## METEOROLOGICAL DATA FROM ULUL ISLAND, NAMONUITO ATOLL

by John Byron Thomas and Mary Durand Thomas 1

Meteorological observations were conducted on Ulul Island, Namonuito Atoll, Truk District, Trust Territory of the Pacific Islands from November 8, 1973 to September 30, 1974. A record was maintained of maximum and minimum temperatures, maximum and minimum relative humidity, and rainfall. Temperatures and rainfall were recorded daily at 6:00 p.m. Relative humidity was measured twice daily at noon and 6:00 p.m.

The meteorological station was located in a cleared area permitting unobstructed exposure to rain and sun. The maximum and minimum thermometers were housed in a louvered wood structure and the rain gauge was located about four meters distant. Relative humidity, obtained with a sling psychrometer, was measured at the same location. All instruments and their associated gear were supplied by the U.S. Weather Bureau at Moen Island, Truk District.

Informants considered that meteorological conditions during the recorded period were typical for Namonuito Atoll. The data presented in the accompanying table indicate the climate to be uniformly warm and humid. Extreme temperatures ranged from 20.5°C. to 35.0°C. (69°F. to 95°F.); relative humidity from 66% to 100%; and monthly rainfall, from 137.7 mm to 396.5 mm (9.45 in. to 15.61 in.). Generally, the daily low temperature occurred just prior to sunrise and the high during early afternoon. Daily relative humidity varied from a low at about noon to a high at about the time of sunrise. (Because a daily relative humidity measurement was recorded at 6:00 p.m. rather than at sunrise, the extreme high and average high relative humidity percentages were probably somewhat higher than indicated in the table.) With a few exceptions, daily rainfall was in the form of brief, random showers. By extrapolation, the total annual rainfall would have been approximately 3213 mm (126.5 in.).

As is typical for this area of the Pacific, the greatest seasonal climatic variation is reflected in wind velocity and direction rather than in temperature, relative humidity and precipitation patterns. Northeast trade winds prevailed during the winter months. Summer months were characterized by lower velocity variable winds and occasional thunder storms. Accurate wind velocity measurements could not be obtained but the periodic use of a hand-held wind meter at a

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TEMPERATURE, HUMIDITY AND PRECIPITATION SUMMARIES
FOR ULUL ISLAND, NAMONUITO ATOLL
NOVEMBER 8, 1973 — SEPTEMBER 30, 1974

	9195	Pempera	Temperature OC.	ORTIN Matel	% Re	lative	% Relative Humidity	2	P	Precipitation		
Month	Extreme	сеше	Aver	Average	Extreme	eme	Average	ge	Total (mm)	24-hour	Days	Days with
	High	Low	High	Low	High	Low	High	Low	nu lun lun	max. (mm)	None	Trace*
Nov	33.3	22.8	31.9	24.5	96	74	98	80	137.7	29.5	4	2
Dec	33.9	22.2	31.5	24.4	96	70	86	19	240.0	41.7	9	1
Jan	33.3	20.5	31.7	23.4	100	99	85	19	217.4	46.0	6	2
Feb	32.8	22.8	31.4	24.4	96	19	83	78	141.2	29.7	8	2
Mar	33.3	21.7	31.9	24.3	96	74	87	81	396.5	53.8	7	2
Apr	33.9	23.3	31.9	24.4	96	71	87	81	390.4	51.1	3	2
May	35.0	22.8	32.5	24.5	96	70	88	19	295.9	51.1	4	3
Jun	33.9	21.7	31.7	23.9	97	29	88	81	374.9	54.4	5	2
Jul	34.4	22.8	32.8	23.9	97	29	86	77	262.4	51.1	4	2
Aug	33.9	22.8	32.3	24.4	95	29	98	78	198.4	48.5	5	3
Sep	34.4	22.2	32.9	23.4	100	99	88	74	304.5	51.6	9	4
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\*Less than 0.25 mm.

windward beach site indicated that winter winds seldom exceeded approximately twenty knots per hour while summer winds usually ranged between five and ten knots per hour.

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