TABLE 1.—*Monthly and annual amounts and averages of rainfall at Hamilton, Bermuda, 1870–1924*

[Values for 1870–1896 from observations by Mr. Gosling published in the Bermuda Almanack; for 1897–1924 from the Colonial Blue Book, supplemented by investigation of original records at the Prospect Observatory, Bermuda]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1870	5.54	7.00	5.58	3.21	5.20	2.94	1.92	2.23	7.32	1.18	4.21	5.67	52.00
1871	1.50	1.19	3.21	5.20	3.64	3.63	4.57	4.37	4.65	3.86	5.11	6.06	46.99
1872	4.31	4.17	6.61	6.26	1.28	4.96	9.48	8.03	4.64	6.53	4.12	8.02	68.41
1873	6.72	6.96	6.97	4.41	7.21	2.31	4.46	1.95	1.83	2.46	6.32	5.06	56.66
1874	3.51	4.75	6.43	2.25	2.45	3.83	5.68	11.30	5.85	16.50	5.40	3.25	71.20
1875	2.50	2.56	1.78	5.00	6.33	1.88	4.17	1.75	5.69	6.45	2.42	4.30	44.83
1876	1.66	4.47	5.80	3.51	5.59	8.41	2.56	1.52	7.59	7.00	4.14	7.35	59.60
1877	2.97	11.00	6.13	2.45	6.94	7.01	4.73	8.84	4.45	1.33	6.53	3.43	65.81
1878	5.79	7.80	5.81	3.41	4.10	5.47	5.68	9.69	5.98	5.38	5.78	3.36	68.25
1879	4.64	5.55	5.04	3.52	4.89	4.21	8.59	4.67	5.39	2.76	3.58	3.15	56.99
1880	3.44	4.45	3.07	1.57	3.84	3.20	4.19	6.23	2.70	7.97	5.66	5.99	52.31
1881	3.45	2.89	8.05	3.11	3.30	5.80	7.65	4.44	5.45	3.14	2.67	6.67	56.62
1882	3.80	3.07	4.46	2.47	9.13	3.68	6.74	6.04	6.40	5.87	8.61	4.53	64.80
1883	1.39	0.96	5.64	3.21	6.07	3.52	6.37	3.27	2.76	10.74	3.14	5.99	53.06
1884	3.97	3.43	3.34	4.60	2.37	6.53	5.56	8.07	2.98	4.85	11.78	5.29	62.77
1885	3.94	7.65	9.03	5.82	9.70	1.61	3.24	5.29	2.30	9.25	12.48	5.24	75.55
1886	4.56	7.12	5.76	1.36	2.36	1.48	18.62	5.60	3.98	4.47	5.25	3.63	64.19
1887	6.89	1.60	3.19	3.81	9.45	4.67	2.64	5.08	2.65	2.17	6.73	5.50	54.38
1888	5.82	4.24	3.00	2.47	1.07	7.79	7.28	4.74	3.12	5.98	6.37	8.45	60.33
1889	7.40	6.51	4.43	11.09	13.13	2.32	5.76	4.05	4.64	6.99	1.35	3.90	71.57
1890	1.78	4.01	5.09	3.81	7.54	8.42	5.68	2.04	4.15	6.54	5.54	5.10	59.70
1891	4.07	4.73	7.19	5.60	5.81	5.57	3.25	13.75	8.15	9.72	5.04	0.80	73.68
1892	3.92	6.42	5.43	2.51	0.87	3.86	3.91	6.95	3.45	15.32	5.89	2.91	61.44
1893	6.07	1.73	7.90	2.13	5.95	8.62	3.77	4.35	2.56	1.99	4.09	3.76	52.92
1894	5.81	3.29	2.52	2.59	6.05	3.12	3.39	5.03	9.52	9.13	3.05	5.99	59.49
1895	3.52	5.39	5.49	6.07	2.45	6.97	6.67	2.45	7.88	6.40	3.51	5.75	62.55
1896	6.69	4.99	8.32	1.39	2.76	4.43	1.53	5.22	4.85	5.44	3.45	5.14	54.21
1897	4.42	2.21	2.11	5.80	4.15	7.84	4.94	7.97	3.51	6.82	1.19	3.62	54.58
1898	2.81	4.47	0.62	7.10	1.46	6.20	2.71	3.90	3.41	2.05	5.64	1.45	41.82
1899	5.20	2.80	3.56	5.79	4.20	3.40	6.93	5.38	11.09	1.39	6.82	4.76	61.32
1900	6.92	4.93	4.74	1.47	6.94	4.08	2.19	5.25	7.95	4.07	3.60	8.74	60.88
1901	9.44	4.87	7.82	6.45	1.33	1.63	2.08	1.62	1.37	9.85	7.04	2.09	55.59
1902	3.73	7.41	3.73	12.65	2.95	6.80	1.71	16.54	2.05	10.01	3.16	5.69	76.43
1903	3.37	1.79	3.35	4.54	3.88	4.35	2.05	2.96	7.80	6.26	3.87	6.32	50.54
1904	5.91	3.68	3.28	2.39	9.09	5.42	6.28	4.58	1.60	8.10	2.60	2.38	55.31
1905	3.18	3.20	1.74	6.80	6.16	4.92	5.32	6.38	2.52	5.20	5.50	9.64	60.56
1906	6.70	8.52	6.94	3.32	2.32	2.04	1.00	4.46	3.82	11.74	4.96	5.36	61.18
1907	1.48	5.76	1.58	4.82	3.88	4.82	2.24	3.16	3.34	7.02	1.76	5.48	45.34
1908	4.46	5.78	8.98	4.32	2.62	2.64	2.14	1.82	5.68	9.62	4.24	1.36	53.66
1909	5.16	4.26	4.94	2.06	3.82	2.12	7.46	5.82	15.00	7.66	5.22	5.44	68.96
1910	9.42	4.26	3.00	9.30	5.36	0.88	1.18	0.64	6.50	4.92	3.30	4.38	53.14
1911	1.78	1.18	2.40	1.72	2.82	6.14	1.66	7.24	2.94	1.40	7.00	3.28	39.56
1912	6.54	3.66	4.82	3.28	1.70	2.98	11.24	7.76	1.78	2.16	3.24	2.22	51.38
1913	2.20	5.90	3.34	1.94	1.32	2.10	2.22	8.86	1.84	4.22	11.36	3.68	48.98
1914	6.18	10.40	5.20	3.90	5.16	2.08	1.74	4.78	6.58	4.08	1.04	10.46	61.60
1915	2.84	3.52	6.70	2.36	1.82	10.98	4.37	4.79	16.13	1.33	2.90	2.85	60.59
1916	1.68	5.07	5.44	3.20	1.64	2.12	5.45	5.36	6.98	3.08	7.00	2.54	49.56
1917	3.32	2.56	1.92	1.88	4.18	6.08	3.00	4.82	7.94	17.42	3.06	6.84	63.02
1918	3.80	1.34	2.72	8.80	0.80	7.96	4.54	8.14	7.56	2.88	11.44	4.18	64.16
1919	6.56	3.60	2.17	4.64	2.36	2.82	0.84	6.92	5.62	2.51	4.28	6.52	48.84
1920	4.04	6.26	10.05	1.44	8.46	1.45	3.53	3.60	2.23	3.11	3.80	4.55	52.52
1921	5.99	5.54	1.36	2.57	8.07	2.59	1.50	4.75	4.09	5.03	6.27	6.67	54.43
1922	5.95	3.33	1.67	2.92	3.37	10.26	2.95	3.87	6.90	5.81	3.67	3.16	53.86
1923	4.40	3.23	4.71	4.05	5.14	1.62	2.27	2.40	4.40	5.18	5.31	2.52	45.23
1924	3.17	5.61	6.68	3.34	5.19	4.65	7.66	6.14	3.84	4.77	4.01	1.57	56.63
Means	4.48	4.60	4.74	4.10	4.54	4.49	4.53	5.40	5.19	5.95	5.01	4.78	57.80

TABLE 2.—*Average monthly and annual number of days with rainfall of 0.25 inch or more and 0.01 inch or more, Hamilton, Bermuda, 1897–1924*

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
0.25 inch or more [1]	6	5	5	4	4	4	4	6	5	6	5	5	58
0.01 inch or more [2]	16	14	13	11	10	11	12	14	13	14	15	15	158

[1] Means derived by W. H. Potter from the original unpublished records.

[2] From the records of the Prospect Observatory as published in the Blue Books of the colony. This table is given "as the records were made, but it is apparent from the original records that all rainfalls under 0.02 inch were recorded as 'trace' in the earlier years, so the number of 'rainy days' is somewhat less than it should be."

TABLE 3.—*Amounts and averages, by months, of the greatest daily rainfall, Hamilton, Bermuda, 1897–1924*

[From the records of the Prospect Observatory as published in the Blue Books, supplemented by investigation of the original records]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1897	0.82	1.11	0.65	2.46	1.32	2.42	2.20	2.15	0.90	2.50	0.41	1.62	2.50
1898	1.12	1.70	0.48	1.90	0.40	1.15	0.82	1.06	1.08	0.47	1.90	0.40	1.90
1899	1.30	0.72	0.92	1.46	1.15	2.50	3.35	1.10	3.73	0.75	3.54	2.26	3.73
1900	2.30	1.02	0.93	0.46	1.52	1.64	1.01	1.52	2.74	1.50	0.84	2.87	2.87
1901	3.02	1.45	4.80	2.37	0.42	0.44	0.80	0.37	0.22	2.41	1.52	0.67	4.80
1902	1.06	3.28	0.94	10.75	0.80	4.70	0.55	3.08	0.81	3.21	1.77	1.43	10.75
1903	0.65	0.71	1.02	1.50	2.17	1.68	1.02	1.01	4.55	1.70	1.18	1.00	4.55
1904	1.04	0.92	1.14	1.82	3.30	1.56	1.10	1.02	0.54	1.54	0.58	0.84	3.30
1905	0.50	0.70	0.64	3.12	3.90	2.06	1.04	1.20	0.96	1.70	0.72	4.64	4.64
1906	2.48	1.94	1.96	0.96	1.36	1.40	0.48	1.12	1.44	3.16	3.10	1.04	3.16
1907	0.54	1.12	0.62	1.80	1.04	1.52	1.20	0.86	0.78	2.16	0.64	1.38	2.16
1908	1.12	1.44	5.86	1.90	0.94	0.88	0.50	0.56	2.02	2.78	1.58	0.26	5.86
1909	3.16	1.46	0.88	0.86	0.92	0.80	1.74	2.90	6.58	2.90	1.20	0.78	6.58
1910	3.84	1.64	1.34	4.96	3.36	0.30	0.40	0.20	1.96	2.60	0.86	1.36	4.96
1911	0.48	0.30	0.50	0.96	1.48	1.56	0.44	1.94	1.62	0.78	2.44	1.24	2.44
1912	1.56	1.22	1.40	1.32	0.52	0.70	2.76	1.66	0.66	0.84	1.00	0.42	2.76
1913	0.56	1.16	0.86	0.56	0.72	0.66	0.78	2.72	0.76	1.04	3.62	1.08	3.62
1914	1.90	2.72	1.22	1.18	3.06	0.72	0.64	1.64	2.26	1.40	0.34	1.68	3.06
1915	1.00	0.80	1.56	0.88	0.48	2.38	2.89	2.61	6.06	0.42	0.93	0.59	6.06
1916	0.50	1.59	1.19	1.11	0.87	0.79	1.41	2.79	2.14	1.98	1.96	0.72	2.79
1917	1.36	0.74	0.44	0.66	1.20	2.08	1.70	0.76	2.46	5.04	0.80	1.24	5.04
1918	1.14	0.52	1.02	2.42	0.48	1.54	1.70	2.38	3.24	0.62	3.20	2.56	3.24
1919	1.22	0.58	0.44	1.16	1.72	0.82	0.32	1.64	1.36	0.86	0.82	0.98	1.72
1920	0.76	1.44	1.70	0.44	5.09	0.82	1.18	0.97	0.46	1.44	1.30	0.92	5.09
1921	2.50	3.30	1.03	1.16	5.50	0.80	0.70	1.64	0.94	2.04	1.98	1.90	5.50
1922	1.02	0.92	0.36	1.36	2.14	8.00	0.72	1.46	4.91	1.49	0.84	0.76	8.00
1923	1.10	0.98	0.91	1.14	2.29	1.36	0.86	0.72	1.79	2.28	1.00	1.50	2.29
1924	1.30	1.88	1.85	1.20	1.44	2.15	3.12	2.10	1.88	2.74	1.04	0.66	3.12
Means	1.41	1.33	1.31	1.85	1.77	1.69	1.27	1.54	2.10	1.87	1.47	1.31	4.16

NOTES, ABSTRACTS, AND REVIEWS

SOLAR-CONSTANT VALUES

Values of the solar constant were last published in this REVIEW for February, 1923.[1] Doctor Abbot has just issued a report under the title "Provisional Solar-Constant Values, August, 1920, to November, 1924,"[2] which brings the record of daily solar constant values down to the end of November, 1924. Doubtless a copy of the report can be supplied by Doctor Abbot, whose address is Smithsonian Institution, Washington, D. C.—EDITOR.

THE METEOROLOGICAL WORK OF THE "JACQUES-CARTIER"

By E. DELCAMBRE, National Meteorological Office of France

[Translated from *Comptes Rendus*, 179, No. 23, December 8, 1924, pp. 1337–1339, by B. M. Varney, Weather Bureau, Washington]

The Compagnie Générale Transatlantique and the National Meteorological Office of France, in cooperation, have organized and developed continuously since 1921 a special meteorological service on board of the *Jacques-Cartier*, school ship for the regular transatlantic service. The object of this note is to summarize briefly the principal results so far attained.

1. *The extension of the réseau of synoptic observations assembled by radio for purposes of forecasting on land.*—The uninterrupted reception on a continent, of the international observations made four times daily on shipboard during an entire Atlantic crossing, was realized in January 1923 from the *Jacques-Cartier* en route from Le Havre to New Orleans. In the eastern Atlantic, transmission to Brest is direct; in the western Atlantic or in the Pacific, a relay via Washington is necessary.

Still more important is the fact that the *Jacques-Cartier* is the first floating station for the assembling and retransmission to land, of the observations made on other ships. This organization is extremely useful because, first, most ships are equipped only with wireless sending apparatus which is too weak to permit of reaching the mainland unless the vessel is fairly close to the coast, second, the necessities of commercial traffic are usually incompatible with the difficulties and the loss of time

[1] Values of the solar constant, 1920–1922, by C. G. Abbot and colleagues. MO. WEA. REVIEW 51: 71–81.

[2] Smithsonian Misc. Coll. 77: No. 3.