

III. ATMOSPHERIC ELECTRICITY AND THE IONOSPHERE

ATMOSPHERIC ELECTRICITY DATA

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 (e.g. 990101 indicates 1999 January 1). 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).

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. 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).

See CD (program Seenck.exe, menu item AtmElectr).

*Hourly means of the
1999*

Date	00	01	02	03	04	05	06	07	08	09	10	11
990101	-50	-40	-40	-30	-30	-20	-30	-40	[-30]	-20	-50	-70
990102	-80	-50	-40	-50	-70	-50	-50	[-50]	-50	-90	-100	-70
990103	10	30	20	0	10	40	60	30	[50]	50	70	60
990104	0	60	70	70	110	70	30	-	-	60	50	50
990105	20	30	50	50	60	50	70	[70]	-	80	80	70
990106	80	80	90	80	80	120	130	150	100	120	130	100
990107	130	130	130	140	120	120	[120]	70	80	80	70	80
990108	20	0	0	20	30	30	30	[40]	40	40	40	40
990109	0	-S	OBS	+S	20	20	40	[90]	70	40	40	50
990110	70	80	80	80	40	20	20	40	[70]	80	70	60
990111	-10	10	10	40	50	10	0	-	-	OBS	-10	0
990112	10	30	30	40	40	60	60	[40]	40	-	70	30
990113	0	-10	-10	10	20	40	20	-10	-20	30	80	70
990114	40	30	20	30	30	40	40	[60]	60	70	80	80
990115	30	30	30	30	30	40	40	[40]	60	60	60	60
990116	120	120	100	100	90	110	80	80	120	100	100	120
990117	100	140	100	80	60	80	90	130	110	140	140	120
990118	10	10	30	40	60	90	100	-	-	80	60	30
990119	50	50	50	60	50	40	40	-	-	70	70	60
990120	0	-30	30	-10	-10	60	30	30	40	30	-10	50
990121	-50	-40	-90	-20	-40	-60	-10	[-70]	-	-50	-60	-10
990122	70	30	40	40	30	30	40	30	40	20	40	40
990123	20	30	10	20	10	10	20	[30]	50	10	-10	-10
990124	-20	-30	20	10	20	20	0	-10	[10]	[-50]	0	-10
990125	-20	-10	10	0	0	-10	-20	-	-	-10	-10	-10
990126	-30	-10	-30	-30	-30	-10	-30	[10]	-40	-20	10	0
990127	OBS	-80	-10	20	10	10	[10]	10	10	10	0	10
990128	20	10	-20	10	20	30	40	[50]	60	50	50	40
990129	50	70	80	40	60	-S	OBS	[10]	-20	30	30	20
990130	40	40	40	40	40	40	50	50	[50]	50	60	70
990131	50	40	30	30	40	50	60	50	[60]	70	70	90

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	Means
-30	-50	-70	-60	-50	-40	-20	-10	-10	-70	-30	-60	-42
-70	-60	-30	-50	-40	0	0	30	10	-60	-50	-30	-46
50	50	50	40	40	20	0	20	30	0	10	-10	30
50	70	50	40	20	30	10	10	10	30	30	20	-
60	40	50	40	50	70	110	80	90	130	180	130	72
130	120	130	140	90	80	80	130	130	150	160	150	115
90	130	130	80	80	100	130	130	80	80	70	30	100
20	30	40	60	60	60	30	40	30	20	10	0	30
40	40	40	50	60	60	50	40	60	60	70	70	-
60	50	80	80	100	90	-30	20	-30	-10	10	-50	45
-20	-10	-20	-50	-60	-10	-10	-10	0	-20	-20	0	-
30	10	30	60	+S	+S	+S	220	+S	+S	120	30	-
70	60	[50]	50	40	30	20	30	10	30	30	40	28
80	80	50	80	80	90	120	130	80	40	40	20	61
60	60	60	70	80	80	90	90	130	130	120	120	67
110	110	[90]	80	110	130	120	120	130	140	130	130	110
110	90	70	20	80	150	130	80	40	30	30	10	89
30	40	40	20	50	70	60	40	40	30	40	40	-
60	50	50	30	90	30	30	20	70	50	10	40	-
10	30	10	0	-30	-40	-40	-50	-100	-90	-50	-50	-8
-50	-40	20	30	0	-20	-30	0	0	30	20	30	-22
40	30	40	60	70	50	80	80	50	40	40	40	45
10	30	0	-40	-10	10	-40	-30	-20	-40	-30	-10	1
-50	-10	-20	30	-10	0	10	-10	10	10	0	0	-6
-10	-10	-30	-40	-40	-10	20	20	10	-40	-40	-40	-
-20	-10	-10	-30	-20	0	0	-50	-20	30	20	0	-13
10	20	20	40	60	70	60	70	80	70	30	10	24
40	40	50	50	40	40	20	0	10	30	40	40	32
40	50	50	50	50	OBS	60	50	50	50	50	50	-
70	60	50	50	50	60	60	60	60	50	60	50	52
100	90	80	80	80	90	90	110	90	80	70	70	70

Date	00	01	02	03	04	05	06	07	08	09	10	11
990201	70	80	80	80	80	100	90	-	[90]	100	100	110
990202	20	-30	30	-10	-20	20	70	110	110	80	20	20
990203	30	30	30	40	30	40	70	[70]	40	40	30	40
990204	-20	-10	20	60	20	40	20	20	0	0	20	10
990205	-10	20	20	20	20	20	40	[50]	50	30	30	20
990206	30	30	20	20	30	30	30	30	40	40	30	30
990207	30	30	20	20	20	20	30	[30]	30	30	0	40
990208	30	40	40	40	40	50	70	-	[50]	60	50	50
990209	50	40	40	30	30	30	[30]	30	30	30	30	40
990210	-50	-50	-80	-50	0	20	20	[20]	30	40	40	40
990211	30	30	20	10	-30	-S	-S	-S	-S	-S	0	-50
990212	-S	-80	-50	10	20	-20	0	[0]	-140	10	60	70
990213	-140	-90	-S	-S	-S	-S	-30	[-50]	-150	-50	-70	-S
990214	-S	-60	-30	-10	-10	0	-20	[-50]	-10	0	0	30
990215	10	0	10	10	20	20	30	-	-	70	50	50
990216	30	40	40	40	40	100	130	[100]	110	60	80	80
990217	30	30	30	30	30	40	40	[40]	40	40	30	-20
990218	30	40	40	30	30	40	40	[40]	50	40	40	40
990219	40	20	30	10	10	-70	OBS	-40	-60	10	60	40
990220	-S	-50	+S	-90	90	110	140	170	170	140	110	50
990221	40	40	40	40	40	40	30	[10]	40	OBS	OBS	OBS
990222	50	50	40	50	60	OBS	60	-	[70]	50	70	50
990223	40	30	30	30	30	30	40	[50]	50	40	40	40
990224	30	30	30	-S	70	80	50	[40]	40	40	30	20
990225	40	50	40	40	40	40	50	[60]	50	40	40	50
990226	70	50	50	50	40	40	50	[70]	70	70	50	30
990227	60	90	70	70	70	80	80	110	[90]	[80]	80	90
990228	50	50	50	50	50	60	60	[60]	80	120	90	90

12	13	14	15	16	17	18	19	20	21	22	23	Means
110	100	100	100	100	60	60	70	60	20	20	20	78
20	30	30	20	[10]	20	50	50	50	60	30	30	34
20	-50	-40	20	20	20	0	-10	0	-10	-10	-10	20
0	20	20	20	20	20	60	70	70	70	60	0	25
40	20	30	40	OBS	-S	OBS	40	40	40	30	30	-
40	[30]	30	40	40	40	50	40	30	30	30	30	33
50	70	70	70	100	20	20	20	30	30	20	30	36
50	50	50	50	50	50	50	40	50	40	0	40	47
40	40	40	30	40	20	30	0	20	10	0	-50	28
40	50	50	50	40	20	10	20	30	50	50	40	18
-90	-160	-160	-140	-S	-170	-40	-20	-50	-80	-50	-110	-
90	170	140	70	70	90	60	+S	+S	90	90	0	-
-S	30	70	20	-50	-70	-50	-140	-S	-S	-50	-60	-
20	40	30	40	50	50	50	40	30	30	30	30	12
50	40	50	50	50	50	50	50	50	50	40	40	-
60	40	30	10	50	80	70	50	70	30	40	OBS	60
-S	OBS	-S	60	50	+S	+S	-S	40	50	50	40	-
40	40	40	40	40	50	50	50	40	40	40	40	40
50	120	30	-10	40	10	50	40	40	-S	-140	-100	8
-50	30	40	10	80	+S	-S	80	70	70	40	40	-
10	0	40	50	70	120	100	90	100	80	50	60	-
30	40	50	50	50	40	40	50	50	40	40	30	-
40	-S	OBS	OBS	40	50	50	50	OBS	OBS	OBS	30	-
30	0	50	50	50	50	70	70	70	50	40	40	45
50	50	60	70	70	80	80	90	120	90	70	70	60
50	50	60	50	70	70	70	110	110	90	100	80	64
90	90	80	70	60	60	70	80	70	60	50	50	75
80	70	80	60	50	40	40	40	40	30	40	30	59

Date	00	01	02	03	04	05	06	07	08	09	10	11
990301	30	20	30	40	40	30	10	-	-	30	40	50
990302	10	20	10	20	30	30	40	[40]	30	10	-50	10
990303	70	70	60	50	60	40	50	[50]	60	60	50	50
990304	10	0	0	10	20	20	20	[30]	40	40	40	50
990305	30	30	30	30	40	40	30	[20]	-20	-50	-70	10
990306	50	60	60	60	60	60	70	[70]	50	50	50	40
990307	60	70	30	40	30	40	20	[0]	[OBS]	OBS	-S	30
990308	90	80	60	50	40	40	40	-	[40]	40	50	40
990309	20	30	30	30	10	30	40	[50]	70	70	70	60
990310	40	50	30	40	50	50	70	[80]	70	60	60	60
990311	40	30	40	40	40	30	30	[40]	50	50	50	70
990312	40	40	40	40	30	40	50	[50]	50	50	50	50
990313	40	40	30	50	50	40	40	[50]	70	80	80	110
990314	60	50	30	30	40	30	30	[40]	[20]	20	30	40
990315	10	-30	30	10	OBS	OBS	30	[50]	-	-	40	60
990316	50	70	80	40	30	60	80	[80]	[60]	40	20	0
990317	20	20	40	40	40	50	40	[30]	50	40	50	30
990318	10	0	30	30	20	-50	-50	-10	[60]	80	70	80
990319	40	40	30	10	10	-10	-10	[30]	50	60	60	60
990320	20	-10	-10	-20	0	10	20	-10	0	[0]	20	OBS
990321	-10	20	20	30	40	30	30	[20]	20	20	10	30
990322	20	20	0	0	30	40	40	-	[40]	40	30	40
990323	0	30	0	0	0	0	30	[40]	40	40	30	30
990324	30	30	30	10	20	40	40	[40]	40	40	30	40
990325	10	10	10	0	0	0	30	[50]	50	50	40	40
990326	20	10	10	10	0	0	0	0	0	10	10	10
990327	-30	-30	-30	-10	-30	-20	[-10]	[10]	10	30	10	30
990328	-	-	-	-	-	-	-	-	-	-	-	-
990329	-	-	-	-	-	-	-	-	[20]	OBS	40	30
990330	10	10	20	10	0	20	[30]	30	10	0	0	10
990331	-80	-20	10	10	10	20	[0]	20	40	50	5	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	50	50	50	40	50	5	50	40	-20	50	50	-
30	30	30	40	50	50	50	40	50	50	30	40	29
50	40	40	40	40	30	30	40	40	50	40	20	47
40	50	40	50	40	40	40	40	40	40	30	30	32
10	40	30	OBS	OBS	OBS	50	60	60	40	40	50	-
50	70	50	40	50	70	40	40	50	OBS	30	50	53
60	100	80	110	120	OBS	-S	190	170	140	120	110	-
40	30	40	40	40	50	40	50	40	40	30	10	44
50	50	50	50	50	60	80	60	70	60	50	40	49
50	50	50	50	50	50	10	-10	10	40	30	30	45
70	70	70	70	70	80	80	70	70	50	50	50	55
50	60	90	90	100	90	100	120	100	100	70	40	64
110	120	120	120	100	120	120	110	120	70	50	50	79
40	40	40	40	30	10	30	30	20	10	10	-10	30
40	30	40	40	30	20	20	60	80	70	70	60	-
10	40	60	40	30	10	30	20	0	30	20	10	38
50	70	60	60	60	40	-60	-70	-40	-20	-10	0	25
80	70	70	70	70	60	50	60	50	50	60	40	42
60	60	60	60	40	40	70	60	40	40	40	30	40
OBS	50	20	0	OBS	0	20	20	20	30	10	-10	-
40	40	40	40	40	60	70	70	50	40	30	20	33
60	50	50	40	30	30	20	10	10	10	10	10	27
30	30	30	30	30	50	30	-20	0	20	20	20	21
50	50	40	50	40	40	60	40	30	10	0	10	34
40	30	20	20	20	20	30	30	40	30	20	20	25
10	10	10	0	10	30	30	20	-10	-10	-40	-40	4
40	40	40	40	30	10	10	10	0	10	0	0	7
-	-	-	-	-	-	-	-	-	-	-	-	-
20	40	OBS	50	40	20	0	20	10	20	-	-	-
30	40	30	40	30	-10	-50	-40	-40	-50	-50	-60	1
50	50	50	60	70	60	40	40	30	10	10	10	27

Date	00	01	02	03	04	05	06	07	08	09	10	11
990401	30	10	-50	-50	-50	-60	[-50]	-30	30	0	40	50
990402	30	20	20	20	20	20	[30]	40	40	40	70	50
990403	40	40	40	40	40	50	[70]	70	80	70	80	60
990404	20	20	10	20	20	[30]	40	50	40	50	50	50
990405	30	10	10	10	20	30	-	40	30	30	40	40
990406	30	30	20	20	30	40	40	-	20	(30)	(40)	30
990407	+S	-S	10	10	10	-10	[20]	[50]	20	20	30	30
990408	0	0	10	20	30	0	[40]	40	40	30	20	20
990409	30	40	40	40	30	0	[40]	60	50	50	40	40
990410	30	30	20	20	30	30	[40]	40	50	60	60	70
990411	-50	-30	-40	OBS	OBS	OBS	-50	-	30	40	40	30
990412	40	30	30	40	40	40	[50]	-	50	40	40	20
990413	10	20	0	0	10	0	[-10]	10	10	-S	-S	-S
990414	30	30	30	40	40	5	[50]	40	40	40	40	40
990415	10	10	0	10	20	30	[10]	10	20	40	40	30
990416	30	10	20	10	0	10	0	[-90]	-60	-50	-90	-90
990417	-20	-80	-40	-10	-S	-50	[-50]	[-S]	-S	-40	-10	+S
990418	10	10	0	10	10	30	-	40	40	40	30	30
990419	20	20	10	20	30	40	-	-	40	30	30	40
990420	10	10	20	10	10	30	[20]	30	30	30	30	30
990421	10	10	10	10	10	20	[30]	40	40	50	50	50
990422	-50	-80	0	-10	-10	0	[10]	30	-	30	40	40
990423	40	40	30	40	30	20	[20]	40	30	0	0	-S
990424	30	30	-20	10	20	20	60	70	50	50	50	[60]
990425	30	30	60	50	40	-20	[0]	40	70	50	60	40
990426	40	40	40	20	40	50	-	-	60	60	60	60
990427	20	20	20	20	30	40	[40]	50	40	40	40	50
990428	60	20	-10	10	10	30	30	30	20	20	20	20
990429	30	20	30	30	[30]	[40]	60	50	[50]	40	40	40
990430	30	30	40	30	30	10	0	0	10	0	30	30

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	60	60	50	60	60	40	30	40	30	30	30	19
50	50	40	50	30	-50	-50	20	30	30	40	50	23
50	40	40	60	70	70	40	70	60	40	30	20	53
40	40	50	40	40	40	50	40	50	50	40	30	38
40	40	50	50	50	50	40	40	40	40	40	30	35
40	40	40	40	30	20	30	30	20	20	10	10	-
10	-10	-10	-10	OBS	OBS	OBS	OBS	OBS	-40	0	-10	-
40	40	-30	40	40	50	40	50	50	40	30	30	29
40	40	50	50	50	60	40	40	40	40	40	40	43
60	60	70	60	50	50	40	40	40	40	-90	-60	35
20	30	20	10	30	10	20	20	20	0	40	30	-
10	30	30	30	20	30	20	20	30	40	30	30	32
10	40	40	40	30	50	50	40	40	40	40	40	-
40	40	40	30	40	40	40	30	40	40	30	20	38
20	30	40	40	40	50	50	40	40	40	30	40	29
-60	-30	-10	10	40	50	40	OBS	OBS	-30	0	40	-
-30	20	30	40	40	30	20	-10	-10	10	70	30	-
30	40	40	40	30	30	+S	10	40	30	30	20	27
40	40	40	30	20	+S	40	30	30	30	20	20	-
50	10	30	30	30	20	30	30	20	10	10	10	23
40	40	30	30	30	30	10	10	10	-20	-40	0	21
10	40	40	40	40	40	60	40	40	40	20	30	19
OBS	OBS	OBS	OBS	40	60	70	60	50	40	20	20	-
50	20	-S	OBS	OBS	OBS	+S	30	40	60	60	50	-
60	60	30	70	80	60	40	50	50	50	40	40	45
0	70	70	60	60	70	70	50	60	60	30	30	-
OBS	OBS	OBS	OBS	OBS	OBS	OBS	50	-60	0	30	40	-
40	40	50	50	50	40	40	OBS	20	20	20	30	29
40	40	40	40	40	40	40	50	40	40	30	30	39
30	40	30	30	40	40	30	20	10	20	20	20	24

Date	00	01	02	03	04	05	06	07	08	09	10	11
990501	10	10	10	10	10	10	[20]	20	10	10	20	20
990502	0	-10	0	10	10	30	40	40	30	30	40	60
990503	20	10	30	40	40	50	-	[50]	40	50	40	50
990504	20	20	20	30	40	40	[50]	40	40	40	30	-20
990505	OBS	0	-20	OBS	-70	-20	0	50	30	20	20	40
990506	40	30	30	30	40	40	[30]	40	50	50	50	60
990507	30	20	30	10	10	-50	[-20]	0	0	10	30	40
990508	30	40	30	30	40	30	30	40	40	40	40	40
990509	-50	10	0	10	20	30	[60]	50	50	50	40	40
990510	40	30	20	30	30	40	-	-	40	40	40	40
990511	30	30	40	40	30	30	[10]	20	20	20	30	10
990512	40	50	40	40	20	40	[40]	70	60	7	50	50
990513	-10	0	10	20	20	10	[40]	70	60	40	40	40
990514	20	0	-30	20	30	20	10	-S	-S	20	50	30
990515	30	20	20	20	20	50	[40]	50	60	30	20	40
990516	40	80	40	40	50	60	[60]	70	60	60	40	50
990517	50	50	40	40	40	70	-	[60]	40	30	30	30
990518	10	10	10	10	10	10	[20]	20	2	20	20	20
990519	20	20	20	20	20	20	[20]	30	30	40	30	30
990520	20	20	20	20	20	20	[20]	20	20	30	30	40
990521	OBS	OBS	60	70	50	60	30	30	40	50	40	30
990522	20	20	20	30	30	[60]	70	60	40	50	60	50
990523	20	20	30	30	30	20	[20]	30	30	30	40	40
990524	20	20	20	20	10	20	[30]	-	60	70	70	70
990525	20	20	20	30	30	30	30	-	[50]	60	60	70
990526	20	30	20	20	10	10	[20]	20	30	50	60	70
990527	30	30	10	20	30	60	[40]	40	30	50	40	50
990528	30	30	30	30	40	60	[50]	40	40	50	50	50
990529	30	20	40	20	30	60	50	[40]	40	50	50	50
990530	20	20	10	20	30	30	30	[20]	20	40	40	60
990531	20	30	40	30	30	40	-	-	30	60	80	80

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	50	40	10	30	10	10	20	30	10	-10	10	17
100	50	-10	10	40	30	40	40	30	20	30	30	29
50	60	60	60	40	30	40	40	30	30	20	20	39
30	0	40	0	-50	-50	-70	-90	-30	-10	OBS	-10	5
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20	10	20	20	30	30	30	20	10	20	30	30	24
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50	50	50	50	40	30	50	50	50	40	40	40	-
50	50	60	70	50	50	30	30	40	40	40	40	40
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30	30	30	30	30	30	20	20	20	20	20	10	33
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30	30	40	40	40	40	30	30	30	30	30	30	29
-S	-S	+S	0	20	10	-50	OBS	OBS	20	OBS	OBS	-
OBS	+S	-S	-S	OBS	60	30	40	30	30	30	30	-
40	50	60	60	50	30	20	20	20	20	30	30	39
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50	50	50	60	50	50	40	40	30	30	20	20	40
60	60	70	70	60	50	50	40	30	20	10	10	36
80	70	50	70	50	40	40	30	+S	OBS	OBS	OBS	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
990601	-S	70	30	10	30	30	40	[40]	30	40	50	60
990602	10	10	20	30	30	30	30	30	[30]	30	40	40
990603	-60	-20	+S	30	30	30	[40]	40	30	40	40	40
990604	10	10	10	10	20	20	[20]	20	30	30	+S	40
990605	30	30	30	30	30	50	[80]	80	80	80	80	70
990606	30	30	20	20	30	30	20	[20]	10	20	30	40
990607	30	30	30	30	30	30	-	-	40	50	50	50
990608	+S	30	30	30	30	40	[20]	OBS	-S	50	40	30
990609	-	-	-	30	30	40	[60]	70	60	70	70	60
990610	40	40	30	30	40	40	[40]	50	60	80	80	80
990611	20	20	20	20	0	40	[40]	40	40	50	60	60
990612	+S	+S	20	20	40	60	80	[60]	50	50	50	50
990613	60	70	70	50	50	50	40	[40]	50	50	80	70
990614	50	50	40	40	40	40	-	-	-	50	50	60
990615	30	30	40	30	30	20	[20]	30	40	40	50	40
990616	OBS	OBS	+S	10	20	30	[40]	30	40	40	50	50
990617	30	20	30	30	30	20	[10]	20	20	20	30	20
990618	20	10	20	20	30	30	[40]	30	20	30	10	10
990619	50	50	50	50	50	50	[50]	50	50	50	50	50
990620	40	40	40	40	40	40	[30]	20	40	50	50	50
990621	30	30	20	30	20	30	-	OBS	-S	0	20	+S
990622	-	-	-	-	-	-	-	-	10	10	30	70
990623	40	30	30	20	40	40	[40]	50	40	40	40	40
990624	40	40	40	40	50	50	50	50	60	50	50	40
990625	30	30	30	20	30	40	[40]	40	40	50	50	60
990626	10	0	0	10	20	30	30	30	20	30	30	30
990627	10	20	30	30	30	20	30	[20]	30	40	40	40
990628	10	20	20	10	20	40	-	[30]	30	30	50	60
990629	20	30	30	30	30	30	30	[40]	3	60	60	70
990630	30	30	20	10	20	30	[30]	30	40	60	50	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
80	70	60	70	50	40	40	30	30	20	10	10	41
50	50	60	60	50	50	40	40	30	40	30	20	35
40	40	60	60	50	40	30	20	10	10	10	10	27
-S	OBS	OBS	OBS	OBS	-S	50	30	30	30	40	40	-
50	50	60	70	50	50	50	40	40	30	30	30	51
40	40	50	50	50	50	50	40	40	40	40	40	35
60	50	60	60	50	50	40	40	40	+S	OBS	OBS	-
40	40	0	OBS	OBS	OBS	OBS	+S	-	-	-	-	-
70	60	60	60	60	60	60	60	60	50	50	40	-
70	70	70	70	70	60	40	40	30	30	30	20	50
60	60	70	40	40	50	OBS	OBS	OBS	OBS	-S	+S	-
60	60	60	60	70	70	70	70	80	80	70	60	-
40	60	60	60	70	70	60	50	50	50	50	50	56
60	60	80	70	60	50	50	50	50	40	40	30	-
50	40	50	50	40	+S	-S	OBS	10	20	-10	-10	-
40	60	50	50	50	50	40	40	40	40	30	40	-
30	40	40	50	50	40	40	40	20	20	20	30	29
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50	50	50	50	40	40	50	50	50	50	50	40	49
50	50	50	50	50	50	40	40	40	30	20	20	40
OBS	-20	-10	-	-	-	-	-	-	-	-	-	-
-S	-S	10	10	40	10	20	40	40	40	30	40	-
40	40	40	40	50	50	50	40	50	70	40	40	42
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40	40	[40]	40	30	30	30	20	30	10	10	0	23
40	50	50	40	40	40	30	20	20	10	30	10	30
60	70	-S	OBS	70	40	30	30	30	30	10	10	-
60	60	70	80	70	40	30	30	40	30	30	30	43
50	50	50	50	40	40	40	30	30	30	30	30	36

Date	00	01	02	03	04	05	06	07	08	09	10	11
990701	20	20	20	20	30	30	[30]	20	30	30	30	30
990702	20	10	20	20	30	30	[30]	30	30	40	50	50
990703	10	10	20	20	30	40	[60]	60	60	70	80	80
990704	10	20	20	20	30	30	30	[30]	30	30	40	50
990705	30	30	30	30	30	30	[30]	-	20	30	40	40
990706	10	20	20	20	30	30	[40]	40	40	40	40	40
990707	10	10	10	10	-S	+S	-S	OBS	OBS	OBS	OBS	OBS
990708	30	0	0	30	40	70	[30]	30	40	30	30	40
990709	10	30	30	30	20	10	20	70	OBS	-S	50	OBS
990710	OBS	OBS	-S	OBS	OBS	OBS	OBS	+S	50	100	100	110
990711	20	20	50	OBS	10	20	50	[60]	80	60	40	50
990712	OBS	20	30	30	30	70	-	-	-	50	-	50
990713	20	10	10	30	30	20	[40]	30	40	40	40	40
990714	40	OBS	80	-S	-S	60	[40]	[40]	100	40	100	0
990715	20	10	10	20	40	50	[40]	30	30	40	40	40
990716	30	30	20	30	30	40	50	[40]	30	60	60	60
990717	30	30	30	40	40	40	[40]	50	50	70	70	80
990718	20	10	20	30	30	50	50	[40]	40	60	80	80
990719	20	20	20	20	30	50	40	-	[40]	50	50	50
990720	10	10	10	20	30	40	[40]	40	40	50	50	60
990721	20	10	30	20	20	30	[40]	40	40	50	60	60
990722	20	70	70	50	40	40	-	60	50	60	0	10
990723	-S	OBS	+S	20	30	70	[60]	80	60	50	40	40
990724	20	20	20	20	10	0	30	40	40	40	40	40
990725	40	30	20	30	30	20	20	[30]	4	50	50	50
990726	40	30	30	40	40	40	[40]	-	30	30	40	50
990727	20	30	30	30	40	30	[30]	30	30	30	40	40
990728	20	20	20	20	30	40	[40]	40	40	60	60	60
990729	40	30	30	30	30	40	[40]	50	40	40	60	50
990730	40	30	30	30	30	40	[50]	50	60	60	70	60
990731	20	30	30	30	40	40	[50]	40	50	60	70	70

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	50	50	60	50	40	30	30	30	30	30	30	33
60	60	-S	OBS	-S	30	20	10	10	10	10	10	-
80	80	80	80	70	40	30	30	30	10	10	10	45
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40	40	50	50	40	40	40	40	30	30	30	10	34
OBS	+S	120	50	40	30	10	20	30	20	10	10	-
50	40	30	40	40	30	-10	0	10	0	-10	-10	24
40	50	30	40	40	20	20	10	30	-S	OBS	OBS	-
-S	OBS	100	OBS	OBS	OBS	-10	OBS	-S	10	20	30	-
40	0	-S	OBS	40	50	40	40	40	50	30	-S	-
20	-20	-S	OBS	80	40	40	40	40	30	10	20	-
50	60	70	50	40	70	60	40	40	30	40	40	39
30	20	10	20	30	30	30	20	20	20	10	20	-
40	40	40	40	40	40	40	30	40	30	20	30	33
50	60	40	50	60	60	40	40	30	20	20	20	40
60	70	70	80	60	60	40	40	30	30	30	30	49
80	90	90	90	60	50	40	40	30	30	30	30	49
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70	70	70	60	+S	40	50	40	40	40	40	30	41
50	40	50	40	40	+S	OBS	+S	20	20	10	10	-
20	10	0	30	0	OBS	OBS	OBS	-10	-40	-S	-10	-
40	40	30	10	0	20	30	20	10	30	30	30	-
40	[40]	40	40	40	40	50	40	40	40	40	40	35
50	50	50	40	50	50	50	40	40	40	40	40	40
50	60	50	50	60	40	40	40	50	60	40	30	43
40	50	70	60	60	50	40	40	40	40	40	30	39
60	70	60	60	50	40	40	30	40	40	40	50	43
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60	60	60	40	20	20	20	20	30	20	20	10	38

Date	00	01	02	03	04	05	06	07	08	09	10	11
990801	20	10	10	10	10	20	40	[30]	[40]	60	60	70
990802	20	10	10	10	20	30	-	-	40	50	50	50
990803	10	10	10	20	20	50	50	50	[50]	50	50	50
990804	20	20	10	10	10	30	[40]	40	50	50	60	60
990805	10	10	20	10	10	20	20	[30]	30	30	30	30
990806	10	10	10	20	30	30	[40]	40	40	50	50	60
990807	20	20	10	10	20	[30]	30	30	30	50	50	60
990808	10	30	30	20	10	20	[50]	[50]	30	30	50	40
990809	50	40	30	30	30	40	40	-	40	40	40	30
990810	40	30	10	10	20	40	50	[40]	40	40	50	50
990811	10	10	0	-10	10	20	30	40	[80]	50	40	50
990812	40	40	40	40	40	50	[50]	60	70	60	60	60
990813	50	40	40	30	20	20	[20]	30	40	40	40	40
990814	30	20	10	20	20	30	[40]	40	40	40	40	40
990815	30	40	40	20	30	40	[40]	50	50	50	50	50
990816	10	0	10	0	10	10	-	-	70	120	70	40
990817	30	40	70	50	70	70	[60]	80	70	60	50	50
990818	70	100	30	30	20	30	[40]	60	70	50	40	40
990819	40	40	40	50	40	40	[20]	40	30	40	50	50
990820	30	40	40	30	30	20	OBS	OBS	OBS	140	100	70
990821	40	50	20	30	20	80	[80]	80	80	40	40	40
990822	30	40	40	40	40	50	[60]	50	60	60	70	60
990823	40	40	40	40	40	40	[40]	-	60	70	50	50
990824	20	30	20	30	30	40	[40]	30	30	30	30	30
990825	20	20	20	20	30	40	[60]	40	30	40	40	50
990826	20	20	20	30	30	30	[30]	30	30	30	30	30
990827	40	40	30	20	10	0	[10]	30	10	40	70	30
990828	40	50	40	40	40	60	[50]	50	40	40	40	50
990829	30	20	0	10	30	30	20	10	50	30	30	40
990830	20	10	-	-	-	-	-	-	30	30	30	30
990831	30	30	30	40	40	60	[80]	[110]	90	50	40	30

Date	00	01	02	03	04	05	06	07	08	09	10	11
990901	30	30	40	30	30	[30]	[30]	40	40	40	40	0
990902	30	30	30	30	30	[20]	-S	-50	-80	-110	OBS	-S
990903	30	40	40	30	30	[30]	[-40]	-10	-10	30	60	50
990904	70	60	50	70	[110]	[70]	160	110	60	70	60	50
990905	40	60	60	60	60	50	70	[30]	0	20	-10	30
990906	40	40	30	30	20	30	[30]	-	40	40	40	40
990907	40	40	40	40	40	50	[60]	40	40	50	50	50
990908	30	30	40	30	40	50	[50]	40	40	40	40	40
990909	30	30	30	30	40	40	[70]	60	50	50	50	50
990910	40	30	30	40	40	50	[50]	50	50	50	60	50
990911	-	-	-	-	-	-	-	-	-	-	-	-
990912	-	-	-	-	-	-	-	-	-	60	90	70
990913	30	20	30	30	30	30	-	-	40	50	50	60
990914	20	30	30	30	30	30	[80]	60	40	30	30	50
990915	30	30	30	30	30	30	(60)	[60]	60	50	40	40
990916	30	30	40	30	30	50	[40]	50	30	30	40	50
990917	30	30	30	30	30	30	[30]	30	30	30	40	40
990918	10	10	10	20	20	30	[30]	40	40	40	30	30
990919	-S	20	30	30	30	30	30	[20]	10	30	30	30
990920	20	20	30	30	10	10	-	-	30	40	40	40
990921	20	10	10	20	10	30	+S	+S	OBS	OBS	OBS	0
990922	20	20	40	40	40	[40]	70	(70)	50	60	60	60
990923	60	60	50	70	90	90	[100]	60	50	40	40	30
990924	30	30	20	20	30	30	[40]	50	50	4	40	40
990925	30	30	30	40	40	40	[50]	50	40	40	50	40
990926	30	30	30	40	40	40	[40]	70	50	40	50	50
990927	40	40	40	40	40	40	-	-	40	40	40	40
990928	40	40	40	20	50	90	[110]	80	50	30	40	40
990929	40	50	30	30	30	40	[60]	70	50	50	50	50
990930	30	30	40	30	20	40	40	50	50	5	50	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
20	-30	OBS	20	20	+S	+S	40	50	50	40	30	-
60	40	40	40	40	40	40	40	40	30	30	30	-
30	30	30	OBS	-S	-10	20	30	30	30	4	50	-
30	30	40	20	20	30	30	30	30	30	30	30	54
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40	40	-S	OBS	40	40	40	50	40	40	30	30	-
50	60	30	60	0	20	30	30	50	50	40	50	42
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
80	70	60	50	50	50	30	30	30	30	20	30	-
60	70	50	50	40	40	30	30	30	30	30	30	-
40	50	40	30	30	30	30	30	30	30	30	30	36
40	50	50	30	30	30	30	30	30	30	30	30	37
60	70	70	60	60	50	40	40	30	30	30	30	43
40	40	50	40	30	30	30	30	20	20	20	20	31
30	30	30	30	30	30	30	30	30	30	10	OBS	27
30	30	30	30	30	30	30	30	30	30	30	20	28
40	30	40	30	40	40	40	40	40	30	20	30	-
-30	0	20	20	20	30	30	-S	OBS	30	40	30	-
70	70	60	70	60	60	50	50	40	40	50	50	51
40	50	40	40	50	50	50	50	40	40	20	30	52
50	60	60	50	50	50	40	40	40	30	20	30	39
40	40	40	40	40	40	60	50	50	50	40	30	42
50	60	50	60	50	40	40	30	-S	OBS	OBS	30	-
30	30	30	30	30	40	40	40	40	30	40	40	-
40	40	20	OBS	OBS	OBS	+S	0	20	30	30	30	-
50	50	40	40	40	40	40	50	50	50	40	50	45
[40]	40	30	20	30	20	20	20	10	30	30	20	33

Date	00	01	02	03	04	05	06	07	08	09	10	11
991001	20	10	10	30	30	10	[0]	40	20	30	50	50
991002	30	30	30	30	20	30	40	40	40	40	40	40
991003	20	30	20	30	40	[40]	40	50	40	40	40	40
991004	20	10	10	0	10	10	-	-	20	30	40	40
991005	30	30	30	20	30	30	[40]	40	40	40	40	40
991006	20	10	10	10	20	30	[30]	30	30	30	40	40
991007	30	30	30	30	30	40	[50]	50	40	30	40	40
991008	30	30	30	30	30	[30]	40	(40)	40	40	40	40
991009	40	40	30	30	30	[20]	-10	10	0	10	20	40
991010	20	20	30	20	30	40	[40]	30	40	20	30	40
991011	40	40	40	30	40	40	-	-	40	50	40	50
991012	40	30	30	30	20	30	40	[40]	40	40	40	40
991013	30	30	30	30	40	40	[30]	[40]	40	30	10	30
991014	40	40	40	30	30	40	[50]	60	60	40	40	50
991015	-10	OBS	-30	-10	-10	0	[30]	70	80	80	70	70
991016	40	50	40	40	40	50	[50]	50	60	60	60	50
991017	30	30	30	40	40	40	60	[60]	60	50	40	40
991018	20	30	30	30	30	30	-	-	40	40	50	50
991019	40	30	40	40	50	50	[60]	50	50	40	40	40
991020	40	40	40	40	40	40	[30]	30	40	40	40	40
991021	-10	0	10	-10	-10	0	[-10]	-20	-20	-20	-10	-10
991022	30	30	20	20	10	0	-	-10	-10	-10	-10	-10
991023	-30	-10	-10	-10	-10	-20	[-10]	0	0	-10	-10	-30
991024	0	-60	-S	-S	20	-10	[-10]	20	60	70	30	10
991025	30	20	30	30	30	40	-	-	40	50	50	40
991026	-30	-10	10	20	40	40	[40]	110	80	20	40	20
991027	10	10	20	20	30	30	[40]	50	40	40	40	40
991028	40	40	30	20	20	30	[40]	50	70	60	50	50
991029	50	30	-40	+S	-40	+S	[30]	10	-	40	70	50
991030	30	30	30	40	30	40	[30]	20	-10	-10	-10	-10
991031	-50	-40	-40	-30	-20	0	20	-20	[20]	60	50	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	50	40	40	40	40	40	50	40	40	40	30	33
40	40	50	50	40	40	30	20	20	10	10	20	33
40	40	40	40	40	30	40	50	40	20	10	20	35
40	40	50	40	50	40	40	40	20	20	30	30	-
40	30	30	40	30	30	40	30	30	30	30	20	33
30	30	30	40	40	40	40	40	30	30	30	20	29
40	40	50	40	40	50	50	50	50	40	30	20	39
50	50	40	40	50	50	50	50	40	40	40	40	40
30	40	50	40	30	30	40	30	20	30	40	40	28
40	-	-	40	40	50	50	50	40	50	40	40	-
50	60	50	40	40	50	40	40	40	40	40	40	-
50	50	60	40	40	30	40	40	40	40	40	30	38
30	40	50	60	60	70	60	60	50	40	40	60	42
50	50	60	50	50	50	40	80	40	50	40	-10	45
70	70	60	60	40	50	60	80	60	50	30	40	44
50	50	50	50	50	40	50	50	40	40	30	30	47
40	40	40	30	30	40	50	60	40	40	40	30	42
40	40	40	50	50	60	50	50	50	40	40	40	-
40	30	40	40	40	40	50	40	40	30	40	40	42
40	40	40	40	40	40	30	20	10	20	10	10	33
0	10	20	20	20	10	10	20	20	10	30	40	4
0	-10	0	20	-10	-30	-40	-30	-30	-40	-50	-40	-9
-10	0	10	20	30	30	30	10	0	-10	-10	-10	-3
10	30	40	50	30	30	40	40	40	30	30	40	-
50	50	40	50	50	50	40	40	40	40	20	0	-
20	20	30	30	60	60	60	60	40	OBS	-30	0	32
40	40	40	50	50	60	70	50	50	40	40	40	39
60	50	40	30	30	30	30	30	30	80	40	30	41
50	60	60	60	60	50	50	60	40	40	40	40	-
-10	-10	-10	-20	-10	-10	-20	-20	-40	-50	-40	-40	-3
40	40	30	40	40	40	40	50	50	40	40	40	20

Date	00	01	02	03	04	05	06	07	08	09	10	11
991101	40	20	20	10	10	10	10	-	-	30	30	30
991102	10	20	20	30	30	40	30	[40]	30	30	30	30
991103	20	20	20	40	60	[70]	30	40	30	20	0	-10
991104	20	30	30	20	20	20	10	[10]	0	0	10	20
991105	0	0	0	0	0	-10	-10	[-30]	-40	-50	-40	-30
991106	-30	-10	0	0	0	0	[-10]	-10	0	-10	0	20
991107	0	10	20	-20	-10	0	0	0	-10	10	10	10
991108	-20	-30	0	0	10	10	20	-	10	20	40	50
991109	20	20	20	20	0	-	-	-	[-S]	-S	-30	+S
991110	OBS	-S	-S	-S	-	-	-S	[-S]	-S	10	10	20
991111	10	20	20	20	20	20	20	[20]	30	30	20	-
991112	80	70	50	30	30	60	40	[30]	40	30	40	50
991113	30	30	40	20	30	30	30	[40]	40	30	40	40
991114	40	40	30	30	30	20	30	[30]	40	40	40	40
991115	40	20	10	20	30	30	60	-	[50]	50	50	40
991116	60	50	50	50	40	40	40	[40]	10	10	20	40
991117	40	40	30	40	20	30	50	[40]	50	50	40	40
991118	40	10	30	40	40	40	40	40	[50]	40	40	40
991119	40	20	30	40	40	30	50	[80]	30	+S	OBS	OBS
991120	20	20	30	40	40	40	40	50	50	70	60	50
991121	50	40	40	50	50	60	50	60	50	[50]	50	50
991122	50	30	30	40	40	30	40	-	-	30	40	50
991123	40	30	30	30	10	20	20	[20]	0	10	20	30
991124	30	20	10	10	10	0	-10	[-30]	-50	-50	10	40
991125	10	10	30	40	40	50	50	[50]	50	50	50	40
991126	40	30	40	50	50	60	60	[50]	50	70	60	70
991127	-40	-30	-20	0	10	20	10	0	-10	-10	-10	-10
991128	20	20	20	20	30	30	20	0	[20]	30	20	10
991129	-20	-50	-40	0	0	0	[0]	-	20	0	-30	-30
991130	30	20	40	50	40	30	50	[40]	(40)	30	30	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	40	40	20	10	0	-10	0	20	20	20	10	-
30	30	20	20	20	20	70	60	50	40	30	30	32
-10	-10	-10	-10	10	10	0	10	20	20	20	20	17
20	30	20	20	20	10	20	20	20	10	10	10	17
-30	-30	-30	-30	-30	-30	-40	-20	-20	-30	-20	-20	-23
40	30	30	20	20	40	30	20	-50	-10	10	0	5
20	20	20	20	20	30	30	30	20	10	20	10	11
50	60	50	40	70	70	50	50	40	40	30	20	30
-S	OBS	-	-S	-S	-S	-S	-S	-	-	-	OBS	-
20	20	10	10	20	10	20	20	0	20	20	20	-
-	20	30	30	30	40	40	80	80	80	70	80	-
40	40	40	50	50	40	40	50	40	40	40	30	44
40	40	40	50	60	50	40	20	10	30	40	40	36
50	60	60	30	20	30	40	50	50	30	20	30	37
40	50	60	60	50	60	70	70	70	60	70	70	49
50	50	50	50	60	50	50	50	30	OBS	OBS	10	-
40	40	30	OBS	+S	60	70	50	60	90	80	30	-
40	40	50	50	50	50	70	60	70	60	30	30	44
-S	50	+S	+S	+S	-S	70	-S	4	10	10	10	-
60	50	[70]	60	60	70	50	50	70	60	50	50	50
70	60	80	OBS	OBS	OBS	20	40	40	30	30	30	-
50	40	30	30	30	10	20	20	20	20	30	40	-
30	30	30	20	20	10	10	10	20	20	30	30	22
20	10	20	20	10	-40	40	50	20	0	0	10	6
40	40	30	40	40	30	50	40	30	40	40	40	39
70	70	50	50	40	30	20	30	30	20	0	-30	42
10	0	10	[20]	20	20	30	10	30	30	20	30	6
20	0	10	10	10	10	10	0	10	0	0	-10	13
-20	-30	-70	-70	-50	-40	-60	-40	-40	-50	-30	-30	-30
30	30	30	30	20	-50	-10	-10	0	0	-10	0	20

Date	00	01	02	03	04	05	06	07	08	09	10	11
991201	30	0	-10	0	30	10	-20	[-10]	30	0	30	40
991202	40	60	60	60	50	50	50	[70]	50	70	50	50
991203	-50	10	20	40	40	30	40	[40]	30	40	30	30
991204	40	30	40	40	50	50	40	40	50	50	50	70
991205	10	20	20	0	0	OBS	40	OBS	30	40	40	50
991206	40	50	40	40	40	40	40	-	-	50	50	50
991207	40	40	40	40	40	40	50	[30]	40	40	50	50
991208	40	50	40	50	40	30	40	[20]	40	50	50	50
991209	10	30	50	50	50	60	50	[70]	80	130	130	80
991210	10	30	10	20	30	50	40	[50]	50	50	50	-
991211	OBS	OBS	-S	-S	-S	-	-	-	70	90	70	30
991212	50	40	20	40	30	40	40	20	[30]	20	30	40
991213	-	-	-	-	-	-	-	-	-	-	50	50
991214	40	40	30	40	40	40	40	[50]	50	50	50	50
991215	40	40	40	40	40	40	40	[40]	(40)	70	60	50
991216	40	40	40	40	40	30	[40]	40	50	50	40	50
991217	50	50	50	50	40	60	50	50	50	[60]	[40]	40
991218	30	50	50	30	10	20	40	[40]	50	50	60	60
991219	70	50	40	70	60	70	60	[60]	-20	-20	40	30
991220	30	30	-10	30	10	20	10	-	-	50	50	50
991221	50	40	40	30	30	40	40	[40]	40	50	50	50
991222	70	60	50	50	50	50	70	[90]	70	70	60	70
991223	10	0	10	10	20	20	10	[0]	0	-10	10	30
991224	-50	-40	-60	-60	-30	-10	-10	-50	[-70]	-60	-50	-50
991225	-70	-50	-50	-60	-70	-60	[-60]	-70	-80	-70	-60	-50
991226	70	60	80	90	70	80	30	60	50	30	20	-50
991227	50	40	30	50	30	30	0	70	70	60	-	-
991228	40	50	50	40	OBS	-S	-S	[-S]	OBS	OBS	OBS	OBS
991229	40	30	30	30	30	30	30	[40]	[50]	50	50	50
991230	30	-10	10	20	20	20	40	3	[40]	40	50	+S
991231	40	40	30	20	30	20	30	[50]	60	60	70	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	30	20	-20	30	60	80	100	50	40	30	50	26
50	70	60	60	50	40	40	40	40	0	0	10	47
20	-20	-10	-20	-30	-10	30	20	30	40	40	40	18
70	60	70	[40]	50	50	40	50	50	70	60	50	50
50	50	50	50	50	50	50	50	50	50	50	40	-
60	60	70	50	50	30	30	50	50	50	50	50	-
50	60	60	50	-30	-30	-40	0	30	30	30	40	31
50	40	50	40	60	60	40	50	40	20	0	10	40
30	30	20	20	30	40	40	40	30	30	10	0	46
50	50	70	70	60	50	50	50	-	-	-	OBS	-
40	30	30	50	50	30	30	50	40	40	40	50	-
50	50	50	60	40	40	50	-20	20	40	-	-	-
40	40	40	40	50	50	50	50	50	40	40	40	-
50	40	50	60	70	70	70	70	-50	30	50	50	45
50	60	60	60	80	60	60	50	60	40	40	40	50
60	50	50	50	70	80	90	90	90	70	60	50	55
50	60	50	50	40	50	60	50	70	70	60	50	52
50	70	50	80	80	80	80	80	90	80	80	70	58
20	30	50	50	OBS	100	50	40	50	50	60	40	46
60	50	50	60	60	70	60	50	50	40	40	40	-
40	40	40	40	40	50	60	70	80	110	80	90	52
70	70	70	60	90	7	80	70	60	30	10	0	60
50	50	50	20	-30	-20	-50	-70	-90	-80	50	-90	-8
-30	-30	-40	-50	-50	-50	-70	-60	-50	-50	-70	-50	-48
-50	-30	-20	30	10	-10	10	-10	OBS	-S	60	70	-
-	-30	-S	OBS	10	30	40	50	50	70	60	40	-
50	40	40	40	30	30	40	50	50	40	50	40	-
OBS	OBS	OBS	OBS	+S	+S	60	50	40	40	50	40	-
50	50	70	60	50	60	70	90	80	70	50	40	50
50	40	50	50	70	90	50	70	60	40	40	40	41
70	140	110	80	90	110	110	80	80	70	80	70	66

*Hourly means of the
2000*

Date	00	01	02	03	04	05	06	07	08	09	10	11
000101	70	70	60	60	50	40	50	[40]	60	80	80	130
000102	160	140	70	120	80	50	40	[70]	120	50	50	40
000103	20	20	20	10	30	70	130	170	-	80	90	120
000104	70	80	70	50	40	40	30	[50]	60	60	70	70
000105	80	110	80	60	70	80	60	[20]	70	70	70	70
000106	50	50	50	50	40	50	80	[120]	130	110	110	120
000107	80	70	80	110	130	140	110	[60]	70	70	70	80
000108	20	70	70	40	50	20	30	[10]	40	30	50	50
000109	-20	-20	-30	-40	-10	-10	-20	[0]	-20	10	40	20
000110	10	10	10	20	10	20	40	-	[50]	60	50	70
000111	50	80	50	40	40	40	30	[40]	50	60	70	70
000112	50	50	60	70	50	50	70	[60]	40	20	20	30
000113	-80	-100	-100	-20	-50	-10	-10	[10]	-20	20	40	50
000114	-50	-50	-60	-50	-40	-40	-40	[-30]	-30	-30	-20	0
000115	0	-10	-20	-40	-30	-20	-20	[-10]	30	20	20	30
000116	40	30	20	20	30	40	30	20	[30]	40	50	50
000117	50	40	30	20	30	40	20	-	-	30	40	40
000118	10	10	0	OBS	20	20	20	[0]	0	10	60	+S
000119	30	30	30	30	30	40	10	[40]	[-S]	30	40	40
000120	40	30	30	20	20	30	50	[70]	70	50	50	50
000121	30	30	30	30	40	30	30	[40]	[40]	40	40	OBS
000122	50	50	30	40	40	30	40	0	30	40	40	20
000123	40	20	30	30	30	30	20	[40]	40	60	120	110
000124	20	40	30	30	40	40	50	-	[50]	60	60	70
000125	10	30	20	20	20	30	40	[40]	50	50	50	40
000126	40	40	40	40	40	50	60	[80]	80	80	50	50
000127	40	30	30	20	30	40	50	[50]	50	60	60	60
000128	50	50	50	40	40	40	40	[40]	60	50	40	50
000129	30	30	30	10	10	10	20	30	[30]	50	50	60
000130	40	40	40	40	40	30	30	[-S]	OBS	OBS	OBS	OBS
000131	-50	10	30	50	70	80	100	90	-	-	-	-

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	Means
120	110	100	120	110	80	90	100	140	210	90	120	91
40	70	30	30	30	0	20	50	90	100	80	50	66
90	90	80	180	90	120	120	120	120	60	70	80	86
80	90	80	50	40	60	70	70	60	120	130	120	69
70	50	40	60	70	60	70	60	50	60	70	50	65
180	100	130	120	180	200	170	170	160	180	80	80	113
70	110	70	70	70	120	190	210	130	70	30	30	93
50	40	40	-10	-20	-30	30	30	-10	0	20	0	26
10	20	10	20	20	40	50	70	40	10	0	10	8
70	60	50	40	30	20	0	0	30	20	40	40	-
70	60	60	50	60	70	50	60	70	70	60	80	58
40	20	-40	-10	70	60	30	30	-110	-70	-30	-20	22
-30	-30	-30	-40	-10	-10	-30	-20	-10	-40	-50	-50	-35
-20	-10	30	40	30	-10	-10	40	40	50	20	30	-9
40	50	50	70	70	50	40	40	50	50	50	40	23
50	40	50	50	50	50	60	50	70	80	70	50	45
50	50	40	40	40	40	40	20	10	10	10	30	-
OBS	OBS	20	40	60	50	50	+S	50	+S	40	30	-
40	40	40	50	50	50	-S	30	40	40	40	40	37
40	40	40	40	50	50	70	60	40	40	20	20	43
OBS	OBS	40	OBS	40	OBS	60	60	70	60	50	60	-
[10]	30	20	20	30	40	50	50	40	50	40	50	35
90	90	70	80	100	50	20	40	50	50	10	10	51
70	70	60	50	50	50	50	50	50	30	20	0	45
50	50	60	60	50	70	70	70	70	70	50	40	46
50	50	60	70	70	50	40	50	40	40	40	40	52
70	70	70	50	70	90	80	80	80	80	60	70	58
50	50	60	60	70	70	70	70	50	40	30	30	50
60	50	0	30	50	-30	30	40	30	10	40	20	29
-50	20	10	30	30	30	40	30	70	30	-10	-10	-
40	40	50	50	50	50	40	50	40	40	50	40	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
000201	30	30	20	20	40	40	50	[40]	50	40	-	50
000202	40	50	60	80	70	90	70	110	[80]	90	90	70
000203	30	20	30	40	40	40	50	[40]	40	40	40	40
000204	40	40	40	40	40	40	50	[60]	50	60	50	50
000205	30	40	40	40	40	40	[50]	60	70	60	50	40
000206	50	50	40	40	40	40	50	[50]	70	60	50	70
000207	90	70	60	60	50	30	70	-	120	110	120	100
000208	10	10	20	10	0	20	30	[30]	40	60	50	50
000209	30	30	40	30	20	-S	30	[40]	[40]	40	40	40
000210	40	40	40	40	40	40	40	[40]	50	50	50	50
000211	20	30	40	40	40	50	70	[110]	100	80	60	40
000212	50	50	50	40	40	50	50	[40]	50	60	60	50
000213	50	50	40	50	50	50	40	[40]	30	40	50	50
000214	40	40	30	40	50	50	50	-	[50]	40	50	40
000215	50	40	40	30	30	40	40	[30]	30	20	30	40
000216	70	70	50	40	40	40	40	[30]	30	30	40	50
000217	40	40	40	40	40	30	40	[40]	40	40	40	50
000218	50	40	40	40	40	50	50	[70]	50	50	50	40
000219	30	30	30	50	50	30	60	[70]	80	60	50	70
000220	OBS	30	60	70	90	60	60	[60]	70	60	50	40
000221	40	50	40	30	40	50	50	-	[50]	50	50	30
000222	50	50	40	40	50	40	50	[70]	70	60	60	50
000223	30	20	20	10	20	30	+S	[+S]	OBS	OBS	30	30
000224	60	50	30	50	40	60	60	[50]	40	40	40	30
000225	-30	0	10	10	40	50	60	[60]	60	50	50	50
000226	50	40	40	30	40	50	50	[50]	60	50	50	60
000227	60	50	40	40	40	40	50	[50]	50	50	50	50
000228	-20	-20	-30	-40	-30	-30	-20	-	-	-40	-20	30
000229	-10	0	-10	-20	-40	10	40	[70]	60	60	50	50

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50	60	60	60	70	80	70	70	90	70	70	60	53
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40	30	30	50	40	OBS	OBS	50	40	40	50	40	-
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50	50	70	60	50	50	60	70	70	70	90	100	58
110	120	130	120	140	120	80	50	30	10	30	20	80
50	50	50	50	50	50	20	-S	-S	-20	20	40	-
OBS	40	40	50	50	50	50	50	40	40	40	40	40
50	50	50	50	40	50	70	50	40	40	30	10	44
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-S	30	50	60	70	70	70	60	50	50	70	70	47
40	+S	+S	30	40	30	50	50	50	50	50	50	-
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60	70	60	70	50	60	70	100	90	80	70	50	58
50	60	50	50	40	40	50	30	20	20	0	-10	40
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40	40	40	30	20	30	-20	-60	-30	-10	10	20	15

Date	00	01	02	03	04	05	06	07	08	09	10	11
000301	20	10	0	0	-10	-30	-10	[20]	30	40	40	40
000302	-S	-10	-10	0	30	40	40	[40]	40	40	40	30
000303	30	30	30	30	20	30	40	[40]	40	50	50	50
000304	30	40	50	30	40	40	60	[70]	[60]	50	20	30
000305	10	-S	20	-30	OBS	OBS	OBS	OBS	OBS	-S	40	40
000306	50	40	50	50	30	40	30	-	-	40	50	50
000307	70	50	40	40	30	40	50	[70]	70	50	50	50
000308	20	20	10	10	20	40	40	[40]	50	20	10	10
000309	40	30	30	20	30	30	30	[40]	40	50	40	40
000310	OBS	50	OBS	OBS	OBS	OBS	OBS	[50]	50	50	50	50
000311	10	0	-10	-10	-10	10	+S	OBS	+S	-10	10	20
000312	30	30	30	20	30	30	-S	-S	[40]	50	50	70
000313	20	30	30	30	30	30	40	-	-	60	60	60
000314	30	30	40	40	40	40	40	[40]	40	40	30	20
000315	40	30	50	30	40	-30	20	[+S]	40	40	OBS	OBS
000316	0	-10	0	+S	+S	-100	OBS	[20]	40	OBS	OBS	OBS
000317	10	100	30	-110	-160	-50	-	OBS	+S	+S	OBS	OBS
000318	30	30	20	-10	20	30	40	[40]	40	40	50	50
000319	50	50	40	40	30	30	20	20	[30]	20	50	50
000320	50	40	40	40	40	40	40	-	-	40	40	50
000321	30	10	30	40	30	40	40	[40]	60	40	40	40
000322	40	50	40	40	50	50	50	[60]	50	50	50	50
000323	40	60	60	50	40	40	50	[70]	60	50	50	50
000324	50	50	40	30	30	30	50	[40]	70	70	70	80
000325	40	40	-10	0	-30	0	10	30	40	20	40	70
000326	30	40	120	150	90	120	130	120	50	50	60	60
000327	40	50	50	50	50	70	-	-	40	50	40	30
000328	OBS	20	30	30	40	40	[50]	40	30	-10	50	10
000329	30	20	30	40	40	40	[40]	40	50	50	50	50
000330	50	70	70	90	70	80	[60]	30	20	-10	-S	OBS
000331	50	50	50	50	50	50	[40]	20	0	10	10	0

12	13	14	15	16	17	18	19	20	21	22	23	Means
40	-10	20	30	30	20	-90	-110	-100	-S	-S	-S	-
50	40	40	50	30	50	50	60	40	50	40	40	36
50	50	50	50	40	30	40	30	30	40	40	30	38
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OBS	OBS	OBS	30	40	30	50	50	50	50	50	50	-
50	50	40	40	40	40	40	40	40	50	60	70	-
50	50	40	30	30	40	40	40	40	40	30	30	45
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-10	-50	30	40	40	50	50	50	40	OBS	20	50	32
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70	70	70	60	50	60	50	50	50	40	40	40	-
40	40	40	40	40	30	30	40	40	30	20	30	-
20	30	50	50	40	50	50	40	30	10	30	40	36
OBS	70	50	OBS	20	70	OBS	40	-20	30	20	0	-
OBS	OBS	OBS	50	50	60	70	70	50	40	50	40	-
80	80	OBS	+S	60	60	80	50	60	60	50	40	-
50	40	40	50	50	60	80	80	60	40	50	50	43
70	60	OBS	40	+S	40	OBS	OBS	50	0	60	60	-
50	50	50	50	50	70	70	70	60	50	50	50	-
50	80	60	70	60	60	50	50	50	50	50	40	46
70	80	80	80	70	50	40	30	30	40	40	40	51
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80	80	80	70	60	60	70	70	70	70	50	40	59
70	50	40	30	40	40	30	50	50	40	30	30	31
60	50	50	40	40	+S	OBS	10	40	50	50	50	-
-S	OBS	40	50	50	40	70	70	60	60	50	0	-
30	40	40	40	40	30	30	40	40	30	40	30	33
10	30	10	20	40	20	-10	OBS	OBS	OBS	OBS	40	-
OBS	OBS	OBS	+S	OBS	OBS	OBS	-10	OBS	70	+S	OBS	-
10	30	20	20	30	0	10	10	10	10	20	20	24

Date	00	01	02	03	04	05	06	07	08	09	10	11
000401	20	10	10	30	30	40	40	40	50	60	[60]	70
000402	110	60	70	80	50	40	40	[50]	50	50	50	50
000403	20	20	20	20	30	40	-	(40)	50	50	50	40
000404	40	30	30	20	0	-20	[0]	30	50	50	50	40
000405	40	30	30	OBS	OBS	-S	-S	-S	-	-S	70	40
000406	40	30	30	40	40	40	[40]	40	40	30	30	40
000407	30	30	40	40	50	50	[50]	40	40	40	40	50
000408	40	40	40	50	50	40	[40]	40	40	30	30	30
000409	20	10	20	10	10	20	30	30	10	20	[20]	30
000410	10	20	10	20	20	40	-	(30)	30	40	30	40
000411	30	20	20	20	20	30	[40]	40	30	50	50	40
000412	30	30	30	30	20	30	[30]	40	30	30	30	30
000413	10	30	20	30	20	30	[40]	40	30	30	30	30
000414	30	30	10	20	20	30	[50]	30	30	40	40	30
000415	30	30	30	30	30	[30]	40	60	50	30	30	30
000416	OBS	-S	OBS	OBS	10	30	30	[30]	30	30	30	40
000417	30	30	30	30	30	30	-	-	60	60	60	50
000418	40	40	30	30	10	30	[20]	30	30	40	50	50
000419	20	0	10	20	30	-	-	-	-	-	-	-
000420	10	0	-10	-10	-10	0	-	-	-	-	-	-
000421	10	10	-40	-30	20	30	[30]	30	50	60	80	70
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000423	40	60	30	20	20	[40]	[40]	40	30	40	50	50
000424	30	30	30	30	20	30	[40]	30	40	40	40	50
000425	OBS	OBS	OBS	-20	-10	10	-	-	10	-	10	10
000426	20	30	20	20	30	40	[30]	30	30	40	40	40
000427	20	20	30	30	30	(40)	20	[30]	30	40	40	40
000428	20	20	20	20	20	30	[20]	20	40	40	40	40
000429	10	20	20	30	30	30	[40]	40	30	40	40	40
000430	10	OBS	30	20	20	30	30	[40]	40	50	60	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
60	50	40	0	+S	OBS	OBS	+S	-S	-S	-S	-S	-
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40	40	50	40	40	40	40	50	50	50	40	50	35
50	50	-S	OBS	OBS	OBS	40	40	30	30	40	40	-
40	40	40	40	40	40	50	50	50	40	30	30	39
50	50	40	30	40	30	50	40	40	30	30	30	40
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40	40	40	30	30	30	40	30	30	40	40	30	34
30	30	30	40	30	20	-20	30	40	30	20	10	27
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-	-	-	-	40	40	30	20	30	20	10	10	-
-	-	-	70	60	50	40	30	20	30	0	0	-
70	80	80	70	80	80	40	40	40	40	30	30	42
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40	50	50	50	50	40	40	40	30	30	20	20	35
40	40	50	40	40	30	30	40	40	30	20	20	33
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OBS	OBS	OBS	OBS	+S	30	30	40	20	10	10	10	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
000501	20	20	10	10	10	30	[50]	40	40	40	-40	40
000502	10	40	20	30	40	-30	-	-	30	30	30	40
000503	20	20	20	10	20	40	[40]	50	50	50	50	50
000504	30	20	10	20	10	10	[20]	30	30	30	30	30
000505	10	20	10	10	20	30	[30]	[20]	20	20	30	30
000506	10	10	10	20	20	40	40	30	30	[30]	30	30
000507	10	10	10	20	20	30	[30]	40	40	40	40	40
000508	10	10	10	10	10	20	-	-	30	30	20	20
000509	10	20	10	30	40	30	[30]	40	40	30	50	50
000510	10	30	30	30	20	40	[40]	40	40	40	50	50
000511	10	10	10	10	10	40	[40]	40	50	50	60	50
000512	10	10	10	10	10	30	[40]	50	50	70	70	60
000513	40	40	40	40	40	50	[50]	50	50	60	50	60
000514	30	40	30	30	30	40	40	40	[40]	50	60	70
000515	30	20	20	20	20	40	-	-	50	60	50	50
000516	20	30	30	20	30	30	[30]	30	20	40	40	40
000517	10	10	10	10	20	30	[20]	[20]	20	30	40	40
000518	30	10	30	20	20	30	[30]	20	30	30	40	40
000519	20	10	10	10	+S	30	[0]	-40	-90	-50	OBS	OBS
000520	10	10	10	20	10	-S	OBS	OBS	+S	40	60	30
000521	10	10	10	10	10	20	[20]	20	30	30	30	30
000522	30	30	20	20	30	30	-	-	OBS	-50	30	OBS
000523	10	20	20	20	30	30	[30]	10	30	10	10	0
000524	10	10	10	10	20	30	[30]	30	20	20	30	30
000525	20	10	10	10	10	20	[20]	20	20	40	40	40
000526	20	40	40	30	40	40	40	[40]	40	40	50	50
000527	30	30	10	20	20	30	[30]	40	30	30	30	40
000528	40	40	30	30	30	40	[40]	30	30	40	40	40
000529	40	10	10	OBS	OBS	10	+S	+S	50	20	OBS	-40
000530	0	10	10	20	30	40	[70]	70	-	80	50	40
000531	30	0	30	20	30	20	[30]	0	20	OBS	OBS	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	50	-S	OBS	OBS	OBS	OBS	+S	50	40	30	60	-
40	50	0	40	40	40	40	40	40	30	20	20	-
50	50	50	40	40	40	30	30	30	30	40	30	37
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30	30	30	20	30	30	30	30	30	30	30	30	-
50	40	90	40	50	40	40	30	30	20	20	20	35
60	70	OBS	+S	90	40	20	30	30	20	10	20	-
60	60	60	40	30	30	20	20	20	10	10	10	31
70	60	50	50	+S	OBS	-S	50	40	30	30	30	-
60	70	70	70	50	60	50	40	40	30	20	20	48
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40	50	40	50	40	40	30	30	40	30	30	40	30
50	50	50	40	40	40	-10	10	10	30	40	20	29
+S	30	30	40	20	30	30	30	30	10	10	20	-
10	40	40	40	40	20	10	10	20	20	10	10	-
30	30	30	30	30	40	40	30	30	30	40	30	26
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80	-20	30	30	40	30	40	40	50	40	40	40	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
000601	60	40	50	60	60	60	[60]	60	70	60	60	60
000602	20	20	20	10	20	30	[30]	40	30	30	40	40
000603	30	30	20	20	30	30	[40]	30	40	40	40	50
000604	20	10	10	20	10	20	20	[20]	20	30	40	40
000605	20	10	10	10	10	20	-	-	30	40	50	60
000606	20	10	20	30	40	40	[40]	30	40	50	50	+S
000607	30	30	20	20	20	20	[40]	30	30	30	30	40
000608	20	10	20	10	20	30	[40]	50	50	50	40	40
000609	10	10	10	10	20	30	[30]	20	20	40	40	40
000610	30	20	30	20	30	40	[30]	20	20	40	40	50
000611	30	30	20	30	20	20	[30]	20	30	40	50	50
000612	10	10	10	20	30	30	[40]	-	30	40	40	50
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000614	10	10	20	20	-S	40	[70]	90	80	60	60	70
000615	OBS	30	20	20	30	40	[20]	40	30	40	40	-S
000616	20	20	20	20	20	30	40	[40]	40	40	30	30
000617	20	20	20	20	20	30	[30]	30	40	40	40	30
000618	30	20	30	20	20	30	[30]	40	30	40	40	40
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000623	20	10	20	20	30	[30]	30	40	40	40	40	40
000624	30	30	30	30	30	40	[30]	10	50	20	30	20
000625	-10	-10	10	20	-S	-S	-20	-30	20	20	30	40
000626	30	30	30	30	30	40	-	[30]	40	30	-S	-S
000627	30	20	20	20	30	[40]	40	40	40	40	40	50
000628	30	30	30	20	20	[30]	30	30	40	50	40	40
000629	30	20	20	20	20	[20]	30	30	30	40	40	40
000630	20	10	10	10	10	[30]	30	30	30	40	40	40

12	13	14	15	16	17	18	19	20	21	22	23	Means
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OBS	OBS	OBS	-S	-S	OBS	OBS	OBS	-10	10	20	30	-
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80	80	OBS	OBS	OBS	OBS	OBS	-S	0	0	10	10	-
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000703	10	10	10	10	-S	20	-	-	30	40	40	40
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000705	10	10	10	10	10	30	30	40	[10]	30	30	30
000706	30	10	10	-10	-S	20	[20]	40	40	30	40	30
000707	20	20	10	10	10	20	[30]	20	-S	-10	30	40
000708	-	-	-	-	-	-	70	70	170	90	OBS	OBS
000709	30	20	40	20	20	30	[40]	[50]	50	40	30	-10
000710	30	30	30	30	30	40	-	-	50	50	40	40
000711	30	30	30	30	-S	40	OBS	+S	30	50	20	40
000712	-	-	-	-	-	-	OBS	OBS	+S	+S	80	130
000713	40	40	40	40	30	30	[30]	30	30	30	30	20
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000716	30	30	30	30	30	40	[30]	[20]	40	40	40	30
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000718	30	30	30	30	40	40	[40]	40	40	OBS	OBS	OBS
000719	10	10	20	20	30	30	[70]	90	70	50	50	40
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OBS	30	20	20	30	40	30	30	30	40	20	20	-
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000807	30	30	30	30	40	50	-	-	30	30	30	40
000808	40	40	40	30	40	40	[10]	30	50	50	70	70
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+S	120	80	70	50	50	40	30	20	60	OBS	OBS	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
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001005	10	10	10	20	20	20	[20]	30	40	40	40	40
001006	10	10	10	10	10	20	[20]	20	20	20	20	20
001007	-S	-S	0	0	0	[-10]	-10	10	20	10	OBS	OBS
001008	20	20	0	-20	-S	OBS	OBS	-S	30	20	30	30
001009	10	10	10	10	0	10	-	-	-	20	20	20
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001012	30	20	10	20	20	20	[30]	30	40	40	40	40
001013	20	-10	-10	10	20	10	[40]	30	40	40	40	40
001014	30	10	10	30	30	30	40	30	10	(30)	40	40
001015	30	40	20	30	40	60	[90]	90	40	40	60	60
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001017	40	40	40	30	20	[20]	40	40	40	40	50	50
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001019	20	20	20	20	20	20	[30]	30	40	40	40	30
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40	40	40	40	40	50	50	70	70	50	40	40	30
10	20	30	30	30	20	-10	-10	-10	-10	0	10	-
40	40	40	40	40	50	50	50	40	30	20	20	26

Date	00	01	02	03	04	05	06	07	08	09	10	11
001101	-10	10	OBS	OBS	OBS	-10	0	30	20	30	40	40
001102	50	50	50	50	70	-	-	-	+S	30	20	30
001103	20	30	30	30	20	20	30	[40]	30	30	30	30
001104	10	10	0	-40	-20	-20	0	[30]	20	10	10	-10
001105	20	30	30	20	30	20	10	30	[40]	60	40	30
001106	30	30	30	30	20	20	10	10	-	[30]	30	30
001107	40	40	30	20	0	-10	+S	OBS	[10]	0	20	10
001108	40	30	30	30	30	40	30	20	[30]	40	40	40
001109	10	10	30	10	20	30	40	40	50	40	50	40
001110	40	40	30	40	30	20	20	[40]	70	70	70	40
001111	40	30	40	40	30	40	40	[40]	60	60	40	40
001112	10	10	0	0	-10	0	0	0	[-20]	10	30	40
001113	40	40	60	70	70	80	80	-	-	80	60	50
001114	10	20	10	20	20	20	40	[30]	40	50	50	40
001115	30	30	20	10	20	30	+S	[+S]	-10	20	30	30
001116	50	-20	10	0	0	10	70	[30]	10	10	10	30
001117	30	20	30	30	30	50	70	[80]	80	60	50	40
001118	OBS	OBS	OBS	OBS	OBS	[-10]	0	30	-40	-S	-S	0
001119	40	40	40	40	40	40	40	[40]	60	60	50	40
001120	20	20	20	20	10	40	40	[50]	-	40	50	50
001121	30	40	40	30	30	30	40	[70]	50	40	40	40
001122	40	30	20	10	30	40	40	[60]	60	40	30	30
001123	0	10	10	10	30	40	70	[80]	40	20	30	30
001124	20	30	30	30	30	40	[10]	30	40	40	40	40
001125	40	40	40	40	40	40	40	[40]	50	40	40	30
001126	30	20	30	20	30	30	40	OBS	50	60	50	-S
001127	60	60	40	40	40	40	60	-	[50]	40	40	50
001128	40	30	40	40	40	50	60	[60]	50	60	50	50
001129	40	40	40	50	50	50	70	70	[60]	60	50	60
001130	-10	10	20	30	30	70	50	[60]	90	70	60	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
70	50	60	50	50	50	50	50	50	50	50	50	-
30	10	-30	-10	0	-10	-30	0	0	-10	-10	0	-
30	30	30	40	30	30	30	40	40	30	10	10	29
-10	0	10	20	OBS	-S	20	-50	OBS	0	0	10	-
40	30	40	40	40	40	50	40	50	50	40	30	35
30	40	30	40	50	40	50	40	30	40	60	50	34
30	40	40	30	40	40	40	50	50	50	40	40	-
50	40	40	40	40	60	50	60	60	60	40	30	40
40	40	40	60	60	70	80	80	70	80	90	60	48
40	40	30	50	40	40	40	40	50	70	50	50	44
40	40	40	40	40	30	40	40	10	-10	0	-10	33
40	40	40	40	40	50	40	40	40	10	20	30	21
60	70	60	40	40	40	40	40	40	40	30	20	-
40	40	50	40	40	30	20	20	30	40	40	30	32
50	40	40	40	30	60	40	40	30	30	+S	40	-
30	40	30	50	40	0	40	40	30	40	40	30	26
40	40	60	70	60	80	80	60	40	20	40	OBS	52
-30	20	30	40	30	30	40	40	50	50	40	40	-
40	30	30	30	20	30	30	20	-10	30	20	-20	33
60	60	40	40	50	60	70	40	30	30	30	40	40
40	40	40	50	50	30	40	70	30	40	40	30	41
30	40	40	30	50	80	30	0	10	-10	-10	10	30
30	40	40	40	40	30	40	40	40	30	20	10	32
30	30	30	20	40	60	60	50	30	70	60	60	38
10	30	-40	20	40	40	20	10	10	10	10	10	27
OBS	40	80	100	80	70	80	100	90	80	70	60	-
40	40	50	50	60	70	70	70	60	40	50	40	50
50	50	50	50	50	50	50	40	30	40	40	30	46
50	60	50	50	60	70	70	50	30	20	20	10	49
60	50	60	60	70	80	80	80	80	90	70	50	57

Date	00	01	02	03	04	05	06	07	08	09	10	11
001201	60	70	120	90	120	110	120	[130]	70	30	30	20
001202	50	40	30	30	30	20	10	[10]	[20]	-10	-10	30
001203	10	30	30	40	30	30	[50]	60	30	20	20	30
001204	70	40	30	30	30	20	20	-	-	30	20	30
001205	30	30	20	30	20	30	[20]	10	30	20	30	40
001206	0	0	0	10	0	0	[0]	0	-10	-10	-10	-20
001207	10	10	10	10	0	0	10	[10]	10	20	30	20
001208	0	0	0	0	0	0	10	[30]	40	50	50	50
001209	50	50	40	50	60	50	[50]	[70]	70	40	50	50
001210	40	60	40	40	40	50	50	50	50	[40]	70	50
001211	10	10	20	+S	+S	-S	OBS	-	-	30	50	60
001212	30	40	50	50	40	50	70	70	[100]	110	70	80
001213	70	40	50	60	80	100	80	80	[40]	40	50	60
001214	30	30	40	30	40	40	30	[40]	50	50	70	70
001215	90	80	70	70	60	50	50	30	OBS	OBS	+S	OBS
001216	20	20	20	20	20	20	30	[40]	40	40	40	30
001217	20	20	20	20	20	20	30	30	[40]	40	50	40
001218	40	30	20	OBS	40	30	30	-	-	60	60	70
001219	50	50	40	50	50	60	50	70	[80]	[90]	60	80
001220	40	50	60	70	70	80	70	[70]	90	80	80	80
001221	30	30	10	-10	-10	10	10	[20]	20	10	10	20
001222	40	30	40	30	30	30	30	[40]	[40]	40	50	40
001223	10	0	-10	-10	-30	-50	-50	[-50]	-40	-30	-20	0
001224	60	60	60	60	50	40	80	[110]	110	100	90	70
001225	30	40	70	30	40	30	[40]	[40]	40	40	50	30
001226	60	60	40	40	-	-	-	-	-	-	-	-
001227	50	50	10	10	-	-	50	70	[40]	60	40	30
001228	50	40	50	60	70	60	-	-	-	-	-	-
001229	30	30	20	30	30	30	30	[30]	30	50	70	60
001230	+S	OBS	-	40	30	40	40	-	-	70	70	80
001231	40	30	40	40	20	30	30	[30]	[40]	50	50	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
10	30	40	40	30	0	20	20	20	0	20	30	51
20	30	[30]	50	40	30	20	30	20	70	40	10	27
40	40	30	30	50	50	70	30	50	30	20	70	37
10	-10	-10	30	20	0	0	30	10	-10	30	30	-
30	30	30	40	30	20	30	20	40	40	20	0	27
-20	-20	-10	-10	0	-10	0	0	0	0	0	10	-4
20	30	30	30	30	20	20	10	10	10	0	10	15
70	70	80	80	70	80	80	80	80	70	30	30	44
40	30	60	40	40	40	60	50	30	20	10	30	45
60	60	40	30	40	40	20	20	40	30	30	30	43
30	30	30	30	40	30	40	30	30	30	30	30	-
70	70	70	60	60	70	60	70	60	40	70	60	63
60	50	50	50	50	50	40	50	40	50	50	40	55
70	50	40	40	50	50	50	50	60	60	70	70	49
30	+S	50	40	40	50	50	40	40	30	30	30	-
30	40	40	30	40	30	40	40	40	30	30	20	31
40	40	50	70	70	80	70	60	OBS	40	70	50	43
50	60	70	80	100	50	60	70	70	60	60	50	-
50	40	40	130	160	80	40	30	30	30	40	30	60
70	70	70	70	80	90	90	80	60	60	50	60	70
10	20	30	40	40	50	60	60	50	50	40	40	27
50	50	60	60	70	30	10	20	10	20	10	10	35
10	20	30	-10	-20	0	20	20	30	30	30	70	-2
40	40	40	40	70	50	100	130	90	80	30	30	68
10	10	30	20	40	40	40	50	30	50	60	60	38
-	-	-	-	70	70	40	30	30	0	30	80	-
70	60	40	20	30	40	80	80	30	20	20	30	-
50	40	40	70	70	80	90	90	100	80	60	50	-
70	70	50	70	100	100	90	60	40	40	90	70	54
40	60	70	50	80	80	70	60	80	70	80	80	-
50	50	40	50	80	90	80	40	100	100	80	70	53

*Hourly means of the
2001*

Date	00	01	02	03	04	05	06	07	08	09	10	11
010101	80	50	50	40	30	50	30	-	60	70	60	70
010102	-30	-30	-20	-30	-40	-40	-30	-	-	10	0	20
010103	30	60	40	30	40	30	50	70	[70]	60	40	30
010104	80	70	40	50	70	80	80	[30]	10	-40	-40	-40
010105	20	10	60	70	80	80	80	70	110	80	80	30
010106	40	40	40	30	30	30	40	[40]	60	70	70	60
010107	30	40	40	20	10	20	20	[20]	20	20	20	20
010108	20	30	40	30	20	20	10	-	20	30	30	10
010109	10	-10	-10	-10	10	10	30	-	-	30	30	40
010110	50	50	40	40	40	50	70	[80]	70	70	80	90
010111	80	90	80	50	-10	30	70	[80]	80	30	40	50
010112	20	30	30	30	40	70	70	[60]	70	60	80	70
010113	50	60	70	60	50	40	40	[40]	50	50	60	60
010114	30	30	30	20	50	40	60	[30]	40	80	70	70
010115	60	70	50	50	60	60	60	-	-	70	7	70
010116	50	70	40	40	50	60	80	[70]	60	60	60	60
010117	0	-20	-20	-20	-30	-40	-10	[-10]	-30	-20	-10	-10
010118	-10	0	-10	-10	-10	-30	-20	[-30]	40	-50	-50	-40
010119	-30	30	30	10	-40	-70	-80	[-70]	-40	-30	-50	-80
010120	20	30	0	20	20	30	-10	0	20	10	[10]	-10
010121	40	20	30	20	-30	-30	0	[0]	30	20	20	30
010122	-40	-40	-50	-50	-50	-50	-50	-	-	-50	-60	-50
010123	-10	-20	-10	-20	-20	-20	-30	[-30]	-40	-30	-30	0
010124	-20	-30	-20	-30	-20	-20	-10	[0]	10	10	10	10
010125	-20	-20	-40	-10	-S	OBS	50	40	20	40	30	10
010126	-10	-20	0	30	30	40	70	[80]	80	50	70	80
010127	10	-20	-10	-10	0	10	20	0	10	30	40	60
010128	30	20	10	20	30	20	30	[40]	40	50	40	40
010129	2	10	10	20	30	40	50	-	-	60	40	40
010130	30	30	20	40	40	40	20	[20]	30	20	70	0
010131	30	10	10	20	30	20	10	0	10	10	20	30

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	Means
60	60	50	40	30	20	-20	-10	-30	-40	-50	-40	29
30	20	20	30	70	60	70	80	80	60	40	30	-
70	50	30	40	70	80	30	40	70	50	70	40	50
0	-10	-20	-30	-40	0	10	30	70	60	50	40	23
10	-10	-20	-10	10	20	40	50	40	40	40	40	43
70	70	60	70	110	90	90	100	80	80	90	70	64
20	30	20	30	40	40	40	50	60	40	40	30	30
10	20	20	-10	OBS	OBS	20	20	10	10	20	10	-
50	50	50	60	80	80	90	80	80	80	80	60	-
90	90	80	80	90	90	100	100	90	80	70	80	74
70	80	30	40	50	50	50	50	60	50	40	30	53
80	80	80	80	70	60	50	70	80	80	70	50	62
60	70	70	50	60	50	40	40	50	40	30	30	51
70	80	80	80	80	80	90	80	80	80	70	60	62
70	80	80	80	80	80	90	80	70	50	60	60	-
30	-10	-10	30	20	30	10	10	0	-10	-10	-10	33
-20	-20	-10	-10	0	0	0	0	-40	-10	-10	-10	-15
-40	-50	-30	10	30	30	30	0	-40	-10	-50	-50	-20
-40	-50	-20	-10	20	40	20	0	-10	-10	-10	10	-20
20	30	30	20	30	-10	0	-10	-10	-30	-30	20	8
30	40	30	40	40	30	30	40	20	10	10	-10	19
-60	-50	-60	-60	-50	-60	-60	-50	-20	-20	-30	-10	-
20	30	80	70	90	80	80	80	70	40	40	20	18
10	0	-10	-10	-20	-20	-20	-10	-20	-30	-20	-10	-11
10	30	20	20	-20	-	-20	10	-10	10	-20	30	-
80	70	60	70	70	80	60	90	130	120	80	20	60
50	50	20	70	40	10	-10	30	10	30	30	30	21
40	40	50	50	60	50	50	60	40	40	30	30	38
40	40	40	60	70	70	60	60	80	60	50	30	-
-10	0	-10	0	10	10	0	10	-10	0	10	10	16
30	40	0	0	-10	10	10	10	10	-20	-10	0	11

Date	00	01	02	03	04	05	06	07	08	09	10	11
010201	0	0	0	0	0	20	30	[30]	30	40	40	50
010202	20	10	20	30	30	30	30	[30]	OBS	-S	10	30
010203	20	-20	0	30	30	40	40	[40]	50	60	50	30
010204	50	40	30	60	60	40	40	[40]	70	60	70	30
010205	60	50	50	40	60	60	70	-	[70]	60	50	60
010206	30	30	30	40	40	40	70	[70]	90	90	7	70
010207	10	0	10	10	10	30	40	[40]	60	60	60	70
010208	40	40	30	40	50	30	30	[40]	40	40	40	40
010209	30	30	0	10	20	20	10	[20]	40	50	50	40
010210	0	20	30	30	20	30	30	[30]	40	40	40	40
010211	40	40	40	40	30	40	40	50	[60]	60	50	50
010212	50	30	40	70	70	70	80	-	[80]	100	80	70
010213	30	40	40	40	40	50	40	[40]	70	70	70	70
010214	30	20	20	20	30	30	30	[40]	40	40	40	70
010215	40	40	40	40	30	30	40	[40]	40	40	50	60
010216	50	40	30	50	50	60	50	[50]	70	70	60	80
010217	50	50	50	40	40	40	50	[40]	40	40	40	40
010218	20	30	30	40	30	30	10	[30]	30	0	20	40
010219	10	20	20	30	30	30	40	-	-	-	30	40
010220	10	10	10	10	10	20	30	[20]	20	20	-10	-S
010221	30	30	40	30	10	20	10	[20]	30	40	30	40
010222	OBS	OBS	20	20	20	20	20	[30]	20	30	30	30
010223	20	OBS	OBS	OBS	OBS	OBS	20	[30]	10	30	OBS	OBS
010224	70	50	50	40	40	30	40	[40]	60	60	50	60
010225	70	60	40	40	50	40	40	60	[60]	60	50	60
010226	30	30	30	40	30	30	50	-	-	70	50	70
010227	40	40	40	30	40	40	50	[50]	70	60	50	50
010228	0	10	0	0	0	-30	-30	[-30]	10	50	60	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
50	40	50	50	50	50	50	50	50	20	10	20	30
40	-S	50	40	40	50	50	60	60	50	30	10	-
40	40	0	0	30	30	30	40	40	40	50	40	31
30	50	30	50	30	30	30	60	60	60	40	50	46
50	40	40	OBS	60	30	0	0	10	10	20	30	42
70	60	50	60	50	50	40	40	30	-20	0	0	46
60	70	50	50	40	60	50	50	60	40	40	40	42
40	40	30	30	30	30	30	30	20	0	-10	-10	30
50	50	60	50	50	40	40	10	20	-20	10	0	28
40	40	50	50	50	60	60	70	60	50	50	40	40
50	60	50	50	40	50	60	40	30	30	30	40	45
50	50	40	40	40	50	50	40	30	30	40	30	54
70	70	70	30	30	40	40	40	50	50	40	40	49
70	70	60	70	70	50	40	40	30	30	30	20	41
70	60	50	30	30	40	40	70	70	50	40	50	45
90	90	60	50	50	60	40	40	40	80	70	50	58
30	30	30	20	10	30	40	30	20	10	-10	0	32
40	30	40	30	20	10	30	30	20	20	20	10	25
40	40	30	10	10	30	30	30	20	10	20	30	-
30	+S	-S	40	30	60	-40	40	90	40	20	30	-
50	50	40	40	40	40	40	40	30	40	30	OBS	33
30	30	40	40	40	40	40	40	30	30	20	20	-
OBS	+S	OBS	OBS	OBS	40	40	OBS	OBS	40	40	40	-
60	70	80	60	50	50	60	80	70	70	40	60	56
50	60	60	40	30	30	40	40	50	40	30	30	47
60	50	40	30	40	60	60	50	50	40	40	30	-
50	40	40	40	40	30	30	40	40	30	30	10	41
50	50	50	50	-20	-30	OBS	OBS	OBS	OBS	-S	-10	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
010301	-10	-10	-10	0	10	-20	-10	[0]	20	30	40	50
010302	80	170	70	-	-	70	30	[50]	4	50	50	60
010303	-S	-S	-S	-20	30	100	120	160	130	70	50	50
001034	40	60	50	40	20	10	10	[10]	10	30	50	50
010305	40	30	30	20	30	-10	20	-	-	40	40	40
010306	40	40	40	40	40	40	50	[50]	50	50	50	50
010307	40	40	20	30	20	10	20	[30]	40	50	50	50
010308	-10	-10	-10	-20	-30	-20	-30	[0]	0	10	30	40
010309	40	30	30	40	30	40	40	[40]	40	50	50	50
010310	30	0	0	20	-	-	-	-	-	40	40	50
010311	50	50	60	50	30	30	40	[40]	40	40	30	40
010312	40	30	30	30	30	30	20	[50]	-	50	60	60
010313	20	30	20	30	20	30	-10	[-20]	-S	-S	-S	-10
010314	30	30	30	20	30	30	40	50	[40]	40	30	40
010315	30	30	30	30	30	40	40	[40]	30	40	40	30
010316	-10	0	20	40	40	30	30	[40]	40	40	40	50
010317	30	30	40	20	10	20	20	[30]	50	50	50	40
010318	20	10	10	10	10	10	10	20	[30]	40	40	40
010319	30	30	20	30	40	30	40	[50]	-	60	50	+S
010320	30	30	40	40	40	40	50	[50]	60	60	50	50
010321	50	40	50	40	60	70	-	-	-	-	-	60
010322	40	20	30	30	60	30	20	10	20	20	+S	OBS
010323	OBS	OBS	0	30	30	30	40	[40]	[50]	50	50	50
010324	120	120	110	50	30	20	+S	[+S]	30	-20	40	60
010325	70	30	30	20	10	20	10	[50]	60	50	50	40
010326	-	-	-	-	-	50	-	-	30	40	70	60
010327	30	30	50	40	70	6	[60]	40	30	50	70	70
010328	50	30	30	30	30	40	[60]	[60]	60	50	50	40
010329	0	-10	10	20	-10	-10	-10	[10]	0	-10	-10	-20
010330	-30	-30	-30	-20	-10	20	[0]	10	30	30	40	40
010331	30	20	30	40	40	40	[60]	70	40	50	50	60

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40	40	40	40	40	40	40	40	50	30	30	30	36
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40	40	20	-10	30	30	40	30	30	40	40	-S	31
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OBS	-30	OBS	OBS	OBS	130	-S	50	40	40	40	30	-
50	50	40	30	30	30	50	60	50	40	30	40	43
50	50	30	40	70	60	70	30	20	20	30	60	-
-	+S	+S	30	OBS	70	80	90	100	100	140	120	-
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0	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	-	-	-
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010401	40	40	30	30	30	30	30	[70]	70	80	60	60
010402	20	30	30	30	20	30	-	-	40	50	50	50
010403	30	30	30	30	30	40	[40]	40	40	40	50	50
010404	10	20	30	20	20	30	[40]	30	40	40	50	50
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010406	30	20	20	20	30	30	[50]	50	40	40	40	40
010407	30	20	20	10	20	30	[30]	30	30	40	30	30
010408	-10	-S	-S	-S	-S	-S	OBS	-S	-S	-S	-	-30
010409	40	30	30	20	30	30	[30]	-	30	30	30	30
010410	40	30	40	30	40	40	[60]	[70]	70	70	70	80
010411	40	30	30	10	10	20	[10]	60	40	40	30	20
010412	30	20	20	20	20	20	[20]	20	20	30	20	30
010413	30	OBS	20	OBS	40	30	-S	OBS	40	40	40	70
010414	40	30	40	40	30	30	[40]	40	40	40	OBS	-S
010415	40	30	30	30	30	[30]	40	40	30	30	20	30
010416	40	40	30	30	40	[40]	[60]	40	40	50	40	40
010417	30	30	30	30	40	40	-	-	-	50	40	40
010418	40	30	30	30	30	40	40	[40]	40	40	40	30
010419	60	40	30	30	30	30	30	[40]	30	30	20	30
010420	20	30	30	30	OBS	20	30	[30]	[80]	110	70	30
010421	0	-10	-30	0	-30	10	10	[30]	[20]	50	50	30
010422	40	40	40	40	40	40	40	40	[40]	50	40	20
010423	30	40	40	30	30	40	40	[40]	-	40	50	40
010424	60	50	50	40	40	40	40	[40]	40	40	40	40
010425	40	30	20	20	30	30	40	[40]	30	40	40	40
010426	10	20	10	20	-S	-S	[30]	30	30	20	30	20
010427	30	30	30	20	20	20	30	[40]	30	20	10	20
010428	30	20	30	20	20	30	40	[30]	40	40	40	40
010429	20	20	20	10	10	10	20	30	[30]	30	40	30
010430	10	10	20	10	20	20	-	-	30	30	40	50

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80	80	60	50	40	40	50	60	40	40	40	40	53
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30	40	40	30	40	40	40	20	30	30	30	30	28
+S	-S	OBS	40	-S	-S	30	30	40	30	40	30	-
+S	90	-S	-S	OBS	40	40	60	50	50	40	40	-
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30	30	0	-10	OBS	OBS	OBS	OBS	OBS	OBS	OBS	10	-
30	30	30	40	40	40	40	40	40	50	60	20	40
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10	10	-20	10	20	20	10	30	40	40	30	30	29
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OBS	30	40	30	30	40	40	40	30	40	30	30	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
010501	20	20	20	10	10	20	20	[20]	30	30	40	40
010502	20	20	20	10	10	20	40	[30]	-	40	50	50
010503	20	10	10	10	10	10	30	40	[30]	30	30	40
010504	30	30	20	20	20	30	40	[30]	30	40	40	40
010505	OBS	+S	+S	40	20	10	10	[30]	[120]	40	30	30
010506	30	30	30	40	30	20	OBS	OBS	OBS	OBS	30	20
010507	-10	-10	-10	-10	0	10	0	-	-	10	10	20
010508	OBS	OBS	OBS	-20	-10	-10	-40	10	[30]	30	30	30
010509	30	30	30	30	30	30	30	[30]	30	20	10	30
010510	30	20	20	20	20	20	30	[30]	30	30	30	30
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010512	50	40	50	50	30	30	30	[30]	30	30	30	30
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010514	20	10	10	20	10	10	10	-	-	0	-10	10
010515	20	20	20	20	10	20	20	[20]	[20]	30	30	30
010516	30	20	20	10	0	0	30	[40]	40	40	40	40
010517	20	10	0	30	30	30	[40]	40	40	50	50	40
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010525	10	20	20	20	30	30	[40]	40	40	40	50	50
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010529	10	10	20	20	20	30	50	[40]	+S	40	40	40
010530	30	30	30	30	20	40	[40]	40	40	60	50	50
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40	50	50	-S	40	40	40	40	40	30	30	30	-
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40	40	40	40	40	40	40	40	40	30	30	30	35
40	30	30	OBS	OBS	OBS	-S	OBS	OBS	10	30	30	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
010601	30	30	30	30	40	40	[60]	40	40	30	0	-10
010602	30	30	20	20	20	20	[20]	30	30	20	40	30
010603	20	10	30	30	30	30	40	[40]	30	+S	OBS	-S
010604	10	20	20	20	30	30	[40]	40	40	30	40	30
010605	30	30	30	30	40	40	-	-	30	40	40	40
010606	10	10	10	20	30	30	[20]	20	20	30	40	40
010607	20	20	10	10	10	20	[40]	40	40	40	40	40
010608	20	20	10	10	10	20	[30]	30	30	30	40	30
010609	10	10	10	10	0	-10	[10]	10	20	20	30	10
010610	40	30	30	20	20	20	30	[30]	30	30	20	30
010611	+S	20	30	20	10	30	[20]	-	30	10	OBS	OBS
010612	20	10	20	30	20	30	30	40	[30]	-	30	30
010613	20	30	30	20	30	30	[30]	30	30	30	40	40
010614	20	30	20	20	20	20	[30]	30	30	40	40	30
010615	20	10	10	10	20	20	20	30	[30]	(40)	50	40
010616	20	10	10	20	10	30	[30]	20	30	30	40	40
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010618	20	10	10	10	20	40	[50]	-	40	30	30	30
010619	10	10	10	10	20	20	[30]	20	20	30	30	20
010620	10	0	0	0	20	0	0	[10]	10	90	0	0
010621	10	20	30	30	40	80	[80]	70	70	70	40	40
010622	10	10	30	OBS	-10	30	80	[40]	70	40	+S	OBS
010623	20	30	20	20	20	20	[30]	30	30	30	30	30
010624	30	30	30	20	30	30	30	[30]	30	30	30	30
010625	20	20	10	20	30	40	-	-	40	50	50	50
010626	30	30	40	20	30	40	[40]	40	40	40	50	50
010627	30	20	20	20	20	30	[30]	30	40	50	60	60
010628	30	20	20	10	20	20	[30]	30	40	40	40	40
010629	40	40	30	30	50	50	[40]	40	30	40	30	30
010630	20	20	20	20	20	[20]	[30]	20	30	40	40	50

12	13	14	15	16	17	18	19	20	21	22	23	Means
30	OBS	30	40	40	40	40	40	30	30	30	30	32
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OBS	OBS	+S	OBS	OBS	OBS	-S	30	20	-20	-10	10	-
20	20	20	10	20	30	40	40	40	40	40	30	29
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50	50	50	50	30	30	20	20	30	30	30	30	29
50	50	50	60	50	40	40	50	40	30	20	20	35
30	-S	OBS	30	+S	30	-S	+S	30	40	30	30	-
20	30	30	40	40	40	40	40	60	40	30	30	24
40	40	30	30	30	20	10	10	20	20	+S	20	26
OBS	10	10	80	10	10	10	20	20	10	10	10	-
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10	0	90	30	30	20	10	20	-S	OBS	10	10	-
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OBS	10	10	30	20	20	30	40	40	30	30	20	-
40	40	40	40	40	40	30	30	30	30	30	30	30
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70	80	80	80	70	50	40	40	40	30	20	30	43
40	+S	OBS	OBS	20	30	30	30	10	20	20	30	-
40	40	40	40	30	30	30	30	30	30	30	20	35
60	50	50	60	60	50	40	30	30	30	20	30	35

Date	00	01	02	03	04	05	06	07	08	09	10	11
010701	10	10	0	10	20	10	30	20	[30]	10	10	10
010702	20	30	20	10	20	20	-	-	30	40	40	40
010703	40	30	30	30	30	40	[40]	30	40	40	40	40
010704	OBS	30	30	0	10	20	[70]	80	50	80	40	30
010705	20	30	20	30	50	60	[50]	70	70	60	60	50
010706	30	30	30	40	40	40	30	[10]	10	30	30	30
010707	10	10	10	10	10	10	10	[10]	10	10	10	20
010708	-S	-S	10	10	10	10	[30]	40	40	40	40	40
010709	30	20	20	30	30	30	-	-	30	30	40	30
010710	20	20	20	10	20	30	[30]	30	30	40	40	40
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010712	0	-10	30	10	10	30	40	[40]	50	40	50	30
010713	40	40	40	40	20	30	40	[40]	40	40	40	40
010714	30	30	20	20	20	20	40	[30]	20	40	40	40
010715	30	30	40	40	40	40	50	[40]	[40]	40	40	40
010716	20	20	20	20	20	[30]	30	-	30	30	40	40
010717	10	10	10	10	10	30	OBS	OBS	OBS	-10	0	0
010718	10	10	20	20	20	40	[60]	60	50	50	50	50
010719	30	30	20	30	20	40	[70]	[90]	70	50	50	40
010720	30	30	[20]	20	20	110	120	100	60	70	40	40
010721	40	30	30	40	40	40	[20]	30	-20	30	40	30
010722	40	30	20	10	20	20	40	[40]	60	40	40	30
010723	30	20	20	20	+S	OBS	OBS	-	50	40	30	10
010724	40	30	20	30	+S	OBS	0	0	30	40	80	30
010725	30	30	30	30	30	30	30	[40]	40	40	40	40
010726	40	40	40	40	40	30	[40]	[30]	20	20	30	30
010727	30	20	20	10	20	[30]	50	40	40	[40]	40	40
010728	30	20	30	20	20	3	[40]	40	40	50	50	50
010729	20	10	10	10	10	30	30	-	40	50	60	50
010730	10	OBS	-S	30	30	20	20	-	40	40	50	50
010731	30	20	20	10	10	20	30	[40]	40	40	50	60

12	13	14	15	16	17	18	19	20	21	22	23	Means
20	30	20	30	30	30	30	30	30	20	30	30	21
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30	-S	OBS	OBS	20	20	30	30	30	20	30	40	-
60	60	70	70	60	60	60	40	30	30	20	30	48
40	40	40	40	30	40	40	40	30	20	20	10	31
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40	40	50	0	60	40	50	30	30	40	40	30	-
40	40	40	30	20	20	30	20	20	30	30	30	-
60	OBS	OBS	30	30	30	40	40	40	30	20	30	-
40	40	50	[50]	30	20	10	20	-10	OBS	OBS	+S	-
30	20	20	30	40	40	40	40	40	40	40	40	31
40	40	40	40	40	50	40	40	40	30	30	30	38
50	50	50	50	40	40	40	40	40	30	40	40	36
50	50	50	50	40	40	50	40	40	30	40	30	41
40	40	40	-S	OBS	50	OBS	OBS	OBS	-S	-S	0	-
20	20	30	40	30	30	30	30	30	30	20	20	-
50	50	50	50	50	-S	OBS	OBS	OBS	40	30	20	-
40	OBS	OBS	50	40	40	-S	OBS	OBS	OBS	30	0	-
OBS	OBS	OBS	50	40	30	10	20	20	30	40	30	-
20	10	20	20	60	20	OBS	30	OBS	10	40	50	-
20	10	20	40	50	40	50	40	50	60	40	30	35
30	30	10	20	10	30	50	50	40	40	50	40	-
30	40	30	40	40	40	40	40	50	40	40	30	-
50	30	40	40	40	50	50	40	40	40	40	40	38
40	40	40	40	20	OBS	OBS	30	40	30	30	40	-
40	40	40	40	50	50	50	40	50	40	30	30	37
50	50	50	50	50	50	40	30	30	40	30	20	38
50	60	50	60	50	50	50	50	30	20	20	10	36
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70	70	70	70	50	40	40	30	20	20	30	30	38

Date	00	01	02	03	04	05	06	07	08	09	10	11
010801	20	10	10	10	20	30	[30]	30	40	50	50	50
010802	40	30	30	30	30	30	[40]	40	40	30	30	30
010803	20	10	10	10	10	10	0	20	30	40	50	70
010804	40	30	30	30	30	30	[40]	40	40	40	50	50
010805	30	30	30	30	-40	10	20	[30]	40	40	40	40
010806	30	30	20	30	30	30	-	-	40	50	50	40
010807	10	10	10	20	20	30	[40]	[30]	40	40	40	50
010808	20	10	20	20	20	30	[40]	[30]	30	30	30	40
010809	30	30	20	20	20	10	[50]	70	60	50	50	60
010810	30	30	30	30	30	[30]	30	30	30	40	40	40
010811	OBS	30	40	50	40	[50]	50	50	50	40	50	40
010812	40	30	20	30	30	20	40	50	50	50	50	50
010813	30	20	20	20	20	20	-	-	40	30	40	40
010814	20	20	10	10	20	20	[30]	40	40	40	50	50
010815	10	10	10	30	30	30	[40]	40	40	40	40	40
010816	20	20	30	20	30	30	[30]	30	20	30	40	30
010817	20	10	10	10	20	20	20	[30]	30	30	40	50
010818	10	20	20	30	20	[10]	20	20	30	30	40	50
010819	10	20	20	20	20	20	20	20	[30]	30	40	40
010820	20	10	10	10	10	20	20	-	-	40	40	40
010821	+S	OBS	OBS	10	10	20	80	-	80	80	50	40
010822	30	20	20	20	10	10	[10]	20	30	40	40	40
010823	30	30	30	30	30	30	[30]	30	30	40	40	40
010824	+S	OBS	20	10	10	20	80	[130]	80	80	70	50
010825	10	10	10	10	20	30	[30]	40	40	50	50	60
010826	30	30	30	20	20	30	30	30	[30]	40	50	60
010827	20	30	30	30	30	20	-	-	30	30	30	40
010828	20	30	20	30	30	30	[30]	[40]	4	40	50	50
010829	20	20	10	20	20	30	40	[30]	40	30	30	40
010830	20	10	10	10	10	20	[40]	40	50	40	40	40
010831	30	20	20	20	20	30	[10]	10	0	-10	-20	0

12	13	14	15	16	17	18	19	20	21	22	23	Means
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30	40	40	50	40	40	40	40	30	30	20	20	34
70	70	50	50	40	40	40	40	40	40	50	50	36
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50	50	50	+S	30	50	40	40	40	30	30	20	33
40	40	40	30	30	-20	30	20	OBS	OBS	30	30	-
60	60	70	60	50	50	40	40	40	40	30	30	43
30	100	+S	+S	OBS	+S	OBS	OBS	OBS	OBS	OBS	+S	-
40	40	40	50	50	50	40	40	50	50	40	40	44
-	8	40	40	50	50	50	50	50	40	30	30	42
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40	40	40	40	40	40	40	40	40	30	30	30	-
40	50	50	40	40	40	30	40	30	40	40	40	32
50	50	50	60	60	-	OBS	OBS	-S	30	30	30	-
50	50	50	40	40	30	30	30	20	10	10	10	-
70	80	70	70	60	40	40	40	40	30	30	30	40
70	80	80	70	70	50	50	50	40	40	40	30	45
40	50	50	50	40	40	40	40	OBS	10	30	30	-
50	50	50	40	40	30	40	40	30	20	20	20	35
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30	40	40	30	40	40	40	40	30	30	40	30	32
0	+S	30	20	30	20	20	20	30	30	10	-S	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
010901	OBS	0	10	20	30	+S	[10]	50	50	40	50	50
010902	20	10	10	10	10	20	30	[20]	40	30	40	30
010903	30	30	20	20	20	-	-	-	40	40	30	30
010904	20	20	20	20	30	30	[30]	40	40	40	50	50
010905	-30	30	10	-10	-30	-60	[-30]	20	30	20	-30	-30
010906	-	-	-	-	-	-	-	-	-	-	-	-
010907	40	40	30	30	20	30	[30]	30	70	70	50	50
010908	40	40	40	30	40	50	[-20]	[10]	20	10	50	30
010909	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	70	80	50	30
010910	30	20	30	40	40	-	-	-	40	40	40	40
010911	40	40	40	20	30	40	[50]	40	40	40	40	30
010912	10	20	10	10	10	10	[20]	OBS	OBS	30	40	40
010913	20	20	20	10	20	30	[30]	40	40	70	50	50
010914	20	20	20	10	10	20	[20]	[20]	30	40	30	30
010915	-	-	40	30	20	30	40	[70]	40	80	80	40
010916	20	30	20	20	10	10	20	40	[20]	30	50	40
010917	30	40	30	20	10	-	20	30	30	40	40	40
010918	30	0	OBS	OBS	OBS	OBS	-	-	-	-	40	30
010919	40	30	40	30	40	40	[40]	40	30	40	40	40
010920	40	40	40	40	30	30	[30]	40	40	40	40	40
010921	30	30	30	20	30	30	[30]	40	40	50	50	50
010922	20	10	10	10	10	10	[20]	30	40	30	30	40
010923	20	20	20	20	20	20	20	30	40	20	30	-20
010924	10	-S	OBS	-10	10	-	20	60	70	(70)	(50)	50
010925	10	20	20	30	30	30	[40]	[40]	40	40	40	40
010926	0	20	30	40	40	50	[60]	60	40	20	10	10
010927	40	40	30	40	30	30	40	[40]	40	40	40	40
010928	40	40	30	30	30	40	[40]	50	50	50	60	60
010929	40	30	30	20	10	10	[10]	40	40	50	50	50
010930	50	50	40	50	50	70	70	40	[40]	40	40	50

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OBS	30	40	40	40	30	40	OBS	30	30	30	30	-
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50	40	-S	OBS	OBS	40	30	40	30	40	40	30	-
-30	-30	-30	-30	-10	-10	-20	-30	-20	-	-	-	-
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30	OBS	30	30	OBS	-S	30	30	40	30	30	30	-
40	40	40	30	40	30	-10	-S	-30	30	30	30	-
30	20	30	40	40	30	30	30	30	30	20	20	33
110	-10	OBS	OBS	-20	10	40	30	30	30	40	30	-
40	40	40	40	30	20	40	40	40	40	40	30	35
20	20	20	0	OBS	OBS	30	-	-	-	-	-	-
40	40	30	10	10	0	-10	10	30	40	40	40	-
40	40	40	30	40	30	40	30	40	40	40	40	32
-S	OBS	60	+S	-10	-40	-30	10	20	10	30	10	-
OBS	OBS	40	40	50	50	50	60	40	40	40	40	-
40	40	40	30	30	30	30	40	40	40	40	40	37
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0	-30	[60]	0	-10	-10	10	10	-20	0	-10	10	7
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40	40	40	40	40	30	50	50	50	50	40	30	37
10	10	20	30	40	40	40	40	40	40	40	40	32
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Date	00	01	02	03	04	05	06	07	08	09	10	11
011001	50	40	40	40	60	-	[50]	(20)	30	20	30	40
011002	30	40	40	30	30	40	[40]	50	40	40	50	60
011003	40	40	50	40	40	60	[40]	40	20	30	40	50
011004	20	10	10	10	20	30	[40]	[30]	30	40	30	20
011005	30	30	20	30	20	30	[40]	80	70	60	50	40
011006	40	40	30	80	100	80	80	40	40	40	40	50
011007	30	40	20	20	10	10	[0]	[-10]	0	-10	20	40
011008	40	30	20	20	30	-	(10)	(40)	50	40	40	40
011009	20	30	40	40	30	20	10	[40]	40	40	40	40
011010	40	0	40	30	30	20	30	[40]	30	30	30	40
011011	20	20	20	20	20	30	40	[70]	40	40	40	40
011012	30	20	20	20	20	30	[30]	[40]	30	40	50	50
011013	20	30	30	30	20	20	[30]	-	40	40	50	50
011014	30	30	30	50	80	90	130	[140]	90	80	20	30
011015	10	10	10	10	10	-	30	[40]	30	20	-	40
011016	20	40	30	30	40	40	[40]	[40]	40	50	50	40
011017	40	40	40	30	30	30	[20]	30	20	20	20	20
011018	10	20	20	10	10	-10	[-20]	[-10]	-30	-10	20	20
011019	30	50	80	60	60	40	30	30	40	40	40	70
011020	30	20	10	30	20	20	20	10	0	0	-10	-10
011021	-10	-10	-30	-20	10	30	[20]	30	10	10	30	30
011022	10	10	10	20	10	30	40	-	30	30	20	10
011023	20	30	30	20	20	20	20	-	40	40	40	50
011024	20	20	30	20	10	10	[20]	[30]	30	30	40	40
011025	-80	-30	20	40	50	60	60	60	30	20	30	20
011026	20	20	10	20	20	30	[30]	20	0	20	30	30
011027	10	0	-40	-10	20	30	[20]	30	20	20	30	30
011028	40	40	40	40	30	40	40	[20]	10	10	30	30
011029	110	130	60	80	60	40	-	-	10	20	20	-10
011030	70	40	30	30	40	40	40	[40]	30	-10	-10	-20
011031	0	0	0	10	10	20	20	30	40	[40]	30	40

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30	30	20	10	-10	0	10	20	0	10	30	30	20
40	30	30	30	30	30	40	40	30	30	30	30	37
50	50	[40]	40	30	40	40	40	40	30	30	20	46
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40	30	-10	OBS	+S	10	30	OBS	-S	-S	OBS	20	-
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-30	-30	-20	0	-10	-10	-10	-10	70	60	60	70	-
-20	-10	-10	-10	10	10	10	10	10	0	0	0	13
40	40	40	50	40	50	70	50	60	50	40	0	32

Date	00	01	02	03	04	05	06	07	08	09	10	11	
011101	0	10	20	10	10	10	20	[30]	40	40	40	40	
011102	40	30	30	20	30	40	40	[40]	40	40	40	40	
011103	40	40	40	40	40	40	40	[40]	40	40	40	40	
011104	30	40	30	30	30	40	70	[80]	30	0	-10	0	
011105	40	40	40	40	40	40	-	-	-	40	40	40	
011106	40	40	20	0	10	10	20	[30]	20	10	0	-20	
011107	30	40	40	30	20	10	20	[30]	[30]	20	30	50	
011108	20	10	10	10	10	10	10	[10]	[40]	40	0	0	
011109	OBS	OBS	OBS	OBS	OBS	OBS	OBS	20	30	[30]	40	40	40
011110	40	60	60	40	40	50	50	[50]	50	50	40	40	
011111	30	20	10	20	20	20	10	[-20]	-40	-40	-50	-30	
011112	10	20	10	20	30	30	-	-	-	-	0	20	
011113	40	40	30	30	20	30	40	[60]	40	40	30	10	
011114	40	40	40	40	50	60	60	[50]	60	60	50	50	
011115	40	40	40	40	40	40	50	[60]	[60]	60	70	80	
011116	60	50	50	40	40	40	40	70	[30]	20	30	30	
011117	30	30	30	30	30	30	30	40	[40]	[60]	60	60	
011118	0	10	20	20	20	30	60	[80]	40	20	30	20	
011119	10	10	20	10	10	20	-	-	-	-	40	40	
011120	20	20	10	OBS	10	20	20	[30]	[40]	40	40	40	
011121	30	30	30	30	30	30	30	[30]	30	30	40	40	
011122	30	20	20	20	20	10	20	[30]	40	40	40	30	
011123	10	OBS	10	OBS	OBS	20	20	OBS	40	60	50	30	
011124	30	30	30	20	20	30	30	[40]	30	30	30	40	
011125	40	40	40	3	40	40	40	40	[40]	50	50	50	
011126	40	50	50	40	40	40	50	-	-	30	20	30	
011127	-10	50	40	40	50	30	30	[40]	20	0	10	-10	
011128	20	30	20	30	50	40	100	[120]	[80]	40	50	20	
011129	40	40	30	30	20	30	50	[60]	50	40	40	40	
011130	-160	-S	-S	-S	-S	-80	-60	OBS	-20	30	10	40	

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-20	-30	-30	10	20	30	20	30	30	30	30	20	4
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20	0	0	-S	-S	-S	50	80	80	70	60	40	-
50	50	60	60	70	60	60	60	50	40	40	40	52
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Date	00	01	02	03	04	05	06	07	08	09	10	11
011201	30	30	30	30	20	40	40	40	[60]	60	50	60
011202	70	40	40	40	70	100	130	[130]	110	80	90	80
011203	50	40	40	40	60	40	-	40	30	30	[60]	-
011204	20	10	20	20	30	30	0	[30]	0	-20	-30	-40
011205	-40	-10	-30	-40	-30	-20	-10	[20]	40	0	0	50
011206	0	-30	-30	OBS	-S	OBS	OBS	OBS	OBS	-S	OBS	-10
011207	30	20	30	20	10	20	20	[10]	30	40	30	30
011208	60	70	50	40	50	50	70	[70]	80	70	70	60
011209	70	50	40	40	40	40	40	60	[60]	60	60	60
011210	60	60	70	60	70	70	-	60	-	60	70	70
011211	40	50	30	20	10	10	30	[20]	+S	80	40	40
011212	60	50	70	90	30	30	30	+S	OBS	OBS	90	90
011213	40	20	40	60	60	50	60	50	60	60	60	60
011214	0	10	10	20	10	10	20	[20]	30	30	30	40
011215	40	40	50	50	50	60	60	70	80	80	80	80
011216	30	10	20	20	20	10	0	-10	0	20	30	40
011217	50	50	50	60	60	60	-	-	50	50	50	40
011218	30	10	0	10	10	-20	-10	[-10]	[20]	30	30	40
011219	30	30	40	40	40	40	30	[40]	[30]	40	40	40
011220	40	40	30	30	30	30	40	[40]	[50]	40	50	40
011221	40	30	30	30	20	10	20	[40]	40	40	50	50
011222	40	40	0	30	20	40	40	[30]	40	50	50	50
011223	-30	OBS	OBS	30	40	40	40	[40]	50	60	60	40
011224	50	50	40	40	30	40	30	[50]	70	70	80	120
011225	70	50	40	0	-10	-10	-	30	30	40	40	50
011226	40	40	40	50	50	40	50	[50]	70	60	50	30
011227	50	60	40	40	30	30	40	[50]	-	50	50	50
011228	40	40	30	30	0	0	[-10]	10	20	30	20	30
011229	50	40	40	40	50	10	60	[70]	50	40	50	60
011230	30	40	40	50	50	40	40	40	40	[40]	40	50
011231	30	30	30	30	40	40	40	[50]	-	50	OBS	30

12	13	14	15	16	17	18	19	20	21	22	23	Means
80	80	90	80	120	100	90	100	90	90	80	80	65
80	70	60	50	80	60	80	70	80	30	30	40	71
60	80	70	40	70	60	40	40	20	30	30	30	-
-20	0	-20	-30	-10	-10	-20	-50	-50	-30	-50	-40	-11
70	40	40	80	150	130	60	20	0	10	10	0	23
-100	-50	30	30	50	70	120	100	120	+S	80	40	-
20	20	20	40	50	60	60	70	80	80	70	60	38
60	70	60	80	80	90	80	100	90	80	90	80	71
70	80	80	80	70	70	90	90	90	90	80	70	66
70	80	80	80	80	70	80	90	80	70	60	40	-
60	40	60	40	40	40	70	50	80	70	50	60	45
70	40	80	100	80	OBS	40	80	80	80	50	60	-
60	60	40	30	20	20	-20	-80	-50	-30	-10	-10	27
40	60	60	60	40	30	30	30	40	40	30	20	30
80	70	40	20	30	70	60	50	50	40	30	20	54
30	40	50	70	60	60	60	70	70	60	60	60	37
50	50	50	30	40	40	30	50	70	50	40	20	-
40	30	40	40	40	40	50	50	40	40	30	40	25
40	30	40	30	40	50	40	50	40	50	40	40	39
40	40	OBS	40	30	50	50	50	70	70	60	40	43
50	30	30	40	40	30	30	20	20	20	40	40	33
50	50	50	50	50	70	70	50	40	0	20	20	40
50	40	50	40	50	60	50	50	70	70	50	40	-
110	70	110	80	70	70	70	70	70	60	80	90	68
50	50	40	50	40	40	50	60	60	50	40	40	39
60	70	60	90	80	110	90	100	90	60	80	60	63
50	50	50	50	50	60	70	50	50	50	40	30	47
40	30	60	60	50	40	60	30	30	40	40	50	32
70	60	60	60	60	60	70	70	40	30	20	30	50
50	50	50	50	60	50	40	50	40	40	30	30	43
50	50	50	0	0	40	50	40	40	40	-30	-40	-

Hourly means of the quantities of positive and negative
1999

Month		00	01	02	03	04	05	06	07	08	09	10	11
9901	+	0	0	0	0	0	0	0	0	0	0	0	0
9901	-	0	0	0	0	0	0	0	0	0	0	0	0
9902	+	0	0	0	0	0	0	0	0	0	0	0	0
9902	-	0	0	0	0	0	0	0	0	0	0	0	0
9903	+	0	0	0	0	0	0	0	0	0	0	0	0
9903	-	0	0	0	0	0	0	0	0	0	0	0	0
9904	+	1	0	0	0	0	0	0	0	0	0	0	0
9904	-	0	0	0	0	0	0	0	0	0	0	0	0
9905	+	6	4	0	2	0	0	0	0	0	0	0	0
9905	-	3	5	0	0	0	0	0	0	0	0	0	0
9906	+	14	3	0	0	0	0	0	7	0	0	0	3
9906	-	9	0	0	0	0	0	0	0	0	0	0	0
9907	+	2	18	0	12	1	19	20	5	18	11	4	6
9907	-	26	22	0	11	4	18	7	4	23	2	2	10
9908	+	0	0	0	0	0	0	1	3	4	0	0	0
9908	-	0	0	0	0	0	0	0	3	4	0	0	0
9909	+	0	0	0	0	0	0	1	0	1	1	7	0
9909	-	0	0	0	0	0	0	0	0	1	0	9	2
9910	+	0	1	0	0	0	1	0	0	0	0	0	0
9910	-	0	0	0	0	0	0	0	0	0	0	0	0
9911	+	0	0	0	0	0	0	0	0	0	0	0	0
9911	-	0	0	0	0	0	0	0	0	0	0	0	0
9912	+	0	0	0	0	1	0	0	0	0	0	0	2
9912	-	0	0	0	0	1	0	0	0	0	0	0	0

charges transported by point-discharge for each month

12	13	14	15	16	17	18	19	20	21	22	23	Means
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	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	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0	0	0,1
0	10	0	0	0	0	0	0	0	0	0	0	0,4
0	0	0	0	0	0	0	1	0	1	5	6	1,0
6	0	0	0	8	0	0	1	1	0	2	6	1,3
1	26	6	11	14	13	18	13	6	12	1	22	7,1
2	1	39	26	36	10	43	16	9	6	28	6	9,6
8	1	0	24	4	11	9	4	0	0	8	9	8,1
8	1	1	12	7	9	19	18	2	1	10	13	9,6
0	7	8	5	0	16	8	0	7	15	4	4	3,4
0	3	7	0	3	30	10	0	5	15	5	5	3,8
0	0	1	7	8	5	9	0	1	4	0	1	1,9
0	0	1	9	6	8	0	0	6	1	0	0	1,8
0	0	0	0	0	0	0	0	0	1	0	0	0,1
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	0
0	0	4	1	1	0	0	0	1	0	0	0	0,4
0	3	5	3	0	0	0	0	2	0	0	0	0,6

Hourly means of the quantities of positive and negative
2000

Month		00	01	02	03	04	05	06	07	08	09	10	11
0001	+	0	0	0	1	0	0	0	0	1	1	0	12
0001	-	0	0	0	0	0	0	0	0	2	1	0	11
0002	+	2	0	0	0	0	0	0	1	5	0	0	0
0002	-	0	0	0	0	0	0	0	0	1	0	0	0
0003	+	1	0	1	6	4	3	13	2	4	0	5	8
0003	-	0	0	0	6	3	5	9	0	1	7	1	20
0004	+	1	8	9	6	0	0	0	0	0	0	0	0
0004	-	13	12	4	6	0	0	0	0	0	0	0	0
0005	+	0	0	0	1	0	0	4	4	2	3	7	5
0005	-	0	0	0	0	0	0	0	10	2	1	10	0
0006	+	1	0	0	0	0	0	0	0	0	0	0	2
0006	-	0	0	0	0	0	0	0	0	0	0	0	1
0007	+	0	0	0	0	0	5	48	0	3	1	1	13
0007	-	0	0	0	0	1	0	9	0	0	2	1	6
0008	+	1	0	0	0	0	0	0	0	3	7	6	3
0008	-	0	0	0	0	0	0	0	6	10	7	4	8
0009	+	0	0	0	0	0	0	0	0	0	0	0	0
0009	-	0	0	0	0	0	0	0	0	0	0	0	0
0010	+	0	0	0	0	0	0	0	0	0	0	0	0
0010	-	0	0	0	0	0	0	0	0	0	0	0	0
0011	+	1	3	16	12	1	0	1	0	0	0	0	0
0011	-	1	5	14	7	1	0	0	0	0	0	0	0
0012	+	0	0	0	0	0	0	0	0	0	0	1	0
0012	-	0	0	0	0	0	0	0	0	0	1	0	1

