

III. ATMOSPHERIC ELECTRICITY

1. Hourly means of the potential gradient

Atmospheric electricity data have been published since 1962. This table contains the hourly average values of the potential gradient expressed in V/m. The date column gives year, month, day. Hourly averages have been taken only from hours having a recording period of 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 daily means. Values uncertain for some reason are entered in round brackets () and have not been used in calculating 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 direction of the deviations is marked by signs. OBS indicates that the potential gradient exceeded the measuring limits of the equipment both in positive and negative directions. Gaps of some days are generally due to missing records. Data are presented in universal time (GMT).

2. Hourly means of quantities of positive and negative charges transported by point-discharge for each month

In this table the values are expressed in 10^{-6} Asec/hour. The measurements were interrupted between August 11 and November 1, 1993 because of renovation works in the measuring area. Data are presented in universal time (GMT).

Both the equipments and methods of measurements of potential gradient and point discharge have been described in the paper by BENCZE P and MÄRCZ F: "Atmosphärisch-elektrische und ionosphärische Messungen im Observatorium bei Nagycenk". *Observatoriumsberichte des Geophysikalischen Forschungslaboratoriums der Ungarischen Akademie der Wissenschaften vom Jahre 1966*, Sopron, 1967. Further information is given by BENCZE P and MÄRCZ F: "The Geophysical Observatory near Nagycenk. II. Atmospheric electricity and ionospheric measurements" (*Acta Geod. Geoph. Mont. Hung.*, 16, 1981, 353-357).

*1. Hourly means of the
1992*

Date	00	01	02	03	04	05	06	07	08	09	10	11
920101	60	60	50	30	30	30	40	[50]	60	60	70	60
920102	110	100	70	60	50	50	70	100	[100]	[100]	110	100
920103	80	50	50	40	50	60	70	110	[120]	130	150	140
920104	70	90	70	60	60	50	50	80	[90]	110	70	60
920105	60	60	-S	-20	20	20	30	10	[-20]	[20]	10	0
920106	30	0	30	40	40	40	40	(50)	-	90	110	80
920107	40	50	90	70	70	90	80	[90]	130	90	100	80
920108	20	120	150	130	100	120	[140]	130	150	180	130	80
920109	40	40	30	50	60	70	[80]	30	20	30	70	60
920110	-10	-10	0	0	10	20	[20]	20	30	30	10	0
920111	40	10	-10	10	-10	30	20	30	[30]	40	50	70
920112	60	70	60	40	20	40	40	30	[40]	[50]	50	50
920113	40	30	40	30	40	40	40	-	-	80	90	100
920114	60	50	50	70	50	50	60	40	[30]	60	70	60
920115	30	20	20	20	30	40	40	20	[10]	10	20	40
920116	40	40	40	40	30	30	40	[40]	40	60	50	40
920117	50	50	20	30	30	40	40	60	[50]	50	40	40
920118	40	20	20	20	20	20	10	10	[20]	20	40	40
920119	50	50	40	50	40	50	50	40	30	[-10]	20	30
920120	40	30	-10	-60	-10	30	20	[30]	-	-30	-30	10
920121	-20	0	-10	-30	-40	-30	-40	[-30]	30	60	30	90
920122	60	20	0	10	20	40	50	-	60	60	60	60
920123	0	-20	-30	-10	-60	-20	[-30]	-40	-20	-10	10	20
920124	10	0	0	20	-10	30	[40]	[80]	50	20	20	30
920125	10	30	0	30	0	-30	90	80	[80]	40	40	30
920126	100	90	120	90	40	70	60	80	90	[70]	30	40
920127	20	0	-20	-10	-20	-10	20	-	(20)	30	10	30
920128	40	40	50	50	60	60	60	[80]	60	50	40	50
920129	50	60	60	60	30	-10	0	70	[100]	100	100	130
920130	70	40	20	0	0	10	20	[40]	70	90	90	100
920131	40	40	40	40	50	60	60	[60]	80	90	80	90

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	Means
70	80	80	80	80	90	120	150	130	130	120	110	77
110	130	100	100	90	120	110	130	120	80	80	80	95
130	120	120	150	150	140	+S	150	150	150	100	100	109
40	30	50	20	40	60	50	60	60	50	50	50	59
-50	-80	-70	-S	-80	40	50	80	60	50	30	30	11
70	80	70	70	50	40	60	80	90	80	80	80	-
70	90	100	110	90	110	100	80	90	150	130	80	91
100	110	80	70	90	120	120	80	100	80	80	40	105
50	40	60	40	70	70	80	40	30	30	0	-10	45
0	-10	-10	-10	-30	10	-30	-20	-110	-30	-10	10	-5
60	40	30	30	30	40	40	40	50	60	50	70	35
60	50	70	70	80	70	60	40	20	20	40	30	48
80	80	60	60	50	60	60	70	70	60	70	80	-
30	30	50	60	60	60	20	30	40	50	40	30	48
50	70	70	70	50	50	60	60	50	40	40	30	39
60	70	70	80	50	70	60	70	60	60	50	50	52
50	40	50	50	40	30	30	40	30	10	30	40	39
40	60	70	60	40	50	60	60	50	30	40	50	37
20	60	60	80	80	60	60	50	70	80	40	40	48
50	60	70	40	70	90	120	130	40	30	0	10	32
90	80	80	20	20	20	30	0	-60	20	80	+S	17
60	70	80	70	50	50	40	50	50	30	30	20	45
30	20	-10	-50	-40	-10	-10	0	-10	-10	-10	0	-13
40	20	10	0	-40	-20	-10	0	-50	-10	-10	-50	7
40	0	0	50	-60	-50	-40	10	30	100	+S	+S	-
40	50	60	40	40	20	20	0	20	40	30	20	53
50	40	70	70	70	40	40	50	50	60	60	30	-
50	80	70	90	90	40	70	10	0	30	50	60	53
140	140	160	140	140	140	130	120	100	80	80	70	91
130	130	110	100	70	70	90	90	80	70	50	40	66
90	80	70	90	100	100	100	110	90	70	0	30	69

Date	00	01	02	03	04	05	06	07	08	09	10	11
920201	40	40	50	40	30	50	40	50	60	60	[50]	60
920202	10	40	40	70	90	70	70	110	90	[90]	90	80
920203	40	30	20	10	30	20	30	-	[100]	90	90	120
920204	50	50	40	40	50	40	-	[80]	90	80	80	70
920205	OBS	OBS	OBS	OBS	OBS	30	60	70	100	[90]	90	80
920206	-10	-10	-10	0	10	10	10	40	[50]	50	-	-
920207	40	40	30	30	30	40	50	40	[50]	50	60	60
920208	70	70	50	50	60	50	60	70	[80]	80	70	60
920209	70	40	20	20	20	30	40	70	[80]	90	80	0
920210	120	160	80	-10	-30	0	0	20	-	30	30	40
920211	30	40	30	30	30	40	[40]	-	80	70	60	60
920212	70	80	80	60	70	60	70	70	[90]	70	70	60
920213	120	100	100	+S	+S	80	180	120	[80]	80	90	90
920214	-20	20	40	20	10	0	10	30	[30]	40	30	40
920215	40	40	30	30	30	40	40	10	[40]	70	80	100
920216	40	0	-20	-10	-30	-70	30	[50]	[40]	40	40	40
920217	-	-	-	-	-	-	-	-	-	30	30	30
920218	30	30	30	30	20	20	40	50	[50]	50	30	40
920219	10	20	30	30	40	40	50	50	[50]	50	60	60
920220	50	50	40	30	40	40	50	-10	[20]	40	40	50
920221	50	50	50	50	30	40	50	30	[-20]	-30	0	30
920222	20	30	30	0	-10	30	70	160	[130]	80	50	60
920223	50	30	40	30	40	40	0	40	[40]	50	50	50
920224	-	-	-	50	50	50	50	60	-	[80]	80	90
920225	80	50	50	50	50	50	50	[80]	70	50	50	(40)
920226	40	40	40	40	30	40	40	50	(40)	50	(50)	50
920227	50	50	50	50	60	70	50	[70]	[100]	110	120	90
920228	50	40	20	0	0	0	0	40	[50]	60	70	80
920229	50	40	40	40	40	30	30	30	[40]	40	40	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	60	80	90	90	80	50	30	30	10	0	-10	47
70	90	80	70	80	70	70	90	80	60	50	40	71
100	70	70	40	40	30	10	20	30	50	60	50	50
60	50	50	50	60	40	60	50	40	30	30	40	54
80	80	+S	OBS	OBS	OBS	-S	80	80	30	30	0	-
0	30	0	30	-20	-60	30	60	80	70	60	40	-
60	50	50	40	40	60	70	70	70	60	50	70	50
70	60	50	60	70	90	140	110	90	90	80	70	73
-30	10	40	40	60	60	90	+S	120	90	60	80	51
40	20	30	40	40	40	30	40	60	60	30	20	39
50	70	70	60	60	60	70	70	80	70	80	70	57
70	80	70	80	90	90	100	120	90	90	110	120	82
90	90	80	60	60	50	40	40	60	60	50	30	-
50	50	50	50	50	50	60	40	40	50	40	50	35
80	70	80	30	60	50	60	80	80	60	70	80	56
40	50	40	50	50	50	40	40	40	30	30	30	27
30	30	20	OBS	OBS	OBS	20	40	40	40	40	30	-
30	40	50	40	40	40	40	50	50	30	20	10	36
60	60	60	50	60	60	70	70	50	50	50	50	49
50	50	60	20	-10	0	10	30	40	50	50	50	33
40	30	0	-40	-70	-10	0	10	20	40	30	30	17
60	50	50	50	20	-30	-20	0	20	50	80	60	43
-40	-S	-S	-50	-60	20	-	-	-	-	-	-	-
80	90	90	90	80	80	110	120	120	110	80	90	-
(40)	60	50	50	50	50	50	50	50	50	50	40	54
60	60	60	70	60	70	70	70	60	70	70	60	-
100	100	110	100	100	90	110	70	60	50	40	40	77
90	100	100	80	80	70	60	60	60	50	50	50	53
50	50	50	50	40	50	60	40	30	30	20	10	40

Date	00	01	02	03	04	05	06	07	08	09	10	11
920301	20	20	20	10	30	30	30	30	[50]	50	50	60
920302	10	10	10	30	30	30	40	50	-	(60)	(50)	70
920303	OBS	10	20	30	20	30	20	30	[30]	40	30	30
920304	40	40	40	40	30	40	50	50	[40]	50	50	50
920305	40	40	40	40	20	20	30	40	[60]	60	70	70
920306	20	10	10	30	30	30	30	40	[30]	40	40	40
920307	0	10	10	10	10	10	10	(-50)	(-30)	-40	-	-
920308	-	-	-	-	-	-	-	-	-	-	-	-
920309	-	-	-	-	-	-	-	-	-	60	40	50
920310	20	20	20	20	30	30	30	30	[30]	(40)	40	50
920311	10	20	30	0	-20	-20	30	40	[30]	30	30	40
920312	10	10	20	20	20	30	40	40	[40]	30	30	20
920313	30	30	20	20	0	20	20	30	[20]	30	30	30
920314	30	30	20	-	-	-	-	-	-	-	-	-
920315	-	-	-	-	-	-	-	-	-	-	-	-
920316	-	-	-	-	-	-	-	-	-	50	40	40
920317	50	50	40	40	50	50	[70]	80	70	60	70	70
920318	60	40	40	30	30	40	50	50	[60]	50	60	60
920319	10	0	30	30	40	50	70	90	[90]	90	90	70
920320	50	50	50	50	50	60	40	60	[20]	30	40	60
920321	-10	-10	-10	-10	-10	-20	-10	-10	[-10]	-10	-20	-40
920322	10	20	-20	10	20	30	40	50	[50]	40	40	+S
920323	30	30	30	OBS	20	30	50	50	-	(40)	30	30
920324	30	40	30	20	10	30	40	50	[40]	40	40	40
920325	10	10	10	10	-10	-40	-10	0	[0]	0	-10	0
920326	30	30	30	30	20	30	[20]	0	OBS	OBS	OBS	OBS
920327	-80	0	30	20	0	-50	-40	0	0	40	70	60
920328	60	60	40	30	40	50	60	50	[50]	50	50	30
920329	40	40	40	40	40	40	60	[60]	50	OBS	OBS	40
920330	50	40	20	30	40	50	-	-	60	60	60	50
920331	30	30	30	30	20	30	30	[40]	40	(50)	-	-

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	40	40	40	50	40	40	40	30	30	20	10	35
70	60	40	40	60	50	60	50	50	-50	OBS	OBS	-
30	40	40	40	50	50	70	60	50	50	40	0	35
50	60	60	60	70	60	80	70	70	60	50	50	53
70	70	50	50	50	40	30	50	50	30	30	20	45
40	40	40	30	20	10	-70	-20	-10	0	0	-40	16
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
50	60	60	50	60	80	70	70	50	40	30	20	-
60	70	60	50	60	70	60	60	50	50	30	0	41
40	40	40	40	60	50	80	80	60	40	30	20	33
20	20	30	40	40	40	40	40	50	40	40	30	31
30	50	40	40	30	30	20	20	40	40	30	40	29
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
50	30	OBS	OBS	OBS	-10	OBS	OBS	50	50	50	50	-
60	60	70	70	70	70	80	60	60	70	70	70	63
60	60	70	70	60	40	0	0	10	20	30	20	42
60	80	80	70	70	70	70	70	70	60	40	50	60
60	60	50	-10	-10	-100	-100	-50	-10	-10	-10	0	18
-10	20	20	-10	-10	-30	-10	-10	-20	-20	10	10	-10
-S	-20	-S	50	40	30	10	-10	-40	10	30	20	-
+S	OBS	30	30	40	30	30	40	OBS	10	10	20	-
40	30	40	-30	30	50	40	50	30	20	-30	10	29
20	20	50	40	40	50	60	40	50	40	40	50	20
0	-140	-70	-90	20	-20	0	0	10	30	OBS	0	-
60	60	-10	OBS	30	50	70	40	40	50	50	50	24
+S	OBS	-S	30	40	40	60	70	60	50	50	40	-
30	50	50	50	60	60	70	70	70	60	50	50	-
50	50	50	50	40	40	40	50	50	40	30	30	-
-	-	-	-	-	50	60	50	50	40	40	30	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
920401	30	30	30	30	40	30	40	[20]	-20	40	30	30
920402	30	30	30	20	40	30	30	[50]	60	60	60	50
920403	10	30	30	30	30	40	70	[70]	60	60	70	50
920404	20	30	30	30	30	40	50	40	[40]	60	50	50
920405	50	40	30	30	30	30	30	[30]	30	30	30	+S
920406	40	30	20	30	30	20	[10]	-	40	50	50	50
920407	40	50	50	40	50	50	50	[90]	80	70	70	60
920408	40	50	40	40	40	30	40	[50]	50	50	50	60
920409	30	40	40	40	40	30	40	[40]	50	50	50	40
920410	50	40	40	50	50	60	70	[60]	60	60	50	60
920411	40	30	10	20	20	20	40	70	[70]	80	90	90
920412	40	30	30	40	40	30	[30]	40	50	50	60	50
920413	10	10	10	10	10	10	[20]	-	30	-30	10	20
920414	10	10	10	20	30	30	50	[40]	40	30	30	30
920415	30	10	10	10	20	10	0	[20]	30	30	30	-30
920416	-S	-S	-10	-S	-60	OBS	30	10	30	30	30	30
920417	30	30	30	30	20	[30]	10	30	40	30	30	30
920418	30	30	40	40	40	50	[50]	[60]	70	60	(60)	60
920419	20	30	30	50	30	40	30	[30]	30	20	30	30
920420	40	40	40	40	50	60	70	[30]	40	40	50	40
920421	30	30	30	30	40	40	-	[50]	60	60	50	50
920422	30	30	30	40	50	50	[50]	50	50	50	50	40
920423	20	20	30	OBS	OBS	30	[50]	40	50	40	50	30
920424	40	30	30	30	30	[40]	50	50	50	40	40	20
920425	40	30	30	20	30	40	40	40	50	50	[50]	50
920426	50	40	40	30	30	40	40	[50]	50	50	50	40
920427	10	10	10	10	20	30	[40]	-	[30]	30	30	OBS
920428	20	30	30	30	30	30	[50]	60	40	60	40	40
920429	20	-S	20	30	30	20	[30]	20	20	20	30	30
920430	0	0	OBS	-S	0	[-10]	-10	0	(10)	(0)	0	10

12	13	14	15	16	17	18	19	20	21	22	23	Means
40	40	40	30	40	40	40	50	40	50	40	30	34
50	50	30	10	30	30	20	20	30	20	10	10	33
40	40	30	30	40	40	40	30	30	30	30	20	40
50	60	50	50	70	60	50	50	50	60	50	50	47
OBS	50	60	70	-S	30	50	70	70	60	50	50	-
60	70	70	80	80	80	70	100	80	60	50	50	53
70	70	60	50	60	60	70	60	50	50	40	40	58
50	50	50	50	60	50	50	50	40	50	40	20	46
50	50	60	50	50	50	40	40	30	40	40	40	43
60	60	80	90	80	80	80	110	70	50	50	50	63
80	90	80	70	70	70	50	40	40	40	40	30	53
60	60	60	70	50	40	40	40	30	30	20	10	42
10	30	30	30	20	-40	OBS	OBS	OBS	-10	+S	20	-
30	30	30	30	30	30	30	40	30	30	30	20	29
-S	-50	-10	10	20	30	30	30	20	10	+S	+S	-
30	30	40	40	30	40	40	40	30	10	30	30	-
30	30	30	30	40	40	40	30	40	40	30	30	31
50	60	50	50	60	50	50	60	60	60	60	60	52
20	30	30	-S	30	OBS	10	-S	30	60	60	50	-
40	40	30	40	40	70	70	60	50	40	40	30	45
50	50	40	40	40	30	30	30	30	40	30	30	40
30	-S	OBS	OBS	OBS	20	20	20	50	40	30	-S	-
40	+S	-30	10	40	30	30	30	30	30	30	30	-
20	30	30	30	30	30	40	40	40	30	20	20	34
40	40	30	30	30	40	40	30	30	40	40	40	38
50	40	OBS	-S	+S	20	20	30	30	20	20	10	-
OBS	OBS	OBS	OBS	30	30	OBS	OBS	OBS	0	20	30	-
30	30	40	40	30	40	30	30	30	30	30	30	35
30	30	30	30	30	20	OBS	OBS	-20	0	20	-50	-
10	0	10	30	30	30	30	30	30	40	-S	30	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
920501	40	OBS	+S	30	20	60	[10]	20	50	30	30	20
920502	30	10	0	20	30	20	20	10	[30]	30	30	30
920503	30	30	30	30	20	40	[40]	40	60	50	40	40
920504	0	10	0	10	0	-10	10	-	[30]	30	30	30
920505	30	30	30	30	30	30	[30]	40	50	60	70	70
920506	-10	-10	10	10	20	[10]	-	50	50	(60)	(60)	60
920507	0	0	0	10	0	[20]	30	20	30	30	40	40
920508	30	30	30	30	30	[30]	(60)	40	30	30	30	30
920509	30	30	30	30	30	30	[30]	[40]	30	30	30	OBS
920510	10	0	10	10	OBS	30	[30]	OBS	-10	40	30	30
920511	0	10	10	10	20	10	-	-	[30]	20	30	20
920512	30	30	30	30	40	[50]	50	50	40	50	40	50
920513	30	20	30	30	30	[40]	50	40	50	50	50	50
920514	10	20	20	20	20	[60]	80	50	50	50	50	50
920515	10	20	30	20	30	[50]	50	40	50	40	40	40
920516	10	30	30	10	10	50	40	40	[50]	50	50	60
920517	10	10	20	30	30	10	30	30	[40]	[60]	50	50
920518	50	40	40	30	50	50	[60]	-	50	50	60	70
920519	60	70	70	60	50	[60]	70	70	60	50	50	40
920520	10	10	10	20	20	[30]	20	10	10	10	20	30
920521	20	10	20	10	20	+S	OBS	-10	30	30	30	20
920522	20	20	20	30	40	[40]	40	40	40	40	40	40
920523	20	10	20	20	30	30	30	30	[30]	40	30	30
920524	20	20	10	10	20	40	50	50	50	[50]	40	40
920525	20	20	30	30	40	40	40	-	40	40	30	30
920526	30	20	30	20	30	40	40	[30]	40	40	40	50
920527	10	10	10	20	30	40	40	[40]	50	60	60	50
920528	20	20	20	-60	30	40	50	[50]	50	50	50	50
920529	20	20	20	30	20	[10]	20	20	30	30	40	30
920530	20	10	10	20	10	30	30	[40]	50	50	50	50
920531	20	10	20	10	10	40	[40]	50	50	50	50	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	30	30	20	0	0	0	-10	20	20	20	20	-
30	30	30	30	30	30	30	30	30	30	30	30	26
50	60	50	50	30	30	30	10	10	10	10	0	33
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60	60	60	50	50	60	60	40	30	30	20	0	43
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40	40	50	40	30	30	30	30	30	30	30	30	26
30	30	30	30	30	30	30	30	30	30	30	30	30
OBS	OBS	-S	20	10	10	30	30	10	20	OBS	0	-
OBS	0	30	+S	+S	OBS	-S	20	20	10	0	10	-
30	40	+S	OBS	OBS	OBS	OBS	OBS	-S	30	30	30	-
50	50	40	50	40	40	30	30	30	40	30	30	40
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70	60	60	50	50	50	70	70	70	60	70	20	54
40	40	30	10	20	40	30	20	-10	10	10	10	40
50	50	40	40	30	30	20	20	30	20	10	20	23
30	30	40	40	40	40	40	40	30	30	20	20	-
40	50	50	40	40	40	30	30	20	30	20	10	34
OBS	OBS	-S	50	OBS	-S	40	50	OBS	10	20	20	-
40	40	50	50	40	40	30	40	40	30	20	20	35
40	50	50	50	40	40	30	40	30	30	40	30	36
40	40	40	40	40	30	30	30	30	30	30	10	33
50	50	50	50	50	50	50	70	40	30	30	20	40
40	50	40	40	40	50	50	40	40	30	30	30	35
20	30	50	50	50	50	50	40	40	30	40	40	33
40	40	40	50	40	40	40	30	30	30	40	30	34
50	50	50	50	40	30	40	30	30	30	20	20	35

Date	00	01	02	03	04	05	06	07	08	09	10	11
920601	10	20	10	10	20	20	20	-	10	0	-20	+S
920602	30	30	10	10	20	[-10]	10	0	0	10	10	10
920603	30	30	20	30	30	[30]	[30]	0	30	20	30	20
920604	-10	-10	-10	0	20	[10]	30	70	60	110	30	50
920605	10	10	10	30	-S	OBS	+S	30	20	20	30	60
920606	30	30	30	30	30	30	[30]	80	30	10	60	+S
920607	0	10	0	10	10	20	30	[40]	30	40	30	10
920608	10	0	0	10	10	20	-	(30)	40	0	10	20
920609	50	20	30	30	-20	[-20]	OBS	OBS	-70	-30	-80	20
920610	20	10	10	10	20	[30]	40	30	+S	OBS	OBS	OBS
920611	30	10	20	20	30	20	20	20	[30]	30	30	20
920612	20	30	30	-10	-10	[-20]	[30]	40	80	70	-S	OBS
920613	20	30	20	60	40	30	[-10]	[-20]	10	80	150	100
920614	10	10	10	10	20	30	[40]	[40]	50	40	40	40
920615	30	40	40	50	60	60	-	-	50	70	70	70
920616	30	30	30	30	40	[50]	40	50	40	50	50	60
920617	0	-10	-10	-10	0	[10]	30	50	50	60	70	60
920618	30	20	20	30	30	[40]	50	50	60	60	60	60
920619	20	20	20	20	40	[50]	50	60	50	50	50	50
920620	30	30	30	30	40	40	[40]	[50]	40	50	70	60
920621	0	10	10	20	20	30	30	30	[40]	50	50	50
920622	10	10	20	20	20	30	20	-	40	50	60	50
920623	10	20	10	10	10	[30]	40	30	40	10	-10	-20
920624	20	10	10	30	30	[30]	40	40	40	50	50	50
920625	40	50	40	20	40	[60]	70	40	40	50	40	60
920626	30	20	10	20	20	[30]	40	40	50	80	60	70
920627	50	40	40	40	40	50	70	60	[70]	[40]	40	40
920628	30	40	40	30	30	20	[40]	[50]	70	80	50	50
920629	20	30	20	30	20	30	40	-	40	40	60	50
920630	10	10	20	10	10	[20]	[30]	30	30	40	40	30

12	13	14	15	16	17	18	19	20	21	22	23	Means
-30	10	30	0	10	20	20	30	30	30	50	40	-
10	10	20	30	30	30	30	30	30	20	30	30	18
30	50	+S	OBS	OBS	OBS	+S	OBS	20	-10	-20	-40	-
40	30	40	50	50	30	30	30	20	20	0	10	29
OBS	+S	OBS	OBS	OBS	10	30	30	30	30	30	20	-
OBS	OBS	+S	OBS	OBS	-10	-20	-100	30	10	20	0	-
-20	-S	-S	10	30	+S	-10	0	20	10	20	10	-
30	10	+S	-60	OBS	OBS	-60	70	60	80	80	60	-
30	70	60	60	30	20	20	10	10	10	0	20	-
30	30	40	50	40	40	30	30	30	30	40	30	-
20	30	10	50	OBS	OBS	0	0	0	10	-10	10	-
+S	40	40	20	20	30	40	60	50	40	20	OBS	-
80	OBS	OBS	OBS	30	30	20	10	20	20	20	10	-
30	-S	OBS	30	50	50	40	40	40	20	10	30	-
70	80	70	60	50	50	50	50	50	50	30	30	-
50	50	50	50	50	50	40	30	30	30	30	20	41
70	70	60	50	50	40	40	40	40	40	40	40	37
60	60	60	60	60	70	70	50	40	30	20	20	46
50	50	50	50	50	50	50	OBS	+S	30	50	40	-
50	50	60	40	20	30	40	20	10	10	10	10	36
50	50	50	50	40	40	30	20	20	30	30	20	32
50	40	30	30	30	40	40	30	30	20	30	20	31
-20	0	-10	10	0	30	30	30	30	40	40	30	16
-S	-S	60	80	10	+S	OBS	OBS	30	70	60	30	-
70	70	70	70	80	60	50	40	40	30	20	30	49
60	70	70	80	80	80	80	90	80	90	80	80	59
40	40	30	40	40	50	40	30	40	40	40	40	44
60	70	60	60	50	40	30	40	40	30	30	30	45
50	50	60	60	50	40	40	40	30	30	20	20	38
40	50	50	50	40	40	40	30	30	20	20	10	29

POTENTIAL GRADIENT

Date	00	01	02	03	04	05	06	07	08	09	10	11
920701	10	20	30	20	30	[30]	30	40	40	30	30	30
920702	20	10	10	20	30	[40]	50	40	60	60	60	40
920703	40	30	20	20	30	[40]	30	30	30	50	60	70
920704	0	0	10	10	20	30	20	20	[30]	[20]	30	30
920705	30	20	20	20	30	30	[30]	30	20	30	40	40
920706	30	40	30	30	30	-20	-	-	20	40	40	40
920707	30	20	30	30	30	[40]	50	50	50	50	70	70
920708	20	30	30	30	40	[40]	-	-	30	30	40	40
920709	20	20	20	20	40	[70]	40	30	40	40	30	40
920710	20	20	20	20	30	[20]	30	30	40	40	30	30
920711	0	10	20	30	40	[60]	40	40	40	40	40	40
920712	50	20	20	20	30	20	50	[50]	10	50	70	50
920713	40	40	70	60	50	40	-	-	50	30	90	50
920714	30	30	30	40	40	[50]	50	60	60	60	60	60
920715	30	40	40	30	30	40	[50]	[OBS]	-S	120	OBS	+S
920716	20	20	30	30	40	60	70	[90]	80	60	60	60
920717	10	20	10	20	30	[40]	30	30	30	40	50	50
920718	30	20	20	30	[30]	40	30	-S	-S	50	50	50
920719	50	40	30	30	[30]	30	40	40	60	50	60	50
920720	0	0	10	10	10	30	-	-	30	40	40	40
920721	30	20	20	30	40	40	[30]	30	30	30	40	30
920722	40	40	30	60	60	[60]	40	40	40	40	40	50
920723	30	20	10	10	20	[20]	20	30	40	40	40	40
920724	40	30	40	40	40	[40]	70	80	80	90	80	70
920725	30	30	30	40	40	60	[70]	[70]	80	70	80	80
920726	10	20	10	20	20	30	40	40	[50]	50	60	70
920727	20	20	10	10	10	20	-	-	50	60	60	70
920728	30	30	30	30	20	30	[-10]	50	70	60	50	60
920729	30	30	30	30	30	[40]	[40]	60	40	40	40	30
920730	20	10	10	10	10	[20]	30	-S	OBS	-60	-60	-30
920731	30	30	30	30	30	40	40	50	[50]	30	50	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	30	40	40	40	40	50	40	30	30	20	20	31
50	50	60	60	50	40	50	50	50	50	40	40	43
70	70	70	80	OBS	OBS	-10	30	10	20	20	10	-
30	30	30	30	30	40	40	40	30	30	30	20	25
40	40	40	40	40	50	40	40	40	30	20	30	33
40	40	40	40	20	30	50	40	30	30	30	30	-
OBS	OBS	OBS	OBS	OBS	40	40	30	30	30	20	30	-
40	20	30	30	30	40	40	50	40	40	30	30	-
40	40	40	40	50	50	40	40	40	30	30	30	37
40	40	30	30	40	60	-S	OBS	30	40	20	30	-
40	40	40	50	40	OBS	OBS	50	+S	OBS	OBS	OBS	-
60	70	60	50	60	50	40	40	40	30	40	40	43
30	20	20	10	10	20	30	40	50	40	30	30	-
60	70	70	70	60	60	60	60	50	50	40	40	53
OBS	OBS	-S	50	50	50	40	40	30	20	10	10	-
60	60	70	50	60	40	40	40	40	40	30	20	49
40	40	50	60	50	40	30	30	30	30	30	30	34
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40	40	50	50	50	40	50	50	40	20	10	0	40
40	40	50	60	50	40	40	30	30	40	30	20	-
30	30	40	50	40	40	50	50	50	40	50	50	37
50	50	40	50	40	50	40	40	40	50	40	20	44
40	40	40	40	40	40	40	50	60	60	60	40	36
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20	20	30	20	20	40	40	30	40	40	30	30	33
10	60	30	30	30	30	40	30	30	30	40	40	-
0	20	30	30	OBS	OBS	OBS	30	30	30	30	60	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
920801	OBS	OBS	OBS	10	20	40	[50]	60	60	40	40	40
920802	OBS	OBS	-20	10	[10]	[10]	10	20	40	70	60	50
920803	30	20	20	10	30	-	(40)	40	50	50	50	50
920804	20	10	20	10	20	30	[40]	[40]	40	-	-	-
920805	-	-	-	-	-	-	-	-	-	-	70	60
920806	20	20	20	30	30	[40]	50	60	60	30	40	40
920807	30	40	40	30	30	[40]	60	50	50	50	50	40
920808	0	0	0	10	10	10	30	30	[20]	[30]	40	50
920809	20	20	20	20	20	30	40	40	40	[40]	30	30
920810	30	30	30	20	30	-	[40]	50	40	40	30	30
920811	30	40	40	40	40	[40]	50	50	50	50	50	50
920812	30	30	20	20	20	[20]	OBS	OBS	OBS	50	50	50
920813	20	10	10	20	20	40	[50]	30	30	30	40	30
920814	30	30	30	20	20	30	[30]	40	50	50	50	30
920815	30	30	20	10	30	40	40	40	[40]	40	40	50
920816	10	10	20	10	20	30	[40]	50	50	60	70	50
920817	30	30	30	30	30	30	-	-	50	50	50	40
920818	20	20	30	30	20	[30]	[40]	-S	40	50	50	50
920819	40	30	30	30	30	[40]	50	-S	40	30	20	30
920820	20	10	10	10	20	30	[30]	40	40	50	50	40
920821	40	30	30	20	30	20	30	30	30	30	[40]	40
920822	10	10	10	10	10	20	20	30	[30]	40	40	40
920823	30	20	20	30	20	20	30	30	[40]	40	OBS	OBS
920824	40	30	30	30	20	30	[50]	-	50	50	50	50
920825	30	30	20	20	20	[30]	[40]	40	40	30	40	40
920826	30	30	20	20	30	[40]	30	40	50	40	50	50
920827	30	30	30	30	20	[30]	[30]	40	40	40	40	50
920828	20	10	10	20	30	[30]	40	40	40	30	30	40
920829	30	30	30	30	40	40	[40]	50	40	30	20	20
920830	30	30	30	20	20	20	[30]	30	30	20	10	0
920831	30	30	40	40	30	30	-	-	60	40	50	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
40	50	50	-S	-S	OBS	OBS	OBS	+S	+S	70	OBS	-
40	60	60	60	50	30	40	40	40	30	30	30	-
50	50	50	60	40	40	40	40	40	30	40	30	-
-	-	-	-	-	-	-	-	-	-	-	-	-
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40	50	50	60	50	40	20	30	30	10	10	10	38
40	40	50	40	40	40	40	40	40	40	30	30	29
30	40	40	40	40	40	60	50	50	40	40	40	36
30	30	30	30	30	40	40	40	60	30	+S	30	35
50	50	50	50	50	40	50	50	40	30	30	30	44
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40	40	40	40	40	50	50	50	50	40	40	40	36
20	30	30	20	30	30	40	40	40	40	30	30	33
20	20	30	30	30	30	30	40	40	40	30	30	27
20	-10	10	20	30	40	50	50	50	-	-	-	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
920901	-	-	30	10	0	-10	OBS	OBS	OBS	OBS	OBS	OBS
920902	40	40	40	40	40	[50]	50	50	40	50	40	40
920903	40	30	30	30	30	[40]	50	60	60	50	50	50
920904	40	30	40	30	20	[0]	0	-30	-40	-10	-100	-S
920905	10	0	-90	0	20	20	[40]	40	40	40	60	50
920906	50	50	50	50	40	50	50	40	[50]	50	50	(40)
920907	30	30	40	30	40	40	40	-	-	50	50	50
920908	30	30	30	40	30	[40]	50	40	40	50	40	50
920909	20	30	30	20	10	[-30]	-20	20	50	50	50	50
920910	30	20	30	20	30	[30]	40	40	30	30	40	40
920911	30	20	10	20	30	[40]	40	40	40	40	50	50
920912	40	30	40	40	30	20	30	40	[40]	40	50	50
920913	30	20	30	30	30	[40]	50	50	50	50	50	50
920914	20	10	20	20	30	30	[30]	-	30	40	50	50
920915	20	20	30	30	40	[40]	70	70	70	70	60	50
920916	40	30	40	40	40	[40]	50	60	50	50	50	50
920917	20	20	30	30	30	[30]	40	50	50	50	60	60
920918	40	40	30	20	40	[50]	60	70	80	80	80	80
920919	40	40	40	30	40	40	[50]	50	50	50	50	50
920920	30	20	20	30	50	[40]	50	50	30	30	40	50
920921	20	20	30	30	20	30	[30]	-	40	40	40	30
920922	30	30	30	30	30	30	[40]	(40)	40	40	40	(40)
920923	40	30	30	40	30	30	[40]	40	30	40	40	40
920924	50	50	40	30	30	[30]	40	50	50	40	40	40
920925	40	40	40	30	30	40	50	[40]	30	30	0	20
920926	30	30	20	30	40	30	40	30	[30]	[30]	30	20
920927	30	20	30	30	40	40	40	40	[50]	40	60	50
920928	30	40	40	40	50	40	30	-	[30]	40	40	50
920929	10	20	20	20	10	20	30	[40]	40	40	30	40
920930	10	10	0	20	20	40	[50]	60	50	60	60	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	60	50	30	40	40	40	40	40	40	40	40	-
40	40	40	30	30	30	40	40	30	40	50	50	41
50	50	50	50	50	40	40	40	30	30	30	40	43
OBS	OBS	OBS	-20	50	50	20	10	10	20	0	0	-
50	50	50	50	50	50	50	30	OBS	OBS	50	50	-
40	40	40	40	40	30	-S	40	40	40	30	40	43
(50)	50	50	40	40	50	50	50	50	50	40	30	-
50	40	50	50	50	50	50	40	40	40	30	20	41
50	60	60	50	50	50	60	50	50	50	40	40	37
40	30	40	40	40	40	40	30	30	30	30	30	33
50	50	50	50	50	50	50	70	50	50	40	40	42
50	50	40	40	40	30	30	40	40	40	30	30	38
40	40	40	40	40	40	40	40	40	40	30	20	39
40	30	OBS	-S	-	-	-	10	10	20	30	30	-
50	50	50	40	50	40	40	50	40	40	40	30	45
50	50	50	50	50	50	50	60	70	80	50	30	49
70	60	60	50	50	60	50	50	50	50	40	40	46
90	90	90	70	60	60	60	50	50	60	50	40	60
50	50	50	60	50	50	50	40	40	40	50	40	46
50	50	50	40	40	40	40	40	30	30	30	20	38
30	20	30	40	40	40	50	60	50	50	40	40	36
40	40	30	40	40	40	40	60	50	50	40	40	-
40	40	30	40	40	40	40	40	50	50	40	40	38
30	20	20	30	20	20	30	30	40	40	30	40	35
30	40	40	40	40	40	50	40	40	40	30	30	35
30	30	30	40	40	40	40	50	40	40	40	40	34
60	70	50	40	30	30	40	40	30	40	40	30	40
(40)	40	40	40	50	50	50	40	40	40	40	30	41
30	70	OBS	OBS	+S	50	+S	OBS	OBS	OBS	10	20	-
60	70	70	70	60	40	50	40	40	30	30	40	43

Date	00	01	02	03	04	05	06	07	08	09	10	11
921001	20	30	30	30	40	40	[30]	30	40	40	40	40
921002	10	10	10	OBS	-S	20	[40]	40	40	40	40	40
921003	30	30	30	20	30	30	30	40	30	20	30	40
921004	10	-S	-20	-60	30	40	80	[70]	100	50	60	50
921005	0	0	10	20	10	10	30	40	-	50	80	60
921006	0	10	10	10	10	10	0	10	[10]	40	50	50
921007	40	40	30	30	30	30	30	40	[40]	40	40	30
921008	10	0	10	20	30	20	20	30	[30]	30	40	40
921009	40	50	50	50	40	40	70	80	[70]	40	40	30
921010	40	30	20	20	20	40	30	20	-10	-10	-40	-30
921011	40	10	20	20	30	20	30	[20]	[20]	60	90	70
921012	40	30	40	40	30	30	50	-	-	-	50	50
921013	50	40	40	40	40	50	[50]	50	40	40	50	50
921014	20	10	0	0	10	0	[20]	30	40	40	50	50
921015	30	20	10	30	50	50	[0]	10	30	30	30	30
921016	30	40	30	60	100	90	60	70	[50]	40	30	0
921017	50	40	40	40	40	40	30	[50]	10	20	+S	20
921018	10	-20	-80	-40	-10	-10	-10	[0]	40	70	60	50
921019	30	30	30	20	30	30	30	40	-	40	40	50
921020	0	-20	-10	0	10	0	[20]	30	40	40	50	50
921021	50	40	50	60	70	70	[70]	60	50	40	40	40
921022	20	0	70	10	0	30	40	[50]	60	50	40	30
921023	30	20	30	20	20	30	40	60	50	[50]	50	40
921024	50	50	40	50	50	40	50	[50]	[40]	40	OBS	OBS
921025	40	30	20	0	20	30	40	[40]	50	50	50	50
921026	40	50	10	10	0	40	40	-	-	(50)	40	40
921027	20	20	30	30	30	20	[30]	[40]	50	50	50	40
921028	30	40	40	50	60	70	70	[40]	[40]	10	-10	20
921029	30	10	20	70	40	-10	OBS	OBS	OBS	OBS	OBS	OBS
921030	30	40	40	30	50	40	30	10	10	-30	-100	-100
921031	-10	-20	-10	-0	-0	10	20	20	30	50	50	100

12	13	14	15	16	17	18	19	20	21	22	23	Means
40	50	40	40	40	30	20	20	10	20	20	10	31
50	40	30	30	30	20	30	40	30	30	30	20	-
30	[20]	40	30	40	40	20	10	20	10	20	20	28
40	50	20	20	-10	10	20	20	20	20	20	20	25
50	50	40	50	OBS	OBS	-	-	-	-	-	10	-
50	50	50	50	50	50	50	50	40	40	40	40	32
40	40	30	30	20	30	40	40	30	20	20	0	32
50	60	60	60	50	50	60	50	50	40	30	40	37
30	30	40	50	40	40	40	40	40	40	40	50	45
-20	0	10	20	20	10	30	20	10	20	30	20	13
90	70	90	80	70	60	70	60	50	50	40	40	50
40	50	50	60	60	70	90	90	70	50	50	50	-
50	50	50	50	40	50	40	40	30	20	20	10	41
50	50	50	50	50	40	30	30	20	-10	20	30	28
50	40	50	40	40	40	50	20	30	40	30	40	33
-10	-70	-40	-10	20	10	20	-10	10	20	30	40	25
-10	-40	10	40	90	100	+S	-20	OBS	OBS	10	10	-
40	30	30	40	50	50	50	60	50	40	40	30	24
50	50	50	50	50	50	50	40	30	30	20	10	37
30	40	10	30	30	0	-30	20	40	20	0	30	18
40	20	20	-10	30	-20	30	0	+S	-30	20	20	33
30	40	50	50	50	60	70	60	60	50	50	40	42
50	40	50	50	50	50	40	30	40	40	30	40	40
OBS	OBS	0	30	40	50	50	50	50	40	50	40	-
60	50	50	40	40	40	40	40	50	40	30	40	39
40	30	+S	20	OBS	OBS	OBS	+S	+S	30	30	30	-
40	40	40	50	40	30	30	40	30	20	10	20	33
30	40	40	40	40	50	50	40	40	50	50	70	42
30	50	30	-S	0	40	50	50	40	40	40	30	-
-40	20	0	30	20	30	20	30	40	0	0	-30	7
70	20	-20	-30	-20	10	30	40	40	30	40	40	20

POTENTIAL GRADIENT

Date	00	01	02	03	04	05	06	07	08	09	10	11
921101	40	30	30	40	40	30	40	[50]	40	60	60	50
921102	0	10	10	-10	-10	0	-10	-10	-	10	-10	0
921103	0	-10	-10	30	10	30	[40]	60	40	30	+S	40
921104	+S	10	20	30	30	40	40	[40]	60	40	30	30
921105	20	30	30	30	30	30	40	[60]	80	70	60	40
921106	10	10	10	10	30	30	40	[60]	40	40	40	40
921107	70	80	70	80	70	90	120	90	80	[40]	[80]	70
921108	30	30	60	60	70	40	60	[40]	40	30	40	60
921109	40	40	30	30	40	80	90	110	-	50	40	40
921110	30	30	30	20	30	30	20	10	[10]	20	30	30
921111	50	50	60	80	80	60	50	70	[40]	70	60	60
921112	-	-	-	-	-	-	-	-	-	-	-	-
921113	-	-	-	-	-	-	-	-	-	-	40	40
921114	50	50	40	30	-	30	40	50	[50]	40	40	40
921115	40	40	40	40	40	30	40	50	[60]	60	60	60
921116	100	80	70	60	50	50	50	[60]	-	70	60	40
921117	0	20	40	80	90	90	60	50	[80]	130	90	30
921118	10	10	10	20	30	30	40	50	[70]	70	60	50
921119	50	40	60	60	70	60	80	70	[60]	60	60	40
921120	40	50	40	40	50	60	-	-	-	-	-	-
921121	60	60	70	70	60	60	80	90	[70]	80	100	60
921122	60	20	-40	-10	-100	+S	OBS	-40	-50	-20	-40	OBS
921123	20	0	10	30	0	-30	-50	-40	-	-10	-10	40
921124	170	120	130	110	160	160	-	0	10	50	30	40
921125	30	40	70	20	30	[40]	[20]	30	60	80	60	80
921126	30	30	20	30	30	60	60	70	[70]	80	70	60
921127	30	30	20	30	40	40	70	60	[50]	60	50	40
921128	40	50	40	40	60	50	50	[40]	30	-30	-80	-70
921129	-20	0	10	10	10	30	70	[80]	100	90	90	80
921130	30	40	50	40	40	40	40	[30]	-	40	60	70

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	50	50	50	30	30	40	30	20	20	20	10	38
10	30	10	20	20	0	-10	0	0	-10	0	0	2
20	-20	-30	-40	-60	-70	10	OBS	OBS	OBS	0	OBS	-
40	60	40	60	10	0	60	60	70	30	20	30	37
40	10	30	70	40	20	-10	-10	10	10	30	20	33
40	60	70	70	90	100	90	80	70	70	70	70	52
70	40	30	20	30	90	100	130	190	220	+S	+S	-
40	30	60	80	80	80	70	30	70	70	70	80	57
50	60	60	50	30	30	10	10	10	10	20	20	41
30	20	20	30	40	60	80	90	80	60	30	50	37
50	40	30	10	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
40	50	60	60	70	90	90	110	70	20	10	40	-
30	0	20	40	70	80	70	70	60	60	50	40	46
40	50	50	40	40	60	70	80	100	120	110	110	60
30	20	70	OBS	-S	OBS	+S	-10	-20	-10	-10	+S	-
70	60	40	30	+S	-S	-70	-10	20	20	10	10	-
50	50	40	50	50	50	60	70	70	80	80	60	48
0	6	10	-S	20	80	80	60	60	60	40	40	53
-	60	100	80	100	100	100	100	80	70	70	60	-
30	30	30	40	70	100	100	100	90	70	30	30	66
-20	-10	50	+S	0	20	0	20	30	-20	40	30	-
40	80	30	40	10	20	30	90	90	90	120	130	32
-10	100	50	30	30	80	90	30	90	30	40	30	68
60	70	70	80	80	90	70	40	20	40	50	40	53
80	80	90	40	0	60	60	80	60	30	30	40	53
40	40	50	70	70	90	90	90	80	80	90	60	57
-40	-50	-40	-30	-20	-30	-20	-30	-30	0	0	10	-3
70	70	70	50	50	40	50	70	60	60	40	40	47
60	30	20	20	20	10	10	0	0	0	-10	-10	27

Date	00	01	02	03	04	05	06	07	08	09	10	11
921201	-10	-10	-10	-10	-10	0	0	10	[20]	30	40	40
921202	30	0	0	10	10	0	0	0	0	0	0	0
921203	0	20	40	40	40	40	50	[50]	(70)	60	60	60
921204	40	30	-10	+S	OBS	OBS	60	40	[20]	50	50	50
921205	40	40	50	40	40	30	30	40	[40]	40	40	-20
921206	-10	0	0	0	10	-10	-10	-10	-10	-10	-20	-10
921207	10	20	30	40	50	50	50	(60)	(80)	80	70	70
921208	40	40	20	40	40	10	30	30	40	50	50	80
921209	90	90	80	90	80	80	50	60	50	50	[30]	30
921210	10	10	10	0	0	0	0	0	10	[0]	30	30
921211	30	30	40	30	30	30	40	40	50	60	50	[70]
921212	10	20	30	70	60	50	50	-S	-70	-110	-80	30
921213	40	40	40	40	40	40	50	70	[70]	60	60	50
921214	50	50	40	40	60	30	+S	+S	-	-30	-10	-20
921215	70	80	70	80	60	40	60	60	90	[100]	100	110
921216	40	20	20	40	0	-30	10	10	[10]	0	-10	20
921217	-10	0	20	0	30	80	30	30	10	[10]	[10]	0
921218	30	30	30	20	30	30	30	10	40	[30]	[30]	30
921219	10	20	-10	-20	-10	10	10	-10	-10	[0]	20	20
921220	30	10	20	0	30	30	20	20	[20]	[30]	40	40
921221	20	20	30	40	40	40	40	30	-	-	20	30
921222	10	20	-40	-10	30	30	50	30	[20]	10	0	-50
921223	60	50	30	20	-10	0	20	30	50	[50]	60	80
921224	50	50	50	50	40	50	30	30	[30]	[30]	30	30
921225	30	30	30	30	30	30	30	40	[30]	40	30	40
921226	10	20	30	30	30	30	30	30	30	[30]	30	40
921227	40	50	40	30	40	30	10	30	60	40	[30]	50
921228	30	30	0	10	20	20	30	-	40	60	70	80
921229	50	40	30	50	60	50	50	70	90	[120]	130	130
921230	70	70	80	70	60	60	60	50	[80]	[90]	90	110
921231	70	60	40	60	60	50	30	30	[40]	40	70	70

POTENTIAL GRADIENT

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	40	40	20	20	40	40	40	30	20	20	20	20
0	30	40	20	0	0	0	10	20	30	20	20	10
70	60	50	50	60	40	50	50	50	60	50	40	47
50	50	60	70	70	50	60	70	70	60	50	40	-
-30	20	-10	0	20	-10	-20	10	-20	-20	-20	-20	13
-10	-10	-10	-10	0	0	0	-10	-10	-10	0	10	-6
70	70	60	70	70	60	40	50	40	30	40	40	-
70	90	90	80	70	80	100	110	100	100	100	90	65
60	30	40	20	30	40	60	20	10	20	30	20	48
20	10	20	0	10	0	-10	0	10	10	-20	30	8
90	90	90	90	100	150	120	100	80	70	70	0	65
30	40	30	60	70	60	70	70	60	40	50	40	30
60	50	-S	50	50	70	80	50	50	50	50	50	53
30	50	70	120	110	80	70	40	70	60	70	70	-
100	100	120	130	120	100	110	100	130	120	80	40	90
10	20	20	30	0	30	30	20	30	10	30	10	15
-10	10	30	60	60	80	40	70	40	30	30	50	29
30	30	30	20	20	10	20	40	20	-20	-20	20	23
30	30	40	30	30	40	50	70	40	40	40	40	21
30	30	50	70	40	40	40	40	40	30	10	10	30
30	30	30	60	50	100	60	60	40	30	-10	30	-
10	20	30	30	30	20	30	50	60	50	50	40	22
70	70	70	80	90	80	100	100	90	70	60	40	57
60	50	40	40	30	70	70	60	40	60	50	50	45
40	40	40	40	40	40	40	30	30	30	30	30	34
30	40	30	40	50	50	50	60	60	50	50	50	38
40	50	50	20	10	0	30	-10	30	-10	0	30	29
80	90	90	70	60	60	60	70	70	60	60	50	53
130	120	100	90	80	100	120	120	140	170	140	90	95
130	140	120	130	100	80	80	130	100	110	80	70	90
70	70	80	90	50	50	40	30	30	30	20	10	50

*Hourly means of the
1993*

Date	00	01	02	03	04	05	06	07	08	09	10	11
930101	10	20	10	10	40	40	80	80	[80]	80	70	60
930102	30	20	10	10	10	0	20	20	40	90	[100]	100
930103	-30	-40	-30	-10	-10	-10	20	30	60	[70]	90	90
930104	70	60	60	70	80	80	70	70	-	80	70	50
930105	-10	-20	-60	-60	-20	-60	-70	[-30]	-10	50	60	60
930106	20	-10	-20	-30	-40	-40	40	[70]	[100]	80	80	80
930107	70	50	50	60	60	50	40	0	40	[-10]	40	30
930108	60	50	60	60	50	30	30	0	-60	[-10]	-20	-80
930109	0	30	40	50	50	50	50	60	[70]	70	70	80
930110	110	120	120	90	90	100	120	+S	[120]	110	120	110
930111	160	130	150	170	140	140	150	80	-	[110]	120	110
930112	70	80	80	90	70	110	110	120	[120]	90	90	90
930113	40	30	30	30	30	50	50	50	[50]	50	50	20
930114	-20	0	10	50	60	70	100	[150]	[110]	100	90	70
930115	20	10	20	30	40	60	70	70	80	[60]	60	50
930116	50	60	50	70	50	50	70	60	70	[60]	50	50
930117	80	50	50	50	50	50	50	60	[70]	80	70	100
930118	50	60	100	60	90	70	110	[110]	-	170	+S	130
930119	40	40	40	40	40	40	40	30	[50]	50	50	40
930120	60	50	40	40	40	50	50	60	[100]	+S	100	80
930121	70	50	50	40	40	40	40	70	[80]	80	70	50
930122	60	70	60	50	50	50	70	70	[70]	80	80	120
930123	30	20	30	30	30	30	30	40	[20]	30	10	-60
930124	0	30	30	40	40	50	50	50	50	[50]	60	80
930125	-S	-70	-20	-10	0	10	-10	10	-	-	-	-
930126	-	-	-	-	-	-	-	-	-	-	-	-
930127	-	-	-	-	-	-	-	-	-	-	-	-
930128	-	-	-	-	-	-	-	-	-	-	-	OBS
930129	20	-30	70	30	70	50	50	40	[40]	70	100	+S
930130	30	20	20	30	20	40	40	40	[50]	50	50	60
930131	10	-20	0	30	30	40	20	0	[30]	0	30	70

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	Means
60	60	60	70	50	50	40	40	40	30	20	20	47
110	100	80	80	60	40	30	30	30	40	-30	-70	40
110	120	100	100	120	110	110	110	100	80	70	60	60
50	50	50	50	50	40	30	20	-10	-30	-20	-10	45
70	70	70	80	70	60	80	80	70	50	20	30	24
80	90	80	70	90	80	90	70	50	60	50	40	49
-S	20	30	50	40	40	60	70	90	100	80	60	49
-20	40	50	60	0	30	-10	20	50	40	0	0	18
80	90	70	50	40	30	-20	50	120	120	150	120	63
100	90	70	60	70	90	80	70	120	130	150	160	104
110	90	100	80	70	80	80	80	100	110	140	140	115
100	90	90	90	70	70	70	50	40	40	40	40	80
30	30	30	40	50	60	80	60	60	50	30	10	42
50	30	30	40	40	50	50	30	50	50	30	30	53
60	60	50	70	70	80	80	80	80	60	60	50	57
50	50	50	50	70	100	110	120	110	100	80	70	69
100	110	90	90	110	130	130	120	110	120	110	90	86
110	90	70	70	60	60	70	70	50	40	30	40	-
40	50	50	50	60	80	80	90	80	100	80	70	55
80	80	70	90	120	110	90	120	100	80	80	70	77
50	50	60	60	80	100	110	60	50	60	50	50	61
120	130	110	80	50	90	60	60	110	120	120	60	81
-50	+S	30	50	60	60	50	50	40	20	0	20	25
80	80	80	50	50	80	50	50	50	20	OBS	-30	47
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
+S	60	20	10	-10	60	40	-10	-10	OBS	OBS	-110	
+S	+S	+S	OBS	+S	50	+S	50	80	80	50	40	-
80	90	70	60	80	50	80	0	-10	30	20	0	42
50	60	70	70	0	10	50	70	60	60	-10	-40	29

Date	00	01	02	03	04	05	06	07	08	09	10	11
930201	-10	-40	-10	10	30	-30	0	70	-	30	10	70
930202	80	60	60	70	60	70	90	80	[80]	120	150	120
930203	120	120	100	110	110	110	100	80	60	[80]	120	100
930204	80	110	100	80	120	140	140	110	[120]	70	60	40
930205	90	80	60	80	90	100	70	70	[80]	90	100	110
930206	80	80	70	80	50	40	40	40	50	70	100	100
930207	-20	0	0	10	20	20	30	40	[30]	[30]	40	60
930208	70	50	60	30	-40	-50	-50	-30	-	[-10]	20	30
930209	10	30	20	20	40	40	30	40	[60]	20	40	40
930210	40	80	80	100	70	30	70	20	[80]	120	140	110
930211	60	70	30	10	30	80	70	60	-	10	20	40
930212	90	80	80	80	90	-20	90	90	[70]	60	-10	10
930213	10	30	10	-30	40	70	130	90	80	[40]	30	30
930214	20	40	40	60	40	60	20	10	[0]	-10	10	20
930215	40	30	20	-10	10	20	10	20	-	40	100	90
930216	70	70	70	60	60	70	70	[70]	[70]	70	40	50
930217	20	40	40	30	40	30	40	40	[60]	60	30	OBS
930218	OBS	OBS	0	0	10	40	60	70	[100]	(100)	100	110
930219	70	60	50	60	60	70	70	60	[70]	70	60	50
930220	40	50	50	50	50	50	50	[60]	[70]	40	70	OBS
930221	20	10	20	30	40	30	40	[50]	[60]	50	40	50
930222	40	40	40	40	50	40	40	60	-	80	90	70
930223	60	60	50	60	70	70	80	90	[80]	60	50	40
930224	-70	-90	-90	-70	-120	100	-250	[-100]	[0]	100	-100	-40
930225	-30	-70	-100	-100	-230	-130	-100	[-60]	[-40]	-150	-30	30
930226	-10	0	0	10	10	40	60	70	[60]	60	50	-60
930227	20	40	10	0	-10	20	50	[70]	60	90	100	100
930228	30	20	0	-10	0	30	50	[60]	80	80	70	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
120	140	150	140	120	90	90	100	90	80	110	100	64
120	130	200	150	130	130	130	140	140	120	150	120	113
100	100	120	110	100	100	100	120	150	110	130	80	105
50	60	90	80	80	90	80	70	70	70	80	90	86
110	140	160	120	90	100	120	90	70	90	70	80	94
100	80	70	80	100	90	80	90	90	70	30	0	70
70	60	70	70	90	100	100	100	100	100	90	90	54
40	20	30	40	30	20	0	10	20	10	10	10	14
60	40	40	40	30	40	40	30	60	80	60	40	40
100	80	80	80	90	100	80	90	90	100	70	60	82
-10	0	0	80	70	-50	-10	70	120	40	90	90	42
0	40	40	60	40	10	-40	-30	-50	-40	-40	-30	31
80	90	90	120	100	100	110	70	70	40	60	30	62
40	60	80	80	40	40	30	40	40	20	20	10	34
90	100	110	110	100	100	90	80	80	110	100	80	66
50	60	60	60	70	80	70	40	60	60	30	-20	58
-S	OBS	OBS	-10	-10	10	40	60	30	10	0	-10	28
100	100	100	100	90	100	100	80	80	90	80	70	75
90	90	80	70	80	70	100	100	100	+S	OBS	20	71
80	70	60	60	60	70	80	70	70	50	30	20	57
50	40	50	60	60	60	60	+S	50	-50	40	40	44
70	20	50	30	60	60	60	70	80	70	60	70	56
50	40	50	50	50	40	50	40	0	-110	-80	50	42
10	0	30	20	20	10	-10	-30	30	30	30	-10	-33
30	30	30	40	30	30	30	0	-20	-60	-20	10	-37
10	50	70	80	80	80	40	50	10	20	0	40	34
100	100	100	100	80	70	70	60	50	60	50	40	56
50	60	70	60	60	70	80	100	100	90	80	70	56

Date	00	01	02	03	04	05	06	07	08	09	10	11
930301	70	60	50	50	50	60	70	80	90	-	70	70
930302	60	50	50	50	40	20	40	50	[60]	60	50	30
930303	50	50	30	20	10	-10	90	70	[30]	70	70	40
930304	0	-10	-30	-30	-10	20	30	20	[40]	40	30	30
930305	-50	-20	-90	-90	-80	-70	-90	-50	[-10]	-30	10	30
930306	30	30	40	30	30	20	20	OBS	OBS	-10	40	30
930307	30	30	OBS	+S	10	20	40	[60]	[50]	60	40	50
930308	50	50	40	50	60	60	60	[60]	-	70	80	80
930309	70	50	50	40	50	30	40	60	[70]	70	70	80
930310	30	0	10	40	50	40	70	90	[80]	70	50	50
930311	50	40	30	20	20	30	20	[20]	[40]	40	OBS	-20
930312	30	40	40	40	50	60	50	70	[90]	80	90	90
930313	70	60	40	30	110	110	120	130	100	[90]	90	90
930314	10	10	10	20	10	20	30	50	[50]	50	50	50
930315	40	30	30	20	30	60	80	110	100	[120]	80	80
930316	30	OBS	+S	10	20	20	[30]	-	50	40	40	50
930317	20	20	20	20	20	10	[10]	-60	-80	-40	-10	-30
930318	30	10	20	20	0	20	40	[50]	[70]	70	50	50
930319	60	50	50	30	20	20	50	50	[40]	30	30	40
930320	30	40	30	30	20	30	30	[40]	40	50	60	60
930321	20	20	30	30	50	50	70	[90]	90	80	80	80
930322	20	20	30	30	30	40	40	60	-	-	60	60
930323	30	30	OBS	10	30	40	80	60	[50]	50	40	40
930324	0	10	10	20	40	40	60	70	[70]	60	40	40
930325	20	0	10	-10	0	-10	-10	20	[20]	30	50	60
930326	10	20	30	30	40	40	40	40	[40]	30	70	30
930327	-10	-10	-10	-10	-10	-10	-20	[30]	[40]	50	80	90
930328	-	-	-50	-10	-30	-	-	-	-	-	-	-
930329	70	50	50	40	40	50	[50]	-	[90]	80	90	90
930330	20	20	30	30	40	40	50	[60]	50	40	40	50
930331	20	10	20	30	40	40	50	[60]	50	60	60	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
70	60	70	100	100	70	90	110	110	80	70	60	74
60	50	30	-40	-30	50	70	130	200	120	90	70	57
20	70	160	120	130	70	70	30	40	0	-10	-10	50
40	50	50	30	-30	-S	50	50	10	0	-40	-40	13
50	50	60	50	50	50	40	30	20	20	30	30	-3
OBS	OBS	20	50	30	30	50	40	50	40	40	30	32
110	110	70	70	40	50	80	70	80	70	50	50	-
80	90	90	90	80	90	90	100	100	70	70	70	73
100	110	100	100	90	80	90	90	80	70	50	50	70
50	60	70	80	80	70	70	100	90	60	60	60	60
OBS	+S	30	40	50	50	50	40	40	50	40	30	34
80	80	80	70	60	60	60	60	50	50	60	50	62
80	60	60	50	50	20	30	40	30	30	20	10	63
50	50	50	50	40	50	50	40	30	40	30	30	29
80	70	70	70	50	50	60	30	40	50	40	30	59
50	60	60	70	50	50	70	60	40	30	20	10	-
20	50	30	30	0	-10	0	30	60	50	30	30	6
50	50	50	60	70	70	60	70	60	70	90	70	50
40	30	40	50	50	50	60	50	40	40	30	30	41
60	70	60	70	60	80	90	120	70	70	30	30	53
60	50	50	40	40	70	50	50	60	40	40	30	53
50	60	60	60	50	60	80	70	60	60	30	30	-
40	30	20	50	70	70	70	70	80	60	-20	20	44
30	50	60	40	40	(40)	50	50	20	20	10	-10	36
60	-S	OBS	-20	20	40	OBS	20	20	20	20	20	-
60	OBS	-S	OBS	OBS	-10	-10	0	0	-10	0	-10	-
90	90	80	70	70	70	80	60	40	30	30	-10	38
-	-	-	-	-	-	-	-	-	-	-	-	-
80	70	-S	40	50	40	40	40	40	50	40	30	56
30	50	40	-S	40	40	40	40	30	30	20	20	34
60	70	60	40	30	30	40	50	60	60	60	50	46

Date	00	01	02	03	04	05	06	07	08	09	10	11
930401	50	40	40	40	60	50	50	[60]	60	50	50	60
930402	10	10	10	10	10	10	30	[30]	20	20	30	40
930403	50	40	30	30	40	40	[40]	70	80	100	110	80
930404	20	0	10	30	30	-10	[10]	[40]	40	60	40	40
930405	30	20	40	30	20	10	-	-	40	40	40	40
930406	20	10	30	40	50	70	80	[60]	70	70	40	30
930407	40	20	30	30	40	10	40	[50]	40	40	40	30
930408	50	40	50	40	40	40	50	[50]	+S	OBS	50	OBS
930409	30	30	20	30	30	20	50	[50]	50	50	60	70
930410	40	40	50	40	30	50	[50]	[50]	50	50	70	80
930411	30	30	40	50	40	40	30	50	[-S]	-S	100	OBS
930412	-160	-50	0	50	-210	-220	[-200]	-150	-100	10	10	40
930413	40	40	30	-90	-40	50	60	-	60	50	60	(70)
930414	50	50	20	-10	40	30	50	[50]	80	80	80	60
930415	40	40	30	50	50	70	50	[70]	80	70	50	80
930416	50	60	60	60	50	50	60	[60]	70	50	60	60
930417	40	30	30	30	30	30	40	[50]	50	40	50	60
930418	20	20	20	20	10	20	40	[40]	40	0	20	-10
930419	30	30	30	20	20	40	-	[50]	70	60	30	40
930420	10	0	-20	-50	0	30	30	[50]	50	20	10	0
930421	20	20	20	20	10	20	30	[30]	30	40	40	50
930422	30	30	30	30	30	40	50	[50]	50	40	30	40
930423	30	30	20	20	20	30	30	[30]	40	50	50	50
930424	20	30	30	20	30	30	[30]	[30]	30	30	30	30
930425	10	20	20	20	20	20	[30]	30	30	30	30	30
930426	30	30	30	20	20	20	[20]	-	[30]	30	30	30
930427	-90	OBS	OBS	10	0	20	[30]	30	30	30	30	30
930428	0	0	10	0	0	10	30	[30]	30	30	30	+S
930429	10	10	10	10	10	20	30	[30]	40	40	40	30
930430	20	20	10	10	10	20	20	10	[20]	[30]	20	20

Date	00	01	02	03	04	05	06	07	08	09	10	11
930501	30	30	20	20	20	30	30	[30]	30	40	30	30
930502	20	20	20	30	20	20	30	[30]	30	30	30	30
930503	20	20	30	30	30	30	-	([30])	30	40	50	40
930504	20	20	0	0	0	0	[0]	20	20	20	20	10
930505	20	20	10	-10	10	-S	-30	[-110]	-40	20	0	0
930506	-10	20	20	20	10	-10	10	[OBS]	-S	70	60	60
930507	30	20	20	20	30	40	70	[50]	40	60	70	+S
930508	-	-	-	-	-	-	-	60	70	70	60	60
930509	20	20	20	20	20	OBS	[+S]	[70]	50	50	40	30
930510	20	20	20	20	20	30	20	-	-	-	-	30
930511	30	30	10	20	20	30	40	[40]	40	40	40	30
930512	20	20	30	40	30	40	40	[40]	40	40	30	30
930513	10	10	10	10	20	30	40	[40]	50	40	30	30
930514	30	30	30	20	20	40	[40]	[40]	50	40	30	-S
930515	10	10	10	10	10	30	30	[30]	40	40	40	40
930516	20	20	20	10	80	30	[70]	[40]	40	30	40	30
930517	10	10	0	10	0	30	[30]	-	[50]	50	50	50
930518	20	20	20	20	20	20	[20]	[20]	30	30	20	20
930519	20	20	20	20	20	20	[20]	20	20	20	20	20
930520	20	10	20	20	20	30	30	[20]	20	30	30	30
930521	30	20	20	20	20	30	40	[40]	30	30	40	30
930522	20	20	20	20	20	[30]	20	30	20	30	20	10
930523	20	10	10	10	10	[10]	10	0	-10	10	20	20
930524	30	20	30	20	30	30	-	-	50	50	50	50
930525	10	20	20	30	20	40	40	[40]	50	60	50	50
930526	20	20	10	20	30	40	40	[40]	50	40	50	40
930527	20	20	20	10	-10	-10	30	[40]	40	40	-10	0
930528	20	30	0	10	10	20	-	-	40	30	50	OBS
930529	10	20	20	20	30	40	[60]	[60]	50	40	40	40
930530	30	40	20	30	30	30	[30]	40	40	50	50	50
930531	20	30	30	50	[-S]	40	30	30	30	30	30	30

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	30	30	30	30	30	30	30	30	20	20	20	28
30	30	30	-S	0	-S	OBS	-20	40	50	20	30	-
20	20	30	+S	20	30	30	30	30	20	20	20	-
10	10	0	-10	-10	-10	0	0	20	20	20	20	8
0	-10	-10	0	-10	0	-30	-40	-10	20	20	-20	-9
70	+S	OBS	OBS	OBS	OBS	OBS	OBS	0	30	30	30	-
OBS	+S	OBS	+S	20	OBS	OBS	OBS	-	-	-	-	-
50	20	-S	20	20	OBS	OBS	20	30	30	20	20	-
20	-10	OBS	-S	10	20	10	0	10	10	20	20	-
30	40	40	40	40	40	50	40	30	30	30	30	-
30	30	30	40	30	30	30	30	30	30	30	20	30
30	40	30	30	30	20	30	20	20	10	10	10	28
30	30	30	40	30	30	40	40	40	30	40	30	30
OBS	OBS	-S	20	20	30	30	30	20	10	10	10	-
0	-S	+S	30	30	30	30	40	30	30	30	20	-
30	30	30	40	30	20	30	30	20	20	20	10	31
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30	30	30	30	20	20	20	10	20	20	20	20	26
20	20	20	30	30	50	40	40	50	20	20	20	26
30	20	30	20	0	20	10	10	10	20	20	20	14
50	50	50	50	50	50	40	40	30	30	20	20	-
60	50	60	60	50	50	40	40	30	20	20	20	39
40	40	40	30	OBS	-S	30	30	30	30	20	30	-
30	30	30	30	30	30	20	30	30	40	30	20	23
OBS	OBS	OBS	20	-20	+S	0	30	10	30	0	10	-
40	40	40	40	40	30	20	30	30	20	20	20	33
60	50	30	-S	20	30	20	20	20	30	20	10	33
40	30	30	40	30	40	40	30	30	30	20	20	32

Date	00	01	02	03	04	05	06	07	08	09	10	11
930601	20	20	20	30	40	40	-	[40]	40	50	40	40
930602	20	20	10	10	20	30	[30]	30	30	30	30	30
930603	30	20	10	20	20	20	[30]	20	30	20	10	30
930604	OBS	OBS	OBS	30	0	30	60	[30]	-10	OBS	70	80
930605	30	10	20	20	30	30	[30]	[40]	40	50	50	50
930606	10	10	10	10	20	30	40	[50]	50	60	50	50
930607	10	10	10	10	20	30	-	[30]	40	40	20	40
930608	20	10	30	30	50	70	[90]	[100]	90	100	80	60
930609	20	20	10	20	30	40	30	[20]	30	30	30	30
930610	10	10	10	10	20	30	30	[40]	30	30	30	40
930611	10	30	20	40	40	50	[40]	40	50	60	60	-S
930612	20	20	20	20	10	20	20	[30]	OBS	+S	30	40
930613	20	20	30	10	10	30	30	[40]	40	30	30	30
930614	30	30	30	30	40	40	40	-	30	30	30	30
930615	20	20	20	20	10	10	[30]	[30]	30	30	30	30
930616	10	20	30	30	50	70	70	[70]	60	60	50	50
930617	30	70	30	10	OBS	(0)	-60	[-S]	-20	-70	+S	+S
930618	30	30	30	20	20	30	[70]	90	70	60	30	30
930619	30	30	30	30	30	30	[40]	[30]	40	40	30	30
930620	30	20	20	20	10	30	[30]	30	30	50	60	-S
930621	20	30	20	10	30	60	[70]	-	40	40	40	40
930622	30	30	30	50	50	50	[50]	(50)	(50)	50	50	60
930623	30	20	10	20	10	20	10	[30]	40	50	50	50
930624	OBS	-20	-10	0	0	0	[-10]	30	40	20	10	10
930625	20	20	10	30	30	30	[50]	70	80	70	40	30
930626	20	10	10	20	20	-10	[30]	[30]	30	10	-50	-60
930627	20	30	30	20	10	10	[-10]	[10]	0	-10	10	-20
930628	0	-10	OBS	OBS	+S	OBS	OBS	-	OBS	130	OBS	10
930629	20	30	40	30	40	-	-	-	-	-	-	-
930630	30	20	30	20	30	[30]	[30]	40	50	50	40	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
40	30	30	40	40	30	20	20	30	20	10	20	31
30	40	40	40	30	40	40	30	30	30	20	20	28
30	20	30	20	20	10	-30	OBS	-S	10	0	0	-
70	60	60	60	50	-S	90	40	50	40	40	40	-
50	50	50	60	60	50	40	30	20	20	20	20	36
50	30	50	30	30	30	30	20	30	20	20	10	31
60	-S	OBS	OBS	OBS	(OBS)	20	30	20	20	20	20	-
70	60	60	50	50	50	50	40	40	30	20	20	53
30	40	30	40	40	40	30	30	30	20	20	20	28
30	30	40	30	40	40	40	40	40	20	10	0	27
-S	OBS	OBS	40	40	40	40	40	30	40	30	20	-
110	60	OBS	40	30	10	30	40	40	30	20	20	-
40	+S	20	30	40	40	40	30	+S	20	30	30	-
30	30	30	30	30	30	30	30	30	30	20	20	30
30	30	30	30	30	+S	+S	OBS	30	30	30	20	-
50	50	60	70	70	70	50	50	40	40	30	30	49
OBS	OBS	+S	20	30	10	30	40	40	30	30	30	-
30	20	30	30	30	30	30	(30)	30	30	30	30	36
30	30	30	30	30	30	30	20	30	20	20	20	30
OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	10	20	10	10	-
40	40	30	30	40	20	OBS	-S	30	40	40	40	-
50	40	50	40	50	40	30	30	20	20	20	20	-
40	30	0	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	-
50	10	50	20	20	20	-10	-20	20	20	20	20	13
30	20	30	30	30	30	40	40	40	30	30	30	36
-90	0	20	50	40	40	40	40	40	40	30	20	14
-10	30	20	20	40	OBS	-S	30	-S	OBS	OBS	-S	-
50	50	50	OBS	50	OBS	OBS	30	30	40	20	20	-
60	50	50	40	50	40	30	30	30	20	20	30	-
40	40	50	50	50	40	30	30	30	30	30	20	35

Date	00	01	02	03	04	05	06	07	08	09	10	11
930701	20	20	30	50	60	50	[50]	[50]	70	70	60	60
930702	10	10	20	30	30	30	[30]	[30]	30	30	30	30
930703	30	30	30	20	30	30	[30]	[30]	40	40	40	40
930704	20	20	20	30	20	20	[30]	30	30	30	30	30
930705	20	60	OBS	OBS	OBS	20	30	-	([50])	50	50	50
930706	40	30	30	30	30	50	[30]	OBS	0	OBS	OBS	OBS
930707	40	30	30	40	40	40	[40]	[30]	30	30	30	20
930708	20	30	30	20	30	40	[60]	50	60	50	50	50
930709	20	20	30	30	30	30	30	[30]	30	30	30	30
930710	20	20	20	10	20	20	[20]	30	40	50	40	40
930711	40	40	50	40	40	20	-S	[20]	40	30	20	OBS
930712	30	20	20	10	20	40	40	-	[30]	30	30	30
930713	20	20	20	20	10	20	[30]	[30]	30	10	30	30
930714	30	30	30	30	30	30	20	[20]	30	30	30	40
930715	60	10	30	20	20	30	30	[30]	60	30	50	30
930716	20	20	10	20	30	+S	-10	[30]	30	40	40	40
930717	0	10	10	0	30	30	[30]	30	30	30	30	30
930718	10	-40	20	30	OBS	OBS	OBS	30	60	100	60	40
930719	0	0	0	10	20	30	40	-	-	50	50	40
930720	10	20	10	-10	OBS	OBS	OBS	[40]	90	40	60	60
930721	50	40	20	10	20	40	60	[50]	80	70	40	50
930722	50	40	40	40	40	40	[40]	50	70	70	80	70
930723	10	20	20	20	20	40	40	[50]	30	20	OBS	40
930724	20	10	20	50	70	+S	[20]	70	80	60	50	40
930725	20	30	10	30	40	50	[40]	[40]	50	60	70	60
930726	20	40	30	20	-S	-S	-	OBS	OBS	20	30	40
930727	20	20	20	20	20	40	40	[40]	50	50	40	40
930728	-S	10	-20	+S	-10	-10	-S	[-S]	60	70	60	60
930729	0	10	10	20	30	50	-	-	-	40	40	40
930730	20	20	20	30	30	40	20	[30]	30	40	20	30
930731	40	30	40	40	40	40	[40]	[40]	40	40	50	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
60	70	70	70	60	60	40	30	30	20	20	10	47
30	40	40	40	30	30	30	30	30	30	30	30	29
60	70	50	40	30	30	30	30	30	30	30	20	35
30	30	30	50	50	40	40	40	30	30	30	20	30
50	50	50	60	OBS	OBS	-S	30	30	+S	OBS	+S	-
OBS	50	50	40	40	50	50	50	50	50	50	50	-
30	30	20	20	20	20	30	30	30	20	20	10	28
50	50	50	60	50	40	40	40	30	30	20	20	40
30	30	30	30	30	30	30	30	30	20	20	20	28
40	30	30	30	20	30	40	40	40	40	40	40	31
OBS	50	40	OBS	OBS	20	OBS	OBS	OBS	+S	40	40	-
30	30	OBS	OBS	30	30	30	30	30	30	30	30	-
30	30	30	30	30	30	30	30	30	30	30	30	26
30	30	30	40	30	30	30	30	20	0	10	+S	27
60	40	OBS	OBS	20	30	30	30	30	30	30	20	-
30	20	OBS	OBS	OBS	30	30	30	30	10	10	0	-
-S	OBS	30	30	20	20	+S	60	30	30	20	20	-
30	30	40	-S	OBS	-S	20	30	OBS	OBS	OBS	-S	-
40	30	30	90	-S	OBS	-S	20	40	40	20	20	-
20	20	10	20	10	10	OBS	OBS	-S	20	40	50	-
50	40	40	40	50	40	50	50	40	60	60	50	46
60	50	40	20	OBS	+S	20	20	20	10	10	0	-
20	20	40	40	40	30	30	40	30	30	20	20	29
50	50	60	60	50	50	50	40	60	40	30	20	46
70	70	70	60	-	-	-	30	10	OBS	-20	10	-
-	(40)	40	40	40	40	50	50	40	40	40	30	-
40	40	50	50	50	30	50	40	40	20	20	OBS	36
40	20	30	30	50	30	10	30	40	30	10	10	-
(30)	(40)	50	50	40	40	40	40	30	30	30	20	-
30	30	40	40	40	40	40	40	40	40	30	30	32
30	0	-S	OBS	+S	-S	OBS	0	-S	30	+S	10	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
930801	10	0	10	20	20	20	30	40	50	50	50	[40]
930802	10	10	10	10	10	20	[30]	-	[30]	40	30	30
930803	10	10	0	0	10	10	20	[30]	30	30	40	40
930804	10	20	20	10	10	20	20	[20]	40	50	40	40
930805	10	10	10	10	20	30	30	[30]	40	50	50	50
930806	10	20	20	30	30	30	80	[80]	60	40	20	10
930807	20	20	10	10	20	30	30	[40]	[50]	60	60	50
930808	20	30	30	30	30	30	40	[40]	50	50	40	50
930809	20	30	30	30	30	40	+S	-	[(80)]	0	-S	-S
930810	30	30	30	30	30	40	[40]	-	70	50	50	50
930811	10	10	20	20	30	50	[70]	[80]	40	40	40	40
930812	40	30	20	20	40	40	[50]	[40]	40	50	40	40
930813	40	30	30	40	40	40	[40]	40	40	50	50	50
930814	20	30	30	30	40	40	[50]	[40]	40	40	30	40
930815	10	10	10	10	20	30	[40]	(30)	(40)	40	40	40
930816	30	20	10	20	20	30	[30]	-	50	40	30	30
930817	10	10	10	10	10	20	40	[30]	30	30	40	40
930818	40	30	20	30	40	40	40	[50]	50	60	50	40
930819	20	20	20	10	10	20	[30]	[40]	30	40	50	40
930820	20	10	20	10	20	20	[30]	[30]	30	40	40	40
930821	10	20	20	10	20	20	[30]	40	30	40	40	40
930822	10	10	10	20	20	30	[30]	[40]	30	40	40	50
930823	40	30	40	30	20	40	[(40)]	[(30)]	30	40	40	50
930824	20	20	20	20	30	10	10	[40]	40	40	40	10
930825	+S	OBS	OBS	OBS	OBS	50	OBS	[70]	90	120	70	40
930826	30	20	20	20	40	40	[40]	[50]	60	140	50	40
930827	30	30	40	30	20	40	50	[40]	40	40	40	30
930828	20	-10	10	10	30	OBS	[-10]	60	60	50	50	40
930829	10	10	20	20	30	40	[40]	[40]	-S	-S	50	OBS
930830	30	30	30	40	40	50	50	[(50)]	-	60	50	50
930831	+S	+S	-S	OBS	OBS	OBS	[-50]	[0]	60	-S	+S	OBS

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	50	50	50	50	40	40	40	20	10	10	10	32
40	40	40	40	30	30	40	30	40	30	20	10	27
40	50	60	60	50	30	20	20	30	30	20	20	28
40	40	50	50	40	40	30	30	20	20	20	10	29
60	110	+S	OBS	20	-10	-S	OBS	OBS	OBS	+S	20	-
20	OBS	OBS	10	20	10	10	10	20	20	30	40	-
50	50	60	60	50	40	40	40	30	20	20	20	37
50	50	50	60	50	30	20	20	30	20	20	20	36
OBS	80	110	80	50	40	40	40	30	20	30	40	-
40	20	50	50	OBS	OBS	-S	10	30	30	30	10	-
40	40	40	40	50	50	50	40	50	40	40	30	40
40	40	40	40	40	40	40	40	40	30	30	40	38
50	50	50	50	50	50	40	50	40	40	30	20	42
40	40	40	40	40	30	40	40	30	30	20	20	35
40	50	50	50	40	40	40	30	30	20	20	20	-
30	40	40	40	30	20	20	20	20	10	10	10	26
50	50	40	-10	OBS	30	30	40	50	50	50	40	30
50	50	40	50	40	30	40	30	30	20	30	20	38
60	50	60	50	40	50	40	20	30	40	30	20	35
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40	40	50	40	40	30	30	30	20	20	20	20	29
50	50	40	40	40	40	40	40	50	50	40	40	36
50	50	50	40	30	20	20	-S	OBS	20	20	20	-
50	30	10	20	20	30	110	20	30	+S	+S	70	-
30	40	40	50	OBS	-S	50	40	30	40	50	40	-
30	10	40	40	40	40	40	50	50	50	40	30	41
40	40	30	30	20	0	0	30	40	40	30	30	32
50	40	30	30	20	30	30	30	40	40	30	30	31
OBS	+S	OBS	50	50	40	50	50	50	40	40	30	-
40	40	40	40	30	30	40	40	40	40	40	40	-
OBS	30	30	OBS	OBS	10	30	OBS	+S	10	20	10	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
930901	0	0	0	OBS	OBS	OBS	30	[110]	80	20	-S	30
930902	30	30	(20)	(30)	30	40	40	[50]	60	60	80	60
930903	20	10	10	-30	0	10	40	[30]	30	30	40	50
930904	30	30	40	20	10	10	[10]	60	70	30	40	20
930905	40	30	30	30	30	30	[40]	[50]	50	40	40	OBS
930906	20	20	30	20	30	50	([60])	-	80	80	80	60
930907	30	40	30	40	40	40	[60]	[50]	50	60	60	60
930908	40	40	40	40	60	110	[130]	[90]	40	40	40	30
930909	30	30	20	20	20	20	[30]	40	40	40	40	30
930910	40	40	40	30	40	40	40	-	-	(60)	70	OBS
930911	10	10	10	10	20	20	[60]	[80]	80	60	40	40
930912	20	20	30	20	30	40	[40]	30	OBS	OBS	30	40
930913	20	20	30	20	30	30	[40]	-	[50]	70	60	50
930914	20	20	20	20	30	30	[30]	30	30	20	20	30
930915	OBS	20	10	10	20	40	50	[40]	40	40	40	40
930916	30	30	40	30	40	40	50	[50]	40	40	40	40
930917	10	-10	10	10	10	20	30	[90]	50	40	40	40
930918	-20	0	10	10	10	20	30	[90]	100	100	80	80
930919	30	20	40	40	40	40	40	[50]	30	30	20	20
930920	10	0	10	20	20	-	-	-	-	20	20	30
930921	20	10	10	20	30	30	40	[40]	40	50	50	40
930922	10	20	30	30	20	30	30	[40]	50	50	50	40
930923	40	30	30	20	30	30	20	[20]	40	40	50	40
930924	10	30	30	30	30	30	50	[40]	60	60	50	50
930925	30	20	20	20	30	30	[40]	40	30	30	30	20
930926	20	10	-30	-20	OBS	+S	+S	0	+S	-30	-20	30
930927	10	10	10	10	10	10	20	[30]	-	30	30	30
930928	30	30	20	30	30	30	40	50	[70]	60	50	40
930929	60	50	30	30	+S	OBS	0	[30]	[50]	20	OBS	[OBS]
930930	50	70	60	40	40	60	70	[110]	100	80	70	80

12	13	14	15	16	17	18	19	20	21	22	23	Means
OBS	OBS	OBS	+S	-S	20	40	40	30	30	40	40	-
40	40	60	60	50	40	40	50	40	40	30	20	-
OBS	OBS	OBS	-S	40	40	+S	30	60	60	40	30	-
20	+S	OBS	OBS	10	30	40	40	40	40	30	40	-
40	OBS	10	OBS	40	40	20	20	30	30	30	20	-
50	40	40	30	30	20	30	40	40	40	30	30	-
60	70	50	60	60	50	50	50	50	40	30	40	49
30	40	30	30	40	40	30	30	30	30	20	30	45
40	40	30	30	40	30	30	30	30	40	40	40	33
OBS	30	20	30	40	30	+S	OBS	OBS	+S	20	20	-
40	30	40	30	40	40	40	40	30	30	30	40	36
50	50	60	60	50	40	50	40	40	40	30	20	-
50	40	30	30	40	40	40	40	30	20	30	30	37
30	40	40	40	30	30	40	40	40	30	-S	-S	-
30	20	20	30	30	30	30	30	20	30	30	30	30
20	OBS	20	30	20	20	30	-10	10	10	20	40	30
40	40	40	40	40	40	40	40	30	-S	OBS	OBS	-
80	60	40	40	30	20	10	20	30	30	30	30	39
30	40	40	30	30	20	40	40	30	30	-10	20	31
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20	10	10	10	20	40	30	40	30	20	20	30	26
70	40	10	10	10	10	30	30	30	30	20	10	-
30	30	30	30	30	30	30	30	30	30	30	30	24
40	30	40	30	30	40	60	60	70	80	80	70	46
OBS	-S	-S	-10	-70	-10	0	20	60	90	70	50	-
70	80	70	60	50	50	40	40	30	30	30	20	58

Date	00	01	02	03	04	05	06	07	08	09	10	11
931001	10	10	10	10	-10	0	0	10	[20]	20	20	30
931002	20	10	0	10	30	30	30	[20]	40	40	(40)	40
931003	-S	OBS	-S	OBS	10	0	0	[0]	20	30	30	30
931004	-90	10	30	-30	-100	-50	-40	[-120]	-	-S	-80	10
931005	30	30	20	20	20	30	50	70	[50]	50	50	60
931006	0	10	10	10	10	30	40	[50]	30	-	-	-
931007	30	30	20	20	30	30	[30]	50	30	30	30	20
931008	20	20	20	20	30	30	30	0	[0]	10	20	30
931009	10	0	20	30	30	30	30	[40]	30	30	20	OBS
931010	20	30	30	30	50	100	100	[70]	70	80	60	40
931011	130	120	110	100	110	100	100	100	-	-	-	-
931012	70	70	80	80	70	60	70	70	-	40	50	40
931013	30	30	20	20	20	30	30	40	[40]	40	30	30
931014	20	20	20	-20	-20	-10	-10	[-10]	30	30	40	30
931015	20	20	10	20	20	30	40	40	[40]	40	60	40
931016	-20	20	30	30	10	10	30	[40]	[40]	40	40	40
931017	20	20	30	30	40	40	40	[40]	[60]	40	30	50
931018	10	30	30	30	30	30	20	-	-	[40]	40	30
931019	10	0	10	20	-20	-S	OBS	OBS	[-50]	OBS	-S	20
931020	10	-10	10	10	-10	20	30	50	[50]	50	+S	40
931021	0	10	0	10	10	10	20	-10	0	[-10]	-10	10
931022	20	30	60	60	60	30	30	10	[0]	10	10	20
931023	20	20	10	0	20	30	50	70	70	[80]	70	70
931024	30	40	50	50	40	40	50	[40]	[40]	40	50	40
931025	40	40	50	50	40	50	50	[60]	-	40	40	50
931026	50	40	30	40	40	50	[50]	50	60	50	50	50
931027	50	30	30	40	40	40	[40]	40	40	30	40	40
931028	10	10	20	20	40	50	[50]	50	-	(30)	70	70
931029	80	110	90	70	60	40	[50]	[40]	60	40	30	60
931030	10	20	10	10	30	40	40	[50]	[40]	30	0	-10
931031	0	-10	-10	-10	-10	-10	0	[-10]	-10	-20	-30	-10

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	30	30	30	30	30	40	30	30	30	30	30	21
50	60	50	50	50	50	40	20	-40	-80	OBS	20	25
30	30	30	30	30	70	-20	30	40	20	0	-30	-
30	40	50	50	50	50	30	50	60	40	30	30	-
60	60	50	40	30	30	30	20	20	20	30	20	37
-	-	-	-	-	-	70	40	30	30	30	30	-
20	20	0	0	0	10	10	20	30	10	20	20	21
30	40	50	50	50	50	60	40	30	30	20	30	30
+S	OBS	OBS	-S	30	50	70	30	40	30	20	20	-
30	30	30	10	10	10	0	20	50	80	80	110	48
-	-	-	-	-	-	30	70	70	70	70	70	-
50	50	60	60	60	50	40	40	60	30	40	30	55
40	40	50	50	40	30	30	20	10	30	40	30	32
20	OBS	OBS	10	40	40	60	60	50	40	30	20	-
30	40	OBS	OBS	+S	30	OBS	OBS	-10	10	-10	0	-
30	20	40	20	20	30	30	30	30	30	30	20	27
50	50	40	40	10	0	-10	10	-10	0	10	10	27
40	30	20	30	20	10	-10	-20	-10	-130	-40	10	-
20	10	-10	-20	10	20	50	30	0	20	10	0	-
20	30	30	20	40	30	30	20	20	30	10	0	23
-10	-10	20	30	30	30	-10	40	30	+S	20	0	7
10	10	10	10	10	-10	10	-10	0	10	20	30	18
40	40	40	40	50	40	40	OBS	OBS	OBS	OBS	20	-
40	40	40	50	50	50	60	50	50	50	40	40	45
40	50	50	60	70	60	60	50	40	20	10	50	47
50	50	50	50	60	60	60	60	60	60	50	50	51
40	50	50	60	80	70	50	40	30	30	20	20	42
70	60	60	50	50	50	40	50	50	40	40	50	-
70	50	50	40	0	0	10	20	30	30	10	20	44
0	40	40	10	20	0	20	20	-10	-10	-10	-10	16
-10	0	10	0	0	-10	-10	-20	-20	-10	-10	-20	-10

Date	00	01	02	03	04	05	06	07	08	09	10	11
931101	-30	-20	-10	-20	-10	-10	-10	0	[-10]	-10	-10	-10
931102	-10	-10	-10	-10	0	0	0	0	0	0	0	0
931103	-10	-10	0	-10	0	20	30	40	-	10	10	0
931104	-10	-10	0	20	40	50	40	[60]	[60]	60	50	50
931105	30	40	30	10	20	30	10	[-10]	[0]	30	30	30
931106	0	10	10	0	-10	[10]	-20	20	30	30	30	30
931107	40	30	30	50	40	40	30	[40]	60	40	40	50
931108	40	70	80	100	80	30	-	[10]	40	70	50	40
931109	10	10	20	30	30	30	40	40	-	60	40	60
931110	30	40	30	30	40	30	60	[70]	70	70	40	60
931111	30	0	0	10	10	20	10	20	[30]	[30]	20	10
931112	0	-10	0	0	0	0	0	0	-10	0	0	[0]
931113	20	30	40	30	0	0	10	-10	0	10	-	-
931114	60	60	40	40	40	60	70	40	[10]	0	-10	0
931115	OBS	-S	40	20	60	90	30	-10	40	-	-	-
931116	-	-	-	-	-	-	-	-	-	-	-	-
931117	-	-	-	-	-	-	-	-	-	-	-	-
931118	-	-	-	-	-	-	-	-	-	-	-	-
931119	-	-	-	-	-	-	-	-	-	-	-	-
931120	-	-	-	-	-	-	-	-	-	-	-	-
931121	-	-	-	-	-	-	-	-	-	-	-	-
931122	-	-	-	-	-	-	-	-	-	-	+S	OBS
931123	180	170	130	80	60	30	50	40	[50]	-40	-50	10
931124	-40	-60	-50	-20	-10	20	0	-80	[-60]	-60	-90	-110
931125	-20	-50	-20	-30	-10	0	10	[20]	10	-10	-10	0
931126	20	10	40	30	50	30	0	-30	10	0	[-10]	10
931127	10	-10	-100	-30	0	0	30	-50	-50	-30	-40	-20
931128	-40	10	10	-20	-20	-30	-20	-10	-20	[10]	10	20
931129	70	OBS	OBS	70	30	30	20	40	-	OBS	OBS	OBS
931130	-100	-80	-90	-110	-130	-120	-70	-50	10	[10]	30	30

	12	13	14	15	16	17	18	19	20	21	22	23	Means
	-10	-10	-10	-10	-10	0	-10	-10	0	-10	-10	-10	-10
	0	-10	0	-10	-30	-30	-30	-40	-20	-20	0	-10	-10
	0	0	0	0	0	-20	0	10	30	10	-10	0	4
	40	50	50	60	60	60	70	90	110	110	70	40	51
	30	40	50	50	30	40	40	40	40	30	30	10	28
	30	20	20	30	20	20	70	20	20	10	20	50	19
	80	40	30	20	20	30	40	50	40	20	10	10	37
	40	0	-10	-60	-70	-30	10	20	30	30	30	20	27
	70	60	60	60	40	60	60	70	60	40	40	30	44
	70	80	80	60	60	80	90	80	90	80	30	20	58
	0	0	-10	-10	10	0	-10	-30	-40	-10	-20	-10	3
	10	0	0	10	0	0	10	-10	30	10	20	30	4
	20	10	10	10	20	10	10	20	40	60	40	40	-
	-10	-20	-40	-30	-10	-10	-50	30	-10	+S	+S	OBS	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
OBS	-S	20	60	80	80	90	120	110	50	50	90	130	-
	10	-50	-90	-70	-90	-50	-40	-30	-20	-20	-20	-50	8
	-50	-50	-70	-100	-90	-100	-70	-90	-80	-70	-100	-70	-63
	-10	0	40	60	40	50	60	30	10	0	20	30	9
	-10	-10	30	20	-20	-30	-10	-20	-50	-50	-50	-50	-4
	-20	10	0	0	-10	-20	-30	-20	-20	-40	-60	-60	-24
	30	-10	30	30	180	120	70	60	170	90	50	60	33
OBS	20	80	90	90	30	20	-60	-70	-70	-90	-90	-100	-
	30	50	70	30	20	-30	-50	-10	-40	-100	-120	-110	-39

Date	00	01	02	03	04	05	06	07	08	09	10	11
931201	-90	-80	-80	-90	-80	-90	-70	-50	[-20]	[-10]	-20	-20
931202	0	10	10	30	20	-20	30	30	[10]	[20]	30	20
931203	70	70	90	90	100	100	100	100	[110]	80	90	90
931204	10	10	10	10	10	10	30	[30]	0	10	40	60
931205	130	180	180	110	120	130	110	[100]	[30]	70	70	50
931206	40	50	50	40	50	30	30	[30]	-	60	70	100
931207	0	0	-10	-10	-20	-50	-50	-10	[-10]	-20	-10	-20
931208	-10	-20	-10	20	30	0	20	60	[50]	70	90	80
931209	-60	-50	-50	-30	10	-10	-20	-10	[30]	30	100	100
931210	70	50	50	50	50	50	40	50	[30]	70	110	80
931211	-80	-50	-40	-20	30	50	50	30	-S	OBS	-S	-40
931212	40	30	20	20	20	20	40	40	[40]	10	20	40
931213	40	50	50	30	50	50	40	30	-	[30]	30	30
931214	50	50	50	40	-10	-10	10	0	[40]	40	50	80
931215	-10	-10	-20	10	0	0	150	170	[120]	110	50	40
931216	30	30	30	30	50	50	50	50	[60]	50	-10	30
931217	40	30	40	40	40	40	40	([60])	50	40	40	50
931218	30	-40	-50	-30	[-10]	-30	-50	+S	[0]	[10]	30	40
931219	60	50	30	30	50	50	110	110	[120]	130	110	130
931220	20	30	30	10	10	10	60	[90]	-	40	10	40
931221	40	40	40	60	90	40	40	40	70	[30]	-S	40
931222	40	30	20	20	30	40	40	[40]	[40]	40	40	40
931223	50	40	40	20	40	40	40	50	[50]	50	40	50
931224	40	30	30	30	10	0	-50	-40	-40	[-10]	10	10
931225	0	10	10	30	20	30	20	50	30	50	-S	OBS
931226	60	50	50	40	30	30	40	40	0	50	10	40
931227	-	-	-	-	-	-	-	-	-	-	-	-
931228	20	20	30	20	10	20	20	30	30	40	10	30
931229	30	30	40	40	40	50	40	30	40	[40]	40	50
931230	50	30	-20	-10	-20	60	20	-S	-80	10	20	60
931231	60	40	-10	-30	-30	-10	-20	10	30	0	30	[80]

12	13	14	15	16	17	18	19	20	21	22	23	Means
-30	-10	0	-30	-30	-50	-40	-30	0	-10	10	-10	-39
10	-10	20	-20	30	10	0	-50	-60	-10	60	70	10
100	100	100	100	90	90	70	70	80	60	40	10	83
30	30	70	90	100	100	130	150	100	+S	130	+S	-
10	20	30	60	100	80	80	90	70	40	30	30	80
110	110	110	90	60	50	50	60	60	40	30	-10	57
-20	0	0	-10	-10	-10	-10	-20	-20	-20	-20	-10	-15
110	110	70	60	0	-20	-30	-10	-30	-40	-40	-50	21
120	110	100	70	50	60	110	130	110	90	70	70	47
60	50	30	40	50	50	10	-10	-10	-50	-70	-80	34
0	-S	50	50	40	50	60	60	50	40	40	30	-
40	50	50	60	50	50	50	50	50	50	40	40	38
50	70	110	90	100	90	80	80	70	60	50	50	58
70	70	70	50	30	40	30	-50	-140	-40	-10	30	23
50	50	50	20	-10	20	40	30	40	40	30	20	41
10	-20	70	50	50	50	50	30	30	30	30	30	36
(50)	60	50	40	40	-30	-10	40	40	40	60	30	37
60	80	80	90	90	90	110	120	90	100	80	60	41
130	150	60	40	40	70	70	70	40	-10	30	30	71
40	70	80	110	130	130	60	100	80	100	90	50	60
40	30	10	40	10	-20	OBS	OBS	OBS	-S	30	10	-
40	40	50	50	50	50	60	60	60	60	60	50	44
50	30	-S	60	70	100	80	70	70	70	50	50	53
30	40	10	30	OBS	-S	OBS	-S	OBS	+S	-60	-40	-
+S	-10	10	10	0	20	10	30	40	60	40	50	-
-20	80	OBS	OBS	10	50	100	80	90	30	10	30	-
-	-	10	10	20	10	30	10	20	20	20	20	-
-	[40]	40	40	40	40	40	30	30	40	40	40	30
60	80	100	90	60	70	70	70	80	70	60	70	56
80	110	110	70	50	120	100	170	+S	220	160	80	63
70	90	80	80	90	90	30	80	-10	-40	-30	-40	27

2. Hourly means of quantities of positive and negative
1992

Month		00	01	02	03	04	05	06	07	08	09	10	11
9201	+	0	0	0	0	0	0	0	0	0	0	0	0
9201	-	0	0	0	0	0	0	0	0	0	0	0	0
9202	+	2	4	0	2	1	0	0	2	6	0	0	0
9202	-	4	6	1	2	0	0	0	0	0	0	0	0
9203	+	0	0	3	6	2	3	0	2	0	0	0	24
9203	-	0	0	5	7	3	20	4	4	0	0	0	0
9204	+	0	0	5	0	1	2	0	0	0	0	0	0
9204	-	0	0	3	4	1	2	0	0	0	0	0	0
9205	+	0	4	0	0	0	0	0	0	0	0	0	0
9205	-	0	3	0	0	0	0	0	1	0	0	0	0
9206	+	0	0	0	1	5	4	4	11	1	1	1	6
9206	-	0	0	0	0	4	0	0	7	0	0	2	9
9207	+	0	0	0	0	0	0	0	2	4	0	2	0
9207	-	0	0	0	0	0	0	0	5	30	0	0	0
9208	+	9	8	5	0	0	0	15	0	0	0	2	0
9208	-	21	64	9	0	0	0	0	4	0	0	0	0
9209	+	0	0	0	0	0	0	6	12	3	1	34	1
9209	-	0	0	0	0	0	0	7	39	28	28	28	11
9210	+	0	0	0	0	0	0	9	8	13	2	23	8
9210	-	0	0	0	0	0	0	13	4	27	20	18	20
9211	+	2	0	0	0	3	7	4	0	0	0	0	1
9211	-	3	0	0	0	1	7	7	0	0	0	0	2
9212	+	0	0	0	5	1	14	0	0	0	0	0	0
9212	-	0	0	2	0	0	7	0	0	0	0	0	0

Hourly means of quantities of positive and negative
1993

Month		00	01	02	03	04	05	06	07	08	09	10	11
9301	+	0	0	1	1	0	0	0	0	0	0	0	1
9301	-	0	0	0	0	0	0	0	1	0	0	0	6
9302	+	0	1	0	0	0	0	0	0	0	1	1	0
9302	-	5	4	0	0	0	0	0	0	0	0	0	5
9303	+	0	0	15	2	0	0	0	1	8	9	9	1
9303	-	0	0	5	5	0	0	0	0	0	0	0	0
9304	+	0	0	1	0	0	0	0	0	2	3	0	2
9304	-	0	0	2	0	0	0	0	0	0	6	0	0
9305	+	0	0	0	0	0	0	0	7	0	0	0	17
9305	-	0	0	0	0	18	0	0	11	0	0	0	12
9306	+	3	4	0	0	2	0	0	4	23	9	1	0
9306	-	9	10	0	0	0	0	0	18	0	4	0	3
9307	+	0	0	14	22	17	19	17	12	0	62	25	27
9307	-	0	0	6	25	38	17	21	20	0	48	32	22
9308	+	0	0	0	0	0	0	0	2	0	0	0	0
9308	-	0	0	0	0	0	0	0	0	0	0	0	0
9309													
9310													
9311	+	0	0	0	0	0	0	0	0	0	5	0	0
9311	-	0	0	0	0	0	0	0	0	0	3	0	0
9312	+	0	0	0	0	0	0	0	0	0	6	0	0
9312	-	0	0	0	0	0	0	0	0	0	3	0	0

charges transported by point-discharge for each month

12	13	14	15	16	17	18	19	20	21	22	23	Means
1	0	0	0	0	0	0	0	0	0	1	0	0.2
8	0	0	0	0	0	0	0	0	0	0	0	0.6
0	0	0	0	0	0	0	0	0	8	6	0	0.7
0	0	2	0	0	0	0	0	0	0	0	0	0.7
3	2	1	1	0	0	0	0	0	0	0	0	2.2
4	1	0	0	0	0	0	0	0	0	0	0	0.6
3	0	0	0	0	6	0	4	0	0	8	1	1.3
6	0	0	0	0	6	0	6	0	0	19	16	2.5
82	35	51	4	0	40	25	12	18	0	0	0	12.1
45	55	65	6	1	21	4	6	1	0	0	0	10.2
3	0	18	27	19	32	31	22	2	3	0	4	8.6
2	11	50	41	28	23	71	44	2	15	2	0	13.9
5	15	33	33	50	69	37	31	4	2	6	0	20.8
41	8	17	22	71	54	53	28	8	0	67	0	24.9
0	0	78	32	4	9	0	4	57	1	0	0	7.8
0	0	7	96	9	39	66	214	229	62	0	0	30.1
0	0	0	0	0	0	0	0	0	0	0	0	0.2
0	0	0	0	0	0	0	0	0	0	0	0	0.1
0	0	0	1	0	0	1	6	4	0	0	0	0.8
0	0	0	0	0	0	0	5	15	0	0	0	1.0