Chapter 11

CONCLUSION

From all previous discussion, it is obviously seen that each medium is suitable only for certain - surroundings and conditions. However, the main object of this selection is that, the required medium must posses the following properties.

1. the lowest price
2. the lowest installation cost.
3. to be simple in operation and maintenance
4. the highest efficiency in transmission
5. the lowest geographical difficulty

It is impossible to find the communication medium that fulfil these requirements, because the medium that posseses highest efficiency in transmission such as microwave, has also the highest cost. So the best communication medium for the purpose of the telemetering and Supervsory control system is the medium that satisfies the most of those requirements. This can be done in the comparison table as illustrated in the table 6. Then the conclusion is drawn that the UHF. is the best medium of the selection at this time and the future.

Table 6 Comparison of Media.

Media	Price	Installatin Cost.	Operation and Maintenance	Efficiency in Transmission	Geographical difficulty	Remarks.
Pilot Wire	-	high	difficult	poor	high	The price is unknown.
Power line Carrier	low	low	difficult	poor	high	
UHF	low	low	easy	good	low	
VHF	low	low	easy	satisfy	low	
Microwave	High	high	easy	good	high	

11.1 The layout of UHF. for MEA. system.

The single line diagram which illustrated the layout of the UHF. communication in the MEA. transmission and distribution system is shown in Fig.2 In this figure, Watlieb substation which is equiped with the UHF. trans - ceiver and the omnidirectionantenna is the center in controlling other substations which are equiped with the UHF transceivers and the unidirection antennas.

The installation costs of the antenna structures in each substation are different due to the difference in surroundings and geographical situations. As previously described, Mahamek, Lumpini, Phrakanong, Makasan, Patumwan, Bapandam and Watlieb substations which are among the multi-story buildings must be equiped with higher antennas which means more expensive than other substations.

According to the list price in Table 5, the price of the UHF set which composed of the UHF transceiver and the Carrier Multiplex is about 237,760 Baht. For one substation. If the 60 substations come to be accounted, it would be 14,265,600 Baht excluding the price of antenna, the - installation cost and the taxes etc.

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY JANUARY 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.	WIND			RADIATION			CLASS A PAN EVAPORATION						PICHE
		MAX	MIN	DRY	WET	0730 DEW AM	POINT	MIN	TIME		MAX INT.	SURF. KM/	MAX GUST	TOT CAL /SQ	SUN. ACT	POS	OPEN PAN MAX*	OPEN PAN MIN*		SCREENED PAN MAX*	SCREENED PAN MIN*		
	MBS**	DEG C	DEG C	DEG C	DEG C	PER CENT	DEG C	PER CENT		MM	MM/HR	DAY	KPH	CM	HR	HR	✓ MM	DEG C	DEG C	// MM	DEG C	DEG C	MM
1	1020.78	30.3	19.2	20.0	17.1	75.0	15.0	MISS	MISS	0.00	0.0	31.33	25.0	398			4.83	29.4	22.2	4.14	27.7	21.1	3.36
2	1021.44	29.4	19.1	20.2	17.3	75.0	15.3	MISS	MISS	0.00	0.0	21.36	17.0	212			8.45	33.9	20.5	6.30	32.2	21.1	3.56
3	1022.18	29.6	18.4	19.1	16.2	74.2	14.1	MISS	MISS	0.00	0.0	32.68	24.0	410			4.18	31.5	20.0	4.18	29.4	19.4	4.03
4	1022.84	28.1	16.9	17.1	14.0	71.2	12.0	MISS	MISS	0.00	0.0	35.31	35.0	369			4.90	31.2	19.4	3.84	29.0	19.4	4.01
5	1023.91	26.9	15.1	16.5	13.4	71.0	11.0	MISS	MISS	0.00	0.0	34.15	36.0	361			4.55	28.0	25.0	4.23	26.1	16.1	4.14
6	1021.33	26.5	15.4	16.1	14.0	80.0	12.1	MISS	MISS	0.00	0.0	31.89	25.5	418			5.84	28.1	24.9	5.05	26.6	15.5	4.00
7	1020.78	27.0	15.0	17.0	14.5	77.0	13.0	MISS	MISS	0.00	0.0	20.75	17.0	349			3.77	27.2	24.0	2.07	25.5	16.1	3.06
8	1021.91	29.5	16.2	18.8	16.0	75.0	14.0	MISS	MISS	0.00	0.0	24.88	21.0	424			4.31	30.5	24.3	4.12	28.3	17.7	3.70
9	1024.11	28.1	15.1	15.9	12.9	71.0	10.8	MISS	MISS	0.00	0.0	51.07	32.0	422			6.19	30.0	24.1	5.57	28.3	16.1	4.45
10	1024.58	26.6	15.0	16.5	13.4	71.0	11.0	MISS	MISS	0.00	0.0	52.42	26.5	412			7.40	31.0	24.5	7.15	29.4	16.1	4.30
11	1021.58	27.8	15.6	15.7	13.9	82.0	12.3	MISS	MISS	0.00	0.0	29.58	18.8	414			4.23	28.9	15.5	5.27	26.6	16.1	4.04
12	1020.58	28.7	16.0	17.7	15.6	80.4	14.3	MISS	MISS	0.00	0.0	22.20	11.0	398			3.94	29.5	16.5	4.19	27.2	17.2	3.74
13	1018.84	30.1	17.1	19.6	17.9	85.0	17.0	MISS	MISS	0.00	0.0	12.67	15.0	416			3.84	31.5	18.0	2.34	29.4	18.3	3.36
14	1019.44	31.4	18.4	21.9	20.0	84.0	19.0	MISS	MISS	0.00	0.0	12.08	15.0	351			3.37	32.8	20.0	3.67	30.5	20.0	2.68
15	1017.24	31.1	19.5	20.1	19.3	93.0	19.0	MISS	MISS	0.00	0.0	9.36	10.0	329			2.98	32.0	21.0	3.34	29.4	21.1	2.87
16	1017.11	31.2	19.7	20.6	19.8	93.0	19.2	MISS	MISS	0.00	0.0	15.92	14.3	549			4.14	32.2	20.5	2.61	30.0	21.1	2.63
17	1017.71	31.3	19.7	22.0	20.8	90.0	20.0	MISS	MISS	0.00	0.0	18.66	18.0	181			3.95	33.5	21.2	4.09	31.1	21.1	2.51
18	1019.38	31.6	20.7	22.5	21.5	92.0	21.0	MISS	MISS	0.00	0.0	14.43	19.2	318			3.51	32.5	21.3	1.93	30.2	22.2	2.45
19	1018.64	32.0	21.5	22.4	21.5	92.0	21.0	MISS	MISS	0.00	0.0	19.37	21.5	353			4.44	33.2	22.1	3.66	30.8	22.2	2.69
20	1017.84	31.2	21.5	22.4	21.5	92.0	21.0	MISS	MISS	0.00	0.0	13.25	15.0	347			4.54	35.0	23.3	5.69	33.0	23.6	2.53
21	1018.44	32.5	21.6	22.5	22.1	97.0	22.0	MISS	MISS	0.00	0.0	15.26	15.0	349			3.72	33.1	23.1	3.08	31.1	22.7	2.34
22	1019.24	32.5	22.0	23.5	22.8	94.0	22.0	MISS	MISS	0.00	0.0	16.02	14.3	328			3.51	33.9	23.2	3.32	31.1	23.3	2.38
23	1019.91	32.1	21.9	23.0	22.5	96.0	22.0	MISS	MISS	0.00	0.0	25.56	20.0	363			4.44	34.0	24.0	3.70	31.6	23.3	2.72
24	1019.38	31.9	22.0	23.5	22.0	88.0	21.0	MISS	MISS	0.00	0.0	20.95	25.5	367			3.82	34.0	23.0	3.77	31.1	23.3	3.00
25	1018.98	32.3	22.2	23.8	22.7	91.0	22.0	MISS	MISS	0.00	0.0	18.49	18.5	369			4.07	34.3	23.5	4.43	31.6	23.3	2.54
26	1019.44	32.3	22.8	23.8	22.8	92.0	22.6	MISS	MISS	0.00	0.0	18.33	13.2	369			4.07	34.5	23.5	3.16	32.2	23.3	2.48
27	1019.11	31.3	22.3	23.3	22.2	91.0	21.6	MISS	MISS	0.00	0.0	20.79	17.0	288			4.60	34.5	24.0	5.04	32.5	23.8	2.20
28	1019.04	31.3	22.3	23.9	22.8	91.0	22.0	MISS	MISS	0.00	0.0	15.44	14.3	485			3.20	31.7	23.5	2.80	29.7	23.8	2.16
29	1017.31	31.5	22.8	23.8	22.6	90.0	22.0	MISS	MISS	0.00	0.0	24.24	15.0	157			3.51	33.8	23.4	3.54	31.3	23.6	2.22
30	1018.18	33.3	22.7	24.2	23.1	91.0	22.3	MISS	MISS	0.00	0.0	22.93	15.5	416			4.19	35.6	23.5	3.50	33.3	23.5	2.26
31	1016.84	31.9	23.2	24.3	22.0	82.0	21.0	MISS	MISS	0.00	0.0	25.33	17.0	349			3.73	35.0	24.0	3.34	32.5	24.1	2.03
SUM										0.00													
MEAN	1019.94	30.3	19.3	20.6	18.9	84.7	17.8	0.0		0.00		23.44	19.4	364			4.39	32.1	22.1	3.97	29.9	20.6	3.05

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -2.57 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -5.42 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 0 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY FEBRUARY 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.	MAX INT.	WIND SURF. KM/ DAY	WIND MAX GUST KPH	RADIATION TOT CAL /SQ CM	RADIATION SUN. ACT HR	RADIATION SUN. POS HR	CLASS A PAN EVAPORATION OPEN PAN MAX* DEG C	OPEN PAN MIN* DEG C	SCREENED PAN MAX* DEG C	SCREENED PAN MIN* DEG C	PICHE
	MBS**	MAX DEG C	MIN DEG C	DRY DEG C	WET DEG C	0730 DEW AM PER CENT	POINT DEG C	MIN PER CENT	TIME	MM	MM/HR						MM				MM
1	1017.24	31.1	22.5	23.6	19.5	68.2	17.2	MISS	MISS	0.00	0.0	23.29	18.0	261			3.45	35.0	23.0	2.67	30.5	23.3	2.62
2	1015.78	31.0	22.4	23.0	22.0	92.0	22.0	MISS	MISS	0.00	0.0	19.49	14.0	286			3.40	31.6	22.9	2.89	30.0	23.3	2.77
3	1016.78	32.5	22.1	25.0	23.5	88.0	23.0	MISS	MISS	0.00	0.0	26.12	19.0	351			6.05	35.4	24.0	MISS	MISS	MISS	2.72
4	1018.51	32.0	23.0	23.7	19.7	69.0	17.3	MISS	MISS	0.00	0.0	29.36	18.0	320			4.27	34.0	23.5	MISS	MISS	MISS	2.77
5	1018.24	29.2	20.3	21.0	19.0	83.0	18.0	MISS	MISS	0.00	0.0	32.25	27.5	200			3.34	28.7	20.0	MISS	MISS	MISS	3.18
6	1018.84	30.2	21.1	22.9	18.9	68.8	16.7	MISS	MISS	0.00	0.0	22.33	22.5	290			3.32	29.2	20.2	1.65	27.8	20.6	2.93
7	1021.51	32.3	20.7	21.6	17.4	66.0	15.0	MISS	MISS	0.00	0.0	33.63	27.9	402			5.71	32.3	20.2	4.27	30.1	20.7	4.80
8	1019.64	31.2	18.8	20.4	17.3	74.0	15.7	MISS	MISS	0.00	0.0	30.12	33.0	414			4.46	32.2	20.2	MISS	MISS	MISS	4.30
9	1018.78	31.7	19.3	22.4	18.1	66.0	15.7	MISS	MISS	0.00	0.0	32.14	34.5	428			5.27	32.5	20.0	4.61	30.0	20.0	4.43
10	1018.58	31.9	19.6	22.2	18.4	69.4	16.3	MISS	MISS	0.00	0.0	27.20	36.7	412			4.71	32.8	21.4	MISS	MISS	MISS	4.63
11	1017.51	32.5	22.3	20.8	19.1	85.0	18.0	MISS	MISS	0.00	0.0	16.29	16.8	404			6.89	35.8	22.4	6.06	33.0	22.7	4.25
12	1016.71	32.7	22.5	21.9	20.6	89.0	20.0	MISS	MISS	0.00	0.0	16.00	18.5	398			4.93	33.6	22.1	4.58	30.8	22.2	3.44
13	1016.11	32.7	23.6	22.7	21.6	91.0	21.0	MISS	MISS	0.00	0.0	17.23	16.0	383			4.18	34.4	22.8	3.51	31.3	22.5	2.91
14	1016.58	32.8	23.8	22.8	22.0	93.0	21.6	MISS	MISS	0.00	0.0	17.06	16.0	390			4.84	34.5	22.8	3.44	31.6	23.0	2.56
15	1017.64	32.8	24.2	24.9	23.2	87.0	22.7	MISS	MISS	0.00	0.0	21.95	21.0	416			4.47	35.2	23.3	4.00	32.7	23.6	2.47
16	1018.24	31.7	23.4	23.9	21.9	84.0	21.0	MISS	MISS	24.20	140.0	23.10	26.5	222			4.94	32.6	23.2	4.00	30.2	23.3	2.50
17	1018.91	26.6	23.8	22.4	19.2	74.0	17.7	MISS	MISS	2.84	0.0	31.89	19.5	92			2.45	32.7	20.8	2.38	25.2	20.3	2.19
18	1018.44	33.0	24.1	23.4	21.4	84.0	20.7	MISS	MISS	0.00	0.0	15.06	5.5	402			4.14	33.5	20.7	3.83	31.1	21.1	3.03
19	1016.78	33.8	24.6	24.8	23.1	87.0	22.6	MISS	MISS	0.00	0.0	17.47	26.5	355			6.27	36.9	24.7	6.23	35.1	25.0	3.36
20	1016.11	33.1	24.2	25.0	23.9	91.0	23.0	MISS	MISS	0.00	0.0	24.08	17.0	422			4.02	35.6	24.7	3.36	33.5	24.7	2.39
21	1017.51	32.5	25.2	24.3	22.9	89.0	22.0	MISS	MISS	2.10	0.0	34.36	28.5	382			4.47	34.7	25.0	4.35	33.1	25.0	2.43
22	1017.58	31.7	23.6	25.9	24.4	88.0	23.7	MISS	MISS	0.00	0.0	22.76	19.4	233			2.75	37.5	24.5	2.48	30.5	24.1	1.93
23	1016.58	32.3	24.6	25.1	23.8	90.0	23.2	MISS	MISS	0.00	0.0	28.53	21.4	320			3.63	34.8	24.0	3.41	31.8	25.2	2.61
24	1016.04	33.4	25.0	26.3	24.6	87.0	24.0	MISS	MISS	0.00	0.0	30.61	24.0	471			5.87	36.7	25.0	4.55	34.1	25.0	3.05
25	1016.64	34.5	25.0	26.4	24.9	88.8	24.0	MISS	MISS	0.00	0.0	25.87	24.5	392			4.40	37.0	25.0	3.84	33.8	25.5	2.70
26	1016.24	30.5	25.0	24.9	24.1	94.0	23.7	MISS	MISS	0.00	0.0	31.96	35.5	243			4.79	33.5	25.0	3.63	31.6	25.0	2.06
27	1015.38	32.8	24.7	25.3	23.9	89.0	23.6	MISS	MISS	0.00	0.0	30.23	23.4	526			5.74	37.3	24.8	4.84	34.4	25.0	2.89
28	1015.84	33.9	24.8	25.4	24.3	91.0	23.7	MISS	MISS	0.00	0.0	34.34	30.4	404			5.19	35.5	25.0	4.51	33.6	25.0	2.46
SUM										29.13													
MEAN	1017.46	32.0	23.0	23.6	21.5	83.0	20.5	0.0		1.04		25.53	22.9	351			4.57	34.1	22.8	3.87	25.9	19.1	3.01

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -2.92 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -5.90 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 2 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY MARCH 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.		WIND		RADIATION			CLASS A PAN EVAPORATION OPEN PAN			SCREENED PAN			PICHE
		MAX	MIN	DRY	WET	0730 DEW. AM	POINT	MIN	TIME		MAX INT.	SURF. MAX KM/	GUST	TOT CAL /SQ	SUN. ACT	POS		MAX* DEG	MIN* DEG		MAX* DEG	MIN* DEG	
	MBS**	DEG C	DEG C	DEG C	DEG C	PER CENT	DEG C	PER CENT		MM	MM/HR	DAY	KPH	CM	HR	HR	MM	C	C	MM	C	C	MM
1	1014.78	32.8	25.2	26.9	25.1	86.8	24.7	MISS	MISS	0.00	0.0	34.24	21.5	457			5.09	36.9	24.8	3.73	34.7	24.1	2.70
2	1015.58	33.2	25.2	26.7	24.9	86.4	24.3	MISS	MISS	0.00	0.0	42.08	26.7	475			5.45	37.3	24.9	4.41	34.4	25.0	2.86
3	1015.84	32.7	25.1	26.5	24.4	84.0	24.0	MISS	MISS	0.00	0.0	40.70	32.0	479			5.44	36.8	24.7	5.92	34.1	25.0	2.89
4	1017.24	33.1	25.0	26.8	24.7	84.0	24.0	MISS	MISS	0.00	0.0	36.44	24.5	477			5.41	36.8	24.5	3.34	34.4	25.0	2.93
5	1017.91	33.1	25.4	25.8	24.3	88.0	23.6	MISS	MISS	0.00	0.0	36.25	26.5	445			6.94	37.7	25.5	7.47	35.5	25.8	2.60
6	1018.64	33.7	25.0	25.1	23.9	91.0	23.2	MISS	MISS	0.00	0.0	30.16	38.5	510			5.61	37.0	24.8	5.00	35.0	25.2	2.99
7	1018.78	33.7	24.8	24.3	23.6	94.0	23.0	MISS	MISS	0.00	0.0	30.33	26.8	490			5.50	36.5	24.5	4.82	34.1	25.2	3.44
8	1019.11	33.4	24.8	25.2	24.8	97.0	24.3	MISS	MISS	0.00	0.0	20.16	18.6	398			3.55	36.0	24.7	3.51	33.8	25.0	2.58
9	1019.64	33.6	26.0	25.2	24.0	91.0	23.3	MISS	MISS	0.00	0.0	20.94	18.0	277			4.58	33.6	25.4	3.25	33.0	25.5	2.25
10	1020.11	34.9	25.8	25.4	24.4	92.0	24.0	MISS	MISS	0.00	0.0	21.70	23.0	433			5.29	36.2	25.0	4.02	33.8	25.2	3.63
11	1019.58	35.0	26.2	25.4	24.2	91.0	23.7	MISS	MISS	0.00	0.0	24.05	31.8	455			5.61	36.2	25.5	5.07	33.8	25.2	4.20
12	1020.24	35.2	26.4	24.9	23.8	91.0	23.0	MISS	MISS	0.00	0.0	24.71	18.0	579			6.05	37.9	25.2	5.56	34.7	25.2	3.29
13	1020.91	35.1	24.4	24.7	20.9	71.0	19.0	MISS	MISS	0.00	0.0	26.20	30.0	233			5.58	35.1	24.4	3.67	33.0	24.7	4.10
14	1021.84	34.1	23.0	22.9	18.9	68.8	16.7	MISS	MISS	0.00	0.0	45.91	36.2	477		-	7.71	34.3	21.4	6.94	32.2	21.6	6.34
15	1022.24	32.9	22.1	22.4	18.2	66.8	15.7	MISS	MISS	0.00	0.0	49.38	42.5	473			7.41	33.5	20.0	7.34	31.1	20.5	5.96
16	1021.18	32.0	20.8	22.2	19.1	75.0	17.3	MISS	MISS	0.00	0.0	21.09	17.0	506			5.93	34.0	19.8	3.82	31.3	20.8	4.56
17	1020.51	33.8	21.7	25.5	22.8	80.0	22.0	MISS	MISS	0.00	0.0	13.80	18.0	416			4.87	34.5	21.5	4.18	32.7	21.6	4.03
18	1018.38	35.2	25.0	26.5	24.5	85.0	24.0	MISS	MISS	0.00	0.0	16.62	16.5	381			5.20	35.7	24.5	4.59	33.3	25.0	4.19
19	1016.51	35.2	25.9	27.7	25.2	82.0	24.3	MISS	MISS	0.00	0.0	38.75	28.0	345			6.17	36.8	25.9	5.86	35.0	26.1	2.56
20	1017.38	34.9	23.4	22.7	21.4	89.0	21.0	MISS	MISS	25.00	9.5	21.30	39.5	77			8.94	29.5	22.5	MISS	MISS	MISS	1.25
21	1017.44	35.1	22.7	25.3	23.8	88.0	23.0	MISS	MISS	0.00	0.0	17.32	17.8	322			3.69	38.0	22.5	MISS	MISS	MISS	1.74
22	1017.71	35.4	25.7	27.8	25.4	82.6	24.6	MISS	MISS	0.00	0.0	30.70	20.4	520			5.33	38.4	24.3	5.27	35.0	25.0	2.66
23	1016.44	33.1	25.4	26.3	24.8	88.6	24.0	MISS	MISS	0.00	0.0	31.80	22.0	475			5.75	37.6	25.2	5.11	35.2	23.8	2.66
24	1018.58	32.9	25.3	25.6	24.2	89.0	24.0	MISS	MISS	1.00	0.0	15.00	24.2	222			2.37	33.2	25.2	MISS	MISS	MISS	1.90
25	1019.04	30.7	24.0	25.0	24.8	98.0	25.0	MISS	MISS	0.00	0.0	9.35	11.8	110			1.66	29.7	23.5	1.61	30.0	23.8	1.14
26	1018.38	33.3	26.1	27.1	25.6	89.0	25.0	MISS	MISS	0.00	0.0	14.15	13.2	353			5.23	37.1	26.2	6.21	35.0	26.1	2.35
27	1018.38	32.9	26.5	26.9	25.3	88.0	24.7	MISS	MISS	0.00	0.0	28.57	21.8	357			4.48	35.2	26.1	3.94	33.3	25.9	2.33
28	1018.24	33.1	26.0	27.2	25.4	87.0	25.0	MISS	MISS	0.00	0.0	31.08	29.9	320			4.18	35.1	25.6	4.01	32.9	25.8	2.56
29	1018.04	32.8	25.9	25.4	24.7	94.0	24.0	MISS	MISS	0.00	0.0	34.40	40.5	459			5.09	37.1	25.6	4.09	34.1	25.2	2.66
30	1017.18	33.2	26.4	28.6	25.3	77.0	24.0	MISS	MISS	0.00	0.0	30.91	33.0	504			6.34	38.0	26.0	5.28	35.0	26.1	2.82
31	1017.91	33.4	25.8	28.1	25.9	84.0	25.2	MISS	MISS	0.00	0.0	41.58	32.0	522			6.18	38.2	26.0	5.02	35.2	26.3	3.04
SUM										26.00													
MEAN	1018.51	33.6	24.8	25.6	23.8	85.7	23.0	0.0		0.83		28.38	25.8	405			5.37	35.8	24.3	4.75	33.5	24.5	3.07

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.21 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.28 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 2 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY APRIL 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.		WIND		RADIATION			CLASS A PAN EVAPORATION OPEN PAN			SCREENED PAN			PICHE
		MAX	MIN	DRY	WET	0730 AM	DEW POINT	MIN	TIME		MAX INT.	SURF.	MAX GUST	TOT CAL	SUN. ACT	SUN. POS	MAX*	MIN*		MAX*	MIN*		
		DEG	DEG	DEG	DEG	PER	DEG	PER				KM/		/SQ			DEG	DEG		DEG	DEG		
	MBS**	C	C	C	C	CENT	C	CENT		MM	MM/HR	DAY	KPH	CM	HR	HR	C	C	MM	C	C	MM	MM
1	1015.98	33.7	26.3	28.3	26.2	85.0	25.6	MISS	MISS	0.00	0.0	45.27	28.0	535			38.7	25.8	6.37	36.1	25.8	6.33	3.49
2	1015.91	34.3	27.3	29.4	27.0	83.0	26.0	MISS	MISS	0.00	0.0	48.42	31.5	520			40.3	26.7	7.62	37.2	26.9	5.41	3.07
3	1017.44	34.1	26.6	28.8	25.7	78.0	24.6	MISS	MISS	0.00	0.0	47.31	29.0	496			38.7	26.3	5.90	35.8	26.5	5.25	3.30
4	1017.98	33.2	26.2	28.9	26.7	84.0	26.0	MISS	MISS	0.00	0.0	45.16	28.5	479			38.1	26.2	6.07	35.5	25.8	5.08	3.00
5	1016.24	34.4	26.2	28.3	25.9	83.0	25.0	MISS	MISS	0.00	0.0	52.50	36.0	375			38.2	25.7	5.97	35.2	26.3	5.64	3.12
6	1015.98	33.1	25.8	27.0	25.2	87.0	25.0	MISS	MISS	0.00	0.0	43.17	31.0	563			37.5	25.2	5.75	34.7	26.1	5.10	3.17
7	1015.91	33.4	26.0	26.4	25.2	91.0	24.7	MISS	MISS	0.00	0.0	39.33	30.8	459			37.7	25.4	5.15	35.0	25.5	4.71	2.69
8	1017.31	34.9	25.4	25.6	24.8	94.0	24.2	MISS	MISS	0.00	0.0	14.06	22.8	539			40.2	25.5	6.08	36.7	26.1	5.68	3.30
9	1018.31	34.4	25.7	27.4	25.3	84.8	24.7	MISS	MISS	0.00	0.0	37.10	26.1	508			38.8	26.8	6.58	35.9	25.8	5.50	3.17
10	1018.24	35.1	24.5	26.5	23.3	76.0	22.0	MISS	MISS	0.00	0.0	33.75	24.5	504			38.6	25.7	6.88	35.5	25.5	6.12	3.77
11	1017.51	35.3	25.5	28.3	26.8	89.0	26.0	MISS	MISS	0.00	0.0	21.38	20.4	420			37.0	25.8	5.00	35.0	25.7	3.90	3.19
12	1018.78	34.5	23.0	25.1	23.4	87.0	23.0	MISS	MISS	24.00	11.6	29.79	38.0	420			37.7	24.5	7.81	35.0	24.7	7.50	3.16
13	1017.78	34.2	23.5	25.5	24.0	88.0	23.0	MISS	MISS	0.00	0.0	22.16	29.0	520			38.2	25.0	6.02	35.2	25.0	4.69	3.01
14	1016.38	34.6	25.0	27.4	25.3	84.8	24.7	MISS	MISS	0.00	0.0	25.33	36.0	500			38.4	26.5	6.96	36.6	27.2	6.36	2.80
15	1016.71	34.7	24.4	27.5	25.3	84.0	24.0	MISS	MISS	0.00	0.0	26.29	50.0	510			38.3	26.3	5.76	35.8	26.6	5.79	3.00
16	1015.91	35.2	23.0	25.2	23.6	87.4	23.0	MISS	MISS	0.00	0.0	25.24	33.5	467			37.6	24.9	6.80	35.0	25.5	5.37	3.18
17	1016.98	34.8	23.8	29.3	26.7	82.0	25.6	MISS	MISS	0.00	0.0	31.41	25.5	549			38.0	25.0	6.08	35.5	25.2	4.93	3.33
18	1018.78	34.7	26.4	29.3	26.4	80.0	25.6	MISS	MISS	0.00	0.0	28.00	28.0	420			38.0	26.8	5.26	35.2	27.2	4.89	2.89
19	1017.64	35.1	24.5	26.4	24.7	87.0	24.0	MISS	MISS	0.00	0.0	15.37	18.9	300			35.7	26.5	4.28	33.5	26.9	3.73	2.36
20	1018.58	34.5	24.9	26.8	25.2	88.0	24.6	MISS	MISS	8.80	102.0	16.47	31.0	288			35.2	26.3	3.68	33.3	26.3	3.18	2.27
21	1018.31	33.8	23.0	25.4	23.7	87.0	23.0	MISS	MISS	10.30	45.0	17.28	47.2	361			37.0	24.5	4.41	34.4	24.4	4.16	2.26
22	1016.98	34.8	23.9	29.0	25.9	78.0	25.0	MISS	MISS	0.00	0.0	20.89	23.4	461			38.8	27.2	6.67	36.6	27.2	5.37	2.77
23	1015.78	35.2	27.0	29.6	27.4	84.2	27.0	MISS	MISS	0.00	0.0	30.43	24.2	565			38.7	27.2	6.71	36.6	27.2	6.19	3.76
24	1014.98	35.2	27.6	30.7	27.6	79.0	26.3	MISS	MISS	0.00	0.0	34.56	27.4	541			38.6	27.4	6.74	36.3	27.7	5.95	3.26
25	1013.51	35.4	27.7	30.9	28.5	83.8	27.7	MISS	MISS	2.23	15.0	24.74	39.0	398			36.7	27.6	4.36	34.2	27.6	3.52	3.06
26	1014.25	34.7	27.2	29.4	27.6	87.0	27.0	MISS	MISS	0.00	0.0	26.80	25.0	447			37.8	27.3	5.82	36.1	27.7	5.05	2.86
27	1015.18	34.3	23.5	28.1	25.0	78.0	24.0	MISS	MISS	0.00	0.0	21.20	31.0	192			35.5	24.0	3.52	32.2	24.1	3.18	2.57
28	1015.91	34.1	25.8	26.9	24.7	84.0	23.7	MISS	MISS	0.00	0.0	19.66	24.0	337			36.5	26.5	5.59	34.7	26.6	4.09	2.84
29	1014.78	30.2	25.2	29.0	26.6	83.0	26.0	MISS	MISS	T	0.0	9.42	20.5	114			30.2	25.5	1.00	28.6	25.2	1.47	1.39
30	1013.31	34.5	26.7	29.0	26.3	81.0	25.0	MISS	MISS	0.00	0.0	20.15	18.0	396			36.3	26.6	4.87	33.8	26.1	3.98	2.81
SUM										45.32													
MEAN	1016.58	34.3	25.3	27.8	25.6	84.2	24.8	0.0		1.51		29.09	29.2	439			37.5	26.0	5.66	35.0	26.1	4.94	2.96

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.46 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.62 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 4 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY MAY 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.		WIND			RADIATION			CLASS A PAN EVAPORATION						PICHE
						0730					MAX	SURF.	MAX	TOT	SUN.			OPEN PAN			SCREENED PAN			
		MAX	MIN	DRY	WET	AM	DEW POINT	MIN	TIME		INT.		GUST	CAL	ACT	POS		MAX*	MIN*		MAX*	MIN*		
		DEG	DEG	DEG	DEG	PER	DEG	PER				KM/		/SQ				DEG	DEG		DEG	DEG		
	MBS**	C	C	C	C	CENT	C	CENT		MM	MM/HR	DAY	KPH	CM	HR	HR	MM	C	C	MM	C	C	MM
1	1013.78	36.5	24.2	28.5	26.0	82.0	25.0	MISS	MISS	4.80	0.0	23.17	46.5	449			5.35	38.3	25.2	4.95	36.1	25.5	2.98
2	1011.85	35.8	26.4	28.0	26.2	87.0	26.0	MISS	MISS	0.00	0.0	23.56	23.0	567			6.86	39.5	27.3	5.46	36.1	26.3	3.56
3	1012.71	35.2	24.8	28.0	25.7	83.0	25.0	MISS	MISS	0.00	0.0	20.53	19.2	406			5.45	37.8	26.4	4.58	35.0	26.1	2.82
4	1013.25	33.9	25.3	26.3	25.6	95.0	25.6	MISS	MISS	17.00	114.0	27.24	23.5	453			6.18	37.5	26.7	5.52	35.2	26.3	2.89
5	1015.18	34.4	24.0	26.2	24.9	90.0	24.3	MISS	MISS	15.63	108.0	30.64	33.8	422			6.01	37.2	26.2	5.42	33.8	25.8	2.43
6	1016.24	33.2	24.4	27.1	25.8	90.0	25.2	MISS	MISS	3.28	63.0	18.54	25.5	351			3.87	36.6	26.0	3.35	32.5	25.8	2.10
7	1017.58	31.8	24.0	25.6	24.5	91.0	24.0	MISS	MISS	5.31	69.0	7.44	44.4	179			2.65	35.2	25.7	3.29	32.7	25.5	1.33
8	1019.44	33.8	24.5	28.8	26.6	84.0	26.0	MISS	MISS	T	0.0	20.91	24.0	459			4.41	36.2	25.5	3.62	34.1	25.2	2.53
9	1018.78	35.1	25.5	29.2	26.9	84.0	26.0	MISS	MISS	0.00	0.0	17.27	17.5	447			5.86	37.0	27.2	4.48	35.0	26.9	3.20
10	1015.84	34.8	26.3	27.6	25.3	83.0	24.2	MISS	MISS	0.00	0.0	12.75	20.4	306			4.17	35.5	26.7	3.52	33.3	26.1	2.89
11	1014.25	36.2	26.1	28.5	25.5	79.0	24.0	MISS	MISS	0.00	0.0	31.01	20.8	526			6.86	29.0	26.5	5.69	36.1	26.6	3.75
12	1014.44	35.9	27.1	30.0	26.5	76.0	25.0	MISS	MISS	0.00	0.0	28.49	22.3	569			7.84	39.5	27.5	6.42	36.9	27.5	3.98
13	1016.11	36.7	25.1	25.7	24.5	91.0	24.0	MISS	MISS	1.80	0.0	27.91	25.5	547			7.15	40.0	27.3	5.59	37.2	27.5	3.53
14	1016.18	34.7	24.8	27.6	25.6	85.0	25.0	MISS	MISS	0.00	0.0	21.83	23.5	471			4.77	38.8	26.7	5.00	36.1	26.8	3.00
15	1015.18	34.9	26.3	31.2	28.4	81.0	27.3	MISS	MISS	0.00	0.0	28.73	25.0	486			7.23	38.8	27.5	6.08	36.6	28.0	1.88
16	1013.51	35.5	25.5	29.0	26.7	84.0	26.0	MISS	MISS	0.00	0.0	28.38	23.0	447			6.89	37.8	27.2	5.77	35.0	27.2	3.02
17	1013.25	34.9	23.6	26.2	24.8	89.0	24.3	MISS	MISS	1.77	0.0	32.80	52.0	406			4.34	38.7	25.5	4.57	35.7	25.8	2.68
18	1013.64	33.6	25.9	28.2	24.9	76.4	23.3	MISS	MISS	0.00	0.0	20.74	29.0	304			3.99	35.0	25.8	3.26	32.2	25.5	2.57
19	1013.31	35.2	24.7	25.9	24.8	91.0	24.0	MISS	MISS	10.43	64.5	33.71	28.0	524			6.82	38.4	25.5	6.18	36.1	25.6	3.29
20	1012.98	33.8	25.0	27.0	24.8	84.0	24.0	MISS	MISS	0.00	0.0	18.21	42.8	326			4.47	35.1	25.2	3.23	33.3	25.5	2.12
21	1012.38	32.7	24.3	26.4	25.5	93.0	25.0	MISS	MISS	18.60	69.1	16.52	30.8	561			3.44	36.2	25.5	3.93	32.7	25.5	2.03
22	1012.98	31.2	26.0	29.6	25.9	75.0	24.2	MISS	MISS	2.69	62.0	26.81	35.5	259			4.51	32.6	25.8	3.21	30.2	25.5	2.10
23	1014.25	32.4	26.0	29.5	26.8	81.0	26.0	MISS	MISS	6.59	79.5	40.03	42.0	133			5.36	35.9	26.8	4.56	33.8	26.1	2.45
24	1014.31	33.1	25.9	29.5	27.0	82.0	26.0	MISS	MISS	11.25	40.5	32.79	33.0	461			5.71	36.5	26.8	3.93	33.8	26.9	2.56
25	1012.58	33.5	27.1	29.2	26.9	84.0	26.0	MISS	MISS	0.00	0.0	24.81	22.5	436			5.59	37.6	27.8	4.77	34.4	27.2	2.89
26	1012.11	34.0	25.7	28.1	26.8	90.0	26.2	MISS	MISS	14.40	64.0	11.77	16.0	300			4.75	36.5	27.0	3.82	33.4	26.9	2.01
27	1012.51	32.7	25.6	28.0	26.2	87.0	26.0	MISS	MISS	1.90	20.0	11.71	41.0	275			3.03	35.0	27.0	1.96	32.2	26.9	1.61
28	1013.18	32.6	25.4	29.0	26.5	82.0	26.0	MISS	MISS	4.66	60.0	9.83	24.0	257			3.28	35.2	26.8	3.86	32.2	26.9	1.73
29	1013.31	32.8	26.4	28.9	26.8	85.0	26.0	MISS	MISS	0.00	0.0	14.69	17.0	332			4.67	37.5	27.5	3.93	34.1	27.5	2.01
30	1014.64	32.2	25.4	26.4	25.5	93.0	25.0	MISS	MISS	1.45	0.0	20.89	28.5	227			2.79	35.7	26.3	2.95	31.6	26.1	1.57
31	1015.04	31.5	25.8	27.7	26.5	91.0	26.0	MISS	MISS	1.18	0.0	18.51	25.2	241			2.58	33.2	26.0	2.12	30.5	25.2	1.36
SUM										122.73													
MEAN	1014.35	34.0	25.3	27.9	25.9	85.4	25.1	0.0		3.95		22.65	28.5	391			5.09	36.5	26.4	4.35	34.1	26.3	2.54

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.49 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.65 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 110 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY JUNE 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.		WIND		RADIATION			CLASS A PAN EVAPORATION						PICHE
						0730 DEW					MAX	SURF.	MAX	TOT	SUN.		OPEN PAN			SCREENED PAN			
		MAX	MIN	DRY	WET	AM POINT		MIN	TIME		INT.		GUST	CAL	ACT	POS	MAX*	MIN*		MAX*	MIN*		
		DEG	DEG	DEG	DEG	PER	DEG	PER				KM/		/SQ			DEG	DEG		DEG	DEG		
	MBS**	C	C	C	C	CENT	C	CENT		MM	MM/HR	DAY	KPH	CM	HR	HR	MM	C	C	MM	C	C	MM
1	1015.11	31.8	24.8	26.6	26.0	95.0	26.0	MISS	MISS	64.59	150.0	22.08	24.8	235			OVER	33.2	25.7	OVER	30.8	24.1	1.95
2	1014.18	32.3	25.8	28.5	26.9	88.0	26.0	MISS	MISS	11.20	68.0	12.32	23.5	247			3.29	38.5	26.0	2.65	30.8	25.5	1.56
3	1015.24	33.5	27.1	30.5	27.2	78.0	26.0	MISS	MISS	0.00	0.0	26.00	19.2	547			6.72	38.7	27.0	5.60	30.5	26.5	3.19
4	1014.98	34.3	25.4	29.6	27.1	82.2	26.2	MISS	MISS	5.80	0.0	25.89	55.5	447			6.67	39.3	26.5	4.72	35.7	26.3	2.62
5	1016.11	33.2	26.7	30.1	26.9	78.0	26.0	MISS	MISS	0.00	0.0	30.43	31.4	435			6.46	36.8	27.2	5.62	34.7	26.6	3.13
6	1015.04	33.9	26.9	28.7	25.3	76.0	24.0	MISS	MISS	0.00	0.0	31.26	30.2	414			5.98	36.8	26.4	4.96	34.6	26.6	3.11
7	1015.11	33.1	26.7	28.4	25.8	81.0	24.7	MISS	MISS	14.40	45.0	20.84	27.0	257			3.49	33.7	26.4	3.23	31.6	26.3	2.10
8	1015.78	33.2	26.4	27.1	24.5	81.0	23.2	MISS	MISS	2.46	0.0	18.13	22.8	290			3.88	35.3	26.6	3.20	32.2	26.6	2.46
9	1015.64	31.7	25.2	28.1	25.2	79.0	24.2	MISS	MISS	0.00	0.0	20.51	28.8	220			2.82	33.4	25.4	2.25	30.9	25.4	2.13
10	1015.64	31.6	25.1	27.8	25.3	82.0	24.6	MISS	MISS	0.00	0.0	37.19	40.8	320			4.71	33.5	25.5	4.02	30.9	25.4	3.03
11	1013.64	31.6	26.3	27.0	24.8	84.0	24.0	MISS	MISS	0.00	0.0	32.12	49.0	316			4.44	33.5	25.5	4.05	30.9	25.5	2.70
12	1013.44	31.8	24.8	27.7	25.2	82.0	24.3	MISS	MISS	0.00	0.0	38.62	38.0	329			6.10	35.2	25.5	5.72	33.0	25.2	2.59
13	1015.11	32.6	25.4	29.6	25.6	73.0	24.2	MISS	MISS	7.73	37.0	21.95	16.0	320			3.95	35.2	25.7	3.19	31.5	25.8	2.03
14	1013.84	34.2	26.3	28.0	24.7	76.0	23.0	MISS	MISS	0.00	0.0	22.51	15.0	467			6.05	33.2	26.8	4.83	35.2	26.1	3.26
15	1011.91	34.1	24.8	27.9	25.6	83.0	24.7	MISS	MISS	8.99	0.0	33.85	40.6	453			5.54	37.2	25.9	5.08	34.1	25.5	2.53
16	1011.58	34.6	25.0	27.4	24.8	81.0	23.7	MISS	MISS	2.38	0.0	36.35	38.2	520			6.58	37.7	26.2	5.22	35.0	26.1	2.99
17	1011.11	33.9	25.2	26.5	24.8	87.0	24.0	MISS	MISS	4.36	20.0	36.44	40.0	375			4.95	36.4	25.8	4.48	33.6	25.8	2.72
18	1011.91	33.9	25.1	27.9	24.4	75.0	23.0	MISS	MISS	0.00	0.0	24.73	40.0	239			3.22	37.0	25.5	2.56	30.0	25.5	2.59
19	1012.31	32.6	25.9	28.0	24.7	76.0	23.0	MISS	MISS	0.00	0.0	34.18	36.0	369			6.55	35.4	25.8	4.90	33.3	25.8	3.16
20	1011.51	32.7	25.9	28.9	25.2	74.0	23.7	MISS	MISS	T	0.0	31.81	25.5	355			5.34	34.5	25.5	4.48	32.2	25.2	3.30
21	1012.05	33.3	25.7	28.0	24.7	76.0	23.0	MISS	MISS	0.00	0.0	30.34	29.0	343			4.98	34.8	25.6	4.49	32.7	25.8	3.16
22	1013.51	32.6	25.8	28.4	24.9	75.0	23.7	MISS	MISS	11.87	99.0	13.63	44.0	306			4.00	35.2	25.9	3.20	32.5	25.9	2.19
23	1013.78	31.3	25.6	28.2	25.0	77.0	24.0	MISS	MISS	0.00	0.0	17.62	18.8	198			2.94	31.7	26.2	2.57	30.1	26.1	2.33
24	1013.91	31.2	25.4	27.9	25.1	80.0	24.0	MISS	MISS	0.65	0.0	15.32	16.7	218			2.48	32.9	25.9	2.58	30.5	26.3	1.92
25	1013.84	31.8	25.6	27.5	25.4	85.0	25.0	MISS	MISS	0.60	0.0	14.41	19.8	182			2.50	31.7	26.3	1.81	30.0	26.1	1.93
26	1012.58	32.4	24.4	29.0	26.0	79.0	25.0	MISS	MISS	11.10	88.0	12.36	26.0	233			4.54	35.2	25.6	5.15	32.7	25.5	1.41
27	1012.78	33.7	25.9	28.7	25.3	76.0	24.0	MISS	MISS	1.96	0.0	26.00	21.0	447			5.68	36.8	26.7	4.98	33.6	26.9	2.80
28	1011.65	33.4	25.4	27.8	24.5	76.0	23.0	MISS	MISS	0.00	0.0	19.71	24.0	377			5.47	37.0	26.1	4.49	33.8	26.3	2.53
29	1012.11	33.6	25.2	28.1	25.0	78.0	24.0	MISS	MISS	0.00	0.0	31.88	22.3	451			6.04	37.6	25.3	5.14	34.4	26.3	3.22
30	1014.04	32.6	25.8	28.3	25.2	78.0	24.0	MISS	MISS	0.00	0.0	31.48	26.0	461			5.81	36.9	26.0	4.68	33.6	26.1	2.66
SUM										148.08													
MEAN	1013.65	32.8	25.6	28.2	25.3	79.7	24.2	0.0		4.93		25.67	29.6	346			4.87	35.4	26.0	4.13	32.5	25.9	2.58

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.50 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.66 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 140 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY JULY 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.		WIND		RADIATION			CLASS A PAN EVAPORATION			SCREENED PAN			PICHE
		MAX	MIN	DRY	WET	0730 AM	DEW POINT	MIN	TIME		MAX INT.	SURF. KM/ DAY	MAX GUST KPH	TOT CAL /SQ CM	ACT SUN. HR	POS HR	OPEN PAN MM	MAX* DEG C	MIN* DEG C	SCREENED PAN MM	MAX* DEG C	MIN* DEG C	MM
	MBS**	DEG C	DEG C	DEG C	DEG C	PER CENT	DEG C	PER CENT		MM	MM/HR												
1	1015.11	32.2	26.9	29.3	26.8	82.0	26.0	MISS	MISS	0.00	0.0	36.30	23.6	402			5.36	36.5	26.5	4.29	32.5	26.5	2.83
2	1014.71	33.3	26.3	27.8	24.9	79.0	23.6	MISS	MISS	0.00	0.0	24.41	20.4	347			5.00	36.6	26.2	4.13	33.3	26.4	2.65
3	1012.98	32.2	24.9	27.3	24.9	82.0	24.0	MISS	MISS	0.27	0.0	18.20	26.2	316			4.40	35.5	25.7	3.72	31.6	26.1	2.52
4	1013.05	33.8	24.3	25.9	25.0	93.0	24.7	MISS	MISS	20.88	194.0	23.81	25.0	345			5.28	37.0	24.8	4.55	33.4	24.4	2.18
5	1012.78	32.5	23.7	26.5	24.4	84.0	24.0	MISS	MISS	48.63	102.0	26.81	41.5	365			OVER	35.6	24.2	OVER	32.7	24.4	1.73
6	1012.44	33.1	25.9	27.2	24.7	82.0	24.0	MISS	MISS	0.00	0.0	23.04	20.4	463			5.27	37.6	25.2	4.18	34.4	25.2	2.55
7	1010.45	32.7	25.2	27.4	24.5	79.0	23.0	MISS	MISS	11.15	184.0	19.14	48.5	353			4.80	36.4	25.4	4.46	33.0	26.1	1.99
8	1010.65	31.9	25.0	27.8	24.9	79.0	23.6	MISS	MISS	0.00	0.0	26.82	31.5	369			5.32	35.5	25.8	3.90	32.2	26.1	2.39
9	1012.44	31.5	26.0	27.7	25.0	80.4	24.0	MISS	MISS	0.47	0.0	27.83	33.8	255			3.31	33.9	25.0	2.99	31.2	25.5	1.93
10	1013.84	32.2	25.2	28.8	25.6	77.6	24.6	MISS	MISS	0.00	0.0	35.57	34.6	422			6.19	37.7	26.0	4.98	34.7	26.3	2.38
11	1014.84	33.1	25.1	29.2	25.2	72.4	23.3	MISS	MISS	0.00	0.0	16.04	40.0	304			4.20	35.8	25.6	3.72	32.5	26.1	2.15
12	1012.11	33.8	26.0	28.8	24.8	72.0	23.0	MISS	MISS	6.32	44.0	26.92	31.0	502			6.55	38.2	26.0	5.06	35.0	26.1	2.88
13	1008.91	32.5	25.2	26.4	24.0	82.0	23.0	MISS	MISS	4.81	64.0	44.89	47.0	371			5.65	35.0	25.0	4.47	32.2	25.0	3.12
14	1011.18	32.2	25.8	28.1	24.8	76.2	23.2	MISS	MISS	0.00	0.0	29.63	29.8	349			4.41	35.0	25.0	3.94	32.2	24.7	2.72
15	1016.04	30.5	24.6	27.7	26.2	89.0	25.3	MISS	MISS	4.38	0.0	16.01	30.2	108			0.84	31.1	25.0	1.43	29.1	24.8	1.13
16	1015.18	32.6	25.8	27.8	24.4	76.0	23.0	MISS	MISS	0.00	0.0	21.36	20.8	322			4.97	35.8	25.2	3.35	32.3	25.4	1.40
17	1012.91	33.2	25.8	27.4	24.9	82.0	24.0	MISS	MISS	0.00	0.0	39.15	29.4	349			6.66	36.7	25.5	5.61	34.4	25.4	3.05
18	1011.91	31.5	26.0	27.6	24.2	76.0	23.0	MISS	MISS	0.00	0.0	23.06	27.5	202			2.01	32.3	25.7	1.91	30.2	25.3	2.14
19	1012.91	30.6	24.9	27.5	25.2	83.0	24.0	MISS	MISS	3.10	0.0	24.57	52.0	194			2.86	30.9	24.7	2.54	29.1	24.8	2.03
20	1014.98	32.6	24.4	27.1	24.3	79.2	23.2	MISS	MISS	4.89	96.0	24.68	27.5	298			3.26	34.1	25.2	2.84	32.7	25.2	1.50
21	1014.91	29.3	24.0	25.7	24.6	91.0	24.0	MISS	MISS	2.00	53.0	18.17	31.0	206			2.48	30.1	24.9	1.93	28.8	24.7	1.51
22	1012.98	31.8	25.6	28.9	25.2	74.0	23.7	MISS	MISS	T	0.0	15.19	31.5	284			3.07	32.8	25.5	2.13	31.6	25.4	2.19
23	1010.91	33.8	24.8	24.8	24.1	94.0	23.6	MISS	MISS	3.18	0.0	30.51	43.0	355			4.33	35.2	25.8	4.18	33.6	25.5	3.35
24	1010.71	28.9	24.9	27.0	24.5	82.0	24.0	MISS	MISS	0.25	0.0	35.58	38.8	237			4.02	31.2	24.7	2.99	29.1	25.0	1.96
25	1014.91	29.2	24.7	26.7	25.0	87.0	24.3	MISS	MISS	0.33	0.0	22.62	29.6	137			0.95	29.0	24.2	0.92	27.5	24.4	1.50
26	1014.58	31.9	24.7	27.2	24.9	83.0	24.0	MISS	MISS	1.67	0.0	19.41	32.0	275			2.47	34.1	24.8	2.64	32.2	24.7	2.73
27	1013.51	32.1	26.1	28.1	26.4	88.0	26.0	MISS	MISS	1.19	0.0	19.33	26.3	335			3.41	34.6	26.0	2.94	32.5	25.8	2.13
28	1012.71	32.6	23.4	27.1	25.4	87.0	25.0	MISS	MISS	49.33	154.0	20.43	50.3	296			OVER	36.3	25.0	OVER	33.8	25.0	1.65
29	1015.78	31.9	25.3	27.8	25.7	85.0	25.0	MISS	MISS	0.00	0.0	19.88	27.6	322			3.34	34.1	25.3	2.66	32.1	24.9	2.00
30	1018.64	32.9	24.7	27.9	24.8	78.0	23.7	MISS	MISS	0.00	0.0	25.23	26.5	453			6.28	38.6	26.2	5.72	36.2	25.6	2.40
31	1017.18	33.2	25.5	28.6	25.5	78.0	24.2	MISS	MISS	0.00	0.0	23.37	26.3	506			6.79	38.2	25.4	5.23	35.0	25.5	3.03
SUM										162.84													
MEAN	1013.43	32.1	25.1	27.5	24.9	81.7	24.0	0.0		5.25		25.10	32.3	324			4.26	34.8	25.3	3.57	32.3	25.4	2.25

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.40 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.53 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 158 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY AUGUST 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.	MAX INT.	WIND SURF. MAX GUST KM/DAY		RADIATION TOT CAL /SQ CM	SUN. ACT POS HR HR	CLASS A PAN EVAPORATION OPEN PAN MAX* DEG C	OPEN PAN MIN* DEG C	SCREENED PAN MAX* DEG C	SCREENED PAN MIN* DEG C	PICHE
	MBS**	MAX DEG C	MIN DEG C	DRY DEG C	WET DEG C	0730 AM PER CENT	DEW POINT DEG C	MIN PER CENT	TIME	MM	MM/HR	KPH				MM		MM		MM
1	1015.91	34.7	25.0	27.2	23.9	76.0	22.3	MISS	MISS	0.00	0.0	36.76	30.2	485		7.82	38.0	25.0	6.04	35.1	24.7	3.69
2	1017.18	32.8	24.9	27.7	24.1	74.0	22.3	MISS	MISS	0.00	0.0	43.02	35.8	428		4.98	35.2	24.8	4.91	32.5	24.7	3.64
3	1016.11	34.1	25.6	28.1	24.6	75.0	23.2	MISS	MISS	0.00	0.0	32.29	28.7	518		7.51	38.2	25.2	5.85	35.0	25.0	3.65
4	1014.38	34.5	25.8	28.7	25.2	75.4	24.0	MISS	MISS	0.00	0.0	39.22	31.5	532		7.40	38.6	25.4	6.72	35.8	25.5	4.10
5	1012.44	34.5	25.3	28.7	25.3	76.0	24.0	MISS	MISS	0.00	0.0	33.70	41.3	484		6.39	36.5	24.5	5.86	35.2	24.8	3.51
6	1013.11	33.8	25.7	27.1	24.0	77.2	23.0	MISS	MISS	0.00	0.0	35.06	44.1	422		6.12	36.9	25.8	6.01	34.5	26.1	3.09
7	1014.25	31.5	24.1	26.5	25.0	89.0	24.0	MISS	MISS	24.27	92.0	25.39	52.5	247		2.93	32.5	24.5	MISS	MISS	MISS	1.99
8	1014.25	30.9	25.2	27.2	25.2	85.0	24.3	MISS	MISS	1.00	0.0	11.00	21.5	182		3.88	30.8	25.0	2.33	30.2	25.0	1.40
9	1011.91	31.3	24.8	27.2	24.9	83.0	24.0	MISS	MISS	0.00	0.0	14.08	19.6	255		3.84	33.0	25.3	2.45	30.7	25.6	2.07
10	1011.65	32.4	25.6	27.8	24.9	79.0	23.6	MISS	MISS	0.00	0.0	18.89	28.0	281		3.25	34.4	25.6	3.02	32.7	26.1	2.54
11	1012.84	31.5	25.8	28.0	25.1	79.0	24.0	MISS	MISS	T	0.0	11.27	17.5	163		2.57	31.1	25.4	2.33	30.1	25.5	2.06
12	1013.25	33.8	25.0	27.0	25.5	89.0	25.0	MISS	MISS	4.28	0.0	20.22	22.4	367		5.17	37.2	25.8	3.79	34.1	26.1	2.48
13	1012.38	33.3	25.4	27.2	24.9	83.0	24.0	MISS	MISS	0.93	0.0	19.25	23.5	306		3.87	36.2	26.0	3.83	33.5	26.3	2.41
14	1014.71	32.1	24.6	27.5	26.0	89.0	25.0	MISS	MISS	4.60	0.0	18.68	37.0	275		3.09	35.6	24.8	2.91	32.7	25.3	1.79
15	1015.84	32.3	25.6	26.4	25.7	95.0	25.7	MISS	MISS	0.00	0.0	20.53	25.2	577		4.33	36.2	25.3	3.48	33.6	25.5	2.03
16	1015.64	33.1	26.1	28.9	26.4	82.0	25.7	MISS	MISS	0.00	0.0	16.29	32.2	253		5.48	38.0	26.2	4.51	35.2	26.5	2.34
17	1014.58	33.7	24.3	27.0	24.9	84.0	24.0	MISS	MISS	1.61	0.0	19.89	22.5	426		5.79	39.0	25.0	5.18	35.2	25.3	2.20
18	1014.53	32.5	23.8	27.9	25.7	84.0	24.7	MISS	MISS	21.75	76.0	11.29	27.0	310		5.88	37.2	25.7	OVER	34.1	25.8	1.92
19	1015.11	33.2	24.9	27.2	25.2	85.0	24.3	MISS	MISS	0.92	0.0	12.16	21.0	377		4.45	37.3	26.0	4.44	33.8	26.3	2.09
20	1015.64	31.6	25.2	27.0	25.4	88.0	25.0	MISS	MISS	0.00	0.0	11.79	19.0	214		3.43	33.0	25.7	2.27	30.2	25.7	1.78
21	1014.91	30.6	23.8	25.1	24.0	91.0	23.2	MISS	MISS	60.35	106.0	9.66	25.0	214		OVER	33.3	24.5	OVER	30.1	24.4	1.40
22	1014.91	31.2	24.4	25.9	24.7	91.0	24.0	MISS	MISS	23.15	36.0	8.82	17.2	284		2.83	34.3	24.5	2.17	31.6	24.4	1.18
23	1015.44	27.9	24.4	27.5	25.6	86.0	25.0	MISS	MISS	16.11	89.0	7.67	17.2	108		1.19	28.5	24.0	1.52	27.2	24.4	0.70
24	1017.31	32.8	24.3	26.8	25.2	88.0	24.6	MISS	MISS	6.58	0.0	9.24	36.0	322		3.40	35.5	25.3	2.63	33.3	25.3	1.79
25	1015.31	32.8	24.4	26.5	24.7	86.0	24.0	MISS	MISS	0.00	0.0	15.77	25.0	367		4.63	36.5	25.3	3.96	33.8	25.5	2.70
26	1015.91	31.3	24.6	28.1	25.1	79.0	24.0	MISS	MISS	0.78	0.0	9.45	14.4	282		3.29	33.6	25.6	2.89	31.6	25.5	2.04
27	1016.91	32.4	24.4	25.9	24.6	90.0	24.0	MISS	MISS	75.24	106.0	15.47	31.0	298		OVER	35.5	24.0	OVER	33.8	24.4	1.87
28	1016.18	31.5	24.4	25.5	24.0	88.0	23.0	MISS	MISS	11.21	0.0	31.01	22.2	318		5.23	35.2	24.7	4.23	34.1	24.7	1.91
29	1015.44	32.1	24.2	25.1	24.1	92.0	24.0	MISS	MISS	20.79	0.0	23.12	16.7	275		OVER	33.8	25.0	OVER	34.4	24.7	1.60
30	1014.18	30.7	24.5	26.7	24.4	83.0	23.3	MISS	MISS	0.00	0.0	16.41	20.0	222		2.61	33.7	24.8	1.91	31.9	25.0	1.70
31	1014.84	32.5	24.2	28.1	24.4	74.0	23.0	MISS	MISS	7.47	0.0	20.42	23.0	371		4.69	36.2	25.2	3.44	33.8	25.2	2.36
SUM										281.03												
MEAN	1014.74	32.3	24.8	27.1	24.9	83.7	24.0	0.0		9.06		19.93	26.7	328		4.50	35.1	25.1	3.79	32.9	25.3	2.26

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.33 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.44 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 277 MM

REMARKS

SURFACE WEATHER OBSERVATIONS FOR HYDROLOGICAL METEOROLOGY SEPTEMBER 1971

STATION ASIAN INSTITUTE OF TECHNOLOGY, HENRI DUNANT STREET, BANGKOK
LATITUDE 13 DEG 45 SEC N. LONGITUDE 100 DEG 37 SEC E. ELEVATION 3 M ABOVE M.S.L.

DATE	PRES.	TEMPERATURE				RELATIVE HUMIDITY				PRECIP.		WIND		RADIATION			CLASS A PAN EVAPORATION						PICHE
		MAX	MIN	DRY	WET	0730 DEW AM POINT		MIN	TIME		MAX INT.	SURF. MAX GUST		TOT CAL	SUN. ACT POS		OPEN PAN MAX*	OPEN PAN MIN*		SCREENED PAN MAX*	SCREENED PAN MIN*		
	MBS**	DEG C	DEG C	DEG C	DEG C	PER CENT	DEG C	PER CENT		MM	MM/HR	KM/ DAY	KPH	/SQ CM	HR	HR	DEG C	DEG C	MM	DEG C	DEG C	MM	MM
1	1015.71	32.1	25.5	27.3	25.2	84.6	24.6	MISS	MISS	0.00	0.0	13.34	19.0	339			35.6	25.8	3.99	33.3	25.8	2.42	
2	1016.58	31.9	25.1	27.1	26.2	93.0	26.0	MISS	MISS	6.35	0.0	10.02	33.8	188			33.5	25.0	2.47	31.6	25.4	1.69	
3	1016.98	33.3	25.2	27.8	25.0	80.0	24.0	MISS	MISS	0.00	0.0	12.19	18.0	306			36.8	26.4	3.97	34.4	26.5	2.35	
4	1018.11	31.8	24.3	26.3	25.0	90.0	24.6	MISS	MISS	6.60	40.0	12.12	32.2	269			34.8	25.4	2.05	32.2	25.3	1.76	
5	1017.44	MISS	MISS	27.1	25.2	86.0	24.2	MISS	MISS	0.00	0.0	9.25	37.0	292			MISS	MISS	MISS	MISS	MISS	MISS	2.46
6	1017.91	33.8	25.7	27.0	25.0	85.0	24.0	MISS	MISS	0.00	0.0	26.91	39.7	485			MISS	MISS	MISS	MISS	MISS	MISS	2.45
7	1014.64	33.2	26.7	27.7	24.7	78.4	23.3	MISS	MISS	0.00	0.0	13.22	16.6	318			36.7	26.2	3.69	33.6	26.6	2.72	
8	1013.91	33.6	24.5	26.3	25.1	91.0	24.6	MISS	MISS	24.75	102.0	21.27	33.0	410			37.5	25.5	4.21	35.0	26.3	2.38	
9	1016.71	31.2	25.1	28.5	26.1	83.0	25.0	MISS	MISS	0.55	0.0	4.70	5.0	129			31.1	25.4	1.18	29.5	25.4	1.16	
10	1016.98	32.8	25.5	27.8	25.0	80.0	24.0	MISS	MISS	0.00	0.0	8.02	6.3	253			36.2	26.4	3.63	33.8	26.5	2.13	
11	1014.98	34.1	26.0	28.4	25.1	76.8	23.7	MISS	MISS	0.00	0.0	21.39	18.0	492			38.6	26.0	5.41	35.8	25.8	3.40	
12	1013.38	34.5	26.0	28.4	24.9	75.0	23.7	MISS	MISS	0.00	0.0	29.08	31.2	494			38.4	25.8	5.53	35.5	26.1	3.50	
13	1013.25	34.2	26.0	28.0	24.1	73.0	23.0	MISS	MISS	0.00	0.0	26.02	30.2	490			38.2	25.8	4.85	35.5	26.3	3.31	
14	1013.91	34.7	27.1	28.6	25.7	79.2	25.0	MISS	MISS	0.00	0.0	20.50	20.8	477			38.2	25.6	5.31	35.8	26.1	3.25	
15	1014.04	34.5	26.3	27.9	26.1	87.0	25.7	MISS	MISS	32.35	144.0	10.85	31.2	324			37.3	26.5	5.38	33.8	26.9	2.11	
16	1012.91	32.3	24.0	27.4	25.4	85.0	24.7	MISS	MISS	76.40	190.0	7.35	26.2	208			OVER	31.8	25.0	OVER	30.5	25.0	1.46
17	1010.98	32.2	24.4	26.8	25.9	93.0	25.6	MISS	MISS	34.00	102.0	13.49	36.0	214			36.2	25.0	4.16	33.6	25.2	1.22	
18	1011.78	32.1	24.8	28.4	26.1	83.0	25.0	MISS	MISS	48.60	100.0	10.12	29.2	235			34.7	25.2	6.28	31.3	25.2	0.98	
19	1013.11	31.5	24.9	26.4	25.1	90.0	24.7	MISS	MISS	45.15	174.0	7.03	28.0	220			33.7	25.5	5.98	31.3	25.8	1.20	
20	1012.18	32.1	26.0	27.6	25.9	87.2	25.2	MISS	MISS	0.00	0.0	10.46	7.3	302			35.5	25.5	2.04	33.3	25.5	1.43	
21	1013.58	32.3	25.8	29.6	26.5	78.2	25.2	MISS	MISS	0.00	0.0	22.25	28.5	716			38.3	26.2	5.00	29.7	24.1	3.07	
22	1014.64	32.8	26.1	28.5	26.1	83.0	25.0	MISS	MISS	0.00	0.0	19.37	7.0	273			37.1	26.8	5.33	35.5	26.6	2.90	
23	1014.38	33.1	25.8	26.8	25.8	92.0	25.6	MISS	MISS	29.65	84.0	19.85	23.5	386			36.6	26.0	5.25	34.4	26.6	1.88	
24	1013.51	32.2	24.9	26.6	25.5	92.0	25.0	MISS	MISS	35.53	108.0	10.52	22.5	310			36.2	25.5	OVER	33.0	25.7	1.42	
25	1014.38	31.1	25.3	26.1	25.2	93.0	25.0	MISS	MISS	20.10	87.0	5.06	12.0	165			32.5	25.5	3.11	33.0	25.5	1.17	
26	1016.84	30.6	24.9	26.6	25.6	92.0	25.2	MISS	MISS	8.47	0.0	15.04	20.4	232			32.6	25.5	2.24	30.2	25.0	1.28	
27	1017.11	31.2	25.4	26.7	25.5	91.0	25.0	MISS	MISS	0.00	0.0	16.14	32.8	290			34.1	26.0	2.58	31.3	25.8	1.60	
28	1017.71	31.1	25.3	27.0	25.1	86.0	24.0	MISS	MISS	0.00	0.0	8.12	16.0	173			31.8	25.8	1.55	29.7	26.1	1.20	
29	1016.78	32.2	25.2	27.1	24.3	79.2	23.2	MISS	MISS	0.00	0.0	19.58	27.0	400			35.8	25.2	4.18	33.7	25.5	3.03	
30	1014.51	31.9	25.0	27.1	24.5	81.0	23.2	MISS	MISS	0.80	0.0	33.79	33.7	388			34.8	24.4	4.46	33.6	24.4	3.10	
SUM										369.29													
MEAN	1014.96	32.5	25.4	27.4	25.3	84.9	24.5	0.0		12.30		15.23	24.0	326			33.1	23.9	4.00	30.8	24.0	2.13	

** CORRECTION FOR 1 GRAVITY = -1.8 MM 2 ELEVATION = 0.3 MM 3 TEMPERATURE = -3.38 MM
PROVISIONAL MEAN CORRECTION FOR MONTH = -6.51 MBS
* WATER SURFACE TEMPERATURE
OCTOPENT STORAGE RAINGAUGE 350 MM

REMARKS