

METEOROLOGICAL DATA FOR MIDWAY ISLAND, NORTH PACIFIC OCEAN

A special meteorological station was established on Midway Island, N. lat. 28° 15', W. long. 177° 22', on May 1, 1917.

The instrumental equipment consists of a mercurial barometer, barograph, thermometers, anemometer, single register, and a rain gage, all standard instruments of the Weather Bureau pattern. A single observation is made at 6:30 p. m. daily, mean local time. This observation is cabled to Honolulu and thence to San Francisco, Calif.

Previous to the date above-mentioned observations of pressure and the direction and force of the wind were made at local noon and mailed to the Marine Division of the Weather Bureau in Washington, D. C. Through the cooperation of the chief of that division, Mr. F. G. Tingley, these earlier observations of pressure have been combined with the later ones, thus forming the series of 13 years of continuous observations presented in Table 1. Data for the other elements are confined to the period May, 1917, to December 31, 1924.—A. J. H.

TABLE 1.—Meteorological data for Midway Island, North Pacific Ocean<sup>1</sup>

Year	MONTHLY MEAN PRESSURE (INCHES)												Annual
	January	February	March	April	May	June	July	August	September	October	November	December	
1912	30.87	30.04	30.18	30.24	30.14	30.08	30.03	30.01	30.00	30.00	30.07	30.07	30.061
1913	30.94	30.06	30.08	30.05	30.05	30.08	30.11	29.97	30.01	29.92	30.07	30.07	30.033
1914	30.15	29.99	30.19	30.17	30.22	30.13	30.09	30.06	29.97	30.03	30.09	30.10	30.089
1915	30.15	30.03	30.03	30.18	30.02	30.08	30.01	29.99	29.92	29.97	30.18	30.07	30.067
1916	29.81	29.85	29.99	30.13	30.11	30.05	30.07	30.07	29.96	30.00	30.06	29.89	29.999
1917	29.90	29.85	29.96	29.95	30.03	30.17	30.17	30.16	30.14	30.03	30.13	29.85	30.041
1918	29.94	30.05	30.08	30.18	30.11	30.07	30.06	30.05	29.97	30.04	30.14	30.069	
1919	29.94	30.16	30.09	30.05	30.15	29.96	30.14	30.11	30.02	29.98	30.06	30.01	30.068
1920	29.94	29.96	30.15	30.12	29.94	30.01	30.11	30.09	30.07	29.99	30.15	29.97	30.040
1921	30.14	29.96	30.07	30.13	29.98	30.10	30.12	30.06	30.02	29.98	30.07	30.04	30.051
1922	30.03	30.03	30.03	30.22	30.11	30.03	30.05	30.04	30.02	30.07	30.05	29.89	30.048
1923	30.02	29.94	30.09	30.11	29.97	30.02	30.01	30.05	29.94	30.10	30.05	30.20	30.042
1924	30.00	30.07	30.05	30.11	30.08	30.02	30.19	30.11	30.04	30.08	30.06	29.90	30.059
Means	30.001	29.996	30.084	30.128	30.075	30.064	30.089	30.059	30.006	30.015	30.091	30.017	30.052

<sup>1</sup> Prior to May 1, 1917, observations were taken at local noon. Commencing on date named the hour of observation was changed to 6.30 p. m. A correction of -0.04 inch, for diurnal variation, has been applied to monthly means prior to that date, the correction having been determined from the barograph record. All readings corrected for gravity.

MONTHLY MEAN TEMPERATURE (° F)

[Based on daily means from (max.+min.)÷2]

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1917					70.4	75.7	76.7	78.3	78.2	74.1	71.4	67.6	71.2
1918	66.5	64.6	65.6	66.9	72.5	75.8	78.0	78.0	77.6	73.6	70.5	69.2	71.2
1919	65.5	66.2	63.4	68.1	72.0	75.0	78.3	79.0	75.2	72.6	67.3	65.5	70.4
1920	61.9	62.2	63.7	68.1	72.0	75.0	78.3	79.0	75.2	72.6	67.3	65.5	70.4
1921	66.3	64.6	65.4	68.2	70.5	75.0	77.7	78.6	79.0	75.6	72.6	67.7	71.8
1922	67.6	66.0	68.1	67.4	72.8	75.5	77.7	78.6	79.0	74.4	69.9	67.6	72.1
1923	65.7	64.4	64.8	68.2	71.1	75.4	78.0	78.4	77.4	74.4	69.7	66.0	71.2
1924	65.7	63.6	67.4	66.6	70.4	74.2	78.6	79.6	76.0	75.4	70.2	65.3	71.7
Means	65.4	65.2	65.9	67.6	70.8	75.1	77.6	78.5	78.1	74.4	70.5	67.0	71.4

WIND DIRECTIONS—NUMBER OF OBSERVATIONS (MAY 1917—DECEMBER 1924, INCLUSIVE)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
N	17	10	14	23	15	12	3	6	7	19	19	13	158
NE	38	29	49	90	84	72	111	113	83	114	75	48	903
E	24	14	35	42	26	30	67	85	43	37	31	19	453
SE	19	21	37	22	38	56	35	33	68	17	25	23	393
S	21	13	11	9	19	21	15	8	7	7	11	17	159
SW	43	48	30	5	14	18	8	0	12	14	24	44	280
W	20	21	12	8	19	13	6	2	10	18	19	35	183
NW	34	42	29	10	26	15	3	1	6	19	33	52	270
Calm	1	0	1	7	3	0	0	0	4	3	3	1	23
Total observations	217	198	217	210	248	240	248	248	240	248	240	248	2,802

MONTHLY PRECIPITATION (INCHES)

1917					2.81	3.30	2.66	1.26	1.32	7.46	0.54	5.60	
1918	8.19	3.63	3.28	0.46	0.97	0.35	2.84	5.64	7.43	10.01	0.70	1.54	45.04
1919	0.76	2.30	5.42	3.40	0.53	3.87	1.57	0.04	5.44	12.83	0.70	1.52	28.38
1920	1.50	4.20	6.81	6.07	3.87	6.53	0.91	2.94	4.79	12.41	2.56	5.36	37.95
1921	1.27	6.05	2.84	5.11	6.43	0.54	8.22	2.76	3.65	5.50	1.61	2.65	46.63
1922	2.30	4.61	3.71	0.36	2.46	2.33	4.56	4.70	5.25	3.69	5.12	6.03	45.12
1923	1.12	3.99	3.52	0.96	12.59	2.86	4.33	4.14	7.41	0.85	1.72	0.46	43.95
1924	8.63	1.31	2.58	1.52	0.86	5.06	1.17	5.10	3.92	3.47	0.43	6.24	40.33
Means	3.40	3.73	4.02	2.55	3.82	3.10	3.28	3.32	4.90	5.78	1.67	3.68	43.25

MEAN MONTHLY WIND VELOCITY (m. p. h.)<sup>2</sup>

1917					11.9	22.3	25.5	15.1	13.6	27.0	15.7	20.2	18.9
1918	16.5	20.0	23.2	19.5	15.3	11.3	13.4	16.4	15.8	18.3	21.9	16.7	17.4
1919	11.0	12.6	14.7	8.9	9.4	8.1	13.7	8.5	13.5	13.3	12.6	16.8	11.9
1920	16.5	18.0	12.1	11.7	12.3	9.3	11.7	10.5	10.8	10.1	13.2	17.5	12.8
1921	15.9	18.9	14.8	16.9	10.8	8.8	16.6	12.1	15.4	17.5	13.0	17.8	14.9
1922	15.5	20.0	16.7	15.4	13.4	12.2	13.1	11.8	9.0	14.7	17.5	19.0	14.9
1923	17.0	19.0	14.6	11.3	10.4	8.9	8.2	9.2	12.4	12.6	15.9	13.0	12.7
1924	14.0	14.1	12.8	14.5	10.5	8.8	12.8	11.3	6.8	15.3	13.5	18.5	12.7
Means	15.2	17.5	15.6	14.0	11.8	11.2	14.4	11.9	12.2	16.1	15.4	17.4	14.4

<sup>2</sup> Based on one observation daily.

THE DRY SEASON OF 1925 IN THE PANAMA CANAL ZONE

(Extracts from report by H. Z. Kirkpatrick, chief hydrographer, dated Balboa Heights, June 11, 1925)

Meteorologically, the dry season began about January 7 and ended about April 23, but it was preceded and followed by a transition period of several weeks' duration.

Dry season symptoms began to be noticeable by December 6 and continued rainy season conditions began about May 17.

The actual duration of dry conditions was slightly below the average; but from a water-supply standpoint, this season was the fourth driest in the last 14 years.