

Harbour Temperatures

These data were collected from the wharf at the Portobello Marine Laboratory, Otago Harbour, Dunedin. They are the mean surface water temperatures, taken at 9 am, for each month from 1953 to 2000.

Due to the shallow nature of Otago Harbour, the water temperature is modified by air temperature. In the winter it is cooler than open ocean and in the summer the harbour is warmer than open ocean.

You should be able to pick our years of el nino, cooler than average water temperatures and years of la nino, warmer than average water temperatures.

The data can be used for time series calculations by the month or by the year.

Seawater Temperatures at Portobello at 9.00am

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
1953	16.10	15.00	13.30	10.60	8.90	7.10	6.10	7.30	9.40	11.00
1954	15.60	15.90	14.80	11.40	10.20	8.40	6.40	7.10	8.90	11.50
1955	15.80	15.20	13.80	12.70	9.60	7.80	6.40	7.70	9.60	12.40
1956	18.20	15.80	13.60	13.10	10.20	8.60	7.20	7.60	9.80	12.10
1957	16.30	17.00	15.70	13.10	9.90	7.20	6.60	7.40	9.80	10.60
1958	14.90	16.10	14.60	10.80	8.30	6.70	5.90	7.30	8.90	12.60
1959	17.30	16.20	14.60	12.60	7.60	5.90	5.90	7.10	9.50	11.00
1960	15.60	15.50	14.10	12.20	9.60	7.90	6.90	7.10	9.50	12.40
1961	15.20	15.70	13.10	11.80	9.50	7.00	6.30	8.00	8.60	12.70
1962	17.20	15.00	15.00	12.20	10.40	8.30	7.10	7.80	9.80	12.60
1963	16.50	16.10	13.60	11.60	9.10	6.90	6.10	6.10	8.50	11.90
1964	14.30	15.40	13.30	11.80	8.80	6.70	6.50	6.50	8.20	11.30
1965	16.60	14.00	13.60	11.90	8.00	6.80	5.70	6.60	9.00	10.40
1966	14.20	16.20	14.80	12.10	9.40	7.00	6.30	7.20	8.90	11.70
1967	15.50	15.50	14.30	11.70	9.00	7.30	6.10	8.00	8.90	12.00
1968	15.90	15.90	15.60	12.10	10.20	8.20	6.20	7.70	8.70	10.30
1969	16.50	15.30	14.20	11.10	9.00	6.40	5.60	7.50	10.70	11.10
1970	16.70	15.80	14.70	12.20	9.20	7.80	7.30	8.00	9.00	11.10
1971	16.90	17.70	15.20	12.90	11.00	9.10	7.70	8.60	9.80	11.30
1972	15.80	15.90	14.90	11.80	9.10	6.60	6.40	7.00	9.50	11.40
1973	15.60	15.60	14.40	11.50	9.30	8.00	7.90	7.90	10.10	11.70
1974	15.90	16.40	14.10	13.20	10.10	7.80	7.60	8.30	10.30	11.80
1975	17.90	16.30	15.50	13.50	9.90	7.70	7.10	8.10	9.70	11.50
1976	15.20	14.40	14.70	13.00	10.00	7.90	6.80	8.50	9.60	10.90
1977	14.70	15.60	15.10	12.30	9.20	7.80	7.70	8.40	8.80	11.20
1978	17.00	17.50	15.50	13.10	9.50	8.00	7.80	8.70	9.90	11.30
1979	15.70	15.90	14.10	12.50	9.90	8.40	7.80	7.90	9.50	11.10
1980	15.80	15.60	13.60	12.50	10.30	8.10	7.90	7.80	9.40	12.00
1981	16.10	14.90	14.70	12.70	10.10	8.60	7.80	8.00	8.60	11.80
1982	15.60	16.40	14.90	12.30	10.10	8.50	7.10	8.10	9.90	10.60
1983	14.60	14.10	13.20	10.90	8.60	7.20	6.60	7.50	8.70	11.78
1984	15.00	15.90	15.20	13.00	9.20	7.80	7.60	7.90	10.00	11.10
1985	17.20	16.80	15.20	12.80	10.30	8.80	7.90	8.00	10.10	12.00
1986	17.50	17.00	14.70	13.00	#NULL!	7.60	6.80	7.50	9.50	12.00
1987	17.00	15.80	14.50	12.10	9.80	8.20	7.40	8.50	9.30	11.30
1988	15.40	15.30	13.70	11.20	8.40	7.00	6.80	7.50	10.00	11.70
1989	17.60	15.80	14.50	12.20	10.10	7.50	7.20	8.80	10.30	12.20
1990	16.50	17.50	15.20	11.70	9.80	8.20	7.40	8.10	9.50	11.20
1991	15.40	15.10	14.50	11.70	9.90	7.30	6.50	7.40	9.90	10.80
1992	16.50	15.00	12.50	10.80	8.30	6.90	6.20	6.70	8.10	10.70
1993	14.79	14.37	13.46	11.30	9.55	8.05	7.23	7.72	8.82	11.55
1994	16.23	16.85	14.00	12.26	9.64	7.63	6.59	8.15	8.78	10.62
1995	16.37	16.86	14.62	12.80	10.29	8.22	5.86	7.07	9.25	10.94
1996	16.34	16.45	14.67	12.97	10.29	7.70	7.19	7.81	10.08	11.89
1997	15.44	16.09	14.03	11.96	10.24	8.74	7.40	7.91	9.32	11.79
1998	15.07	16.22	15.44	12.55	10.75	8.34	7.99	7.98	9.97	11.87
1999	17.63	17.46	17.77	12.95	11.14	9.03	8.15	8.46	10.06	12.25
2000	15.67	15.30	14.69	12.46	10.29	8.63	8.65	8.65	9.92	11.75

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NOVEMBER DECEMBER

13.40	14.70
13.60	14.20
14.10	15.90
14.10	15.40
12.30	13.00
15.20	15.90
13.10	13.90
13.90	15.00
13.80	16.20
14.40	15.90
11.60	14.10
12.10	14.80
12.60	14.90
12.70	14.10
12.10	15.00
12.30	14.70
14.70	15.90
14.20	15.30
13.60	15.80
14.40	13.60
13.30	16.20
14.50	17.20
12.80	13.80
12.00	14.60
12.30	14.80
13.40	15.30
14.30	16.20
12.30	14.90
13.50	15.90
13.00	14.00
13.70	14.40
14.10	15.40
12.90	15.60
14.10	1.10
14.10	14.30
13.70	16.30
14.90	14.80
13.40	14.80
12.60	14.40
13.85	14.18
13.02	14.12
13.02	14.88
13.14	14.72
13.11	14.91
12.83	14.18
13.77	14.45
13.72	14.80