Rainfall, 4.05 inches; normal, 3.10 inches; rain record days, 12; normal, 16; greatest rainfall in one day, 1.65 inches, on the 11th; total at Luakaha, 9.64 inches; normal, 9.15 inches; total at Kapiolani Park, 2.30 inches; normal, 2.00 inches.

The artesian well level rose during the month from 34.57 to 35.06 feet above mean sea level. January 31, 1902, it stood at 33.95. The average daily mean sea level for the month was 9.71 feet, the assumed annual mean being 10.00 feet above datum. For January, 1902, it was 9.90.

Trade wind days, 15 (5 of north-northeast); normal, 14. Average force of wind during daylight, Beaufort scale, 2.1. Average cloudiness, tenths of sky, 4.5; normal, 4.4.

Approximate percentages of district rainfall as compared with normal: Hilo, 65 per cent; Hamakua, 160 per cent; North Kohala, 70 per cent; Waimea (Hawaii), 170 per cent; Kona, 140 per cent; Kau, 50 per cent; Puna, 50 per cent; Maui, southeast exposures, 100 per cent; north exposure, 200 and over; Oahu, about 100 per cent; Kauai, 55 per cent.

The heaviest rainfall for the month was 20.52 inches; Puuohua (Nahiku, 1660 feet), not heard from; heaviest 24-hour rainfall, 6.94 inches, Nahiku, 850 feet, 13th.

Mean temperature table.

Stations.	Elevation.	Mean max.	Mean min.	Cor. av'ge.
	Feet.	°	°	°
Pepeekeo	100	75.4	66.3	70.1
Waimea	2,730	73.6	53.6	63.0
Kohala	521	75.1	62.9	68.3
Waiakoa	2,700	70.6	53.6	61.5
United States Magnetic Station	50	77.5	61.6	69.0
United States Experimental Station	350	76.3	64.5	69.8
Tantalus	1,725	71.1	59.3	64.5
Hilo	40	80.2	64.0	71.4

Kohala, Bond, dew point, 61°; relative humidity, 77 per cent; United States Magnetic Station, dew point, 61.0°; relative humidity, 75 per cent.

The month was characterized by two principal storms, the rains of the 11th from southeast and the rain of the 27th followed by a northerly gale. The coincidence of these, with corresponding storms in the previous month, is worth noting.

Heavy surf on Hawaii windward coast, 1st to 6th, 9th, and 27th to 31st.

Earthquake noted at Hilo, Waimea, and Kohala on the 3d between 7:20 and 7:25 a. m.

Solar haze and afterglow occasionally remarked.

No lightning noted.

The month of January was stormy throughout the Pacific judging from reports of vessels traveling here; northeasterly storms appeared to have extended even south of the equator.

RECENT PAPERS BEARING ON METEOROLOGY.

W. F. R. PHILLIPS, in charge of Library, etc.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers or other communications bearing on meteorology or cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled; it shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau. Unsigned articles are indicated by a ——.

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Ward, R. DeC. Report of the Chief of the Weather Bureau. [Note.] Pp. 235-236.

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Ward, R. DeC. Winter Aridity Indoors. [Note on article by Mark S. W. Jefferson.] P. 236.

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MacDowall, Alex. Sun-spots and Summer Heat. P. 247.

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