

III. ATMOSPHERIC ELECTRICITY

Atmospheric electricity data have been published since 1962. Table I contains the hourly average values of the potential gradient expressed in V/m. Hourly averages have been taken only from hours having a recording period 30 minutes or more. If values were available only for part of an hour the average is entered in square brackets []. These data have been used in the determination of the monthly and daily means. Values uncertain for some reason are entered in round brackets () and have not been used in calculating of monthly and daily means. Daily means of each day with 24 hours of recording are entered. However, loss of a maximum of one hour's data out of twelve (for example, on account of instrument maintenance or calibration) has not precluded entering this mean value. In hours marked by S the value of the potential gradient exceeded permanently or several times the measuring limits of the equipment making the determination of an hourly average impossible. The directions of the deviations are marked by signs.

Table II gives the hourly means of the quantities of positive and negative charges transported by point-discharge for each month. The values are expressed in 10^{-6} Asec/hour.

All data are presented in universal time (GMT).

Tables were compiled by F. MÄRCZ. Both the equipments and the methods of measurement of potential gradient and point-discharge have been described in the paper by P. BENCZE and F. MÄRCZ: „Atmosphärisch-elektrische und ionosphärische Messungen im Observatorium bei Nagycenk“, Observatoriumsberichte des Geophysikalischen Forschungslaboratoriums der Ungarischen Akademie der Wissenschaften vom Jahre 1966, Sopron, 1967.

I.

Hourly means of the potential gradient

January													
Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	80	60	50	0	0	90	60	70	60	50	+S	+S	+S
2.	60	70	70	70	60	90	110	80	—	80	30	—S	50
3.	100	80	70	80	70	80	120	110	140	90	80	—20	80
4.	30	40	60	50	+S	30	40	60	+S	+S	+S	+S	+S
5.	60	80	70	60	80	110	110	110	120	120	100	110	120
6.	80	70	60	50	70	80	80	70	50	80	80	120	140
7.	110	110	110	120	120	90	90	100	140	+S	+S	+S	+S
8.	20	10	0	30	110	120	110	70	—	150	120	150	150
9.	120	120	130	130	130	120	100	100	130	—	—	—	—
10.	60	—60	—50	+S	+S	+S	100	100	90	70	40	40	80
11.	—60	—80	—90	—40	20	20	10	40	0	+S	+S	+S	+S
12.	40	30	40	30	10	0	10	20	60	60	40	60	40
13.	40	40	30	20	10	0	30	30	90	70	90	120	100
14.	20	20	20	40	10	—30	—30	—80	—100	—180	20	—80	—60
15.	100	40	90	60	—50	30	70	+S	—	+S	0	40	90
16.	—	—	—	—	—	—	—	—	—	—	—50	—30	—40
17.	+S	110	120	100	150	110	100	100	120	140	150	—	—
18.	160	80	100	20	110	80	80	90	70	60	160	140	160
19.	100	40	40	40	70	60	120	—	—	—	—	—	—
20.	—	—	—	—	—	—	120	120	150	60	80	160	140
21.	120	120	120	80	110	110	110	120	100	80	90	90	90
22.	—100	—90	—100	—100	—100	—80	—90	—60	—	—80	—130	—140	—20
23.	80	60	60	40	40	80	60	40	50	60	80	80	80
24.	210	210	160	210	180	120	90	10	30	—10	—50	40	—40
25.	—	—	40	40	40	60	30	—20	110	—	—	—	170
26.	—50	50	50	40	60	70	30	30	30	80	110	200	80
27.	110	80	60	50	50	100	120	80	40	70	90	40	—
28.	40	20	40	20	50	60	70	90	100	90	120	130	170
29.	—	—	—	—	—	—	—	—	—	—	—	—	—
30.	90	130	140	110	130	140	—	—	—	—	—	—	—
31.	—	—	—	—	—	—	—	—	—	—	—	—	—
Maens	65	55	55	52	61	67	69	59	75	57	60	66	79
Number of days	25	26	27	26	25	26	27	25	21	20	21	19	20

13	14	15	16	17	18	19	20	21	22	23	Daily means
+S	—	+S	+S	90	50	—S	—S	—60	60	0	—
40	50	80	100	110	120	120	120	100	90	100	—
110	140	110	70	90	160	100	80	70	60	40	88
90	100	70	80	30	90	80	100	90	70	50	—
120	110	110	140	120	140	120	140	120	+S	90	107
+S	+S	170	160	140	160	140	120	120	100	110	—
120	120	90	80	100	80	90	90	110	160	80	—
120	100	90	90	100	100	90	120	120	120	100	95
—	—	—	—	—	—	—	—	40	10	40	—
120	130	120	130	120	90	70	0	—80	—120	—30	—
±S	±S	+S	80	40	80	90	70	60	40	60	—
30	20	70	+S	±S	70	30	80	80	60	40	—
80	±S	20	40	60	—10	—50	10	30	10	0	37
—20	—60	—90	—50	—10	90	70	40	—40	40	90	—16
70	—70	—30	—20	—30	10	—110	—220	—	—	—	—
—30	—50	—40	—100	—50	0	10	+S	±S	+S	+S	—
—	—	150	150	110	70	90	140	100	70	100	—
140	140	120	100	40	—50	20	80	—10	10	90	83
—	—	—	—	—	—	—	—	—	—	—	—
150	160	110	140	150	110	90	120	150	120	120	—
80	40	100	140	80	80	—30	—20	—30	—50	—100	68
30	30	70	50	0	60	170	180	200	170	130	0
130	100	90	90	100	90	120	190	160	190	+S	90
+S	+S	±S	±S	—	—	—	±S	±S	±S	—	—
180	130	140	170	180	170	130	160	160	80	20	—
90	60	30	90	70	40	60	70	50	70	90	63
—	—	40	40	50	60	—20	20	30	30	30	—
110	130	130	130	170	+S	+S	+S	+S	30	—	—
—	—	—	—	—	—	—	—	—	—	60	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
88	73	76	82	80	78	64	77	68	59	57	
20	19	23	23	24	24	23	22	23	23	23	

February													
Hour GMT	0	1	2	3	4	5	6	7	8	9	10	11	12
Day													
1.	—	—	—	—	—	—	—	—	—	—	—	—	—
2.	—	—	—	—	—	—	—	—	—	—	—	—	—
3.	—	—	—	—	—	—	—	—	—	—	—	—	—
4.	—	—	—	—	—	—	—	—	—	—	—	—	—
5.	—	—	—	—	—	—	—	—	—	—	—	—	—
6.	—	—	—	—	—	—	—	—	—	—	—	—	—
7.	—	—	—	—	—	—	—	—	—	—	—	—	—
8.	—	—	—	—	—	—	—	—	—	—	—	—	—
9.	—	—	—	—	—	—	—	—	—	—	—	—	40
10.	100	—	—	—	—	—	—	—	—	—	—	—	—
11.	—	—	—	—	—	—	—	—	—	—	—	—	—
12.	—	—	—	—	—	—	—	—	—	—	—	—	—
13.	—	—	—	—	—	—	—	—	—	—	—	—	—
14.	—	—	—	—	—	—	—	—	—	—	—	—	—
15.	—	—	—	—	—	—	—	—	—	—	—	—	30
16.	120	90	+S	+S	+S	+S	+S	+S	+S	+S	40	0	—20
17.	30	40	30	40	30	30	20	30	±S	±S	—	—	90
18.	90	70	140	100	40	60	70	70	'60'	90	60	70	90
19.	80	60	150	150	80	80	110	80	—	110	90	110	100
20.	130	100	100	90	80	80	90	90	90	'100'	'100'	110	150
21.	40	50	50	80	60	60	100	130	110	—	120	120	130
22.	80	90	70	70	80	90	110	110	140	140	'140'	150	150
23.	90	80	110	90	130	140	140	170	170	'150'	140	140	130
24.	80	50	60	50	50	70	80	90	80	'90'	110	110	110
25.	130	120	80	70	50	80	50	40	0	—30'	—10	80	60
26.	—20	—10	10	—20	—40	0	50	50	—	110	60	60	80
27.	60	80	70	80	70	80	80	90	90	110	110	130	140
28.	110	60	50	70	70	0	+S	+S	—70	120,	190	190	140
Means	80	68	77	73	58	64	82	86	74	99	96	106	95
Number of days	14	13	12	12	12	12	11	11	9	10	12	12	15

13	14	15	16	17	18	19	20	21	22	23	Daily means
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
40	70	100	100	100	90	90	140	160	140	120	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—10	+S	+S	—140	10	80	30	—80	—90	150	90	—
70	80	80	—160	—110	+S	+S	+S	—20	0	40	—
30	20	10	0	20	20	0	—50	+S	+S	110	—
60	110	150	160	160	150	+S	80	60	140	100	95
110	140	130	110	110	110	150	160	160	180	160	118
130	130	110	100	110	100	90	90	100	80	30	99
120	120	110	110	90	90	90	80	80	80	70	91
170	200	180	190	200	200	170	140	140	130	90	135
150	170	170	150	140	130	130	140	170	150	120	138
120	140	140	130	120	90	90	80	80	90	110	93
50	—10	—40	—20	—20	—10	40	40	—40	—30	—30	27
90	80	80	80	90	60	60	80	80	70	70	51
150	150	150	110	90	130	150	60	90	120	150	106
70	40	—40	—60	—10	—20	—30	—70	—90	—70	—80	—
90	103	95	57	73	87	82	64	63	88	77	
15	14	14	15	15	14	13	14	14	14	15	

March													
Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	—40	—40	40	50	70	70	80	60	70	80	90	80	120
2.	60	50	50	50	70	80	90	90	110	90	80	90	130
3.	120	120	130	150	170	+S	+S	+S	180	180	170	150	150
4.	90	110	130	90	110	150	140	130	120	110	110	140	110
5.	80	80	90	110	90	110	130	120	—	90	100	120	90
6.	70	60	40	30	30	10	30	10	—10	—30	—10	10	30
7.	20	—60	—100	—40	—40	—40	—30	0	—20	—10	0	30	40
8.	10	—10	0	90	40	0	0	—10	20	80	90	30	40
9.	70	60	40	70	70	70	70	70	80	90	80	70	80
10.	30	40	40	70	70	40	30	40	30	60	70	70	70
11.	60	60	70	70	60	60	60	40	40	20	40	40	40
12.	—	—	—	—	—	—	—	—	—	—	—	—	—
13.	60	0	30	30	—	—	—	—	—	—	—	140	180
14.	—10	—30	30	120	+S	200	220	190	—	—	—	—	—
15.	0	60	100	120	—	—	—	150	80	—	90	90	60
16.	40	50	60	60	60	30	60	60	80	60	50	50	80
17.	+S	+S	30	0	10	40	—80	+S	60	50	50	80	100
18.	50	50	50	50	50	50	60	80	90	80	90	80	80
19.	50	40	60	50	50	50	60	100	—	110	90	90	90
20.	10	40	60	40	80	80	+S	80	80	90	80	70	60
21.	60	60	60	40	40	60	100	100	100	90	90	80	80
22.	60	70	80	70	60	40	60	90	100	100	110	100	120
23.	40	40	40	60	60	100	100	90	90	90	80	80	90
24.	80	80	90	80	20	90	110	+S	130	160	140	120	110
25.	70	60	60	40	40	60	70	60	70	80	70	70	70
26.	70	70	80	80	90	110	120	130	—	140	140	140	110
27.	80	100	90	90	90	100	100	100	90	100	90	80	90
28.	80	60	80	60	60	60	40	50	30	10	50	80	60
29.	50	40	50	50	60	60	80	+S	+S	+S	+S	+S	+S
30.	80	50	50	30	40	50	30	—S	—110	+S	—30	90	50
31.	100	60	40	50	50	60	90	90	140	110	90	80	60
Means	53	47	56	62	63	68	70	80	69	81	78	84	85
Number of days	29	29	30	30	27	27	26	24	24	25	27	28	28

13	14	15	16	17	18	19	20	21	22	23	Daily means
120	90	120	120	80	40	60	70	70	70	70	68
140	150	140	110	110	110	110	90	90	120	110	97
150	140	90	80	60	90	110	90	90	90	90	—
110	110	90	90	80	110	110	120	110	80	60	109
90	100	80	70	110	120	90	80	30	30	40	89
110	90	90	70	40	20	—30	20	20	—30	—60	28
40	40	80	90	90	90	90	80	80	40	60	22
30	30	—S	40	40	±S	—S	70	70	70	40	—
70	60	70	60	40	40	40	20	30	30	30	59
—S	+S	±S	±S	70	70	90	80	80	90	70	—
30	20	—80	10	30	—20	—160	—110	—	—	—	—
—	—	120	70	0	90	+S	+S	+S	±S	±S	—
150	90	100	90	90	70	+S	30	—20	—70	—40	—
60	60	100	100	110	110	80	100	50	80	60	—
90	60	80	80	60	60	60	80	80	50	40	—
90	80	60	60	+S	—S	±S	—S	±S	+S	±S	—
100	100	90	90	80	100	90	100	100	90	60	—
90	80	80	90	80	40	50	30	40	60	60	65
80	70	60	60	70	80	90	90	80	90	60	73
60	40	60	70	60	70	70	90	70	60	60	64
60	30	30	40	10	30	80	80	80	70	70	64
—30	—30	10	30	—140	—60	—100	—100	—10	0	20	27
110	120	—S	+S	90	±S	±S	±S	±S	±S	40	—
100	90	90	90	70	70	60	40	40	40	60	88
60	60	60	60	40	40	30	40	20	20	70	55
80	80	60	50	60	60	50	80	80	80	60	88
80	50	90	100	100	60	80	60	60	60	60	83
60	60	60	60	60	80	60	80	60	50	50	58
+S	—S	+S	±S	±S	—S	10	—40	50	50	50	—
+S	+S	+S	—S	—30	30	—70	40	50	80	80	—
90	80	60	90	90	100	110	110	100	90	80	84
82	72	73	73	57	63	48	54	59	55	52	
27	27	26	27	29	27	26	28	27	27	28	

April

Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	50	40	60	50	60	80	80	90	[80]	60	+S	$\pm S$	$\pm S$
2.	40	40	30	30	40	80	100	[110]	—	80	70	70	80
3.	40	60	60	40	60	70	90	[130]	130	90	80	80	70
4.	40	60	40	40	40	30	60	80	70	[60]	40	60	40
5.	80	60	60	60	60	70	130	[100]	90	80	80	80	70
6.	40	40	40	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	—S	0	$\pm S$
7.	100	40	90	40	60	30	[60]	[70]	90	60	70	40	60
8.	10	30	10	20	+S	30	40	40	80	90	[90]	70	60
9.	80	60	80	90	80	100	100	90	—	[80]	80	70	80
10.	20	30	10	20	30	70	80	80	[40]	40	70	90	90
11.	30	30	30	30	40	60	80	[90]	90	80	80	70	80
12.	30	20	30	30	40	60	70	[70]	(90)	80	90	100	110
13.	60	40	60	40	40	40	60	[80]	80	90	100	110	100
14.	10	10	10	20	30	40	[70]	[70]	60	60	70	60	70
15.	30	20	10	10	30	40	40	60	[60]	80	80	80	80
16.	30	20	10	20	30	70	60	[80]	90	110	90	70	70
17.	30	60	60	40	10	30	60	70	—	100	110	110	130
18.	—10	—10	—40	—40	—70	—70	—90	—60	—60	—60	[—50]	—10	10
19.	40	40	40	50	40	50	60	100	100	90	90	[90]	100
20.	10	30	40	50	60	70	90	[100]	[100]	110	110	100	110
21.	40	30	30	30	40	50	70	70	[50]	50	30	50	90
22.	30	40	30	30	40	60	100	90	[60]	70	50	60	50
23.	10	30	10	10	30	40	70	70	—	[80]	60	50	40
24.	60	80	60	40	30	10	50	50	[50]	[10]	0	30	50
25.	30	—30	—30	—130	—40	—170	—80	—90	—60	30	80	100	90
26.	50	80	90	90	80	90	50	60	[100]	100	100	$\pm S$	+S
27.	30	40	40	40	50	0	$\pm S$	$\pm S$	[+S]	[—S]	($\pm S$)	$\pm S$	$\pm S$
28.	0	30	10	—10	—10	—60	0	0	—30	—10	—60	—60	—90
29.	40	10	0	0	30	40	80	100	[110]	[130]	90	80	80
30.	60	50	40	40	40	50	60	60	[80]	[80]	60	50	50
Means	37	36	34	27	35	37	59	66	63	69	65	63	68
Number of days	30	30	30	29	28	29	23	23	23	28	27	27	26

13	14	15	16	17	18	19	20	21	22	23	Daily means
30	50	0	50	50	60	90	100	80	50	40	—
80	90	90	110	100	100	90	100	80	70	60	77
70	70	70	60	40	40	44	30	30	30	40	63
60	+S	—	—	±S	±S	±S	+S	40	70	60	—
60	60	70	90	80	80	90	90	70	60	70	77
±S	±S	±S	±S	±S	—50	30	20	0	10	—20	—
40	40	40	40	40	40	40	30	30	10	10	49
40	40	60	30	30	40	60	70	70	60	70	50
90	80	90	100	110	90	80	40	30	30	20	76
80	90	100	90	90	80	80	60	40	30	30	60
80	80	80	70	70	70	60	60	30	30	20	60
120	140	110	100	140	150	110	90	60	60	60	81
90	90	70	80	30	40	40	30	20	10	10	59
70	80	70	70	60	40	40	30	20	20	30	46
80	80	90	100	90	60	60	40	40	30	40	55
70	80	60	60	60	40	40	60	40	30	30	55
130	70	50	50	40	10	0	10	—40	—10	—10	48
10	0	10	30	50	40	60	90	70	50	40	—5
90	90	90	90	100	100	90	90	90	70	60	77
110	110	100	90	90	70	100	70	50	50	40	78
100	110	110	70	50	50	60	50	50	40	30	56
60	60	50	50	60	—160	50	30	40	10	10	40
40	40	50	50	60	80	80	80	60	60	60	50
50	50	50	60	80	80	80	60	40	30	30	47
80	±S	±S	±S	90	±S	±S	±S	±S	±S	80	—
80	100	100	100	100	110	90	90	60	10	10	79
—100	30	30	50	50	80	60	60	30	30	30	—
±S	±S	—40	—60	—50	—110	0	50	—10	10	0	—
100	100	110	110	90	90	80	60	60	60	50	71
50	50	60	60	80	90	30	—40	—190	—60	—10	35
66	72	66	67	67	50	62	55	34	33	33	
28	26	27	27	28	28	28	28	29	29	30	

May													
Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	30	0	60	50	40	—100	—140	—280	—90	80	±S	±S	±S
2.	0	40	50	60	40	—60	60	80	—	150	(130)	80	100
3.	—100	90	80	80	40	+S	150	160	190	180	160	+S	+S
4.	100	90	80	80	80	80	100	90	(110)	(80)	80	80	90
5.	70	80	80	70	30	20	40	60	±S	±S	+S	±S	±S
6.	70	70	70	60	60	80	90	90	80	70	60	70	70
7.	20	—10	0	40	60	40	60	70	—	80	60	60	80
8.	50	60	50	40	40	40	50	80	90	100	100	90	90
9.	40	50	0	10	0	40	60	80	90	90	90	80	90
10.	40	40	50	60	50	90	100	60	90	100	100	100	90
11.	—70	—30	—20	—20	—10	0	—10	30	60	90	100	110	110
12.	0	40	+S	40	30	90	130	160	160	50	60	80	50
13.	—10	—10	—10	0	0	10	40	60	80	60	60	60	80
14.	0	—10	0	10	10	40	80	100	—	100	100	90	100
15.	30	10	30	40	50	60	50	60	80	90	90	80	90
16.	10	10	30	10	50	90	60	60	60	50	60	50	50
17.	10	10	10	10	40	50	50	60	80	80	60	60	80
18.	50	50	50	50	50	40	40	60	50	50	50	50	50
19.	30	10	10	30	30	40	40	50	60	50	50	60	60
20.	10	10	10	30	40	80	60	60	60	60	50	50	50
21.	10	0	0	10	30	60	50	50	—	80	90	120	—
22.	20	30	30	30	50	60	60	90	120	110	130	130	110
23.	0	30	10	30	40	60	60	70	70	60	60	60	40
24.	0	10	30	30	30	0	—10	10	40	60	60	60	60
25.	40	60	40	40	60	70	60	70	100	90	100	90	100
26.	30	30	30	10	30	30	40	40	60	70	90	70	70
27.	40	60	40	40	40	40	60	70	70	70	70	70	70
28.	40	40	40	10	30	60	70	+S	—	50	50	60	60
29.	20	40	40	10	20	60	50	60	60	50	50	50	70
30.	20	20	20	20	50	50	50	50	60	50	60	60	60
31.	10	20	10	20	40	40	40	50	60	70	60	60	60
Means	20	30	31	32	37	42	53	58	74	76	77	74	75
Number of days	31	31	30	31	31	30	31	30	24	29	28	28	27

13	14	15	16	17	18	19	20	21	22	23	Daily means
80	90	100	-10	-100	-100	-30	-40	40	10	-60	—
100	100	60	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	—
+S	$\pm S$	+S	130	130	140	110	130	130	130	110	—
90	90	90	90	90	90	70	70	70	40	30	—
-10	40	+S	30	60	40	70	70	70	70	70	—
80	70	80	80	90	70	60	40	30	20	30	66
90	80	90	90	100	100	90	80	80	60	60	64
80	90	90	100	110	90	50	40	30	40	40	68
90	80	90	90	90	90	80	90	40	40	50	65
100	90	60	80	100	60	50	40	50	50	40	70
110	110	110	110	90	80	60	50	30	-10	0	45
50	50	50	60	60	60	50	40	10	0	-10	57
80	80	60	60	60	60	50	50	40	30	10	42
90	90	80	60	60	50	50	40	40	30	30	54
100	90	100	100	80	40	30	10	10	10	10	56
50	50	50	50	50	60	50	40	50	40	10	45
60	80	80	80	80	80	60	50	50	40	50	55
60	50	50	50	50	40	40	40	40	30	30	47
60	80	90	90	80	50	50	40	30	40	30	48
50	50	60	60	60	60	50	50	40	30	30	46
—	—	—	—	—	—	20	20	20	30	30	—
100	90	90	70	60	40	30	30	10	10	0	63
60	60	60	70	90	70	60	40	60	40	30	51
60	60	60	60	60	60	60	60	60	60	40	43
110	110	90	60	60	60	40	40	40	40	40	67
60	70	70	70	70	60	70	70	60	60	40	54
70	60	70	60	60	60	60	70	70	70	60	60
70	80	80	90	80	40	40	40	20	20	20	—
70	80	80	80	80	50	20	40	20	40	20	48
60	60	60	50	40	20	20	10	10	10	20	39
-50	$\pm S$	0	50	20	40	20	20	20	10	10	29
70	76	73	71	68	57	49	46	42	36	29	
29	28	28	29	29	29	30	30	30	30	30	

June													
Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	20	40	40	50	50	70	70	50	[80]	90	80	70	70
2.	40	20	40	40	50	50	50	60	60	70	70	60	70
3.	20	40	20	40	40	50	40	40	50	60	60	60	60
4.	20	10	0	10	20	40	40	50	—	70	70	70	80
5.	10	10	10	40	30	40	40	50	50	[50]	50	40	40
6.	10	0	0	30	30	50	40	50	50	50	70	70	80
7.	80	80	90	90	110	140	150	160	[+S]	±S	110	70	70
8.	40	10	−60	−10	±S	±S	±S	±S	±S	[+S]	190	120	80
9.	50	40	0	40	50	50	80	110	120	[110]	90	70	70
10.	40	50	50	50	50	90	190	140	[160]	160	150	150	150
11.	50	50	50	70	80	70	70	90	—	0	[80]	100	110
12.	40	40	40	+S	30	50	60	50	(50)	(80)	70	70	70
13.	50	50	50	70	50	90	90	70	[70]	50	90	±S	±S
14.	30	80	—	—	—	—	—	—	—	—	—	—	—
15.	−S	10	20	10	20	70	50	50	[80]	80	50	50	50
16.	40	30	30	20	10	10	10	30	[40]	50	20	70	50
17.	30	±S	−100	30	30	50	+S	+S	—	—	80	70	110
18.	30	30	30	20	30	70	+S	60	—	(10)	30	30	40
19.	+S	−20	0	10	40	60	50	80	[100]	[90]	80	80	70
20.	±S	±S	±S	±S	−S	−S	−70	0	−30	[50]	−10	10	30
21.	20	30	30	40	40	50	60	70	110	[60]	−10	40	+S
22.	50	70	100	80	50	50	60	110	[100]	60	50	60	80
23.	50	40	30	30	20	30	20	10	−10	0	10	50	30
24.	20	30	30	20	20	30	50	[50]	50	50	40	30	30
25.	20	20	30	40	60	70	50	50	—	+S	±S	+S	+S
26.	40	40	30	30	30	80	100	(±S)	(±S)	±S	±S	(±S)	±S
27.	0	10	20	40	60	120	+S	+S	[+S]	[150]	100	40	30
28.	10	10	20	30	30	60	60	30	−S	±S	±S	±S	+S
29.	40	20	30	40	60	60	60	70	[80]	80	70	70	60
30.	20	10	30	30	30	30	50	60	40	30	30	40	30
Means	32	30	24	37	41	60	59	64	67	67	66	64	65
Number of days	27	28	28	27	27	27	25	25	18	21	26	25	24

13	14	15	16	17	18	19	20	21	22	23	Daily means
80	90	—S	+S	40	40	40	40	40	50	50	—
80	80	+S	70	40	20	40	40	40	40	20	50
60	60	70	70	40	40	40	20	20	20	40	44
70	80	80	70	50	30	10	10	0	0	0	38
—40	40	50	50	50	50	40	40	10	0	0	31
80	90	110	110	110	90	90	90	120	110	90	68
50	50	—30	70	50	40	50	50	30	30	40	—
110	120	140	140	110	90	90	70	70	80	50	—
80	±S	—	±S	±S	±S	±S	50	50	30	30	—
150	110	110	80	90	80	70	80	80	50	50	99
110	90	10	+S	40	40	50	50	50	40	40	—
70	70	70	80	60	50	50	60	50	50	40	—
40	50	50	60	50	50	50	50	40	30	30	—
—	—	40	50	40	70	50	40	30	—S	±S	—
50	50	50	40	±S	±S	40	40	40	30	30	—
+S	±S	60	±S	±S	±S	±S	±S	±S	±S	±S	—
+S	±S	±S	±S	0	+S	40	40	20	20	30	—
40	40	30	40	30	30	30	30	50	40	+S	—
70	60	70	70	60	50	40	20	20	10	±S	51
—20	30	40	50	80	—40	—20	10	—20	—40	—20	—
30	40	—50	—10	0	—10	20	50	50	60	40	33
70	80	70	70	90	100	130	170	70	50	50	78
20	30	50	50	50	60	50	50	30	30	30	32
30	20	20	40	40	40	40	30	20	30	30	33
40	50	60	70	60	40	40	40	50	40	50	—
±S	±S	+S	60	30	30	40	—20	—40	—70	—50	—
40	40	—70	50	50	50	50	50	40	30	20	—
±S	60	40	40	30	40	40	40	40	40	40	—
80	70	80	90	90	40	50	30	10	20	30	55
+S	±S	30	10	30	40	40	30	40	90	60	—
58	63	47	61	52	45	46	45	36	33	32	
24	24	25	25	27	26	28	29	29	28	26	

July

Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	50	50	40	40	40	60	60	70	80	70	60	60	40
2.	0	20	20	-10	40	80	-40	-50	—	-30	30	30	40
3.	40	40	40	-10	10	-100	-180	-60	20	-20	-10	120	90
4.	-10	-20	-20	-30	-40	-40	20	60	120	90	70	60	60
5.	40	30	30	20	20	50	70	100	100	90	80	70	30
6.	30	40	50	40	40	40	50	60	70	70	70	60	50
7.	20	20	10	20	20	30	50	50	40	50	40	30	30
8.	10	10	10	10	20	30	20	-50	-80	±S	-S	-70	-30
9.	50	—	—	—	—	—	—	—	—	30	40	50	30
10.	-30	+S	±S	20	30	100	120	10	100	60	80	80	60
11.	40	30	40	40	50	50	50	80	0	80	70	60	50
12.	50	40	30	40	40	50	50	30	40	10	30	30	40
13.	50	40	40	-50	60	80	120	140	110	120	+S	140	80
14.	90	40	10	30	20	80	120	70	90	+S	70	60	40
15.	0	-10	-10	30	30	40	80	100	100	90	90	90	50
16.	30	20	20	20	30	40	30	30	—	10	30	30	40
17.	20	20	10	30	40	50	40	30	60	40	30	30	30
18.	30	20	20	0	10	30	50	40	20	30	80	40	20
19.	40	50	50	50	60	60	60	50	50	50	50	50	±S
20.	20	20	30	20	-30	40	±S	±S	110	40	+S	80	70
21.	20	30	30	30	20	20	90	140	140	90	120	80	60
22.	-10	10	30	30	±S	+S	50	20	60	40	30	70	30
23.	40	40	30	40	40	70	100	120	—	110	70	60	60
24.	40	40	40	30	40	50	50	50	50	50	50	30	40
25.	20	30	20	30	30	40	50	50	50	60	70	50	50
26.	40	20	20	30	30	40	60	50	50	50	50	60	60
27.	20	20	20	30	30	30	120	80	70	0	50	60	30
28.	20	20	10	10	10	10	40	70	60	50	40	70	60
29.	20	10	20	30	30	40	30	30	30	40	40	±S	±S
30.	40	20	10	10	50	50	60	50	—	—	60	40	60
31.	-10	±S	+S	20	30	80	80	70	80	80	70	60	+S
Means	26	25	23	20	28	41	52	51	62	52	56	56	45
Number of days	31	28	28	30	29	29	29	29	26	28	28	30	28

13	14	15	16	17	18	19	20	21	22	23	Daily means
40	30	40	40	40	50	50	50	70	50	30	50
60	$\pm S$	$\pm S$	-30	20	-40	-90	-40	0	10	30	—
-50	10	0	-60	-50	-10	-80	-30	30	-10	-30	-13
50	50	40	40	40	50	50	50	50	50	50	35
50	40	40	50	50	50	50	50	50	40	30	51
50	40	40	40	40	40	40	40	$\pm S$	$\pm S$	30	—
30	$\pm S$	$\pm S$	30	30	40	30	+S	30	30	20	—
30	70	50	+S	40	-S	$\pm S$	20	20	40	50	—
20	40	40	20	30	80	40	30	70	-S	-50	—
60	60	60	60	40	30	50	40	50	40	40	—
50	40	30	40	30	30	50	30	40	40	40	44
30	60	80	90	-S	$\pm S$	+S	$\pm S$	$\pm S$	$\pm S$	-S	—
110	80	80	+S	$\pm S$	$\pm S$	$\pm S$	-S	40	110	120	—
20	30	20	10	20	10	60	-10	-20	0	0	37
50	60	50	40	40	40	40	40	40	60	50	50
70	40	40	60	70	50	40	10	0	10	20	32
20	+S	30	30	0	10	20	30	50	40	30	30
20	30	20	30	40	40	30	40	60	50	40	33
$\pm S$	$\pm S$	$\pm S$	$\pm S$	20	20	30	30	10	20	20	—
$\pm S$	$\pm S$	$\pm S$	($\pm S$)	$\pm S$	-10	10	20	30	10	10	—
60	60	60	50	50	40	50	30	+S	-70	$\pm S$	—
20	20	10	-50	-40	0	30	40	30	40	40	—
50	50	50	50	50	50	50	50	50	50	50	58
40	30	30	30	40	40	50	50	40	30	20	40
50	50	50	40	40	30	30	50	50	40	40	43
70	60	50	20	30	40	40	30	+S	-S	20	—
$\pm S$	-S	60	50	+S	$\pm S$	40	30	20	$\pm S$	-S	—
50	40	+S	60	40	40	20	20	20	20	20	35
90	50	50	50	50	50	50	40	40	40	40	40
$\pm S$	—	—	-S	$\pm S$	$\pm S$	$\pm S$	-S	30	30	30	—
$\pm S$	$\pm S$	+S	-20	$\pm S$	—	—	—	20	40	60	—
44	45	43	30	30	31	30	23	34	31	30	
26	23	24	26	25	25	26	26	27	26	28	

August													
Hour GMT Day	1	2	3	4	5	6	7	8	9	10	11	12	
1.	40	20	20	20	20	60	90	80	60	40	30	90	100
2.	30	30	30	20	20	40	40	40	80	80	80	80	70
3.	40	20	20	40	30	40	40	60	60	70	80	60	70
4.	—	—	—	—	—	—	—	110	70	60	60	40	+S
5.	30	30	20	20	30	40	80	90	90	80	70	70	70
6.	40	30	30	30	30	70	70	60	—	50	60	40	40
7.	30	20	20	20	20	40	40	30	40	40	30	40	40
8.	30	30	30	20	20	20	30	30	30	—50	—70	—40	40
9.	50	40	60	70	70	90	90	—10	10	30	70	110	90
10.	60	40	20	20	40	30	30	30	50	—10	—40	—30	+S
11.	40	40	40	40	40	70	60	60	50	70	80	60	60
12.	30	20	20	20	30	30	40	60	80	90	70	50	50
13.	20	20	30	30	40	70	80	100	—	90	80	50	50
14.	50	50	60	70	70	80	80	70	—	70	70	60	70
15.	40	50	60	50	60	70	80	120	130	130	120	120	110
16.	40	20	30	50	50	60	70	70	—	—	60	70	70
17.	20	20	30	30	40	60	50	50	50	50	70	70	70
18.	30	40	50	50	50	50	60	80	70	90	80	80	50
19.	60	40	70	80	110	80	70	60	50	40	50	40	40
20.	60	+S	—10	30	40	30	30	70	80	+S	+S	140	+S
21.	50	50	40	40	50	70	(70)	70	—	—	80	70	70
22.	30	40	40	50	50	50	50	40	40	50	50	50	50
23.	50	50	50	50	40	40	90	80	60	60	50	50	40
24.	40	70	60	50	30	30	40	50	70	110	120	110	80
25.	70	80	70	50	40	50	50	30	50	30	30	40	20
26.	30	30	40	40	40	60	50	50	60	50	50	50	20
27.	40	40	40	40	50	60	70	50	—	40	50	40	50
28.	40	50	50	40	50	60	80	70	70	70	60	40	40
29.	40	40	40	50	70	80	110	80	110	120	70	70	80
30.	50	50	50	40	50	50	50	60	70	120	140	120	100
31.	50	50	50	50	50	50	80	—	90	80	80	80	80
Means	41	38	39	40	44	54	62	61	65	62	61	65	61
Number of days	30	29	30	30	30	30	29	30	25	28	30	31	28

13	14	15	16	17	18	19	20	21	22	23	Daily means
70	60	70	70	30	30	10	20	30	40	40	48
70	70	70	40	60	70	60	60	40	30	40	52
90	90	80	120	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	—	—
+S	$\pm S$	$\pm S$	$\pm S$	20	30	20	40	70	60	40	—
80	70	70	80	70	60	40	40	30	30	30	55
40	30	30	40	40	40	50	40	40	40	30	42
40	40	40	40	40	30	20	40	40	30	30	33
40	50	40	40	40	60	40	—20	$\pm S$	70	50	27
90	80	80	70	50	30	50	50	60	60	70	61
+S	10	30	30	40	50	60	80	60	50	50	—
50	40	50	50	50	50	50	60	40	40	40	51
70	50	50	70	30	40	40	40	30	40	40	45
50	50	30	30	50	30	70	70	50	50	60	52
70	60	70	100	100	90	70	60	50	50	40	68
100	90	90	70	50	60	60	50	40	40	30	76
60	80	90	80	60	50	50	30	30	20	10	—
60	60	70	60	50	40	40	40	40	30	20	47
60	50	60	60	50	50	70	70	70	80	60	60
—40	$\pm S$	$\pm S$	$\pm S$	$\pm S$	$\pm S$	+S	$\pm S$	$\pm S$	—S	70	—
+S	40	40	40	40	50	60	80	80	70	60	—
70	70	100	100	80	60	50	50	70	60	40	—
40	40	40	50	40	40	50	50	50	50	50	45
40	50	40	50	50	50	50	40	30	30	30	49
80	90	60	$\pm S$	—10	30	60	110	100	70	70	66
10	40	50	50	60	50	50	50	50	40	30	45
30	30	60	70	60	60	50	40	30	10	30	43
50	60	70	50	50	70	70	60	50	50	40	52
50	$\pm S$	$\pm S$	$\pm S$	30	40	70	70	50	50	50	—
90	110	120	120	120	130	70	60	50	50	50	80
—	100	120	110	80	70	60	70	50	50	50	74
(100)	100	100	90	90	90	70	100	100	80	70	76
56	61	59	66	52	53	52	53	51	47	44	
26	28	28	27	29	29	29	29	28	29	30	

September

Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	60	60	60	60	70	120	150	120	(110)	120	120	140	130
2.	60	60	50	60	80	90	100	100	100	120	110	70	70
3.	50	40	40	40	40	70	60	70	—	60	60	80	80
4.	50	30	10	+S	±S	+S	±S	—S	100	110	(50)	40	30
5.	10	10	10	20	30	30	40	50	60	60	50	50	40
6.	60	50	50	50	70	60	80	110	130	140	110	70	70
7.	50	50	50	50	70	70	90	80	110	120	120	120	120
8.	50	40	40	50	50	50	60	90	90	80	70	60	50
9.	50	40	40	40	30	40	50	70	70	70	60	80	90
10.	40	40	40	50	50	60	—	70	60	60	50	70	70
11.	20	30	30	40	70	80	110	170	130	130	90	80	90
12.	50	60	60	30	30	40	50	70	80	80	70	90	80
13.	40	40	40	60	110	—	—	—	—	—	60	50	50
14.	40	40	40	40	40	40	50	50	70	70	60	60	60
15.	20	30	20	50	50	70	90	70	90	80	50	50	50
16.	50	50	50	50	50	70	110	140	130	120	70	70	70
17.	30	30	40	30	40	40	50	50	—	70	80	90	90
18.	70	70	80	60	50	60	80	70	70	70	70	50	50
19.	50	40	40	40	60	50	50	50	50	50	50	50	50
20.	50	50	60	60	70	80	70	60	70	60	60	70	100
21.	50	50	50	50	50	50	50	60	70	60	70	70	70
22.	50	50	50	40	60	60	90	90	120	60	60	60	—S
23.	60	70	70	70	70	60	50	50	40	+S	10	—10	40
24.	40	50	50	40	30	10	—20	10	—	10	—40	0	0
25.	40	40	50	40	50	50	70	50	50	50	60	50	50
26.	50	50	50	60	60	60	70	90	90	110	120	100	100
27.	50	40	50	50	50	50	60	120	—	—	80	70	70
28.	50	50	40	50	40	40	70	100	90	110	100	110	110
29.	20	30	20	—10	—10	10	10	20	30	20	30	30	50
30.	20	20	30	30	40	40	70	60	80	100	100	100	110
Means	44	44	44	45	52	55	67	76	83	81	69	67	70
Number of days	30	30	30	29	29	28	27	28	24	27	29	30	29

13	14	15	16	17	18	19	20	21	22	23	Daily means
140	130	110	110	120	120	110	90	110	70	80	104
80	90	70	80	80	90	80	60	50	50	40	77
70	70	70	70	70	70	70	60	60	60	60	62
30	30	40	$\pm S$	$\pm S$	$\pm S$	20	30	$+S$	-10	0	—
10	10	40	40	50	50	50	70	60	60	60	40
70	60	50	60	70	60	60	60	60	60	50	71
110	100	90	60	50	50	50	50	60	50	50	76
60	60	70	50	50	50	40	40	40	40	50	55
100	110	100	90	70	50	40	40	40	40	40	60
$+S$	$\pm S$	$+S$	30	30	30	20	20	20	30	30	—
70	70	60	60	50	40	30	40	40	40	40	67
70	60	50	50	70	70	50	40	40	30	30	56
50	50	50	40	40	50	40	50	40	40	40	—
70	70	50	50	40	$+S$	$\pm S$	$\pm S$	40	20	20	—
40	40	40	40	40	40	50	$\pm S$	40	50	40	—
70	70	70	90	90	90	60	50	40	30	30	72
90	80	60	50	50	60	80	80	80	80	70	62
50	50	50	50	50	60	60	60	60	50	50	60
50	50	50	50	50	50	40	40	50	50	60	49
80	60	60	70	60	70	70	50	30	40	50	63
70	80	70	50	40	60	60	70	70	50	50	59
$\pm S$	100	50	20	30	60	60	70	70	50	50	—
40	40	40	60	80	50	40	20	40	50	30	47
$-S$	$+S$	30	50	60	50	40	50	40	40	40	—
50	50	50	70	110	110	120	130	110	70	50	65
110	120	100	90	80	70	70	70	50	50	50	78
70	80	70	60	40	40	50	70	60	80	30	—
110	110	100	90	60	70	30	60	60	40	40	72
60	60	60	50	30	30	40	40	40	30	30	30
130	140	150	130	100	80	80	80	70	50	60	78
72	73	66	62	61	61	56	57	54	46	44	
27	28	29	29	29	28	29	28	29	30	30	

October													
Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	70	60	50	50	40	40	50	40	—	—	—	—	—
2.	—	—	—	—	—	—	—	—	—	—	—	50	70
3.	40	30	20	20	20	30	40	30	40	50	50	50	50
4.	50	40	30	20	30	40	40	30	40	50	50	50	50
5.	10	20	30	40	40	50	50	40	50	70	70	80	80
6.	10	—10	—10	10	30	50	50	0	30	30	40	10	0
7.	50	60	70	60	60	50	60	50	60	70	80	70	70
8.	50	50	50	50	40	50	50	60	—	50	60	70	50
9.	30	30	20	10	20	30	30	30	40	50	50	50	50
10.	50	30	20	10	20	30	30	20	30	10	20	20	20
11.	—40	—50	—30	—20	—40	—50	—10	20	10	30	40	40	50
12.	20	20	20	10	10	10	0	20	30	40	40	50	50
13.	50	40	50	50	50	50	30	40	70	60	70	30	30
14.	40	30	30	40	40	50	60	50	60	70	60	50	40
15.	—	—	—	—	—	—	—	—	—	40	30	40	±S
16.	30	30	40	20	30	30	50	50	50	40	50	30	(40)
17.	30	40	30	30	0	20	40	40	50	50	30	30	30
18.	30	30	40	30	10	30	40	50	40	—10	10	50	70
19.	50	40	50	50	60	50	60	20	—40	40	10	10	—10
20.	30	30	20	30	30	60	80	100	100	90	70	80	70
21.	80	80	70	60	60	80	70	70	80	80	90	100	80
22.	60	60	70	60	80	70	70	90	60	—	—	10	—10
23.	0	—40	—40	—20	—30	—40	—70	—40	—10	30	40	40	30
24.	10	10	20	30	30	—50	10	80	90	130	140	110	130
25.	70	30	30	40	0	—10	0	30	40	70	60	70	80
26.	60	40	60	40	70	90	80	60	60	70	80	100	120
27.	—	—	—	—	—	—	—	—	—	—	—	20	30
28.	20	10	10	—10	0	—20	—10	—60	—60	—50	20	60	50
29.	0	10	—10	—10	—10	—10	0	0	—	20	10	30	10
30.	130	60	30	40	80	50	90	80	80	70	50	40	30
31.	—10	0	30	20	0	20	10	20	—	70	60	40	70
Means	36	28	29	27	28	29	36	36	42	49	51	49	50
Number of days	28	28	28	28	28	28	28	28	24	27	27	30	28

13	14	15	16	17	18	19	20	21	22	23	Daily means
—	—	—	—	—	—	—	—	—	—	—	—
80	70	70	70	70	70	60	50	40	40	40	—
50	50	50	50	50	40	50	40	50	50	50	42
50	50	50	50	40	30	30	10	10	20	10	36
70	80	80	80	90	70	30	20	30	10	60	52
—20	40	80	180	+S	120	100	90	70	70	60	45
70	70	60	50	50	70	70	70	50	50	50	61
50	60	50	40	50	40	40	50	40	40	30	49
50	50	50	30	20	70	50	50	50	50	50	40
30	40	30	30	60	40	30	10	—20	—10	—20	22
50	60	50	50	50	20	30	50	40	20	30	17
50	50	60	50	50	40	30	40	40	30	50	34
40	50	50	50	50	50	50	50	40	40	40	47
40	50	30	10	30	40	40	(30)	—	—	—	—
—S	30	—20	—40	—30	—10	40	10	10	30	40	—
(30)	40	40	50	50	50	50	60	50	40	40	—
80	90	80	40	40	+S	80	±S	±S	30	40	—
70	60	60	60	60	60	40	±S	±S	20	30	—
0	30	40	40	40	40	70	60	60	60	50	37
60	50	70	80	100	110	90	100	90	80	80	71
80	60	80	70	60	80	80	60	60	70	70	74
—10	—30	—40	—50	0	10	10	50	—10	—20	—60	—
0	—30	—40	—40	40	20	30	30	30	—40	—10	—7
160	150	150	130	160	150	120	80	80	60	50	85
80	80	60	60	40	50	80	80	30	50	50	49
80	80	80	80	70	70	40	—10	—30	—10	—	60
50	50	30	40	40	10	60	60	40	20	10	—
70	60	60	40	20	0	30	30	30	10	30	14
40	40	40	80	80	160	80	130	150	120	130	47
—40	—60	—20	—20	—20	—20	—10	—30	—10	0	—10	25
80	90	100	100	120	110	140	90	80	80	60	60
50	50	49	49	51	55	55	49	41	35	38	
28	30	30	30	29	29	30	27	27	29	28	

November

Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	70	60	60	90	40	10	90	60	30	60	70	60	90
2.	30	10	10	10	20	40	60	80	100	90	90	70	70
3.	30	30	20	30	20	20	20	10	30	20	40	40	80
4.	60	60	60	60	90	90	30	60	70	40	60	40	70
5.	-40	-10	-10	0	-10	-30	-60	-90	—	-100	-70	-50	-50
6.	200	+S	110	+S	100	50	10	40	50	60	80	80	100
7.	40	50	50	50	60	80	80	90	80	80	80	120	110
8.	-S	+S	-80	-100	-60	-50	30	60	80	80	70	70	70
9.	40	10	-20	30	60	50	80	90	90	100	100	110	90
10.	—	—	—	—	-30	40	30	10	—	—	—	50	80
11.	-20	-20	10	-20	-50	-50	-30	-40	-70	90	120	20	40
12.	50	30	10	30	30	30	40	50	—	90	80	80	90
13.	30	30	-10	20	40	60	40	110	120	110	120	110	100
14.	80	60	40	40	40	60	40	60	50	50	50	40	20
15.	80	90	110	90	90	100	120	160	60	—	—	—	—
16.	—	10	30	40	50	60	60	60	70	70	120	140	170
17.	40	-30	±S	+S	-20	10	-10	60	80	100	100	110	100
18.	—	—	—	—	—	—	—	—	—	—	—	—	—
19.	—	—	—	—	—	—	—	—	—	—	—	—	—
20.	—	—	—	—	—	—	—	—	—	—	—	—	—
21.	—	—	—	—	—	—	—	—	—	—	—	40	60
22.	40	30	30	60	70	80	80	70	90	80	100	90	120
23.	60	80	60	70	80	100	120	140	180	120	110	100	90
24.	30	10	10	-10	-40	30	-40	60	130	120	130	120	130
25.	50	70	80	60	50	60	30	30	30	60	80	80	80
26.	90	60	60	70	30	110	130	190	—	150	100	90	80
27.	90	100	130	90	70	80	+S	50	-30	-80	70	80	120
28.	180	170	140	140	140	150	120	110	+S	±S	-40	-30	-60
29.	20	20	30	30	30	30	50	80	30	70	+S	+S	80
30.	100	100	90	120	120	30	120	130	+S	+S	+S	180	180
Means	59	44	43	43	41	50	52	67	64	66	75	74	81
Number of days	23	23	24	23	26	26	25	26	20	22	22	25	26

13	14	15	16	17	18	19	20	21	22	23	Daily means
80	40	20	10	10	10	80	40	120	100	60	57
70	60	80	90	100	$\pm S$	$\pm S$	0	20	30	20	—
60	40	—10	40	70	70	70	90	90	70	60	43
80	80	60	60	30	10	—40	—30	—40	—10	—40	42
—90	—10	—50	$\pm S$	$\pm S$	50	30	120	140	130	170	—
(80)	60	60	60	10	$\pm S$	$\pm S$	60	50	60	40	—
100	70	70	60	90	60	50	70	50	20	30	68
60	60	70	90	100	130	120	80	70	50	50	—
60	50	40	30	$\pm S$	$\pm S$	$\pm S$	$\pm S$	—	—	—	—
90	50	70	60	—50	50	40	20	10	0	—10	—
30	40	40	10	—10	60	—40	—100	30	—10	—70	—2
130	120	110	90	80	100	70	70	70	30	30	66
140	170	180	180	170	220	130	190	170	110	80	109
20	—20	30	40	40	30	60	70	40	30	30	42
—	—	—	—	—	—	—	—	—	—	—	—
160	90	80	70	70	90	90	$\pm S$	$\pm S$	$\pm S$	$\pm S$	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
70	90	70	80	90	90	70	70	70	60	50	—
140	140	160	170	110	90	60	80	90	100	80	90
80	70	60	70	80	60	40	40	40	20	30	79
130	120	110	130	120	110	70	70	60	40	40	70
110	90	120	130	130	140	130	130	110	70	70	83
60	—10	20	80	80	70	80	30	90	120	140	86
90	90	120	90	90	140	140	140	140	130	140	90
10	60	140	70	20	20	50	70	50	30	30	—
80	180	180	160	130	$\pm S$	110	120	70	80	90	—
190	150	120	100	130	150	160	150	120	90	70	—
81	75	78	82	73	83	71	69	72	59	52	
24	25	25	24	23	21	22	23	23	23	23	

December													
Hour GMT Day	0	1	2	3	4	5	6	7	8	9	10	11	12
1.	80	60	60	50	60	60	50	60	80	70	70	100	130
2.	50	50	50	50	50	50	50	60	80	80	60	80	90
3.	70	80	90	80	80	100	80	—	—	(170)	160	170	180
4.	+S	+S	+S	210	190	+S	+S	+S	+S	160	150	+S	+S
5.	30	30	30	30	30	70	+S	+S	120	130	140	160	130
6.	80	180	+S	20	40	30	40	50	(60)	80	140	90	80
7.	30	20	30	40	40	20	30	60	60	70	130	140	130
8.	100	90	90	90	90	100	90	120	120	110	140	160	130
9.	110	110	120	160	+S	160	+S	+S	+S	+S	+S	140	90
10.	50	60	80	80	60	80	90	40	—	90	100	80	90
11.	10	—60	20	60	50	70	70	20	40	60	60	70	±S
12.	30	20	10	10	30	40	60	50	60	±S	0	60	60
13.	50	40	60	80	110	120	150	130	160	130	90	80	50
14.	—10	—10	—10	—20	0	10	60	50	50	60	50	80	80
15.	80	100	180	170	+S	+S	+S	+S	+S	50	20	10	40
16.	50	70	100	+S	130	80	80	80	50	90	60	60	70
17.	30	20	20	10	40	80	140	170	—	—	130	110	—S
18.	90	70	40	60	80	90	30	40	40	10	—20	50	50
19.	40	60	60	50	50	70	90	110	120	110	110	100	100
20.	±S	±S	+S	30	50	0	—10	—20	—30	50	60	50	90
21.	30	40	90	+S	40	—10	—40	—60	—40	—90	—10	—10	20
22.	40	90	110	110	60	+S	+S	120	—	60	—10	20	30
23.	—30	0	10	30	40	50	80	60	60	70	—	90	100
24.	190	80	—20	30	10	—20	—20	30	40	70	30	30	70
25.	50	—200	—120	30	40	140	170	150	130	120	140	140	140
26.	50	50	50	60	100	80	100	50	—10	10	50	80	80
27.	70	70	80	80	70	60	70	70	70	60	50	30	30
28.	—60	—70	—70	—70	—60	—20	—60	—70	—90	—60	—70	—60	—60
29.	±S	+S	100	140	80	80	100	120	110	90	120	140	130
30.	70	40	120	+S	130	120	80	80	160	160	110	60	90
31.	+S	+S	+S	+S	+S	+S	90	+S	110	80	130	160	+S
Means	51	40	51	62	60	63	64	63	62	71	76	82	82
Number of days	27	27	27	27	28	27	26	25	23	27	29	30	27

13	14	15	16	17	18	19	20	21	22	23	Daily means
70	80	110	120	120	110	70	50	60	60	60	77
120	130	110	120	120	110	100	90	100	120	70	83
130	140	130	170	150	140	140	150	+S	+S	+S	—
180	90	80	100	80	80	80	70	60	30	30	—
170	+S	+S	+S	+S	+S	+S	+S	+S	+S	+S	—
50	0	30	30	30	40	20	—40	20	130	80	—
110	90	100	100	100	130	110	120	90	90	110	81
70	100	100	100	140	160	160	140	120	130	140	116
90	90	80	60	30	70	80	90	80	70	70	—
50	100	80	80	90	100	100	90	90	50	70	78
+S	60	80	110	80	90	90	70	60	50	50	—
60	70	80	70	60	60	80	90	+S	30	40	49
50	60	60	20	40	30	30	10	—10	—10	—10	63
60	20	30	—40	10	—50	—S	±S	170	70	40	—
10	—40	—10	10	0	—30	±S	±S	20	60	30	—
70	60	70	120	110	80	110	90	60	40	40	77
60	90	80	70	90	50	70	110	110	100	80	—
50	80	90	80	80	80	90	70	70	70	60	60
40	90	70	80	90	70	60	60	60	+S	±S	—
110	80	120	140	180	220	200	170	80	90	70	—
—10	20	+S	+S	+S	—40	140	70	30	—30	50	—
0	40	80	—100	—110	—20	30	0	30	30	—40	—
110	110	100	90	110	110	110	80	120	180	150	80
110	40	60	70	10	—50	40	70	30	—30	50	38
160	150	170	170	130	130	120	110	100	100	80	98
60	100	100	120	30	10	—20	—20	100	90	30	56
40	20	30	20	20	20	0	—20	—20	—20	—40	36
—50	—40	—30	—40	—70	—80	—60	—60	—60	50	±S	—55
110	70	120	60	—20	30	130	140	60	50	20	—
—	—	70	100	80	80	70	40	80	110	80	—
200	140	140	140	140	120	100	130	120	10	30	—
79	70	80	75	66	62	80	70	65	61	53	
29	29	29	29	29	30	28	28	28	28	27	

II. Hourly means of the quantities of positive and negative

<u>Hour GMT</u>		0	1	2	3	4	5	6	7	8	9	10	11
Day													
January	+	0	0	0	0	0	0	0	0	0	0	0	0
	—	0	0	0	0	0	0	0	0	0	0	0	0
February	+	0	0	0	0	0	0	2	0	2	11	9	4
	—	0	0	0	0	0	0	0	0	1	10	7	2
March	+	33	1	0	0	0	2	0	13	1	0	1	1
	—	10	4	0	0	0	1	0	1	0	1	2	6
April	+	0	0	0	1	10	7	4	16	2	1	3	44
	—	0	0	0	1	1	10	24	13	2	0	1	96
May	+	0	0	0	0	0	0	0	0	2	7	1	16
	—	0	0	0	0	0	0	0	0	1	5	0	30
June	+	3	11	23	0	16	3	37	19	10	37	58	18
	—	3	16	12	6	17	18	0	42	40	25	20	18
July	+	0	5	17	0	1	0	19	6	0	2	0	0
	—	0	30	2	0	0	0	7	29	0	2	1	4
August	+	0	0	0	0	0	0	0	0	0	0	0	0
	—	0	0	0	0	0	0	0	0	0	0	0	0
September	+	0	0	0	2	8	1	7	0	1	2	0	0
	—	0	0	0	0	6	0	5	1	0	0	0	0
October	+	0	0	0	0	0	0	0	0	0	0	0	0
	—	0	0	0	0	0	0	0	0	0	0	0	0
November	+	2	0	7	0	0	0	0	0	0	1	0	0
	—	8	0	9	0	0	0	0	0	0	0	0	0
December	+	13	7	2	0	0	1	0	0	1	3	0	0
	—	9	10	0	0	0	1	0	0	0	7	0	0

charges transported by point-discharge for each month

12	13	14	15	16	17	18	19	20	21	22	23	Means
0	3	0	0	0	0	0	0	0	0	0	0	0,1
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	2	0	1	0	1	1	1,5
0	0	0	0	0	0	5	0	1	0	0	0	1,1
10	0	3	0	22	6	20	56	1	25	17	1	8,9
38	0	0	1	7	4	24	18	41	21	14	2	8,1
53	5	5	8	6	31	61	61	7	0	2	0	13,6
11	3	6	2	2	10	13	55	0	1	1	0	10,5
28	0	33	0	10	25	39	74	29	21	18	1	12,7
22	5	13	0	4	21	79	7	93	44	15	0	14,1
9	40	93	14	82	56	50	56	28	40	1	10	29,8
99	3	100	60	66	73	79	40	31	5	5	32	33,8
5	33	36	40	72	30	49	65	8	12	4	5	17,0
5	153	175	44	11	28	20	46	12	2	4	5	24,2
15	3	63	37	20	55	14	11	26	10	25	0	11,6
4	0	62	19	39	28	2	28	24	9	10	0	9,4
0	7	40	6	6	32	18	5	4	4	0	0	6,0
1	8	16	0	4	9	11	4	6	0	0	0	3,0
3	0	0	0	0	0	0	0	11	29	0	0	1,8
5	1	0	0	0	0	0	0	11	6	0	1	1,0
0	0	0	0	2	0	0	8	0	0	0	5	1,0
0	1	1	0	1	0	2	8	0	0	0	4	1,4
11	4	2	0	0	0	5	13	14	0	1	11	3,7
13	0	0	0	0	0	2	16	4	0	0	9	3,0