55	33.38	33.21	33.47	33.22	
SAMPLE SIZE	13	27	28	27	24	11	7	18	24	26	26	33.00	
MAXIMUM VALUE	33.16	33.48	33.13	33.98	34.19	33.46	33.91	33.77	33.65	33.81	33.75	33.50	
MINIMUM VALUE	26.01	29.61	30.72	32.74	26.58	30.28	33.35	33.18	32.97	33.28	32.80	32.71	
RANGE	7.15	3.87	2.41	1.24	7.61	3.18	0.56	0.59	0.68	0.53	0.95	0.79	
STANDARD DEV.	2.11	0.95	0.77	0.28	1.72	1.26	0.22	0.15	0.14	0.14	0.20	0.17	
ANNUAL MIN	26.01					32.87					34.19		
ANNUAL MEAN													
ANNUAL MAX													

Trinidad Beach, CA.

1990



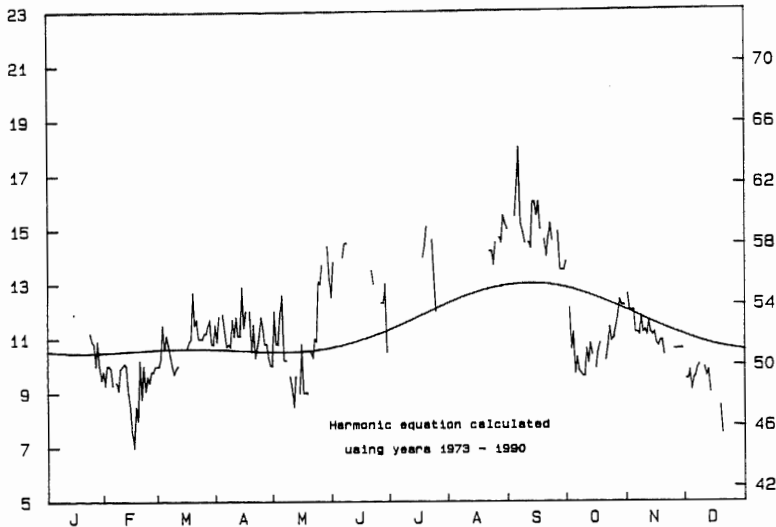
DAYS	TRINIDAD BEACH					SIGMA T				YEAR 1990		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		24.92	23.65		25.50			25.41			24.97	25.54
2		25.24	23.91	25.01	25.48					25.33	24.93	25.47
3		25.32	23.99		26.03			25.21		25.28	25.03	25.50
4		25.16	24.32	24.99	26.16	22.97			24.62	25.30	25.15	25.50
5		25.20	24.51	25.29	25.48				24.71	25.66	25.17	25.40
6			25.28	25.35	25.91	23.07		25.30	24.30	25.35	25.56	25.37
7		25.23	24.79	25.13	25.99				24.24	25.86	25.45	25.29
8		25.12	25.26	25.36		23.24		25.20	24.83	25.96	25.36	25.30
9	19.57	24.91	25.31	25.29	26.33				24.69	25.96	25.55	
10		24.81	24.83	25.23	26.15					25.77	25.46	
11		24.98	24.35	25.24	26.27	25.07			24.84	25.91	25.77	25.18
12	21.97	25.08		25.03	25.98				24.30	25.78	25.34	25.40
13		25.41	24.71	25.44				25.17	24.64	25.73	25.37	25.38
14		25.73		24.39	25.92				24.51	25.80	25.28	25.47
15	24.88	26.07		25.00	26.29			25.19	24.37		25.54	
16		25.38		25.24	26.27				24.36	25.75	25.44	
17	25.16	25.45	23.74		25.93			25.06	24.80	25.77	25.44	25.39
18		25.15	23.67	24.91	26.09		25.10			25.65	25.39	
19		23.81	23.27	25.52			24.98		24.75		25.56	25.29
20		24.94	23.65	25.03	25.95		24.75	24.83	25.06		25.56	25.68
21		24.42	24.14	25.65	26.14	25.58			24.30	25.78	25.34	
22		24.63	23.49	25.74	25.54	25.41			25.05	25.80	25.62	
23	24.75	24.16	24.12	25.05	25.21		25.05	25.16	24.67	25.51	25.35	
24	25.01	24.10	24.62	25.07	25.11		25.27	25.17		25.50		
25	25.35	24.84	24.46	25.49	23.86		25.18	25.06		25.44	25.06	
26	25.08	23.39	24.45	25.35	24.28	24.60			24.76	25.53	25.32	
27	25.44	23.05	24.91	25.30		25.28		24.91	24.74	25.60	25.30	26.04
28	25.39	22.72	24.57	25.03		24.53		24.89	24.95	25.31	25.28	
29	25.18		24.64	25.64	19.59	25.57		24.68	24.87	25.29	25.41	
30	25.13		25.32	25.91	22.13		25.45	24.64	25.04	25.33		
31	25.30		25.32		23.40			24.46				
1-10 MEANS	19.57	25.10	24.59	25.21	25.89	22.91		25.27	24.58	25.61	25.26	25.42
SAMPLE SIZE	1	9	10	8	9	4		5	7	9	10	8
11-20 MEANS	24.00	25.20	23.86	25.09	26.09	25.07	24.94	25.06	24.63	25.77	25.47	25.40
SAMPLE SIZE	3	10	7	9	8	1	3	4	9	7	10	7
21-31 MEANS	25.18	23.91	24.55	25.42	23.92	25.16	25.24	24.90	24.86	25.49	25.29	26.04
SAMPLE SIZE	9	8	11	10	9	6	4	9	8	10	6	1
MONTHLY MEANS	24.48	24.79	24.39	25.25	25.27	24.34	25.11	25.04	24.69	25.61	25.35	25.45
SAMPLE SIZE	13	27	28	27	26	11	7	18	24	26	26	16
MAXIMUM VALUE	25.44	26.07	25.32	25.91	26.33	25.58	25.45	25.41	25.06	25.96	25.77	26.04
MINIMUM VALUE	19.57	22.72	23.27	24.39	19.59	22.38	24.75	24.46	24.24	25.28	24.93	25.18
RANGE	5.88	3.35	2.05	1.52	6.73	3.20	0.70	0.95	0.82	0.68	0.83	0.86
STANDARD DEV.	1.73	0.79	0.62	0.31	1.54	1.19	0.22	0.25	0.24	0.22	0.20	0.20
ANNUAL MIN		19.57				24.98			ANNUAL MAX		26.33	

Trinidad Bay, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



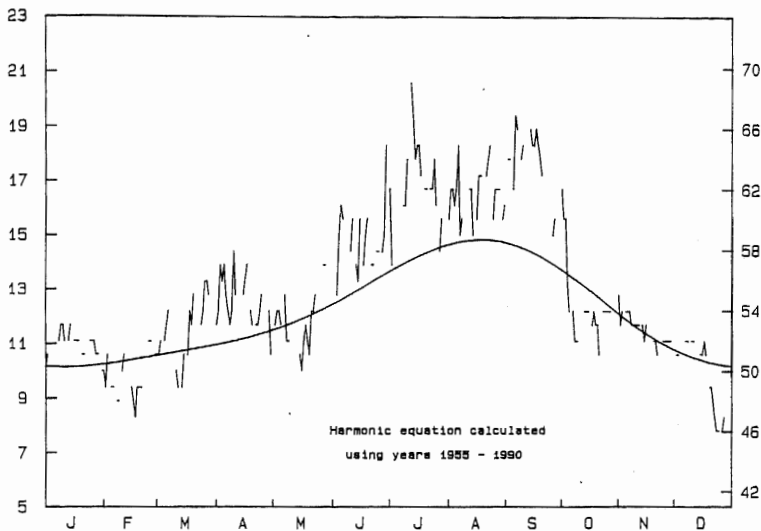
DAYS	TRINIDAD BAY												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DEC	
1		9.3	10.0	10.9	12.0	13.8		13.5			12.6	9.5	
2		10.0	10.3	11.8	10.8					12.1	12.0	9.5	
3		10.0	11.5		10.8					10.6	12.0	9.8	
4		9.9	10.6		11.9				15.5	11.2	12.0	9.1	
5		9.3	11.1	11.3	12.6	14.0			16.6	9.7	11.2	9.5	
6			10.8	10.7	10.2	14.0			13.0	18.0	10.3	11.2	9.6
7		9.4	10.4	10.8	10.2	14.5				15.2	9.8	11.1	9.9
8		9.1	10.0	10.7					13.8	14.9	9.7	11.8	10.0
9		9.9	9.7	11.7	9.6					14.5	9.6	11.2	
10		10.0	9.9	11.1	9.2					15.0	10.8	11.2	9.8
11		10.1	10.0	11.8	8.5	12.0				14.5	10.6	11.1	9.9
12		10.0		11.1	9.6					14.3	10.1	11.6	9.6
13		9.0	9.8			10.3				16.0	10.4	11.1	9.0
14		8.5		12.9	9.0					15.5		11.2	
15		7.0		11.4	10.8					16.0		10.8	
16	11.9		10.7	12.0	9.0					15.0	10.5	10.7	9.4
17		8.5	10.9		9.0					14.7	10.8	10.9	
18	11.8		11.0	12.0	9.0		14.0			12.9	15.0	10.5	
19		10.2	12.7	10.5			14.4			14.6		10.9	8.5
20		8.8	11.5	11.5	10.5		15.1		14.8	14.0		10.4	7.5
21		10.0	11.7	10.3	10.3	13.5				14.7	10.2		
22		11.0	9.1	11.0	10.7	11.0	13.0			14.2	15.2	10.7	
23			9.6	11.0	11.1	10.9			14.6	14.2	14.6	11.4	
24		11.2	9.4	11.0	11.8	13.1				13.2	13.7	10.9	
25		10.9	9.8	11.2	11.4	13.0				12.0	14.5	11.0	10.6
26		10.8	9.8	11.2	10.8		12.3			14.7	13.3	11.4	10.6
27		10.0	10.0	11.3	10.8		12.3			14.7	13.3	11.8	10.6
28		10.9	10.0	11.7	10.3		13.0			14.5	13.5	12.4	10.6
29		10.0	10.8	10.0		14.4				15.5	11.5	12.2	10.6
30		9.5		10.8	10.0	13.2				15.2	13.8	12.2	
31		9.8		11.5	12.5					15.0			
1-10 MEANS		9.66	10.43	11.21	10.81	14.16		13.52	15.78	10.29	11.64	9.61	
SAMPLE SIZE		9	10	9	9	5		5	6	9	10	8	
11-20 MEANS		11.85	8.76	10.94	11.59	9.43	11.15	14.50	13.82	15.10	10.44	10.99	9.10
SAMPLE SIZE		2	10	7	9	8	2	3	4	9	7	10	7
21-31 MEANS		10.46	9.71	11.22	10.72	12.46	12.43	13.30	14.61	14.81	11.42	10.67	7.90
SAMPLE SIZE		9	8	11	10	9	6	4	9	8	10	6	1
MONTHLY MEANS		10.71	9.34	10.87	11.16	10.95	12.90	13.81	14.13	14.97	10.77	11.17	9.28
SAMPLE SIZE		11	27	28	28	26	13	7	18	23	26	26	16
MAXIMUM VALUE		11.9	10.2	12.7	12.9	14.4	14.5	15.1	15.5	18.0	12.4	12.6	10.0
MINIMUM VALUE		9.5	7.0	9.7	10.0	8.5	10.3	12.0	12.9	13.5	9.6	10.4	7.5
RANGE		2.4	3.2	3.0	2.9	5.9	4.2	3.1	2.6	4.5	2.8	2.2	2.5
STANDARD DEV.		0.79	0.83	0.69	0.68	1.48	1.38	1.04	0.79	1.08	0.86	0.55	0.73
ANNUAL MIN		7.0											
ANNUAL MEAN						11.67							
ANNUAL MAX										18.0			

Crescent City, CA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



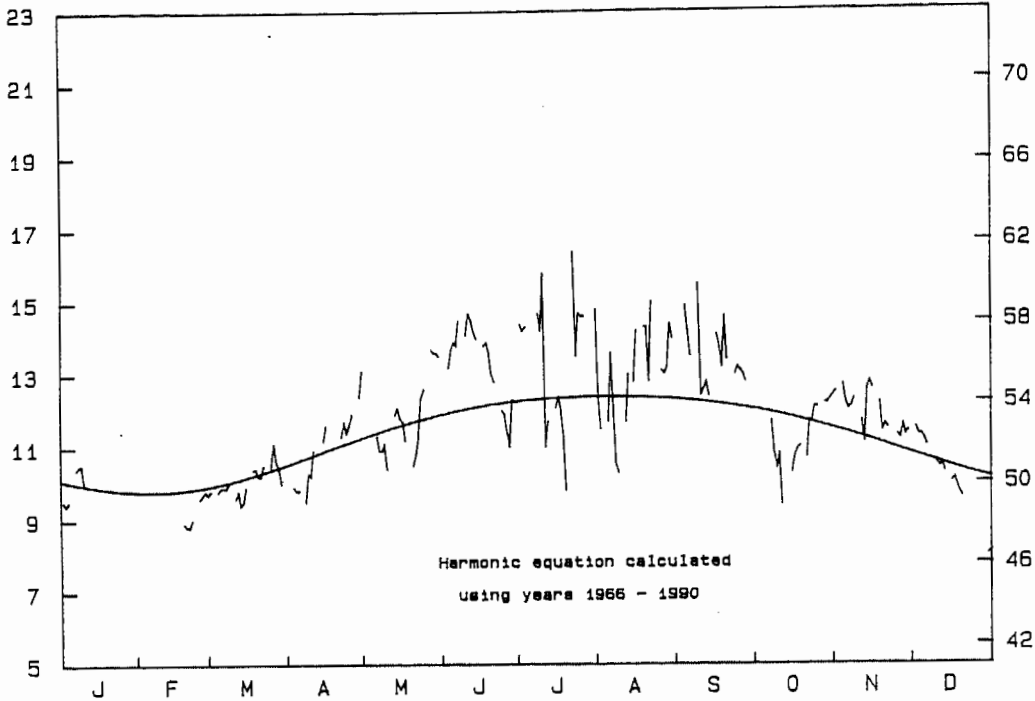
DAYS	CRESCENT CITY											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.0	9.4	10.6	12.2	11.7	13.9	16.7	17.8	15.6	11.7	10.6	
2	10.6	10.6	11.1	13.3	12.2	12.8	16.7	17.8	15.6	12.2	10.6	
3												
4	10.0	9.4	11.1	13.3	11.7	16.1	16.7	16.7	12.2	12.2	10.0	
5		9.4	11.7	12.8	12.8	15.6	18.3	19.4	12.2	12.2	11.1	
6	10.6		12.2	12.2	12.8		15.0	18.9	12.2	12.2	11.1	
7		8.9		11.7	11.1	16.1	16.1	15.6	11.1	11.7	11.1	
8	11.1	8.9	11.9	14.4	11.1	14.4	17.8	16.1	17.8	11.1	11.7	11.1
9	11.7			12.2								
10	11.7	10.0	10.0	12.8	11.7	15.6				11.1	11.7	11.1
11	11.1	10.6	9.4				20.6	16.7	17.2	12.2	11.7	11.1
12				12.2	11.1	13.9	19.4	16.7	12.2	12.2	11.7	11.1
13	11.1	10.0	9.4	12.8	10.6	13.3	17.8	15.0	18.9	12.2	11.7	10.6
14	11.7		10.6	13.3	10.0	15.6	18.3	15.6	18.3	12.2	11.1	10.6
15		9.4		13.3	10.0		18.3	15.6	18.3	12.2	11.7	10.6
16	11.1	8.9	10.6	13.9	11.1	13.9	17.2	17.2	18.9	11.7	11.1	11.1
17	11.1	8.3	12.2	11.7	11.7	15.0	16.7	17.2	18.3	12.2	11.1	11.1
18	11.1	9.4	11.7	12.2	11.1	15.6	16.7	17.8	11.7	11.7	11.1	9.4
19		9.4	12.8	11.7	10.6		16.7	17.2	11.7	11.7	11.1	9.4
20	10.6	9.4			12.2	13.9		17.2	17.2	10.6	11.1	9.4
21	10.6				11.7	12.2	13.9	16.7	17.8	14.4	10.6	8.9
22		11.7			11.7	12.8	16.7	18.3	14.4	12.2	10.6	8.3
23			11.7	12.2		14.4	17.8	17.8	12.2	12.2	7.8	7.8
24	11.1	11.1	12.2	12.8	14.4	14.4	16.1	15.6	15.0	12.2	11.1	7.8
25	11.1	11.1	13.3				16.7	15.0	12.2	12.2	11.1	7.8
26	11.1		13.3	12.8	13.9	14.4	14.4	16.7	15.6	12.2	11.1	7.8
27	10.6	10.6	12.8		12.2	13.9	15.0	16.7	15.0	12.2	11.1	8.3
28	10.6	10.6					18.3				11.1	8.3
29			11.7	10.6	13.3		16.7	15.6	16.7	12.2		8.3
30	10.0				12.8	16.7	15.6	16.1	16.7	12.8	11.1	8.9
31	10.0		11.7				15.6					8.9
1-10 MEANS	10.81	9.51	11.23	12.94	11.81	15.09	15.75	16.40	18.10	12.77	11.92	10.80
SAMPLE SIZE	7	7	7	10	8	7	6	8	7	8	9	7
11-20 MEANS	11.11	9.43	10.96	12.68	11.05	14.46	18.13	16.51	18.11	11.81	11.36	10.40
SAMPLE SIZE	7	7	7	6	8	7	8	7	8	8	7	7
21-31 MEANS	10.64	11.02	12.30	12.00	13.33	15.30	16.20	16.69	15.75	12.29	11.03	8.26
SAMPLE SIZE	8	5	7	7	7	7	8	8	6	7	7	8
MONTHLY MEANS	10.85	9.86	11.53	12.59	12.01	14.95	16.78	16.53	17.43	12.29	11.48	9.75
SAMPLE SIZE	22	20	22	23	23	21	22	23	21	23	23	22
MAXIMUM VALUE	11.7	11.7	13.3	14.4	14.4	18.3	20.6	18.3	19.4	15.6	12.2	11.1
MINIMUM VALUE	10.0	8.3	9.4	10.6	10.0	12.8	13.9	15.0	14.4	10.6	10.6	7.8
RANGE	1.7	3.4	3.9	3.8	4.4	5.5	6.7	3.3	5.0	5.0	1.6	3.3
STANDARD DEV.	0.53	0.90	1.10	0.90	1.15	1.26	1.58	0.91	1.41	1.20	0.46	1.27
ANNUAL MIN		7.8										
ANNUAL MEAN						13.00						
ANNUAL MAX										20.6		

Charleston, OR.

Degrees
Centigrade

1990

Degrees
Fahrenheit



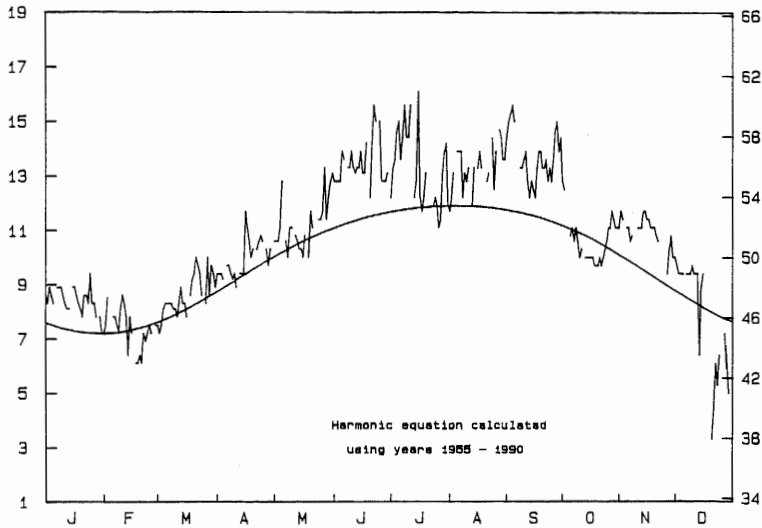
CHARLESTON, OR.		TEMPERATURE											YEAR 1990	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1			9.8	9.8			14.4	12.4			12.5			
2							14.2	11.5						11.5
3	9.5						14.3							11.3
4	9.4													11.3
5	9.5													11.2
6														11.0
7														
8	10.4													
9	10.5													
10	10.0													
11														
12														
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21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
1-10 MEANS	9.97		9.88	9.90	10.78	13.87	14.64	11.73	14.10	10.93	12.30	11.06		
SAMPLE SIZE	7		6	7	6	6	7	7	5	4	6	7		
11-20 MEANS		8.90	9.90	11.40	11.53	13.96	11.47	13.38	13.36	10.46	12.00	10.06		
SAMPLE SIZE		3	8	4	6	8	7	6	8	5	8	8		
21-31 MEANS		9.43	10.46	11.91	12.69	11.90	14.56	13.64	13.02	11.93	11.38	7.83		
SAMPLE SIZE		6	7	7	8	6	7	7	5	9	6	4		
MONTHLY MEANS	9.97	9.26	10.08	11.02	11.77	13.32	13.56	12.90	13.47	11.30	11.91	9.96		
SAMPLE SIZE	7	9	21	18	20	20	21	20	18	18	20	19		
MAXIMUM VALUE	10.5	9.8	11.1	13.1	13.7	14.7	16.4	15.0	15.5	12.4	12.8	11.5		
MINIMUM VALUE	9.4	8.8	9.4	9.5	10.1	11.0	9.8	10.3	12.4	9.4	11.1	7.6		
RANGE	1.1	1.0	1.7	3.6	3.6	3.7	6.6	4.7	3.1	3.0	1.7	3.9		
STANDARD DEV.	0.50	0.43	0.41	1.04	1.14	1.08	1.71	1.31	0.88	0.86	0.56	1.26		
ANNUAL MIN		7.6												
ANNUAL MEAN						11.54					16.4			
ANNUAL MAX														

Near Bay, WA.

Degrees
Centigrade

1990

Degrees
Fahrenheit



DAYS	NEAR BAY													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	8.6	7.5	7.2	9.4	10.6	12.8	13.3	12.2	15.0	12.5	11.7	9.7		
2	8.3	8.5	7.5	9.4	10.6	12.8	13.6	13.1	15.3		11.4	9.4		
3	8.9		8.1	9.2	11.1	12.8	14.7		15.6			9.4		
4	8.6		8.3		12.8	13.9	15.0	13.9	15.0	10.8	11.1	9.4		
5	8.3	7.8	8.3	9.7	10.6	13.6	13.6	13.9		10.4	10.6	9.4		
6		7.8	8.3	9.7	10.6	13.6	14.4	13.9		10.4	10.6	9.4		
7	8.9	7.5	8.3	9.4	10.0	13.3	15.6	12.2	13.3	11.1	10.8	9.4		
8	8.9	7.2	8.1	9.2	11.1	13.3	14.4	13.1	13.3	10.6		9.4		
9	8.9	8.1	8.1	9.4	11.1	13.9	14.4	12.8	13.6	10.0		9.4		
10	8.6	8.6	7.8	8.9		13.3	15.6	13.3	13.9	10.3	11.1	9.4		
11	8.3	8.3	8.3		10.8	13.1			12.8		11.1	9.4		
12	8.1	7.8	8.9	9.4	10.6	13.3	12.2	11.9	12.2	10.0	11.1	9.4		
13	8.1	6.4	8.3	9.4	10.3	13.3	12.8	13.3	12.8	10.0	11.7	6.4		
14		7.8	8.3	9.4	10.3	13.9	16.1		12.5	10.0	11.7	8.9		
15	8.9	7.2	7.8		11.7	10.0	13.1	12.8	13.3	12.2	10.0	11.4		
16	8.9			11.1	10.8	13.1	11.7	13.9	13.3	10.0	11.4	9.4		
17	8.6	6.1	8.6	10.6		14.2	12.2	13.3	13.9	9.7	11.1	9.4		
18	8.3	6.1	9.2	10.0	10.0		13.1		13.9	9.7	11.1	8.6		
19	8.1	6.4	9.4		11.7	12.2	14.4	12.8	13.3	9.7	11.1	9.4		
20	7.8	6.1	10.0	10.3	11.1	14.2			13.3	10.0	10.8	9.4		
21	8.6	7.2	9.7	10.3		15.6	14.4	12.8	13.6	9.7	10.6	4.4		
22	8.6	6.9	9.4	10.6		15.0	11.9		12.8	10.0		6.1		
23	8.3	7.2	8.6	10.8			12.2	14.4	13.3	10.3		5.3		
24	9.4	7.5		10.6	11.4	15.0	11.9	12.3	12.8	10.6		6.4		
25	8.3	7.2	8.3		11.7	12.8	11.1	13.9	13.6	11.1		9.4		
26	8.3		10.0	10.3	13.3	12.8	11.4		14.7		9.4	7.2		
27	7.8	7.5	8.6	9.7	11.4	12.8	13.1	14.7	15.0	11.7	10.3	7.2		
28			9.7	10.3	12.2	13.1	12.9	14.4	13.9	11.4	10.8	6.1		
29	7.8		9.4		12.8		14.2	13.6	14.4	11.1	10.0	5.0		
30	7.2		8.9	10.6	13.1	12.2	11.9	13.6	12.8	11.1	10.0	6.7		
31			9.4		12.8		11.7	14.4		11.1				
1-10 MEANS	8.67	7.88	8.00	9.37	10.99	13.30	14.46	13.16	14.38	10.88	11.11	9.47		
SAMPLE SIZE	9	8	10	9	9	9	8	9	8	8	7	9		
11-20 MEANS	8.34	6.91	8.76	10.24	10.62	13.38	13.09	13.08	13.02	9.90	11.25	7.91		
SAMPLE SIZE	9	9	8	8	9	9	8	6	10	9	10	7		
21-31 MEANS	8.15	7.29	9.20	10.40	12.23	13.66	12.23	13.84	13.69	10.84	10.18	5.90		
SAMPLE SIZE	10	10	8	8	9	8	10	9	10	11	6	8		
MONTHLY MEANS	8.38	7.34	8.65	9.98	11.29	13.44	13.31	13.40	13.65	10.55	10.93	7.83		
SAMPLE SIZE	28	24	29	25	26	26	28	24	28	28	23	24		
MAXIMUM VALUE	9.4	8.6	10.0	11.7	13.3	15.6	16.1	14.7	15.6	12.5	11.7	9.7		
MINIMUM VALUE	7.2	6.1	7.2	8.9	10.0	12.2	11.1	11.9	12.2	9.7	9.4	3.3		
RANGE	2.2	2.5	2.8	2.8	3.3	3.4	5.0	2.8	3.4	2.8	2.3	6.4		
STANDARD DEV.	0.51	0.72	0.74	0.70	1.00	0.84	1.42	0.75	0.94	0.71	0.58	2.00		
ANNUAL MIN	3.3			ANNUAL MEAN			10.73			ANNUAL MAX			16.1	