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VOLUME 9 NUMBER 3

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PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties as the National Meteorological Service for the U.A.R., the Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publication should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh—CAIRO".

THE DAILY WEATHER REPORT

This report is printed daily in the Meteorological Department. It contains surface and upper air observations carried by the relevant networks of the Republic and made at the four main synoptic hours of observations (00, 06, 12 and 18 U.T) ; as well as ship observations over the Eastern Mediterranean and north Red Sea made at the same times.

It also contains two surface synoptic charts at 00 and 12 U.T. and two upper air charts for the standard isobaric surfaces 700 & 500 mbs. at both 00 and 12 U.T.

In compliance with resolution 8 (EC-XIII) of WMO, foreign upper air data included in Cairo Subregional Broadcast are also given in this report.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviation from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper and agro-meteorological data for U.A.R.

THE AGRO-METEOROLOGICAL ABR DGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

The normals, long averages and statistical data are given in one edition for stations in Egypt from the date of opening of each station up to 1945. A new voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

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METEOROLOGICAL DEPARTMENT
CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS

MARCH 1966

Rather cold, intervened with four khamsin disturbances whose transits were generally sandy and their breakdowns were light rainy in the north. Early morning mist or fog over scattered localities of the Delta & Cairo Areas.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather this month was rather cold, intervened with four Khamsin disturbances, two during the 1st decade and two during the 3rd & 4th weeks respectively. Tansits of Khamsin waves were preceded and associated with occasional rising sand and sandstorms which were widespread in particular round the 3rd, 4th, 18th, 19th, 24th & 25th. The breakdowns of the 2nd & 3rd waves were followed with two rainy intervals (10th - 12th) & (16th - 22nd) respectively during which light rain fell over the northern parts. Rain penetrated south-wards as Beni Suef on the 16th while it was associated with thunderstorms on the 12th. The monthly rain was subnormal in general with the exception of some scattered localities in the Republic where it was abnormal.

Early morning mist or fog developed in rather moderate occasions over few localities of the Delta, Canal & Cairo Areas.

PRESSURE DISTRIBUTION

The prevailing pressure distributions over the surface map this month can be summarized in the following pressure systems.

— The Atlantic Anticyclonic ridge over West Europe and NW Africa.

— The Siberian Anticyclonic ridge over South West Russia.

— The transitory low pressure systems through Mediterranean and adjacent areas from the West to the East.

— Troughs of low pressure over Arabian Gulf, Sudan and Great African Sahara.

The prevailing pressure distribution over the 700 & 500 mb charts were confined in the following upper systems.

1. Two deep upper low pressure systems one over North Urasia and the other over North Atlantic.
2. Minor transitory upper lows over middle latitudes.
3. The quasi stationary upper high pressure belt over the subtropical latitudes.

During this month three travelling secondary upper lows developed over the middle latitudes. The first upper low has been formed over Central Mediterranean on the 2nd where it was stationary till the 9th, then moved eastwards and traversed East Mediterranean on the 12th. The second upper low

was observed over the Balkans on the 16th, it moved eastwards and its southern trough passed through East Mediterranean on the 19th. The last secondary upper low was formed south of Spain on the 20th, where it was stationary till the 22nd, then it moved slowly through the Mediterranean and traversed East Mediterranean on the 27th.

Travelling secondary depressions through the Mediterranean this month developed either over Central Mediterranean on the 1st. 6th, 8th, 14th & 17th respectively or developed over West Mediterranean on the 23rd & 28th respectively. The Central Mediterranean secondary depressions proceeded rapidly eastwards and traversed east Mediterranean round the 3rd, 7th, 10th, 16th & 18th respectively.

On the other hand the West Mediterranean secondary depressions proceeded eastwards, attained Central Mediterranean round the 24th & 30th respectively, then continued their eastward motion through Balkans & Asia Minor round the 26th & 31st respectively when the Sudan Low showed marked northward elongations towards the southeast corner of the Mediterranean.

It is worth to mention that the barometric pressure over East Mediterranean in general and U.A.R in particular was changeable and showed large variability (20 mb range) during the month.

The highest wind speed in the upper air at Mersa Matruh, Helwan & Aswan was 175, 150 & 155 Knots on the 25th, (24, 28 & 29th) & 21st respectively.

SURFACE WIND

The prevailing surface winds were light/moderate N/NW in general, occasionally fresh/strong in association with and after the break down of the transitory Khamsin disturbances. Calms were frequent most night and early morning intervals in scattered localities.

Gales were reported at : Sallum, El Kasr & Ras El Hikma on the 18th; Mersa Matruh on the 18th & 19th; Port Said & Ghazza on the 19th ; Kabrit on the 3rd, 12th & 19th ; Almaza on the 18th & 19th; Siwa on the 18th ; Tor on the 28th and at Hurghada on the 11th, 22nd, 27th, & 28th.

TEMPERATURE

Maximum temperature was changeable. It was generally subnormal and its values ranged between 15°C & 20°C in the northern parts, between 18°C & 27°C in the middle parts and between 21°C & 31°C in the southern parts of the Republic. As an exception maximum temperature was abnormally high during the prevailing Khamsin disturbances and its values ranged between 20°C & 30°C in the northern parts and between 24°C & 34°C in the middle parts and between 29°C & 39°C in the southern parts.

The absolute maximum temperature for the Republic was 40.2°C reported at Dakhla on the 26th.

Minimum temperature was similarly changeable and generally subnormal and its values ranged between 5°C & 10°C in th northern parts, between 5°C & 13°C in the middle and southern parts of the Republic. As an exception it was abnormally high during Khamsin disturbances and its values ranged between 11°C & 16°C in the northern parts and between 14°C & 18°C in th middle & southern parts of the Republic.

The absolute minimum temperature for the Republic was 2.1°C reported at Shebin El Kom on the 23rd.

PRECIPITATION

This month was characterized with the two rainy periods (10th - 12th) & (16th - 22nd) during which rain was light and confined to the northern parts (north 30°N latitude). As an exception, on the 16th rain penetrated inland southwards as for as Beni Suef and on the 12th rain was associated with thunderstorms.

The monthly rain was subnormal in general though it exceeded its normal in scattered localities of the Republic.

The absolute monthly rainfall was 18.5mms reported at El Arish, while the maximum daily rainfall was 9.0 mms reported also at El Arish on the 22nd.

Cairo, 30/ 12 / 1970

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

TABLE A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.

MARCH 1966

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evap. (mms) Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	A+B / 2	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
Sallum	1015.3	+0.3	21.2	−0.2	11.2	+0.1	16.2	16.0	−0.4	11.1	−0.7	51	− 4	—	—	—	10.2
Mersa Matruh . (A)	1016.2	+0.6	20.4	−0.1	9.9	−0.1	15.2	14.8	−0.2	11.1	−0.3	61	− 2	—	—	—	8.5
Alexandria . . (A)	1015.8	+0.2	22.3	+1.1	10.5	−0.7	16.4	15.8	0.0	12.0	−0.2	61	− 5	273.3	371.6	74	7.2
Port Said . . . (A)	1015.7	+0.3	20 4	+0.2	14.8	+1 2	17.6	17.1	+0.7	13.5	+0.2	64	− 4	243.1	371.6	65	6.3
El Arish	1016.3	+1.1	21.9	+0.6	11.0	+0.2	16.4	16.2	0.0	12.9	0.0	66	− 1	—	—	—	5.7
Ghazza	1015.6	+0.6	20.8	+0.7	11.4	−0.2	16.1	16.3	+0.3	12.7	−0.7	63	− 9	260.5	371.8	70	5.3
Tanta	1015.6	+0.1	23.1	−0.6	8.8	+0.5	16.0	16.8	+1.1	12.6	+0.8	59	− 1	264 5	371.8	71	4.5
Cairo (A)	1016.0	+0.7	24.2	+0 3	11.6	+0 2	17.9	17 5	−0.1	11.4	−0.8	43	− 7	—	—	—	13.5
Fayoum	1016.1	+0.5	25.6	+0.3	10.2	+0.2	17.9	17.4	−0.5	11.1	−1.1	44	− 3	—	—	—	7.2
Minya . . . . (A)	1016.3	+0.8	25.7	−0.1	7.7	−0.2	16.7	16 5	−0.1	10.7	−0.4	44	− 4	305.0	372.2	82	7.8
Assyout . . . (A)	1015.4	+0.5	26.2	−0.4	10.8	+0.2	18.5	18.2	−0.4	11.0	0.0	35	+ 3	—	—	—	13.6
Luxor . . . . (A)	1014.4	+1.1	29.2	−0.1	11.1	+0.4	20.2	20.1	0.0	12.1	−0.2	33	− 1	—	—	—	10.2
Aswan . . . . (A)	1013.7	+0.7	30.0	−0.6	11.3	−2.0	20 6	21 3	−0.9	11 2	+0.1	20	+ 5	—	—	—	14 5
Siwa	1015.9	+0.3	24.8	−0.2	9 1	+0.7	17.0	16.9	−0.3	10.1	−0.4	36	− 1	—	—	—	11.7
Bahariya	1016.3	+0.9	25.5	−0.1	9.5	+0.6	17.5	17.6	−0.4	10.3	−0.3	33	− 3	—	—	—	10.2
Farafra	1017.1	+0.5	25 6	−1.0	7.5	−1.4	16.6	16.5	−1.4	9.8	+0.1	36	+ 9	—	—	—	13.4
Dakhla	1015.6	+1.0	27.7	−0.1	6.9	− 2.4	17.3	17.3	−1.0	9.4	−0.2	28	+ 4	—	—	—	10.1
Kharga	1015.1	+0.6	28.2	−0.3	10 6	−0.4	19.4	19.8	−0.5	10.2	−1.1	26	− 3	318.2	372.2	86	15.2
Tor	1014.8	+1.0	24.0	−0 3	12.7	+0.1	18.4	18.8	+1.0	13.2	−0.2	49	− 1	—	—	—	12.0
Hurghada	1014.3	+0.9	24.6	+1.2	12 2	−0.2	18.4	18.9	+0.1	13.1	−0.1	48	− 2	—	—	—	15.6
Quseir	1015.0	+1.5	24.2	−0.6	15 5	−1.0	19.8	20.2	−0 6	14.1	−0.2	47	+ 1	—	—	—	15.4

TABLE A2.— MAXIMUM AND MINIMUM AIR TEMPERATURES

MARCH — 1966

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	29.5	15,24	15.8	18	6	0	0	0	0	10.6	—	16.2	15	7.0	19	14	0	0	0
Mersa Matruh (A)	28.1	15	14.6	19	4	0	0	0	0	—	—	15.6	25	5.7	23	13	0	0	0
Alexandria (A)	31.5	25	16.4	19	5	1	0	0	0	—	—	15.0	26	5.8	23	14	0	0	0
Port Said (A)	27.7	16	15.3	22	3	0	0	0	0	12.6	—	17.4	9	10.7	22	0	0	0	0
El Arish	32.9	10	14.9	22	5	4	0	0	0	9.1	—	16.5	26	6.0	23	9	0	0	0
Ghazza	30.0	3	15.0	22	4	0	0	0	0	11.1	—	16.2	26	6.9	23	9	0	0	0
Tanta	31.6	25	15.4	19	10	2	0	0	0	—	—	14.4	26	3.9	23	23	1	0	0
Cairo (A)	33.2	25	17.6	19	11	2	0	0	0	—	—	15.8	16	6.8	23	5	0	0	0
Fayoum	34.8	26	18.5	19	17	5	0	0	0	6 0	—	15.0	26	5.7	23	13	0	0	0
Minya (A)	36.2	26	18.8	19	18	5	1	0	0	5.2	—	15.2	26	4.3	23	28	2	0	0
Assyout (A)	38.8	26	18.7	20	17	5	1	0	0	10.1	—	18.4	26	6.8	23	11	0	0	0
Luxor (A)	37.8	26	21.2	19	26	13	1	0	0	7.4	—	18.2	27	6.1	15	13	0	0	0
Aswan (A)	38.6	10	21.2	20	27	16	5	0	0	—	—	18.3	10	5.4	21	11	0	0	0
Siwa	37.1	25	18.0	18	13	3	1	0	0	7.4	—	19.9	25	4.8	1·20·21	22	3	0	0
Bahariya	36.1	25·26	18.0	19	16	3	2	0	0	8.1	—	16.1	25	4.3	20	19	1	0	0
Farafra	37.7	25	18.2	19	16	3	2	0	0	6.8	—	17.9	26	3.0	21	27	6	0	0
Dakhla	40.2	26	20.3	20	21	8	2	1	0	—	—	15.2	27	3.1	5,15	26	12	0	0
Kharga	38.4	26	21.3	20	22	10	2	0	0	8.6	—	19.2	27	6.0	15	13	0	0	0
Tor	29.2	26	19.8	20	9	0	0	0	0	—	—	19.0	27	8.0	23	3	0	0	0
Hurghada	28.3	16	19.9	20	15	0	0	0	0	9.4	—	17.2	4	9.0	3	5	0	0	0
Quseir	28.4	26	19.4	20	2	0	0	0	0	14.6	—	18.8	27	12.2	24	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

MARCH — 1966

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	2.2	3.0	4.5	2.3	2.8	3.6	— 8.0	2.4	19	0	3	2	0	0	0	0
Mersa Matruh (A)	2.3	3.4	4.1	2.4	2.9	6.2	— 6.1	4.7	18	0	5	1	0	0	0	0
Alexandria (A)	3.5	4.2	4.2	3.5	3.8	5.3	— 7.1	1.7	18,21	0	4	3	0	0	0	0
Port Said (A)	1.8	2.7	3.3	2.1	2:4	9.4	+ 1.7	5.0	19	1	4	3	1	0	0	0
El Arish	3.3	3.1	3.5	3.5	3.5	18.5	+ 6.5	9.0	22	0	7	4	1	0	0	0
Ghazza	3.8	3.4	3.9	2.8	3 6	29.6	— 2.7	20.1	19	1	7	3	2	1	0	0
Tanta	0.7	2.3	4.6	1.6	2.4	1.0	— 3.2	0.3	21,26	0	4	0	0	0	0	0
Cairo (A)	1.6	2.6	4.1	2.0	2.6	2.2	+ 0.4	0.9	12	1	3	0	0	0	0	0
Fayoum	—	1.5	3.4	2.5	—	0.2	— 1.2	0.1	16,27	2	2	0	0	0	0	0
Minya (A)	0.7	1.9	2.5	1.0	1.5	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.6	1.6	2.4	1.0	1.3	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	1.4	1.9	1.8	1.7	1.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.9	1.7	1.6	1.7	1.5	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	1.2	2.2	2.6	1.2	1.9	Tr.	— 0.2	Tr.	11,15	2	0	0	0	0	0	0
Bahariya	0.7	1.8	2.9	1.5	1.7	Tr.	0.0	Tr.	16,26	2	0	0	0	0	0	0
Farafra	—	1.6	2.6	1.6	—	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Dakhla	0.4	1.5	1.4	0.7	1.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.9	1.4	1.5	0.6	1,4	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	0.7	2.1	2.6	2.0	1.7	0.0	— 1.2	0.0	—	0	0	0	0	0	0	0
Hurghada	0.5	1.5	2.1	1.6	1.3	0.8	+ 0.4	0.8	10	0	1	0	0	0	0	0
Quseir	1.0	3.5	2.0	1.6	1.5	0.1	— 0.2	0.1	10	0	1	0	0	0	0	0

TABLE A 4. — DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

MARCH 1966

Station	Precipitation				Frost	Thunderstorm,	Mist Vis ≥1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice, Pellets	Hail											
Sallum	4	0	0	0	0	0	1	0	0	0	10	3	1	13	3
Mersa Matruh (A)	6	0	0	0	0	0	3	0	0	0	8	1	2	12	4
Alexandria (A)	4	0	0	0	0	2	2	5	2	0	6	1	0	5	5
Port Said (A)	3	0	0	0	0	0	0	0	0	0	3	0	1	14	0
El Arish	5	0	0	1	0	2	6	0	3	0	6	2	0	7	1
Ghazza	4	0	0	0	0	3	1	0	1	0	1	0	1	7	4
Tanta	3	0	0	0	0	0	1	0	0	0	0	0	0	16	0
Cairo (A)	4	0	0	0	0	0	4	1	11	0	8	1	0	11	0
Fayoum	2	0	0	0	0	0	0	0	0	0	1	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	1	0	0	5	0	0	23	0
Assyout (A)	0	0	0	0	0	0	0	0	10	0	7	1	0	23	0
Luxor (A)	0	0	0	0	0	0	0	0	21	0	9	0	0	22	1
Aswan (A)	0	0	0	0	0	0	0	0	6	0	13	2	0	22	0
Siwa	0	0	0	0	0	1	0	0	0	0	6	1	1	20	0
Bahariya	0	0	0	0	0	0	0	0	0	0	6	0	0	19	0
Farafra	0	0	0	0	0	0	0	0	3	0	9	1	0	—	—
Dakhla	0	0	0	0	0	0	0	0	6	0	9	0	0	27	0
Kharga	0	0	0	0	0	0	0	0	1	0	9	1	0	25	0
Tor	0	0	0	0	0	0	0	0	2	0	11	0	1	17	0
Hurghada	1	0	0	0	0	0	0	0	1	0	6	2	4	21	0
Quseir	1	0	0	0	0	0	2	0	5	0	6	0	0	22	1

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MARCH — 1966

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Sallum.	20	7	0	1 –10	27	35	36	35	31	13	8	12	21	41	48	43	350
				11—27	11	15	16	6	8	1	19	50	48	88	63	30	355
				28—47	0	0	0	0	0	0	1	3	7	1	0	0	12
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**38**	**50**	**52**	**41**	**39**	**14**	**28**	**65**	**76**	**130**	**111**	**73**	**717**
Mersa Matruh (A)	0	0	0	1—10	26	40	12	17	26	41	26	33	14	46	28	22	331
				11—27	52	7	3	8	37	27	27	29	40	42	41	82	395
				28—47	0	0	0	0	0	0	0	2	0	7	4	5	18
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**78**	**47**	**15**	**25**	**63**	**68**	**53**	**64**	**54**	**95**	**73**	**109**	**744**
Alexandria . . (A)	29	1	0	1—10	35	31	51	59	85	40	20	30	17	31	86	47	532
				11—27	8	6	5	3	1	5	3	4	16	30	73	24	178
				28—47	0	0	0	0	0	0	0	0	4	0	0	0	4
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**43**	**37**	**56**	**62**	**86**	**45**	**23**	**34**	**37**	**61**	**159**	**71**	**714**
Port Said . . (A)	1	2	0	1—10	72	52	66	58	31	21	16	4	27	28	14	21	410
				11—27	10	18	51	16	8	8	10	12	49	59	42	27	310
				28—47	0	0	0	0	0	0	0	1	16	1	3	0	21
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**82**	**70**	**117**	**74**	**39**	**29**	**26**	**17**	**92**	**88**	**59**	**48**	**741**
Tanta	22	0	0	1—10	39	45	67	96	69	31	26	29	70	93	64	50	679
				11—27	0	0	0	1	0	0	0	0	3	24	4	11	43
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**39**	**45**	**67**	**97**	**69**	**31**	**36**	**29**	**73**	**117**	**68**	**61**	**722**
Cairo . . . (A)	26	1	0	1—10	30	35	70	34	21	23	17	31	24	34	81	35	435
				11—27	13	31	40	22	16	23	7	23	22	42	26	17	282
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**43**	**66**	**110**	**56**	**37**	**46**	**24**	**54**	**46**	**76**	**107**	**52**	**717**
Fayoum	9	6	96	1—10	179	45	14	12	13	23	53	50	50	48	38	88	613
				11—27	6	0	0	0	0	0	0	0	5	3	0	5	19
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**185**	**45**	**14**	**12**	**13**	**23**	**53**	**50**	**55**	**51**	**39**	**93**	**633**
Minya . . . (A)	61	109	0	1—10	98	7	2	2	14	42	20	5	13	21	28	124	376
				11—27	66	0	0	0	0	11	7	0	4	17	20	73	198
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**164**	**7**	**2**	**2**	**14**	**53**	**27**	**5**	**17**	**38**	**48**	**197**	**574**

Table A 5. *(contd.)*—**NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**

MARCH — 1966

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345/014	015/044	045/074	075/104	105/134	135/164	165/194	195/224	225/254	255/284	285/314	315/344	All directions
Assyout . . . (A)	4	0	0	1—10	6	9	12	44	44	25	24	12	57	161	125	64	583
				11—27	6	1	0	0	10	1	1	1	1	15	61	60	157
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**12**	**10**	**12**	**44**	**54**	**26**	**25**	**13**	**58**	**176**	**186**	**124**	**740**
Luxor . . . (A)	8	10	2	1—10	47	73	36	38	28	37	51	37	21	54	137	125	684
				11—27	1	1	5	3	1	0	0	0	0	1	18	10	40
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**48**	**74**	**41**	**41**	**29**	**37**	**51**	**37**	**21**	**5**	**155**	**135**	**724**
Aswan . . . (A)	0	1	7	1—10	111	182	31	7	6	3	4	6	5	2	13	44	414
				11—27	121	108	12	8	7	0	0	3	2	1	7	52	321
				28—47	0	0	0	1	0	0	0	0	0	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**232**	**290**	**43**	**16**	**13**	**3**	**4**	**9**	**7**	**3**	**20**	**96**	**736**
Siwa	10	26	162	1—10	5	8	29	47	27	25	21	24	41	58	29	12	326
				11—27	11	10	1	16	18	8	16	2	5	46	50	29	212
				28—47	0	0	0	1	0	1	0	0	6	0	0	0	8
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**16**	**18**	**30**	**64**	**45**	**34**	**37**	**26**	**52**	**104**	**79**	**41**	**546**
Dakhla	11	7	0	1—10	11	25	32	56	37	46	44	36	48	111	155	64	665
				11—27	2	0	0	0	5	0	0	0	1	21	17	15	61
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**13**	**25**	**32**	**56**	**42**	**46**	**44**	**36**	**49**	**132**	**172**	**79**	**726**
Kharga.	1	30	3	1—10	104	87	31	23	14	14	8	20	6	10	61	53	431
				11—27	151	26	3	0	1	3	1	0	2	1	39	48	275
				28—47	3	0	0	0	0	0	0	0	0	0	0	1	4
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**258**	**113**	**34**	**23**	**15**	**17**	**9**	**20**	**8**	**11**	**100**	**102**	**710**
Hurghada	46	2	0	1—10	5	10	17	7	25	24	14	6	3	3	75	6	195
				11—27	81	10	4	5	15	18	1	0	1	36	211	86	468
				28—47	4	0	0	0	0	0	0	0	0	0	15	14	33
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**90**	**20**	**21**	**12**	**40**	**42**	**15**	**6**	**4**	**39**	**301**	**106**	**696**
Quseir	2	24	0	1—10	59	44	12	26	17	6	28	8	5	105	105	39	454
				11—27	106	13	0	0	1	0	0	0	1	23	19	92	255
				28—47	9	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	9
				All speeds	**174**	**57**	**12**	**26**	**18**	**6**	**28**	**8**	**6**	**128**	**124**	**1 3**	**718**

TABLE B 1.—UPPER AIR CLIMATOLOGICAL DATA

MARCH — 1966

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	31	*1016m.b.	*1025m.b.	*1007m.b.	31	12.3	22.9	7.9	31	7.8
	1000	31	163	234	87	31	12.9	23.9	9.0	31	7.7
	850	31	1517	1584	1421	31	6.9	19.2	— 3.2	27	— 4.1
	700	31	3088	3186	2957	31	— 1.6	6.7	— 9.5	15	—12.7
	600	31	4301	4422	4139	31	— 9.7	— 2.7	—19.1	13	—17.2
	500	31	5647	5840	5477	31	—19.6	—12.7	—28.0	11	—22.8
	400	31	7299	7498	7037	31	—31.2	—25.0	—35.6	6	—34.9
	300	29	9282	9513	8993	29	—44.2	—37.8	—48.8	3	—40.4
	200	27	11934	12169	11668	27	—54.0	—46.4	—62.4	—	—
	150	20	13742	13968	13539	20	—58.0	—52.8	—62.8	—	—
	100	16	16254	16445	16120	16	—65.2	—60.0	—69.5	—	—
	70	12	18416	18520	18270	12	—65.4	—61.0	—69.9	—	—
	60	11	19368	19459	19208	11	—64.3	—58.8	—71.2	—	—
	50	9	20494	20571	20330	9	—62.1	—56.4	—66.8	—	—
	40	6	21867	21985	21706	6	—60.0	—57.3	—63.7	—	—
	30	5	23656	23779	23546	5	—57.9	—51.1	—62.7	—	—
	20	3	26230	26370	26160	3	—53.8	—52.0	—57.5	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T	Surface	31	*999m.b.	*1007m.b.	*991m.b.	31	13.6	21.2	7.4	31	3.3
	1000	31	135	198	52	14	12.1	19.4	7.6	14	3.2
	850	31	1493	1552	1404	31	8.5	17.5	— 2.6	22	— 4.7
	700	31	3073	3159	2965	31	0.1	7.0	—10.6	11	—11.6
	600	31	4290	4399	4138	31	— 7.9	— 1.0	—18.2	11	—17.9
	500	31	5682	5840	5470	31	—17.6	—12.7	—28.0	10	—25.0
	400	31	7320	7492	7088	31	—29.6	—25.4	—34.4	6	—32.6
	300	31	9319	9504	9120	31	—41.9	—32.5	—46.4	—	—
	200	31	11983	12140	11810	31	—54.3	—47.2	—62.6	—	—
	150	31	13802	13962	13642	31	—60.6	—55.2	—66.5	—	—
	100	29	16272	16393	16087	29	—69.0	—61.2	—77.2	—	—
	70	28	18420	18600	18220	28	—66.8	—59.7	—73.8	—	—
	60	27	19351	19469	19145	27	—65.6	—59.6	—69.0	—	—
	50	26	20464	20605	20257	26	—63.1	—57.2	—67.0	—	—
	40	26	21839	21998	21646	26	—61.4	—56.3	—67.8	—	—
	30	24	23640	23854	23466	24	—56.3	—51.2	—68.0	—	—
	20	21	26223	26498	25939	21	—53.0	—44.4	—62.4	—	—
	10	2	30664	31021	30306	2	—47.7	—42.4	—53.0	—	—
Aswan 0000 U.T.	Surface	29	*991m.b.	*998m.b.	*982m.b.	29	16.0	25.0	11.0	29	— 1.6
	1000	29	120	176	36	—	—	—	—	—	—
	850	29	1502	1544	1439	29	14.4	23.2	5.0	18	— 5.6
	700	29	3121	3180	3072	29	7.2	13.1	1.3	7	— 9.0
	600	29	4371	4436	4314	29	— 0.6	2.9	— 9.3	9	—13.5
	500	29	5804	5886	5745	29	—10.7	— 7.3	—14.7	8	—20.5
	400	29	7485	7581	7395	29	—21.7	—15.7	—26.5	11	—28.8
	300	26	9543	9662	9402	26	—35.1	—29.1	—42.2	4	—42.4
	200	25	12262	12390	12103	25	—52.9	—44.2	—56.2	—	—
	150	23	14060	14131	13925	23	—63.7	—60.1	—68.0	—	—
	100	15	16466	16510	16388	15	—74.5	—67.8	—78.6	—	—
	70	5	18541	18750	18270	5	—75.9	—70.7	—83.9	—	—
	60	3	19460	19507	19394	3	—69.3	—68.5	—69.8	—	—
	50	3	20540	20605	20440	3	—66.8	—66.1	—67.8	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 1 (*contd.*).—UPPER AIR CLIMATOLOGICAL DATA

MARCH — 1966

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	31	* 1016m.b.	* 1024m.b.	* 1005m.b.	31	18.8	26.4	10.8	31	8.3
	1000	31	163	237	71	31	17.5	25.8	10.4	30	7.4
	850	31	1526	1586	1424	31	8.5	18.7	0.1	24	— 4.1
	700	31	3105	3192	2955	31	— 0.3	8.5	— 6.0	13	—10.2
	600	31	4317	4429	4126	31	— 8.8	— 2.7	—18.7	14	—16.7
	500	31	5703	5845	5459	31	—18.5	—11.7	—29.4	11	—25.0
	400	31	7332	7502	7022	31	—26.6	—23.7	—38.8	7	—33.5
	300	30	9325	9534	9024	30	—42.7	—34.8	—50.0	—	—
	200	27	11998	12246	11780	27	—53.1	—45.9	—61.0	—	—
	150	26	13844	14064	13697	26	—57.3	—51.2	—66.0	—	—
	100	20	16368	16526	16254	20	—63.9	—57.4	—73.2	—	—
	70	11	18555	18700	18490	11	—61.0	—55.8	—66.1	—	—
	60	7	19514	19649	19448	7	—63.2	—60.0	—66.8	—	—
	50	6	20646	20779	20596	6	—59.9	—57.5	—64.5	—	—
	40	4	22034	22072	22008	4	—56.8	—54.7	—59.0	—	—
	30	2	23832	23838	23827	2	—54.7	—51.0	—58.4	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	* 999m.b.	* 1005m.b.	* 986m.b.	31	23.1	32.1	16.3	31	0.8
	1000	31	131	184	28	14	20.7	26.7	15.6	13	2.6
	850	31	1507	1568	1434	31	10.2	20.8	1.9	24	— 4.2
	700	31	3095	3176	2980	31	1.3	7.8	—10.3	10	—11.1
	600	31	4317	4427	4179	31	— 6.4	0.4	—14.0	11	—18.5
	500	31	5717	5860	5549	31	—16.1	—11.3	—25.0	7	—23.3
	400	31	7362	7539	7159	31	—27.0	—20.7	—31.5	7	—31.5
	300	31	9381	9603	9151	31	—40.5	—30.4	—46.4	2	—39.0
	200	31	12067	12315	11895	31	—52.8	—45.1	—58.7	—	—
	150	31	13901	14132	13747	31	—58.6	—54.0	—64.5	—	—
	100	30	16391	16576	16246	30	—67.1	—60.8	—72.8	—	—
	70	28	18478	18690	18420	28	—66.4	—61.8	—71.0	—	—
	60	28	19485	19612	19356	28	—64.3	—57.8	—69.4	—	—
	50	28	20608	20736	20487	28	—61.1	—57.1	—64.2	—	—
	40	28	22007	22148	21847	28	—57.4	—51.9	—61.8	—	—
	30	25	23845	24003	23742	25	—53.9	—47.7	—61.5	—	—
	20	20	26484	26661	26325	20	—48.8	—40.8	—55.0	—	—
	10	7	31062	31208	30864	7	—38.9	—29.7	—42.8		—
Aswan 1200 U.T.	Surface	29	* 990m.b.	* 996m.b.	* 980m.b.	29	28.9	38.0	21.0	29	0.3
	1000	29	108	159	11	—	—	—	—	—	—
	850	29	1514	1550	1465	29	16.1	24.8	6.6	11	— 4.8
	700	29	3139	3190	3075	29	8.0	14.6	3.0	5	—10.6
	600	29	4394	4457	4328	29	0.8	5.2	— 3.8	6	—15.8
	500	29	5833	5917	5756	29	— 9.4	— 4.8	—13.3	5	—19.1
	400	29	7522	7633	7418	29	—20.5	—13.2	—25.5	3	—24.2
	300	29	9594	9737	9456	29	—33.7	—26.3	—41.9	1	—44.0
	200	29	12335	12505	12170	29	—50.0	—42.5	—55.8	—	—
	150	22	14139	14360	14000	22	—63.9	—60.7	—69.8	—	—
	100	7	16566	16746	16480	7	—72.4	—68.8	—76.2	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE ; THE HIGHEST WIND SPEED IN THE UPPER AIR

MARCH — 1966

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000 - 360)°	Speed in Knots
0000 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh .	2673 (31)	741 (31)	-8.9 (21)	4000	634	—	1150	888	-2.0	11020 (24)	236 (24)	-54.5 (24)	14780	128	-67.0	8370	329	-39.0	11080	221	276	143
	Helwan . .	2937 (31)	717 (31)	- 8.3 (16)	4270	608	—	1150	888	-6.4	12367 (30)	205 (30)	-58.5 (30)	17500	83	-70.7	5560	495	-28.4	11510	213	280	148
	Aswan . . .	4311 (29)	611 (29)	-15.0 (9)	5840	570	-15.6	3790	642	—	15732 (10)	115 (10)	-73.4 (10)	17480	84	-75.2	14290	143	-65.3	10900	244	250	136
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh. .	2916 (31)	719 (31)	-8.1 (16)	3990	634	—	1430	849	-3.1	11211 (24)	235 (24)	-54.3 (23)	15300	122	-66.5	7800	368	-37.3	12100	204	254	175
	Helwan . . .	3179 (31)	697 (31)	-7.4 (15)	4470	596	—	1720	828	-3.0	12441 (30)	203 (30)	-57.3 (30)	18270	74	-75.7	7130	409	-28.2	11080	238	290	150
	Aswan . . .	4480 (29)	597 (29)	-11.5 (7)	5220	546	—	3810	644	—	— —	— —	— —	—	—	—	—	—	—	11750	256	240	155

N = The number of cases the element has been observed during the month

TABLE B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

MERSA MATRUH (A)—MARCH 1966

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	3	4	0	—	0	—	1	6	2	8	5	11	2	14	2	6	6	10	5	9	4	14	1	18	0	31	10
	1000	0	—	0	—	1	9	1	6	4	15	3	12	1	6	2	24	4	13	4	15	8	20	3	11	0	31	15
	850	1	9	0	—	1	9	0	—	0	—	2	13	2	16	4	18	5	22	3	21	9	23	3	18	0	30	20
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	40	3	36	6	30	9	31	5	32	2	10	0	26	30
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	44	2	46	11	41	6	38	4	42	1	10	0	25	40
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	57	9	47	6	50	5	60	1	40	0	24	52
	400	0	—	0	—	0	—	0	—	0	—	0	—	1	49	1	71	10	59	5	66	6	62	0	—	0	23	62
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	85	1	96	8	75	5	83	2	50	0	—	0	17	77
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	96	5	94	1	21	0	—	0	9	87
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	62	1	17	0	—	0	2	40
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	52	0	—	0	—	0	2	52
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	18	0	—	0	1	18
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	3	0	—	0	1	3
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	7	13	6	8	0	—	1	15	2	14	0	—	3	18	1	11	1	22	4	18	1	24	5	20	0	31	15
	1000	3	12	2	6	1	15	0	—	1	13	0	—	4	18	0	—	3	23	3	15	9	19	5	15	0	31	16
	850	0	—	0	—	0	—	0	—	0	—	0	—	2	26	4	18	10	22	6	23	4	22	4	19	1	31	21
	700	0	—	0	—	0	—	0	—	0	—	1	3	1	20	5	37	7	31	8	24	7	37	2	27	0	31	29
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	39	9	37	8	36	9	40	1	47	0	31	38
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	48	9	55	9	43	7	56	1	52	0	29	51
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	75	6	72	10	61	7	80	1	62	0	28	70
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	84	7	77	8	78	6	102	0	—	0	23	84
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	112	5	82	1	131	0	—	0	9	97
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	78	0	—	1	42	0	—	0	2	60
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	45	0	—	0	—	0	1	45
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been obeserved for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

HELWAN—MARCH 1966

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360)°																								Number of Calm winds	Total Number of Observations (T N)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	4	8	8	8	5	11	4	7	2	21	0	—	0	—	0	—	1	12	1	8	1	14	1	3	4	31	8
	1000	2	10	3	11	4	13	1	7	1	16	0	—	0	—	0	—	0	—	0	—	0	—	3	11	0	14	12
	850	6	14	0	—	2	9	1	15	1	6	1	10	1	32	1	22	7	15	7	15	3	26	1	29	0	31	16
	700	1	30	0	—	0	—	0	—	1	4	0	—	1	31	4	20	6	30	8	26	6	31	4	21	0	31	29
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	23	2	35	6	37	11	53	10	39	1	30	0	31	35
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	43	1	46	8	47	10	39	7	49	1	50	0	28	45
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	6	52	12	70	4	62	1	83	0	24	63
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	69	8	66	1	38	0	—	0	14	65
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	120	4	100	2	81	0	—	0	8	100
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	75	0	—	0	—	0	3	75
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	98	1	80	0	—	0	3	92
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	134	1	62	0	—	0	2	98
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	23	0	—	0	—	0	1	23
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	25	0	—	0	—	0	1	25
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	24	0	—	0	—	0	1	24
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	22	0	—	0	—	0	—	0	1	22
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	41	0	—	0	—	0	1	41
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	1	10	3	15	1	11	1	14	0	—	1	16	1	4	3	6	3	11	6	8	4	8	5	9	2	31	9
	1000	0	—	1	15	1	12	0	—	0	—	2	6	1	2	0	—	0	—	1	10	3	16	5	15	0	14	12
	850	2	8	4	7	1	8	2	11	0	—	2	11	3	17	1	10	6	20	4	19	5	15	1	11	0	31	14
	700	0	—	1	9	0	—	0	—	0	—	0	—	2	37	3	21	6	30	8	26	9	25	1	21	0	30	26
	600	1	18	0	—	0	—	0	—	0	—	0	—	0	—	4	32	8	32	8	28	7	35	0	—	0	28	32
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	58	8	41	10	46	5	51	1	24	0	26	46
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	95	8	64	7	55	7	67	0	—	0	23	64
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	66	7	71	5	75	0	—	0	17	70
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	105	5	79	0	—	0	—	0	6	84
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	83	1	138	0	—	0	3	101
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	43	0	—	0	1	43
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	32	0	—	0	—	0	1	32
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	42	0	—	0	—	0	1	42
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	31	0	—	0	—	0	1	31
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	24	0	—	0	—	0	1	24
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	14	0	—	0	—	0	—	0	1	14
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	11	0	—	0	—	0	1	11
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A)— MARCH 1966

Time	Pressure Surface (Millibar)	Wint between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean Scalar wind Speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	18	10	3	9	2	14	1	10	2	6	0	—	0	—	0	—	0	—	0	—	0	—	3	10	0	29	10
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	2	18	3	11	2	14	2	5	2	12	3	14	0	—	2	11	2	16	2	9	4	10	4	20	0	28	13
	700	2	24	0	—	0	—	1	14	1	24	0	—	1	18	2	15	4	45	9	27	5	22	3	39	0	28	28
	600	1	32	0	—	1	6	0	—	0	—	1	11	0	—	3	51	6	38	9	37	2	46	4	31	0	27	37
	500	1	34	0	—	0	—	0	—	0	—	0	—	0	—	1	22	8	41	13	50	3	30	1	30	0	27	43
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	28	8	69	16	57	2	38	0	—	0	27	58
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	83	11	78	2	55	0	—	0	23	78
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	78	12	94	1	96	0	—	0	19	89
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	47	9	63	0	—	0	—	0	13	58
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	29	3	31	1	32	0	—	0	7	30
	70	0	—	0	—	0	—	0	—	0	—	0	—	1	5	0	—	0	—	1	12	0	—	0	—	0	2	8
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	14	0	—	0	—	0	—	0	1	14
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0	—	0	—	0	—	0	—	0	1	15
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	8	11	6	6	2	11	1	5	0	—	0	—	0	—	1	16	1	6	0	—	1	8	7	8	2	29	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	3	14	2	17	4	12	1	5	1	23	1	3	2	18	3	13	1	11	3	19	5	11	3	20	0	29	14
	700	0	—	1	12	0	—	0	—	1	18	2	10	0	—	0	—	11	27	6	34	4	20	4	27	0	29	24
	600	1	14	0	—	0	—	0	—	1	5	1	3	0	—	1	18	10	51	10	27	5	34	0	—	0	29	34
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	12	7	46	16	43	4	38	1	13	0	29	41
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	10	66	15	53	2	52	1	17	0	29	55
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	128	7	89	19	72	1	116	0	—	0	28	78
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	86	15	86	3	52	0	—	0	20	81
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	60	9	64	0	—	0	—	0	14	63
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	23	2	28	0	—	0	—	0	4	26
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

N=total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATION AT EL KASR MARCH 1966

This month was generally mild. Mean air temperature was 0.2°C above normal and total amount of rainfall was 1.0 mms below normal.

The month was characterised by 3 short heat waves with peaks on 3, 15 and 24th. The most intense heat wave occurred on the 15th when the absolute maximum was recorded. The month was also characterised by a cold wave which prevailed in the period from 16th to 23rd when maximum amount of rainfall in one day was recorded on the18th and extreme minimum temperature of the month was recorded on the 19th.

The extreme maximum soil temperatures were lower than the corresponding values of last March - except at 20 cms depth where it was higher by 1.8°C ; deviations were between - 1.3°C and - 0.1°C. The extreme minima were also lower than the corresponding values of March 1965 - except at 1 cm where it was the same as that of last year and at depth 100 cms where it was higherthan the corresponding value of last March by 0.9°C ; deviations varried between - 1.1°C and - 0.3°C.

Mean wind speed at 2 metres was above the corresponding value of last March by 0.2 metre/second. Mean daily values of Piche and water pan evaporation were higher than the corresponding values of Mach 1965by 0.6 and 0.72 mms respectively. Actual total sunshine duration was 32.0 hours lower than the corresponding value of last March

REVIEW OF AGRO-METEOROLOGICAL STATION AT TAHRIR MARCH 1966

The month was cooler, drier and more rainy than March 1965. Mean daily air temperature at 2 metres height above ground level was 0.7°C below the corresponding value of March 1965. Mean daily relative humidity was below the corresponding value of last March by 1% while total rainfall was 2.9 mms above the corresponding value.

Th month was characterised by several heat waves, and several cases of sand and showers, one of which was accompanied with thunder. Only three waves were worth mentioning; those with their peaks on 10th, 16th & 25th. The first wave was followed by cool humid air which caused a drop in temperature of9.5°C on 11th and thundery showers on 12th, which yielded the maximum amount of rainfall in one day during that month. The second wave was very dry; giving the extreme minimum relative humidity of the month on 16th. The period from 17th to 24th was well below average as concerns temperature, and the unusual extreme minimum of 3.8°C was recorded on 23rd. The last and most distinguished heat wave occurred and passed away on the 25th. The peak on 25th yielded the extreme maximum temperature of the month.

Extreme maximum soil temperatures were irregularly and slightly different from last year between 0.3 cms and 5 cms, but from 10 cms to one metre they were lower by 0.9°C to 1.8°C. On the other hand the minima were all down to 50 cms. lower by 0.9°C to 3.2°C. At one metre the extreme minimum temperature was higher by 0.4°C.

Mean wind speed at 2 metres was lower by 0.1 metre/second than the corresponding value of last March. Also, mean Piche and pan "A" evaporation were lower than the corresponding values of March 1965 by 0.8 mms and 0.33 mms respectively. Actual total sunshine duration was less by 27.9 hours (i.e. 8% of the possible duration) than last year.

REVIEW OF AGRO-METEOROLOGICAL STATION AT GIZA

MARCH 1966

The month was practically normal as concerns air temp., but slightly drier than normal. Mean daily air temperature at 2 metres height above ground level was 0.1°C below normal, mean daily relative humidity and mean daily vapour pressure were below normal by 3% & 0.6 mms respectively.

The month was characterised by several heat waves, 2 of which took place in the first 10 days with their peaks on 2nd and 10th. In the rest of the month the temperature was below normal except for the periods 14th to 16th, & 24th to 26th, when 2 heat waves occurred, having their peaks on 16 and 25. The main amount of precipitation (1.5 mms) fell on the 12th, the remaining amount fell after the passage of the cold front on 16th, which was preceded by the unique duststorm occurring in the month. The period 18th to 23rd was relatively very dry and cool, giving on 18th the lowest instantaneous and mean vapour pressure in the month, and on 23rd the unusual extreme minimum air temperature. The peak of the last heat wave gave the extreme maximum air temperature and the highest evaporation.

The extreme maxima of soil temperature from the surface to one metre depth were lower than the corresponding values of last March — except at 5 cms where the maximum was higher by 0.5°C ; deviations varied between 0.2°C to 4.2°C. The extreme minima were also lower than the corresponding values of last year at 10, 20 cms. by 2.2°C and 1.3°C respectively, but at the other depths the differences were slight and irregular.

Mean wind speed at 2 metres was aboveaverage by 0.4 metres/second. Also, mean Piche evaporation was 1.4 mms. above average, while mean pan "A" evaporation 0.15 mms below average. Actual sunshine duration was 1 % (of possible) above normal.

REVIEW OF AGRO-METEOROLOGICAL STATION AT KHARGA

MARCH 1966

This month was warmer than normal. Mean daily air temperature at 2 metres above ground was 0.6°C higher than normal.

The month was characterised by two heat waves, the first heat wave occurred between the 5th and the 10th. The 2nd heat wave which was the most intense occurred in the period 23rd to 26th with its peak on 26th giving rise to the absolute maximum air temperature on the 26th (8.5°C above normal). A cold spell took place in the period 16th to 23rd with its peak on 20th, when the lowest air temperature was recorded.

The extreme maxima of soil temperatures at depths 0.3, 2 and 5 cms were higher than the corresponding values of last March, while those of other depths were lower than the corresponding values of March 1965, deviations varied between -0.5°C to -0.1°C. The extreme minimum soil temperatures at all depths from the surface up to 50 cms depth were lower than the corresponding values of last March, deviations were between - 2.5°C. to — 0.2°C, while the extreme minimum of 100 cms. depth was higher by 0.1°C than the corresponding value of last March.

Mean wind speed at 2 metres height was the same as that of March 1965. Mean Piche evaporation was higher than the corresponding value of last March by 5.9 mms while that of pan "A" was lower by 0.55 mms. Total actual duration of bright sunshine was higher by 12.0 hours than the corresponding value of last March.

TABLE C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

MARCH — 1966

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values.										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	20.5	9.8	15.0	12.9	17.0	24.0	24.0	24.0	21.5	11.4	2.6	0.5	0.0	0.0	0.0	0.0
Tahrir	24.4	9.2	16.2	13.1	19.3	24.0	24.0	24.0	21.1	12.7	6.0	1.4	0.3	0.0	0.0	0.0
Giza	24.6	8.7	16.6	13.7	19.4	24.0	24.0	23.9	21.1	14.0	6.5	1.6	0.2	0.0	0.0	0.0
Kharga	28.2	10.7	19.8	17.1	22.9	24.0	24.0	24.0	22.7	18.0	14.0	7.5	1.6	0.2	0.0	0.0

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS.

MARCH — 1966

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	29.0	15	14.9	19	15.8	25	4.8	3	4.1	21	—	—
Tahrir	34.8	25	17.9	19	15.0	26	3.8	23	1.7	23	—	—
Giza	33.5	25	17.6	19	21.3	26	3.8	23	—0.2	23	—	—
Kharga	38.4	26	21.3	20	19.4	27	6.0	15	3.8	5	—	—

TABLE C 3.—(SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL.

MARCH — 1966

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity. %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class (A)	Total Amount Monthly	Max. Fall in one day	Date
El Kasr	411.2	258.8	371.2	70	—	—	70	54	19	14	8.5	8.5	12.6	10	3.3	15	12.1	7.21	10.7	6.3	18
Tahrir	497.4	272.5	371.4	73	2.8	5.4	60	34	9	16	7.7	6.9	11.9	9	2.3	18	11.7	6.89	3.3	2.7	13
Giza	483.3	279.1	371.4	75	1.1	4.3	56	32	10	16	7.4	6.6	12.3	26	2.7	18	12.0	6.22	2.1	1.5	12
Kharga	474.1	318.2	372.2	86	0.0	0.1	29	17	6	16	4.6	4.4	10.4	27	1.9	23	24.4	11.87	0.0	0.0	—

TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS IN DIFFERENT FIELDS

MARCH — 1966

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr . . .	H	36.7	33.0	31.6	27.0	24.0	22.0	18.4	18.3	18.8	—	—	—	—	—	—	—	—	—	—	—
	L	4.5	6.4	6.4	8.2	10.0	12.7	15.5	17.2	18.7	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	42.6	43.0	36.2	33.6	28.7	24.0	21.1	20.3	20.5	21.2	—	—	—	—	—	—	—	—	—	—
	L	4.3	4.6	5.4	8.9	11.2	14.3	16.9	18.9	19.7	20.7	—	—	—	—	—	—	—	—	—	—
Giza	H	52.1	47.8	45.8	32.1	26.8	23.0	21.9	21.8	22.4	24.0	28.7	25.8	23.7	21.6	19.7	18.1	17.7	17.7	19.2	—
	L	3.0	4.8	5.4	10.1	14.7	18.6	20.2	20.7	22.2	23.4	7.0	7.2	7.2	10.0	11.7	14.0	16.2	17.0	19.0	—
Kharga. . . .	H	—	—	44.0	38.0	36.6	27.4	25.3	24.3	25.4	26.6	—	—	—	—	—	—	—	—	—	—
	L	—	—	9.0	11.8	16.8	19.6	21.8	22.7	24.5	26.0	—	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

MARCH — 1966

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres.							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time Mean	≥10 knots	≥15 knots	≥20 knot	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value (knots)	Date
El Kasr. . .	4.6	3.9	5.8	—	—	—	—	—	—	—	—	—
Tahrir. . . .	3.1	2.3	4.1	30	21	10	3	2	2	0	47	19
Giza	2.6	1.9	3.5	30	20	6	1	0	0	0	36	18
Kharga.. . .	3.7	2.9	4.9	28	23	12	6	2	1	0	41	27