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SURFACE WATER TEMPERATURES

AT SHORE STATIONS

United States West Coast

and Baja California

1955

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

SIO Reference 57-28

5 July 1957

Approved for distribution:



Roger Revelle, Director

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INTRODUCTION

This report presents tabulated daily surface temperatures from 26 stations along the west coast of North America. Observations made independently by two other groups are also included.

The collection of daily surface temperatures at 26 stations was undertaken to provide additional data for oceanographic studies. These observations will be carried out essentially in coordination with others taken from shipboard. The two major objectives are (1) to obtain temperatures most representative of the offshore water and (2) to study the effect of particular shore features on local temperatures. However, the most desirable sites were sometimes either inaccessible or too remote. Selections were then based on the piers, structures, establishments, and volunteers available.

The locations of observation points vary in distance from shore--from the surf zone to just beyond the breaker zone at the end of piers. Several stations are located on lightships anchored several miles offshore. Almost all observations were made at about 0900 PST. The address and location of each station are given at the end of the report.

The thermometers used were specially designed in the Division of Marine Resources. They were built to react quickly and to withstand rough treatment. To keep them short (nine inches) and thus to avoid excessive breakage, the temperature range of each thermometer was limited to the range of the area where it was to be used. (We believe that the combined error in manufacture and reading does not exceed $\pm 0.1^{\circ}\text{C}.$)

The thermometer holders (buckets) were built especially to fit the thermometers so that they could easily be taken apart for replacement of broken thermometers. Just above the bucket a cork was tied to the rope to that

when floating freely the mercury reservoir of the thermometer was submerged about 10 inches. A 50-foot line was attached to the bucket for casting into the surf or for dropping off piers, cliffs, or over the sides of ships.

The data are presented as follows:

1. A table of monthly mean temperatures for all stations.
2. Tables of daily temperatures at each station, including monthly means, extremes, temperature ranges, and standard deviations.
3. Graphs of mean temperatures for each station with the maximum and minimum for each month.

The stations are presented from north to south. Island stations are indicated by asterisks. Two charts showing station locations are included.

Data for several of the stations are incomplete, either because the observations could not be started at the beginning of the year or because broken thermometers could not be replaced immediately.

Daily surface salinities are shown on the opposite page following daily surface temperatures for the following four stations: Hopkins Marine Station, Point Hueneme, Balboa, and Scripps Pier. In addition, 5-meter temperature and salinity data are included for Scripps Pier. Salinity data were obtained at these four stations only.

Data from two stations where daily surface temperature and daily surface salinity observations were made for the U. S. Coast and Geodetic Survey are included by the permission of this agency. These stations are Neah Bay, Washington, and Crescent City, California. Time of observation was 0900 PST. These data were taken by another type of thermometer and were read to whole degrees Fahrenheit and then converted to centigrade.

Surface temperature measurements were made, usually once a month, along the west coast of northern Baja California between the United States boundary and Punta Baja by Dr. Carl L. Hubbs' group, Scripps Institution of Oceanography. The lack of regular observers in this region made the collection of daily temperature data impossible. Usually three days were required to collect the temperatures along the coast. These data are also arranged from north to south.

We are deeply indebted to the collecting agencies and their officers and to the observers for their ready and enthusiastic support. Without their help this program could not have been undertaken.

Richard A. Schwartzlose

NOTE: The thermometers were read to hundredths of degrees in most cases, but the temperatures are tabulated only to tenths. In the determination of the means, the ranges, and the standard deviations, the original figures (to hundredths) were used to obtain the utmost accuracy. The means and ranges were then again rounded off to tenths.

Swiftsure Bank Lightship

48°

Neah Bay
(USCGS)

LOCATION OF SURFACE WATER TEMPERATURE SHORE STATIONS

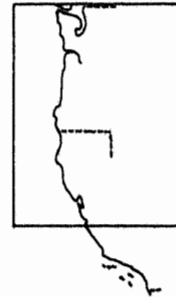
Columbia River Lightship

46°

UNITED STATES-WEST COAST

1955

44°



Port Orford Lifeboat Station

42°

Crescent City
(USCGS)

Blunts Reef Lightship

40°

Fort Ross Historical Monument

38°

Farallon Island Light Station *

Santa Cruz

Hopkins Marine Station

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128°

126°

124°

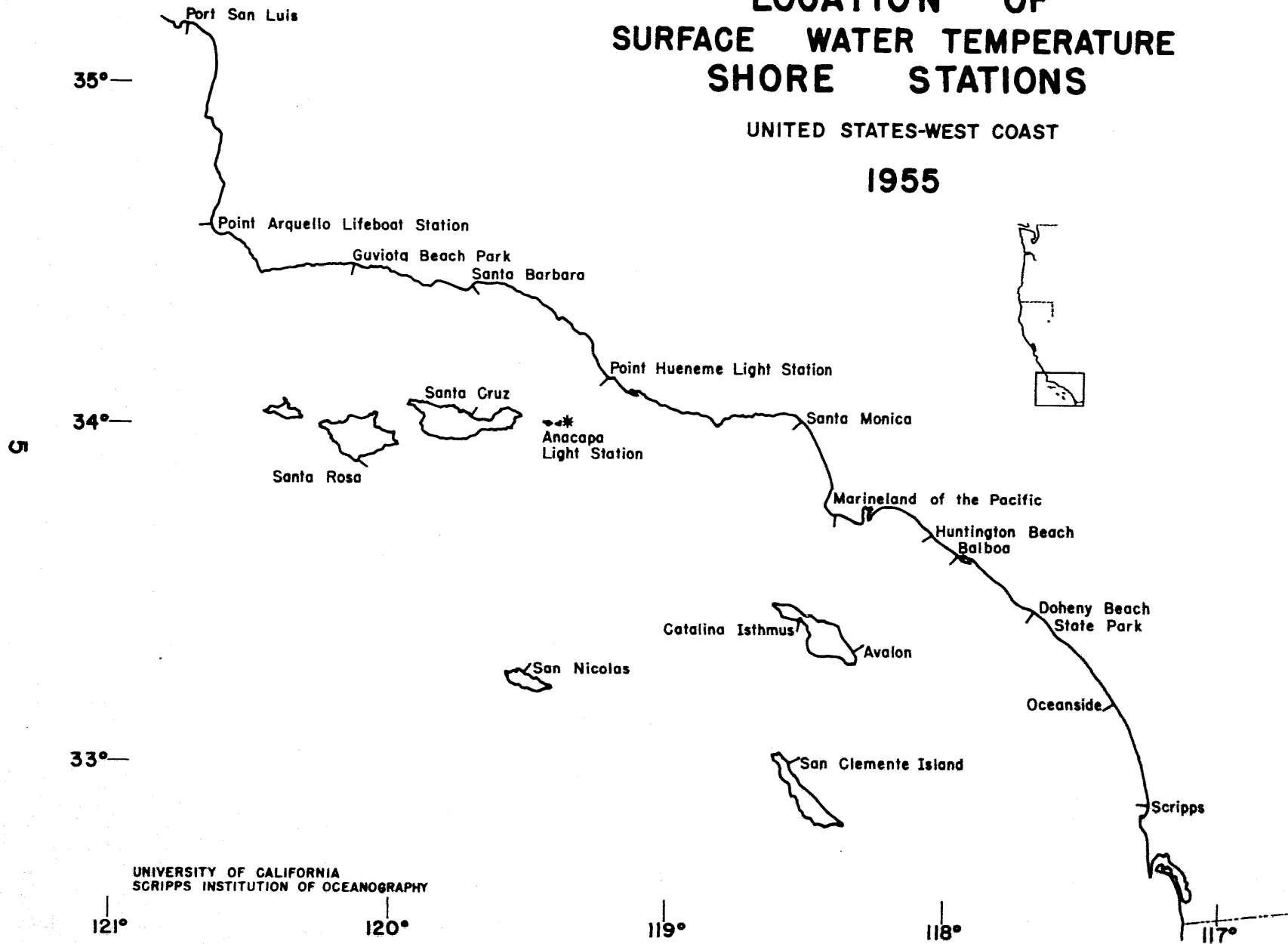
122°

120°

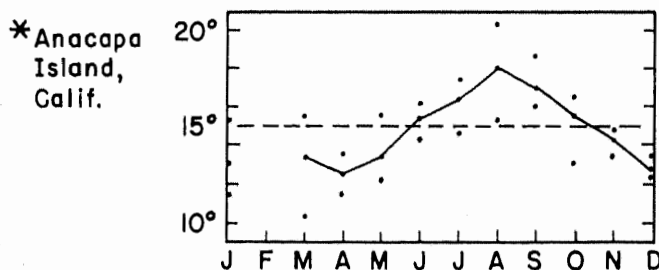
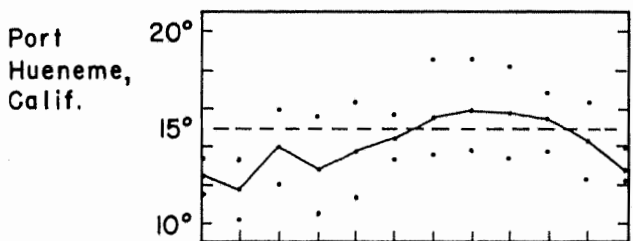
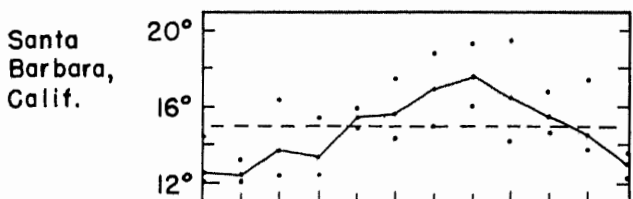
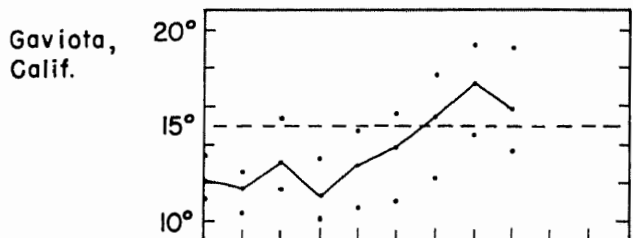
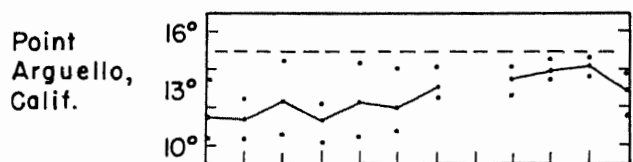
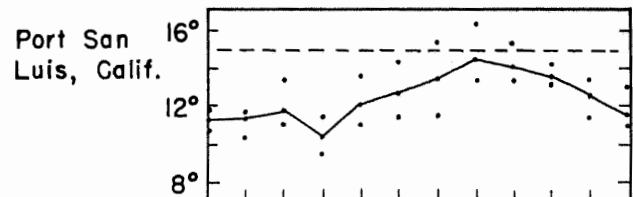
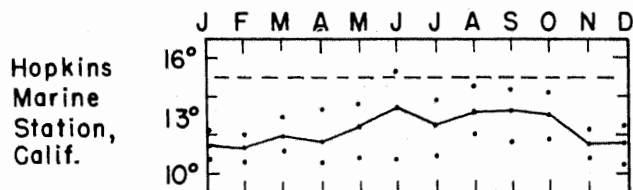
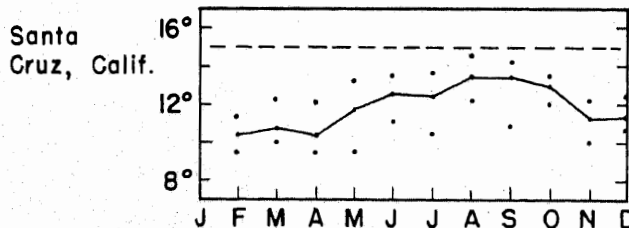
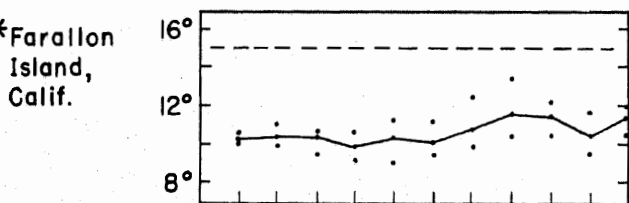
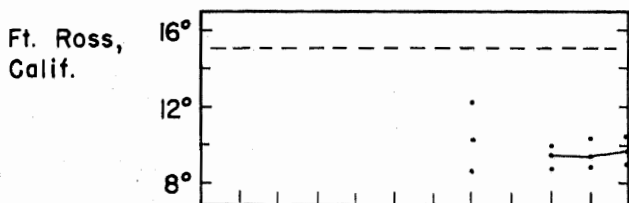
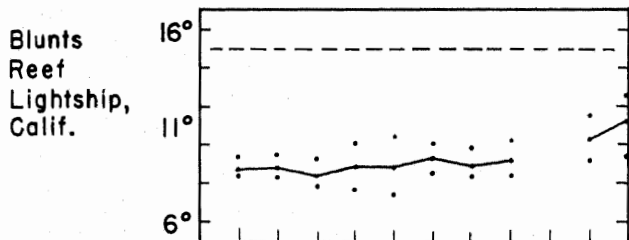
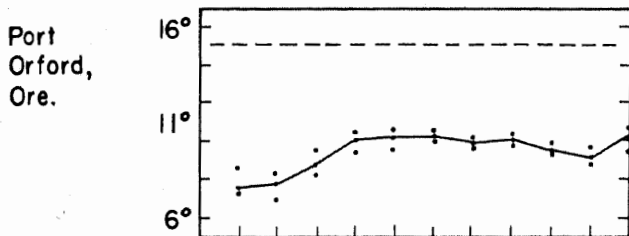
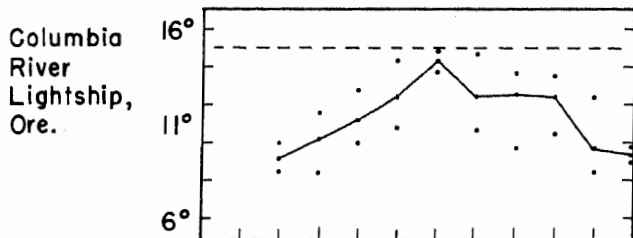
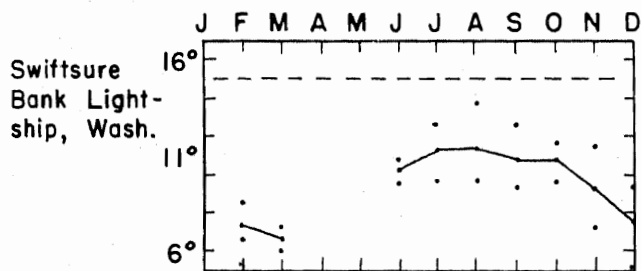
LOCATION OF SURFACE WATER TEMPERATURE SHORE STATIONS

UNITED STATES-WEST COAST

1955



MONTHLY MEANS, MINIMA AND MAXIMA SURFACE WATER TEMPERATURES AT SHORE STATIONS UNITED STATES - WEST COAST 1955

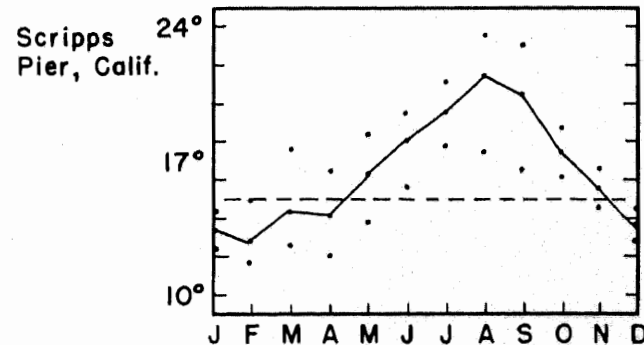
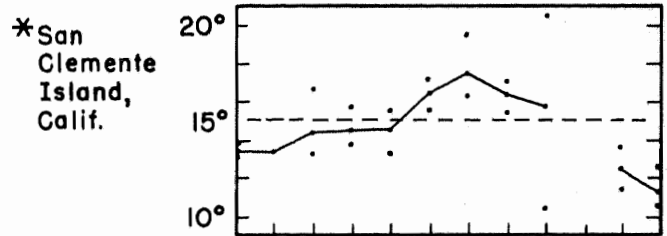
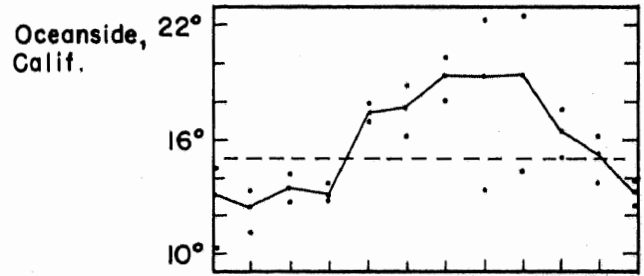
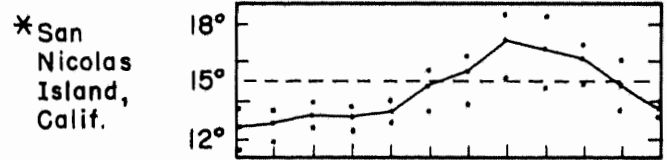
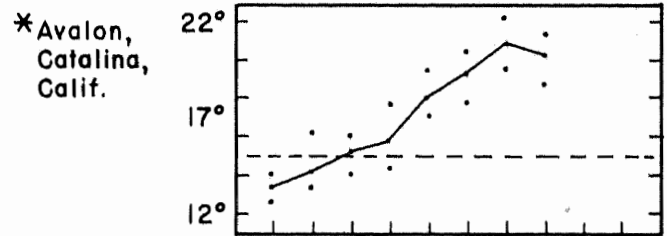
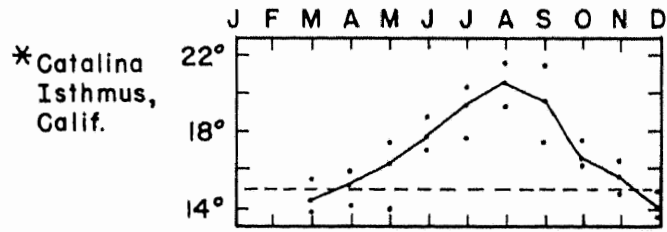
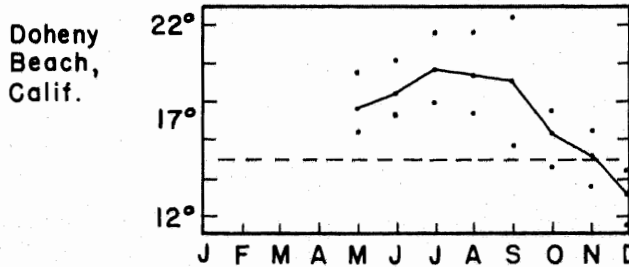
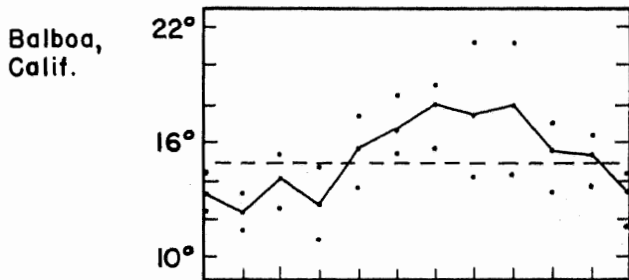
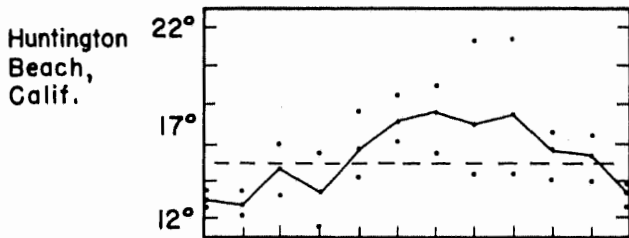
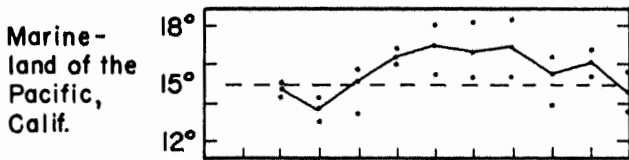
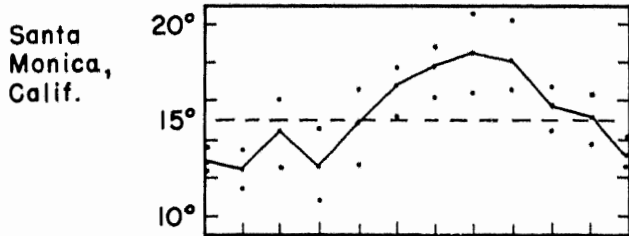
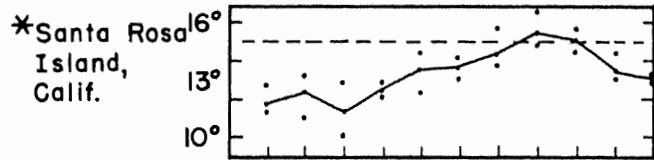
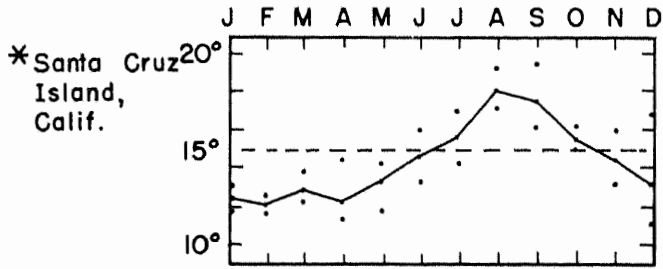


* Island

MONTHLY MEANS, MINIMA AND MAXIMA SURFACE WATER TEMPERATURES AT SHORE STATIONS

UNITED STATES - WEST COAST

1955



* Island

Table of Mean Surface Water Temperatures

Surface water
Monthly Mean Temperatures - 1955

| | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|------------------------------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| Swiftsure Bank Lightship, Wash. | | 7.29 | 6.71 | | | 10.18 | 11.24 | 11.29 | 10.81 | 10.78 | 9.14 | 7.48 |
| Columbia River Lightship, Ore. | | | 9.10 | 10.20 | 11.12 | 12.41 | 14.23 | 12.47 | 12.53 | 12.34 | 9.85 | 9.31 |
| Port Orford, Ore. | | 7.57 | 7.81 | 8.84 | 10.06 | 10.14 | 10.20 | 9.91 | 10.02 | 9.62 | 9.06 | 10.01 |
| Blunts Reef Lightship, Calif. | | 8.71 | 8.84 | 8.30 | 8.88 | 8.77 | 9.15 | 8.82 | 9.18 | 9.10 | 10.18 | 11.05 |
| Fort Ross, Calif. | | | | | | | | 10.31 | | 9.64 | 9.49 | 9.66 |
| *Farallon Island, Calif. | | 10.37 | 10.32 | 10.32 | 9.80 | 10.22 | 10.00 | 10.82 | 11.65 | 11.54 | 10.32 | 11.25 |
| Santa Cruz, Calif. | | 10.36 | 10.91 | 10.44 | 11.88 | 12.61 | 12.56 | 13.41 | 13.42 | 13.00 | 11.22 | 11.27 |
| Hopkins Marine Station, Calif. | 11.34 | 11.12 | 11.92 | 11.66 | 12.38 | 13.35 | 12.61 | 13.06 | 13.17 | 13.01 | 11.61 | 11.74 |
| Port San Luis, Calif. | 11.33 | 11.32 | 11.77 | 10.66 | 12.02 | 12.78 | 13.35 | 14.54 | 14.04 | 13.54 | 12.54 | 11.60 |
| Point Arguello, Calif. | 11.66 | 11.39 | 12.28 | 11.20 | 12.21 | 12.02 | 13.18 | | 13.44 | 13.94 | 14.13 | 12.79 |
| Gaviota, Calif. | 12.10 | 11.70 | 13.07 | 11.12 | 12.94 | 13.97 | 15.35 | 17.18 | 15.92 | | | |
| Santa Barbara, Calif. | 12.69 | 12.55 | 13.86 | 13.43 | 15.33 | 15.72 | 16.94 | 17.37 | 16.51 | 15.54 | 14.60 | 12.95 |
| Port Hueneme, Calif. | 12.58 | 11.89 | 14.09 | 12.91 | 13.95 | 14.56 | 15.74 | 15.95 | 15.99 | 15.33 | 14.40 | 12.81 |
| *Santa Cruz Is., California | 12.37 | 12.15 | 12.96 | 12.24 | 13.37 | 14.70 | 15.88 | 18.05 | 17.63 | 15.45 | 14.48 | 13.03 |

Surface Water
Monthly Mean Temperatures - 1955

| | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|--------------------------------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| *Anacapa Is., California | 13.01 | | 13.26 | 12.69 | 13.45 | 15.35 | 16.24 | 18.04 | 17.04 | 15.67 | 14.15 | 12.89 |
| Santa Monica, California | 12.98 | 12.30 | 14.23 | 12.76 | 14.97 | 16.89 | 17.83 | 18.42 | 18.14 | 15.71 | 15.02 | 13.08 |
| *Santa Rosa Is., California | | 11.90 | 12.35 | 11.33 | 12.65 | 13.65 | 13.78 | 14.24 | 15.67 | 15.01 | 13.45 | 13.18 |
| Marineland of the Pacific, Calif. | | | 14.91 | 13.74 | 15.02 | 16.32 | 17.00 | 16.78 | 16.95 | 15.45 | 16.10 | 14.56 |
| Huntington Beach, Calif. | 13.03 | 12.89 | 14.78 | 13.44 | 15.84 | 17.06 | 17.51 | 17.08 | 17.57 | 15.61 | 15.36 | 13.39 |
| Balboa, Calif. | 13.55 | 12.51 | 14.29 | 12.99 | 15.79 | 16.96 | 18.11 | 17.62 | 17.92 | 15.54 | 15.38 | 13.44 |
| Doheny Beach, Calif. | | | | | 17.73 | 18.59 | 19.83 | 19.58 | 19.16 | 16.32 | 15.10 | 13.18 |
| *Catalina Isthmus, Calif. | | | 14.30 | 15.08 | 16.10 | 17.79 | 19.28 | 20.55 | 19.42 | 16.55 | 15.61 | 13.97 |
| *Avalon, Cata- lina, Calif. | | 13.32 | 14.11 | 15.14 | 15.93 | 18.06 | 19.18 | 20.89 | 20.18 | | | |
| *San Nicholas Is., Calif. | 12.51 | 12.89 | 13.25 | 13.10 | 13.45 | 14.92 | 15.32 | 17.09 | 16.63 | 16.06 | 14.93 | 14.49 |
| Oceanside, Calif. | 13.04 | 12.40 | 13.48 | 13.25 | 17.42 | 17.75 | 19.17 | 19.14 | 19.33 | 16.31 | 15.09 | 13.22 |
| *San Clemente Is., Calif. | 13.44 | 13.40 | 14.45 | 14.35 | 14.56 | 16.38 | 17.55 | 16.28 | 15.91 | 9.70 | 12.68 | 11.36 |
| Scripps Pier, Calif. | 13.38 | 12.95 | 14.35 | 14.14 | 16.36 | 18.10 | 19.60 | 21.48 | 20.58 | 17.30 | 15.71 | 13.82 |

*Islands

Tables of Daily Surface Water Temperature

Daily Surface Water Temperatures (°C) for 1955

Swiftsure Bank Lightship, Washington 48°33'N, 125°00'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1 | | | 6.7 | | | | 11.4 | 13.5 | 10.3 | 11.7 | 11.1 | 8.4 |
| 2 | | | 6.8 | | | | 12.8 | 13.9 | 10.6 | 10.0 | 10.5 | 8.4 |
| 3 | | | 6.0 | | | | 11.3 | 12.7 | 10.3 | 10.3 | 10.8 | 8.6 |
| 4 | | | 6.5 | | | | 11.9 | 11.4 | 10.1 | 9.5 | 10.3 | 7.2 |
| 5 | | | 6.4 | | | | 10.9 | 11.6 | 10.0 | 10.3 | 10.9 | 8.4 |
| 6 | | | 6.2 | | | | 10.9 | 11.7 | 10.3 | 10.9 | 11.1 | 8.4 |
| 7 | | | 6.5 | | | | 11.1 | 10.6 | 10.0 | 10.3 | 11.4 | 8.1 |
| 8 | | | 6.7 | | | | 11.1 | 10.6 | 10.0 | 9.7 | 10.8 | 8.4 |
| 9 | | | 7.0 | | | | 12.2 | 11.1 | 10.3 | 10.6 | 10.5 | 8.4 |
| 10 | | | 6.8 | | | | 10.5 | 10.6 | 11.7 | 11.6 | 10.8 | 9.5 |
| 11 | | | 6.4 | | | | 11.1 | 11.4 | 12.0 | 11.1 | 8.9 | 8.1 |
| 12 | | | 6.8 | | | | 11.1 | 11.1 | 11.7 | | 9.2 | 8.9 |
| 13 | | | 6.6 | | | | 12.0 | 11.6 | 12.2 | 11.1 | 9.2 | 7.4 |
| 14 | | | 7.2 | | | | 11.4 | 12.2 | 11.7 | 11.7 | 8.6 | 7.2 |
| 15 | | | 7.1 | | | | 11.4 | 11.7 | 12.8 | 11.7 | 7.8 | 7.8 |
| 16 | | | 7.2 | | | | 10.3 | 11.1 | 12.2 | 10.6 | 7.2 | 7.4 |
| 17 | | | 6.8 | | | | 10.3 | 11.1 | 12.5 | 11.1 | 7.2 | 8.6 |
| 18 | | | 7.1 | | | 10.0 | 10.6 | 11.7 | 12.8 | 10.6 | 8.1 | 7.2 |
| 19 | | | | | | 10.0 | 10.9 | 10.6 | 11.1 | 9.5 | 8.9 | 4.7 |
| 20 | | | | | | 10.5 | 10.9 | 10.9 | 9.5 | 10.0 | 7.8 | 6.1 |
| 21 | | 8.4 | | | | 10.5 | 10.9 | 10.6 | 10.5 | 10.6 | 8.4 | 6.7 |
| 22 | | 7.2 | | | | 10.9 | 10.2 | 10.8 | 9.2 | 10.8 | 8.6 | 6.4 |
| 23 | | 8.1 | | | | 10.6 | 10.6 | 11.1 | 9.5 | 11.1 | 7.5 | 6.1 |
| 24 | | 7.0 | | | | 9.7 | 10.3 | 9.7 | 10.0 | 10.5 | 8.4 | |
| 25 | | 7.0 | | | | 9.5 | 10.9 | 11.1 | 9.7 | 10.6 | 8.4 | |
| 26 | | 7.0 | | | | 10.3 | 9.7 | 11.1 | 10.3 | 11.1 | 8.4 | 6.7 |
| 27 | | 6.7 | | | | 9.7 | 11.4 | 10.3 | 10.9 | 11.1 | 8.4 | 6.1 |
| 28 | | 6.9 | | | | 10.5 | 12.0 | 11.1 | 10.0 | 11.1 | 8.6 | |
| 29 | | | | | | 9.7 | 12.8 | 11.2 | 10.9 | 11.4 | 8.4 | |
| 30 | | | | | | 10.5 | 12.7 | 10.6 | 11.1 | 11.1 | 8.1 | 6.4 |
| 31 | | | | | | | 12.8 | 11.2 | | 11.1 | | 6.4 |
| Mean | | 7.3 | 6.7 | | | 10.2 | 11.2 | 11.3 | 10.8 | 10.8 | 9.1 | 7.5 |
| Max. | | 8.4 | 7.2 | | | 10.9 | 12.8 | 13.9 | 12.8 | 11.7 | 11.4 | 9.5 |
| Min. | | 6.7 | 6.0 | | | 9.5 | 9.7 | 9.7 | 9.2 | 9.5 | 7.2 | 4.7 |
| Range | | 1.7 | 1.2 | | | 1.4 | 3.1 | 4.2 | 3.6 | 2.2 | 4.2 | 4.8 |
| Std. Dev. | | .58 | .33 | | | .42 | .81 | .85 | 1.02 | .60 | 1.28 | 1.10 |

Daily Surface Water Temperatures (°C) for 1955

Columbia River Lightship, Oregon 46°11'N, 124°11'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | | 8.3 | 11.1 | 10.8 | 14.9 | | 13.3 | 13.0 | 10.2 | 9.4 |
| 2 | | | | 8.3 | 11.1 | 10.8 | 13.9 | | 11.8 | 13.0 | 11.1 | 9.3 |
| 3 | | | | 10.0 | 10.6 | 10.9 | 13.9 | | 11.9 | 13.1 | 10.2 | 9.2 |
| 4 | | | | 10.0 | 10.0 | 11.9 | | | 11.5 | 12.2 | 11.2 | 9.1 |
| 5 | | | | 10.0 | 10.6 | 12.6 | | | 9.8 | 13.0 | 11.1 | 9.2 |
| 6 | | | | 10.0 | 10.6 | 12.9 | | | 10.6 | 12.7 | 11.2 | 9.1 |
| 7 | | | | 10.0 | 10.0 | 12.5 | | | 12.1 | 12.2 | 10.6 | 9.1 |
| 8 | | | | 10.0 | 10.6 | 12.6 | | | 12.0 | 12.7 | 12.2 | 9.1 |
| 9 | | | 8.9 | 10.6 | 10.0 | 11.6 | | | 13.5 | 11.4 | 11.9 | 9.7 |
| 10 | | | 9.4 | 11.1 | 10.6 | 11.8 | | | 13.0 | 13.6 | 12.2 | 9.5 |
| 11 | | | 8.9 | 10.6 | 11.1 | 12.1 | | | 12.5 | 11.7 | 11.3 | 9.7 |
| 12 | | | 8.9 | 10.0 | 11.1 | 12.5 | | | 13.3 | 12.8 | 9.1 | |
| 13 | | | 9.4 | 10.0 | 11.7 | 11.6 | | | 13.7 | 12.6 | 7.5 | |
| 14 | | | 8.9 | 10.0 | 12.2 | 12.0 | | | 12.6 | 13.6 | 7.5 | |
| 15 | | | 8.9 | 10.0 | 11.7 | 12.2 | | 11.8 | 12.2 | 12.1 | 7.2 | |
| 16 | | | 8.9 | 10.0 | 12.2 | 12.2 | | 12.6 | 12.6 | 13.6 | 8.6 | |
| 17 | | | 9.4 | 10.0 | 12.8 | 11.6 | | 13.2 | 12.6 | 12.2 | 9.2 | |
| 18 | | | 8.9 | 10.0 | 11.0 | 12.3 | | 10.6 | 12.6 | 12.2 | 9.4 | |
| 19 | | | 9.4 | 10.0 | 12.0 | 12.5 | | 10.6 | | 12.2 | 8.8 | |
| 20 | | | 10.0 | 10.0 | 10.3 | 11.6 | | 11.2 | 13.6 | 12.2 | 10.0 | |
| 21 | | | 10.0 | 10.0 | 10.5 | 11.0 | | 12.8 | 13.4 | 12.2 | 9.7 | |
| 22 | | | 8.9 | 11.1 | 10.4 | | | 13.4 | 13.0 | 12.2 | 9.7 | |
| 23 | | | 8.9 | 10.6 | 11.5 | 14.0 | | 14.8 | 13.0 | 12.2 | 9.4 | |
| 24 | | | 8.9 | 11.7 | 11.7 | 12.0 | | 13.1 | 12.9 | 12.2 | 9.2 | |
| 25 | | | 8.9 | 11.1 | 11.3 | 14.0 | | 14.6 | 12.7 | 12.2 | 9.4 | |
| 26 | | | 9.4 | 11.1 | 11.2 | 14.2 | | 12.8 | 13.0 | 11.7 | 9.5 | |
| 27 | | | 9.4 | 10.6 | 11.2 | 14.4 | | 12.9 | 12.7 | 12.5 | 9.6 | |
| 28 | | | 8.9 | 10.0 | 11.9 | 13.4 | | 11.9 | 13.0 | 11.9 | 9.7 | |
| 29 | | | 8.3 | 10.0 | 11.9 | 13.9 | | 11.7 | 12.2 | 11.4 | 9.7 | |
| 30 | | | 8.3 | 11.1 | 11.2 | 14.0 | | 11.0 | 12.2 | 11.3 | 9.2 | |
| 31 | | | 9.4 | | 10.7 | | | 13.0 | | 10.5 | | |
| Mean | | | 9.1 | 10.2 | 11.1 | 12.4 | 14.2 | 12.5 | 12.5 | 12.3 | 9.8 | 9.3 |
| Max. | | | 10.0 | 11.7 | 12.8 | 14.4 | 14.9 | 14.8 | 13.7 | 13.6 | 12.2 | 9.7 |
| Min. | | | 8.3 | 8.3 | 10.0 | 10.8 | 13.9 | 10.6 | 9.8 | 10.5 | 7.2 | 9.1 |
| Range | | | 1.7 | 3.4 | 2.8 | 3.6 | 1.0 | 4.2 | 3.9 | 3.1 | 5.0 | .6 |
| Std. Dev. | | | .42 | .70 | .70 | 1.05 | .47 | 1.20 | .84 | .69 | 1.27 | .22 |

Daily Surface Water Temperatures (°C) for 1955

Port Orford, Oregon 42°45'N, 124°29'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | 7.3 | 8.1 | 9.4 | 10.4 | | | 10.0 | | 9.6 | |
| 2 | | | 7.5 | 8.4 | 9.8 | 10.4 | | | 10.0 | | 9.7 | |
| 3 | | | 7.8 | 8.4 | 9.8 | 10.4 | | | 10.1 | | 9.6 | |
| 4 | | | 7.4 | 8.5 | 9.8 | 10.4 | 10.2 | | 10.2 | | 9.6 | |
| 5 | | | 7.8 | 8.6 | 9.9 | 10.4 | 10.2 | | 10.0 | | 9.6 | |
| 6 | | | 7.9 | 8.6 | 9.9 | 10.4 | 10.3 | | 10.0 | | 9.5 | |
| 7 | | | 7.9 | 8.7 | 9.9 | 10.4 | 10.2 | | 9.9 | | | |
| 8 | | | 7.9 | 8.7 | 9.9 | 10.4 | 10.2 | | 9.9 | | | |
| 9 | | | 8.2 | 8.7 | 9.9 | 10.4 | 10.2 | | 9.8 | | | |
| 10 | | | 8.0 | 8.8 | 9.9 | 10.3 | 10.2 | | 9.9 | | | |
| 11 | | | 8.0 | 8.7 | 10.1 | 10.3 | 10.1 | | 9.9 | | | |
| 12 | | | 8.2 | 8.7 | 10.1 | 10.4 | 10.1 | | | | | 9.6 |
| 13 | | | 8.0 | 8.8 | 10.1 | | 10.0 | | | | | 9.6 |
| 14 | | | 8.2 | 8.8 | 9.9 | | 10.2 | | | | | 9.4 |
| 15 | | | 7.9 | 8.9 | 10.1 | | 10.3 | 9.8 | | | | 9.5 |
| 16 | | | 8.2 | 8.9 | 10.0 | | 10.2 | 9.7 | | | | 9.7 |
| 17 | | | 7.8 | 8.9 | 10.0 | | 10.2 | 9.7 | | 9.8 | | 9.5 |
| 18 | | 8.6 | 7.5 | 8.9 | 10.0 | | 10.2 | 9.9 | | 9.8 | | 9.5 |
| 19 | | 8.2 | 7.6 | 8.9 | 10.1 | | 10.2 | 10.1 | 10.0 | 9.6 | | 10.5 |
| 20 | | 7.9 | 7.7 | 8.9 | 10.1 | 9.7 | 10.2 | 10.1 | 10.0 | 9.5 | | 10.5 |
| 21 | | 7.5 | 6.9 | 8.9 | 10.1 | 9.7 | 10.3 | 10.1 | 10.1 | 9.6 | 8.4 | 10.4 |
| 22 | | 7.5 | 7.2 | 8.9 | 10.1 | 9.8 | 10.3 | 10.0 | 10.1 | 9.6 | 8.3 | 10.5 |
| 23 | | 7.4 | 7.6 | 9.2 | 10.2 | 9.8 | 10.2 | 9.9 | 10.2 | 9.5 | 8.2 | 10.5 |
| 24 | | 7.3 | 7.8 | 9.2 | 10.2 | 9.7 | 10.2 | 9.9 | 10.1 | 9.6 | 8.2 | 10.5 |
| 25 | | 7.2 | 7.9 | 9.0 | 10.3 | 9.6 | | 9.8 | 10.1 | 9.6 | 8.4 | 10.5 |
| 26 | | 7.2 | 7.9 | 9.0 | 10.3 | 9.7 | | 10.1 | | 9.5 | 9.2 | 9.7 |
| 27 | | 7.2 | 7.8 | 9.1 | 10.4 | | | 9.9 | | 9.7 | 9.5 | 9.8 |
| 28 | | 7.3 | 7.9 | 9.2 | 10.4 | | | 9.9 | | 9.6 | | 10.1 |
| 29 | | | 8.0 | 9.3 | 10.4 | | | 9.8 | | 9.6 | | 10.7 |
| 30 | | | 8.1 | 9.4 | 10.4 | | | 9.8 | | 9.7 | | 9.8 |
| 31 | | | 8.1 | | 10.4 | | | 10.0 | | 9.6 | | 9.9 |
| Mean | | 7.6 | 7.8 | 8.8 | 10.1 | 10.1 | 10.2 | 9.9 | 10.0 | 9.6 | 9.1 | 10.0 |
| Max. | | 8.6 | 8.2 | 9.4 | 10.4 | 10.4 | 10.3 | 10.1 | 10.2 | 9.8 | 9.7 | 10.7 |
| Min. | | 7.2 | 6.9 | 8.1 | 9.4 | 9.6 | 10.0 | 9.7 | 9.8 | 9.5 | 8.2 | 9.4 |
| Range | | 1.4 | 1.3 | 1.3 | 1.0 | .8 | .3 | .4 | .4 | .3 | 1.5 | 1.3 |
| Std. Dev. | | .44 | .31 | .28 | .23 | .33 | .07 | .13 | .11 | .09 | .61 | .44 |

Daily Surface Water Temperatures (°C) for 1955

Blunts Reef Lightship, California

40°27'N, 124°30'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | 9.0 | | 9.2 | 8.1 | 10.0 | 9.0 | | 9.1 | | 11.2 |
| 2 | | | 9.2 | | 9.0 | 7.5 | 9.8 | 9.1 | | | | 11.1 |
| 3 | | | 8.8 | | 9.4 | 7.4 | 9.5 | 9.0 | | | 9.2 | 9.2 |
| 4 | | | 8.8 | | 9.6 | 7.7 | 9.4 | 8.9 | | | 9.3 | 9.4 |
| 5 | | | 8.2 | | 9.3 | 7.6 | 9.0 | 8.9 | 9.1 | | 10.4 | 9.8 |
| 6 | | | 8.2 | | 9.8 | 7.3 | 8.9 | 8.9 | 9.3 | | 10.6 | 11.3 |
| 7 | | | 8.2 | | 9.6 | 7.3 | 8.7 | 9.9 | 9.7 | | | 10.2 |
| 8 | | | 9.0 | | 9.3 | 8.5 | 9.1 | 8.9 | 10.1 | | | 10.4 |
| 9 | | | 9.2 | | 8.9 | 8.6 | 9.3 | 9.4 | 9.1 | | | 10.7 |
| 10 | | | 9.2 | | 9.0 | 7.9 | 9.6 | 8.8 | 9.2 | | | 11.1 |
| 11 | | | 9.4 | | 9.2 | 8.3 | 9.5 | 8.9 | 9.4 | | | 11.2 |
| 12 | | | 9.3 | 8.2 | 9.1 | 8.5 | 9.3 | 8.6 | 9.2 | | | 10.5 |
| 13 | | | 9.6 | 8.2 | 8.6 | 8.1 | 9.3 | 8.6 | 9.2 | | | 11.0 |
| 14 | | 9.1 | 8.8 | 8.3 | 8.5 | 8.8 | 8.9 | 8.9 | 9.2 | | 10.0 | 10.6 |
| 15 | | 9.2 | 9.2 | 8.1 | 8.9 | 9.1 | 8.5 | 8.9 | 9.1 | | 8.8 | 10.0 |
| 16 | | 9.3 | 9.0 | 7.9 | 9.0 | 9.1 | 9.2 | 8.2 | 9.2 | | 9.1 | 12.2 |
| 17 | | 9.2 | 8.8 | 8.5 | 9.6 | 9.4 | 9.6 | 8.2 | 9.2 | | 9.5 | 11.6 |
| 18 | | 8.8 | 8.7 | 8.7 | 9.4 | 8.7 | 9.8 | 8.3 | 9.2 | | 9.1 | 11.4 |
| 19 | | 8.7 | 8.1 | 8.1 | 10.0 | 8.9 | 8.7 | 8.2 | 9.2 | | 9.2 | 10.6 |
| 20 | | 8.2 | 8.8 | 8.2 | 9.3 | 9.0 | 8.8 | 8.3 | 9.2 | | 9.1 | 10.4 |
| 21 | | 8.6 | 8.8 | 8.2 | 8.4 | 8.9 | 8.4 | 8.4 | 9.1 | | 11.0 | 10.8 |
| 22 | | 8.4 | 9.0 | 8.3 | 8.5 | 8.6 | 8.8 | 8.4 | 9.3 | | 9.5 | 11.2 |
| 23 | | 8.2 | 8.6 | 9.3 | 8.5 | 9.6 | 8.6 | 8.9 | 8.7 | | 10.5 | 12.4 |
| 24 | | 8.4 | 8.2 | 8.5 | 8.2 | 10.1 | 8.6 | 8.8 | 9.1 | | 10.5 | 11.8 |
| 25 | | 8.5 | | 8.2 | 8.0 | 10.0 | 8.9 | 9.0 | 9.3 | | 11.5 | 11.2 |
| 26 | | 8.7 | | 8.2 | 7.8 | 10.3 | 9.7 | 9.4 | 8.4 | | 11.6 | 12.6 |
| 27 | | 8.2 | | 8.0 | 8.2 | 10.1 | 9.6 | 9.1 | 8.9 | | 11.5 | 12.5 |
| 28 | | 9.1 | | 8.3 | 8.6 | 9.8 | 8.7 | 9.0 | 9.1 | | 11.2 | 11.6 |
| 29 | | | | 8.3 | 8.9 | 10.1 | 8.9 | | 9.2 | | 11.2 | 11.5 |
| 30 | | | | 8.3 | 7.8 | 9.9 | 9.5 | | 9.1 | | 11.0 | 11.6 |
| 31 | | | | | 7.7 | | 9.0 | | | | | 11.5 |
| Mean | | 8.7 | 8.8 | 8.3 | 8.9 | 8.8 | 9.2 | 8.8 | 9.2 | 9.1 | 10.2 | 11.0 |
| Max. | | 9.3 | 9.6 | 9.3 | 10.0 | 10.3 | 10.0 | 9.9 | 10.1 | 9.1 | 11.6 | 12.6 |
| Min. | | 8.2 | 8.1 | 7.9 | 7.7 | 7.3 | 8.4 | 8.2 | 8.4 | 9.1 | 8.8 | 9.2 |
| Range | | 1.1 | 1.5 | 1.4 | 2.3 | 3.0 | 1.6 | 1.7 | 1.7 | .0 | 2.8 | 3.4 |
| Std. Dev. | | .38 | .41 | .29 | .60 | .92 | .43 | .39 | .29 | .0 | .94 | .82 |

Daily Surface Water Temperatures (°C) for 1955

Fort Ross, California 38°27'N, 123°07'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1 | | | | | | | | | | | 9.4 | 9.5 |
| 2 | | | | | | | | | | | 9.1 | 9.4 |
| 3 | | | | | | | | | | | 9.4 | 9.2 |
| 4 | | | | | | | | | | | 9.3 | 9.0 |
| 5 | | | | | | | | 12.2 | | | 9.3 | 8.9 |
| 6 | | | | | | | | 12.3 | | | 9.8 | 9.2 |
| 7 | | | | | | | | 11.6 | | | 10.1 | 9.3 |
| 8 | | | | | | | | 11.3 | | | 10.1 | 9.8 |
| 9 | | | | | | | | 10.5 | | | 10.2 | 10.1 |
| 10 | | | | | | | | 10.3 | | | 10.3 | 10.2 |
| 11 | | | | | | | | 9.3 | | | 9.5 | 10.3 |
| 12 | | | | | | | | 9.2 | | | 9.1 | 10.0 |
| 13 | | | | | | | | 9.6 | | | 8.8 | 9.8 |
| 14 | | | | | | | | 9.8 | | | 8.8 | 10.6 |
| 15 | | | | | | | | 8.8 | | | 9.1 | |
| 16 | | | | | | | | 8.7 | | | 8.8 | |
| 17 | | | | | | | | 10.3 | | | 8.9 | |
| 18 | | | | | | | | 10.5 | | | 9.3 | |
| 19 | | | | | | | | 10.5 | | 9.5 | 9.5 | |
| 20 | | | | | | | | 10.4 | | 9.8 | 9.6 | |
| 21 | | | | | | | | 10.9 | | 9.8 | 9.6 | |
| 22 | | | | | | | | 10.6 | | 9.7 | 9.4 | |
| 23 | | | | | | | | 9.8 | | 9.9 | 9.3 | |
| 24 | | | | | | | | 10.7 | | 9.8 | 9.7 | |
| 25 | | | | | | | | 9.3 | | 9.9 | 9.4 | |
| 26 | | | | | | | | | | 9.5 | 9.9 | |
| 27 | | | | | | | | | | 8.8 | 9.9 | |
| 28 | | | | | | | | | | | 9.8 | |
| 29 | | | | | | | | | | | 9.6 | |
| 30 | | | | | | | | | | | 9.6 | |
| 31 | | | | | | | | | | 9.7 | | |
| Mean | | | | | | | | 10.3 | | 9.6 | 9.5 | 9.7 |
| Max. | | | | | | | | 12.3 | | 9.9 | 10.3 | 10.6 |
| Min. | | | | | | | | 8.7 | | 8.8 | 8.8 | 8.9 |
| Range | | | | | | | | 3.6 | | 1.1 | 1.5 | 1.7 |
| Std. Dev. | | | | | | | | .98 | | .31 | .41 | .51 |

Daily Surface Water Temperatures (°C) for 1955

Farallon Island, California 37°42'N, 123°00'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | 10.4 | 10.1 | 9.8 | 9.0 | 10.5 | 11.0 | 11.1 | 11.8 | 9.9 | 10.4 |
| 2 | | | 10.4 | 10.0 | 9.9 | 9.2 | 9.4 | 10.8 | 10.6 | 12.0 | 10.0 | 10.4 |
| 3 | | | 10.5 | 10.0 | 9.9 | 9.6 | 9.4 | 10.1 | 10.8 | 11.8 | 10.1 | 10.3 |
| 4 | | | 10.2 | 10.0 | 10.0 | 9.8 | 9.5 | 9.9 | 11.1 | 11.8 | 10.5 | 10.4 |
| 5 | | | 10.2 | 9.4 | 10.0 | 9.8 | 9.8 | 10.4 | 10.4 | 11.2 | 10.6 | 10.7 |
| 6 | | | 10.4 | 10.0 | 10.2 | 10.4 | 9.8 | 10.9 | 11.8 | 10.8 | 10.6 | 10.8 |
| 7 | | | 10.4 | 10.5 | 10.1 | 11.0 | 9.7 | 10.8 | 11.9 | 11.0 | 10.7 | 10.6 |
| 8 | | | 10.8 | 10.3 | 10.2 | 10.0 | 10.0 | 12.5 | 11.7 | 11.4 | 10.8 | 10.8 |
| 9 | | 10.5 | 10.5 | 10.0 | 10.5 | 10.0 | 9.8 | 11.2 | 12.4 | 11.2 | 10.6 | 11.2 |
| 10 | | 10.3 | 10.8 | 10.5 | 10.3 | 9.9 | 10.1 | 10.1 | 11.7 | 11.4 | 11.3 | 11.4 |
| 11 | | 10.4 | 10.8 | 9.9 | 10.8 | 9.9 | 9.8 | 10.5 | 11.4 | 11.4 | 10.5 | 11.4 |
| 12 | | 10.3 | 11.0 | 9.6 | 11.0 | 9.9 | 9.9 | 10.6 | 11.1 | 11.4 | 9.8 | 11.4 |
| 13 | | 10.3 | 10.8 | 9.8 | 10.2 | 10.9 | 9.7 | 10.0 | 10.8 | 11.4 | 9.6 | 11.0 |
| 14 | | 10.4 | 10.7 | 9.3 | 9.8 | 11.0 | 10.3 | | 10.4 | 11.2 | 9.6 | 11.4 |
| 15 | | 10.4 | 10.0 | 9.8 | 9.7 | 10.5 | 9.8 | 10.9 | 11.4 | 11.8 | 9.6 | 11.3 |
| 16 | | 10.4 | 10.2 | 9.3 | 9.1 | 10.5 | 9.9 | 10.8 | 10.7 | 11.5 | 9.5 | 11.7 |
| 17 | | 10.4 | 10.4 | 9.4 | 9.0 | 10.6 | 10.2 | 11.7 | 10.4 | 11.7 | 9.9 | 11.6 |
| 18 | | 10.3 | 10.2 | 9.3 | 9.0 | 11.2 | 10.2 | 11.1 | 11.6 | 11.8 | 10.0 | 11.6 |
| 19 | | 10.4 | 10.4 | 9.3 | 9.1 | 11.0 | 10.1 | 10.9 | 12.0 | 11.9 | 10.1 | |
| 20 | | 10.4 | 10.1 | 9.4 | 9.0 | 10.4 | 10.0 | 10.5 | 12.4 | 11.9 | 9.8 | 11.8 |
| 21 | | 10.4 | 10.2 | 9.6 | 9.0 | 10.6 | 9.8 | 10.4 | 12.4 | 11.7 | 10.6 | 11.9 |
| 22 | | 10.4 | 10.1 | 10.0 | 9.3 | 10.5 | 10.0 | 10.4 | 13.0 | 12.0 | 10.3 | 11.8 |
| 23 | | 10.4 | 10.1 | 10.0 | 9.6 | 9.8 | 10.2 | 10.2 | 13.4 | 11.4 | 10.0 | 11.8 |
| 24 | | 10.4 | 10.1 | 9.8 | 9.8 | 10.0 | 10.0 | 10.8 | 12.6 | 12.0 | 10.4 | 11.6 |
| 25 | | 10.4 | 10.0 | 9.4 | 10.6 | 10.1 | 10.2 | 10.8 | 12.0 | 11.4 | 10.8 | 11.5 |
| 26 | | 10.4 | 10.1 | 10.2 | 9.8 | 10.2 | 10.1 | 11.2 | 11.7 | 11.8 | 11.3 | 11.6 |
| 27 | | 10.3 | 10.0 | 9.9 | 9.6 | 10.4 | 10.2 | 11.6 | 12.3 | 11.7 | 10.3 | 11.5 |
| 28 | | 10.2 | 10.0 | 10.0 | 9.4 | 10.1 | 10.2 | 11.4 | 12.3 | 11.6 | 11.8 | 11.3 |
| 29 | | | 10.0 | 10.4 | 9.8 | 10.2 | 10.0 | 11.1 | 12.2 | 11.6 | 10.4 | 11.4 |
| 30 | | | 10.0 | 10.0 | 9.6 | 10.0 | 10.3 | 10.9 | 11.6 | 11.7 | 10.3 | 11.3 |
| 31 | | | 10.0 | | 9.8 | | 11.1 | 10.9 | | 10.4 | | 11.4 |
| Mean | | 10.4 | 10.3 | 10.3 | 9.8 | 10.2 | 10.0 | 10.8 | 11.6 | 11.5 | 10.3 | 11.2 |
| Max. | | 10.5 | 11.0 | 10.5 | 11.0 | 11.2 | 11.1 | 12.5 | 13.4 | 12.0 | 11.8 | 11.9 |
| Min. | | 10.2 | 10.0 | 9.3 | 9.0 | 9.0 | 9.4 | 9.9 | 10.4 | 10.4 | 9.5 | 10.3 |
| Range | | .3 | 1.0 | 1.2 | 2.0 | 2.2 | 1.8 | 2.6 | 3.0 | 1.6 | 2.3 | 1.6 |
| Std. Dev. | | .07 | .30 | .36 | .52 | .51 | .34 | .54 | .78 | .37 | .53 | .47 |

Daily Surface Water Temperatures (°C) for 1955

Santa Cruz, Calif. 36°58'N, 122°00'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | 10.8 | 10.0 | 11.0 | 11.5 | 11.0 | 12.9 | 12.2 | 13.6 | 13.6 | 12.1 | |
| 2 | | 10.5 | 10.1 | 10.0 | | 11.9 | 12.4 | 13.0 | 13.4 | 13.4 | | 11.6 |
| 3 | | 10.2 | | 9.8 | 11.1 | 11.7 | | 13.2 | | 13.2 | 11.6 | 11.6 |
| 4 | | 9.8 | 10.0 | 9.8 | 11.0 | 12.3 | | 13.4 | | 13.6 | 11.5 | 10.8 |
| 5 | | 10.2 | 10.2 | 9.6 | 11.5 | | 11.1 | 13.2 | 13.3 | 13.4 | 11.8 | 10.9 |
| 6 | | 10.5 | 10.2 | | 11.2 | 12.7 | 10.7 | | 13.4 | 13.2 | 11.9 | |
| 7 | | 10.4 | 10.2 | 10.6 | | 12.6 | | 13.6 | 13.6 | 13.0 | 11.7 | 11.0 |
| 8 | | 10.2 | 10.1 | 10.9 | 11.9 | 12.7 | 11.2 | 14.1 | 14.1 | 13.0 | 11.7 | 11.0 |
| 9 | | 10.4 | 11.3 | 11.2 | 11.7 | 13.0 | 12.7 | 14.4 | 14.0 | 13.1 | 11.8 | 10.8 |
| 10 | | 10.1 | 11.4 | 12.0 | 12.3 | 12.9 | 11.5 | 14.7 | 14.0 | 12.8 | 11.9 | 10.8 |
| 11 | | | 11.4 | | 12.7 | 12.6 | 12.4 | 14.0 | 14.3 | 12.9 | 11.7 | 10.9 |
| 12 | | 10.6 | 11.5 | | 13.3 | 12.8 | 13.9 | | 13.7 | 13.0 | | 11.1 |
| 13 | | 10.6 | 11.4 | 10.6 | 13.0 | 12.4 | 13.6 | 14.4 | 14.0 | 12.9 | 11.0 | |
| 14 | | 11.0 | 10.9 | 10.2 | 12.4 | 12.3 | 12.8 | 13.7 | 13.9 | 12.8 | 10.1 | 11.0 |
| 15 | | 10.6 | 11.0 | 10.5 | 12.2 | 12.2 | 12.2 | 13.7 | 13.6 | 12.8 | 10.7 | 11.4 |
| 16 | | 10.8 | 10.8 | 10.8 | 11.2 | 12.3 | 12.0 | 13.2 | 13.2 | 13.4 | 10.6 | 11.2 |
| 17 | | 11.4 | | 10.8 | 12.0 | 12.3 | 12.1 | 13.4 | 12.3 | 13.1 | 10.6 | 11.4 |
| 18 | | 10.4 | 11.6 | | 13.0 | 13.3 | 12.9 | 13.4 | 11.0 | | 10.7 | 11.6 |
| 19 | | 9.6 | 11.5 | | 13.1 | 13.2 | 13.1 | 13.6 | 12.4 | 12.8 | 11.0 | 11.8 |
| 20 | | 9.8 | 10.1 | | 12.9 | 13.4 | 12.8 | 13.2 | 13.2 | 12.9 | 11.2 | 12.1 |
| 21 | | 9.8 | 10.4 | 10.1 | 13.2 | 13.7 | | | 12.7 | 12.8 | 11.1 | 12.1 |
| 22 | | 10.2 | | 10.0 | 12.5 | 13.3 | 12.9 | 12.3 | 13.4 | 12.9 | 10.5 | |
| 23 | | 10.5 | 10.8 | 10.2 | | 13.5 | 12.5 | 12.8 | 13.6 | 12.7 | 10.8 | |
| 24 | | 10.3 | 11.0 | 10.0 | | 13.5 | | 13.0 | 13.4 | 12.7 | | |
| 25 | | 10.6 | 11.1 | 10.0 | 10.0 | 13.0 | 13.0 | 12.8 | 13.7 | | | |
| 26 | | 10.2 | 11.9 | | 10.8 | 11.5 | 12.5 | 12.7 | 13.2 | 13.2 | | |
| 27 | | 10.2 | 12.4 | | 11.2 | 11.6 | 13.2 | 13.1 | 13.8 | 12.8 | 10.5 | |
| 28 | | 10.0 | 11.3 | 10.4 | 11.7 | 13.3 | 13.0 | 13.4 | 13.6 | 12.9 | 11.1 | 11.4 |
| 29 | | | | 10.6 | | 11.6 | 12.9 | 13.7 | 13.4 | | | 11.4 |
| 30 | | | 11.0 | 10.8 | | 13.1 | 13.2 | 13.3 | 13.6 | 12.7 | 11.6 | 11.3 |
| 31 | | | 11.1 | | 9.6 | | 13.0 | 13.8 | | 12.1 | | 11.0 |
| Mean | | 10.4 | 10.9 | 10.4 | 11.9 | 12.6 | 12.6 | 13.4 | 13.4 | 13.0 | 11.2 | 11.3 |
| Max. | | 11.4 | 12.4 | 12.0 | 13.3 | 13.7 | 13.9 | 14.7 | 14.3 | 13.6 | 12.1 | 12.1 |
| Min. | | 9.6 | 10.0 | 9.6 | 9.6 | 11.0 | 10.7 | 12.2 | 11.0 | 12.1 | 10.1 | 10.8 |
| Range | | 1.8 | 2.4 | 2.5 | 3.7 | 2.7 | 3.2 | 2.5 | 3.4 | 1.6 | 2.0 | 1.4 |
| Std. Dev. | | .38 | .63 | .56 | .97 | .68 | .75 | .59 | .66 | .30 | .55 | .38 |

Daily Surface Water Temperatures (°C) for 1955

Hopkins Marine Station, California

36°38'N, 121°55'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 12.1 | 12.0 | 11.0 | 11.7 | 11.6 | 10.7 | 12.4 | 12.7 | 13.0 | 13.7 | 11.8 | 11.4 | |
| 2 | 11.9 | 11.2 | 11.0 | 11.1 | 11.2 | 11.5 | 13.4 | 13.3 | 13.2 | 13.6 | 12.1 | 11.4 | |
| 3 | 11.6 | 11.1 | 11.3 | 11.2 | 11.1 | 11.6 | 13.5 | 12.5 | 12.3 | 13.2 | 12.2 | 11.0 | |
| 4 | 11.5 | 11.6 | 11.2 | 12.0 | 11.7 | 12.1 | 12.6 | 12.5 | 12.4 | 14.1 | 11.6 | 10.9 | |
| 5 | 11.6 | 11.4 | 11.3 | 11.8 | 11.9 | 13.2 | 12.9 | 13.0 | 13.0 | 14.0 | 11.6 | 10.8 | |
| 6 | 11.2 | 11.6 | 11.4 | 12.0 | 12.1 | 13.6 | 12.8 | 13.8 | 12.8 | 14.1 | 11.5 | 11.6 | |
| 7 | 11.1 | 11.4 | 11.5 | 12.4 | 12.3 | 13.9 | 12.7 | 14.6 | 13.1 | 13.8 | 11.8 | 11.3 | |
| 8 | 10.8 | 10.9 | 11.5 | 12.6 | 12.3 | 13.7 | 13.5 | 14.7 | 13.4 | 13.1 | 11.8 | 11.3 | |
| 9 | 10.9 | 11.3 | 12.0 | 12.8 | 12.8 | 13.5 | 13.6 | 14.1 | 12.9 | 12.4 | 11.8 | 12.0 | |
| 10 | 11.0 | 11.2 | 11.9 | 13.4 | 13.4 | 13.3 | 13.8 | 14.0 | 13.2 | 12.1 | 12.0 | 11.7 | |
| 11 | 10.8 | 10.9 | 12.4 | 12.3 | 13.7 | 13.0 | 12.6 | 14.0 | 11.5 | 12.4 | 12.0 | 11.9 | |
| 12 | 10.9 | 11.1 | 11.9 | 12.0 | 13.3 | 13.5 | 12.2 | 12.8 | 12.5 | 13.1 | 11.5 | 11.8 | |
| 13 | 11.3 | 11.0 | 12.1 | 12.1 | 13.5 | 12.8 | 12.3 | 13.0 | 12.4 | 12.7 | 11.4 | 11.8 | |
| 14 | 10.9 | 10.5 | 12.0 | 12.2 | 13.1 | 12.8 | 12.4 | 13.0 | 13.0 | 12.1 | 11.1 | 11.7 | |
| 15 | 11.3 | 10.8 | 12.4 | 11.8 | 12.5 | 13.3 | 12.5 | 13.5 | 13.0 | 12.3 | 10.9 | 11.4 | |
| 16 | 11.5 | 11.2 | 12.4 | 11.8 | 12.7 | 13.5 | 12.6 | 13.4 | 13.1 | 11.9 | 10.9 | 11.7 | |
| 17 | 11.7 | 11.6 | 12.7 | 11.1 | 13.4 | 14.2 | 12.3 | 12.9 | 12.9 | 12.3 | 10.8 | 12.0 | |
| 18 | 11.1 | 11.3 | 12.5 | 10.8 | 13.4 | 14.5 | 12.3 | 13.0 | 13.0 | 12.5 | 11.1 | 11.9 | |
| 19 | 11.6 | 10.8 | 12.5 | 10.5 | 13.2 | 14.2 | 12.6 | 13.2 | 12.5 | 12.6 | 11.9 | 11.8 | |
| 20 | 11.5 | 11.2 | 12.1 | 10.9 | 13.6 | 14.4 | 12.4 | 12.8 | 13.0 | 13.1 | 11.7 | 12.1 | |
| 21 | 11.6 | 11.0 | 11.6 | 10.6 | 11.5 | 14.7 | 12.7 | 12.7 | 13.2 | 13.4 | 12.3 | 12.3 | |
| 22 | 11.7 | 10.9 | 12.2 | 11.1 | 11.2 | 15.4 | 12.9 | 12.4 | 13.1 | 13.3 | 12.3 | 12.4 | |
| 23 | 11.6 | 11.0 | 11.6 | 11.9 | 11.4 | 15.1 | 11.9 | 12.8 | 13.5 | 13.1 | 11.6 | 12.6 | |
| 24 | 11.4 | 10.8 | 11.9 | 11.2 | 12.0 | 12.9 | 11.6 | 12.0 | 14.0 | 13.5 | 11.7 | 12.4 | |
| 25 | 11.4 | 11.1 | 12.7 | 11.2 | 12.3 | 12.9 | 10.9 | 12.0 | 14.0 | 13.6 | 11.2 | 12.0 | |
| 26 | 11.3 | 10.8 | 12.6 | 11.0 | 12.2 | 13.0 | 12.2 | 12.6 | 14.5 | 13.5 | 11.4 | 12.6 | |
| 27 | 11.2 | 10.8 | 13.0 | 11.2 | 12.1 | 13.3 | 13.1 | 12.7 | 14.3 | 12.8 | 11.7 | 12.2 | |
| 28 | 11.1 | 10.9 | 12.9 | 11.6 | 11.9 | 13.9 | 12.9 | 12.6 | 14.4 | 12.8 | 11.5 | 12.1 | |
| 29 | 10.8 | | 11.3 | 11.9 | 13.4 | 13.2 | 12.2 | 12.9 | 14.0 | 13.6 | 11.6 | 11.9 | |
| 30 | 11.5 | | 11.2 | 11.7 | 12.3 | 12.7 | 12.4 | 12.6 | 13.9 | 12.1 | 11.5 | 10.3 | |
| 31 | 11.7 | | 11.3 | | 10.8 | | 12.6 | 12.7 | | 12.4 | | 11.7 | |
| Mean | 11.3 | 11.1 | 11.9 | 11.7 | 12.4 | 13.4 | 12.6 | 13.1 | 13.2 | 13.0 | 11.6 | 11.7 | 12.2 |
| Max. | 12.1 | 12.0 | 13.0 | 13.4 | 13.7 | 15.4 | 13.8 | 14.7 | 14.5 | 14.1 | 12.3 | 12.6 | 15.4 |
| Min. | 10.8 | 10.5 | 11.0 | 10.5 | 10.8 | 10.7 | 10.9 | 12.0 | 11.5 | 11.9 | 10.8 | 10.3 | 10.3 |
| Range | 1.3 | 1.5 | 2.0 | 2.9 | 2.9 | 4.7 | 2.9 | 2.7 | 3.0 | 2.2 | 1.5 | 2.3 | |
| Std. Dev. | .34 | .32 | .58 | .66 | .83 | 1.01 | .58 | .56 | .67 | .64 | .39 | .52 | |

Daily Surface Salinities (‰) for 1955.

Hopkins Marine Station, California 36°38'N, 121°55'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1 | 33.22 | 33.53 | 33.28 | 33.41 | 33.27 | 33.86 | 33.82 | 33.63 | 33.85 | | | 33.39 |
| 2 | 33.38 | 33.38 | 33.38 | 33.48 | 33.58 | 33.88 | 33.84 | 33.76 | 33.81 | | 33.73 | 33.46 |
| 3 | 33.44 | 33.42 | 33.37 | 33.44 | 33.55 | 33.87 | 33.79 | 33.78 | 33.82 | | 33.73 | 33.48 |
| 4 | 33.38 | 33.44 | 33.47 | 33.41 | 33.54 | 33.89 | 33.80 | 33.66 | 33.81 | | 33.76 | 33.42 |
| 5 | 33.42 | 33.34 | 33.38 | 33.39 | 33.50 | 33.89 | 33.80 | 33.58 | 33.80 | | 33.69 | 33.51 |
| 6 | 33.47 | 33.33 | 33.44 | 33.44 | 33.49 | 33.87 | 33.81 | 33.53 | 33.82 | | 33.67 | 33.31 |
| 7 | 33.49 | 33.34 | 33.41 | 33.42 | 33.44 | 33.78 | 33.86 | 33.54 | 33.81 | | 33.68 | 33.47 |
| 8 | 33.42 | 33.36 | 33.48 | 33.40 | 33.39 | 33.58 | 33.82 | 33.56 | 33.80 | | 33.69 | 33.48 |
| 9 | 33.40 | 33.40 | 33.37 | 33.40 | 33.40 | 33.56 | 33.80 | 33.58 | 33.77 | | 33.68 | 33.48 |
| 10 | 33.51 | 33.41 | 33.39 | 33.55 | 33.53 | 33.60 | 33.68 | 33.58 | 33.77 | | 33.65 | 33.49 |
| 11 | 33.46 | 33.50 | 33.33 | 33.54 | 33.50 | 33.64 | 33.89 | 33.61 | 33.81 | | 33.60 | 33.46 |
| 12 | 33.50 | 33.46 | 33.33 | 33.47 | 33.57 | 33.56 | 33.87 | 33.62 | 33.77 | | 33.62 | 33.48 |
| 13 | 33.39 | 33.47 | 33.44 | 33.40 | 33.54 | 33.60 | 33.91 | 33.66 | 33.80 | | 33.60 | 33.48 |
| 14 | 33.44 | 33.46 | 33.40 | 33.37 | 33.42 | 33.63 | 33.87 | 33.68 | 33.77 | | 33.51 | 33.47 |
| 15 | 33.33 | 33.49 | 33.44 | 33.34 | 33.49 | 33.66 | 33.86 | 33.64 | 33.76 | | 33.62 | 33.50 |
| 16 | 33.28 | 33.27 | 33.35 | 33.49 | 33.53 | 33.65 | 33.86 | 33.65 | 33.71 | | 33.58 | 33.48 |
| 17 | 33.21 | 33.17 | 33.34 | 33.47 | 33.62 | 33.62 | 33.84 | 33.66 | 33.75 | | 33.47 | 33.51 |
| 18 | 33.26 | 33.35 | 33.34 | 33.48 | 33.55 | 33.67 | 33.74 | 33.63 | 33.71 | | 33.44 | 33.49 |
| 19 | 33.18 | 33.53 | 33.36 | 33.51 | 33.48 | 33.66 | 33.80 | 33.64 | 33.75 | | 33.43 | 33.51 |
| 20 | 33.26 | 33.47 | 33.46 | 33.47 | 33.47 | 33.62 | 33.82 | 33.70 | 33.71 | | 33.42 | 33.51 |
| 21 | 33.30 | 33.46 | 33.37 | 33.50 | 33.57 | 33.63 | 33.69 | 33.71 | 33.69 | | 33.43 | 33.48 |
| 22 | 33.34 | 33.38 | 33.38 | 33.41 | 33.44 | 33.26 | 33.72 | 33.72 | 33.69 | | 33.42 | 33.46 |
| 23 | 33.39 | 33.46 | 33.37 | 33.41 | 33.57 | 33.55 | 33.82 | 33.72 | 33.64 | | 33.41 | 32.84 |
| 24 | 33.44 | 33.39 | 33.44 | 33.42 | 33.57 | 33.66 | 33.84 | 33.73 | 33.66 | | 33.46 | 33.22 |
| 25 | 33.44 | 33.34 | 33.54 | 33.41 | 33.60 | 33.69 | 33.82 | 33.76 | 33.62 | | 33.49 | 32.72 |
| 26 | 33.44 | 33.40 | 33.49 | 33.40 | 33.79 | 33.69 | | 33.77 | 33.61 | | 33.48 | 32.74 |
| 27 | 33.41 | 33.37 | 33.49 | 33.44 | 33.83 | 33.69 | 33.80 | 33.73 | 33.66 | | 33.48 | 32.93 |
| 28 | 33.46 | 33.37 | 33.44 | 33.39 | 33.82 | 33.70 | 33.82 | 33.77 | 33.64 | | 33.48 | 32.86 |
| 29 | 33.46 | | 33.40 | 33.40 | 33.85 | 33.69 | | 33.76 | 33.67 | | 33.44 | 32.87 |
| 30 | 33.31 | | 33.37 | 33.42 | 33.84 | 33.75 | 33.86 | 33.78 | 33.66 | | 33.46 | 32.03 |
| 31 | 33.34 | | 33.42 | | 33.86 | | 33.85 | 33.84 | | | | 32.83 |
| Mean | 33.38 | 33.40 | 33.40 | 33.44 | 33.57 | 33.68 | 33.82 | 33.68 | 33.74 | | 33.56 | 33.27 |
| Max. | 33.51 | 33.53 | 33.54 | 33.55 | 33.86 | 33.89 | 33.91 | 33.84 | 33.85 | | 33.76 | 33.51 |
| Min. | 33.18 | 33.17 | 33.28 | 33.34 | 33.27 | 33.26 | 33.68 | 33.53 | 33.61 | | 33.41 | 32.03 |
| Range | .33 | .36 | .26 | .21 | .59 | .63 | .23 | .31 | .24 | | .35 | .48 |
| Std. Dev. | .09 | .08 | .06 | .05 | .15 | .13 | .05 | .08 | .07 | | .11 | .35 |

Daily Surface Water Temperatures (°C) for 1955

Port San Luis, California 35°10'N, 120°45'

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> | |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------|
| 1 | 11.8 | 11.7 | 11.2 | 11.1 | 11.5 | 11.4 | 12.8 | 14.0 | 14.4 | 13.8 | 13.1 | 11.5 | |
| 2 | 11.5 | 11.4 | 11.5 | 11.4 | 11.0 | 11.3 | 12.4 | 14.2 | 15.0 | 14.1 | 13.0 | 11.5 | |
| 3 | 11.5 | 11.4 | 11.7 | 11.4 | 11.0 | 12.8 | 13.6 | 14.6 | 14.7 | | 12.8 | 11.0 | |
| 4 | 11.2 | 11.8 | 11.7 | 10.8 | 11.4 | 12.6 | 12.1 | 15.0 | 14.9 | | 12.8 | 11.0 | |
| 5 | 11.3 | 11.5 | 11.7 | 9.5 | 12.5 | 12.8 | 12.1 | 16.0 | 14.7 | | 13.0 | 11.4 | |
| 6 | 11.2 | 11.8 | 11.6 | 9.8 | 11.6 | 13.0 | 13.0 | 16.2 | 14.8 | | 13.0 | 11.3 | |
| 7 | | 11.8 | 11.5 | 10.4 | 11.0 | 14.2 | 13.0 | 16.1 | 14.9 | | 13.0 | 11.2 | |
| 8 | 10.8 | 10.6 | 11.8 | 10.7 | 11.8 | 13.8 | 12.8 | 15.8 | 14.9 | | 13.0 | 11.1 | |
| 9 | 11.2 | 10.7 | 11.9 | 11.4 | 12.4 | 13.8 | 11.3 | 15.7 | 14.6 | | | 11.1 | |
| 10 | 11.1 | 10.8 | 12.0 | 9.8 | 12.4 | | 12.9 | 15.5 | 14.0 | 13.9 | 13.1 | 11.2 | |
| 11 | 11.9 | 10.6 | 12.6 | 10.6 | 12.2 | 11.2 | 12.2 | 15.4 | 14.0 | 13.9 | 13.2 | 11.3 | |
| 12 | 11.6 | 10.7 | 13.4 | 10.4 | | 12.5 | 12.4 | 15.3 | 14.0 | 13.4 | | 11.1 | |
| 13 | 11.1 | 10.8 | 13.2 | 10.2 | 13.2 | 12.8 | 12.4 | 14.4 | 14.2 | 13.9 | 13.2 | 11.2 | |
| 14 | 11.1 | 11.2 | 12.2 | 10.6 | 12.2 | 13.3 | 14.2 | 14.3 | 14.5 | 13.7 | 13.5 | 11.5 | |
| 15 | 10.9 | 11.4 | 12.2 | 10.4 | 12.2 | 13.7 | 13.5 | 14.4 | 15.2 | 13.6 | 13.0 | 11.6 | |
| 16 | 11.2 | 11.5 | 11.3 | 10.4 | | 13.3 | 14.3 | 14.2 | 13.7 | | 12.8 | 11.5 | |
| 17 | 11.1 | 11.5 | 11.0 | 10.5 | 11.4 | 12.8 | 15.0 | 14.4 | 13.6 | 13.2 | 12.6 | 11.5 | |
| 18 | 11.1 | 11.8 | 11.2 | 10.4 | 12.1 | 13.4 | 14.2 | 13.1 | 13.8 | 13.3 | 12.5 | 11.5 | |
| 19 | 11.2 | 11.4 | 11.4 | 10.5 | 11.6 | 12.9 | 15.2 | 14.8 | 13.7 | 13.2 | 12.5 | 11.6 | |
| 20 | 11.3 | 11.3 | 11.6 | 10.5 | 13.1 | 13.6 | 14.4 | 14.6 | | 13.2 | 12.5 | 11.6 | |
| 21 | 11.3 | 11.4 | 11.2 | 10.4 | 12.8 | 13.1 | 13.5 | 14.6 | 13.8 | 13.4 | 12.6 | 11.4 | |
| 22 | 11.4 | 11.3 | 11.2 | | 12.8 | 13.9 | 13.4 | 13.7 | 13.7 | 13.2 | 12.4 | 11.5 | |
| 23 | 11.3 | 11.4 | 11.7 | 10.5 | 12.1 | 13.0 | 13.4 | 13.5 | 13.4 | 13.4 | 12.2 | 13.0 | |
| 24 | 11.4 | 11.2 | 11.4 | 11.0 | 11.6 | 11.4 | 13.4 | 13.8 | 13.3 | 13.6 | 12.2 | 13.0 | |
| 25 | 11.4 | 11.3 | 11.9 | | 11.1 | 11.4 | 13.6 | 13.8 | 13.3 | 13.8 | 11.3 | 12.8 | |
| 26 | 11.4 | 11.3 | 11.6 | | 11.1 | 11.5 | 13.8 | 13.8 | 13.2 | 13.6 | 11.6 | 11.0 | |
| 27 | 11.4 | 11.7 | 11.7 | 11.4 | 11.1 | 12.4 | 13.3 | 13.6 | 13.3 | 13.4 | 11.5 | 12.8 | |
| 28 | 11.4 | 11.5 | 12.4 | 11.4 | 12.8 | 12.8 | 13.8 | 13.8 | 13.1 | 13.7 | 11.5 | 11.9 | |
| 29 | 11.4 | | 12.2 | | 13.7 | 13.4 | 14.0 | 14.2 | 13.1 | 13.5 | 11.6 | 12.3 | |
| 30 | 11.4 | | 11.5 | 11.6 | 13.6 | 12.5 | 13.8 | 14.0 | 13.3 | 13.4 | 11.5 | 12.1 | |
| 31 | 11.6 | | 11.1 | | 11.4 | | 14.0 | 14.0 | | 13.2 | | 11.1 | |
| Mean | 11.3 | 11.3 | 11.8 | 10.7 | 12.0 | 12.8 | 13.4 | 14.5 | 14.0 | 13.5 | 12.5 | 11.6 | 12.5 |
| Max. | 11.9 | 11.8 | 13.4 | 11.6 | 13.7 | 14.2 | 15.2 | 16.2 | 15.2 | 14.1 | 13.5 | 13.0 | 16.2 |
| Min. | 10.8 | 10.6 | 11.0 | 9.5 | 11.0 | 11.2 | 11.3 | 13.1 | 13.1 | 13.2 | 11.3 | 11.0 | 9.5 |
| Range | 1.0 | 1.2 | 2.4 | 2.1 | 2.7 | 3.0 | 3.9 | 3.1 | 2.1 | .9 | 2.2 | 2.0 | |
| Std. Dev. | .23 | .37 | .55 | .54 | .79 | .85 | .88 | .82 | .65 | .27 | .62 | .58 | |

Daily Surface Water Temperatures (°C) for 1955

Point Arguello, California

34°35'N, 120°39'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1 | 12.0 | 12.4 | 11.5 | 11.0 | 13.4 | 13.4 | 13.0 | | | 13.9 | 14.2 | 13.6 |
| 2 | 11.5 | 10.6 | 12.3 | 11.2 | 12.2 | 11.8 | 14.0 | | | 13.9 | 14.5 | 13.7 |
| 3 | 11.0 | 10.8 | 11.8 | 11.0 | 12.4 | 14.0 | 12.5 | | | 13.5 | 14.4 | 13.6 |
| 4 | 11.7 | 10.2 | 11.8 | 10.4 | 11.5 | 12.5 | | | | 13.7 | 14.5 | 13.7 |
| 5 | 12.0 | 11.1 | 12.6 | 11.0 | 10.5 | 13.6 | | | | 13.8 | 14.6 | 13.6 |
| 6 | 11.4 | 10.6 | 12.6 | 10.0 | 11.0 | 11.3 | | | | 13.8 | 14.6 | 13.6 |
| 7 | 11.2 | 10.7 | 14.5 | 11.0 | 11.3 | 12.0 | | | | 13.7 | 14.3 | 13.5 |
| 8 | 11.2 | 10.6 | 13.0 | 11.5 | 12.4 | 13.4 | | | | 13.6 | 14.1 | 13.5 |
| 9 | 11.2 | 10.3 | 13.4 | 11.4 | 11.5 | 13.2 | | | | 13.6 | 14.7 | 13.9 |
| 10 | 12.4 | 10.2 | 13.6 | 11.5 | 12.4 | 12.2 | | | | 13.6 | 13.9 | 13.8 |
| 11 | 12.0 | 11.1 | 13.6 | 11.7 | 13.4 | 11.6 | | | | 13.7 | 14.1 | 13.7 |
| 12 | 11.6 | 11.4 | 12.2 | 11.8 | 13.5 | 11.0 | | | 14.0 | 13.7 | 14.0 | 13.5 |
| 13 | 11.7 | 12.2 | 12.2 | 11.4 | 13.6 | 11.8 | | | 13.6 | 13.8 | 13.7 | 13.4 |
| 14 | 11.5 | 11.4 | 11.4 | 11.0 | 13.5 | 12.0 | | | 13.6 | 13.9 | 14.0 | 13.0 |
| 15 | 11.8 | 11.6 | 10.5 | 10.0 | 12.5 | 11.5 | | | 13.5 | 14.0 | 14.2 | 13.0 |
| 16 | 11.8 | 12.5 | 10.6 | 10.6 | 12.2 | 11.3 | | | 13.3 | 13.9 | 14.0 | 12.9 |
| 17 | 11.0 | 12.5 | 11.8 | 10.6 | 12.4 | 11.6 | | | 13.1 | 14.0 | 13.9 | 12.8 |
| 18 | 11.6 | 12.0 | 12.0 | 11.6 | 11.4 | 11.2 | | | 13.1 | 14.4 | 14.0 | 12.8 |
| 19 | 11.6 | 11.2 | 12.2 | 11.7 | 12.4 | 11.0 | | | 13.0 | 14.5 | 13.8 | 12.0 |
| 20 | 11.5 | 12.0 | 11.1 | 10.4 | 11.2 | 11.3 | | | 13.0 | 14.4 | 13.8 | 12.0 |
| 21 | 10.9 | 11.6 | 13.4 | 11.0 | 12.2 | 11.5 | | | 12.9 | 14.3 | 13.9 | 11.7 |
| 22 | 10.1 | 11.6 | 11.1 | 11.8 | 11.5 | 12.5 | | | 12.8 | 14.3 | 13.8 | 11.8 |
| 23 | 10.9 | 11.5 | 11.0 | 11.5 | 11.5 | 12.6 | | | 13.3 | 14.1 | 13.9 | 11.5 |
| 24 | 11.5 | 11.4 | 11.4 | 12.0 | 11.8 | 11.2 | | | 13.5 | 14.0 | 14.2 | 11.5 |
| 25 | 12.1 | 11.6 | 12.0 | 11.4 | 11.4 | 13.0 | | | 13.8 | 14.0 | 14.4 | 11.4 |
| 26 | 13.0 | 12.1 | 12.3 | 12.0 | 11.0 | 12.5 | | | 14.1 | 14.1 | 14.6 | 12.1 |
| 27 | 11.7 | 11.6 | 12.4 | 11.5 | 13.0 | 11.0 | | | 13.9 | 13.9 | 14.3 | 12.2 |
| 28 | 11.8 | 12.4 | 14.4 | 12.1 | 13.2 | 12.4 | | | 13.5 | 13.9 | 13.9 | 12.4 |
| 29 | 12.2 | | 14.3 | 10.4 | 14.4 | 10.8 | | | 13.6 | 14.1 | 13.8 | 12.3 |
| 30 | 11.6 | | 12.5 | 11.3 | 11.5 | 11.5 | | | 13.7 | 14.0 | 13.8 | 12.1 |
| 31 | 13.6 | | 10.8 | | 12.4 | | | | | 14.0 | | 12.0 |
| Mean | 11.7 | 11.4 | 12.3 | 11.2 | 12.2 | 12.0 | 13.2 | | 13.4 | 13.9 | 14.1 | 12.8 |
| Max. | 13.6 | 12.5 | 14.5 | 12.1 | 14.4 | 14.0 | 14.0 | | 14.1 | 14.5 | 14.7 | 13.9 |
| Min. | 10.1 | 10.2 | 10.5 | 10.0 | 10.5 | 10.8 | 12.5 | | 12.8 | 13.5 | 13.7 | 11.4 |
| Range | 3.5 | 2.4 | 4.0 | 2.1 | 3.9 | 3.2 | 1.6 | | 1.3 | 1.0 | 1.0 | 2.5 |
| Std. Dev. | .63 | .70 | 1.07 | .57 | .92 | .87 | .65 | | .37 | .25 | .29 | .81 |

Daily Surface Water Temperatures (°C) for 1955

Gaviota, California 34°28'N, 120°14'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 13.4 | 12.5 | 11.9 | 13.1 | | 12.0 | 15.5 | 15.5 | 18.9 | | | |
| 2 | 12.5 | 12.0 | 11.8 | 12.0 | 12.4 | 12.2 | 14.3 | 15.7 | 19.1 | | | |
| 3 | 12.2 | 11.2 | 12.0 | 11.9 | 11.7 | 12.5 | 14.0 | 15.7 | 18.6 | | | |
| 4 | 12.4 | 10.8 | 12.2 | 10.6 | 11.5 | 14.3 | 13.0 | 17.3 | 19.0 | | | |
| 5 | 12.3 | 10.7 | 12.2 | 10.0 | 12.1 | 14.5 | 14.1 | 17.0 | 18.9 | | | |
| 6 | 11.8 | 10.6 | 12.7 | 10.3 | 12.8 | 14.0 | 13.0 | 18.0 | 15.0 | | | |
| 7 | 12.0 | 11.4 | 12.3 | 11.0 | 13.2 | 14.7 | 13.8 | 18.1 | 16.3 | | | |
| 8 | 12.0 | 11.6 | 12.6 | 11.8 | 13.5 | 14.1 | 16.1 | 18.7 | 16.9 | | | |
| 9 | 12.1 | 11.6 | 13.0 | 12.4 | 12.5 | 14.6 | 12.2 | 18.8 | 17.2 | | | |
| 10 | 12.6 | 11.8 | 13.8 | 11.6 | 13.9 | 14.5 | 15.2 | 18.5 | 16.5 | | | |
| 11 | 12.4 | 11.8 | 13.6 | 11.1 | 13.7 | 14.4 | 15.5 | 18.2 | 16.9 | | | |
| 12 | 12.0 | 11.8 | 13.4 | 10.8 | 13.6 | 15.0 | 17.0 | 17.0 | 16.9 | | | |
| 13 | 11.8 | 11.8 | 13.2 | 10.8 | 13.9 | 14.4 | 17.0 | 17.4 | 16.6 | | | |
| 14 | 11.6 | 12.4 | 12.9 | 10.6 | 13.1 | 14.9 | 17.4 | 17.6 | 16.1 | | | |
| 15 | 11.8 | 12.1 | 12.6 | 10.3 | 12.6 | 14.9 | 17.8 | 17.9 | 13.8 | | | |
| 16 | 12.4 | 12.6 | 13.5 | 11.3 | 10.7 | 14.7 | 13.9 | 17.6 | 14.4 | | | |
| 17 | 11.6 | 12.6 | 13.2 | 11.0 | 10.7 | 14.6 | 14.7 | 16.8 | 14.5 | | | |
| 18 | 12.0 | 12.4 | 12.9 | 11.3 | 11.4 | 14.2 | 16.3 | 14.5 | 14.8 | | | |
| 19 | 12.2 | 11.0 | 12.8 | 10.3 | 11.7 | 14.7 | 17.1 | 16.6 | 16.1 | | | |
| 20 | 12.0 | 11.0 | 12.1 | 10.1 | 13.8 | 14.8 | 16.5 | 17.6 | 14.8 | | | |
| 21 | 11.6 | 11.2 | 12.3 | 11.2 | 13.8 | 14.5 | 16.9 | 17.2 | 14.9 | | | |
| 22 | 11.2 | 11.6 | 13.1 | | 12.0 | 12.1 | 16.8 | 17.1 | 15.5 | | | |
| 23 | 11.2 | 11.7 | 12.8 | | 13.9 | 11.0 | 16.4 | 17.6 | 15.0 | | | |
| 24 | 11.8 | 11.6 | 13.8 | | 13.4 | 11.9 | 15.3 | 16.6 | 14.5 | | | |
| 25 | 12.3 | 11.6 | 14.4 | | 13.2 | 15.7 | 17.0 | 15.4 | 14.1 | | | |
| 26 | 12.2 | 11.8 | 14.6 | | 13.2 | 14.3 | 14.0 | 15.7 | 15.0 | | | |
| 27 | 12.2 | 12.5 | 14.5 | | 13.2 | 13.2 | 13.9 | 16.5 | 14.5 | | | |
| 28 | 12.0 | 11.8 | 15.3 | | 14.1 | 13.3 | 15.8 | 16.4 | 14.8 | | | |
| 29 | 11.9 | | 14.7 | | 14.0 | 14.4 | 15.3 | 17.5 | 14.0 | | | |
| 30 | 12.7 | | 13.2 | | 14.8 | 14.8 | 15.1 | 18.7 | 14.0 | | | |
| 31 | 12.8 | | 11.8 | | 13.7 | | 14.9 | 19.2 | | | | |
| Mean | 12.1 | 11.7 | 13.1 | 11.1 | 12.9 | 14.0 | 15.4 | 17.2 | 15.9 | | | |
| Max. | 13.4 | 12.6 | 15.3 | 13.1 | 14.8 | 15.7 | 17.8 | 19.2 | 19.1 | | | |
| Min. | 11.2 | 10.6 | 11.8 | 10.0 | 10.7 | 11.0 | 12.2 | 14.5 | 13.8 | | | |
| Range | 2.2 | 2.0 | 3.5 | 3.1 | 4.1 | 4.7 | 5.6 | 4.7 | 5.3 | | | |
| Std. Dev. | .45 | .56 | .91 | .78 | 1.04 | 1.13 | 1.44 | 1.11 | 1.64 | | | |

Daily Surface Water Temperatures (°C) for 1955

Santa Barbara, California 34°24'N, 119°42'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 13.5 | 13.2 | 12.6 | 15.2 | | 15.2 | 16.1 | 16.0 | 18.9 | 14.9 | 15.8 | 13.6 | |
| 2 | 12.9 | 12.8 | 13.1 | 15.2 | | | 15.8 | 16.0 | 18.1 | 15.2 | 15.8 | 13.0 | |
| 3 | 13.1 | 12.8 | 12.7 | 15.3 | | | 15.1 | 18.0 | 19.3 | 14.9 | | 12.8 | |
| 4 | 12.9 | 12.9 | 13.2 | 13.0 | | 14.7 | 15.5 | 17.1 | 18.8 | 15.0 | | 12.4 | |
| 5 | 13.2 | 12.6 | 13.0 | 13.0 | | 14.1 | 16.3 | 17.1 | 16.8 | 15.1 | 15.1 | 12.0 | |
| 6 | 12.2 | 12.4 | 13.0 | 13.2 | | 14.9 | 16.6 | 18.5 | 17.6 | 16.4 | 15.2 | 12.8 | |
| 7 | 13.6 | 12.2 | 12.5 | 13.0 | | 14.8 | 17.8 | 18.3 | 17.4 | 15.5 | 15.9 | 12.1 | |
| 8 | 13.3 | 12.3 | 12.6 | 13.4 | | 15.6 | 17.9 | 18.0 | 18.2 | 15.5 | 17.3 | 12.5 | |
| 9 | 12.0 | 12.5 | 12.8 | 13.8 | | 15.2 | 17.9 | 18.0 | 17.0 | 15.6 | 15.7 | 12.4 | |
| 10 | 12.7 | 12.8 | 12.9 | 14.5 | | 16.4 | 17.9 | 18.0 | 16.1 | 15.5 | 15.8 | 12.7 | |
| 11 | 12.7 | 12.4 | 14.5 | 12.6 | | 14.9 | 18.0 | 19.1 | 16.2 | 15.6 | 16.0 | 13.0 | |
| 12 | 14.3 | 12.5 | 12.4 | 12.6 | | 14.8 | 17.9 | 17.0 | 16.0 | 15.3 | 15.8 | 12.9 | |
| 13 | 12.9 | 12.7 | 13.0 | 12.7 | | 14.8 | 17.5 | 17.1 | 15.8 | 15.4 | 16.3 | 13.2 | |
| 14 | 12.6 | 12.6 | | 12.8 | | 14.6 | 17.7 | 18.0 | 15.7 | 15.3 | 15.0 | 13.2 | |
| 15 | 12.0 | 12.6 | | 12.9 | | 14.6 | 18.4 | 18.0 | 16.5 | 15.4 | 14.0 | 13.3 | |
| 16 | 12.2 | 12.6 | | 12.7 | | 16.4 | 17.9 | 18.1 | 17.6 | 15.4 | 13.9 | 13.3 | |
| 17 | 12.4 | 12.5 | | 12.4 | | | 18.2 | 17.4 | 17.0 | 15.6 | 13.7 | 13.0 | |
| 18 | 12.4 | 12.2 | | | | | 18.8 | 17.2 | 16.4 | 15.6 | 13.8 | 12.6 | |
| 19 | 12.1 | 12.6 | | | | | 17.9 | 17.1 | 17.0 | 15.6 | 14.0 | 12.4 | |
| 20 | 12.8 | 12.9 | | | | 17.0 | 18.3 | 17.2 | 17.1 | 15.6 | 13.9 | 13.4 | |
| 21 | 12.6 | 12.6 | 14.9 | | | 16.8 | 16.5 | 17.1 | 16.5 | 15.4 | 14.0 | 13.2 | |
| 22 | 12.4 | 12.7 | 14.5 | | | 16.9 | 16.5 | 17.1 | 15.0 | 15.4 | 14.2 | 13.6 | |
| 23 | 12.2 | 12.5 | 14.6 | | | 17.5 | 16.2 | 17.0 | 15.0 | 15.8 | 13.8 | 13.5 | |
| 24 | | 12.3 | 14.7 | | | 16.8 | 16.3 | 17.2 | 16.0 | 15.8 | 13.4 | 13.5 | |
| 25 | 12.8 | 12.4 | 14.8 | | | 16.9 | 16.6 | 16.0 | 15.4 | 15.6 | 13.4 | 13.4 | |
| 26 | 12.5 | 12.4 | 14.6 | | 15.0 | 16.4 | 16.0 | 16.2 | 15.0 | 15.4 | 13.1 | 13.4 | |
| 27 | 12.6 | 12.3 | 14.3 | | 15.2 | 16.8 | 16.1 | 17.2 | 14.1 | 15.7 | 13.1 | 13.4 | |
| 28 | 12.3 | 12.2 | 16.4 | | | 16.0 | 16.6 | 16.7 | 15.0 | 16.5 | 13.5 | 13.1 | |
| 29 | 12.2 | | 15.5 | | 15.8 | 15.7 | 16.0 | 16.7 | 14.9 | 16.1 | 13.5 | 12.9 | |
| 30 | 12.6 | | 15.0 | | | 15.3 | 15.4 | 17.7 | 14.9 | 16.2 | 13.6 | 12.1 | |
| 31 | 12.6 | | 15.1 | | | | 15.4 | 18.5 | | 15.5 | | 13.0 | |
| Mean | 12.7 | 12.6 | 13.9 | 13.4 | 15.3 | 15.7 | 16.9 | 17.4 | 16.5 | 15.5 | 14.6 | 13.0 | 14.8 |
| Max. | 14.3 | 13.2 | 16.4 | 15.3 | 15.8 | 17.5 | 18.8 | 19.1 | 19.3 | 16.5 | 17.3 | 13.6 | 19.3 |
| Min. | 12.0 | 12.2 | 12.4 | 12.4 | 15.0 | 14.1 | 15.1 | 16.0 | 14.1 | 14.9 | 13.1 | 12.0 | 12.0 |
| Range | 2.3 | 1.0 | 4.0 | 2.9 | .8 | 3.4 | 3.7 | 3.1 | 5.2 | 1.6 | 4.2 | 1.6 | |
| Std. Dev. | .50 | .24 | 1.13 | .97 | .34 | .97 | 1.05 | .77 | 1.31 | .37 | 1.15 | .45 | |

Daily Surface Water Temperatures (°C) for 1955

Port Hueneme, California

34°08'N, 119°13'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 12.6 | 13.5 | 13.6 | 15.8 | 13.8 | 14.2 | 13.8 | 15.2 | 18.0 | 14.2 | 15.5 | 12.8 | |
| 2 | 12.1 | 12.2 | 13.5 | 15.2 | 12.1 | 15.2 | 15.5 | 14.8 | 18.2 | 14.4 | 15.2 | 12.6 | |
| 3 | 12.0 | 11.6 | 13.0 | 15.7 | 11.8 | 15.2 | 14.6 | 15.8 | 18.0 | 15.0 | 15.2 | 12.2 | |
| 4 | 12.4 | 11.6 | 14.5 | 13.6 | 13.9 | 14.2 | 14.9 | 17.6 | 16.2 | 14.0 | 14.2 | 12.8 | |
| 5 | 11.8 | 11.0 | 13.5 | 13.2 | 13.7 | 14.1 | 15.2 | 17.4 | 15.9 | 14.8 | 14.8 | 12.8 | |
| 6 | 12.2 | 12.0 | 13.7 | 12.6 | 13.6 | 14.5 | 14.2 | 18.6 | 16.2 | 16.0 | 16.4 | 12.9 | |
| 7 | 12.9 | 10.7 | 12.2 | 13.7 | 15.2 | 14.8 | 14.6 | 18.0 | 17.0 | 16.2 | 15.6 | 12.8 | |
| 8 | 12.8 | 10.6 | 13.2 | 13.4 | 15.5 | 14.9 | 18.4 | 17.4 | 16.2 | 16.3 | 16.1 | 12.2 | |
| 9 | 13.3 | 10.3 | 13.2 | 13.6 | 14.1 | 15.6 | 18.6 | 16.0 | 15.9 | 14.6 | 15.6 | 12.4 | |
| 10 | 12.6 | 10.2 | 13.7 | 14.0 | 13.8 | 14.8 | 18.2 | 16.3 | 16.0 | 15.2 | 15.4 | 12.3 | |
| 11 | 12.4 | 11.1 | 14.2 | 13.0 | 13.7 | 15.0 | 17.0 | 16.4 | 15.8 | 15.4 | 16.1 | 12.7 | |
| 12 | 13.2 | 11.3 | 14.6 | 14.1 | 14.9 | 15.2 | 18.1 | 16.4 | 15.4 | 15.0 | 15.9 | 12.7 | |
| 13 | 13.2 | 12.3 | 15.0 | 12.4 | 14.0 | 14.9 | 17.1 | 16.6 | 14.4 | 16.2 | 15.2 | 12.2 | |
| 14 | 12.4 | 12.4 | 14.7 | 12.4 | 13.8 | 14.8 | 17.0 | 16.1 | 15.4 | 16.5 | 14.5 | 12.6 | |
| 15 | 12.4 | 12.6 | 14.1 | 12.1 | 13.2 | 14.6 | 17.7 | 16.8 | 13.6 | 16.5 | 13.2 | 12.4 | |
| 16 | 12.2 | 12.6 | 15.2 | 11.6 | 12.8 | 13.4 | 15.7 | 15.6 | 14.4 | 16.0 | 14.9 | 12.2 | |
| 17 | 12.4 | 13.1 | 13.1 | 14.0 | 11.5 | 13.8 | 15.8 | 15.8 | 14.2 | 15.4 | 14.1 | 12.5 | |
| 18 | 12.8 | 12.6 | 13.8 | 11.2 | 13.5 | 13.5 | 16.9 | 15.0 | 16.0 | 15.2 | 13.9 | 12.6 | |
| 19 | 12.8 | 11.9 | 14.4 | 11.0 | 12.2 | 14.1 | 15.7 | 15.2 | 15.2 | 15.4 | 13.8 | 13.4 | |
| 20 | 11.6 | 11.2 | 14.0 | 10.7 | 14.2 | 15.8 | 14.6 | 14.2 | 15.9 | 15.2 | 14.2 | 13.4 | |
| 21 | 12.0 | 11.2 | 14.4 | 11.8 | 14.6 | 15.4 | 14.9 | 13.9 | 17.3 | 15.7 | 13.5 | 13.3 | |
| 22 | 12.1 | 12.2 | 13.4 | 11.2 | 13.6 | 14.9 | 14.7 | 14.1 | 16.4 | 16.2 | 13.0 | 13.2 | |
| 23 | 12.9 | 13.1 | 13.2 | 12.0 | 13.9 | 13.8 | 15.4 | 15.0 | 16.1 | 15.8 | 13.4 | 14.0 | |
| 24 | 12.9 | 12.2 | 13.2 | 12.1 | 14.5 | 15.4 | 14.1 | 16.2 | 16.0 | 16.1 | 14.0 | 13.4 | |
| 25 | 12.8 | 12.3 | 12.8 | 13.2 | 14.0 | 13.7 | 14.9 | 16.9 | 16.5 | 16.4 | 13.3 | 13.1 | |
| 26 | 12.8 | 11.6 | 14.6 | 12.2 | 15.1 | 14.2 | 15.4 | | 16.0 | 14.1 | 13.6 | 13.2 | |
| 27 | 11.8 | 12.6 | 15.5 | 12.6 | 16.5 | 14.2 | 15.2 | 15.1 | 16.2 | 14.5 | 12.1 | 13.5 | |
| 28 | 13.0 | 12.8 | 16.1 | 13.2 | 14.5 | 14.2 | 15.4 | 14.2 | 16.5 | 14.4 | 12.9 | 12.4 | |
| 29 | 13.2 | | 15.6 | 13.0 | 16.2 | 14.0 | 14.4 | 16.0 | 14.3 | 14.2 | 13.2 | 12.9 | |
| 30 | 12.9 | | 15.5 | 12.8 | 14.1 | 14.2 | 14.4 | 15.8 | 15.4 | 14.8 | 13.1 | 12.2 | |
| 31 | 13.0 | | 15.2 | | 14.3 | | 15.5 | 16.2 | | 15.7 | | 12.9 | |
| Mean | 12.6 | 11.9 | 14.1 | 12.9 | 14.0 | 14.6 | 15.7 | 16.0 | 16.0 | 15.3 | 14.4 | 12.8 | 14.2 |
| Max. | 13.3 | 13.5 | 16.1 | 15.8 | 16.5 | 15.8 | 18.6 | 18.6 | 18.2 | 16.5 | 16.4 | 14.0 | 18.6 |
| Min. | 11.6 | 10.2 | 12.2 | 10.7 | 11.5 | 13.4 | 13.8 | 13.9 | 13.6 | 14.0 | 12.1 | 12.2 | 10.2 |
| Range | 1.7 | 3.4 | 3.9 | 5.0 | 5.0 | 2.4 | 4.8 | 4.7 | 4.6 | 2.6 | 4.4 | 1.8 | |
| Std. Dev. | .45 | .87 | .94 | 1.26 | 1.12 | .63 | 1.36 | 1.15 | 1.08 | .77 | 1.13 | .48 | |

Daily surface salinities (‰) for 1955

Port Hueneme, California 34°08'N, 119°13'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 33.51 | 33.57 | 33.53 | 33.44 | 33.58 | 33.36 | 34.36 | 31.17 | 33.36 | 33.41 | 33.41 | 33.43 | |
| 2 | 33.51 | 33.46 | 33.47 | 33.57 | 33.62 | 33.39 | 33.58 | 33.06 | 33.37 | 33.67 | 33.39 | 33.35 | |
| 3 | 33.48 | 33.51 | 33.47 | 33.53 | 33.62 | 33.49 | 32.97 | 33.42 | 33.04 | 33.23 | 34.04 | 32.60 | |
| 4 | 33.38 | 33.49 | 33.53 | 33.53 | 33.64 | 33.51 | 33.26 | 33.40 | 33.37 | 33.62 | 33.48 | 33.59 | |
| 5 | 33.37 | 33.44 | 33.49 | 33.41 | 33.68 | 33.28 | 32.61 | 33.44 | 33.33 | 33.45 | 33.55 | 33.64 | |
| 6 | 33.37 | 33.33 | 33.49 | 33.42 | 33.69 | 33.30 | 33.46 | 33.42 | 33.47 | 33.61 | 33.59 | 33.59 | |
| 7 | 33.44 | 33.36 | 33.47 | 33.48 | 33.61 | 33.36 | 33.48 | 33.60 | 33.46 | 33.53 | 33.64 | 33.58 | |
| 8 | 33.47 | 33.46 | 33.46 | 33.51 | 33.61 | 33.28 | 33.60 | 33.49 | 33.47 | 33.51 | 33.63 | 33.49 | |
| 9 | 33.47 | 33.35 | 33.42 | 33.49 | 33.62 | 33.32 | 33.51 | 33.38 | 33.44 | 32.43 | 33.53 | 33.51 | |
| 10 | 33.46 | 33.39 | 33.41 | 33.57 | 33.58 | 33.50 | 33.51 | 33.26 | 33.43 | 33.22 | 33.60 | 33.40 | |
| 11 | 33.48 | 33.42 | 33.40 | 33.64 | 33.62 | 33.44 | 33.49 | 33.30 | 33.44 | 33.45 | 33.60 | 33.67 | |
| 12 | 33.41 | 33.39 | 33.39 | 33.62 | 33.62 | 33.48 | 33.58 | 33.40 | 33.39 | 33.48 | 33.39 | 33.55 | |
| 13 | 33.37 | 33.35 | 33.37 | 33.51 | 33.64 | 33.48 | 33.09 | 33.06 | 33.43 | 33.24 | 33.41 | 33.33 | |
| 14 | 33.31 | 33.41 | 33.41 | 33.55 | 33.62 | 33.48 | 33.10 | 33.50 | 33.39 | 33.03 | 33.01 | 33.28 | |
| 15 | 33.40 | 33.49 | 33.47 | 33.50 | 33.67 | 33.51 | 33.46 | 33.41 | 33.38 | 33.04 | 33.01 | 33.48 | |
| 16 | 33.35 | 33.50 | 33.50 | 33.48 | 33.66 | 33.43 | 33.15 | 33.10 | 33.06 | 33.48 | 33.42 | 33.44 | |
| 17 | 33.30 | 33.51 | 33.57 | 33.57 | 33.62 | 33.32 | 33.27 | 33.48 | 33.07 | 33.67 | 33.53 | 33.68 | |
| 18 | 33.31 | 33.49 | 33.64 | 33.61 | 33.61 | 33.24 | 33.57 | 33.33 | 33.30 | 33.48 | 34.11 | 33.44 | |
| 19 | 33.30 | 33.49 | 33.50 | 33.60 | 33.68 | 32.94 | 33.89 | 33.29 | 33.35 | 33.33 | 33.48 | 33.52 | |
| 20 | 33.39 | 33.40 | 33.53 | 33.60 | 33.57 | 33.48 | 33.48 | 33.07 | 33.50 | 33.46 | 33.55 | 33.52 | |
| 21 | 33.44 | 33.57 | 33.50 | 33.60 | 33.60 | 33.46 | 33.63 | 33.31 | 33.50 | 33.37 | 33.35 | 31.01 | |
| 22 | 33.46 | 33.49 | 33.44 | 33.55 | 33.60 | 33.46 | 33.48 | 33.42 | 33.28 | 33.29 | 33.48 | 32.23 | |
| 23 | 33.42 | 33.49 | 33.54 | 33.57 | 33.57 | 33.19 | 33.28 | 33.47 | 33.31 | 33.48 | 33.57 | 33.35 | |
| 24 | 33.34 | 33.53 | 33.50 | 33.53 | 33.66 | 33.21 | 33.45 | 33.03 | 33.43 | 33.57 | 33.45 | 32.33 | |
| 25 | 33.44 | 33.51 | 33.42 | 33.66 | 33.69 | 33.35 | 33.59 | 33.49 | 33.40 | 33.40 | 33.64 | 32.23 | |
| 26 | 33.50 | 33.57 | 33.48 | 33.58 | 33.67 | 33.19 | 33.50 | 32.52 | 33.46 | 33.33 | 33.48 | 32.17 | |
| 27 | 33.48 | 33.61 | 33.47 | 33.57 | 33.57 | 33.40 | 33.35 | 33.19 | 33.45 | 33.28 | 33.33 | 31.02 | |
| 28 | 33.49 | 33.55 | 33.50 | 33.64 | 33.44 | 33.19 | 33.47 | 33.08 | 33.48 | 33.52 | 33.25 | 32.29 | |
| 29 | 33.44 | | 33.48 | 33.68 | 33.46 | 33.24 | 33.37 | 33.40 | 33.48 | 33.42 | 33.30 | 32.65 | |
| 30 | 33.46 | | 33.50 | 33.66 | 33.33 | 33.60 | 33.17 | 32.99 | 33.36 | 33.27 | 33.64 | 33.33 | |
| 31 | 33.54 | | 33.53 | | 33.38 | | 33.46 | 33.39 | | 33.37 | | 33.36 | |
| Mean | 33.42 | 33.47 | 33.48 | 33.56 | 33.60 | 33.36 | 33.42 | 33.22 | 33.37 | 33.38 | 33.50 | 33.07 | 33.40 |
| Max. | 33.54 | 33.61 | 33.64 | 33.68 | 33.69 | 33.60 | 34.36 | 33.60 | 33.50 | 33.67 | 34.11 | 33.68 | 34.36 |
| Min. | 33.30 | 33.33 | 33.37 | 33.41 | 33.33 | 32.94 | 32.61 | 31.17 | 33.04 | 32.43 | 33.01 | 31.01 | 31.01 |
| Range | .24 | .28 | .27 | .27 | .36 | .66 | 1.75 | 2.43 | .46 | 1.24 | 1.10 | 2.67 | |
| Std. Dev. | .07 | .07 | .06 | .07 | .08 | .14 | .29 | .43 | .12 | .23 | .22 | .72 | |

Daily Surface Water Temperatures (°C) for 1955

Santa Cruz Island, California

34°01'N, 119°41'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | | | | 14.5 | | 14.4 | 14.1 | | | | | | |
| 2 | | 12.0 | 12.6 | | 11.9 | | | | 19.0 | | 15.0 | | |
| 3 | 13.1 | 11.9 | | | 12.5 | 14.5 | | 17.2 | | 16.0 | | | |
| 4 | | 11.8 | 12.8 | 12.4 | | | | | | | 15.0 | | |
| 5 | 12.2 | | | | | | 15.0 | | | 16.0 | | | |
| 6 | | | | 12.8 | 12.6 | 15.1 | 15.9 | | 19.6 | | | | |
| 7 | 12.2 | 12.2 | 12.4 | | | | | | 19.6 | 16.0 | 15.4 | | |
| 8 | | | | 12.8 | | 15.4 | 16.0 | 18.1 | | | | | |
| 9 | | 12.3 | 13.2 | | 13.1 | | | | 19.0 | | 15.8 | | |
| 10 | 12.2 | | | | | 15.0 | | 18.9 | | 15.0 | 16.0 | | |
| 11 | | 12.0 | 12.4 | 12.1 | 13.7 | | 16.6 | | | | | | |
| 12 | 12.1 | | | 12.1 | | | | 19.1 | 17.0 | 15.0 | | | |
| 13 | | | | 12.5 | 14.0 | | 16.7 | | | | | | |
| 14 | 12.0 | 12.2 | 12.2 | | | | | | 17.0 | 15.0 | 14.0 | | |
| 15 | | | | 12.6 | | | 17.0 | 18.9 | | | 14.0 | | |
| 16 | | 12.6 | 13.9 | | 13.5 | | | | 17.0 | | | 16.9 | |
| 17 | 12.9 | | | | | | | 19.0 | | | | | |
| 18 | | 12.6 | 13.4 | 11.9 | 14.2 | | | | | | 13.0 | | |
| 19 | 12.3 | | | 11.4 | | | | 19.0 | | | | | |
| 20 | | | | 11.8 | 13.1 | | | | | | | 13.1 | |
| 21 | 12.6 | | 12.6 | | | 16.0 | | | | | 14.0 | | |
| 22 | | | 12.6 | 11.3 | | | | 17.3 | | | | 13.2 | |
| 23 | | 12.0 | 12.9 | | 13.6 | | | | | | 13.0 | | |
| 24 | 12.6 | | | | | 14.7 | | 17.1 | | | | | |
| 25 | | 12.2 | 13.3 | 11.9 | 14.0 | | | | | | | | |
| 26 | | | | | 13.2 | | | 17.0 | 16.0 | | 14.0 | 12.1 | |
| 27 | 12.4 | | | 11.6 | 13.8 | 13.2 | | | | | | | |
| 28 | 12.2 | 12.2 | 13.4 | | | | | | 16.0 | | | 11.0 | |
| 29 | | | | 12.0 | | 14.0 | | 17.4 | | | | | |
| 30 | | | 13.8 | | | | | | 16.0 | | | 11.9 | |
| 31 | 12.1 | | | | 14.1 | | | 17.6 | | 15.0 | | | |
| Mean | 12.4 | 12.2 | 13.0 | 12.2 | 13.4 | 14.7 | 15.9 | 18.0 | 17.6 | 15.4 | 14.5 | 13.0 | 14.4 |
| Max. | 13.1 | 12.6 | 13.9 | 14.5 | 14.2 | 16.0 | 17.0 | 19.1 | 19.6 | 16.0 | 16.0 | 16.9 | 19.6 |
| Min. | 12.0 | 11.8 | 12.2 | 11.3 | 11.9 | 13.2 | 14.1 | 17.0 | 16.0 | 15.0 | 13.0 | 11.0 | 11.0 |
| Range | 1.1 | .7 | 1.7 | 3.2 | 2.3 | 2.8 | 2.9 | 2.1 | 3.6 | 1.0 | 3.0 | 5.9 | |
| Std. Dev. | .33 | .24 | .53 | .75 | .66 | .77 | .95 | .83 | 1.43 | .50 | .98 | 1.88 | |

Daily Surface Water Temperatures (°C) for 1955

Anacapa Island, California

34°01'N, 119°22'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | | 13.7 | 12.2 | 15.1 | 16.3 | 15.4 | 18.0 | 16.7 | 13.4 | 13.6 |
| 2 | 15.3 | | | 13.4 | 12.4 | 14.3 | 16.1 | 16.4 | 18.1 | 16.3 | 14.3 | 12.8 |
| 3 | 13.5 | | | 13.4 | 12.5 | 14.7 | 15.4 | 16.7 | 18.6 | 16.1 | 14.6 | 12.5 |
| 4 | 13.4 | | | 13.2 | 12.3 | 14.3 | 16.6 | 16.8 | 18.3 | 15.6 | 14.2 | 12.6 |
| 5 | 13.4 | | | 13.0 | 12.4 | 14.6 | 16.8 | 15.8 | 18.4 | 15.4 | 14.4 | 12.5 |
| 6 | 13.0 | | | 13.2 | 12.2 | 16.0 | 17.0 | 16.4 | 18.7 | 15.8 | 14.7 | 12.4 |
| 7 | 11.5 | | 12.4 | 13.2 | 13.5 | 15.1 | 16.6 | 17.7 | 18.7 | 15.7 | 14.4 | 12.5 |
| 8 | 12.7 | | 12.6 | 13.1 | 13.2 | 15.2 | 16.4 | 18.4 | 18.4 | 15.6 | 14.9 | 12.5 |
| 9 | 13.4 | | 12.2 | 13.0 | 12.9 | 15.3 | 16.4 | 18.5 | 18.3 | 15.3 | 14.7 | 12.9 |
| 10 | 12.8 | | 12.2 | 12.9 | 13.3 | 15.7 | 16.3 | 18.3 | 17.3 | 16.5 | 14.3 | 12.9 |
| 11 | 12.2 | | 12.9 | 12.9 | 13.8 | 15.9 | 16.4 | 18.2 | 17.3 | 15.2 | 14.6 | 13.0 |
| 12 | 12.7 | | 12.8 | 13.0 | 13.8 | 15.8 | 16.5 | 17.5 | 17.5 | 16.2 | 14.3 | 12.8 |
| 13 | 12.5 | | 12.9 | 12.9 | 13.4 | 16.0 | 16.2 | 18.4 | 17.8 | 16.1 | 13.6 | 12.8 |
| 14 | 12.7 | | 13.6 | 13.0 | 12.7 | 16.1 | 16.6 | 19.4 | 17.8 | 16.2 | 14.0 | 12.7 |
| 15 | 12.7 | | 13.3 | 12.6 | 13.3 | 16.0 | 17.1 | 18.9 | 17.2 | 16.5 | 14.3 | 12.9 |
| 16 | 12.2 | | 13.3 | 12.9 | 13.2 | 15.6 | 16.7 | 18.5 | 17.3 | 15.8 | 14.2 | 12.8 |
| 17 | 12.4 | | 10.4 | 12.9 | 13.2 | 16.2 | 16.8 | 18.8 | 17.4 | 15.6 | 14.0 | 12.9 |
| 18 | 12.6 | | 13.3 | 12.5 | 13.3 | 15.9 | 16.1 | 20.2 | 17.1 | 15.9 | 14.3 | 12.7 |
| 19 | 14.2 | | 13.2 | 12.4 | 14.1 | 15.6 | 16.0 | 19.4 | 16.5 | 15.5 | 14.2 | 12.9 |
| 20 | 12.6 | | 13.7 | 12.5 | 13.6 | 15.2 | 15.7 | 18.8 | 16.6 | 15.9 | 14.3 | 13.2 |
| 21 | 13.2 | | 13.8 | 12.6 | 14.5 | 15.3 | 16.6 | 18.9 | 16.4 | 15.6 | 13.6 | 13.3 |
| 22 | 14.9 | | 13.7 | 12.4 | 14.2 | 16.0 | 17.6 | 17.8 | 16.5 | 15.9 | 14.3 | 13.1 |
| 23 | 12.8 | | 13.9 | 11.8 | 14.3 | 15.5 | 16.4 | 17.8 | 16.5 | 15.9 | 14.0 | 13.2 |
| 24 | 12.5 | | 14.0 | 12.1 | 14.1 | 15.2 | 15.9 | 18.1 | 17.2 | 15.7 | 13.8 | 12.9 |
| 25 | | | 13.9 | 11.9 | 13.2 | 14.6 | 16.0 | 18.3 | 16.9 | 15.7 | 13.6 | 13.0 |
| 26 | | | 13.9 | 12.2 | 13.3 | 14.7 | 16.3 | 18.4 | 17.1 | 15.5 | 14.0 | 12.9 |
| 27 | | | 13.7 | 11.9 | 13.8 | 14.4 | 14.9 | 18.0 | 17.3 | 15.7 | 14.2 | 13.1 |
| 28 | | | 13.4 | 12.1 | 13.6 | 14.4 | 15.3 | 18.0 | 16.0 | 15.1 | 13.8 | 12.9 |
| 29 | | | 13.5 | 12.0 | 13.9 | 15.4 | 15.6 | 17.4 | 16.5 | 14.6 | 13.7 | 13.5 |
| 30 | | | 13.3 | 12.0 | 15.8 | 16.3 | 15.2 | 17.7 | 16.4 | 13.0 | 13.8 | 12.9 |
| 31 | | | 15.6 | | 15.1 | | 15.6 | 18.2 | | 15.3 | | 13.0 |
| Mean | 13.0 | | 13.3 | 12.7 | 13.4 | 15.4 | 16.2 | 18.0 | 17.0 | 15.7 | 14.2 | 12.9 |
| Max. | 15.3 | | 15.6 | 13.7 | 15.8 | 16.3 | 17.6 | 20.2 | 18.7 | 16.7 | 14.9 | 13.6 |
| Min. | 11.5 | | 10.4 | 11.8 | 12.2 | 14.3 | 14.9 | 15.4 | 16.0 | 13.0 | 13.4 | 12.4 |
| Range | 3.8 | | 5.2 | 1.9 | 3.6 | 2.0 | 2.7 | 4.8 | 2.7 | 3.7 | 1.5 | 1.2 |
| Std. Dev. | .84 | | .90 | .51 | .82 | .61 | .58 | 1.00 | .77 | .65 | .37 | .28 |

Daily Surface Water Temperatures (°C) for 1955

Santa Monica, California 34°01'N, 118°30'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 13.5 | 13.3 | 12.6 | 14.6 | 12.8 | 15.0 | 17.5 | 17.9 | 18.8 | 16.7 | 15.5 | 14.0 | |
| 2 | 13.3 | 12.6 | 12.6 | 13.8 | 12.9 | 16.4 | 17.5 | 18.1 | 17.5 | 16.8 | 15.9 | 12.6 | |
| 3 | 13.4 | 11.8 | 13.5 | 12.7 | 13.0 | 16.3 | 17.4 | 18.2 | 20.1 | 16.9 | 15.4 | 13.0 | |
| 4 | 13.4 | 11.5 | 13.5 | 12.0 | 13.4 | 17.5 | 16.6 | 18.6 | 20.0 | 16.7 | 15.5 | 12.9 | |
| 5 | 13.4 | 11.6 | 13.6 | 11.7 | 14.4 | 17.6 | 16.5 | 19.2 | 19.3 | 16.4 | 15.7 | 12.4 | |
| 6 | 13.3 | 11.7 | 13.5 | 13.1 | 15.2 | 17.6 | 16.9 | 19.0 | 19.1 | 16.1 | 15.7 | 12.7 | |
| 7 | 12.8 | 11.5 | 12.8 | 13.4 | 14.6 | 17.8 | 17.1 | 19.0 | 18.4 | 15.9 | 15.7 | 12.9 | |
| 8 | 12.6 | 11.8 | 12.9 | 14.4 | 14.2 | 17.5 | 18.0 | 19.0 | 18.0 | 15.6 | 15.5 | 12.8 | |
| 9 | 12.5 | 12.0 | 13.8 | 14.6 | 14.5 | 17.2 | 18.9 | 19.2 | 18.4 | 16.5 | 15.4 | 12.9 | |
| 10 | 13.2 | 12.6 | 14.6 | 14.4 | 15.2 | 16.2 | 18.2 | 18.9 | 18.2 | 16.4 | 15.4 | 13.1 | |
| 11 | 13.6 | 12.0 | 14.4 | 12.6 | 15.4 | 17.1 | 18.5 | 18.7 | 19.2 | 15.9 | 16.2 | 13.0 | |
| 12 | 13.2 | 12.3 | 14.7 | 11.4 | 15.2 | 16.2 | 18.9 | 18.9 | 18.0 | 15.4 | 16.0 | 13.1 | |
| 13 | 13.2 | 12.2 | 14.4 | 13.5 | 14.4 | 16.7 | 18.9 | 18.6 | 18.1 | 15.2 | 16.3 | 12.9 | |
| 14 | 13.2 | 12.8 | 14.0 | 12.6 | 14.6 | 16.8 | 18.8 | 18.9 | 18.5 | 15.5 | 16.1 | 13.5 | |
| 15 | 13.0 | 12.7 | 14.9 | 13.7 | 14.1 | 15.9 | 18.8 | 18.4 | 18.9 | 15.5 | 15.5 | 13.3 | |
| 16 | 13.4 | 13.5 | 14.7 | 13.6 | 13.3 | 16.5 | 18.6 | 19.1 | 18.8 | 14.9 | 14.6 | 13.1 | |
| 17 | 12.9 | 13.4 | 14.8 | 13.8 | 14.7 | 16.5 | 18.6 | 19.3 | 19.4 | 15.0 | 14.5 | 13.0 | |
| 18 | 12.5 | 12.0 | 14.8 | 13.9 | 15.6 | 17.2 | 18.2 | 20.6 | 18.3 | 15.1 | 14.5 | 12.9 | |
| 19 | 12.9 | 12.0 | 14.8 | 11.4 | 16.4 | 17.2 | 19.0 | 20.5 | 18.2 | 15.5 | 14.6 | 12.9 | |
| 20 | 12.9 | 11.9 | 14.7 | 11.6 | 16.7 | | 18.9 | 19.4 | 17.8 | 14.4 | 14.4 | 12.9 | |
| 21 | 12.8 | 12.1 | 13.1 | 12.5 | 16.2 | | 18.6 | 18.6 | 17.5 | 15.5 | 14.6 | 13.0 | |
| 22 | 12.6 | 12.4 | 14.2 | 12.4 | 16.1 | | 18.1 | 18.2 | 17.6 | 15.5 | 14.4 | 13.2 | |
| 23 | 12.9 | 12.6 | 14.9 | 12.5 | 15.3 | | 17.9 | 17.6 | 17.8 | 15.1 | 14.4 | 13.3 | |
| 24 | 12.9 | 12.4 | 15.0 | 12.3 | 15.1 | | 17.6 | 16.9 | 17.1 | 15.5 | 14.4 | 13.5 | |
| 25 | 12.9 | 12.6 | 14.8 | 12.4 | 15.2 | | 16.1 | 16.3 | 17.0 | 15.8 | 14.3 | 13.5 | |
| 26 | 12.8 | 12.8 | 16.2 | 11.0 | 15.6 | | 16.9 | 16.4 | 16.8 | 15.6 | 13.9 | 13.6 | |
| 27 | 12.8 | 12.1 | 15.2 | 10.9 | 15.6 | 17.1 | 16.9 | 16.2 | 16.7 | 15.1 | 14.0 | 13.6 | |
| 28 | 12.6 | 12.4 | 14.0 | 11.9 | 16.7 | 17.0 | 16.1 | 17.1 | 16.8 | 15.4 | 14.0 | 13.3 | |
| 29 | 12.7 | | 14.7 | 12.0 | 15.9 | 17.2 | 17.2 | 17.0 | 16.8 | 15.5 | 14.2 | 13.2 | |
| 30 | 12.6 | | 14.8 | 12.1 | 15.9 | 17.9 | 17.9 | 18.7 | 16.9 | 16.1 | 14.0 | 12.9 | |
| 31 | 12.6 | | 14.6 | | 16.0 | | 17.8 | 18.6 | | 15.6 | | 12.5 | |
| Mean | 13.0 | 12.3 | 14.2 | 12.8 | 15.0 | 16.9 | 17.8 | 18.4 | 18.1 | 15.7 | 15.0 | 13.1 | 15.2 |
| Max. | 13.6 | 13.5 | 16.2 | 14.6 | 16.7 | 17.9 | 19.0 | 20.6 | 20.1 | 16.9 | 16.3 | 14.0 | 20.6 |
| Min. | 12.5 | 11.5 | 12.6 | 10.9 | 12.8 | 15.0 | 16.1 | 16.2 | 16.7 | 14.4 | 13.9 | 12.4 | 10.9 |
| Range | 1.1 | 2.0 | 3.6 | 3.7 | 3.9 | 2.8 | 2.8 | 4.4 | 3.4 | 2.5 | 2.4 | 1.6 | |
| Std. Dev. | .32 | .53 | .84 | 1.06 | 1.09 | .67 | .87 | 1.06 | .95 | .60 | .75 | .34 | |

Daily Surface Water Temperatures (°C) for 1955

Santa Rosa Island, California

33°55'N, 120°06'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | 12.6 | 13.0 | | 13.0 | 13.0 | 14.0 | 15.6 | 15.2 | 14.4 | 13.3 |
| 2 | | | 12.0 | 10.1 | | 13.1 | 13.3 | 13.8 | 15.8 | 15.6 | 14.2 | 13.2 |
| 3 | | | 11.9 | 10.9 | | 13.1 | 13.9 | 13.9 | 16.1 | 14.8 | 13.4 | 13.3 |
| 4 | | | 12.2 | | | 13.2 | 13.9 | 13.9 | 16.3 | 15.1 | 13.5 | 13.2 |
| 5 | | | 11.9 | | | 13.4 | 13.6 | 14.0 | 16.7 | 15.3 | 13.6 | 13.1 |
| 6 | | | 11.8 | | | 14.2 | 13.7 | 14.1 | 16.6 | 14.9 | 13.7 | 13.2 |
| 7 | | | 12.5 | | | 14.3 | 13.6 | 14.0 | 16.5 | 15.0 | 13.6 | 13.3 |
| 8 | | | 12.6 | | | 14.4 | 13.7 | 14.1 | 16.5 | 15.2 | 13.5 | 13.1 |
| 9 | | | 12.9 | | | 14.5 | 13.8 | 14.0 | 16.4 | 15.1 | 13.6 | 13.2 |
| 10 | | | 12.8 | | | 14.0 | 13.9 | 14.0 | 16.1 | 14.8 | 13.4 | 13.3 |
| 11 | | | 13.1 | | | 14.6 | 13.9 | 14.0 | 16.2 | 15.0 | 13.7 | 13.1 |
| 12 | | | 12.9 | | | 14.2 | 13.8 | 14.1 | 15.6 | 14.9 | 13.5 | 13.1 |
| 13 | | | 11.4 | | | 12.3 | 13.6 | 14.0 | 15.5 | 15.1 | 13.5 | 13.1 |
| 14 | | | 11.6 | | | 13.3 | 13.9 | 14.1 | 15.4 | 15.2 | 13.4 | 13.2 |
| 15 | | | 11.9 | | | 14.0 | 13.8 | 14.1 | 15.3 | 15.1 | 13.3 | 13.3 |
| 16 | | | 11.9 | | | 13.9 | 13.7 | 14.2 | 15.4 | 15.0 | 13.2 | 13.2 |
| 17 | | | 11.8 | | | 14.0 | 13.9 | 14.1 | 15.2 | 14.8 | 13.3 | 13.1 |
| 18 | | | 12.2 | | | 13.0 | 14.0 | 14.2 | 15.4 | 15.0 | 13.4 | 13.1 |
| 19 | | | 12.9 | | | 13.3 | 13.9 | 14.1 | 15.4 | 14.9 | 13.2 | 13.1 |
| 20 | | | 12.3 | | | | 13.8 | 14.0 | 15.0 | 14.8 | 13.3 | 13.2 |
| 21 | | 12.0 | 12.2 | | | | 13.9 | 14.1 | 15.7 | 15.0 | 13.4 | 13.1 |
| 22 | | 12.9 | 13.2 | | | | 14.0 | | 15.0 | 15.1 | 13.3 | 13.2 |
| 23 | | 11.3 | 12.3 | | | | 14.1 | | 15.0 | 15.0 | 13.2 | 13.1 |
| 24 | | 11.9 | 12.2 | | | | 13.9 | | 15.0 | 14.9 | 13.4 | 13.2 |
| 25 | | 11.7 | 13.2 | | | | | | 15.9 | 14.8 | 13.3 | 13.1 |
| 26 | | 11.8 | 13.1 | | | | | | 15.2 | 15.0 | 13.2 | 13.1 |
| 27 | | 11.7 | 12.9 | | | 13.4 | | | 15.5 | 15.0 | 13.3 | 13.2 |
| 28 | | 11.9 | 13.4 | | | 13.3 | | | 15.1 | 15.0 | 13.3 | 13.3 |
| 29 | | | 12.3 | | | 13.6 | | 15.6 | 15.3 | 15.0 | 13.2 | 13.1 |
| 30 | | | 11.0 | | 12.7 | 13.9 | | 15.7 | 15.4 | 15.0 | 13.3 | 13.3 |
| 31 | | | 12.0 | | 12.6 | | | 15.7 | | 14.6 | | 13.2 |
| Mean | | 11.9 | 12.4 | 11.3 | 12.6 | 13.6 | 13.8 | 14.2 | 15.7 | 15.0 | 13.4 | 13.2 |
| Max. | | 12.9 | 13.4 | 13.0 | 12.7 | 14.6 | 14.1 | 15.7 | 16.7 | 15.6 | 14.4 | 13.3 |
| Min. | | 11.3 | 11.0 | 10.1 | 12.6 | 12.3 | 13.0 | 13.8 | 15.0 | 14.6 | 13.2 | 13.1 |
| Range | | 1.6 | 2.4 | 2.9 | .1 | 2.3 | 1.1 | 1.9 | 1.7 | 1.0 | 1.2 | .2 |
| Std. Dev. | | .43 | .58 | 1.22 | .05 | .58 | .23 | .55 | .52 | .18 | .27 | .08 |

Daily Surface Water Temperature (°C) for 1955

Marineland of the Pacific, California 33°45'N, 118°23'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | | | 13.6 | 16.1 | 17.2 | 16.8 | 16.5 | 14.7 | 16.1 | 15.6 |
| 2 | | | | | 14.2 | 16.1 | 17.5 | 16.2 | 17.2 | 13.9 | 16.1 | 15.4 |
| 3 | | | | | 14.2 | 16.1 | 17.7 | 16.7 | 16.7 | 14.4 | 16.1 | 13.9 |
| 4 | | | | | 14.2 | 16.2 | 16.9 | 17.5 | 16.5 | 13.9 | 16.1 | 13.5 |
| 5 | | | | | 14.4 | 16.1 | 16.9 | 17.2 | 16.2 | 14.4 | 16.1 | 14.4 |
| 6 | | | | | 14.4 | 16.2 | 16.9 | 17.2 | 16.1 | 14.4 | 16.4 | 14.4 |
| 7 | | | | | 14.4 | 16.2 | 17.2 | 16.7 | 16.1 | 14.4 | 16.6 | 15.0 |
| 8 | | | | | 15.2 | 16.1 | 17.5 | 16.8 | 16.7 | 15.0 | 16.7 | 15.0 |
| 9 | | | | | 15.4 | 16.1 | 17.5 | 17.2 | 17.5 | 15.0 | 16.7 | 15.4 |
| 10 | | | | | 15.4 | 16.1 | 17.5 | 17.8 | 18.3 | 15.6 | 16.7 | 15.0 |
| 11 | | | | | 15.4 | 16.1 | 17.5 | 18.2 | 18.1 | 15.6 | 16.7 | 15.0 |
| 12 | | | | | 15.0 | 16.4 | 17.2 | 18.2 | 17.8 | 15.6 | 16.7 | 14.4 |
| 13 | | | | | 15.0 | 16.1 | 17.2 | 18.2 | 17.8 | 16.1 | 16.9 | 14.0 |
| 14 | | | 15.0 | | 15.0 | 16.1 | 16.7 | 18.2 | 16.9 | 16.1 | 16.7 | 14.3 |
| 15 | | | 15.0 | | 15.0 | 16.1 | 16.1 | 18.2 | 16.7 | 16.4 | 16.2 | 14.0 |
| 16 | | | 15.0 | | 14.8 | 16.1 | 15.6 | 17.7 | 16.7 | 16.1 | 16.1 | 14.3 |
| 17 | | | 15.0 | | 14.8 | 16.1 | 15.6 | 16.4 | 17.2 | 16.1 | 16.1 | 14.3 |
| 18 | | | 15.0 | 14.2 | 15.0 | 16.1 | 16.2 | 16.1 | 17.5 | 16.1 | 16.1 | 14.4 |
| 19 | | | 15.0 | 13.6 | 15.0 | 16.6 | 16.8 | 16.1 | | 15.8 | 15.7 | 14.4 |
| 20 | | | 15.0 | 13.6 | 15.0 | 16.7 | 17.2 | 16.1 | 17.8 | 15.8 | 15.7 | 14.7 |
| 21 | | | 14.4 | 13.6 | 15.0 | 16.9 | 16.9 | 16.1 | 17.5 | 15.6 | 15.9 | 14.7 |
| 22 | | | 14.4 | 13.0 | 15.0 | 16.1 | 16.4 | 16.4 | 17.5 | 15.8 | 16.1 | 14.4 |
| 23 | | | 15.0 | 13.6 | 15.6 | 16.4 | 16.2 | 16.4 | 17.5 | 15.8 | 15.4 | 14.4 |
| 24 | | | 15.0 | 13.7 | 15.6 | 16.1 | 16.1 | 16.7 | 16.9 | 15.6 | 15.6 | 14.4 |
| 25 | | | 15.0 | 13.9 | 15.4 | 16.1 | 16.2 | 16.7 | 16.7 | 15.6 | 15.6 | 14.4 |
| 26 | | | 15.0 | 13.9 | 15.6 | 16.7 | 17.3 | 16.1 | 16.7 | 15.6 | 15.6 | 14.4 |
| 27 | | | 15.0 | 14.2 | 15.6 | 16.9 | 17.8 | 15.6 | | 15.6 | 15.8 | 14.4 |
| 28 | | | | 13.9 | 15.6 | 16.9 | 18.1 | 15.6 | 16.4 | 15.8 | 15.6 | 14.4 |
| 29 | | | | 13.5 | 15.8 | 16.9 | 17.8 | 15.6 | 15.6 | 16.1 | 15.6 | 15.0 |
| 30 | | | | 13.9 | 15.6 | 16.9 | 17.8 | 15.6 | 15.6 | 16.1 | 15.4 | 15.0 |
| 31 | | | | | 15.6 | | 17.5 | 15.9 | | 16.1 | | 14.4 |
| Mean | | | 14.9 | 13.7 | 15.0 | 16.3 | 17.0 | 16.8 | 17.0 | 15.4 | 16.1 | 14.6 |
| Max. | | | 15.0 | 14.2 | 15.8 | 16.9 | 18.1 | 18.2 | 18.3 | 16.4 | 16.9 | 15.6 |
| Min. | | | 14.4 | 13.0 | 13.6 | 16.1 | 15.6 | 15.6 | 15.6 | 13.9 | 15.4 | 13.5 |
| Range | | | .6 | 1.2 | 2.2 | .8 | 2.5 | 2.6 | 2.7 | 2.5 | 1.5 | 2.1 |
| Std. Dev. | | | .21 | .30 | .53 | .31 | .66 | .85 | .70 | .70 | .44 | .46 |

Daily Surface Water Temperatures (°C) for 1955

Huntington Beach, California

33°39'N, 118°00'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> | |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------|
| 1 | 12.8 | | 13.6 | 15.7 | 14.1 | 16.6 | 18.0 | 15.8 | 17.6 | 14.2 | 16.1 | 13.8 | |
| 2 | 13.1 | | 13.6 | 15.4 | 14.4 | 17.1 | 17.6 | 16.0 | 17.6 | 14.0 | 16.2 | 13.0 | |
| 3 | 13.2 | | 14.1 | 13.7 | 14.1 | 17.1 | 17.4 | 16.9 | 17.5 | 14.1 | 16.2 | 12.6 | |
| 4 | 13.1 | | 14.1 | 13.6 | 14.6 | 17.4 | 16.0 | 17.2 | 17.6 | 14.3 | 16.3 | 12.8 | |
| 5 | 12.8 | | 13.8 | 13.6 | 15.2 | 17.6 | 15.9 | 17.2 | 17.8 | 14.5 | 16.3 | 13.4 | |
| 6 | 12.6 | | 13.4 | 13.7 | 15.6 | 18.1 | 15.5 | 17.1 | 18.1 | 14.6 | 16.3 | 13.5 | |
| 7 | 13.4 | | 13.2 | 13.8 | 15.4 | 16.3 | | 17.0 | 18.1 | 14.8 | 16.3 | 13.6 | |
| 8 | 13.1 | | 13.3 | 14.0 | 15.2 | 16.2 | 18.3 | 19.2 | 18.4 | 16.0 | 16.4 | 13.6 | |
| 9 | 13.1 | 12.5 | 14.2 | 14.0 | 15.0 | 16.5 | 19.0 | 20.4 | 19.6 | 16.2 | 15.8 | 13.7 | |
| 10 | 13.6 | 12.7 | 14.2 | 14.2 | 15.2 | 16.6 | 18.9 | 21.2 | 21.4 | 16.3 | 16.0 | 13.7 | |
| 11 | 13.4 | 12.8 | 14.2 | 14.5 | 15.3 | 16.8 | 18.9 | 19.0 | 19.8 | 16.4 | 16.0 | 13.6 | |
| 12 | 13.0 | 13.0 | 14.8 | 14.2 | 15.6 | 17.0 | 18.9 | 17.5 | 15.7 | 16.4 | 15.9 | 13.4 | |
| 13 | 13.0 | 13.0 | 15.6 | 14.2 | 16.0 | 17.0 | 18.8 | 17.9 | 14.5 | 16.5 | 15.9 | 13.5 | |
| 14 | 12.9 | 13.4 | 15.5 | 13.6 | 16.2 | 16.5 | 18.6 | 18.0 | 14.2 | 16.5 | 15.6 | 13.7 | |
| 15 | 12.8 | 13.4 | 15.4 | 13.2 | 16.0 | 16.5 | 18.4 | 18.8 | 16.1 | 16.6 | 15.5 | 13.6 | |
| 16 | 12.6 | 13.2 | 15.2 | 13.4 | 16.0 | 16.3 | 17.9 | 19.0 | 17.1 | 16.4 | 15.5 | 13.3 | |
| 17 | | 13.3 | 15.1 | 13.6 | 16.4 | 16.0 | 17.6 | 18.4 | 19.1 | 16.0 | 15.3 | 13.2 | |
| 18 | | 13.6 | 15.1 | 14.2 | 16.6 | 17.2 | 17.4 | 17.0 | 20.0 | 16.2 | 15.2 | 13.0 | |
| 19 | | 13.0 | 15.2 | 12.8 | 16.8 | 17.1 | 17.4 | 16.3 | 18.8 | 15.8 | 15.2 | | |
| 20 | | 12.1 | 15.3 | 12.0 | 17.7 | 17.0 | 17.2 | 15.1 | 18.6 | 15.5 | 15.1 | | |
| 21 | | 12.1 | 15.2 | 11.6 | 17.5 | 17.0 | 17.0 | 14.4 | 18.8 | 15.7 | 15.0 | | |
| 22 | | 12.2 | 14.9 | 12.2 | 17.1 | 16.6 | 16.8 | 15.0 | 19.0 | 15.7 | 14.9 | | |
| 23 | | 12.4 | 14.8 | 13.0 | 16.7 | 16.9 | 17.3 | 15.5 | 18.4 | 15.6 | 14.8 | | |
| 24 | | 12.8 | 15.5 | 12.6 | 16.1 | 17.2 | 17.5 | 16.0 | 17.9 | 15.6 | 14.7 | | |
| 25 | | 13.0 | 15.2 | 12.8 | 15.0 | 17.1 | 17.5 | 17.2 | 17.4 | 15.7 | 14.2 | | |
| 26 | | 13.4 | 15.2 | 12.0 | 16.0 | 17.6 | 17.5 | 15.7 | 16.8 | 15.7 | 14.0 | | |
| 27 | | 13.4 | 15.5 | 12.1 | 16.1 | 18.0 | 17.6 | 15.6 | 16.2 | 15.5 | 14.0 | | |
| 28 | | 13.5 | 16.0 | 12.6 | 16.2 | 18.2 | 17.6 | 15.4 | 15.6 | 15.5 | 14.0 | | |
| 29 | | | 15.6 | 13.1 | 16.2 | 18.2 | 16.3 | 16.0 | 15.1 | 15.7 | 14.0 | | |
| 30 | | | 15.7 | 13.9 | 16.4 | 18.2 | 16.3 | 16.4 | 14.4 | 15.8 | 14.2 | | |
| 31 | | | 15.7 | | 16.4 | | 16.3 | 17.2 | | 16.2 | | | |
| Mean | 13.0 | 12.9 | 14.8 | 13.4 | 15.8 | 17.1 | 17.5 | 17.1 | 17.6 | 15.6 | 15.4 | 13.4 | 15.3 |
| Max. | 13.6 | 13.6 | 16.0 | 15.7 | 17.7 | 18.2 | 19.0 | 21.2 | 21.4 | 16.6 | 16.4 | 13.8 | 21.4 |
| Min. | 12.6 | 12.1 | 13.2 | 11.6 | 14.1 | 16.0 | 15.5 | 14.4 | 14.2 | 14.0 | 14.0 | 12.6 | 11.6 |
| Range | 1.0 | 1.5 | 2.8 | 4.1 | 3.6 | 2.2 | 3.5 | 6.8 | 7.2 | 2.6 | 2.4 | 1.2 | |
| Std. Dev. | .27 | .47 | .80 | .95 | .89 | .61 | .95 | 1.58 | 1.71 | .76 | .81 | .33 | |

Daily Surface Water Temperatures (°C) for 1955

Balboa, California

33°36'N, 117°54'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 14.3 | 13.2 | 13.0 | 15.0 | 13.8 | 16.4 | 18.6 | 14.2 | 17.3 | 13.6 | 16.2 | 14.2 | |
| 2 | 14.2 | 12.6 | 12.8 | 14.5 | 14.0 | 16.4 | 18.9 | 15.1 | 18.3 | 14.6 | 16.2 | 14.0 | |
| 3 | 13.7 | 11.8 | 13.5 | 12.5 | 14.3 | 16.8 | 18.3 | 17.1 | 17.9 | 13.4 | 16.1 | 11.6 | |
| 4 | 14.0 | 12.0 | 13.4 | 13.5 | 14.2 | 16.9 | 18.0 | 18.3 | 18.9 | 14.2 | 15.7 | 12.2 | |
| 5 | 14.2 | 11.5 | 13.7 | 13.2 | 15.2 | 17.0 | 17.9 | 18.1 | 19.0 | 14.3 | 15.9 | 13.5 | |
| 6 | 14.2 | 12.0 | 13.4 | 12.9 | 15.3 | 17.1 | 18.1 | 17.0 | 18.3 | 15.0 | 16.1 | 13.8 | |
| 7 | 14.1 | 12.0 | 13.0 | 13.6 | 15.6 | 17.0 | 18.3 | 18.3 | 18.5 | 15.0 | 16.0 | 13.7 | |
| 8 | 14.0 | 12.2 | 13.8 | 13.6 | 15.2 | 15.8 | 18.8 | 20.1 | 19.3 | 15.4 | 15.9 | 13.4 | |
| 9 | 13.9 | 12.4 | 14.2 | 13.5 | 14.9 | 17.0 | 19.0 | 21.2 | 19.6 | 17.0 | 15.8 | 13.7 | |
| 10 | 14.0 | 12.5 | 14.0 | 13.8 | 15.3 | 17.0 | 18.8 | 21.2 | 21.3 | 16.0 | 16.2 | 13.7 | |
| 11 | 13.9 | 12.4 | 14.2 | 14.0 | 15.5 | 16.1 | 18.8 | 20.4 | 18.9 | 16.2 | 16.6 | 13.4 | |
| 12 | 13.6 | 12.3 | 14.3 | 13.5 | 15.2 | 17.1 | 19.1 | 18.7 | 17.0 | 16.2 | 16.3 | 13.4 | |
| 13 | 13.5 | 12.7 | 14.2 | 13.2 | 15.2 | 16.5 | 18.6 | 19.9 | 16.5 | 16.5 | 16.0 | 13.7 | |
| 14 | 13.4 | 12.8 | 14.2 | 13.5 | 15.3 | 16.8 | 18.2 | 20.3 | 14.7 | 17.0 | 15.9 | 13.7 | |
| 15 | 13.5 | 13.0 | 14.4 | 13.0 | 15.7 | 16.0 | 17.3 | 19.7 | 18.5 | 16.4 | 15.6 | 13.4 | |
| 16 | 13.7 | 13.3 | 14.6 | 13.7 | 16.0 | 15.5 | 16.6 | 19.6 | 18.8 | 16.1 | 15.8 | 13.4 | |
| 17 | 13.0 | 13.3 | 14.7 | 13.1 | 16.6 | 16.3 | 18.4 | 19.0 | 19.8 | 16.3 | 15.0 | 13.3 | |
| 18 | 12.7 | 13.1 | 14.2 | 12.0 | 16.8 | 16.9 | 18.1 | 19.4 | 20.1 | 16.0 | 15.0 | 13.2 | |
| 19 | 13.5 | 12.6 | 14.4 | 11.0 | 16.9 | 17.4 | 18.5 | 18.5 | 19.0 | 15.7 | 14.9 | 13.6 | |
| 20 | 13.4 | 12.2 | 14.7 | 11.8 | 16.9 | 17.2 | 18.2 | 16.2 | 18.2 | 15.6 | 15.8 | 13.3 | |
| 21 | 13.3 | 12.3 | 14.5 | 12.1 | 17.4 | 17.2 | 17.6 | 14.6 | 18.3 | 15.4 | 15.0 | 13.3 | |
| 22 | 13.4 | 12.4 | 15.0 | 12.9 | 17.1 | 16.6 | 17.2 | 14.0 | 19.0 | 15.8 | 15.1 | 13.3 | |
| 23 | 12.3 | 12.6 | 14.9 | 12.1 | 16.4 | 16.9 | 17.2 | 15.5 | 18.7 | 15.2 | 14.9 | 13.5 | |
| 24 | 13.3 | 12.4 | 14.8 | 11.9 | 16.0 | 17.2 | 17.2 | 17.3 | 18.3 | 15.6 | 14.6 | 13.6 | |
| 25 | 13.2 | 12.5 | 15.0 | 12.0 | 14.4 | 17.7 | 17.4 | 16.7 | 17.8 | 15.8 | 14.0 | 13.3 | |
| 26 | 13.3 | 12.9 | 15.0 | 12.0 | 15.0 | 18.0 | 18.1 | 16.4 | 16.6 | 15.3 | 14.9 | 13.6 | |
| 27 | 13.3 | 12.5 | 15.0 | 11.8 | 16.1 | 17.8 | 18.1 | 15.7 | 15.9 | 15.4 | 13.9 | 14.0 | |
| 28 | 13.2 | 12.8 | 15.5 | 13.1 | 17.1 | 17.6 | 18.7 | 14.6 | 14.6 | 15.2 | 14.0 | 13.5 | |
| 29 | 13.3 | | 14.9 | 13.3 | 17.6 | 18.1 | 18.9 | 15.4 | 14.5 | 15.5 | 14.0 | 13.6 | |
| 30 | 13.3 | | 14.8 | 13.7 | 17.1 | 18.4 | 18.7 | 16.2 | 14.3 | 15.8 | 14.2 | 13.4 | |
| 31 | 13.4 | | 14.8 | | 17.2 | | 15.8 | 17.4 | | 16.0 | | 13.0 | |
| Mean | 13.6 | 12.5 | 14.3 | 13.0 | 15.8 | 17.0 | 18.1 | 17.6 | 17.9 | 15.5 | 15.4 | 13.4 | 15.3 |
| Max. | 14.3 | 13.3 | 15.5 | 15.0 | 17.6 | 18.4 | 19.1 | 21.2 | 21.3 | 17.0 | 16.6 | 14.2 | 21.3 |
| Min. | 12.3 | 11.5 | 12.8 | 11.0 | 13.8 | 15.5 | 15.8 | 14.0 | 14.3 | 13.4 | 13.9 | 11.6 | 11.0 |
| Range | 2.0 | 1.8 | 2.7 | 4.0 | 3.8 | 3.0 | 3.2 | 7.1 | 7.0 | 3.6 | 2.7 | 2.6 | |
| Std. Dev. | .44 | .44 | .67 | .89 | 1.06 | .67 | .75 | 2.10 | 1.71 | .83 | .79 | .46 | |

Daily Surface Salinities (‰) for 1955

Balboa, California 33°36'N, 117°54'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 33.41 | 33.58 | 33.34 | 33.42 | 33.48 | 33.55 | 33.64 | 33.55 | 33.68 | 33.40 | 33.58 | 33.64 | |
| 2 | 33.53 | 33.46 | | 33.44 | 33.41 | 33.60 | 33.68 | 33.55 | 33.86 | 33.44 | 33.62 | 33.80 | |
| 3 | 33.46 | 33.50 | 33.38 | 33.44 | 33.46 | 33.60 | 33.62 | 33.55 | 33.72 | 33.53 | 33.62 | 33.61 | |
| 4 | 33.44 | 33.50 | 33.36 | 33.42 | 33.51 | 33.60 | 33.62 | 33.59 | 33.75 | 33.52 | 33.58 | 33.64 | |
| 5 | 33.42 | 33.47 | 33.38 | 33.44 | 33.50 | 33.58 | 33.67 | 33.55 | 33.64 | 33.54 | 33.58 | 33.63 | |
| 6 | 33.34 | 33.49 | 33.40 | 33.48 | 33.49 | 33.59 | 33.62 | 33.57 | 34.05 | 33.53 | 33.58 | 33.73 | |
| 7 | 33.34 | 33.47 | 33.40 | 33.49 | 33.42 | 33.60 | 33.59 | 33.58 | 34.07 | 33.53 | 33.60 | 33.78 | |
| 8 | 33.47 | 33.53 | 33.40 | 33.46 | 33.47 | 33.57 | 33.64 | 33.59 | 33.91 | 33.52 | 33.61 | 33.84 | |
| 9 | 33.46 | 33.49 | 33.38 | 33.47 | 33.46 | 33.58 | 33.25 | 33.64 | 33.72 | 33.53 | 34.13 | 33.68 | |
| 10 | 33.48 | 33.48 | 33.38 | 33.46 | 33.44 | 33.58 | 33.56 | 33.66 | 33.71 | 33.66 | 33.93 | 33.57 | |
| 11 | 33.47 | 33.50 | 33.38 | 33.46 | 33.46 | 33.57 | 33.57 | 33.64 | 33.88 | 33.66 | 33.89 | 33.78 | |
| 12 | 33.48 | 33.55 | 33.39 | 33.48 | 33.46 | 33.61 | 33.60 | 33.57 | 34.04 | 33.57 | 33.96 | 33.77 | |
| 13 | 33.51 | 33.58 | 33.39 | 33.48 | 33.40 | 33.61 | 33.58 | 33.55 | 33.77 | 33.58 | 34.04 | 33.72 | |
| 14 | 33.49 | 33.62 | 33.41 | 33.48 | 33.36 | 33.58 | 33.57 | 33.64 | 33.62 | 33.56 | 33.87 | 33.57 | |
| 15 | 33.54 | 33.57 | 33.40 | 33.53 | 33.40 | 33.57 | 33.57 | 33.57 | 33.80 | 33.64 | 33.83 | 33.59 | |
| 16 | 33.50 | 33.57 | 33.43 | 33.51 | 33.42 | 33.54 | 33.57 | 33.55 | 33.71 | 33.63 | 33.94 | 33.66 | |
| 17 | 33.51 | 33.57 | 33.42 | 33.53 | 33.42 | 33.56 | 33.57 | 33.55 | 33.71 | 33.58 | 33.73 | 33.52 | |
| 18 | 33.54 | 33.58 | 33.41 | 33.54 | 33.43 | 33.54 | | 33.60 | 33.73 | 33.93 | 33.78 | 33.59 | |
| 19 | 33.51 | 33.57 | 33.43 | 33.67 | 33.43 | 33.53 | 33.53 | 33.52 | 33.78 | 33.60 | 33.71 | 33.66 | |
| 20 | 33.44 | 33.54 | 33.40 | 33.64 | 33.45 | 33.55 | 33.55 | 33.53 | 33.86 | 33.57 | 33.77 | 33.60 | |
| 21 | 33.48 | 33.60 | 33.40 | 33.58 | 33.46 | 33.54 | 33.53 | 33.58 | 33.78 | 33.56 | 33.64 | 33.83 | |
| 22 | 33.57 | 33.54 | 33.39 | 33.53 | 33.46 | 33.56 | 33.57 | 33.62 | 33.65 | 33.52 | 33.63 | 33.71 | |
| 23 | 33.50 | 33.53 | 33.39 | 33.55 | 33.52 | 33.57 | 33.54 | 33.59 | 33.63 | 33.53 | | 33.51 | |
| 24 | 33.47 | 33.49 | 33.38 | 33.56 | 33.53 | 33.55 | 33.54 | 33.55 | 33.57 | 33.53 | 33.63 | 33.52 | |
| 25 | 33.51 | 33.47 | 33.37 | 33.56 | 33.52 | 33.57 | 33.56 | 33.57 | 33.77 | 33.58 | 33.71 | 33.52 | |
| 26 | 33.57 | 33.38 | 33.40 | 33.52 | 33.54 | | 33.57 | 33.57 | 33.48 | 33.58 | 33.64 | 33.55 | |
| 27 | 33.53 | 33.35 | 33.39 | 33.53 | 33.54 | 33.66 | 33.58 | 33.57 | 33.54 | 33.56 | 33.86 | 33.55 | |
| 28 | | 33.37 | 33.40 | 33.58 | 33.55 | 33.66 | 33.58 | 33.54 | 33.48 | 33.54 | 33.53 | 33.52 | |
| 29 | 33.55 | | 33.40 | 33.56 | 33.55 | | 33.60 | 33.57 | 33.49 | 33.55 | 33.58 | 33.54 | |
| 30 | 33.47 | | 33.40 | 33.55 | 33.56 | | 33.58 | 34.00 | 33.42 | 33.57 | 33.60 | 33.56 | |
| 31 | 33.53 | | 33.42 | | 33.56 | | 33.58 | 33.97 | | 33.54 | | 33.52 | |
| Mean | 33.48 | 33.51 | 33.39 | 33.51 | 33.47 | 33.58 | 33.57 | 33.60 | 33.73 | 33.57 | 33.73 | 33.64 | 33.56 |
| Max. | 33.57 | 33.62 | 33.43 | 33.67 | 33.56 | 33.66 | 33.68 | 34.00 | 34.07 | 33.93 | 34.13 | 33.84 | 34.13 |
| Min. | 33.34 | 33.35 | 33.34 | 33.42 | 33.36 | 33.53 | 33.25 | 33.52 | 33.42 | 33.40 | 33.53 | 33.51 | 33.25 |
| Range | .23 | .27 | .09 | .25 | .20 | .13 | .43 | .48 | .65 | .53 | .60 | .33 | |
| Std. Dev. | .06 | .07 | .02 | .06 | .05 | .03 | .07 | .11 | .16 | .08 | .16 | .10 | |

Daily Surface Water Temperatures (°C) for 1955

Doheny Beach, California

33°27'N, 117°40'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | | | | 17.6 | 19.7 | 18.7 | 18.6 | 15.2 | 16.0 | 13.8 |
| 2 | | | | | | | 19.5 | 17.5 | 19.3 | 14.8 | 15.8 | 13.5 |
| 3 | | | | | | 18.9 | 20.5 | 18.0 | 19.4 | 15.2 | 15.8 | 11.3 |
| 4 | | | | | | 18.6 | 20.5 | 19.3 | 19.5 | 15.2 | 15.4 | 12.5 |
| 5 | | | | | | 18.8 | 19.5 | 20.0 | 19.4 | 15.8 | 15.0 | 13.0 |
| 6 | | | | | | | | 20.0 | 18.6 | 15.6 | 15.9 | 13.5 |
| 7 | | | | | | 19.0 | | 20.2 | | 16.7 | 15.8 | 14.2 |
| 8 | | | | | | 18.8 | 20.1 | 20.0 | 21.0 | 17.3 | 16.1 | 13.5 |
| 9 | | | | | | 18.6 | 20.7 | 21.0 | 21.2 | 17.4 | 15.4 | 13.3 |
| 10 | | | | | | 18.0 | 20.5 | 20.9 | 22.3 | 17.6 | 15.7 | 13.6 |
| 11 | | | | | | 18.7 | 20.1 | 21.4 | 21.6 | 17.2 | 16.4 | 13.4 |
| 12 | | | | | | 18.8 | 20.7 | 21.3 | 19.7 | 16.2 | 16.1 | 13.3 |
| 13 | | | | | | 20.2 | | 21.5 | 18.7 | 17.3 | 16.2 | 13.0 |
| 14 | | | | | | 18.3 | 20.1 | 21.6 | 18.3 | 17.1 | 15.9 | 13.6 |
| 15 | | | | | | | 20.1 | 21.7 | 18.4 | 17.2 | 15.8 | 13.1 |
| 16 | | | | | | | 21.7 | 21.7 | 19.5 | 17.0 | 14.6 | 12.8 |
| 17 | | | | | | | 18.2 | 21.2 | 19.7 | 16.6 | 14.4 | 12.9 |
| 18 | | | | | | 17.8 | 19.0 | | 20.2 | 16.7 | 13.9 | 12.8 |
| 19 | | | | | | 18.2 | 19.6 | 19.7 | 20.1 | 16.7 | 14.5 | 12.8 |
| 20 | | | | | | 19.3 | | 19.0 | 19.2 | 16.5 | 14.5 | 12.3 |
| 21 | | | | | 16.8 | 17.9 | 19.4 | 18.3 | 19.4 | 16.8 | 15.2 | 13.8 |
| 22 | | | | | 16.5 | 17.9 | 18.1 | 17.3 | 19.8 | 16.7 | 14.2 | 13.4 |
| 23 | | | | | 16.6 | | 18.0 | 18.8 | 19.4 | 16.1 | 14.4 | |
| 24 | | | | | 17.1 | 19.0 | 18.7 | 20.0 | 19.2 | 16.0 | 15.2 | 13.7 |
| 25 | | | | | | 18.2 | 20.2 | 20.9 | 18.3 | 16.3 | 14.7 | |
| 26 | | | | | | 18.9 | 20.5 | 18.7 | 18.3 | 15.9 | 13.7 | |
| 27 | | | | | 17.8 | | 19.6 | 18.6 | 17.4 | 16.0 | 13.9 | |
| 28 | | | | | 19.8 | 18.7 | 20.0 | 16.8 | 17.2 | 15.5 | 14.2 | |
| 29 | | | | | 18.9 | | 20.7 | 17.7 | 16.3 | 15.8 | 14.0 | |
| 30 | | | | | 18.5 | | 19.6 | 17.5 | 15.9 | 15.7 | 14.2 | |
| 31 | | | | | 17.6 | | 20.2 | 18.2 | | 15.9 | | |
| Mean | | | | | 17.7 | 18.6 | 19.8 | 19.6 | 19.2 | 16.3 | 15.1 | 13.2 |
| Max. | | | | | 19.8 | 20.2 | 21.7 | 21.7 | 22.3 | 17.6 | 16.4 | 14.2 |
| Min. | | | | | 16.5 | 17.6 | 18.0 | 17.3 | 15.9 | 14.8 | 13.7 | 11.3 |
| Range | | | | | 3.3 | 2.6 | 3.7 | 4.4 | 6.4 | 2.8 | 2.7 | 3.0 |
| Std. Dev. | | | | | 1.07 | .58 | .86 | 1.49 | 1.40 | .74 | .82 | .60 |

Daily Surface Water Temperatures (°C) for 1955

Catalina Isthmus, California

33°26'N, 118°30'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | | | 15.4 | | 17.0 | 18.5 | 19.5 | 20.5 | 17.4 | 16.2 | 14.8 |
| 2 | | | | 15.1 | 13.9 | 17.0 | 19.0 | 19.1 | 21.4 | 17.0 | 16.1 | 14.6 |
| 3 | | | | 15.2 | 14.9 | 17.5 | 18.8 | 19.5 | 21.0 | 17.0 | 16.3 | 14.5 |
| 4 | | | | 15.5 | | 17.5 | 18.7 | | 20.5 | 16.5 | 16.0 | 14.0 |
| 5 | | | | 15.9 | | 17.8 | 18.7 | 21.5 | 20.2 | 16.5 | 15.8 | 13.5 |
| 6 | | | | 15.3 | 14.9 | 17.8 | 17.5 | 21.0 | 20.4 | 16.5 | 15.8 | 13.5 |
| 7 | | | | 15.1 | 14.8 | 17.5 | 18.8 | 21.5 | 19.5 | 16.5 | 15.8 | 13.5 |
| 8 | | | | 14.9 | 15.0 | 17.5 | 19.2 | 21.0 | 20.4 | 16.5 | 15.8 | 13.8 |
| 9 | | | | 15.2 | 15.4 | 17.0 | 19.0 | 21.0 | 20.8 | 17.0 | 15.8 | 13.8 |
| 10 | | | | 15.4 | 15.5 | 17.0 | 19.0 | 20.8 | 21.0 | 16.8 | 15.8 | 14.0 |
| 11 | | | | 15.3 | 15.5 | 17.0 | 19.0 | 20.5 | 20.4 | 17.0 | 15.8 | 14.0 |
| 12 | | | | 15.3 | 15.8 | 17.0 | 19.5 | 20.5 | 20.5 | 16.5 | 16.4 | 14.0 |
| 13 | | | | 15.9 | 15.7 | 17.5 | 18.7 | 21.0 | 20.8 | 16.4 | 16.2 | 13.9 |
| 14 | | | 14.2 | 15.4 | 15.7 | 17.0 | 13.8 | 21.5 | 20.7 | 16.5 | 15.8 | 13.9 |
| 15 | | | 13.7 | 15.6 | 15.9 | 17.5 | 13.8 | 21.0 | 20.0 | 16.4 | 15.6 | 14.0 |
| 16 | | | 13.9 | 15.7 | 16.5 | 18.5 | 19.0 | 21.0 | | 16.5 | 15.6 | 14.0 |
| 17 | | | 14.0 | 15.8 | 16.4 | 17.6 | 19.0 | 21.0 | 19.5 | 16.5 | 15.3 | 13.9 |
| 18 | | | 14.1 | 15.5 | 17.0 | 18.8 | 20.0 | 21.0 | 19.0 | 16.5 | 15.4 | 13.9 |
| 19 | | | 13.9 | 15.4 | 17.3 | 18.8 | 19.8 | 21.0 | 19.0 | 16.8 | 15.5 | 13.9 |
| 20 | | | 14.0 | 15.4 | 16.8 | 18.8 | 19.8 | 21.0 | 18.8 | 16.5 | 15.6 | 13.9 |
| 21 | | | 14.1 | 15.1 | 16.5 | 18.8 | 19.5 | 20.3 | 18.0 | 16.6 | 15.5 | 14.0 |
| 22 | | | 13.9 | 14.1 | 17.0 | 18.8 | 19.7 | 19.8 | 18.0 | 16.5 | 15.5 | 14.2 |
| 23 | | | 14.2 | 14.5 | 16.8 | 18.5 | 19.7 | 19.8 | 18.2 | 16.4 | 15.2 | 14.2 |
| 24 | | | 14.2 | 14.5 | 16.0 | 18.3 | 19.5 | 19.5 | 18.0 | 16.2 | 15.3 | |
| 25 | | | 14.2 | 14.0 | 16.5 | 18.0 | 19.8 | 19.8 | 18.0 | 16.4 | 15.3 | 14.0 |
| 26 | | | 14.7 | 14.1 | 16.5 | 17.5 | 19.8 | 20.2 | 17.8 | 16.5 | 15.2 | 14.0 |
| 27 | | | 14.4 | 14.4 | 16.4 | 17.8 | 19.8 | 20.4 | 17.8 | 16.3 | 15.0 | 14.0 |
| 28 | | | 14.6 | 14.6 | 17.0 | 18.0 | 20.0 | 20.4 | 18.0 | 16.3 | 14.8 | 14.0 |
| 29 | | | 14.9 | 14.3 | 17.2 | 17.5 | 20.0 | 20.4 | 17.5 | 16.3 | 14.9 | 13.8 |
| 30 | | | 15.0 | 14.6 | 17.0 | 18.5 | 20.1 | 20.4 | 17.4 | 16.2 | 14.9 | 13.8 |
| 31 | | | 15.4 | | 17.0 | | 20.2 | 21.2 | | 16.2 | | 13.8 |
| Mean | | | 14.3 | 15.1 | 16.1 | 17.8 | 19.3 | 20.6 | 19.4 | 16.6 | 15.6 | 14.0 |
| Max. | | | 15.4 | 15.9 | 17.3 | 18.8 | 20.2 | 21.5 | 21.4 | 17.4 | 16.4 | 14.8 |
| Min. | | | 13.7 | 14.0 | 13.9 | 17.0 | 17.5 | 19.1 | 17.4 | 16.2 | 14.8 | 13.5 |
| Range | | | 1.7 | 1.9 | 3.4 | 1.8 | 2.7 | 2.4 | 3.0 | 1.2 | 1.6 | 1.3 |
| Std. Dev. | | | .44 | .54 | .86 | .63 | .60 | .65 | 1.27 | .27 | .42 | .28 |

Daily Surface Water Temperatures (°C) for 1955

Avalon, Catalina, California

33°21'N, 118°19'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1 | | | 13.5 | 16.0 | 14.2 | 17.4 | 19.0 | 19.5 | 19.8 | | | |
| 2 | | | | 15.6 | 14.5 | 17.3 | | 19.5 | 20.7 | | | |
| 3 | | | 13.3 | 15.0 | 14.4 | 17.6 | 18.8 | 21.6 | 20.6 | | | |
| 4 | | | 13.7 | 14.0 | 14.6 | 17.9 | 18.5 | 20.0 | 20.6 | | | |
| 5 | | | 13.5 | 14.6 | 14.5 | 17.8 | | 20.5 | 20.9 | | | |
| 6 | | | 13.6 | 15.0 | 14.4 | 17.8 | | | 21.4 | | | |
| 7 | | 12.8 | 13.9 | 15.2 | 14.5 | 17.6 | 19.4 | 20.5 | 21.4 | | | |
| 8 | | 13.0 | 13.8 | 15.5 | | 17.0 | 19.0 | 20.4 | 21.3 | | | |
| 9 | | 13.2 | 13.6 | | | 17.3 | 19.5 | | 21.3 | | | |
| 10 | | 13.0 | 13.6 | 15.6 | | 17.1 | 19.0 | 21.2 | 20.8 | | | |
| 11 | | 13.1 | | 15.4 | | 17.4 | 17.8 | 22.3 | 20.7 | | | |
| 12 | | 13.3 | 13.4 | 15.4 | | 17.3 | | 22.2 | 20.4 | | | |
| 13 | | 13.4 | 13.6 | 16.0 | | 17.5 | 18.0 | 21.3 | 20.3 | | | |
| 14 | | 13.4 | 13.8 | 15.6 | | 17.8 | 18.9 | 21.6 | 20.0 | | | |
| 15 | | 13.4 | 13.4 | 15.6 | | 17.8 | 19.0 | | 20.0 | | | |
| 16 | | 13.2 | 13.8 | 15.8 | | 17.6 | 19.0 | 21.6 | 19.5 | | | |
| 17 | | 13.6 | 13.8 | 15.5 | | 17.8 | 19.0 | 21.5 | 20.0 | | | |
| 18 | | 13.8 | 14.9 | 15.2 | | 17.9 | 19.8 | 21.4 | 19.8 | | | |
| 19 | | 14.0 | 14.3 | 15.2 | 17.7 | 18.0 | 19.0 | 21.5 | 19.8 | | | |
| 20 | | 13.3 | 14.6 | 15.0 | 17.4 | 17.9 | 19.6 | 21.5 | 19.8 | | | |
| 21 | | 13.4 | 14.4 | 15.1 | 17.0 | 19.0 | 19.9 | 21.4 | 19.4 | | | |
| 22 | | 13.3 | 14.3 | 14.9 | 15.6 | 19.0 | 19.5 | 20.7 | 19.4 | | | |
| 23 | | 13.3 | 14.4 | 15.0 | 15.8 | 19.5 | 19.0 | 20.9 | 18.9 | | | |
| 24 | | 13.1 | 15.0 | 15.3 | 15.9 | 19.0 | 19.0 | 20.8 | 18.8 | | | |
| 25 | | 13.3 | 15.0 | 14.7 | 16.5 | 19.2 | 19.0 | 20.5 | 18.8 | | | |
| 26 | | 13.2 | | 14.8 | 17.0 | 19.4 | 19.2 | 20.5 | | | | |
| 27 | | 13.4 | 14.8 | 14.4 | 16.5 | | 19.6 | 20.7 | | | | |
| 28 | | 13.5 | 14.3 | 14.7 | | 18.7 | 20.2 | 20.6 | | | | |
| 29 | | | | 14.0 | 17.4 | 19.0 | 20.5 | 20.2 | | | | |
| 30 | | | 14.6 | 15.0 | 17.5 | 19.0 | | 20.2 | | | | |
| 31 | | | 16.1 | | 17.3 | | 19.4 | 20.3 | | | | |
| Mean | | 13.3 | 14.1 | 15.1 | 15.9 | 18.1 | 19.2 | 20.9 | 20.2 | | | |
| Max. | | 14.0 | 16.1 | 16.0 | 17.7 | 19.5 | 20.5 | 22.3 | 21.4 | | | |
| Min. | | 12.8 | 13.3 | 14.0 | 14.2 | 17.0 | 17.8 | 19.5 | 18.8 | | | |
| Range | | 1.2 | 2.8 | 2.0 | 3.5 | 2.5 | 2.7 | 2.8 | 2.6 | | | |
| Std. Dev. | | .26 | .65 | .50 | 1.27 | .74 | .58 | .71 | .78 | | | |

Daily Surface Water Temperatures (°C) for 1955

San Nicolas Island, California

33°17'N, 119°32'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | | 12.9 | 12.8 | 13.2 | 13.0 | 13.7 | 15.5 | 15.0 | 18.4 | | 16.2 | 13.8 | |
| 2 | | 11.8 | 12.8 | 12.2 | 12.9 | 13.4 | 15.6 | | 18.0 | | 15.8 | 13.5 | |
| 3 | 13.8 | 12.0 | 12.7 | 12.3 | 13.2 | 13.8 | 15.5 | 17.4 | | 16.6 | | | |
| 4 | 13.3 | 12.5 | 12.8 | 13.0 | 13.2 | 14.2 | 15.2 | 17.6 | | 16.2 | 15.9 | | |
| 5 | 13.0 | 12.4 | 13.0 | 12.8 | 13.3 | 14.2 | 15.3 | 17.6 | | 16.4 | | | |
| 6 | 13.2 | 13.3 | 13.0 | 12.9 | 13.3 | 15.4 | 15.6 | 17.6 | 17.5 | 16.7 | | 13.3 | |
| 7 | 12.9 | 13.4 | 12.8 | 12.7 | 13.4 | 15.7 | 15.5 | 17.2 | 16.7 | 16.0 | 15.8 | 13.8 | |
| 8 | 12.6 | 12.2 | 13.4 | 13.1 | 13.6 | 14.8 | 15.3 | 17.1 | | | 16.2 | 13.7 | |
| 9 | 12.5 | 13.1 | 13.4 | 13.7 | 13.6 | 15.1 | 15.6 | 17.6 | 16.5 | | 15.8 | | |
| 10 | 12.4 | 12.6 | 13.9 | 13.3 | 13.4 | 15.3 | 15.3 | 17.3 | | 15.8 | 15.8 | | |
| 11 | 12.7 | 12.5 | 13.6 | 13.5 | 13.4 | 15.5 | 14.4 | 17.0 | | 15.2 | | | |
| 12 | 12.8 | 12.6 | 13.6 | 13.7 | 13.6 | 14.7 | 13.8 | 17.0 | 15.9 | 15.4 | | | |
| 13 | 12.6 | 12.8 | 13.5 | 13.8 | | 14.2 | 13.9 | | 16.2 | 14.8 | | | |
| 14 | 12.4 | 13.3 | 13.5 | 13.7 | | 14.6 | 15.9 | | 16.8 | 15.2 | 15.1 | | |
| 15 | 12.5 | 13.1 | 13.3 | 13.4 | | 14.8 | 16.0 | 18.5 | 16.2 | | 15.2 | | |
| 16 | 12.4 | 13.4 | 13.0 | 13.4 | | 15.4 | 16.1 | 17.5 | 16.4 | | 14.8 | | |
| 17 | 11.3 | 13.6 | 12.6 | 13.5 | | 15.6 | 16.2 | 17.6 | | 15.8 | 14.7 | | |
| 18 | 12.3 | 13.5 | 13.1 | 13.5 | | 15.2 | 16.2 | 18.0 | | 15.5 | 14.4 | | |
| 19 | 12.6 | 13.0 | 13.8 | 13.4 | | 14.9 | 16.1 | 17.9 | 15.2 | | | | |
| 20 | 11.5 | 13.0 | 13.3 | 13.4 | | 14.9 | 15.9 | 17.7 | 14.8 | 16.4 | | | |
| 21 | 11.9 | 13.0 | 13.1 | 13.4 | | 14.7 | 15.3 | | 17.0 | 16.1 | 14.4 | | |
| 22 | 11.9 | 13.3 | 13.0 | 12.2 | | 15.2 | 14.8 | 15.5 | 16.1 | | | | |
| 23 | 12.1 | 13.1 | 13.4 | 12.3 | 13.4 | 15.4 | | 16.3 | 15.9 | | 13.8 | | |
| 24 | 12.2 | 13.0 | 13.2 | 13.0 | 13.2 | 15.3 | | 16.3 | | 16.6 | | | |
| 25 | 12.3 | 12.8 | 13.3 | 13.0 | 14.0 | 15.2 | 15.2 | 16.0 | | 16.5 | | | |
| 26 | 12.3 | 13.1 | 13.4 | 13.2 | 14.0 | 15.2 | 15.1 | 16.5 | 17.2 | 16.2 | 13.8 | | |
| 27 | 12.4 | 12.8 | 13.6 | 12.7 | 13.5 | 15.4 | 15.0 | 15.9 | 17.0 | 16.4 | | | |
| 28 | 12.8 | 12.2 | 13.2 | 12.8 | 13.7 | 15.1 | 15.2 | 17.0 | 16.9 | 16.9 | 13.8 | | |
| 29 | 12.8 | | 13.4 | 12.7 | 13.6 | 15.5 | 15.0 | 17.4 | 17.3 | | 13.6 | | |
| 30 | 12.7 | | 13.2 | 12.9 | 13.4 | 15.4 | 14.9 | 17.5 | 16.6 | | 13.5 | | |
| 31 | 12.4 | | 13.7 | | 14.0 | | 14.9 | | | 16.4 | | | |
| Mean | 12.5 | 12.9 | 13.2 | 13.1 | 13.4 | 14.9 | 15.3 | 17.1 | 16.6 | 16.1 | 14.9 | 13.6 | 14.5 |
| Max. | 13.8 | 13.6 | 13.9 | 13.8 | 14.0 | 15.7 | 16.2 | 18.5 | 18.4 | 16.9 | 16.2 | 13.8 | 18.5 |
| Min. | 11.3 | 11.8 | 12.6 | 12.2 | 12.9 | 13.4 | 13.8 | 15.0 | 14.8 | 14.8 | 13.5 | 13.3 | 11.3 |
| Range | 2.4 | 1.8 | 1.3 | 1.6 | 1.1 | 2.2 | 2.4 | 3.4 | 3.6 | 2.1 | 2.8 | .52 | |
| Std. Dev. | .45 | .45 | .33 | .44 | .29 | .59 | .59 | .80 | .78 | .56 | .94 | .19 | |

Daily Surface Water Temperatures (°C) for 1955

Oceanside, California

33°12'N, 117°23'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | | 13.2 | 13.0 | 13.7 | | 17.6 | 18.7 | 18.2 | 18.4 | 15.0 | 15.8 | 13.5 | |
| 2 | | 13.1 | 12.7 | 13.0 | | 17.6 | 19.0 | 18.8 | 19.3 | 15.0 | 16.1 | 13.2 | |
| 3 | 14.5 | 12.2 | 13.1 | 13.0 | | 17.0 | 18.8 | 19.1 | 20.0 | 15.0 | 16.0 | 12.8 | |
| 4 | 13.7 | 12.6 | 13.2 | | | 17.1 | | 20.7 | 20.0 | 15.0 | 15.8 | 13.0 | |
| 5 | 13.5 | 12.0 | 13.1 | | | 18.0 | 18.9 | 20.6 | 20.4 | 15.1 | 15.6 | 13.3 | |
| 6 | 13.1 | 12.3 | 13.2 | | | 17.9 | 18.9 | 20.9 | 19.2 | 16.7 | 15.5 | 13.7 | |
| 7 | 13.1 | 13.1 | 13.1 | | | 18.2 | 19.0 | 20.9 | 19.7 | 16.0 | 15.6 | 13.5 | |
| 8 | 13.1 | 11.5 | 13.2 | | | 18.4 | 19.1 | 21.9 | 19.2 | 16.0 | 15.5 | 13.2 | |
| 9 | 12.2 | 12.0 | 13.6 | | | 18.1 | 19.1 | 21.4 | 22.4 | 16.5 | 15.6 | 13.4 | |
| 10 | 13.4 | 12.1 | | | | 17.7 | 20.0 | 22.2 | 22.2 | 17.2 | 15.7 | 13.5 | |
| 11 | 13.6 | 11.5 | | | | 18.0 | 20.3 | 22.0 | 20.3 | 17.4 | 15.5 | 13.8 | |
| 12 | 10.1 | 12.2 | | | | 18.2 | 19.1 | 20.2 | 19.1 | 17.0 | 15.8 | 13.0 | |
| 13 | 12.4 | 13.0 | | | | 18.1 | 20.0 | 20.1 | 19.9 | 17.2 | 15.7 | 12.9 | |
| 14 | 13.0 | 12.5 | | | | 17.8 | 20.0 | 21.1 | 18.2 | 17.0 | 15.2 | 13.4 | |
| 15 | 12.7 | 13.1 | | | | 16.1 | 19.9 | 21.5 | 18.8 | 17.3 | 15.1 | 13.5 | |
| 16 | 13.1 | 13.2 | | | | 16.7 | 18.6 | 21.8 | 20.4 | 17.2 | 14.9 | 13.1 | |
| 17 | 13.7 | 13.1 | | | | 17.0 | 18.1 | 20.9 | 21.0 | 16.8 | 15.0 | 13.4 | |
| 18 | 13.0 | 13.0 | | | | 16.8 | 19.9 | 21.0 | 20.6 | 16.6 | 15.5 | 13.2 | |
| 19 | 13.2 | 11.4 | | | | 18.2 | 19.9 | 20.4 | 18.7 | 16.5 | 15.0 | 13.1 | |
| 20 | 13.2 | 11.1 | | | | 17.6 | 20.1 | 18.2 | 19.4 | 16.7 | 15.3 | 13.3 | |
| 21 | 13.3 | 12.5 | 13.8 | | 17.8 | 17.1 | 19.3 | 18.0 | 19.0 | 16.2 | 15.3 | 13.2 | |
| 22 | 13.6 | 12.0 | 14.1 | | 17.6 | 17.4 | 19.9 | 16.9 | 19.8 | 16.4 | 14.5 | 13.6 | |
| 23 | 13.4 | 12.5 | 13.8 | | 17.4 | 18.0 | 19.4 | 16.7 | 19.4 | 16.3 | 14.4 | 13.4 | |
| 24 | 13.4 | 12.7 | 13.8 | | | 18.1 | 18.2 | 18.3 | 19.6 | 15.7 | 14.1 | 13.1 | |
| 25 | 13.0 | 12.1 | 14.0 | | 17.2 | 17.8 | 18.3 | 18.2 | 18.1 | 16.0 | 14.0 | 13.2 | |
| 26 | 12.4 | 12.0 | 13.5 | | 17.4 | | 18.4 | 15.6 | 18.0 | 15.8 | 14.0 | 12.8 | |
| 27 | 13.0 | 12.2 | 13.4 | | 17.2 | 18.4 | 19.8 | 15.4 | 18.0 | 16.1 | 14.1 | 13.0 | |
| 28 | 12.4 | 12.8 | 13.6 | | | 18.4 | 18.0 | 14.8 | 18.0 | 16.3 | 14.3 | 13.2 | |
| 29 | 12.5 | | 13.9 | | 17.2 | 18.8 | 19.0 | 13.4 | 18.2 | 16.5 | 14.0 | 13.2 | |
| 30 | 13.3 | | 13.7 | | 17.0 | 18.8 | 19.2 | 16.6 | 14.3 | 16.8 | 13.8 | 12.6 | |
| 31 | 13.4 | | 13.8 | | 17.9 | | 18.1 | 17.6 | | 16.1 | | 12.5 | |
| Mean | 13.0 | 12.4 | 13.5 | 13.2 | 17.4 | 17.8 | 19.2 | 19.1 | 19.3 | 16.3 | 15.1 | 13.2 | 15.8 |
| Max. | 14.5 | 13.2 | 14.1 | 13.7 | 17.9 | 18.8 | 20.3 | 22.2 | 22.4 | 17.4 | 16.1 | 13.8 | 22.4 |
| Min. | 10.1 | 11.1 | 12.7 | 13.0 | 17.0 | 16.1 | 18.0 | 13.4 | 14.3 | 15.0 | 13.8 | 12.5 | 10.1 |
| Range | 4.4 | 2.1 | 1.4 | .7 | .8 | 2.7 | 2.3 | 8.8 | 8.1 | 2.4 | 2.3 | 1.2 | |
| Std. Dev. | .73 | .58 | .38 | .32 | .27 | .63 | .53 | 2.34 | 1.45 | .71 | .69 | .29 | |

- Oct -

Daily Surface Water Temperatures (°C) for 1955

San Clemente Island, California 33°00'N, 118°33'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | | | 13.4 | 14.6 | 13.1 | 15.6 | 17.2 | 16.4 | 16.5 | 9.4 | | 12.1 | |
| 2 | | | 13.6 | 13.8 | 13.9 | 15.6 | 17.0 | 17.0 | 17.2 | 10.0 | | 12.2 | |
| 3 | | | 14.1 | 14.7 | 14.0 | 15.5 | 17.1 | 16.1 | 18.0 | | | 11.1 | |
| 4 | | | 14.0 | 14.7 | 14.0 | 15.5 | 17.1 | 16.9 | 17.0 | | | 10.5 | |
| 5 | | | 14.0 | 15.2 | 14.2 | 15.4 | 16.8 | 16.5 | | | | 10.5 | |
| 6 | | | 14.2 | 15.8 | 14.3 | 15.6 | 17.0 | 16.7 | | | | 11.2 | |
| 7 | | | 13.1 | 14.5 | 14.3 | 15.8 | 16.9 | 16.6 | | | 13.4 | 11.3 | |
| 8 | | | 14.0 | 14.2 | 14.2 | 16.1 | 16.8 | 16.5 | | | 13.6 | 11.2 | |
| 9 | | | 14.1 | 15.2 | 14.6 | 16.0 | 17.2 | 16.4 | | | 13.7 | 11.2 | |
| 10 | | | 14.1 | 14.8 | 14.6 | 16.3 | 16.9 | 16.5 | | | 13.6 | 11.5 | |
| 11 | | | 13.9 | 14.4 | 14.7 | 16.7 | 16.9 | 16.1 | | | 13.3 | 12.2 | |
| 12 | | | 14.9 | 14.2 | 14.6 | 16.4 | 16.0 | 16.4 | 17.0 | | 13.5 | 12.3 | |
| 13 | | | 14.9 | 13.9 | 14.7 | 16.4 | 16.9 | 16.3 | 17.2 | | 13.4 | 12.2 | |
| 14 | | | 14.5 | 14.0 | 14.7 | 16.5 | 16.0 | 16.5 | 17.4 | | 13.4 | 11.3 | |
| 15 | | | 14.8 | 14.3 | 14.9 | 16.8 | 17.0 | 16.4 | 17.5 | | 13.3 | 11.3 | |
| 16 | | | 14.4 | 14.4 | 15.0 | 16.8 | 17.8 | 16.1 | 16.9 | | 12.3 | 11.3 | |
| 17 | | | 14.6 | 14.3 | 15.0 | 16.7 | 19.2 | 15.2 | 17.1 | | 12.3 | 11.4 | |
| 18 | | | 14.4 | 13.9 | 15.1 | 16.6 | 19.4 | 15.2 | 17.0 | | 12.6 | 11.2 | |
| 19 | | | 14.6 | 13.9 | 14.4 | 16.7 | 17.6 | 16.3 | 20.6 | | 12.4 | 11.3 | |
| 20 | | | 14.6 | 14.0 | 14.4 | 16.6 | 17.8 | 15.9 | 18.4 | | 12.5 | 11.4 | |
| 21 | | | 14.6 | 14.1 | 14.3 | 16.7 | 18.0 | 15.9 | 20.0 | | 12.4 | 11.3 | |
| 22 | | | 14.8 | 14.3 | 14.4 | 15.5 | 18.2 | 15.3 | 20.6 | | 12.5 | 11.2 | |
| 23 | | | 14.7 | 14.2 | 14.5 | 16.4 | 17.2 | 15.4 | 15.6 | | 12.4 | 11.2 | |
| 24 | 13.5 | | 14.6 | 14.3 | 14.6 | 16.5 | 18.0 | 15.7 | 11.1 | | 12.5 | 11.1 | |
| 25 | 13.5 | | 14.8 | 14.1 | 14.8 | 16.8 | 18.0 | 15.9 | 15.7 | | 12.4 | 11.2 | |
| 26 | 13.6 | | 14.7 | 14.2 | 14.7 | 16.6 | 18.4 | 16.8 | 10.6 | | 12.3 | 11.4 | |
| 27 | 13.5 | | 14.6 | 14.3 | 14.7 | 17.0 | 19.0 | 15.9 | 11.1 | | 12.3 | 11.3 | |
| 28 | 13.6 | 13.4 | 14.6 | 14.3 | 14.9 | 17.0 | 19.4 | 16.4 | 11.7 | | 11.3 | 11.3 | |
| 29 | 13.0 | | 15.2 | 13.9 | 14.9 | 17.1 | 19.6 | 16.3 | 10.6 | | 11.4 | 11.2 | |
| 30 | 13.4 | | 14.5 | 13.9 | 15.4 | 17.1 | 17.0 | 16.1 | 11.1 | | 11.6 | 11.1 | |
| 31 | | | 16.5 | | 15.5 | | 16.6 | 17.0 | | | | 11.2 | |
| Mean | 13.4 | 13.4 | 14.4 | 14.4 | 14.6 | 16.4 | 17.6 | 16.3 | 15.9 | 9.7 | 12.7 | 11.4 | 14.2 |
| Max. | 13.6 | 13.4 | 16.5 | 15.8 | 15.5 | 17.1 | 19.6 | 17.0 | 20.6 | 10.0 | 13.7 | 12.3 | 20.6 |
| Min. | 13.0 | 13.4 | 13.1 | 13.8 | 13.1 | 15.4 | 16.0 | 15.3 | 10.6 | 9.4 | 11.4 | 10.5 | 9.4 |
| Range | .6 | .0 | 3.4 | 2.0 | 2.4 | 1.7 | 3.6 | 1.7 | 10.0 | .6 | 2.3 | 1.8 | |
| Std. Dev. | .19 | .00 | .59 | .44 | .46 | .51 | .96 | .40 | 3.16 | .30 | .69 | .42 | |

Daily Surface Water Temperatures (°C) for 1955

Scripps Pier, California 32°51'N, 117°16'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 13.9 | 13.6 | 12.5 | 14.2 | 13.9 | 16.8 | 18.3 | 21.0 | 21.2 | 16.3 | 16.1 | 14.6 | |
| 2 | 13.8 | 12.7 | 13.3 | 16.6 | 14.2 | 17.2 | 18.7 | 20.9 | 21.6 | 17.0 | 16.4 | 14.5 | |
| 3 | 13.2 | 12.8 | 13.2 | 13.7 | 14.3 | 17.3 | 18.8 | 21.4 | 22.6 | 16.2 | 16.6 | 14.4 | |
| 4 | 13.3 | 12.6 | 13.3 | 13.6 | 15.0 | 19.6 | 19.0 | 21.3 | 20.1 | 16.4 | 16.3 | 14.1 | |
| 5 | 13.8 | 12.1 | 13.4 | 13.9 | 15.1 | 18.7 | 19.1 | 22.2 | 21.0 | 17.2 | 16.3 | 14.0 | |
| 6 | 13.7 | 12.1 | 13.4 | 14.4 | 15.3 | 18.6 | 18.0 | 22.2 | 21.5 | 17.1 | 16.6 | 14.1 | |
| 7 | 13.7 | 12.0 | 13.5 | 14.2 | 16.2 | 18.9 | 18.8 | 22.0 | 21.9 | 17.6 | 16.7 | 14.4 | |
| 8 | 14.2 | 12.0 | 13.6 | 14.3 | 16.8 | 18.1 | 18.6 | 22.3 | 22.0 | 17.7 | 16.5 | 14.1 | |
| 9 | 13.9 | 11.9 | 13.8 | 15.2 | 16.3 | 18.1 | 20.2 | 22.8 | 23.0 | 18.7 | 16.2 | 14.2 | |
| 10 | 13.6 | 12.3 | 14.0 | 13.5 | 16.4 | 17.4 | 19.8 | 23.4 | 22.5 | 18.2 | 15.7 | 14.5 | |
| 11 | | 12.9 | 14.2 | 14.9 | 16.4 | 18.7 | 19.7 | 23.7 | 21.9 | 18.1 | 15.5 | 14.0 | |
| 12 | | 14.4 | 14.2 | 14.8 | 16.5 | 18.4 | 19.9 | 22.8 | 21.0 | 18.1 | 15.9 | 14.0 | |
| 13 | 13.7 | 15.0 | 14.3 | 15.2 | 15.4 | 18.4 | 20.1 | 21.5 | 21.6 | 18.0 | 16.0 | 13.8 | |
| 14 | 13.7 | 13.4 | 14.8 | 15.5 | 16.2 | 18.9 | 20.4 | 22.0 | 20.3 | 17.9 | 16.2 | 14.0 | |
| 15 | 13.7 | 13.4 | 14.6 | 14.9 | 15.2 | 18.3 | 20.4 | 22.3 | 16.5 | 18.7 | 15.7 | 13.8 | |
| 16 | 13.7 | 13.6 | 14.2 | 15.5 | 15.3 | 18.4 | 20.7 | 22.8 | 20.0 | 18.0 | 15.6 | 13.8 | |
| 17 | 13.2 | 14.0 | 14.0 | 16.0 | 15.6 | 18.3 | 19.4 | 23.2 | 21.8 | 17.4 | 15.8 | 13.6 | |
| 18 | 13.0 | 14.0 | 14.3 | 14.4 | 16.5 | 17.7 | 20.1 | 23.5 | 20.5 | 17.3 | 15.4 | 13.5 | |
| 19 | 13.0 | 13.3 | 14.3 | 13.0 | 16.4 | 18.6 | 21.2 | 23.6 | 20.8 | 17.4 | 16.4 | 13.2 | |
| 20 | 13.1 | 13.7 | 14.3 | 12.0 | 17.4 | 18.5 | 20.8 | 23.1 | 20.9 | 17.2 | 15.6 | 13.1 | |
| 21 | 12.8 | 12.4 | 14.2 | 12.3 | 16.4 | 18.5 | 20.2 | 22.0 | 21.2 | 17.2 | 15.4 | 13.1 | |
| 22 | 12.8 | | 14.3 | 13.0 | 17.7 | 19.2 | 20.5 | 21.2 | 20.6 | 17.2 | 14.9 | 12.8 | |
| 23 | 12.7 | 12.3 | 14.3 | 14.3 | 17.4 | 17.3 | 18.3 | 19.9 | 20.3 | 17.3 | 15.0 | 13.0 | |
| 24 | 12.9 | 12.5 | 14.4 | 13.5 | 17.5 | 15.9 | 18.4 | 20.4 | 19.9 | 17.0 | 15.8 | 13.5 | |
| 25 | 13.3 | 12.6 | 14.8 | 14.0 | 17.1 | 17.3 | 19.1 | 19.0 | 20.8 | 17.0 | 15.0 | 14.5 | |
| 26 | 12.9 | 12.6 | 16.1 | 14.0 | 17.2 | 17.5 | 19.4 | 20.0 | 19.6 | 16.7 | 15.4 | 14.3 | |
| 27 | 13.1 | 12.6 | 17.8 | 12.9 | 17.8 | 18.0 | 19.6 | 19.9 | 18.9 | 16.5 | 14.6 | 14.4 | |
| 28 | 12.6 | 13.0 | 15.4 | 12.5 | 18.5 | 18.3 | 19.6 | 17.4 | 18.2 | 16.5 | 14.6 | 13.6 | |
| 29 | 14.2 | | 15.5 | 14.8 | 18.4 | 18.2 | 19.8 | 17.4 | 18.2 | 16.6 | 14.6 | 12.8 | |
| 30 | 13.4 | | 15.3 | 13.2 | 17.8 | 18.1 | 20.0 | 19.4 | 16.9 | 17.7 | 14.6 | 13.2 | |
| 31 | 13.4 | | 15.8 | | 16.8 | | 20.6 | 21.2 | | 16.3 | | 13.3 | |
| Mean | 13.4 | 13.0 | 14.4 | 14.1 | 16.4 | 18.1 | 19.6 | 21.5 | 20.6 | 17.3 | 15.7 | 13.8 | 16.5 |
| Max. | 14.2 | 15.0 | 17.8 | 16.6 | 18.5 | 19.6 | 21.2 | 23.7 | 23.0 | 18.7 | 16.7 | 14.6 | 23.7 |
| Min. | 12.6 | 11.9 | 12.5 | 12.0 | 13.9 | 13.9 | 18.0 | 17.4 | 16.5 | 16.2 | 14.6 | 12.8 | 11.9 |
| Range | 1.6 | 3.1 | 5.3 | 4.6 | 4.6 | 3.8 | 3.2 | 6.3 | 6.5 | 2.6 | 2.1 | 1.8 | |
| Std. Dev. | .44 | .93 | 1.01 | 1.08 | .97 | .75 | .82 | 1.65 | 1.54 | .68 | .65 | .53 | |

Daily Water Temperatures at 5 Meter Depth (°C) for 1955

Scripps Pier, California

32°51'N, 117°16'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1 | 13.9 | | | | | 15.6 | 18.3 | 18.9 | 21.1 | 14.8 | 16.1 | 14.6 |
| 2 | 13.7 | | | | | 16.2 | 18.3 | 17.4 | 18.7 | 15.8 | 16.4 | 14.5 |
| 3 | 13.2 | | | | | 16.4 | 18.8 | 17.5 | 20.7 | 15.2 | 16.5 | 14.4 |
| 4 | 13.3 | | | | | 19.3 | 18.9 | 21.0 | 17.0 | 16.4 | 16.1 | 14.1 |
| 5 | 13.7 | | | | | 18.4 | 18.1 | 18.9 | 17.7 | 17.1 | 16.3 | 14.0 |
| 6 | 13.7 | | | | | 18.4 | 17.8 | 19.2 | 18.4 | 17.1 | 16.4 | 14.1 |
| 7 | 13.7 | | | | | 17.6 | 18.1 | 18.8 | 19.0 | 17.6 | 16.7 | 14.3 |
| 8 | 14.2 | | | | | 17.7 | 18.6 | 19.8 | 17.4 | 17.3 | 16.4 | 14.1 |
| 9 | 13.8 | | | | | 17.8 | 19.9 | 20.6 | 21.3 | 18.4 | 16.1 | 14.2 |
| 10 | 13.6 | | | | | 16.1 | 19.6 | 22.7 | 20.8 | 18.1 | 15.2 | 14.4 |
| 11 | | | | | | 18.2 | 18.5 | 22.6 | 18.6 | 18.0 | 15.3 | 13.9 |
| 12 | | | | | | 18.1 | 19.8 | 20.4 | 19.8 | 18.0 | 15.7 | 13.9 |
| 13 | 13.7 | | | | | 18.0 | 19.7 | 19.0 | 19.9 | 17.9 | 15.9 | 13.8 |
| 14 | 13.7 | | | | | 18.7 | 19.1 | 21.0 | 17.4 | 17.9 | 16.2 | 14.0 |
| 15 | 13.6 | | | | | 17.9 | 18.3 | 20.9 | 15.8 | 18.4 | 15.7 | 13.8 |
| 16 | 13.7 | | | | | 17.6 | 20.4 | 22.6 | 17.1 | 17.7 | 15.6 | 13.8 |
| 17 | | | | | | 18.1 | 19.3 | 20.8 | 20.8 | 17.3 | 15.7 | 13.6 |
| 18 | | | | | | 17.6 | 19.8 | 21.0 | 20.1 | 17.3 | 15.4 | 12.9 |
| 19 | | | | | | 17.0 | 19.4 | 20.6 | 20.6 | 17.2 | 15.8 | 13.2 |
| 20 | | | | | | 17.1 | 14.9 | 19.6 | 20.8 | 16.8 | 15.6 | 13.1 |
| 21 | | | | | | 17.2 | 15.5 | 17.8 | 19.0 | 16.6 | 15.4 | 13.1 |
| 22 | | | | | | 18.1 | 15.6 | 20.8 | 19.9 | 16.9 | 14.9 | 12.8 |
| 23 | | | | | | 16.9 | 14.5 | 16.8 | 20.3 | 16.9 | 15.0 | 12.8 |
| 24 | | | | | | 14.9 | 14.5 | 18.0 | 19.9 | 16.4 | 15.5 | 13.3 |
| 25 | | | | | | 17.2 | 19.0 | 16.8 | 20.3 | 16.8 | 15.0 | 14.4 |
| 26 | | | | | 16.1 | 17.4 | 18.8 | 18.3 | 19.3 | 16.6 | 15.2 | 14.2 |
| 27 | | | | | 16.0 | 17.8 | 17.2 | 15.4 | 18.6 | 16.4 | 14.6 | 14.3 |
| 28 | | | | | 18.3 | 18.3 | 16.7 | 15.7 | 17.7 | 16.5 | 14.5 | 13.5 |
| 29 | | | | | 18.3 | 16.8 | 17.2 | 17.1 | 16.0 | 16.3 | 14.6 | 12.6 |
| 30 | | | | | 17.8 | 18.0 | 20.0 | 18.4 | 16.0 | 16.9 | 14.6 | 13.2 |
| 31 | | | | | 16.4 | | 20.6 | 21.0 | | 16.2 | | 12.9 |
| Mean | 13.7 | | | | 17.1 | 17.5 | 18.2 | 19.3 | 19.0 | 17.0 | 15.6 | 13.7 |
| Max. | 14.2 | | | | 18.3 | 19.3 | 20.6 | 22.7 | 21.3 | 18.4 | 16.7 | 14.6 |
| Min. | 13.2 | | | | 16.0 | 14.9 | 14.5 | 15.4 | 15.8 | 14.8 | 14.5 | 12.6 |
| Range | 1.0 | | | | 2.3 | 4.4 | 6.1 | 7.3 | 5.4 | 3.6 | 2.2 | 2.0 |
| Std. Dev. | .21 | | | | 1.01 | .93 | 1.64 | 1.92 | 1.60 | .85 | .63 | .58 |

Daily Surface Salinities (‰) for 1955

Scripps Pier, California 32°51'N, 117°16'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 33.57 | 33.54 | 33.57 | 33.61 | 33.41 | 33.62 | | 33.69 | | 33.55 | 33.58 | 33.58 | |
| 2 | 33.51 | 33.57 | 33.54 | 33.60 | 33.46 | 33.64 | 33.66 | 33.68 | | 33.56 | 33.56 | 33.61 | |
| 3 | 33.49 | 33.55 | 33.51 | 33.60 | 33.55 | 33.61 | | 33.68 | | 33.54 | 33.60 | 33.51 | |
| 4 | 33.46 | 33.55 | 33.51 | 33.57 | 33.58 | 33.64 | | 33.71 | | 33.55 | 33.58 | 33.54 | |
| 5 | 33.53 | 33.57 | 33.57 | 33.57 | 33.60 | 33.66 | | 33.74 | | 33.63 | 33.55 | 33.56 | |
| 6 | 33.44 | 33.53 | 33.55 | 33.57 | 33.61 | 33.67 | | 33.76 | | 33.60 | 33.91 | 33.53 | |
| 7 | 33.40 | 33.55 | 33.53 | 33.60 | 33.62 | 33.67 | | 33.73 | | 33.62 | 33.60 | 33.53 | |
| 8 | 33.42 | 33.55 | 33.54 | 33.57 | 33.61 | 33.67 | 33.66 | 33.76 | | 33.60 | 33.57 | 33.53 | |
| 9 | 33.42 | 33.57 | 33.53 | 33.60 | 33.62 | 33.66 | 33.66 | 33.73 | | 33.63 | 33.61 | 33.55 | |
| 10 | 33.35 | 33.57 | 33.57 | 33.58 | 33.64 | 33.68 | 33.67 | 33.78 | | 33.68 | 33.58 | 33.59 | |
| 11 | | 33.55 | 33.46 | 33.58 | 33.64 | 33.64 | 33.67 | 33.82 | | 33.71 | 33.53 | 33.58 | |
| 12 | | 33.60 | 33.49 | 33.57 | 33.64 | 33.67 | 33.68 | 33.83 | | 33.71 | 33.58 | 33.56 | |
| 13 | 33.39 | 33.57 | 33.57 | 33.61 | 33.61 | 33.69 | 33.70 | 33.73 | | 33.70 | 33.79 | 33.55 | |
| 14 | 33.46 | 33.57 | 33.55 | 33.61 | 33.58 | 33.66 | 33.69 | 33.78 | | 33.70 | 33.55 | 33.55 | |
| 15 | 33.55 | 33.55 | 33.54 | 33.57 | 33.62 | 33.61 | 33.66 | 33.77 | | 33.71 | 33.57 | 33.72 | |
| 16 | 33.44 | 33.60 | 33.57 | 33.55 | 33.64 | 33.64 | 33.68 | 33.79 | | 33.71 | 33.60 | 33.60 | |
| 17 | 33.50 | 33.50 | 33.53 | 33.57 | 33.60 | 33.66 | 33.65 | 33.80 | 33.69 | 33.67 | 33.58 | 33.65 | |
| 18 | 33.54 | 33.51 | 33.57 | 33.57 | 33.67 | 33.60 | 33.63 | 33.78 | 33.69 | 33.66 | 33.50 | 33.58 | |
| 19 | 33.35 | 33.57 | 33.58 | 33.55 | 33.66 | 33.64 | 33.66 | | 33.77 | 33.66 | 33.53 | 33.59 | |
| 20 | 33.30 | 33.57 | 33.58 | 33.54 | 33.67 | 33.68 | 33.61 | | 33.73 | 33.62 | 33.57 | 33.58 | |
| 21 | 33.44 | 33.57 | 33.57 | 33.57 | 33.64 | 33.68 | 33.63 | | 33.77 | 33.84 | 33.51 | 33.59 | |
| 22 | 33.53 | | 33.58 | 33.53 | 33.66 | 33.69 | 33.62 | | 33.73 | 33.63 | 33.56 | 33.58 | |
| 23 | 33.55 | 33.53 | 33.62 | 33.54 | 33.64 | 33.64 | 33.62 | | 33.75 | 33.65 | 33.59 | 33.56 | |
| 24 | 33.57 | 33.57 | 33.60 | 33.53 | 33.60 | 33.66 | 33.64 | | 33.75 | 33.81 | 33.56 | 33.64 | |
| 25 | 33.58 | 33.57 | 33.60 | 33.55 | 33.66 | 33.59 | 33.66 | | 33.75 | 33.63 | 33.57 | 33.66 | |
| 26 | 33.55 | 33.61 | 33.62 | 33.55 | 33.68 | 33.58 | 33.59 | | 33.72 | 33.74 | 33.79 | 33.67 | |
| 27 | 33.57 | 33.55 | 33.64 | 33.57 | 33.68 | | 33.61 | | 33.69 | 33.58 | 33.72 | 33.65 | |
| 28 | 33.57 | 33.49 | 33.66 | 33.57 | 33.61 | | 33.60 | | 33.64 | 33.84 | 33.68 | 33.66 | |
| 29 | 33.55 | | 33.57 | 33.57 | 33.61 | 33.62 | 33.64 | | 33.65 | 33.70 | 33.64 | 33.61 | |
| 30 | 33.55 | | 33.61 | 33.55 | 33.62 | 33.63 | 33.65 | | 33.60 | 33.68 | 33.58 | 33.66 | |
| 31 | 33.53 | | 33.60 | | 33.64 | | 33.68 | | | 33.70 | | 33.74 | |
| Mean | 33.49 | 33.56 | 33.57 | 33.57 | 33.62 | 33.65 | 33.65 | 33.75 | 33.71 | 33.66 | 33.60 | 33.63 | 33.62 |
| Max. | 33.58 | 33.61 | 33.66 | 33.61 | 33.68 | 33.69 | 33.70 | 33.83 | 33.77 | 33.84 | 33.91 | 33.74 | 33.91 |
| Min. | 33.30 | 33.49 | 33.46 | 33.53 | 33.41 | 33.58 | 33.59 | 33.68 | 33.60 | 33.54 | 33.50 | 33.51 | 33.30 |
| Range | .28 | .12 | .20 | .08 | .27 | .11 | .11 | .15 | .17 | .30 | .41 | .23 | |
| Std. Dev. | .08 | .03 | .04 | .02 | .06 | .03 | .03 | .04 | .05 | .08 | .09 | .06 | |

Daily Salinities at 5 meter Depth (‰) for 1955

Scripps Pier, California 32°51'N, 117°16'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1 | 33.60 | | | | | 33.61 | 33.63 | 33.65 | | 33.51 | 33.70 | 33.44 |
| 2 | 33.54 | | | | | 33.62 | 33.62 | 33.58 | | 33.53 | 33.59 | 33.58 |
| 3 | 33.51 | | | | | 33.58 | | 33.58 | | 33.53 | 33.59 | 33.56 |
| 4 | 33.48 | | | | | 33.64 | | 33.68 | | 33.55 | 33.56 | 33.52 |
| 5 | 33.51 | | | | | 33.64 | 33.62 | 33.64 | | 33.60 | 33.59 | 33.55 |
| 6 | 33.47 | | | | | 33.68 | | 33.68 | | 33.60 | 33.91 | 33.53 |
| 7 | 33.46 | | | | | 33.64 | | 33.64 | | 33.64 | 33.61 | 33.57 |
| 8 | 33.41 | | | | | 33.64 | 33.60 | 33.65 | | 33.57 | 33.55 | 33.52 |
| 9 | 33.46 | | | | | 33.67 | 33.67 | 33.67 | | 33.65 | 33.57 | 33.56 |
| 10 | 33.38 | | | | | 33.67 | 33.65 | 33.75 | | 33.65 | 33.50 | 33.58 |
| 11 | | | | | | 33.61 | 33.63 | 33.75 | | 33.71 | 33.54 | 33.61 |
| 12 | | | | | | 33.67 | | 33.74 | | 33.69 | 33.86 | 33.60 |
| 13 | 33.41 | | | | | 33.67 | 33.66 | 33.71 | | 33.70 | 33.69 | 33.53 |
| 14 | 33.48 | | | | | 33.64 | | 33.78 | | 33.71 | 33.55 | 33.61 |
| 15 | 33.54 | | | | | 33.62 | 33.63 | 33.75 | | 33.69 | 33.58 | 33.54 |
| 16 | 33.49 | | | | | 33.66 | 33.66 | 33.78 | | 33.69 | 33.56 | 33.60 |
| 17 | | | | | | 33.62 | 33.64 | 33.74 | 33.68 | 33.63 | 33.59 | 33.62 |
| 18 | | | | | | 33.60 | 33.64 | 33.75 | 33.69 | 33.68 | 33.53 | 33.56 |
| 19 | | | | | | 33.64 | 33.61 | | 33.71 | 33.87 | 33.53 | 33.56 |
| 20 | | | | | | 33.69 | 33.55 | | 33.74 | 33.57 | 33.54 | 33.60 |
| 21 | | | | | | 33.66 | 33.54 | | 33.62 | 33.92 | 33.54 | 33.50 |
| 22 | | | | | | 33.67 | 33.53 | | 33.70 | 33.60 | 33.53 | 33.53 |
| 23 | | | | | | 33.66 | 33.52 | | 33.73 | 33.61 | 33.53 | 33.57 |
| 24 | | | | | | 33.62 | 33.54 | | 33.74 | 33.77 | 33.56 | 33.58 |
| 25 | | | | | | 33.59 | 33.60 | | 33.73 | 33.66 | 33.58 | 33.65 |
| 26 | | | | | 33.64 | 33.57 | 33.58 | | 33.73 | 33.62 | 33.54 | 33.60 |
| 27 | | | | | 33.64 | 33.56 | 33.60 | | 33.69 | 33.69 | 33.54 | 33.63 |
| 28 | | | | | 33.57 | 33.61 | 33.55 | | 33.62 | 33.82 | 33.78 | 33.61 |
| 29 | | | | | 33.60 | 33.60 | 33.57 | | 33.58 | 33.68 | 33.51 | 33.54 |
| 30 | | | | | 33.58 | | 33.66 | | 33.52 | 33.85 | 33.58 | 33.64 |
| 31 | | | | | 33.61 | | 33.68 | | | 33.58 | | 33.50 |
| Mean | 33.48 | | | | | 33.61 | 33.63 | 33.61 | 33.68 | 33.66 | 33.59 | 33.57 |
| Max. | 33.60 | | | | | 33.64 | 33.69 | 33.68 | 33.78 | 33.74 | 33.91 | 33.65 |
| Min. | 33.38 | | | | | 33.57 | 33.56 | 33.52 | 33.58 | 33.51 | 33.48 | 33.44 |
| Range | .22 | | | | | .07 | .13 | .16 | .20 | .41 | .43 | .21 |
| Std. Dev. | .06 | | | | | .03 | .03 | .05 | .06 | .10 | .10 | .04 |

Daily Surface Water Temperatures (°C) for 1955

Neah Bay, Washington 48°22'N, 124°37'W
(USC&GS)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 8.4 | 7.8 | 6.6 | 7.2 | 8.4 | 8.9 | 11.1 | 12.8 | 10.0 | 9.4 | 10.0 | 7.2 | |
| 2 | 8.4 | 7.2 | 6.1 | 7.2 | 8.9 | 8.9 | 12.8 | 12.8 | 11.6 | 10.0 | 10.0 | 7.2 | |
| 3 | 8.4 | 7.8 | 6.1 | 8.4 | 8.9 | 8.9 | 13.4 | 13.4 | 11.6 | 9.4 | 10.0 | 7.2 | |
| 4 | 7.8 | 7.8 | 6.1 | 7.8 | 8.9 | 9.4 | 12.2 | 13.4 | | 10.0 | 9.4 | 7.2 | |
| 5 | 7.2 | 7.8 | 6.1 | 7.8 | 8.9 | 9.4 | 12.2 | 12.8 | 11.1 | 8.9 | 8.4 | 7.2 | |
| 6 | 8.4 | 7.8 | 6.1 | 8.4 | 8.9 | 9.4 | 11.6 | 12.2 | 11.1 | 8.9 | 9.4 | 7.2 | |
| 7 | 8.4 | 7.8 | 6.1 | 7.8 | 8.9 | 10.0 | 11.6 | 10.6 | 8.9 | 8.9 | 9.4 | 7.2 | |
| 8 | 8.4 | 7.2 | 6.1 | 7.8 | 8.9 | 10.0 | 11.1 | 10.0 | 9.4 | 8.9 | 10.0 | 7.2 | |
| 9 | 7.8 | 7.2 | 6.1 | 7.8 | 8.9 | 10.0 | 10.0 | 9.4 | 10.0 | 10.0 | 10.0 | 7.8 | |
| 10 | 7.8 | 7.2 | 6.6 | 7.8 | 8.9 | 10.6 | 10.0 | 9.4 | 9.4 | 11.1 | 10.0 | 7.8 | |
| 11 | 7.8 | 7.2 | 6.1 | 10.6 | 8.9 | 9.4 | 10.0 | 10.0 | 9.4 | 11.1 | 8.4 | 7.8 | |
| 12 | 7.8 | 7.2 | 6.1 | 8.4 | 8.4 | 10.0 | 10.6 | 9.4 | 8.9 | 11.6 | 7.8 | 6.6 | |
| 13 | 7.8 | 7.2 | 6.1 | 8.4 | 8.9 | 10.0 | 10.6 | 9.4 | 9.4 | 11.6 | 6.1 | 6.6 | |
| 14 | 7.8 | 7.8 | 6.1 | 8.4 | 8.9 | 9.4 | 10.0 | 10.6 | 9.4 | 12.2 | 6.6 | 6.6 | |
| 15 | 7.2 | 7.2 | 6.6 | 8.4 | 9.4 | 8.9 | 10.0 | 10.6 | 9.4 | 10.6 | 6.6 | 6.1 | |
| 16 | 7.2 | 7.2 | 6.6 | 7.8 | 10.0 | 8.4 | 9.4 | 11.6 | 10.0 | 11.1 | 7.8 | 6.1 | |
| 17 | 7.8 | 7.2 | 6.6 | 8.4 | 10.0 | 8.9 | 9.4 | 11.6 | 10.0 | 10.6 | 6.1 | 4.4 | |
| 18 | 7.8 | 7.2 | 6.6 | 8.4 | 10.0 | 9.4 | 10.0 | 10.6 | 10.0 | 10.0 | 6.1 | 3.4 | |
| 19 | 7.8 | 7.2 | 6.6 | 8.4 | 10.0 | 8.9 | 10.6 | 10.6 | 9.4 | 9.4 | 6.1 | 3.9 | |
| 20 | 8.4 | 7.2 | 6.6 | 8.9 | 10.6 | 10.0 | 10.6 | 9.4 | 9.4 | 9.4 | 6.6 | 5.6 | |
| 21 | 7.8 | 7.2 | 6.6 | 8.9 | 10.0 | 10.0 | 11.1 | 9.4 | 10.0 | 9.4 | 6.6 | 5.6 | |
| 22 | 7.8 | 7.2 | 6.6 | 8.9 | 10.0 | 10.0 | 11.1 | 10.0 | 10.0 | 10.0 | 7.2 | 5.6 | |
| 23 | 7.8 | 7.2 | 6.6 | 8.9 | 10.0 | 10.0 | 10.6 | | 9.4 | 10.0 | 6.1 | 6.6 | |
| 24 | 7.8 | 7.2 | 6.6 | 8.4 | 10.0 | 10.0 | 10.0 | 9.4 | 10.0 | 10.0 | 6.6 | 6.6 | |
| 25 | 7.8 | 7.2 | 6.6 | 8.4 | 9.4 | 10.0 | 10.6 | 9.4 | 10.0 | 10.0 | 6.1 | 6.1 | |
| 26 | 7.8 | 6.6 | 6.6 | 8.9 | 9.4 | 10.0 | 9.4 | 9.4 | 9.4 | 10.0 | | 6.1 | |
| 27 | 7.8 | 5.6 | 6.6 | 8.9 | 9.4 | 9.4 | 9.4 | 10.0 | 8.9 | 10.0 | 6.6 | 6.1 | |
| 28 | 7.8 | | 6.6 | 8.4 | 9.4 | 8.9 | 10.0 | 10.0 | 9.4 | 10.6 | 6.6 | 6.1 | |
| 29 | 7.8 | | 7.2 | 8.4 | 9.4 | 8.9 | 10.6 | 10.6 | 9.4 | 10.6 | 7.2 | 6.6 | |
| 30 | 7.8 | | 7.2 | 8.9 | 8.9 | 9.4 | 10.0 | 10.6 | 10.0 | 11.1 | 7.2 | 6.6 | |
| 31 | 7.8 | | 7.2 | | 9.4 | | 10.6 | 10.0 | | 10.6 | | 6.1 | |
| Mean | 7.9 | 7.3 | 6.5 | 8.4 | 9.3 | 9.5 | 10.7 | 10.6 | 9.8 | 10.2 | 7.8 | 6.4 | 8.7 |
| Max. | 8.4 | 7.8 | 7.2 | 10.6 | 10.6 | 10.6 | 13.4 | 13.4 | 11.6 | 12.2 | 10.0 | 7.8 | 13.4 |
| Min. | 7.2 | 5.6 | 6.1 | 7.2 | 8.4 | 8.4 | 9.4 | 9.4 | 8.9 | 8.9 | 6.1 | 3.4 | 3.4 |
| Range | 1.2 | 2.2 | 1.1 | 3.4 | 2.2 | 2.2 | 4.0 | 4.0 | 2.7 | 3.3 | 3.9 | 4.4 | |
| Std. Dev. | .33 | .44 | .34 | .63 | .55 | .53 | .98 | 1.29 | .71 | .85 | 1.51 | 1.03 | |

Daily Surface Salinities (‰) for 1955

Neah Bay, Washington
(USC&GS)

48°22'N, 124°37'W

| <u>Day</u> | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> | |
|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------|
| 1 | 29.3 | 30.8 | 32.0 | 29.3 | 31.4 | 32.1 | 30.6 | 28.6 | 32.0 | 33.2 | 29.9 | 29.7 | |
| 2 | 29.8 | 31.1 | 31.6 | 28.6 | 31.6 | 32.8 | 29.7 | 27.3 | 31.0 | 32.9 | 30.8 | 29.9 | |
| 3 | 30.2 | 30.8 | 31.4 | 29.0 | 31.9 | 32.5 | 30.2 | 28.5 | 31.8 | 32.8 | 30.3 | 30.2 | |
| 4 | 30.2 | 31.4 | 31.6 | 28.9 | 32.1 | 32.3 | 30.6 | 28.8 | | 32.7 | 31.2 | 30.2 | |
| 5 | 30.2 | 30.8 | 31.9 | 29.1 | 31.1 | 32.4 | 31.4 | 29.7 | 32.1 | 32.8 | 29.4 | 30.6 | |
| 6 | 31.0 | 30.6 | 32.0 | 29.1 | 31.6 | 32.1 | 31.4 | 30.6 | 32.1 | 32.4 | 29.4 | 29.7 | |
| 7 | 31.0 | 30.3 | 31.8 | 29.9 | 31.4 | 31.9 | 31.9 | 32.0 | 32.5 | 32.8 | 29.4 | 29.4 | |
| 8 | 31.2 | 29.5 | 32.0 | 31.0 | 31.6 | 32.1 | 32.0 | 32.3 | 32.5 | 32.5 | 30.0 | 28.9 | |
| 9 | 30.8 | 29.8 | 32.0 | 30.6 | 31.6 | 32.4 | 32.4 | 32.5 | 32.0 | 32.7 | 28.9 | 28.8 | |
| 10 | 31.1 | 30.0 | 31.9 | 30.2 | 31.6 | 32.3 | 32.0 | 32.7 | 32.3 | 32.3 | 28.8 | 28.8 | |
| 11 | 30.8 | 30.3 | 31.8 | 30.4 | 31.4 | 32.7 | 32.1 | 32.4 | 32.5 | 32.1 | 29.1 | 29.0 | |
| 12 | 31.5 | 31.1 | 31.5 | 30.0 | 32.1 | 32.7 | 32.4 | 32.3 | 32.0 | 30.4 | 29.8 | 28.9 | |
| 13 | 31.0 | 31.1 | 32.0 | 30.0 | 31.6 | 32.4 | 32.4 | 31.6 | 32.0 | 30.4 | 30.7 | 28.8 | |
| 14 | 30.2 | 30.6 | 32.0 | 28.5 | 31.6 | 32.8 | 32.0 | 31.5 | | 30.8 | 31.4 | 29.0 | |
| 15 | 31.4 | 29.8 | 31.8 | 28.2 | 32.1 | 32.0 | 32.1 | 31.5 | | 30.4 | 32.1 | 29.4 | |
| 16 | 30.3 | 29.5 | 31.8 | 27.7 | 31.5 | 32.4 | 31.9 | 31.4 | | 31.2 | 32.1 | 30.6 | |
| 17 | 30.3 | 29.8 | 31.8 | 29.0 | 32.0 | 32.7 | 32.3 | 31.6 | | 32.0 | 32.3 | 29.5 | |
| 18 | 30.3 | 30.2 | 31.4 | 28.2 | 31.6 | 32.5 | 31.6 | 31.6 | | 31.8 | 31.5 | 30.8 | |
| 19 | 30.3 | 30.3 | 31.5 | 28.4 | 31.4 | 32.0 | 31.8 | 32.1 | | 31.9 | 31.9 | 30.6 | |
| 20 | 29.4 | 30.8 | 31.5 | 28.4 | 31.8 | 32.0 | 31.8 | 32.7 | | 32.4 | 31.8 | 30.4 | |
| 21 | 29.8 | 30.8 | 31.9 | 28.4 | 31.6 | 32.4 | 31.8 | 32.7 | | 32.4 | 31.5 | 30.4 | |
| 22 | 30.2 | 31.1 | 31.9 | 28.5 | 31.8 | 31.6 | 32.3 | 32.9 | | 32.7 | 31.9 | 30.0 | |
| 23 | 29.9 | 31.4 | 31.9 | 27.2 | 31.2 | 31.6 | 32.1 | | | 32.7 | 31.2 | 29.8 | |
| 24 | 29.9 | 31.6 | 31.8 | 28.8 | 31.8 | 31.9 | 32.3 | 32.8 | 32.9 | 32.4 | 31.0 | 29.7 | |
| 25 | 29.9 | 31.4 | 32.0 | 29.0 | 32.5 | 31.1 | 32.0 | 32.5 | 33.0 | 32.5 | 31.4 | 29.5 | |
| 26 | 30.2 | 31.8 | 32.8 | 29.3 | 31.9 | 31.4 | 32.5 | 32.5 | 32.9 | 31.6 | | 28.8 | |
| 27 | 30.3 | 32.0 | 32.4 | 29.7 | 31.8 | 31.8 | 32.4 | 31.4 | 33.6 | 31.4 | 30.2 | 29.5 | |
| 28 | 30.6 | | 32.7 | 30.2 | 32.4 | 32.3 | 32.0 | 32.0 | 33.2 | 30.4 | 30.0 | 29.5 | |
| 29 | 31.2 | | 32.4 | 30.8 | 32.4 | 32.5 | 31.6 | 32.3 | 33.2 | 30.2 | 29.7 | 29.9 | |
| 30 | 31.2 | | 32.4 | 30.8 | 32.0 | 31.6 | 31.4 | 32.3 | 33.4 | 29.7 | 29.7 | 30.3 | |
| 31 | 31.0 | | 31.6 | | 32.3 | | 31.0 | 32.1 | | 29.9 | | 29.9 | |
| Mean | 30.5 | 30.7 | 31.9 | 29.2 | 31.8 | 32.2 | 31.7 | 31.5 | 32.5 | 31.8 | 30.6 | 29.7 | 31.2 |
| Max. | 31.5 | 32.0 | 32.8 | 31.0 | 32.5 | 32.8 | 32.5 | 32.9 | 33.6 | 33.2 | 32.3 | 30.8 | 33.6 |
| Min. | 29.3 | 29.5 | 31.4 | 27.2 | 31.1 | 31.1 | 29.7 | 27.3 | 31.0 | 29.7 | 28.8 | 28.8 | 27.2 |
| Range | 2.2 | 2.5 | 1.4 | 3.8 | 1.4 | 1.7 | 2.8 | 5.6 | 2.6 | 3.5 | 3.5 | 2.0 | |
| Std. Dev. | .58 | .68 | .34 | .96 | .35 | .42 | .71 | 1.44 | .63 | 1.02 | 1.06 | .61 | |

Daily Surface Water Temperatures (°C) for 1955

Crescent City, California 41°45'N, 124°12'W
(USC&GS)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 10.0 | 10.0 | 8.4 | 10.0 | 10.6 | 11.6 | 11.6 | 12.8 | 13.9 | 12.2 | 11.1 | 10.0 | |
| 2 | 9.4 | 9.4 | 8.4 | 10.0 | 10.6 | 11.6 | 11.6 | 13.9 | | | | 8.9 | |
| 3 | 10.0 | 10.0 | 8.4 | | | 11.6 | 11.6 | 12.8 | 13.9 | | 11.1 | | |
| 4 | | 10.0 | | | 10.6 | | | 12.8 | 13.4 | 12.2 | 11.1 | 8.4 | |
| 5 | 9.4 | 10.0 | 8.9 | 10.0 | 11.1 | | 11.6 | 12.2 | | 11.6 | | 8.4 | |
| 6 | 10.6 | | 8.9 | 11.6 | 11.1 | 11.6 | | | 13.4 | 11.6 | 11.1 | | |
| 7 | | 10.0 | 9.4 | 11.1 | | 11.6 | 12.2 | 12.8 | | | 11.1 | 8.4 | |
| 8 | 10.6 | | 10.0 | 11.1 | | | | 12.8 | | 11.6 | | 8.4 | |
| 9 | | 10.0 | 10.0 | 11.1 | 11.1 | | | 12.8 | | | 11.1 | 8.4 | |
| 10 | 10.6 | | | 11.1 | 11.1 | 11.6 | 12.2 | | | 11.6 | | 8.4 | |
| 11 | 10.0 | 10.0 | 10.0 | | 11.1 | 11.6 | 12.2 | | 13.9 | 11.6 | 10.6 | | |
| 12 | | | 10.0 | | | 11.6 | | | 13.9 | | 10.0 | 8.4 | |
| 13 | 10.0 | 10.6 | | | 11.1 | 11.6 | | 12.8 | 13.4 | 11.6 | | | |
| 14 | | 10.6 | 10.0 | 10.6 | | 11.6 | | | | | 9.4 | 8.4 | |
| 15 | 10.0 | 11.1 | 10.0 | 11.1 | 11.1 | | 12.2 | 12.2 | 12.8 | | | | |
| 16 | 10.0 | | 10.0 | | | | | 12.8 | | 11.6 | 9.4 | | |
| 17 | 10.0 | 11.1 | | 11.1 | 11.1 | 11.6 | | 12.8 | 12.2 | 11.6 | | | |
| 18 | | | 10.6 | 11.1 | | 11.6 | 12.2 | 13.4 | 12.8 | 11.6 | 8.9 | 8.4 | |
| 19 | 10.0 | 10.6 | 10.0 | | 11.6 | 11.6 | 12.2 | 13.4 | | 11.6 | | 8.4 | |
| 20 | | 11.1 | | 10.6 | 11.6 | | | 13.9 | 12.8 | | 8.4 | 8.9 | |
| 21 | 9.4 | 11.1 | 10.0 | | 11.6 | 11.6 | 12.2 | 13.9 | 12.8 | 11.6 | 8.4 | | |
| 22 | 10.0 | | | 10.0 | 11.6 | | 12.2 | | | 11.6 | | 8.9 | |
| 23 | | 11.1 | 10.0 | | | 11.6 | | 13.9 | 12.8 | 11.6 | | 8.4 | |
| 24 | 10.0 | | 10.6 | | | | 12.2 | 13.9 | 12.8 | | 8.4 | 8.4 | |
| 25 | | 10.6 | | 10.0 | 11.6 | 11.6 | | 13.9 | | 11.6 | 8.4 | | |
| 26 | 10.0 | 10.6 | | | 11.6 | 11.6 | 12.2 | 13.9 | 12.2 | 11.6 | 8.4 | 8.4 | |
| 27 | 10.0 | | 10.6 | 10.6 | 11.6 | | | | | | 9.4 | 8.4 | |
| 28 | 10.0 | | 10.6 | | 11.6 | 11.6 | 12.2 | 13.9 | 12.2 | 11.6 | | | |
| 29 | | | 10.6 | 10.6 | 11.6 | | 12.2 | 13.9 | | | | | |
| 30 | 10.0 | | 10.0 | 10.6 | | | 12.2 | | 12.2 | 11.6 | 10.0 | | |
| 31 | 10.0 | | | | | | 12.8 | | | | | 7.8 | |
| Mean | 10.0 | 10.4 | 9.8 | 10.7 | 11.2 | 11.6 | 12.1 | 13.2 | 13.1 | 11.7 | 9.8 | 8.5 | 11.0 |
| Max. | 10.6 | 11.1 | 10.6 | 11.6 | 11.6 | | 12.8 | 13.9 | 13.9 | 12.2 | 11.1 | 10.0 | 13.9 |
| Min. | 9.4 | 9.4 | 8.4 | 10.0 | 10.6 | | 11.6 | 12.2 | 12.2 | 11.6 | 8.4 | 7.8 | 7.8 |
| Range | 1.2 | 1.7 | 2.2 | 1.6 | 1.0 | | 1.2 | 1.7 | 1.7 | .6 | 2.7 | 2.2 | |
| Std. Dev. | .32 | .51 | .72 | .50 | .36 | | .30 | .60 | .63 | .18 | 1.10 | .42 | |

Daily Surface Salinities (‰) for 1955

Crescent City, California
(USC&GS)

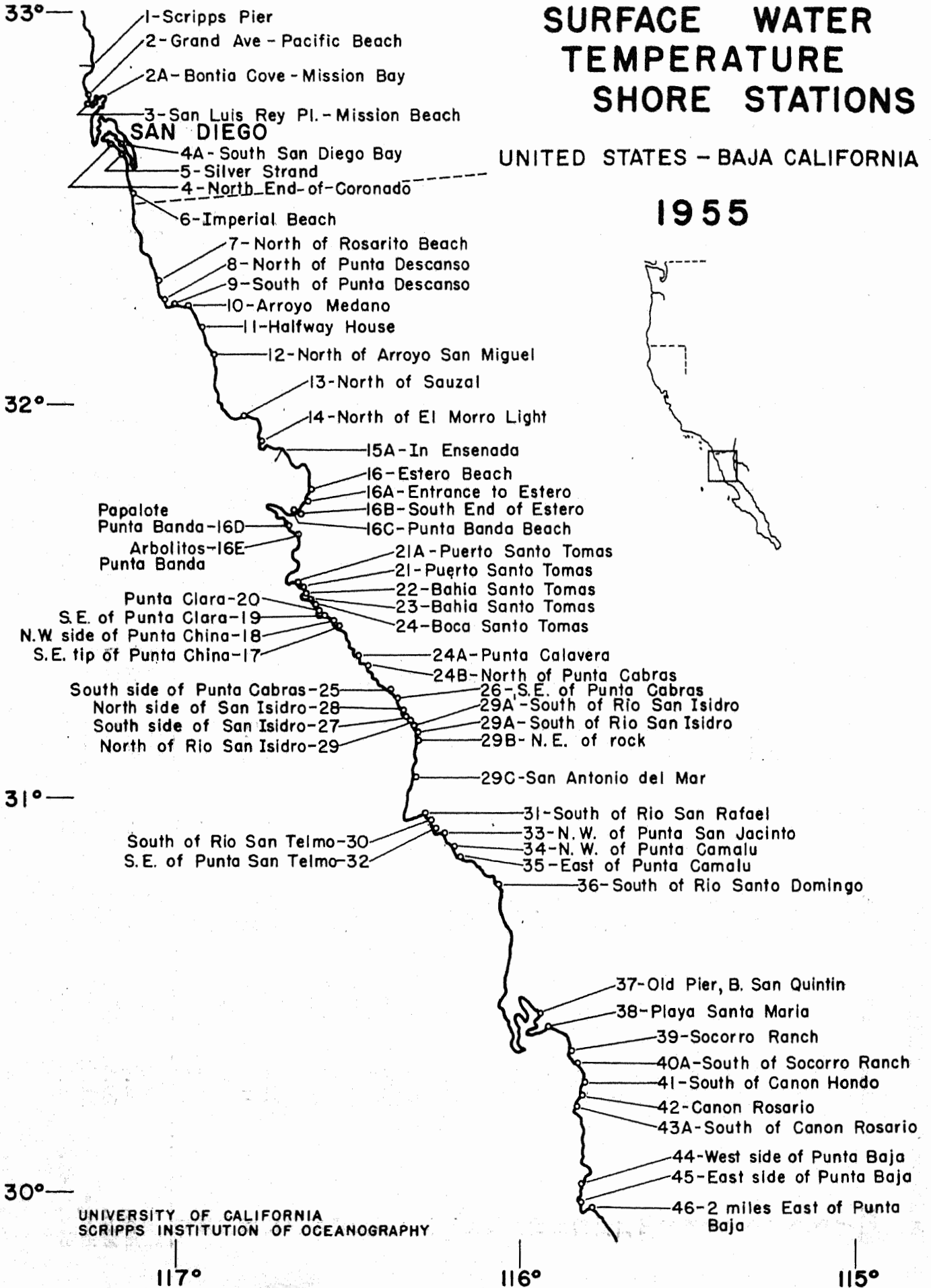
41°45'N, 124°12'W

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
|-----------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1 | 20.8 | 30.8 | 25.9 | 26.7 | 31.8 | 32.7 | 34.2 | 33.4 | 33.2 | 33.0 | 32.8 | 29.8 | |
| 2 | 20.9 | 30.4 | 26.1 | 27.4 | 32.1 | 32.8 | 34.6 | | 32.9 | | | 29.3 | |
| 3 | 32.0 | 30.3 | 26.7 | | | 32.9 | 34.5 | 33.7 | 33.7 | | 33.0 | | |
| 4 | | 30.3 | | | 33.7 | | | 33.4 | 33.3 | | 33.2 | 29.3 | |
| 5 | 30.2 | 30.6 | 28.8 | 28.2 | 34.4 | | 34.7 | 33.3 | | 32.7 | | 29.3 | |
| 6 | 32.4 | | 29.5 | 29.4 | 34.4 | 33.3 | | | | 32.4 | 32.8 | | |
| 7 | | 30.8 | 30.4 | 29.7 | | 33.2 | 34.9 | 33.7 | | | 32.8 | 28.5 | |
| 8 | 32.1 | | 31.8 | 29.7 | | | | 33.7 | | 32.4 | | 28.2 | |
| 9 | | 30.0 | 31.9 | 29.3 | 33.6 | | | 33.7 | | | 33.2 | 27.7 | |
| 10 | 32.4 | | | 29.3 | 33.0 | 33.2 | 34.6 | | | 31.4 | | 27.4 | |
| 11 | 32.7 | 30.6 | 32.1 | | 32.8 | 33.4 | 34.7 | | 34.0 | 31.1 | 32.7 | | |
| 12 | | | 31.4 | | | 33.2 | | | 33.4 | | 32.4 | 27.4 | |
| 13 | 32.7 | 31.2 | | | 32.5 | 32.9 | 34.4 | 33.4 | 33.0 | 30.3 | | | |
| 14 | | 31.2 | 32.1 | 29.9 | | 33.0 | | | | | 32.3 | 27.2 | |
| 15 | 32.1 | 31.5 | 32.4 | 29.7 | 32.8 | | 33.8 | 33.3 | 32.9 | | | | |
| 16 | 32.1 | | 33.2 | | | | | 33.4 | | 30.8 | 32.3 | | |
| 17 | 31.9 | 31.8 | | 29.5 | 33.2 | 33.6 | | 33.2 | 33.0 | 30.6 | | | |
| 18 | | | 33.7 | 29.5 | | 33.4 | 33.6 | 33.3 | 33.6 | 30.6 | 31.9 | 26.5 | |
| 19 | 31.1 | 31.5 | 33.4 | | 33.2 | 34.1 | 33.6 | 33.6 | | 31.8 | | 26.5 | |
| 20 | | 31.8 | | 29.7 | 33.6 | | | 33.6 | 33.7 | | 31.6 | | |
| 21 | 30.4 | 32.0 | 33.7 | | 33.4 | 34.0 | 33.8 | 33.2 | 33.7 | 32.4 | 31.1 | | |
| 22 | 30.3 | | | 29.8 | 33.2 | | 33.8 | | | 32.7 | | 22.4 | |
| 23 | | 32.3 | 31.1 | | | 34.1 | | 33.2 | 33.4 | 32.7 | | 22.4 | |
| 24 | 30.0 | | 28.9 | | | | 33.3 | 33.4 | 33.4 | | 31.1 | 22.1 | |
| 25 | | 31.8 | | 29.3 | 33.2 | 34.2 | | 33.4 | | 32.4 | 31.1 | | |
| 26 | 31.4 | 31.4 | | | | 34.2 | 33.0 | 32.9 | 33.0 | 32.4 | 30.8 | 22.1 | |
| 27 | 31.6 | | 29.4 | 29.9 | 32.9 | | | | | | 29.9 | 21.8 | |
| 28 | 31.6 | | 30.2 | | 33.2 | 34.0 | 33.3 | 33.2 | 33.4 | 32.7 | | | |
| 29 | | | | 31.0 | | | 33.6 | 33.4 | | | | | |
| 30 | 31.4 | | 26.4 | 31.2 | | | 33.6 | | 33.4 | 32.9 | 29.8 | | |
| 31 | 31.1 | | | | | | 33.4 | | | | | 22.6 | |
| Mean | 30.5 | 31.1 | 30.4 | 29.4 | 33.2 | 33.5 | 34.0 | 33.4 | 33.4 | 32.0 | 31.9 | 26.2 | 31.6 |
| Max. | 32.7 | 32.3 | 33.7 | 31.2 | 34.4 | 34.2 | 34.9 | 33.7 | 34.0 | 33.0 | 33.2 | 29.8 | 34.9 |
| Min. | 20.8 | 30.0 | 25.9 | 26.7 | 31.8 | 32.7 | 33.0 | 32.9 | 32.9 | 30.6 | 29.8 | 21.8 | 20.8 |
| Range | 11.9 | 2.3 | 7.8 | 4.5 | 2.6 | 1.5 | 1.9 | .8 | 1.1 | 2.4 | 3.4 | 8.0 | |
| Std. Dev. | 3.24 | .66 | 2.48 | 1.04 | .65 | .51 | .57 | .20 | .32 | .84 | 1.05 | 2.84 | |

LOCATION OF SURFACE WATER TEMPERATURE SHORE STATIONS

UNITED STATES - BAJA CALIFORNIA

1955



SHORE TEMPERATURE DATA BETWEEN LA JOLLA, CALIFORNIA,
AND FUNTA BAJA, BAJA CALIFORNIA.

Under the direction of Carl L. Hubbs, these temperatures were taken each month except February and December by casting or wading.

For each station, the time given in Pacific Standard; the temperature given is degrees centigrade; and the latitude taken from one of the following charts: C.&G.S. 5101, 5107; H.O. 1043, 1044, 1045, 1085 or 1149.

| Station No., General Locality and Latitude | Jan. <u>10-13</u> | Mar. <u>9-12</u> | Apr. <u>6-10</u> | May <u>6-9</u> | June <u>14-17</u> | July <u>7-13</u> | Aug. <u>12-16</u> | Sept. <u>12-15</u> | Oct. <u>22-25</u> | Nov. 29 <u>Dec. 2</u> |
|---|----------------------|---------------------|---------------------|-------------------|----------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|
| 1 - Base of Scripps Pier, 32°52.0' | 0700 12.91 | 0723 13.97 | 0800 14.05 | 0630 15.25 | 0600 19.40 | 1230 20.50 | 0540 22.55 | 0730 21.5 | 0645 16.80 | 0625 14.48 |
| 2 - Grand Ave., Pacific Beach, 32°47.65' | 0740 12.70 | 0809 13.75 | 0825 13.72 | 0700 15.10 | 0710 17.23 | 1445 20.60 | 0600 20.33 | 0915 20.12 | 0715 16.28 | 0705 14.44 |
| 3 - S. Luis Rey Pl., Mission Beach, 32°45.7' | 0820 13.11 | 0822 13.70 | 0840 12.86 | 0715 15.18 | 0730 17.10 | 1505 20.63 | 0620 20.45 | 0930 19.62 | 0730 16.42 | 0720 14.44 |
| 2A- Bonita Cove, Mission Bay, 32°46.3' | 0830 12.29 | 0832 14.30 | 0847 14.74 | 0730 16.38 | 0940 18.37 | 1540 22.21 | 0645 21.75 | 0942 21.68 | 0745 16.52 | 0730 14.39 |
| 4 - N. end of Coronado, 32°41.3' | 1040 12.75 | 0912 13.58 | 0945 13.81 | 0815 15.16 | 0830 15.39 | 1615 20.68 | 0725 19.25 | 1053 18.85 | 0900 15.23 | 0837 14.35 |
| 4A- South San Diego Bay, 32°39.5' | 1100 12.76 | 0923 16.34 | 1000 18.80 | 0830 18.92 | 0900 20.50 | 1632 23.11 | 0745 23.64 | 1105 24.15 | 0910 18.56 | 0854 15.49 |
| 5 - Silver Strand, 32°39.0' | 1110 13.12 | 0927 13.35 | - 13.55 | 0840 15.24 | 0905 16.23 | 1642 20.35 | 0755 18.94 | 1113 18.55 | 0920 15.20 | 0907 14.21 |
| 6 - Imperial Beach, 32°35.1' | 1125 13.25 | 0940 13.46 | 1020 11.92 | 0850 15.42 | 0920 16.38 | 1700 19.56 | 0815 17.13 | 1132 17.74 | 0945 14.50 | 0920 13.91 |
| 7 - N. of Rosarita Beach, 32°20.7' | 1230 13.50 | 1037 13.79 | 1210 13.58 | 1610 14.90 | 1030 17.79 | 1825 17.18 | 0915 16.46 | 1233 16.04 | 1045 15.60 | 1045 14.39 |

| Station No., General Locality and Latitude | Jan. <u>10-13</u> | Mar. <u>9-12</u> | Apr. <u>6-10</u> | May <u>6-9</u> | June <u>14-17</u> | July <u>9-13</u> | Aug. <u>12-16</u> | Sept. <u>12-15</u> | Oct. <u>22-25</u> | Nov. 29 <u>Dec. 2</u> |
|---|----------------------|---------------------|---------------------|-------------------|----------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|
| 8 - N. of Pta. Descanso, 32°16.7' | 1250 13.49 | 1055 13.72 | 1225 13.17 | 1550 15.83 | 1055 17.06 | 1850 17.21 | 0940 17.57 | 1252 15.61 | 1110 15.46 | 1110 14.18 |
| 9 - S. of Pta. Descanso, 32°16.0' | 1305 13.62 | 1102 14.32 | 1235 14.24 | 1535 15.94 | 1110 16.36 | 1905 17.69 | 0955 18.03 | 1305 17.80 | 1120 15.22 | 1115 14.32 |
| 10 - Arroyo Médano, 32°14.4' | 1325 13.60 | 1117 14.35 | 1255 14.41 | 1515 16.55 | 1125 17.12 | 1920 18.17 | 1020 19.82 | 1323 20.00 | 1135 16.42 | 1131 14.48 |
| 11 - Halfway House, 32°10.8' | 1340 13.80 | 1126 14.48 | 1305 14.98 | 1500 16.05 | 1145 17.13 | 1935 18.35 | 1035 19.05 | 1338 19.20 | 1155 16.80 | 1148 14.54 |
| 12 - N. of Arroyo San Miguel, 32°06.0' | 1405 14.33 | 1140 14.63 | 1325 16.15 | 1445 15.12 | 1200 17.87 | 0630 14.13 | 1100 15.57 | 1400 17.55 | 1210 16.13 | 1205 14.39 |
| 13 - North of Sanzal, 31°54.0' | 1455 13.30 | 1225 15.70 | 1405 15.31 | 1350 18.09 | 1330 21.00 | 0755 17.75 | 1215 22.06 | 1437 22.98 | 1330 16.93 | 1255 15.31 |
| 14 - N. of El Morro Lt., 31°52.1' | 1510 13.25 | 1240 15.16 | 1417 15.70 | 1330 17.57 | 3145 20.05 | 0820 18.51 | 1235 22.57 | 1448 21.68 | 1345 16.86 | 1315 14.62 |
| 15A- In Ensenada, 31°51.6' | 1545 13.53 | 1430 15.56 | 1450 16.91 | 1305 18.84 | 1415 23.10 | 0900 20.52 | 1250 25.06 | 1508 23.13 | 1410 18.46 | 1345 16.15 |
| 16 - Estero Beach, 31°46.9' | 1635 13.63 | 1500 16.58 | 1520 17.37 | 1230 18.13 | 1600 19.83 | 0940 20.00 | 1320 23.53 | 1540 22.47 | 1445 17.10 | 1440 15.10 |
| 16A- Entrance to Estero, 31°46.7' | 1615 12.48 | 1515 15.56 | 1527 17.95 | 1220 17.76 | 1555 19.96 | 0955 19.65 | 1330 23.56 | 1550 23.13 | 1435 17.56 | 1430 14.96 |
| 16B- S. End of Estero, 31°42.3' | 1715 11.57 | 1550 20.02 | 1620 21.91 | | 1640 23.04 | 1037 24.70 | 1415 28.12 | 1627 27.95 | 1530 19.56 | 1520 15.70 |
| 16C- Pta. Banda Beach, 31°43.2' | 1745 13.36 | 1615 16.86 | 1642 19.04 | | 1700 22.67 | 1052 21.38 | 1425 24.32 | 1638 25.79 | 1540 18.73 | 1530 14.72 |

| Station No., General Locality and Latitude | Jan. <u>10-13</u> | Mar. <u>9-12</u> | Apr. <u>6-10</u> | May <u>6-9</u> | June <u>14-17</u> | July <u>9-13</u> | Aug. <u>12-16</u> | Sept. <u>12-15</u> | Oct. <u>22-25</u> | Nov. 29 <u>Dec. 2</u> |
|---|----------------------|---------------------|---------------------|-------------------|----------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|
| 16D- Papalote, Pta. Banda, 31°43.4' | 1900 14.00 | 1800 13.72 | 1122 13.26 | | 1800 13.87 | 1250 15.44 | 0650 15.83 | | 1620 13.61 | 1610 12.77 |
| 16E- Arbolitos, Pta. Banda, 31°42.5' | 1955 13.99 | 1645 13.70 | 1200 13.46 | | 1720 12.55 | 1120 15.64 | 1445 16.85 | 1700 16.32 | 1715 13.84 | 1644 12.86 |
| 21A- Puerto Sto. Tomás, 31°33.5' | 1130 14.48 | 0930 13.94 | 1642 12.85 | 1640 15.98 | 1210 15.84 | 0745 12.68 | 1310 17.15 | 0915 16.96 | 0810 12.06 | 0828 12.77 |
| 21 - Puerto Sto. Tomás, 31°33.4' | 1145 14.70 | 0935 14.42 | | 1700 15.92 | 1225 16.19 | 0800 13.69 | 1320 17.12 | 0925 14.61 | 0830 12.2 | 0831 12.97 |
| 22 - Bahía Sto. Tomás, 31°33.0' | 1200 14.12 | 0945 13.55 | 1716 13.26 | 1620 16.12 | 1240 14.78 | 0815 13.89 | 1330 17.60 | 0938 17.15 | 0900 12.70 | 0915 13.00 |
| 23 - Bahía Sto. Tomás, 31°32.4' | 1215 13.95 | 0955 13.35 | 1725 12.85 | 1610 15.72 | 1300 13.56 | 0820 13.80 | 1345 16.26 | 0955 17.12 | 0910 12.42 | 0920 12.91 |
| 24 - Boca Sto. Tomás, 31°32.25' | 1225 14.10 | 1005 13.94 | 1730 12.82 | 1600 15.92 | 1315 14.44 | 0825 13.36 | 1400 18.55 | 1000 17.80 | 0920 12.40 | 0932 12.80 |
| 20 - Punta Clara, 31°31.9' | 1350 14.26 | 0845 13.67 | 1600 13.35 | 1525 15.98 | 1455 16.37 | 0645 13.50 | 1220 15.73 | 1150 18.54 | 1030 13.10 | 1043 12.69 |
| 19 SE. of Pta. Clara, 31°31.6' | 1335 13.96 | 0830 13.84 | 1543 13.61 | 1500 15.43 | 1440 14.70 | 1645 15.70 | 1210 15.64 | 1112 17.04 | 1015 12.81 | 1010 12.80 |
| 18 - NW. side of Pta. China, 31°31.35' | 1305 14.05 | 0820 13.64 | 1525 13.56 | 1430 15.98 | 1415 14.70 | 1630 14.94 | 1150 15.92 | 1108 17.75 | 1000 12.90 | 1005 12.94 |
| 17 - SE. tip of Pta. China, 31°31.3' | 1300 14.34 | 0815 13.78 | 1525 13.14 | 1430 14.65 | 1415 13.20 | 1625 13.33 | 1150 16.16 | 1100 18.05 | 0950 12.42 | 1000 13.03 |
| 24A- Punta Calavera, 31°21.7' | 1645 13.72 | 1340 13.94 | 1000 11.78 | 0800 12.75 | 0840 12.00 | 1140 14.25 | 1900 15.90 | 1440 19.44 | 1420 14.44 | 1325 13.17 |

| <u>Station No., General Locality and Latitude</u> | <u>Jan. 10-13</u> | <u>Mar. 9-12</u> | <u>Apr. 6-10</u> | <u>May 6-9</u> | <u>June 14-17</u> | <u>July 9-13</u> | <u>Aug. 12-16</u> | <u>Sept. 12-15</u> | <u>Oct. 22-25</u> | <u>Nov. 29 Dec. 2</u> |
|---|-----------------------|----------------------|----------------------|--------------------|-----------------------|----------------------|-----------------------|------------------------|-----------------------|---------------------------|
| 24B- N. of Punta Cabras, 31°21.1' | 1705 13.20 | 1450 14.56 | 1115 12.54 | 0820 13.69 | 0900 12.78 | 1300 14.20 | 1915 17.98 | 1500 20.29 | 1435 14.88 | 1345 13.06 |
| 25 - S. side of Pta. Cabras, 31°20.0' | 1725 13.10 | 1513 14.84 | 1140 13.06 | 0840 13.72 | 0925 12.18 | 1320 15.74 | 2000 16.72 | 1525 20.13 | 1515 14.77 | 1417 13.38 |
| 26 - SE. of Pta. Cabras, 31°19.0' | 1740 13.45 | 1527 14.50 | 1245 13.14 | 0950 13.60 | 0950 13.19 | 1345 15.74 | 2025 15.98 | 1540 20.47 | 1535 15.00 | 1435 13.82 |
| 28 - N. side of Pta. San Isidro, 31°17.8' | 1805 13.40 | 1550 14.50 | 1304 14.26 | 1020 14.21 | 1015 14.25 | 1403 15.52 | 0620 16.67 | 1610 19.72 | 1605 14.80 | 1520 13.58 |
| 27 - S. side of Pta. San Isidro, 31°17.8' | 1800 13.30 | 1500 14.55 | 1300 14.00 | 1015 14.15 | 1015 14.08 | 1400 14.28 | 0615 16.86 | 1600 19.84 | 1600 14.28 | 1515 13.61 |
| 29 - N. of Río San Isidro, 31°16.8' | 1845 12.75 | 1600 15.80 | 1316 16.00 | 1040 16.69 | 1030 18.20 | 1415 18.50 | 0640 18.58 | 0635 20.96 | 1640 15.98 | 1535 14.32 |
| 29A ¹ - S. of Río San Isidro, 31°13.8' | 0945 12.85 | 1627 14.60 | 1343 13.81 | 1100 15.75 | 1055 14.27 | 1445 15.03 | 0715 16.41 | 0700 19.29 | 1700 15.73 | 1605 13.76 |
| 29A - S. of Río San Isidro, 31°13.0' | 0840 12.72 | 1632 14.57 | 1353 13.35 | 1120 15.77 | 1105 13.85 | 1450 14.40 | 0735 16.80 | 0710 19.28 | 1715 15.01 | 1632 13.46 |
| 29B- NE. of rock, 31°12.0' | 1025 12.85 | 1650 14.50 | 1450 13.64 | 1230 15.77 | 1125 13.45 | 1630 13.98 | 0820 16.52 | | 0700 14.10 | 1750 13.67 |
| 29C- San Antonio del Mar, 31°05.3' | 1125 13.51 | 0823 14.39 | 1556 14.15 | 1345 15.66 | 1415 15.90 | 1725 15.65 | 0950 18.52 | 1030 20.94 | 0815 13.98 | 0831 12.89 |
| 31 - S. of Río San Rafael, 30°57.8' | 1250 13.52 | 1015 15.31 | 1710 13.81 | 1525 16.44 | 1520 15.98 | 1835 14.58 | 1130 19.55 | 1125 20.21 | 0915 13.69 | 0925 12.52 |

| Station No., General Locality and Latitude | Jan. 10-13 | Mar. 9-12 | Apr. 6-10 | May 6-9 | June 14-17 | July 9-13 | Aug. 12-16 | Sept. 12-15 | Oct. 22-25 | Nov. 29 Dec. 2 |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|-------------------|
| 30 - S. of Río San Telmo, 30°56.1' | 1315 13.29 | 0955 15.40 | 1725 15.69 | 1545 15.40 | 1535 19.03 | 1855 16.51 | 1215 22.15 | 1155 21.16 | 0945 15.18 | 0940 12.80 |
| 32 - SE. of Pta. San Telmo, 30°54.9' | 1330 13.17 | 0925 15.71 | 1750 16.2 | 1605 16.57 | 1555 19.93 | 0730 15.73 | 1240 22.66 | 1212 22.20 | 1030 15.69 | 1000 13.03 |
| 33 - NW. of Pta. San Jacinto, 30°52.6' | 1400 13.70 | 0910 15.42 | 1805 16.9 | 1630 17.68 | 1615 16.89 | 0745 17.15 | 1330 23.43 | 1233 23.65 | 1100 16.93 | 1022 13.11 |
| 34 - NW. of Pta. Camalú, 30°49.7' | 1500 14.02 | 0835 14.36 | 1835 14.9 | 1700 15.98 | 1655 16.32 | 0820 13.07 | 1400 15.80 | 1305 23.23 | 1145 14.09 | 1050 13.29 |
| 35 - E. of Pta. Camalú, 30°49.1' | 1440 13.80 | 0815 15.16 | 0830 13.7 | 1730 16.23 | 1705 18.97 | 0835 14.67 | 1430 20.75 | 1320 23.53 | 1245 15.67 | 1104 13.03 |
| 36 - S. of Río Santo Domingo, 30°42.5' | 1555 14.11 | 1035 15.17 | 0908 12.9 | 0600 15.04 | 0800 14.70 | 0925 16.20 | 1520 20.50 | 1435 24.11 | 1330 14.31 | 1135 13.35 |
| 37 - Old pier, B. San Quintín, 30°28.4' | 1010 12.12 | 1150 19.03 | 1015 20.6 | 1000 19.00 | 0935 20.00 | 1035 21.79 | 1645 27.61 | 1555 30.4 | 1500 21.37 | 1246 15.38 |
| 38 - Playa Santa María, 30°23.8' | 1235 14.85 | 1234 15.30 | 1100 13.4 | 1400 15.53 | | 1300 15.70 | 0600 15.99 | 1715 22.14 | 1600 13.72 | 1415 13.67 |
| 39 - Socorro Ranch, 30°19.2' | 1425 15.70 | 1415 17.68 | 1215 15.7 | | 1115 15.63 | | 0745 19.42 | 0730 21.47 | 0700 13.56 | 1510 13.72 |
| 40A--S. of Socorro Ranch, 30°16.2' | 1445 15.59 | 1444 17.12 | 1350 16.0 | | 1210 17.75 | | 0830 21.00 | 0750 21.40 | 0730 14.05 | 1540 13.44 |
| 41 - S. of Cañon Hondo, 30°12.2' | 1530 15.20 | 1530 16.49 | 1400 14.7 | | 1405 14.98 | | 0910 18.86 | 0835 20.99 | 0820 13.56 | 1610 13.47 |
| 42 - Cañon Rosario, 30°09.8' | 1600 15.19 | 1634 16.07 | 1425 14.8 | | 1515 15.47 | | 0935 19.95 | 0905 20.81 | 0850 14.10 | 1634 13.44 |

| Station No., General Locality and latitude | Jan. <u>10-13</u> | Mar. <u>9-12</u> | Apr. <u>6-10</u> | May <u>6-9</u> | June <u>14-17</u> | July <u>9-13</u> | Aug. <u>12-16</u> | Sept. <u>12-15</u> | Oct. <u>22-25</u> | Nov. 29 <u>Dec. 2</u> |
|---|----------------------|---------------------|---------------------|-------------------|----------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|
| 43A - S. of Cañon Rosario, 30°07.8' | 1625 14.96 | 1610 16.23 | 1455 14.1 | | 1500 15.80 | | 0955 18.92 | 0920 21.06 | 0920 14.00 | |
| 44 - W. side of Pta. Baja, 29°57.15' | 2015 14.10 | 1900 15.22 | 1730 14.1 | | 1745 15.15 | | 1330 19.53 | 1205 20.66 | 1245 14.24 | 0243 12.86 |
| 45 - E. side of Pta. Baja, 29°57.15' | 1950 13.90 | 1905 14.19 | 1740 11.6 | | 1750 12.06 | | 1320 14.58 | 1150 20.64 | 1240 11.72 | 0225 12.55 |
| 46 - 2 miles E. of Pta. Baja, 29°57.3' | 1920 14.45 | 1930 16.12 | 1800 14.8 | | 1820 15.95 | | 1230 19.45 | | 1215 16.45 | 0155 12.92 |

Additional data: Sta. 16B, Jan. 10, 2110 hr., 11.35°. Sta. 21A, Jan. 11, 1140 hr., 14.30°. Sta. 29C, Mar. 10, 1810 hr., 14.82°. Sta. 36, May 7, 1910 hr., 15.66°. Sta. 20, July 10, 1700, 15.40°. Sta. 16D, Aug. 12, 2100 hr., 16.43°. Sta. 27, Aug. 13, 2050 hr., 16.13°. Sta. 28, Aug. 13, 2055 hr., 16.01°. Sta. 29B, Oct. 23, 1745 hr., 14.91°. Sta. 39, Oct. 23, 1745 hr., 14.64°.

Station Addresses and Description

West Coast of the United States

| <u>Address</u> | <u>Position where temperature was taken at each station</u> |
|--|--|
| Swiftsure Bank Lightship 27th Avenue W. & Commodore Way Seattle, Washington | Over side of the ship. |
| Columbia River Lightship WAL-604 Relief Lightship WAL-508 Coast Guard Depot Tongue Point Astoria, Oregon | Over side of the ship. |
| Theodore V. Leach, BMI, Oinc Port Orford Lifeboat Station Port Orford, Oregon | USCG Boat Ramp, Nellie's Cove. |
| Blunts Reef Lightship WAL-523 Relief Lightship WAL-504 c/o USCGC AVOYEL Box 1019 Eureka, California | Over side of the ship. |
| J. C. McKenzie Fort Ross Historical Monument Fort Ross, Cazadero, California | Fort Ross Cove, a rocky beach. |
| *Farallon Island Light Station c/o U. S. Coast Guard Depot Yerba Buena Island San Francisco 26, California | South landing, a rocky cove. |
| J. A. Beck Natural Bridges State Park 2531 West Cliff Drive Santa Cruz, California | Near the Natural Bridges from rocky point. At extreme low tide there is very little water. |
| J. R. Willoughby Hopkins Marine Station Pacific Grove, California | Rocky cove in front of Marine Station. |
| J. B. McMillan, Terminal Supervisor Union Oil Wharf Box 33, Port San Luis Avila, California | Pier, Union Oil Co. of California, 3150 feet out in San Luis Bay. |
| ChBosn. W. S. Yeargain Commanding Officer Point Arguello Lifeboat Station U. S. Coast Guard Surf, California | USCG boat pier in sheltered cove. |

| <u>Address</u> | <u>Position where temperature was taken at each station</u> |
|--|--|
| Roy Champagne Gaviota Beach Park Gaviota, California | Gaviota Pier. |
| Capt. Oakley G. Bradley, Harbormaster Santa Barbara, California | Breakwater beyond breaker zone. |
| G. S. Ward 229 West Scott Street Port Hueneme, California | 300 yards inside the breakwater in channelway to harbor from pier on east of entrance channel. |
| *Island Facilities Officer U. S. Naval Air Missile Test Center Santa Cruz Island Point Mugu Port Hueneme, California | Prisoners' Harbor Pier, beyond breaker zone. |
| *Officer in Charge Anacapa Light Station Box A Port Hueneme, California | Rocky cove--no name for cove. |
| Lt. Ray Hutchinson, Lifeguard Santa Monica Pier Santa Monica, California | Santa Monica Pier, beyond breaker zone. |
| *Commander 669th ACW Squadron Santa Rosa Island Port Hueneme, California | Johnson Lee, 669th ACWRON pier, beyond breaker zone. |
| Kenneth S. Norris Marineland of the Pacific Marineland, California | Intake tanks. Temperature read off thermographs. |
| Vern's Bait and Tackle 119 Seventh Street Huntington Beach, California | Huntington Beach Pier in breaker zone. |
| Robert L. Moore Newport Beach Lifeguard Service 2817 Newport Boulevard Newport Beach, California | Balboa Pier, beyond breaker zone. |

| <u>Address</u> | <u>Position where temperature was taken at each station</u> |
|---|---|
| Mr. Proctor Doheny Beach State Park P. O. Box A Dana Point, California | Sandy beach near Life Guard tower. |
| *Paul W. Herklotz Santa Catalina Island Co. Cove Representative Avalon, California | Sandy beach. |
| *Chas. P. Upton, Harbormaster Box 543 Avalon, California | Pleasure pier beyond breaker zone. |
| *Lt. P. L. Filson, Aerological Officer U. S. Naval Air Missile Test Center San Nicolas Island Point Mugu Port Hueneme, California | Northeast side of island from pier, which is located on lee side rock breakwater. |
| J. G. Renaud, Superintendent Parks and Recreation Department City Hall 704 Third Street Box 30 Oceanside, California | Oceanside Pier beyond breaker zone. |
| *Officer in Charge 670th AC&W Sqdn., LBeach NavShpYd San Clemente Island San Pedro, California | Wilson Cove off pier, beyond breaker zone. |
| Scripps Institution of Oceanography Box 109 La Jolla, California | Scripps Pier beyond breaker zone. |

*Island stations