EAST AFRICAN

METEOROLOGICAL DEPARTMENT

SUMMARY OF METEOROLOGICAL OBSERVATIONS

FOR

1948.

PART IV - ZANZIBAR.

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National Oceanic and Atmospheric Administration

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Rocket Center, West Virginia
September 14, 1999

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Chukwani
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SUMMARY OF METEOROLOGICAL OBSERVATIONS AT CHUKWANI, ZANZIBAR, 1948.

Lat.: 6° 15'S Long.: 39° 13'E Alt.: 61 ft. Standard Time 2h 45m East Reference Number 96.39/03.

Month	Atmospheric Pressure *		Temperature				Vapour Pressure		Saturation Deficit		Relative Humidity		Total Cloud Amt.		Number of occasions at 8.30h of Cloud Amounts					Rainfall				Number of Days of		
			Dry Bulb		Dew Point															Total		Max. Fall			Rain	Thunder.
	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	0	1-3	4-6	7-9	10	mm.	ins.	in 24hrs	Date			
	ins.	ins.	F.	F.	F.	F.	ins.	ins.	ins.	ins.	%	%														
January	29.819	29.728	81.1	87.5	75.8	75.9	.901	.904	.074	.413	84	69	7.9	7.5	0	0	7	18	6	49.5	2.42	1.84	20	6	3	
February	29.849	29.760	81.8	88.0	76.4	77.2	.918	.942	.078	.396	84	70	7.4	6.8	0	0	8	18	3	107.2	4.22	1.65	18	13	8	
March	29.855	29.734	81.6	86.8	77.2	78.5	.942	.986	.048	.302	86	77	8.1	7.8	0	0	6	16	9	[illegible]	6.05	1.46	12	15	19	
April	29.849	29.775	78.9	82.8	76.8	76.9	.930	.933	.068	.198	93	82	8.8	8.8	0	0	3	17	10	356.4	14.03	2.85	21	23	21	
May	29.905	29.834	78.6	82.8	76.0	75.3	.907	.886	.079	.248	92	78	8.1	7.6	0	0	9	9	13	274.1	10.79	3.66	25	20	6	
June	29.997	29.929	76.4	81.6	72.6	72.4	.809	.803	.109	.287	88	74	6.9	7.4	0	2	12	10	6	100.8	3.97	1.72	21	12	0	
July	30.002	29.929	75.0	80.4	71.5	70.5	.780	.753	.097	.295	89	72	6.8	7.5	0	1	11	16	3	48.8	1.92	0.57	25	8	0	
August	30.000	29.926	75.0	80.4	71.1	70.3	.771	.750	.106	.298	88	71	8.0	6.9	0	0	4	23	4	78.5	3.09	1.20	7	15	0	
September	29.973	29.875	76.6	83.2	71.7	70.3	.786	.747	.138	.402	85	65	6.6	5.9	0	2	10	17	1	10.7	0.42	0.20	24	4	0	
October	29.929	29.831	79.4	84.5	74.4	75.0	.859	.877	.154	.319	85	72	7.8	6.5	0	0	4	23	4	91.4	3.60	1.06	30	14	4	
November	29.887	29.799	81.3	85.9	76.6	77.3	.924	.948	.154	.266	86	78	7.2	7.6	0	0	7	23	0	181.4	7.14	2.12	15	17	11	
December	29.824	29.737	80.4	84.9	76.2	77.4	.913	.948	.135	.263	87	78	8.5	8.3	0	0	7	17	7	302.3	11.90	2.55	11	17	16	
Year	29.907	29.821	78.8	84.0	74.7	74.7	.870	.873	.128	.307	87	74	7.7	7.4	0	5	88	197	76	1766.8	69.55	3.66	May 25	164	88	

* At station level: corrected for temperature and to standard gravity.

Month	Frequency of Wind Direction at 8.30h.								Calm	Frequency of Wind Force at 8.30h			Mean Wind Velocity		Extremes of temperature of the Air.										Frequency of Visibility at 8.30h		
	N	NE	E	SE	S	SW	W	NW		1-3	4-7	≥7	h 8.30	h 14.30	Max.	Date	Min.	Date	Mean Max.	Mean Min.	Absolute Max	Absolute Min	Range Max.	Range Min.	Range Mean	Fog	Mist	Good Vis.
													m.p.h.	m.p.h.	F.		F.		F.	F.	F.	F.	F.	F.	F.			
January	22	5	0	0	0	0	1	1	2	28	1	0	6.0	9.6	93.8	19	73.0	22	89.5	75.6	82.5	19.5	7.2	13.9	1	0	30
February	16	3	0	0	0	1	1	2	6	23	0	0	2.9	5.6	96.8	14	74.9	22	90.9	75.9	83.4	20.1	9.4	14.9	0	0	29
March	5	1	0	0	1	6	4	2	12	18	1	0	2.9	4.0	93.9	16	74.0	14	90.3	76.9	83.6	16.9	3.4	13.4	0	0	31
April	0	1	0	0	0	26	0	0	3	24	3	0	6.9	6.0	89.6	5	73.0	9,27	85.2	76.0	80.6	15.0	3.8	9.2	0	0	30
May	0	0	0	0	3	28	0	0	0	23	8	0	10.7	11.0	88.0	5	72.0	19,29	84.9	75.6	80.3	15.2	5.3	9.3	0	0	31
June	0	0	0	0	1	29	0	0	0	19	11	0	11.4	11.9	85.8	19	70.5	22	82.7	74.1	78.4	12.5	6.0	8.6	0	0	30
July	0	0	0	0	1	30	0	0	0	16	15	0	12.3	13.2	85.6	28	70.0	26	81.9	72.7	77.3	12.6	7.1	9.2	0	0	31
August	0	0	0	0	4	27	0	0	0	20	11	0	11.0	14.5	85.3	31	69.0	13	81.8	71.4	76.6	14.5	7.7	10.4	0	0	31
September	0	0	1	4	12	12	0	0	1	21	8	0	10.1	15.0	92.3	22	69.0	19	84.9	71.3	78.1	20.5	7.0	13.6	0	0	30
October	0	0	4	11	7	8	0	0	1	29	1	0	6.3	12.3	92.6	25	69.9	5	87.2	73.4	80.3	19.5	9.3	13.8	0	0	31
November	1	4	0	8	3	1	0	1	12	18	0	0	3.6	6.9	92.2	3	72.8	18	87.5	74.3	80.9	18.4	8.4	13.2	0	0	30
December	6	6	3	1	0	2	0	6	7	20	4	0	5.4	5.1	92.9	8	71.6	28	87.5	75.2	81.3	18.1	4.4	12.3	0	1	30
Year	50	20	8	24	32	170	6	12	34	259	63	0	7.5	9.6	96.8	Feb. 14	69.0	Aug. 13 Sep. 12	86.2	74.4	80.3	20.5	3.4	11.8	1	1	364

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT VICTORIA GARDENS, ZANZIBAR, 1948.

Lat.: 6° 10'S Long.: 39° 11'E Alt.: 18 feet Standard Time 2h 45m East Reference Number 96.39/12.

Month	Atmospheric Pressure @ 8.30 h ins.	Atmospheric Pressure @ 14.30 h ins.	Temperature Dry Bulb 8.30 F.	Temperature Dry Bulb 14.30 F.	Temperature Dew Point 8.30 F.	Temperature Dew Point 14.30 F.	Vapour Pressure 8.30 ins.	Vapour Pressure 14.30 ins.	Saturation Deficit 8.30 ins.	Saturation Deficit 14.30 ins.	Relative Humidity 8.30 %	Relative Humidity 14.30 %	Total Cloud Amt. 8.30	Total Cloud Amt. 14.30	Number of occasions at 8.30h of Cloud Amounts 1-3	4-6	7-9	10	Rainfall Total ins.	Rainfall Max. Fall in 24hrs ins.	Date	Number of Days of Rain	Thun-der
January	-	-	81.2	87.2	75.3	75.0	.886	.877	.189	.428	82	67	6.9	6.1	0	5	5	17	4	61.5	2.82	20	5	1
February	-	-	81.6	87.2	75.7	75.7	.898	.898	.192	.407	82	69	6.1	4.5	0	8	3	16	2	90.2	3.57	1.70	10	10	0
March	-	-	82.3	86.9	76.7	77.3	.930	.945	.186	.346	84	73	7.4	6.4	0	4	6	15	6	111.5	4.39	1.03	2	13	5
April	-	-	79.1	82.8	76.0	76.6	.907	.924	.097	.207	90	82	8.4	7.6	0	1	3	18	8	369.3	14.54	2.89	25	20	5
May	-	-	78.9	83.9	75.3	75.9	.896	.904	.112	.271	89	77	7.2	5.7	0	5	4	14	8	320.5	12.62	3.41	23	17	0
June	-	-	76.7	81.6	72.5	72.4	.806	.803	.121	.287	87	74	6.3	5.6	0	9	1	17	3	95.8	3.77	1.10	21	13	0
July	-	-	75.2	81.1	71.1	70.7	.768	.759	.115	.313	87	71	5.5	5.7	0	11	6	12	2	52.8	2.08	0.55	21	7	0
August	-	-	75.3	81.1	71.4	70.8	.777	.762	.109	.310	88	71	7.0	6.4	0	4	7	16	4	82.3	3.24	1.15	7	16	0
September	-	-	76.7	83.1	71.8	71.2	.786	.771	.141	.372	85	67	6.7	4.9	0	5	7	15	3	16.9	0.63	0.25	3	9	0
October	-	-	78.8	83.2	74.1	74.0	.850	.848	.145	.381	85	74	6.1	5.7	0	7	6	16	2	171.2	6.74	2.27	20	17	0
November	-	-	81.2	84.5	75.7	76.0	.898	.907	.177	.289	83	76	5.6	6.2	0	8	9	14	0	214.4	8.44	2.00	9	20	3
December	-	-	80.6	84.9	75.7	76.4	.898	.918	.158	.296	85	76	7.9	7.6	0	4	3	13	11	344.7	13.57	4.82	11	18	5
Year	-	-	79.0	83.9	74.3	74.3	.857	.860	.145	.319	85	73	6.7	6.0	0	71	59	183	53	1930.7	76.81	4.82	11 Dec.	178	17

@ At station levels corrected for temperature and to standard gravity.

Month	Frequency of Wind Direction at 8.30h. N	NE	E	SE	S	SW	W	NW	Calm	Frequency of Wind Force at 8.30h 1-3	4-7	>7	Mean Wind Velocity 8.30 m.p.h.	14.30 m.p.h.	Extremes of Temperature of the Air. Max. F.	Date	Min. F.	Date	Mean Max. F.	Mean Min. F.	Abs. Max. F.	Abs. Min. F.	Range Mean F.	Range Abs. F.	Frequency of Visibility at 8.30 Fog	Mist	Good Vis.
January	-	-	-	-	-	-	-	-	8	96	2	0	6.9	8.5	92.8	20	72.6	21,22	89.3	76.6	92.9	17.2	9.6	13.7	0	1	30
February	-	-	-	-	-	-	-	-	13	16	0	0	2.9	5.1	92.4	16	73.0	23	89.5	75.8	92.7	17.4	7.2	13.7	0	0	29
March	-	-	-	-	-	-	-	-	20	11	0	0	2.0	3.4	93.6	15	74.4	14	89.3	76.4	92.9	16.4	7.5	12.9	0	0	31
April	-	-	-	-	-	-	-	-	21	9	0	0	1.3	1.8	88.7	15	73.2	9,26	84.9	75.7	90.3	12.5	3.5	9.2	0	2	28
May	-	-	-	-	-	-	-	-	14	17	0	0	3.1	4.5	89.6	6	72.3	29	85.4	75.9	90.7	13.3	3.4	9.5	0	0	31
June	-	-	-	-	-	-	-	-	8	21	1	0	4.5	5.4	86.2	1	70.6	22	83.2	73.8	78.5	13.0	6.7	9.4	0	0	30
July	-	-	-	-	-	-	-	-	6	24	1	0	5.6	7.2	85.4	10	68.6	26	82.8	71.9	77.3	14.4	7.6	10.9	0	0	31
August	-	-	-	-	-	-	-	-	15	16	0	0	2.9	5.4	85.0	9,10	67.4	13	82.8	70.8	76.8	16.0	8.7	12.4	0	0	31
September	-	-	-	-	-	-	-	-	14	15	1	0	3.4	6.3	88.9	20	67.2	1	85.1	70.5	77.8	19.5	8.8	14.7	0	0	30
October	-	-	-	-	-	-	-	-	20	11	0	0	1.8	5.6	88.5	28	68.9	5	85.6	72.5	79.1	17.1	7.8	13.1	0	0	31
November	-	-	-	-	-	-	-	-	12	18	0	0	3.4	4.9	89.6	28	71.7	7	86.5	73.6	80.1	16.5	8.2	12.9	0	0	30
December	-	-	-	-	-	-	-	-	13	15	3	0	4.5	3.8	92.0	22,26	71.8	28	87.3	75.1	81.2	16.9	5.8	12.3	0	3	28
Year	-	-	-	-	-	-	-	-	159	199	8	0	3.5	5.1	93.6	March 15	67.2	Sept. 1	86.0	74.1	80.0	19.5	3.4	11.9	0	6	360

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT WETE, PEMBA, 1946.

Lat.: 5° 04'S Long.: 39° 43'E Alt.: 60 ft. Standard Time 2h 45m East Reference Number 95.39/01.

Month	Atmospheric Pressure @		Temperature				Vapour Pressure		Saturation Deficit		Relative Humidity		Total Cloud Amt.		Number of occasions at 8.30h of Cloud Amounts					Rainfall				Number of Days of		
	h 8.30	h 14.30	Dry Bulb 8.30	Dry Bulb 14.30	Dew Point 8.30	Dew Point 14.30	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	h 8.30	h 14.30	0	1-3	4-6	7-9	10	Total ins.	ins.	Max.Fall in 24hrs ins.	Date	Rain	Thunder.
	ins.	ins.	F.	F.	F.	F.	ins.	ins.	ins.	ins.	%	%														
January	-	-	80.9	-	75.0	-	.877	-	.189	-	83	-	7.9	-	0	1	1	24	5	26.9	1.06	0.94	21	3	1
February	-	-	82.7	-	75.5	-	.892	-	.236	-	79	-	6.8	-	0	0	12	17	0	60.8	3.18	1.25	19	9	0
March	-	-	83.6	-	77.1	-	.939	-	.222	-	81	-	5.6	-	1	6	12	12	0	184.9	7.28	3.24	22	7	3
April	-	-	81.7	-	76.9	-	.933	-	.160	-	85	-	7.1	-	0	2	10	13	5	526.5	20.73	4.59	26	23	5
May	-	-	79.9	-	75.7	-	.898	-	.133	-	87	-	7.7	-	0	4	3	14	10	440.4	17.34	2.48	2	25	3
June	-	-	78.5	-	73.0	-	.821	-	.162	-	83	-	5.4	-	0	9	11	9	1	215.4	8.48	1.04	23	23	0
July	-	-	76.4	-	71.6	-	.783	-	.135	-	85	-	4.9	-	0	7	17	7	0	121.2	4.77	1.40	1	19	0
August	-	-	76.5	-	71.1	-	.768	-	.153	-	83	-	4.7	-	0	5	22	4	0	62.2	2.45	0.39	20	14	0
September	-	-	78.3	-	72.2	-	.797	-	.180	-	82	-	6.2	-	0	5	11	13	1	26.4	1.04	0.27	17	7	0
October	-	-	79.8	-	74.0	-	.848	-	.180	-	83	-	6.8	-	0	0	13	16	2	194.3	7.65	2.37	26	16	0
November	-	-	82.1	-	75.6	-	.895	-	.212	-	81	-	6.3	-	0	3	9	16	0	200.9	7.91	3.04	10	14	0
December	-	-	80.5	-	75.7	-	.898	-	.153	-	85	-	8.0	-	0	1	4	17	9	306.1	12.13	4.83	29	21	3
Year	-	-	80.1	-	74.5	-	.862	-	.176	-	83	-	6.5	-	1	43	125	164	33	2388.0	94.02	4.83	Dec. 29	181	15

@ At station level: corrected for temperature and to standard gravity.

Month	Frequency of Wind Direction at 8.30h.								Calms	Frequency of Wind Force at 8.30h.			Mean Wind Velocity		Extremes of Temperature of the Air.										Frequency of Visibility at 8.30		
	N	NE	E	SE	S	SW	W	NW		1-3	4-7	>7	h 8.30 m.p.h.	h 14.30 m.p.h.	Max. F.	Date	Min. F.	Date	Mean Max. F.	Mean Min. F.	½ Max + Min F.	Range Max. F.	Range Min. F.	Range Mean F.	Fog	Mist	Good Vis.
January	26	0	0	0	0	1	0	3	1	30	0	0	2.9		88.4	16	71.8	22	86.3	74.9	80.6	15.6	1.5	11.4	0	3	28
February	21	0	0	0	0	0	0	6	0	29	0	0	3.8		90.5	16	71.0	2	88.3	74.4	81.3	16.9	9.9	13.9	0	0	29
March	20	0	0	1	1	0	0	7	1	30	0	0	3.6		90.5	15	71.9	9	86.6	75.1	81.9	17.2	8.8	13.5	0	1	30
April	3	0	0	2	14	3	0	0	6	22	0	0	2.5		89.9	2	71.1	25	85.7	73.7	79.7	15.6	4.2	12.0	0	2	28
May	1	0	0	5	15	1	0	0	9	22	0	0	3.4		89.7	6	70.0	19,29	85.0	73.3	79.1	16.5	7.0	11.7	0	14	17
June	0	0	0	1	25	3	0	0	1	29	0	0	2.5	-	86.0	3	66.9	20	83.1	70.6	76.9	15.4	8.5	12.3	0	6	22
July	0	0	0	4	25	2	0	0	0	31	0	0	2.5	-	84.0	20	67.0	30	82.3	68.7	75.5	15.9	10.0	13.6	0	6	25
August	0	0	0	9	20	1	0	0	1	30	0	0	2.5		83.9	26	66.5	2	82.3	68.9	75.6	16.4	6.3	13.5	0	6	25
September	0	0	0	18	6	3	0	0	3	27	0	0	2.7	-	86.5	24	66.6	1	83.6	69.2	76.4	18.6	9.3	14.4	0	0	30
October	0	0	0	29	1	0	0	0	1	30	0	0	2.0		88.0	19	67.2	5	84.9	71.8	78.3	16.7	6.5	13.1	0	2	29
November	5	1	0	6	0	1	0	6	10	20	0	0	1.6	-	88.4	22	70.0	7,19	85.3	72.9	79.6	17.3	6.4	13.3	0	0	30
December	6	0	0	0	0	0	0	6	19	12	0	0	2.2	-	89.3	26	70.0	8	86.0	73.8	79.9	17.5	6.0	12.2	0	5	26
Year	82	1	1	75	107	16	0	30	54	312	0	0	2.7	-	90.5	Feb-16 Mar-1	66.5	Aug-2	85.2	72.3	78.7	18.5	1.5	12.9	0	47	319