

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).

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

*Hourly means of the
2002*

Date	00	01	02	03	04	05	06	07	08	09	10	11
020101	10	30	40	30	40	40	40	[40]	40	-20	30	40
020102	30	40	30	20	30	30	40	30	[0]	+S	+S	50
020103	40	40	40	30	30	40	[40]	-	50	50	50	50
020104	50	40	40	40	40	50	50	70	[70]	60	50	60
020105	60	50	50	50	60	50	70	[80]	[80]	80	70	70
020106	60	60	50	60	60	60	70	70	80	[90]	90	70
020107	30	40	40	20	40	40	40	-	[30]	30	50	50
020108	40	40	30	20	30	40	50	[50]	[80]	70	50	80
020109	40	30	40	30	40	40	50	[60]	50	50	60	80
020110	60	80	60	70	60	50	40	[30]	[40]	30	30	40
020111	-30	0	-10	-10	-20	20	0	[-10]	10	10	30	30
020112	60	50	30	30	40	30	30	40	[30]	30	40	30
020113	30	50	40	-10	20	40	40	[40]	30	-10	0	10
020114	10	20	10	10	10	30	20	-	-	30	20	20
020115	-20	0	0	-10	10	20	20	[30]	20	30	20	0
020116	-10	-10	20	30	-10	10	10	0	10	0	0	-20
020117	-20	-20	-10	0	0	0	10	0	10	10	20	30
020118	30	40	40	40	30	50	30	{40}	30	40	50	60
020119	40	30	40	30	30	10	-10	20	60	50	70	60
020120	70	80	40	40	50	50	70	60	60	60	70	60
020121	30	30	20	0	-50	-40	10	-	-	10	10	20
020122	90	100	90	100	110	80	60	40	-	-	-	-10
020123	0	20	20	20	30	30	70	80	[100]	130	120	70
020124	40	20	30	40	40	50	70	[60]	70	80	70	50
020125	50	40	30	30	40	40	40	[40]	-S	-S	OBS	30
020126	0	-10	-10	0	-10	0	10	[0]	+S	OBS	-S	30
020127	80	70	30	40	40	60	50	[50]	80	70	80	60
020128	10	10	-20	30	80	80	-	60	-	[30]	30	20
020129	10	20	20	20	20	20	30	[30]	30	40	40	50
020130	30	30	30	20	30	30	30	[30]	40	40	40	50
020131	40	40	40	30	30	40	20	[40]	60	60	50	50

potential gradient

12	13	14	15	16	17	18	19	-20	21	22	23	mean
40	40	50	50	50	60	60	60	50	40	40	30	39
30	50	50	50	40	OBS	OBS	10	50	50	40	40	-
50	50	50	60	60	60	80	100	80	70	80	70	55
70	70	80	90	80	60	70	70	70	70	70	50	61
70	70	70	60	60	60	50	50	80	80	80	70	65
70	80	70	70	70	70	80	80	60	50	40	30	66
60	70	80	90	80	100	80	70	80	80	80	60	58
70	80	80	70	60	60	70	70	60	40	40	40	55
70	90	90	80	60	80	90	100	80	80	80	70	64
70	70	60	30	30	40	20	0	-10	-10	-40	-30	34
50	10	30	40	40	40	30	10	30	30	30	60	18
30	30	50	40	40	80	70	20	30	20	20	80	40
10	20	40	30	20	30	50	40	50	30	30	10	27
30	30	40	40	40	50	40	40	20	10	0	0	-
-10	20	40	20	30	40	0	-20	0	-30	-10	-30	7
20	30	30	40	30	20	30	30	40	10	10	-10	13
30	30	30	40	50	40	30	30	20	40	40	30	18
50	40	40	40	40	30	30	30	20	40	50	40	39
80	80	90	80	80	100	80	110	130	90	80	80	63
60	50	50	50	50	70	50	60	40	80	40	40	54
0	-40	-60	-10	20	40	80	110	130	140	130	120	-
30	50	40	30	40	40	30	30	-10	-30	-20	-20	-
40	40	40	40	40	30	30	20	30	10	20	20	44
50	30	50	80	70	80	80	70	50	50	40	40	55
20	30	40	50	60	70	70	50	40	30	20	10	-
60	80	80	30	30	50	30	30	10	20	0	30	-
60	80	70	-S	-S	40	40	30	10	20	30	40	-
20	30	50	50	50	50	30	30	30	20	10	10	-
40	50	50	50	40	40	40	70	50	50	40	30	37
40	40	40	50	50	70	70	50	50	50	40	40	41
50	40	40	40	30	40	50	40	40	30	40	40	41

Date	00	01	02	03	04	05	06	07	08	09	10	11
020201	40	30	30	20	20	20	30	[30]	40	50	40	40
020202	40	40	40	40	40	30	30	[40]	50	50	50	50
020203	-20	10	-20	-10	0	-10	-60	-60	-20	[-10]	-60	-20
020204	-60	-80	-60	-80	-40	-10	-	-	-	40	60	40
020205	70	70	120	90	80	110	110	100	[90]	130	90	80
020206	20	10	10	20	40	40	70	[70]	70	(50)	40	50
020207	80	50	40	0	-10	0	10	20	[10]	-30	-70	-50
020208	30	20	10	20	10	20	20	[30]	-10	-40	40	50
020209	40	40	40	30	0	20	10	[-10]	10	40	40	50
020210	40	40	0	OBS	30	-10	0	(30)	40	40	30	30
020211	30	30	20	20	20	30	-	-	-	40	40	40
020212	30	30	30	30	30	30	20	[30]	40	50	60	50
020213	30	30	20	20	20	20	30	[30]	40	30	20	40
020214	10	20	10	10	0	10	20	[30]	30	40	40	40
020215	30	30	20	30	30	40	40	[40]	40	30	40	40
020216	40	50	50	50	40	40	40	[40]	60	40	40	40
020217	20	20	10	0	0	20	10	10	10	[20]	10	20
020218	40	50	100	110	-	+S	-	-	-	50	60	60
020219	30	30	30	30	30	40	40	[20]	[30]	40	40	40
020220	10	10	10	10	10	10	20	-	-	30	20	30
020221	-20	20	20	20	20	0	10	[30]	30	30	30	30
020222	30	30	30	30	10	20	30	[40]	40	30	40	30
020223	30	40	30	30	30	30	[30]	20	40	40	40	40
020224	OBS	-S	10	10	20	10	20	[30]	30	30	30	30
020225	30	30	30	20	30	30	-	-	-	-20	-10	20
020226	40	70	70	50	50	60	60	[40]	60	60	40	50
020227	20	20	10	20	30	30	30	[40]	40	60	50	40
020228	10	10	10	30	20	20	20	[20]	10	10	10	30

12	13	14	15	16	17	18	19	20	21	22	23	mean
40	40	40	40	40	40	40	40	40	40	40	40	36
60	60	50	50	50	50	40	40	-10	30	0	-40	37
0	-10	-10	-20	-30	-60	-10	0	-10	-20	-40	-70	-23
40	40	40	40	40	40	50	40	50	50	50	80	-
130	130	80	70	60	40	30	100	30	60	50	10	80
50	50	60	50	50	60	80	80	70	40	30	40	48
-30	30	70	70	40	40	30	20	20	20	20	30	17
60	60	60	40	40	40	50	50	40	30	30	40	31
40	40	40	40	20	20	30	30	20	-10	-10	40	25
40	40	40	40	40	40	40	40	30	30	40	30	-
40	40	40	20	40	50	50	50	40	40	40	30	-
40	40	40	50	50	40	30	30	30	30	30	30	36
40	30	30	40	30	30	20	10	OBS	10	-S	+S	-
50	50	50	60	50	40	40	40	40	50	40	40	34
40	40	50	40	50	50	60	70	70	60	50	40	43
40	40	40	40	40	40	30	40	30	30	20	10	39
20	40	30	30	20	0	OBS	OBS	-10	10	30	30	-
50	40	30	20	30	40	60	90	30	20	10	20	-
30	40	40	40	50	20	-10	-70	-40	20	20	10	23
40	40	40	40	30	30	30	40	30	30	10	-20	-
30	30	OBS	+S	20	30	20	20	30	30	30	30	-
30	30	40	30	30	40	20	20	20	-50	-50	10	22
30	0	-S	20	30	40	20	30	OBS	OBS	OBS	20	-
30	40	30	10	30	40	60	40	40	30	30	30	-
30	30	20	-60	-60	-50	-140	-50	-50	-30	-20	-10	-
60	50	50	40	40	40	40	40	50	40	30	30	49
40	50	40	40	30	40	40	40	20	10	0	0	31
OBS	30	70	30	20	-20	20	20	20	30	30	10	20

Date	00	01	02	03	04	05	06	07	08	09	10	11
020301	10	10	20	10	10	10	20	20	[20]	20	0	0
020302	10	10	10	20	30	30	10	[10]	20	0	0	-10
020303	10	30	10	10	20	10	20	[40]	30	30	30	50
020304	40	40	30	30	40	40	-	-	-	(40)	50	50
020305	20	10	10	20	20	30	+S	30	[30]	20	20	20
020306	70	50	40	40	30	40	40	[70]	40	30	40	30
020307	30	30	30	30	20	30	30	[40]	40	40	-	30
020308	-10	0	0	0	10	20	30	40	[40]	40	40	50
020309	30	30	30	30	30	20	30	30	[40]	40	40	40
020310	40	30	20	10	20	30	30	[10]	0	30	40	40
020311	30	30	30	20	30	30	-	[40]	-	50	40	50
020312	30	30	20	30	30	20	30	40	[30]	30	30	40
020313	20	10	10	20	10	10	10	[20]	30	30	40	40
020314	40	30	40	30	30	50	40	[60]	60	50	40	40
020315	20	20	-10	10	-10	-10	-10	[-10]	0	20	20	30
020316	0	20	20	20	0	-10	-10	[10]	20	30	40	50
020317	30	10	10	0	10	0	[-20]	-30	-10	0	20	20
020318	10	10	10	0	0	0	-	20	-	30	30	40
020319	20	20	30	30	40	40	40	[50]	50	50	50	50
020320	40	40	30	40	40	30	30	-	-	-	OBS	OBS
020321	120	50	40	30	-10	0	[-S]	OBS	50	OBS	OBS	OBS
020322	50	30	30	30	30	10	40	[40]	40	20	30	OBS
020323	40	40	30	OBS	50	50	40	[30]	30	30	50	OBS
020324	10	10	10	10	10	10	10	10	10	30	[40]	30
020325	10	10	10	20	20	20	-	-	[10]	20	20	20
020326	-10	-10	10	0	-10	10	30	[40]	30	40	40	40
020327	40	40	40	40	40	40	40	[60]	60	70	50	50
020328	30	10	10	10	10	20	30	[40]	50	60	70	70
020329	30	20	30	30	30	30	40	[50]	60	80	80	80
020330	40	30	40	50	40	40	30	[40]	[40]	40	40	40
020331	50	40	40	50	50	[60]	50	50	30	40	40	50

12	13	14	15	16	17	18	19	20	21	22	23	mean
0	30	30	40	40	40	40	40	30	30	20	20	21
10	-10	-10	-20	0	-10	30	40	20	10	10	20	10
-S	80	50	50	60	70	60	70	50	50	40	40	40
40	50	50	40	40	50	60	40	20	20	20	10	-
30	30	50	50	40	30	40	40	50	30	20	50	30
20	-S	20	30	40	40	40	50	50	40	40	40	40
30	50	50	30	20	20	10	30	30	-S	OBS	OBS	-
50	60	60	70	60	60	60	70	50	50	40	40	39
40	30	30	30	20	20	20	20	30	20	40	40	30
30	30	30	40	30	20	40	70	70	50	40	40	33
50	50	50	40	40	40	40	40	40	40	30	30	-
30	40	40	40	40	40	40	40	40	40	40	30	34
40	40	40	40	30	50	40	40	40	30	20	30	28
40	50	50	40	40	30	40	40	50	50	30	30	42
30	30	40	40	30	30	30	20	20	10	10	0	15
50	60	60	60	40	40	40	40	40	40	20	20	29
20	30	30	30	30	20	20	30	20	10	10	10	13
40	40	50	40	30	40	40	40	30	30	20	30	-
50	30	30	0	0	-20	50	50	50	50	60	50	36
OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	120	170	120	170	-
OBS	70	70	0	OBS	100	OBS	70	70	70	70	60	-
OBS	-S	OBS	OBS	OBS	10	-S	40	50	50	40	40	-
OBS	OBS	OBS	OBS	OBS	OBS	OBS	30	30	30	20	0	-
-10	40	30	OBS	30	40	40	40	40	40	30	10	23
10	10	0	10	0	0	0	-10	-10	-10	-10	-10	-
40	50	50	40	30	30	40	40	40	30	40	40	28
40	50	40	40	40	70	60	50	50	40	30	30	46
70	70	60	60	80	50	40	40	40	40	40	40	43
90	90	100	80	80	80	80	80	60	50	40	50	60
50	60	70	50	40	40	40	50	40	40	20	20	41
40	40	40	40	30	20	40	30	30	20	20	30	39

Date	00	01	02	03	04	05	06	07	08	09	10	11
020401	30	30	20	30	30	20	[20]	-	50	50	60	60
020402	30	30	30	20	20	10	[10]	-	20	30	40	40
020403	10	20	30	20	10	10	[20]	20	20	40	40	40
020404	30	30	30	30	20	20	[30]	40	40	40	40	40
020405	10	20	10	10	30	30	[40]	40	40	40	40	40
020406	40	30	30	20	20	30	[40]	40	40	40	40	40
020407	30	30	40	OBS	20	30	50	(40)	40	50	40	40
020408	20	20	20	20	20	-	30	[40]	40	40	40	40
020409	20	20	40	30	30	40	[40]	40	40	40	40	40
020410	40	40	40	30	30	30	[30]	-20	0	10	0	0
020411	50	20	10	0	20	-10	-20	10	30	20	40	30
020412	10	10	20	20	10	10	10	20	-50	-40	-30	-20
020413	-20	20	40	0	-30	-20	[-20]	30	0	-10	10	0
020414	30	30	40	50	30	40	50	OBS	OBS	OBS	-10	OBS
020415	20	10	0	10	0	-	10	20	10	20	10	40
020416	30	40	40	40	40	40	50	[40]	40	40	40	40
020417	30	40	30	30	30	30	[40]	30	20	40	OBS	OBS
020418	0	20	10	10	20	30	[30]	40	40	40	40	40
020419	10	0	10	0	0	0	[-10]	0	10	10	20	30
020420	30	30	20	10	20	[20]	0	10	30	20	20	40
020421	30	30	20	20	10	20	30	[30]	40	40	40	40
020422	30	30	40	40	40	-	30	-	30	40	40	40
020423	-10	0	0	-20	-10	0	[0]	40	40	40	50	50
020424	-S	30	OBS	30	70	70	20	40	50	30	-10	-S
020425	30	30	30	20	30	40	[40]	40	40	40	40	40
020426	20	20	20	20	30	30	[30]	30	40	30	40	30
020427	40	40	30	10	0	-10	[0]	20	40	0	20	30
020428	30	20	20	10	20	20	[30]	30	20	30	30	30
020429	20	10	10	10	10	-	+S	OBS	40	-	30	30
020430	10	20	10	20	30	40	[40]	30	40	40	40	30

12	13	14	15	16	17	18	19	20	21	22	23	mean
60	70	70	60	50	40	40	60	40	30	30	30	43
40	40	40	40	30	30	40	30	30	10	10	10	27
40	40	40	50	40	30	30	40	40	30	40	40	31
40	40	40	40	30	10	10	30	20	10	10	10	28
40	40	30	40	40	50	60	60	60	60	50	40	38
40	40	40	40	50	40	40	30	40	40	30	30	36
40	40	50	60	50	40	40	50	40	40	30	20	-
50	50	50	40	40	20	40	50	40	30	10	10	33
50	40	50	60	40	40	40	30	30	30	30	40	38
20	30	10	30	40	-10	-100	-80	40	30	30	30	13
20	0	10	-10	10	20	10	0	20	20	30	30	15
OBS	OBS	OBS	30	40	40	70	80	80	50	40	30	-
30	30	30	20	30	40	50	50	40	40	40	30	18
OBS	-80	20	40	50	40	30	40	40	40	40	30	-
40	50	30	50	50	40	40	40	40	40	40	30	28
40	40	50	40	40	40	40	40	40	40	40	40	40
-10	+S	OBS	OBS	-10	30	40	40	50	20	20	30	-
40	40	40	40	40	40	40	40	30	30	20	10	30
30	40	40	50	50	40	50	60	60	40	40	30	25
70	40	40	40	40	40	40	30	30	30	30	30	30
40	40	40	40	40	30	30	30	20	10	20	30	30
40	40	40	40	40	40	40	40	30	30	10	10	-
50	50	-S	OBS	OBS	30	40	40	30	30	30	20	-
OBS	0	20	10	30	20	40	40	40	40	30	30	-
40	40	40	40	40	40	40	40	30	30	20	20	35
0	OBS	30	40	40	30	10	20	20	20	10	30	26
40	30	40	40	40	40	40	40	40	40	30	30	28
30	20	30	30	30	20	20	30	30	30	10	10	24
30	40	30	20	10	10	10	OBS	OBS	OBS	20	20	-
30	30	30	30	30	30	40	30	30	30	20	20	29

Date	00	01	02	03	04	05	06	07	08	09	10	11
020501	30	10	10	20	30	40	[30]	10	10	20	40	30
020502	10	10	0	-10	-20	0	30	[30]	30	20	10	10
020503	10	20	10	10	20	20	[20]	20	30	40	30	30
020504	20	10	10	10	10	10	[30]	30	30	20	30	30
020505	20	10	OBS	0	+S	-10	-10	[0]	40	30	30	40
020506	OBS	OBS	0	-10	-10	-	-	-	20	40	30	40
020507	10	20	20	10	40	60	[90]	40	20	30	40	30
020508	10	10	10	10	20	30	[30]	30	40	40	30	30
020509	30	20	20	20	10	30	[20]	20	20	20	30	20
020510	20	20	10	10	20	10	[20]	20	30	40	40	40
020511	20	20	20	20	20	[20]	30	20	20	30	30	20
020512	20	20	10	20	20	20	30	[30]	30	40	40	40
020513	20	20	20	10	10	-	10	10	10	20	-	30
020514	10	10	10	10	10	20	[20]	20	30	30	40	-S
020515	30	20	20	20	30	30	[30]	30	30	30	30	30
020516	20	10	10	10	20	30	[30]	40	40	50	40	40
020517	10	0	10	10	20	20	[20]	30	40	40	40	40
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020526	OBS	OBS	OBS	-30	30	30	20	20	10	40	30	30
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OBS	-S	80	30	40	40	30	30	30	20	20	30	-
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020606	10	20	30	10	20	+S	[30]	[20]	30	40	40	30
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020608	30	20	0	0	-10	0	[10]	20	30	30	40	70
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020614	20	20	10	20	30	40	40	[30]	30	30	+S	20
020615	40	40	30	20	30	[30]	30	40	30	40	40	60
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020620	20	20	20	10	10	20	[20]	20	30	40	40	40
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020622	40	30	30	30	30	30	[40]	[30]	40	50	50	60
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020624	20	10	10	10	10	-	[30]	-	30	40	40	50
020625	30	30	30	40	40	40	40	[50]	40	40	30	40
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OBS	-10	0	10	30	30	40	40	40	30	30	20	-
80	50	50	40	40	30	40	20	30	OBS	OBS	30	-
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OBS	OBS	50	30	30	-S	40	30	20	10	10	20	-
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+S	OBS	+S	OBS	-S	OBS	10	20	10	10	30	20	-
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020705	20	10	10	10	10	20	[40]	40	40	40	40	40
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020714	30	30	30	40	50	40	40	[70]	40	40	40	40
020715	10	30	-30	OBS	70	-	70	-	[80]	80	60	60
020716	80	30	+S	OBS	30	80	OBS	70	80	50	50	30
020717	40	40	20	30	40	30	[40]	50	50	50	40	60
020718	30	40	30	30	20	30	[30]	30	30	20	30	40
020719	10	20	10	20	30	30	[30]	30	40	50	50	40
020720	40	30	30	30	20	30	40	[30]	30	40	30	40
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020722	40	30	10	10	30	-	-	70	70	30	20	20
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-S	OBS	OBS	OBS	OBS	OBS	OBS	30	40	40	40	40	-
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OBS	OBS	OBS	10	40	120	-S	OBS	40	40	40	40	-
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OBS	OBS	OBS	-S	30	10	10	10	10	10	0	0	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
020801	10	10	10	50	40	60	[70]	70	90	70	60	50
020802	30	30	30	20	20	30	30	[30]	40	40	40	40
020803	40	40	40	40	30	[40]	[40]	40	40	50	50	40
020804	30	30	30	30	30	30	40	[40]	90	OBS	OBS	OBS
020805	30	30	30	20	30	-	-	[80]	80	70	40	40
020806	30	20	20	20	20	30	[30]	40	40	50	60	60
020807	-20	-S	-80	20	0	-70	[-30]	[90]	+S	150	130	70
020808	20	10	10	-70	10	60	[120]	[80]	90	80	80	60
020809	30	20	20	20	20	30	[30]	30	40	40	50	50
020810	40	40	40	40	40	40	[40]	40	40	40	40	40
020811	40	30	30	30	30	40	[30]	[30]	70	30	30	40
020812	OBS	-20	OBS	-10	10	10	-	-	40	40	OBS	OBS
020813	20	20	10	10	10	30	[40]	40	90	-20	40	50
020814	30	30	20	20	30	30	[20]	30	40	30	30	30
020815	20	10	10	10	20	20	[20]	20	20	30	30	30
020816	30	-S	40	40	30	40	OBS	OBS	90	80	40	40
020817	30	20	20	20	10	20	[20]	20	30	40	50	50
020818	+S	20	10	10	10	20	60	[50]	70	50	40	50
020819	-	-	-	-	-	-	-	30	30	20	40	60
020820	10	10	10	10	10	10	[20]	[20]	20	30	40	40
020821	10	10	10	20	20	30	OBS	-S	OBS	10	30	40
020822	10	OBS	OBS	-20	10	-10	[-50]	30	100	110	240	170
020823	30	30	20	30	20	70	40	40	[40]	30	30	40
020824	30	20	20	20	30	40	[50]	40	40	50	60	50
020825	40	40	20	40	30	40	[40]	30	30	40	40	40
020826	30	30	30	30	40	-	20	-	30	20	30	30
020827	20	10	10	10	10	10	[20]	30	20	30	40	40
020828	20	20	20	30	30	40	[50]	40	40	40	40	40
020829	40	40	50	40	50	70	[50]	[40]	OBS	40	40	40
020830	40	40	30	40	40	40	50	60	60	60	60	50
020831	40	40	40	40	30	20	[30]	40	60	70	30	50

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50	+S	OBS	OBS	70	50	40	50	50	50	40	40	-
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-S	70	OBS	OBS	OBS	-S	OBS	40	40	30	70	+S	-
OBS	40	30	10	20	20	20	10	20	20	10	30	-
50	50	-S	OBS	30	40	40	40	30	40	40	30	-
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OBS	OBS	OBS	OBS	OBS	20	30	40	20	20	30	20	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
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020904	20	10	20	10	20	30	[30]	[30]	30	30	30	30
020905	30	20	10	20	20	10	20	[20]	30	30	80	OBS
020906	10	10	20	20	10	30	80	[80]	80	60	40	40
020907	40	30	30	30	30	30	[40]	40	40	40	50	50
020908	10	20	20	20	20	20	20	[30]	40	30	40	50
020909	40	40	30	30	30	-	-	30	30	30	30	40
020910	40	40	40	40	30	30	[40]	40	30	40	30	40
020911	40	30	50	70	40	50	[50]	50	40	40	30	30
020912	40	40	40	40	40	40	40	[40]	50	60	50	60
020913	40	30	30	30	30	30	(30)	30	30	30	40	40
020914	20	20	20	20	20	[20]	30	30	40	40	50	50
020915	20	20	20	20	0	30	30	[20]	40	40	30	-S
020916	50	40	30	40	40	-	-	-	50	40	40	40
020917	10	10	10	10	20	10	[20]	[40]	40	40	30	30
020918	10	20	10	10	10	10	[30]	[30]	40	40	40	40
020919	20	10	20	20	10	20	30	[40]	40	40	40	50
020920	40	30	30	30	20	10	-	30	-50	30	40	40
020921	50	50	50	40	30	40	[50]	[50]	50	60	50	50
020922	20	30	-20	-150	-100	-10	[-40]	30	40	40	40	30
020923	20	30	30	30	50	-	-	-	70	90	90	40
020924	20	10	40	70	120	130	110	90	110	70	50	70
020925	60	60	70	40	50	50	[70]	70	90	50	30	-S
020926	30	30	30	20	30	40	[40]	40	50	50	40	40
020927	20	20	10	10	20	20	[40]	30	10	10	20	10
020928	40	30	20	10	10	10	[30]	30	30	10	10	-20
020929	30	30	30	30	30	30	[40]	30	50	60	50	50
020930	30	40	20	20	20	20	30	-	50	50	50	60

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OBS	OBS	+S	30	40	30	30	40	40	40	20	40	50	-
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	40	60	50	40	40	30	40	30	20	20	20	10	35
	50	50	50	40	40	40	40	40	40	30	30	30	33
	40	40	40	40	40	40	30	30	30	30	30	40	-
	40	20	70	OBS	OBS	OBS	OBS	OBS	OBS	OBS	20	50	-
	30	20	30	20	20	10	30	40	40	40	40	40	37
	50	50	40	60	70	80	60	50	40	40	40	40	48
	40	40	40	40	40	40	40	50	40	40	40	30	37
	50	50	50	50	40	40	40	40	40	40	40	30	36
OBS	-S	+S	OBS	OBS		50	60	70	60	50	40	40	-
OBS	40	40	40	40	40	40	50	40	40	30	20	20	-
	30	30	20	10	40	30	30	30	20	20	10	10	23
	40	40	40	30	20	20	40	40	30	20	10	10	26
	50	50	50	50	40	30	40	40	40	40	20	30	34
	40	0	40	OBS	OBS	-S	40	50	40	30	60	40	-
	50	50	40	30	30	50	40	30	40	30	30	30	43
	0	30	30	40	30	30	40	40	40	30	30	20	11
	0	+S	-10	-S	-30	-60	-50	-S	-10	30	30	20	-
	70	100	80	70	50	60	60	20	40	40	40	60	66
-50	20	30	30	30	30	20	30	40	40	40	40	30	41
	20	30	40	40	30	40	40	40	30	10	20	20	33
	10	20	20	30	20	30	40	40	40	40	50	40	25
	0	-40	-20	-10	-20	10	40	40	50	40	40	40	16
	40	40	40	40	40	30	40	40	40	50	40	30	39
	60	60	60	70	40	40	40	40	40	40	30	40	41

Date	00	01	02	03	04	05	06	07	08	09	10	11
021001	40	30	20	20	20	30	[30]	40	50	70	50	50
021002	10	10	10	10	20	30	[40]	40	30	40	50	50
021003	10	10	10	20	10	20	[40]	50	50	40	40	40
021004	10	10	-S	OBS	OBS	-40	-	-	-	-	-	-
021005	30	20	10	20	20	30	[40]	70	70	40	40	30
021006	10	10	20	0	10	0	-20	-20	-50	20	20	20
021007	-50	10	10	0	10	-	[40]	-	40	40	40	40
021008	10	20	20	20	10	30	OBS	OBS	40	[20]	30	30
021009	40	40	40	30	40	30	[30]	30	20	30	30	20
021010	10	10	10	10	0	0	[0]	0	0	20	0	-20
021011	10	10	20	10	0	30	20	30	40	40	30	30
021012	-60	-80	0	30	-60	-80	[-60]	-40	20	-S	-S	OBS
021013	40	40	30	40	30	30	[40]	70	70	40	40	40
021014	30	30	30	30	30	-	[60]	-	40	40	40	40
021015	20	20	40	40	40	70	[80]	80	70	50	40	30
021016	20	40	30	30	40	40	[80]	100	80	50	60	50
021017	80	50	40	30	30	30	40	-	30	40	40	40
021018	OBS	OBS	OBS	-S	-70	-60	100	OBS	30	80	70	60
021019	50	40	40	40	40	0	30	[50]	50	50	50	40
021020	20	20	20	20	20	20	0	20	40	40	[50]	40
021021	50	50	40	40	40	60	50	-	0	-10	-10	20
021022	30	40	20	40	40	40	-	-	30	30	40	30
021023	110	100	130	120	90	110	120	[80]	70	30	40	40
021024	20	10	0	10	30	40	[50]	40	40	40	40	40
021025	10	10	-10	0	40	10	[10]	10	10	10	20	30
021026	10	30	40	20	20	20	[30]	40	40	30	30	20
021027	20	30	30	30	20	20	30	[40]	20	20	20	10
021028	-	-	-	-	-	-	-	-	-	[40]	40	40
021029	40	30	30	30	40	40	40	[60]	50	40	50	60
021030	30	40	40	50	60	40	40	[40]	40	40	70	30
021031	-50	-40	-20	10	10	50	40	[40]	30	20	0	-30

	12	13	14	15	16	17	18	19	20	21	22	23	mean
	50	40	40	40	30	30	40	50	40	30	20	20	37
	50	40	40	30	20	40	40	40	40	20	20	10	30
	40	40	40	40	30	30	30	30	30	30	10	20	30
	-	-	-	20	20	-10	-50	-30	30	30	40	40	-
	40	40	40	40	40	50	50	40	40	30	20	10	36
	10	10	20	30	40	40	40	50	40	30	20	-50	13
	40	40	40	40	40	40	40	50	40	30	30	20	-
	40	50	40	40	40	50	50	40	50	40	40	40	-
	30	20	20	30	20	10	10	10	10	10	10	20	24
	-10	-10	10	20	10	30	40	50	10	-10	0	0	8
	20	50	40	40	30	40	30	-40	30	30	40	40	26
OBS	40	40	100	80	80	50	70	80	60	50	40	40	-
	50	30	30	20	20	30	30	40	40	50	40	30	38
	40	50	60	60	60	60	40	40	30	20	10	20	-
	40	60	70	70	50	40	20	10	10	10	0	0	40
	60	50	40	60	60	70	70	80	30	100	120	100	63
	40	30	30	40	40	40	30	+S	+S	+S	OBS	OBS	-
	80	60	30	40	40	40	70	70	60	50	40	40	-
	40	40	40	40	30	40	40	40	30	30	30	20	38
	40	40	40	40	40	50	70	70	70	60	50	50	39
	40	40	50	40	40	40	50	70	60	50	40	40	39
	40	50	30	70	60	50	30	40	40	60	50	80	-
	40	50	50	30	20	30	20	0	+S	30	-50	10	55
	40	40	40	40	40	40	80	60	40	30	30	20	36
	30	20	20	10	10	0	0	-20	-30	-30	0	10	7
	40	40	40	40	40	50	40	40	40	40	30	20	33
	0	-10	-10	-10	-10	-10	10	40	40	-	-	-	-
	40	40	40	40	50	60	70	60	60	40	40	40	-
	60	50	50	50	80	120	80	40	30	60	40	40	50
	10	-20	-20	-30	10	30	40	50	90	60	0	10	31
	0	10	10	10	20	0	0	30	-30	-20	-10	-10	3

Date	00	01	02	03	04	05	06	07	08	09	10	11
021101	10	10	10	20	10	30	30	40	[60]	[90]	60	40
021102	10	10	10	10	10	10	10	[30]	10	-10	-30	-50
021103	60	60	70	80	80	70	70	[70]	60	40	40	40
021104	10	20	20	30	20	60	-	-	30	30	30	-60
021105	40	50	60	40	50	40	40	[30]	40	50	30	40
021106	70	70	70	70	70	50	40	[50]	40	60	50	60
021107	40	40	30	40	30	[30]	40	[30]	50	40	40	50
021108	30	40	40	30	20	10	30	[20]	-80	-70	0	20
021109	30	40	40	40	10	0	-10	[20]	20	-30	-90	-S
021110	20	OBS	30	40	30	30	40	[40]	40	40	40	40
021111	40	40	30	30	10	-	-	60	-10	30	40	40
021112	60	50	40	30	30	40	70	[70]	-	70	50	40
021113	30	10	40	50	80	80	90	[70]	80	80	70	60
021114	10	20	30	40	30	40	40	[40]	40	40	40	40
021115	10	10	10	20	10	20	20	[30]	40	40	40	30
021116	10	20	20	30	20	30	30	[30]	30	30	30	20
021117	-10	0	10	20	20	30	30	40	[40]	40	40	40
021118	50	40	20	-30	-30	OBS	-	-	70	50	40	40
021119	80	70	80	70	100	70	40	0	30	40	40	50
021120	40	40	40	30	30	30	30	[40]	-	40	40	40
021121	60	70	100	80	80	140	120	80	50	10	[20]	40
021122	30	40	30	30	30	30	40	[50]	[40]	40	30	30
021123	40	30	30	30	30	20	20	30	-	-	-	-
021124	-	-	-	-	-	-	-	-	-	50	70	50
021125	30	20	20	0	30	20	-	[40]	-	40	30	40
021126	10	-10	10	10	10	30	20	[40]	30	30	30	40
021127	40	40	40	40	40	70	80	[80]	60	30	10	10
021128	-10	10	20	30	30	20	30	0	-10	0	-10	-10
021129	-10	-20	-20	-20	-30	-40	-30	[-40]	-10	-20	20	0
021130	0	30	40	40	40	60	70	[80]	50	20	10	10

12	13	14	15	16	17	18	19	20	21	22	23	mean
30	30	30	0	0	-10	0	10	-10	-10	-10	0	20
10	40	40	30	40	0	80	120	90	70	80	70	29
10	0	0	10	-20	-10	-40	-30	-10	-10	-10	10	27
-70	-60	-90	-10	30	40	30	80	10	20	30	20	-
30	40	50	50	60	60	80	80	80	60	50	60	50
70	70	80	60	50	60	70	70	70	40	40	30	59
50	50	50	40	30	20	30	30	30	40	40	40	38
40	40	40	40	40	40	40	40	60	50	40	40	25
-100	-20	30	40	40	30	70	60	50	50	30	20	16
40	50	40	60	90	80	80	80	40	60	50	40	48
50	80	80	90	OBS	50	130	130	90	80	80	70	-
40	40	40	40	20	10	10	-20	20	0	10	20	34
50	40	40	60	80	80	80	60	130	170	170	0	71
40	40	40	40	40	50	60	50	40	40	30	20	38
40	40	40	40	40	40	40	30	30	20	10	10	28
20	-10	-10	0	-10	10	10	20	30	-10	-40	-10	13
40	50	60	30	20	20	10	30	30	40	-10	20	27
20	10	10	10	10	30	60	90	50	40	70	70	-
40	50	60	50	40	40	50	40	30	10	30	0	46
40	30	30	40	40	60	50	70	80	50	60	60	44
40	50	40	40	40	40	60	50	60	50	40	40	58
40	OBS	20	70	70	OBS	OBS	80	60	50	50	60	-
-	-	-	-	-	-	-	-	-	-	-	-	-
50	70	50	40	40	50	60	50	40	40	40	30	-
40	30	10	20	10	10	20	0	10	20	20	30	-
40	50	40	40	50	40	40	40	30	30	20	20	29
10	30	40	40	30	20	40	50	40	40	20	20	38
-10	-10	-10	-10	-20	-10	0	10	-20	-20	-20	-10	-1
10	0	30	30	40	80	30	0	30	-50	+S	30	0
20	20	20	30	30	40	40	40	50	50	40	40	36

Date	00	01	02	03	04	05	06	07	08	09	10	11
021201	40	30	30	20	10	10	30	[40]	-	30	30	40
021202	20	30	20	20	10	0	10	20	-	10	20	30
021203	40	40	30	20	30	10	20	-30	0	10	10	10
021204	-10	10	20	30	10	10	40	[30]	10	20	20	20
021205	0	-30	-20	-30	-50	-60	10	[0]	10	-30	-60	-50
021206	-20	-20	-30	-10	-20	20	-10	30	10	20	30	30
021207	-10	-20	0	-10	-10	-10	0	0	0	-20	20	10
021208	-60	-20	-40	-70	-50	-40	-50	-70	-30	-10	0	20
021209	20	10	30	10	20	20	-	[50]	-	60	70	40
021210	40	40	40	30	30	20	10	[10]	-20	-20	0	20
021211	-10	0	10	10	10	10	20	[30]	30	20	30	40
021212	20	-10	-20	-40	-30	-10	-20	[-40]	[-50]	-40	-50	-30
021213	-10	-10	0	-20	-20	20	-10	[-20]	-10	0	80	70
021214	20	10	-10	20	50	80	60	[30]	20	20	10	-10
021215	-40	-30	-30	-30	-20	-30	-20	-20	[-10]	-10	-10	-10
021216	40	40	40	40	60	40	-	10	10	10	20	20
021217	-20	-20	-30	-30	-20	-10	-20	[-20]	-10	30	30	50
021218	80	90	90	90	70	80	80	[40]	40	30	10	10
021219	10	10	10	10	10	30	40	[60]	50	50	60	70
021220	40	40	30	20	10	10	10	[30]	[10]	40	40	10
021221	80	30	40	40	-S	-S	30	[40]	30	40	70	50
021222	70	30	-20	-10	20	30	30	30	[70]	[10]	-10	30
021223	50	160	140	80	70	90	-	100	40	40	80	130
021224	40	30	-10	-10	-10	-20	-10	[-30]	0	40	30	10
021225	50	60	40	40	40	40	[40]	40	40	20	40	60
021226	-20	-20	-20	-20	-50	-70	-40	[-60]	-30	-30	-30	-40
021227	-50	-50	-50	-50	-50	-50	-50	[-50]	-60	-50	-40	-30
021228	10	20	30	60	80	90	80	[80]	100	100	70	70
021229	-30	-20	30	10	30	100	100	90	140	260	180	80
021230	30	0	0	20	40	40	-	-	+S	+S	-S	50
021231	10	10	10	0	-10	-10	-30	-20	-10	30	50	50

12	13	14	15	16	17	18	19	20	21	22	23	mean
30	40	40	40	50	60	40	50	40	30	30	10	34
20	30	30	-40	-70	0	-10	20	10	10	-10	30	7
10	20	10	10	-10	-10	0	20	20	0	-20	-40	8
20	30	30	40	30	20	20	20	10	20	30	10	20
-60	-40	-10	40	20	-40	-40	-30	20	0	-10	-10	-20
20	10	10	10	0	-30	-10	10	10	30	20	10	5
0	30	0	-10	-10	-20	-10	-20	-50	-50	-60	-70	-13
50	50	20	-40	-10	-70	-30	-70	-50	40	20	-10	-22
50	50	50	40	30	30	30	20	30	40	40	40	-
20	30	30	20	20	10	10	0	10	20	10	-10	15
40	50	40	40	50	40	30	10	-20	20	0	10	21
-20	-20	-30	-10	-30	-10	-50	-50	-50	-50	-50	-50	-31
50	30	30	30	20	0	0	-20	-20	-10	10	30	10
-10	10	0	-20	-20	-30	-20	-30	-40	-50	-40	-50	0
-20	-30	-20	-10	-10	-10	10	20	30	30	30	40	-11
-10	20	70	30	40	-10	-20	-10	-10	-10	-10	-20	17
110	80	120	150	130	160	140	110	110	110	130	90	57
30	30	40	20	20	40	50	80	70	70	70	30	53
80	80	80	70	70	90	80	80	90	70	50	70	55
0	0	40	70	80	80	90	130	130	80	50	0	43
70	80	120	130	90	110	70	40	80	110	80	50	-
70	60	30	30	20	0	-20	-30	-30	-20	0	30	18
160	200	190	180	150	160	180	140	100	80	40	20	112
40	30	40	30	40	40	30	40	40	40	40	50	22
50	40	50	40	40	70	70	40	20	20	10	10	40
-50	-60	-30	-60	-50	-50	-60	-50	-60	-70	-70	-60	-46
-40	-40	-30	-40	0	40	50	70	60	60	50	30	-15
80	80	70	20	30	30	-10	-10	20	10	-10	-20	45
60	50	60	50	80	90	80	80	80	70	50	30	73
+S	-20	40	-20	20	10	20	30	30	20	10	10	-
40	30	50	50	50	50	50	60	50	60	50	60	28

Hourly means of the
2003

Date	00	01	02	03	04	05	06	07	08	09	10	11
030101	50	70	70	50	70	60	70	[70]	60	50	50	50
030102	-10	0	-50	-20	-40	-20	0	[0]	-10	-10	0	30
030103	30	20	30	30	20	20	30	20	30	30	[40]	40
030104	10	20	-20	-10	20	30	40	[40]	60	60	40	40
030105	70	70	0	0	-50	-40	20	[30]	30	30	20	40
030106	10	10	30	30	30	20	-	[30]	-	20	30	30
030107	70	70	80	80	70	-30	-20	-50	[-70]	-170	-80	-80
030108	30	10	10	10	30	30	10	10	[30]	60	70	70
030109	40	40	30	30	20	40	40	[60]	80	90	80	60
030110	-S	-S	-S	-30	-S	-30	-10	-10	-10	-10	-10	-20
030111	-30	-40	-50	-20	-10	0	20	[30]	40	80	100	100
030112	10	20	20	40	30	30	40	[40]	30	40	60	60
030113	50	40	40	40	40	30	-	-	-	-	70	60
030114	0	20	50	-10	-40	-40	0	-10	20	30	50	30
030115	60	40	40	30	40	40	30	[30]	40	50	60	60
030116	80	60	110	120	110	130	150	[120]	140	130	80	30
030117	30	40	30	30	30	40	40	[40]	50	60	60	20
030118	30	20	20	-30	-10	30	0	10	20	20	30	40
030119	80	80	80	80	80	80	100	[80]	80	40	20	40
030120	0	20	20	40	50	60	-	-	20	60	70	40
030121	-30	-30	-30	-40	-40	-20	-40	[-50]	-40	-30	-50	-70
030122	-70	-60	-90	-60	-50	-40	[-70]	-10	0	-70	-60	-80
030123	180	190	190	170	+S	+S	80	[130]	130	100	130	100
030124	10	20	20	10	30	40	60	[60]	60	30	20	30
030125	40	40	40	40	40	40	30	[40]	30	40	40	40
030126	60	40	30	30	20	30	20	30	[40]	50	50	40
030127	40	40	30	30	20	30	30	-	[40]	-	50	50
030128	50	70	40	50	60	50	70	[60]	60	70	60	50
030129	40	30	30	30	30	30	40	[50]	50	40	30	40
030130	40	40	40	40	40	40	50	[60]	60	50	-S	-30
030131	60	50	50	60	70	50	40	[30]	50	60	40	40

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	mean
50	50	40	40	50	40	40	40	30	0	-10	0	45
30	-	10	20	30	-S	-10	OBS	30	40	40	40	-
40	40	40	40	40	50	70	70	70	60	40	10	38
40	40	40	70	70	50	40	50	40	30	20	30	35
40	30	40	40	30	40	40	50	50	40	40	40	29
30	40	30	30	40	20	10	10	30	30	30	80	-
0	-60	-110	70	40	-S	-S	50	40	50	-S	-20	-
80	90	80	60	60	60	70	70	50	70	70	50	49
50	60	60	50	10	0	10	20	0	-10	-60	-140	-28
-10	-20	-20	-20	-50	-50	-160	-170	-60	-60	-50	-50	-
80	70	70	80	80	80	80	70	60	40	20	30	41
60	70	80	80	90	80	90	80	90	70	80	60	56
60	40	20	10	10	0	10	10	20	90	70	30	-
30	80	130	100	70	70	40	50	50	50	50	40	36
70	70	80	50	40	30	10	20	50	80	70	80	49
30	80	70	80	60	70	60	40	40	30	40	40	79
30	50	80	50	60	50	40	30	30	30	10	20	40
0	10	70	70	80	80	130	70	50	90	80	90	42
70	30	0	70	30	30	80	70	20	30	30	30	55
80	80	80	70	30	10	10	-20	-20	-30	-20	-30	-
-50	-40	-40	-60	-120	-130	-60	-80	-50	-40	-110	-100	-56
-50	40	80	100	80	90	80	80	130	140	130	180	18
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10	30	40	20	30	40	50	50	70	70	60	50	38
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-S	-S	-S	-S	-S	50	70	100	80	70	70	70	-
40	-S	OBS	70	120	120	120	180	170	140	70	50	-
50	50	40	50	50	60	40	40	40	50	50	40	42
50	70	70	50	60	70	60	70	70	60	70	50	51
70	110	60	50	50	50	30	50	40	30	20	-20	48

Date	00	01	02	03	04	05	06	07	08	09	10	11
030201	-70	-20	-10	20	40	30	30	[30]	40	40	40	40
030202	50	50	50	50	70	40	40	[50]	60	70	50	50
030203	50	50	40	40	40	40	-	30	-	30	60	80
030204	20	-20	-10	-20	10	20	40	[40]	40	10	40	20
030205	40	30	10	10	0	-10	10	10	[30]	30	30	40
030206	-30	-40	-50	-50	-10	10	30	[30]	30	30	30	30
030207	-50	-50	-S	-S	-S	-20	10	[30]	40	50	40	50
030208	20	10	0	10	10	10	20	[40]	30	30	20	30
030209	30	30	10	20	10	30	40	40	[40]	40	40	40
030210	-40	-50	0	10	0	0	-	[20]	-	60	60	60
030211	-10	0	-10	-S	-20	-10	-10	[0]	10	20	20	10
030212	-10	-20	10	30	30	40	50	[60]	50	70	80	70
030213	30	40	50	40	50	40	60	[80]	80	80	70	70
030214	40	40	40	30	20	30	40	[50]	60	50	50	60
030215	40	40	40	40	40	60	60	[60]	50	50	50	60
030216	-30	-40	-50	-40	10	20	30	[20]	30	40	40	40
030217	40	50	30	10	20	10	-	-	-	60	70	60
030218	30	40	40	40	30	10	20	[40]	40	50	60	70
030219	20	30	30	30	20	40	40	[30]	-10	-60	-20	10
030220	40	50	30	40	20	20	0	[-10]	-10	20	30	30
030221	40	50	60	50	50	-10	10	[30]	10	20	30	40
030222	40	40	30	30	30	20	40	[40]	40	40	40	30
030223	20	20	30	20	20	30	30	[40]	30	30	40	50
030224	70	70	60	130	130	140	-	[130]	-	120	120	90
030225	70	70	80	80	90	110	130	[90]	80	70	40	30
030226	20	-10	-10	-10	-20	-30	-10	[-10]	-10	-10	10	30
030227	-70	-40	-70	-80	-30	-20	-40	[-30]	0	20	30	40
030228	50	40	30	30	50	50	50	[50]	70	60	50	60

12	13	14	15	16	17	18	19	20	21	22	23	mean
30	30	40	50	50	50	50	70	60	50	50	50	33
50	50	50	40	40	40	50	40	50	50	40	50	49
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20	30	50	60	60	50	60	60	50	40	40	30	33
40	40	40	40	40	40	30	10	-10	-10	0	20	27
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0	-10	20	30	40	10	-10	-10	-20	0	40	20	5
70	70	70	70	60	60	50	50	40	40	40	40	47
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60	60	60	70	40	-10	-10	-10	-10	0	-10	-40	33
30	40	60	60	60	50	40	70	70	40	40	40	28
70	70	60	60	80	60	70	60	50	40	40	40	-
80	90	80	80	80	80	80	50	30	10	0	20	48
30	50	50	60	60	70	60	70	60	60	60	40	35
30	50	40	50	50	70	70	40	50	50	40	30	35
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50	40	40	40	40	20	0	30	60	60	50	70	36
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50	50	40	40	60	40	70	70	80	90	80	70	55

Date	00	01	02	03	04	05	06	07	08	09	10	11
030301	60	80	50	40	30	40	50	[50]	70	80	80	80
030302	40	40	40	40	40	40	40	[40]	50	40	40	50
030303	-70	+S	30	30	30	-30	-	-10	-	-60	-10	-10
030304	50	60	60	60	50	70	70	[60]	50	40	30	30
030305	40	40	30	40	70	80	-	[80]	80	60	70	40
030306	30	30	10	10	20	30	60	60	[60]	60	60	70
030307	-10	-20	0	0	-10	-10	-10	[-10]	-20	-40	-20	-10
030308	-10	10	30	40	40	20	30	[40]	50	40	40	30
030309	30	20	10	10	20	10	20	[30]	20	30	20	30
030310	30	30	20	20	30	40	-	[40]	-	40	40	40
030311	10	30	30	30	20	10	30	[40]	40	40	40	40
030312	10	0	0	10	20	20	40	[40]	30	40	30	20
030313	30	30	20	20	+S	OBS	30	[40]	40	30	40	30
030314	0	0	10	10	-40	-50	-30	[-10]	0	10	10	10
030315	40	40	50	50	50	50	60	[60]	50	60	60	50
030316	60	50	50	40	50	30	40	[60]	40	40	30	40
030317	40	40	40	40	30	40	-	[50]	-	50	60	70
030318	40	30	30	30	40	40	40	[40]	40	40	40	40
030319	40	40	30	30	30	40	40	[40]	40	40	40	40
030320	30	50	30	30	30	40	40	[40]	40	40	50	50
030321	40	40	20	30	40	70	70	[70]	80	80	70	60
030322	40	40	40	40	40	40	40	[40]	40	30	40	40
030323	40	40	30	40	30	40	40	[50]	50	60	60	70
030324	50	-	-	-	-	-	-	-	-	50	70	70
030325	20	10	20	20	30	30	30	[40]	40	40	50	40
030326	40	40	40	40	30	30	40	40	[40]	40	50	40
030327	30	30	20	10	10	30	40	[40]	30	30	20	30
030328	10	20	20	20	20	20	30	[30]	40	40	40	40
030329	20	20	10	20	20	20	30	40	40	40	40	[40]
030330	20	20	30	20	20	20	[20]	10	10	30	30	40
030331	10	20	10	10	10	-	[20]	[40]	40	40	40	40

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80	70	80	70	80	80	70	30	40	40	30	30	59
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-10	30	40	40	40	40	40	40	30	30	30	40	-
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70	70	40	40	20	10	-10	-10	-10	-10	-10	-10	29
-10	-10	-10	-10	-10	10	30	40	30	20	20	10	-2
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10	0	0	0	-10	0	-50	-110	-50	20	20	30	-9
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40	40	40	40	40	50	50	50	50	60	50	50	45
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70	60	70	80	80	80	120	110	110	110	50	40	69
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Date	00	01	02	03	04	05	06	07	08	09	10	11
030401	30	30	20	20	30	40	(30)	[40]	30	30	30	30
030402	30	30	30	30	40	40	[40]	[30]	30	30	30	30
030403	-	-	-	-	-	-	0	10	20	30	30	40
030404	30	30	30	30	30	30	40	[40]	30	30	30	20
030405	30	30	30	20	10	30	40	30	[30]	30	40	30
030406	20	30	30	40	40	40	[50]	50	40	OBS	OBS	OBS
030407	40	30	30	-	-	-	-	-	30	30	+S	+S
030408	80	10	20	30	10	20	[30]	40	40	40	40	40
030409	30	30	30	10	20	30	[40]	30	30	30	40	40
030410	30	30	20	20	10	10	[30]	[20]	30	20	30	20
030411	20	40	30	10	30	40	[10]	30	30	-10	10	30
030412	40	30	30	40	30	30	[30]	40	40	30	30	30
030413	-10	0	20	20	30	30	[40]	40	40	50	50	50
030414	30	30	20	20	20	-	-	-	30	40	40	40
030415	20	30	20	20	20	30	40	[30]	20	30	40	40
030416	10	10	20	20	20	20	[40]	30	30	40	50	50
030417	30	30	20	20	20	30	30	[30]	40	30	40	40
030418	30	30	30	30	30	30	20	[20]	30	30	40	40
030419	OBS	OBS	30	20	10	10	[20]	30	40	40	40	40
030420	30	30	30	30	20	[20]	30	30	20	20	20	30
030421	20	30	30	30	30	30	30	[30]	30	30	20	20
030422	10	10	10	10	20	20	-	-	40	40	40	40
030423	10	10	20	10	10	10	10	[10]	10	-10	OBS	OBS
030424	20	30	20	30	30	40	[40]	20	20	30	30	20
030425	20	20	20	20	20	20	[40]	40	40	40	40	40
030426	10	10	10	10	10	20	20	[20]	20	20	20	20
030427	30	30	30	10	0	10	-10	0	[10]	20	30	0
030428	40	30	30	20	30	-	-	-	30	30	40	40
030429	30	40	40	30	30	40	40	[40]	40	40	40	40
030430	30	30	20	20	30	30	[30]	[30]	30	30	40	30

Date	00	01	02	03	04	05	06	07	08	09	10	11
030501	30	30	30	20	10	10	[20]	30	+S	+S	20	30
030502	30	20	20	20	10	30	[30]	[30]	40	40	50	40
030503	40	30	40	30	20	20	[20]	20	20	10	10	-20
030504	20	20	20	20	20	[30]	30	40	30	40	40	40
030505	30	30	30	30	40	-	20	-	30	30	40	40
030506	30	30	20	30	20	30	[40]	40	40	40	50	50
030507	20	20	10	10	20	30	[30]	30	30	40	40	40
030508	10	10	10	0	0	20	[20]	30	40	50	60	60
030509	10	20	10	10	10	10	30	[30]	30	40	40	40
030510	30	30	20	20	20	30	[20]	20	30	20	30	30
030511	+S	OBS	OBS	OBS	20	30	OBS	[40]	-10	-10	30	30
030512	20	30	20	20	20	-	[30]	-	30	30	40	+S
030513	OBS	-S	-10	10	10	10	30	[20]	30	20	10	10
030514	10	20	OBS	OBS	20	30	[10]	0	0	10	10	10
030515	10	10	0	0	0	10	[10]	20	20	20	20	30
030516	10	30	20	10	20	30	30	[40]	40	40	40	40
030517	20	20	10	20	20	10	[10]	10	10	10	10	10
030518	10	10	10	10	10	10	[10]	20	20	30	20	0
030519	20	20	10	20	20	-	[10]	-	-	30	30	30
030520	10	20	20	20	20	10	[10]	10	10	0	-20	30
030521	0	10	10	0	0	-20	30	[30]	30	10	0	0
030522	-10	-10	10	-20	-10	-10	-10	-10	-10	0	10	10
030523	20	10	10	0	10	20	30	30	[30]	40	50	40
030524	20	20	30	30	30	40	[30]	30	30	40	40	40
030525	20	20	20	10	10	30	30	[30]	20	30	30	40
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030527	10	20	OBS	OBS	40	40	[20]	10	10	20	30	40
030528	0	-10	0	10	-10	-10	-10	-10	0	10	20	30
030529	OBS	OBS	OBS	OBS	-	-20	[50]	120	30	30	40	40
030530	30	30	20	30	30	40	[40]	[30]	30	30	40	40
030531	10	10	10	20	20	30	30	[20]	10	20	30	40

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40	30	20	70	30	10	10	10	10	20	+S	+S	-
20	40	40	40	50	50	30	40	30	10	10	10	-
OBS	OBS	50	30	50	50	20	-S	-S	OBS	OBS	OBS	-
10	20	20	20	-S	-20	-S	10	0	10	20	10	-
10	10	0	0	0	10	20	30	20	30	10	10	-
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OBS	-S	OBS	-S	OBS	40	30	30	30	30	30	30	-
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-10	-10	30	-40	-50	30	10	-20	-20	-10	-10	-10	1
0	0	0	10	0	0	-20	-30	-30	-20	-40	-S	-1
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40	40	40	60	60	50	40	40	30	30	20	20	9
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40	40	50	40	40	30	30	20	10	10	10	10	26
40	20	30	30	10	-S	-S	-20	OBS	30	30	10	-
40	40	40	40	40	50	40	40	30	30	20	0	-
30	40	40	30	60	OBS	-S	30	20	0	0	OBS	-
40	50	60	70	30	10	20	20	30	20	20	20	-
50	50	50	40	40	40	30	30	30	20	30	20	34
40	40	40	30	40	30	30	20	10	OBS	10	-S	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
030601	OBS	OBS	OBS	30	30	30	80	70	50	40	30	OBS
030602	10	10	10	10	10	-	-	[60]	40	40	40	30
030603	10	10	10	20	20	30	[30]	30	40	40	40	40
030604	0	0	10	10	10	30	[30]	20	20	30	30	40
030605	30	20	20	10	10	20	[30]	[30]	30	30	30	40
030606	20	20	20	20	20	30	[30]	20	20	30	40	40
030607	40	30	30	30	30	20	[30]	40	40	50	60	50
030608	10	10	10	10	20	30	30	[30]	30	30	30	30
030609	10	10	10	10	10	-	-	10	0	10	20	30
030610	10	10	10	20	30	30	[40]	[40]	40	40	40	40
030611	20	20	20	20	20	30	[30]	[40]	30	70	80	70
030612	30	30	20	30	30	40	40	[40]	40	50	60	60
030613	10	OBS	OBS	30	10	30	[70]	80	60	50	40	40
030614	30	30	20	20	30	80	90	[80]	80	70	80	60
030615	-	-	-	-	-	-	-	80	70	70	70	60
030616	0	0	20	20	20	30	[40]	-	30	OBS	OBS	100
030617	20	10	20	20	20	30	30	[40]	60	40	40	40
030618	10	10	10	10	10	20	20	-40	0	10	OBS	OBS
030619	40	30	30	30	40	40	40	[40]	60	30	30	30
030620	30	30	20	20	30	20	[40]	30	40	40	30	20
030621	30	40	20	30	30	20	40	[40]	40	40	40	40
030622	40	40	30	20	20	30	40	[40]	40	40	40	40
030623	20	30	30	30	-	-	-	-	60	60	60	70
030624	30	20	10	OBS	30	10	[40]	20	20	30	OBS	OBS
030625	20	20	30	20	30	40	[40]	40	40	40	50	40
030626	30	40	40	30	30	40	[40]	40	40	50	60	60
030627	20	30	30	20	30	[20]	20	30	30	40	40	40
030628	10	10	0	0	10	20	[30]	30	40	50	50	50
030629	10	10	10	10	20	20	[30]	30	30	30	30	30
030630	30	30	20	20	30	-	20	30	30	40	40	40

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OBS	OBS	+S	20	40	10	10	10	0	20	10	10	-
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50	50	60	40	40	30	30	20	10	10	10	0	28
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70	80	90	80	60	20	20	30	20	30	30	30	42
50	60	70	80	40	40	30	20	10	10	10	10	38
50	80	80	OBS	OBS	OBS	OBS	OBS	10	30	10	30	-
70	80	80	80	70	60	40	40	40	30	OBS	-	-
30	30	40	40	30	30	20	20	0	0	-10	0	-
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-S	30	40	40	40	40	40	40	40	40	30	40	-
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40	40	60	60	60	70	70	60	40	40	40	40	43
40	60	60	80	80	70	60	40	40	30	20	20	43
80	80	80	90	80	+S	OBS	-S	OBS	20	30	30	-
80	60	60	70	30	OBS	30	30	30	20	20	20	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
030701	10	10	10	10	10	10	10	[10]	20	30	-	40
030702	20	10	10	10	30	30	50	80	70	[30]	30	20
030703	20	20	10	OBS	OBS	30	60	[70]	[40]	40	50	60
030704	30	40	40	40	40	40	40	[40]	40	30	30	110
030705	20	-20	30	30	50	80	[60]	[40]	40	30	30	30
030706	10	20	10	OBS	10	10	[30]	[30]	30	30	20	20
030707	30	20	20	30	30	-	50	[40]	40	-	[50]	40
030708	30	30	30	30	30	40	[50]	60	50	50	40	40
030709	20	10	10	10	10	20	[40]	[40]	40	50	40	40
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030714	30	30	20	20	20	-	40	-	50	40	50	40
030715	10	10	10	20	20	30	[30]	40	40	50	50	50
030716	20	20	20	20	30	30	[30]	20	20	30	30	40
030717	+S	OBS	-S	20	20	30	[20]	OBS	+S	70	130	80
030718	50	40	10	30	30	30	[40]	40	40	40	40	40
030719	40	40	40	40	40	40	[40]	[40]	40	40	40	40
030720	20	20	20	10	20	30	30	40	[40]	50	50	60
030721	20	20	10	10	20	-	-	-	20	30	40	40
030722	10	10	10	10	OBS	-S	[30]	90	80	90	80	70
030723	-S	OBS	OBS	+S	10	30	[30]	40	40	40	30	-20
030724	40	20	20	10	10	20	[30]	30	20	40	40	40
030725	-40	60	-S	OBS	OBS	+S	[30]	90	110	60	40	30
030726	20	10	10	20	30	30	[40]	40	40	60	70	70
030727	20	20	10	20	10	20	30	[30]	30	30	40	40
030728	40	40	30	30	30	-	-	-	20	20	30	30
030729	50	40	30	50	70	50	50	40	40	50	40	[40]
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030731	30	30	20	10	10	10	10	10	[20]	20	30	30

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60	70	-S	OBS	OBS	OBS	-S	30	40	30	10	20	-
OBS	OBS	OBS	30	10	10	10	-10	-10	30	30	20	-
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30	-S	-S	OBS	-40	10	10	+S	OBS	OBS	30	20	-
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70	70	80	90	40	30	30	30	30	+S	OBS	+S	-
-S	30	40	40	40	40	40	40	40	40	30	30	-
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70	80	70	80	60	40	40	40	30	20	20	20	42
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30	30	30	30	30	30	30	40	40	40	40	30	40
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30	30	40	OBS	OBS	10	50	40	-10	40	40	30	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
030801	30	20	20	20	OBS	50	[70]	70	70	50	50	40
030802	30	30	30	30	30	40	40	[40]	40	50	50	50
030803	10	10	10	10	10	20	30	[20]	30	40	40	50
030804	10	10	10	10	10	20	20	-	-	30	40	50
030805	20	20	10	10	30	70	[40]	[80]	80	70	80	70
030806	20	20	10	10	10	20	[30]	[30]	30	40	40	50
030807	20	30	20	20	30	30	[40]	50	60	60	70	60
030808	10	10	10	20	20	20	[30]	40	40	40	40	50
030809	10	20	20	10	20	30	[40]	40	40	50	60	50
030810	20	10	10	10	10	20	[20]	40	40	50	60	70
030811	20	10	10	20	20	30	-	-	70	60	40	40
030812	10	10	20	10	10	20	[30]	40	40	40	40	40
030813	20	10	10	10	10	10	[10]	[20]	30	20	30	40
030814	10	10	10	10	20	20	30	40	[40]	40	50	60
030815	10	+S	+S	20	20	20	[40]	30	40	OBS	OBS	90
030816	30	30	20	20	20	20	[20]	30	30	30	40	40
030817	20	20	30	30	20	30	30	30	[40]	40	40	40
030818	20	20	20	20	20	-	-	[40]	40	40	50	50
030819	30	20	30	20	10	30	[40]	40	40	30	20	30
030820	10	20	20	10	20	20	[30]	40	30	40	40	50
030821	20	20	20	10	20	10	20	[30]	30	30	40	70
030822	20	10	10	10	10	20	[20]	30	30	40	50	60
030823	30	30	30	30	30	30	[40]	40	40	40	50	40
030824	30	30	30	30	30	30	[30]	40	40	40	40	40
030825	10	10	20	10	20	-	-	-	40	40	50	40
030826	40	30	30	30	30	20	[30]	40	40	40	40	50
030827	20	10	10	10	10	10	[20]	20	20	20	30	40
030828	30	20	20	20	20	20	[20]	30	40	40	40	40
030829	30	30	20	10	10	20	[-50]	-20	-40	20	20	-S
030830	40	40	40	20	20	30	[40]	80	60	50	40	40
030831	40	20	20	20	0	20	OBS	-S	+S	OBS	OBS	OBS

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40	50	50	40	30	20	10	10	10	10	10	10	25
50	40	60	60	30	30	30	30	10	+S	10	10	25
+S	OBS	OBS	-S	30	40	30	30	30	30	30	20	-
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40	30	30	30	20	30	30	20	30	20	30	20	28
50	50	50	OBS	OBS	OBS	-S	30	30	30	30	30	-
70	60	60	60	30	+S	OBS	30	40	40	40	40	-
30	30	40	40	40	40	40	40	40	40	20	10	31
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30	30	40	30	40	40	40	30	30	30	30	30	31
-S	-S	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	-
40	40	40	40	50	OBS	OBS	OBS	OBS	+S	OBS	OBS	-
OBS	OBS	40	30	30	40	30	40	40	40	30	30	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
030901	30	30	20	20	20	-	-	80	70	60	50	40
030902	30	20	20	20	20	30	[30]	OBS	40	30	20	20
030903	20	10	10	10	20	20	30	[40]	40	50	40	40
030904	10	20	20	20	10	20	[20]	30	40	40	40	40
030905	10	20	10	10	20	20	[30]	40	-S	40	40	40
030906	10	10	10	10	10	[10]	20	20	20	30	40	40
030907	30	30	20	10	10	10	[10]	10	10	10	30	40
030908	30	30	30	20	30	-	-	40	30	30	30	40
030909	10	10	20	0	10	[10]	20	70	30	40	20	30
030910	30	40	20	0	-10	0	10	[10]	0	10	60	30
030911	20	20	20	20	30	30	[20]	40	40	50	20	30
030912	30	30	30	30	30	40	[40]	40	40	30	30	40
030913	30	20	20	10	20	20	20	30	30	20	10	30
030914	30	30	40	40	30	40	[40]	60	50	60	60	60
030915	40	30	40	40	40	-	40	50	40	40	40	40
030916	20	20	30	20	30	30	[40]	30	40	40	40	40
030917	20	30	30	30	[40]	30	30	30	40	40	40	50
030918	30	30	30	30	30	20	[30]	-	30	40	70	60
030919	20	20	30	30	30	30	[30]	30	30	30	40	40
030920	20	30	30	20	30	30	[40]	40	40	40	40	40
030921	30	40	30	20	20	30	40	[40]	40	40	40	40
030922	30	30	40	40	40	-	-	-	40	40	40	40
030923	30	30	30	20	30	30	[40]	[40]	40	40	40	40
030924	OBS	-10	0	OBS	20	50	[70]	70	60	40	30	20
030925	40	40	40	40	40	40	40	[40]	40	50	50	50
030926	20	10	10	20	20	20	40	[30]	40	30	40	40
030927	20	20	30	30	30	40	[40]	30	40	40	30	40
030928	30	20	10	10	10	30	[30]	30	30	30	30	30
030929	30	30	20	10	20	-	-	-	10	-70	-90	-70
030930	30	30	30	30	20	40	[40]	70	60	70	50	40

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40	40	30	30	40	30	30	30	30	40	30	30	26
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Date	00	01	02	03	04	05	06	07	08	09	10	11
031001	30	20	10	10	10	20	[30]	20	20	20	20	30
031002	30	40	40	40	40	40	[40]	40	40	40	40	40
031003	20	20	10	10	10	10	20	[30]	30	30	40	40
031004	20	20	0	30	40	[30]	0	OBS	OBS	80	130	40
031005	-S	-S	-S	-S	OBS	-S	70	-20	-S	40	30	10
031006	20	20	20	20	30	-	-	-	30	20	20	30
031007	30	40	30	30	30	30	[30]	20	30	30	20	10
031008	10	10	10	30	30	30	40	[40]	40	30	30	30
031009	-60	-S	-S	-10	10	30	[40]	30	40	10	OBS	OBS
031010	20	10	10	10	20	0	[-10]	[10]	10	20	40	40
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031012	30	30	30	30	30	30	[10]	20	30	40	40	30
031013	40	40	30	30	40	-	-	-	30	30	30	30
031014	20	20	20	20	30	30	[30]	40	40	40	40	40
031015	20	20	20	20	20	30	[30]	40	40	40	40	40
031016	30	30	20	20	30	30	[40]	30	40	30	20	30
031017	20	20	20	20	20	20	[30]	-	-	-	-	70
031018	30	30	10	10	10	0	-10	-10	0	10	20	30
031019	10	10	0	0	10	0	0	10	10	10	20	20
031020	0	-10	0	10	0	-	-	-	10	0	10	40
031021	40	40	40	40	30	30	[30]	50	30	40	40	20
031022	40	30	30	20	20	20	[10]	30	20	20	30	40
031023	30	30	30	30	30	30	[40]	40	40	40	40	40
031024	-	-	-	-	-	-	-	-	-	-	-	-
031025	40	40	30	30	30	30	[20]	[40]	40	40	50	50
031026	30	20	20	10	10	10	20	[30]	30	40	50	50
031027	40	40	40	30	30	30	-	-	[40]	40	40	30
031028	30	30	40	20	30	40	40	[50]	40	40	40	40
031029	-40	-60	-80	-60	-70	-60	-40	[-60]	-60	-60	-60	-40
031030	0	-10	0	0	0	10	20	20	30	20	30	40
031031	10	20	30	30	40	30	40	[20]	30	40	40	40

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20	OBS	-10	30	30	20	0	+S	30	20	30	20	-
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20	30	30	40	30	30	40	40	40	-S	OBS	0	-
40	30	30	40	30	40	40	40	40	30	20	-10	29
OBS	OBS	OBS	40	40	10	40	40	40	40	40	30	-
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OBS	-S	30	40	40	40	40	40	30	30	40	30	-
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-	-	-	30	40	40	40	40	40	50	40	40	-
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-40	-30	-30	-20	-10	-20	-30	-40	-30	-20	0	10	-40
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Date	00	01	02	03	04	05	06	07	08	09	10	11
031101	30	20	(20)	-	-	-10	10	10	20	10	0	10
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031103	10	20	10	20	30	70	-	-	-	50	40	40
031104	10	30	10	10	10	10	30	[30]	40	40	40	30
031105	10	10	10	10	10	20	[20]	40	50	50	60	70
031106	30	20	20	20	10	10	-10	[10]	40	40	40	40
031107	60	60	40	30	30	30	OBS	20	0	10	-90	0
031108	40	30	40	30	40	40	60	70	[50]	40	40	30
031109	10	20	20	30	10	30	40	[40]	30	10	10	20
031110	20	40	80	80	70	60	-	[20]	40	60	50	40
031111	30	30	40	40	40	70	50	50	[50]	-	-	70
031112	40	50	40	40	40	40	30	[50]	40	30	30	40
031113	20	20	20	10	10	10	10	[10]	30	30	40	40
031114	40	40	40	30	20	30	30	[30]	20	-S	0	10
031115	40	40	40	30	30	40	30	[30]	10	0	10	30
031116	-10	-20	-20	-10	-40	-30	-60	-20	[20]	30	40	50
031117	30	30	30	50	50	30	-	[30]	-20	30	10	20
031118	30	40	30	30	40	30	40	[30]	-	40	40	40
031119	40	30	20	20	30	30	30	40	40	70	70	40
031120	80	60	40	40	40	30	30	[30]	[40]	60	60	40
031121	80	100	110	110	140	130	120	[130]	110	140	100	100
031122	0	-10	0	10	10	10	10	[20]	30	20	30	30
031123	130	100	100	90	90	90	90	90	[90]	60	40	30
031124	80	90	80	80	70	40	-	[70]	80	80	70	40
031125	30	30	20	30	40	[30]	30	40	40	40	40	70
031126	130	90	90	90	80	[80]	70	90	70	30	30	40
031127	10	10	10	10	-10	-10	-10	0	0	10	30	30
031128	30	30	30	40	40	[60]	40	60	70	60	60	70
031129	10	10	10	10	10	10	20	[10]	10	30	40	40
031130	30	10	30	30	20	20	30	30	[60]	40	20	30

12	13	14	15	16	17	18	19	20	21	22	23	mean
10	20	10	10	30	30	30	30	40	0	-10	-10	-
40	40	30	40	40	40	40	40	30	20	10	20	-
40	50	50	30	20	20	40	40	30	40	30	10	-
30	40	30	40	50	50	60	50	40	30	20	10	31
60	60	40	30	40	40	40	30	30	30	40	40	35
40	40	40	40	30	-10	OBS	-S	10	20	30	40	-
0	10	-10	30	30	40	40	40	30	50	50	40	23
40	40	40	40	40	40	50	40	30	40	40	20	40
10	30	30	40	40	30	40	40	40	40	40	30	28
40	50	40	40	40	30	10	30	40	40	40	30	43
60	40	40	40	50	40	40	40	50	50	40	40	-
40	50	40	50	50	50	40	30	30	30	30	30	39
40	50	50	40	50	70	50	50	70	60	50	40	36
20	20	10	20	20	30	10	40	40	40	30	40	27
40	70	70	60	60	50	40	30	10	0	10	-10	32
70	80	80	90	80	30	20	30	20	-10	-50	-10	15
20	30	40	50	40	40	50	40	50	40	40	30	33
40	40	40	30	30	30	30	40	40	30	30	60	36
40	[40]	80	60	80	90	100	110	120	100	90	80	60
40	40	40	40	40	40	40	60	40	40	40	40	44
90	90	90	90	60	90	40	80	30	30	30	10	88
40	40	30	60	40	30	70	130	90	60	100	130	41
40	40	40	30	40	70	80	90	90	90	90	60	73
40	60	90	80	90	110	60	30	20	0	10	30	61
90	60	40	40	60	90	140	90	120	110	140	100	63
40	30	40	30	30	40	40	30	0	10	20	10	50
30	30	30	30	30	30	30	30	30	10	10	10	16
40	60	40	30	30	40	30	10	OBS	40	20	10	41
40	40	40	40	40	70	90	70	90	80	40	40	37
20	10	20	20	0	0	0	10	-20	-10	-10	-10	16

Date	00	01	02	03	04	05	06	07	08	09	10	11
031201	-10	-10	-20	-30	-40	-	-10	[-20]	[-20]	-10	-10	-10
031202	-10	0	0	10	30	20	-10	[-10]	-20	-30	-30	-20
031203	-20	-10	-10	-20	-30	-20	0	-10	-10	-10	0	-30
031204	-30	-20	-20	-20	-20	-20	[-10]	-10	0	-40	-30	-20
031205	30	30	30	20	10	10	20	[30]	20	10	20	20
031206	30	70	60	30	30	30	20	[30]	10	20	10	10
031207	20	30	40	40	40	40	40	40	[40]	40	40	40
031208	40	40	40	30	30	40	-	-	70	70	40	50
031209	40	40	40	30	30	40	40	[40]	40	40	50	60
031210	40	30	20	40	40	30	30	[30]	30	40	30	40
031211	10	10	-10	-30	-20	-30	-20	-10	-10	0	0	-10
031212	40	60	60	70	80	50	80	[80]	50	50	80	80
031213	30	20	30	20	10	20	20	[40]	40	50	40	40
031214	-10	-30	-10	-10	20	30	0	10	-	0	10	OBS
031215	30	30	30	20	20	10	OBS	OBS	-	30	40	40
031216	-20	-10	10	20	20	30	20	-10	10	30	40	30
031217	30	30	30	40	40	30	40	[40]	70	60	40	30
031218	40	40	40	40	40	40	30	[40]	60	50	40	40
031219	30	30	50	20	30	40	30	[40]	[40]	60	50	60
031220	90	80	70	80	70	40	40	[70]	40	50	50	20
031221	20	-30	-60	-30	10	30	70	[60]	70	80	70	40
031222	20	10	20	20	30	40	-	-	-	60	60	60
031223	20	30	30	30	30	30	30	[30]	30	30	30	40
031224	40	40	40	40	30	30	30	[40]	40	40	40	50
031225	30	40	40	40	40	40	[30]	40	40	40	50	40
031226	40	40	40	40	50	30	40	40	[40]	50	70	80
031227	40	40	40	30	30	20	20	[20]	[0]	-20	-10	10
031228	80	40	30	30	20	30	-10	-	-50	-50	20	0
031229	10	20	20	10	10	0	-10	[10]	20	30	-70	0
031230	50	30	0	-10	10	0	40	[40]	50	40	30	30
031231	-10	30	10	10	10	10	0	10	-10	-70	-20	-10

12	13	14	15	16	17	18	19	20	21	22	23	mean
-10	-10	0	-10	0	10	20	0	10	-10	0	0	-8
-10	-10	-30	-40	-30	-20	-30	-30	-20	-30	-30	-30	-16
-20	-20	-30	-30	-30	-30	-10	0	-10	-20	-30	-30	-18
-20	-30	-30	-20	20	30	10	20	20	30	30	30	-6
30	30	40	30	40	40	60	40	40	40	30	20	29
-10	OBS	-10	10	40	40	40	40	30	30	30	20	27
40	40	40	40	40	40	30	40	80	70	70	40	43
50	50	50	70	60	80	60	70	70	70	70	50	-
60	60	70	70	80	80	90	80	40	40	40	60	53
40	40	40	40	10	30	30	20	20	20	30	10	30
[0]	0	-10	-20	-20	-20	0	-10	-30	-50	0	30	-10
90	40	40	50	40	40	40	30	40	40	30	30	54
40	40	40	40	40	0	30	10	30	30	20	0	28
50	-10	30	40	40	40	40	40	40	40	40	30	-
30	OBS	40	40	OBS	OBS	OBS	OBS	OBS	OBS	OBS	20	-
20	10	10	-S	OBS	40	60	40	20	20	30	30	-
10	0	0	10	40	50	40	30	30	30	30	30	33
60	70	60	60	50	60	60	60	50	30	50	30	48
60	60	60	40	80	80	50	70	100	100	90	90	57
70	60	70	50	60	80	80	80	30	70	60	30	60
40	60	60	-10	20	10	20	40	30	30	10	30	28
50	50	60	60	60	60	40	50	50	40	40	40	-
30	30	40	40	40	40	40	40	40	40	40	40	34
60	60	60	60	60	50	50	60	50	40	40	40	45
40	40	40	50	60	70	100	80	70	70	60	40	50
80	70	70	60	70	60	60	60	50	70	60	50	55
10	30	50	50	50	70	80	80	70	50	50	40	35
10	20	20	20	20	30	20	10	20	10	10	10	15
30	0	-30	-40	30	40	40	10	40	40	40	40	12
70	80	70	60	80	90	110	120	10	30	40	30	46
-30	-70	-70	20	-10	-20	-20	-50	-40	-60	-50	0	-18

*Hourly means of the
2004*

Date	00	01	02	03	04	05	06	07	08	09	10	11
040101	10	30	40	40	40	10	10	[10]	10	30	20	30
040102	40	30	30	30	30	30	30	-	-	30	30	30
040103	10	20	20	20	30	20	20	[10]	[20]	40	40	40
040104	30	20	20	10	30	20	30	[40]	40	40	40	40
040105	70	80	80	80	+S	OBS	-S	-	-	OBS	-50	120
040106	40	50	50	40	50	50	60	80	[40]	70	70	70
040107	30	40	30	0	-10	-50	-20	[-10]	-20	0	20	50
040108	70	60	50	40	40	50	60	40	[70]	80	80	80
040109	-50	-50	-60	-60	-50	-40	-30	-40	[-30]	-60	-50	-40
040110	70	70	80	150	110	80	90	[150]	40	40	30	40
040111	40	40	40	40	50	30	30	[30]	40	40	80	80
040112	20	40	90	-	-	-	-	-	30	40	30	70
040113	-10	-20	-10	10	20	30	40	[30]	-	40	40	50
040114	-S	OBS	-S	10	30	30	40	[40]	30	40	40	40
040115	40	30	-S	OBS	OBS	-S	OBS	[20]	50	40	40	30
040116	30	30	30	30	40	40	50	[60]	50	50	60	60
040117	60	70	50	50	40	40	[40]	50	70	80	80	70
040118	60	40	50	40	40	40	40	40	[40]	50	40	40
040119	30	40	30	20	30	30	-	-	-	50	40	40
040120	-50	-30	-30	-30	-20	-110	-30	-10	-10	-10	10	10
040121	30	30	40	30	40	50	50	[50]	50	40	40	30
040122	40	40	30	30	40	30	OBS	OBS	-S	-S	30	40
040123	80	50	50	70	60	50	70	[80]	[80]	80	80	70
040124	80	70	70	60	80	70	70	[70]	[80]	70	70	60
040125	70	60	40	40	40	50	60	[70]	[80]	80	80	80
040126	40	30	40	40	30	10	-	30	20	30	40	60
040127	10	40	40	40	40	40	20	[-10]	-	10	0	30
040128	70	80	130	80	90	50	40	40	[30]	40	30	40
040129	20	20	20	20	30	40	40	40	80	[80]	90	70
040130	30	30	30	30	30	40	40	60	[50]	70	80	90
040131	60	40	60	80	70	80	90	[90]	[90]	80	90	80

potential gradient

12	13	14	15	16	17	18	19	20	21	22	23	mean
40	40	50	60	60	60	60	60	50	50	40	40	37
30	30	30	40	40	40	40	40	30	30	30	20	-
50	50	60	70	70	50	50	50	50	40	30	30	37
40	40	50	30	20	30	80	50	30	30	30	-10	33
-30	80	30	20	70	70	50	40	-10	10	10	10	-
80	80	90	90	80	80	70	80	50	30	40	30	61
80	90	70	60	70	30	50	50	110	80	60	50	36
90	120	80	30	30	50	20	-40	-60	-40	-50	-30	38
0	-30	-60	10	20	30	40	20	30	30	30	60	-16
70	60	60	40	40	40	40	40	40	60	40	40	63
80	50	40	40	30	30	20	30	20	-S	-S	-S	-
60	50	30	40	50	50	40	40	-40	-20	-10	0	-
50	40	-20	30	40	40	30	30	0	40	60	70	27
40	40	40	60	70	80	100	90	50	50	40	40	-
30	30	30	30	30	20	20	30	10	30	30	30	-
70	90	80	80	70	60	60	60	50	60	50	50	55
20	30	80	80	50	40	50	60	50	50	60	60	55
40	50	30	30	30	40	40	50	40	40	30	30	40
40	50	50	40	40	30	40	30	20	20	-20	-S	-
0	30	40	10	30	40	40	40	50	50	40	40	4
30	40	30	OBS	40	50	40	-S	20	50	40	40	-
40	40	50	50	50	70	80	80	90	80	80	80	-
70	80	80	90	80	70	70	60	80	100	80	80	73
60	60	70	70	40	40	50	60	80	60	60	70	65
70	60	40	40	40	70	40	50	30	140	130	30	62
70	60	40	30	40	40	20	10	0	10	20	0	31
40	30	0	50	40	170	130	130	110	80	70	80	52
40	40	50	60	50	70	60	80	80	50	30	30	57
80	70	70	70	120	80	80	60	30	40	40	40	55
90	80	70	50	70	80	80	80	90	80	60	50	61
90	90	110	90	90	100	110	90	110	100	90	80	86

Date	00	01	02	03	04	05	06	07	08	09	10	11
040201	70	60	60	80	80	80	70	[70]	80	80	70	100
040202	40	30	30	30	40	40	-	-	[40]	40	50	70
040203	-	-	-	-	60	40	80	80	80	80	60	40
040204	10	20	30	10	10	20	30	30	[40]	40	30	40
040205	30	30	30	30	20	30	40	[30]	[40]	40	50	70
040206	30	20	20	30	20	20	30	30	[30]	40	50	40
040207	60	40	30	20	10	20	20	[40]	[30]	40	40	40
040208	30	30	30	20	30	30	30	[-10]	20	20	30	30
040209	10	10	10	30	10	10	-	-	[30]	30	30	30
040210	OBS	OBS	60	30	30	20	30	[40]	[30]	40	40	30
040211	40	40	30	20	20	20	20	[10]	-10	-10	20	30
040212	30	30	30	50	40	50	70	10	[40]	40	50	20
040213	60	40	40	40	40	110	+S	[20]	-	40	70	70
040214	30	30	30	20	20	10	10	10	10	10	30	50
040215	30	30	30	10	10	10	10	20	[40]	40	40	40
040216	30	20	+S	+S	10	10	20	-	-	40	40	40
040217	30	30	30	40	40	40	40	[60]	[50]	50	60	50
040218	70	50	40	30	30	30	30	40	[40]	70	40	40
040219	30	30	30	20	20	30	40	[70]	-	60	50	50
040220	40	40	40	30	30	30	30	[40]	[60]	50	50	50
040221	40	40	40	30	40	40	50	[50]	50	50	40	60
040222	10	10	20	10	-10	0	0	[-10]	-10	-10	-10	10
040223	-20	20	70	130	130	120	-	-	-30	-30	10	OBS
040224	40	40	30	30	30	30	40	40	[50]	50	40	40
040225	30	30	30	30	30	40	50	[60]	60	70	60	60
040226	80	60	70	40	50	50	80	[40]	40	50	100	120
040227	OBS	OBS	+S	40	10	20	0	10	[20]	40	40	30
040228	20	30	40	30	30	40	40	[40]	[40]	40	40	50
040229	-S	-S	-S	-20	10	10	0	-10	30	40	30	30

12	13	14	15	16	17	18	19	20	21	22	23	mean
90	90	130	90	80	80	80	80	80	60	60	40	78
80	70	60	20	-10	20	-	-	-	-	-	-	-
50	70	80	50	50	40	40	40	30	30	20	10	-
30	40	50	60	80	90	90	70	80	40	40	30	42
50	50	50	40	40	40	30	40	30	30	30	20	37
40	40	40	50	50	40	50	40	40	40	30	30	35
40	30	40	30	20	10	-50	30	30	30	30	30	28
40	OBS	20	-40	20	20	20	20	20	20	20	10	20
OBS	OBS	40	40	OBS	OBS	OBS	OBS	OBS	-S	OBS	OBS	-
40	40	40	40	50	50	50	40	40	40	40	40	-
20	40	90	20	OBS	OBS	10	-S	40	40	60	60	-
40	40	50	60	60	70	80	80	90	80	80	80	53
50	70	80	10	40	80	40	30	70	50	30	30	-
60	50	60	60	70	50	50	60	60	30	20	20	35
40	50	60	40	40	40	40	40	30	30	10	20	31
40	40	40	40	30	70	40	40	40	40	40	30	-
70	60	60	50	50	70	80	80	80	80	50	60	55
30	-30	40	70	50	50	50	40	50	40	40	40	41
50	50	50	50	50	60	50	50	40	40	30	30	43
60	60	50	50	50	40	40	50	50	40	40	30	44
60	60	50	40	-10	30	20	30	30	30	30	30	39
0	0	0	0	-10	-30	-30	-20	-20	-20	-10	-20	-6
OBS	OBS	OBS	OBS	80	60	30	30	40	40	40	40	-
40	40	40	40	20	10	30	10	-20	-30	20	30	29
60	70	80	70	70	70	80	60	60	80	80	80	59
80	30	80	+S	40	30	50	130	120	80	70	OBS	-
40	50	40	50	40	40	40	40	30	30	20	20	-
50	50	60	70	60	40	20	20	0	OBS	OBS	-S	-
30	40	30	40	40	40	40	40	40	40	30	30	-

Date	00	01	02	03	04	05	06	07	08	09	10	11
040301	30	30	30	30	30	30	-	-	-	30	40	30
040302	40	30	30	30	30	30	40	[60]	[30]	20	30	10
040303	10	10	10	10	10	20	30	[40]	40	40	40	40
040304	30	20	20	20	30	40	50	[40]	40	40	40	50
040305	40	40	40	30	30	40	40	[40]	[30]	30	20	30
040306	40	40	40	30	20	30	30	20	[10]	30	50	50
040307	20	20	0	-10	20	20	20	[20]	[30]	30	30	30
040308	OBS	OBS	OBS	OBS	OBS	-S	-	-	-	30	20	10
040309	-40	-50	-10	-30	-50	0	0	10	[-10]	-20	30	10
040310	20	10	10	10	10	20	20	30	-	40	40	40
040311	40	40	30	30	30	30	30	40	[40]	40	40	40
040312	20	30	30	30	30	20	30	[40]	[40]	40	40	40
040313	-10	0	-10	-10	-20	-30	0	[20]	10	20	30	30
040314	30	40	40	40	40	30	40	[40]	40	60	60	50
040315	40	40	30	40	50	70	90	[80]	-	50	60	60
040316	40	30	30	20	20	30	30	-	-	30	30	30
040317	30	20	30	30	30	30	40	40	[30]	40	40	40
040318	30	30	30	30	40	40	50	[50]	50	50	50	40
040319	30	30	30	30	20	10	20	[30]	[30]	20	30	30
040320	20	20	20	20	10	10	20	[0]	20	30	30	40
040321	0	40	40	20	20	20	20	[20]	20	10	30	30
040322	OBS	-S	10	-50	0	-30	-	-	-	20	30	30
040323	30	20	20	20	30	[20]	0	-30	-20	0	-70	-60
040324	-10	-10	10	20	20	20	20	10	[30]	20	70	10
040325	80	80	50	30	10	10	0	-30	-30	10	-10	-40
040326	30	20	10	10	10	0	-30	[20]	[40]	40	40	40
040327	-20	-40	-30	-10	-10	[30]	60	70	40	30	-10	50
040328	20	20	30	30	30	30	[40]	30	30	30	30	40
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040330	50	30	30	40	30	30	[30]	40	40	40	30	30
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-10	-20	10	0	30	-20	10	-20	-10	0	10	10	-7
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-70	-30	-10	-10	-30	-20	-10	-20	-10	-10	-10	-40	-13
0	-20	0	0	-20	-S	+S	0	40	60	80	80	-
0	0	10	10	10	10	10	10	20	10	20	30	13
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Date	00	01	02	03	04	05	06	07	08	09	10	11
040401	30	30	30	40	50	30	[30]	[40]	30	40	40	30
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040403	20	10	10	10	10	10	[10]	20	30	40	30	40
040404	20	10	0	10	20	OBS	OBS	[20]	30	30	30	30
040405	-	-	-	-	-	-	[20]	-	20	20	OBS	-S
040406	30	30	30	30	30	20	[30]	40	40	30	30	40
040407	40	50	40	30	30	40	[40]	[50]	30	20	20	20
040408	20	20	30	20	10	20	30	[40]	30	30	30	30
040409	30	40	20	30	30	20	[40]	40	40	40	40	50
040410	30	30	10	10	10	10	[20]	20	30	40	40	40
040411	30	30	0	-10	20	[30]	20	40	60	60	60	30
040412	40	30	30	30	30	30	[40]	40	40	50	60	60
040413	20	20	20	70	20	30	-	-	40	40	40	40
040414	10	10	10	10	10	10	20	[20]	30	30	40	40
040415	30	30	20	20	20	30	[30]	[30]	30	20	20	20
040416	10	0	-10	0	10	0	[20]	[30]	30	30	30	40
040417	30	20	30	10	-10	10	10	10	10	10	20	40
040418	10	0	20	40	40	40	30	30	[30]	30	40	40
040419	50	80	30	10	10	-	-	-	40	40	30	30
040420	OBS	0	30	-50	-10	-10	-	-	10	30	20	40
040421	30	20	10	10	20	[30]	40	40	40	40	40	40
040422	30	20	10	30	20	[20]	40	40	40	40	40	40
040423	20	10	20	10	20	30	[40]	[30]	30	40	40	40
040424	30	20	30	20	30	0	[20]	20	30	30	20	20
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040426	20	20	30	20	20	-	-	-	40	50	60	50
040427	30	30	30	30	20	30	[30]	[30]	30	30	30	40
040428	20	20	20	20	20	30	[30]	[30]	30	30	30	30
040429	10	20	20	20	30	30	[20]	20	20	30	30	30
040430	20	10	20	10	20	20	[20]	30	30	30	30	40

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20	-S	OBS	+S	OBS	30	40	70	80	-	-	-	-
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40	40	40	30	30	10	40	40	40	30	30	10	24
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30	OBS	OBS	+S	+S	OBS	OBS	OBS	OBS	OBS	OBS	OBS	-
80	70	50	40	30	30	20	20	20	10	10	10	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
040501	30	20	20	20	30	30	[40]	40	40	40	40	40
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040503	20	0	10	10	10	-	-	-	30	20	20	30
040504	10	20	20	10	0	10	[20]	30	20	20	30	0
040505	10	0	10	10	10	10	[10]	[20]	10	0	10	0
040506	10	20	10	30	10	10	20	10	30	OBS	-S	OBS
040507	10	10	10	10	20	30	[30]	30	20	10	20	20
040508	30	30	30	20	30	[30]	30	30	-20	20	60	20
040509	20	10	10	10	20	40	70	40	30	0	10	10
040510	30	30	20	20	30	-	-	-	30	20	20	20
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040513	20	20	20	20	30	30	[50]	30	20	20	10	OBS
040514	40	30	30	30	30	30	[30]	20	30	30	20	30
040515	10	10	10	10	10	[30]	40	40	40	40	40	40
040516	-S	OBS	OBS	OBS	-S	-20	[140]	70	30	30	10	10
040517	30	30	30	20	20	-	-	-	10	20	20	30
040518	30	30	20	10	10	30	[30]	[20]	20	30	30	30
040519	0	0	0	0	0	0	[10]	30	40	30	40	40
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040521	20	30	20	10	40	70	40	[40]	40	40	40	40
040522	-20	0	20	30	10	OBS	OBS	-10	80	80	80	50
040523	0	0	10	10	20	30	40	[30]	30	10	10	10
040524	20	30	20	10	20	-	-	50	40	30	30	30
040525	10	10	10	10	10	10	10	[20]	20	30	30	40
040526	20	20	10	10	10	30	20	[30]	30	30	30	30
040527	20	30	20	20	30	50	80	[70]	-10	10	50	80
040528	30	30	20	20	30	OBS	[-30]	[-20]	-30	30	OBS	OBS
040529	30	30	30	30	40	50	[80]	[80]	50	40	40	30
040530	30	30	30	30	40	40	[40]	50	40	50	50	50
040531	30	30	30	30	30	30	-	[50]	50	60	60	50

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OBS	0	30	40	30	20	30	30	20	10	10	10	-
30	-10	0	30	40	40	40	40	40	30	30	30	23
30	0	OBS	OBS	OBS	60	20	20	10	30	20	20	-
20	20	20	-S	OBS	OBS	10	10	30	30	30	30	-
30	30	20	20	20	20	30	30	20	20	20	10	-
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30	20	30	20	20	-S	-S	-20	30	0	-50	-S	-
10	20	20	10	20	20	20	20	30	30	20	20	-
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30	30	30	30	30	30	-S	-S	20	-10	10	10	-
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-S	OBS	OBS	OBS	OBS	OBS	70	20	20	20	10	-20	-
-10	20	10	0	0	10	0	10	10	10	-10	-10	-
20	30	20	-S	OBS	OBS	30	-S	30	20	OBS	20	-
30	30	30	30	30	30	20	10	20	20	10	10	-
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30	20	20	30	30	10	10	OBS	OBS	20	OBS	OBS	-
50	50	-S	OBS	-S	30	-10	-40	-40	40	40	30	-
-S	OBS	-S	-S	30	60	70	50	40	40	40	30	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
040601	10	20	20	20	20	30	-	-	20	20	10	20
040602	20	10	10	0	OBS	+S	OBS	-S	OBS	OBS	OBS	30
040603	30	40	40	30	20	-S	-S	[-S]	-S	-S	-10	30
040604	0	30	10	-20	10	30	[40]	[40]	0	0	30	40
040605	30	30	20	10	10	[10]	[20]	30	50	60	50	30
040606	30	30	30	10	30	40	30	[40]	[40]	20	30	30
040607	20	20	20	20	10	-	-	-	40	40	40	40
040608	10	10	0	10	10	20	[20]	30	30	40	50	50
040609	10	10	10	10	10	30	[30]	[30]	30	50	50	60
040610	20	30	20	20	10	20	[30]	40	40	OBS	OBS	30
040611	30	30	20	OBS	-S	30	[80]	[40]	30	30	30	40
040612	OBS	OBS	10	10	30	40	[80]	60	60	40	30	0
040613	10	10	30	70	50	50	50	[40]	40	50	50	40
040614	30	30	30	20	20	-	-	-	30	40	50	40
040615	10	10	10	10	10	10	[30]	30	40	30	30	40
040616	10	80	10	10	10	10	10	10	10	10	40	40
040617	20	20	20	20	20	40	[40]	[30]	30	30	20	30
040618	10	10	10	10	10	20	[30]	-S	OBS	OBS	20	0
040619	30	30	40	20	30	20	[30]	[40]	30	30	40	30
040620	OBS	OBS	60	20	40	30	[40]	OBS	80	20	50	40
040621	20	10	10	10	10	-	-	-	50	40	30	30
040622	10	10	10	10	30	40	40	[40]	40	40	40	40
040623	40	30	30	20	20	40	[30]	[30]	30	40	40	40
040624	20	20	30	10	20	30	[30]	40	30	30	30	40
040625	10	30	-S	-S	OBS	OBS	OBS	OBS	-S	OBS	OBS	OBS
040626	10	20	10	10	20	30	[70]	80	90	60	40	30
040627	20	20	20	10	10	30	[30]	30	30	30	40	40
040628	10	10	10	10	10	-	-	-	30	30	30	30
040629	20	10	10	10	10	30	[30]	30	30	40	40	40
040630	10	10	0	10	10	30	[60]	40	50	40	40	40

Date	00	01	02	03	04	05	06	07	08	09	10	11
040701	20	30	40	20	30	30	[30]	40	40	40	40	40
040702	10	10	10	0	0	10	20	[-10]	10	-10	-10	-20
040703	20	30	20	20	30	[50]	80	80	70	50	40	50
040704	30	20	20	20	10	20	[20]	30	30	40	40	40
040705	40	40	40	40	50	-	-	50	40	40	+S	40
040706	10	20	20	(10)	20	30	[90]	70	60	40	40	40
040707	20	10	10	10	10	30	[40]	50	50	80	50	40
040708	20	30	40	40	40	40	[30]	40	40	50	50	50
040709	30	30	30	30	30	30	OBS	+S	30	30	30	OBS
040710	30	30	30	30	30	30	[30]	40	30	40	40	40
040711	30	30	20	20	20	30	40	30	[30]	30	30	30
040712	20	30	20	20	20	-	-	-	20	30	30	30
040713	20	30	30	30	40	40	[40]	40	40	40	40	40
040714	40	30	30	30	30	40	[40]	40	40	40	30	40
040715	10	20	0	-10	10	30	[80]	[50]	80	50	10	20
040716	30	10	10	10	10	20	[30]	40	40	40	40	50
040717	10	20	10	10	10	10	10	20	20	30	40	40
040718	30	30	40	30	40	40	40	[40]	40	50	50	50
040719	20	20	0	10	10	-	[40]	-	30	30	40	50
040720	20	10	10	10	10	30	[30]	30	30	30	40	30
040721	10	10	10	10	20	30	[30]	30	40	40	60	60
040722	20	20	20	20	20	30	[40]	30	40	30	20	OBS
040723	40	40	40	40	40	50	[50]	[50]	50	50	60	60
040724	20	20	30	20	30	40	[40]	[30]	30	40	40	50
040725	10	10	10	10	10	10	20	20	[30]	40	40	50
040726	30	30	30	30	20	-	[30]	-	40	40	40	40
040727	20	20	20	10	20	30	[30]	30	40	40	40	30
040728	30	30	30	20	20	30	[30]	30	30	40	40	30
040729	10	10	30	30	30	0	0	0	10	10	10	0
040730	30	30	30	30	30	30	[40]	40	40	40	40	30
040731	40	30	30	30	30	40	[40]	40	40	40	60	50

12	13	14	15	16	17	18	19	20	21	22	23	mean
40	60	+S	OBS	OBS	OBS	-S	OBS	-S	20	OBS	0	-
0	10	20	10	-20	20	-20	-20	-10	-30	0	10	0
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40	40	40	40	40	50	40	40	40	40	40	30	33
OBS	OBS	OBS	OBS	OBS	0	10	OBS	OBS	10	10	10	-
+S	OBS	OBS	OBS	OBS	20	40	40	30	40	30	30	-
40	40	30	30	30	40	40	30	30	20	20	20	32
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+S	+S	OBS	-S	30	30	40	30	30	20	10	20	-
40	40	40	40	40	30	30	30	20	20	10	20	27
70	70	70	70	50	40	30	20	20	20	20	20	35
OBS	OBS	OBS	30	30	40	40	40	50	40	40	40	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
040801	20	30	20	10	10	20	-S	OBS	0	40	40	50
040802	20	20	20	20	20	-	-	[30]	30	40	40	40
040803	20	20	20	10	10	10	20	[30]	30	30	60	50
040804	20	20	30	20	20	30	[50]	50	50	40	40	50
040805	20	20	20	20	20	20	30	[30]	30	40	40	40
040806	10	20	20	20	20	30	[20]	30	30	30	30	40
040807	20	20	20	OBS	OBS	-S	[80]	150	80	50	40	40
040808	30	40	30	30	30	40	50	40	[40]	60	70	60
040809	40	40	30	30	20	-	-	30	40	50	60	60
040810	30	30	30	30	20	40	[50]	40	50	50	60	50
040811	20	20	10	20	30	30	[30]	30	40	40	40	30
040812	10	20	10	10	10	20	[40]	30	20	30	30	40
040813	20	10	-S	-S	20	30	[10]	30	80	30	30	30
040814	OBS	OBS	0	20	20	[30]	40	40	40	40	40	40
040815	10	10	20	20	30	30	40	40	40	40	40	40
040816	10	10	20	20	10	-	-	30	30	30	30	40
040817	30	30	20	20	20	20	[20]	[30]	30	30	40	40
040818	20	10	10	10	20	30	[20]	30	30	30	40	50
040819	10	10	20	20	10	20	30	[30]	30	30	30	40
040820	20	10	10	10	20	30	[40]	30	30	30	10	20
040821	+S	OBS	+S	20	20	20	[40]	40	40	40	30	30
040822	10	10	20	20	20	20	[30]	30	30	30	40	30
040823	30	30	30	30	30	-	-	-	40	40	40	40
040824	40	30	40	30	40	40	[40]	40	40	40	30	30
040825	+S	-70	OBS	30	+S	-S	[70]	+S	0	30	10	30
040826	OBS	20	10	10	10	+S	[30]	50	40	50	20	20
040827	40	30	30	20	20	30	[40]	30	30	40	50	40
040828	20	20	20	30	20	[20]	30	30	30	30	40	40
040829	20	10	20	20	30	40	[30]	10	30	20	30	30
040830	20	20	10	20	20	-	-	-	20	30	30	30
040831	10	10	10	0	0	0	[50]	0	0	20	10	0

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70	60	60	60	50	40	40	40	30	20	30	30	44
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10	0	0	30	+S	80	0	50	30	30	30	20	23
20	20	20	10	10	-S	OBS	-30	30	30	30	10	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
040901	10	10	10	10	10	20	[30]	40	40	40	30	30
040902	30	30	20	20	20	[30]	[40]	30	20	20	30	30
040903	20	30	30	20	30	30	[30]	30	30	30	40	40
040904	20	10	10	10	[10]	20	30	30	30	40	40	40
040905	20	20	20	10	10	20	[40]	40	40	30	40	40
040906	40	30	30	30	30	30	-	30	(40)	60	60	60
040907	20	30	20	20	20	20	[20]	30	30	30	40	50
040908	10	20	20	10	20	20	[20]	20	(10)	30	30	30
040909	30	40	30	30	30	30	[40]	40	50	50	40	50
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040911	20	30	20	20	30	[30]	30	20	10	30	30	30
040912	30	30	30	30	30	20	[30]	30	30	30	40	40
040913	30	30	30	30	30	-	-	[40]	40	40	40	40
040914	40	40	50	40	50	40	[60]	[40]	30	40	40	40
040915	40	40	40	30	30	30	[10]	20	30	30	50	70
040916	30	30	30	20	30	20	40	-	40	30	30	40
040917	40	30	30	30	[30]	30	40	40	50	40	40	50
040918	10	10	20	20	20	20	[20]	30	30	30	40	40
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040920	20	20	20	20	20	-	[30]	-	30	40	40	40
040921	30	30	30	30	30	30	[30]	[30]	30	40	40	30
040922	30	30	20	30	0	10	[20]	[20]	20	10	0	10
040923	-70	-160	-50	-20	10	30	[30]	40	30	30	20	30
040924	-30	20	-S	10	0	10	30	[40]	40	40	60	30
040925	20	20	20	20	30	30	30	40	40	40	40	40
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040928	10	10	10	10	10	10	[10]	[20]	30	40	40	40
040929	10	10	10	10	10	10	[30]	40	40	30	30	40
040930	OBS	20	20	20	20	[20]	30	30	40	40	-20	-10

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40	30	30	30	30	30	40	30	OBS	OBS	-S	OBS	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
041001	30	20	20	20	20	20	[20]	10	30	30	40	40
041002	20	30	30	30	30	20	[20]	40	40	30	40	40
041003	20	20	30	10	10	10	-	30	60	40	40	40
041004	20	20	10	20	20	30	-	-	30	40	40	40
041005	10	-10	-10	10	20	40	[40]	30	20	40	40	40
041006	30	30	30	30	[30]	30	20	20	20	-	-	-
041007	-	-	-	-	-	-	-	-	-	-	-	-
041008	-	-	-	-	-	-	-	-	-	-	-	-
041009	-	-	-	-	-	-	10	OBS	OBS	30	40	40
041010	OBS	-S	10	OBS	-10	0	OBS	OBS	OBS	30	80	30
041011	20	20	20	20	20	-	-	-	60	50	40	50
041012	30	30	30	20	30	30	[20]	[20]	20	30	40	40
041013	0	0	10	10	-30	10	[10]	[10]	-10	10	10	10
041014	-10	10	10	0	-10	[-10]	-10	-10	-20	-20	-10	0
041015	0	0	0	10	10	20	10	-30	0	0	10	20
041016	10	20	20	20	10	10	-10	-80	-110	-S	OBS	-70
041017	30	30	30	20	20	10	[10]	30	40	50	40	40
041018	20	30	40	30	40	-	-	-	40	40	40	40
041019	20	20	30	20	20	30	[30]	30	40	40	40	40
041020	30	30	40	40	40	40	[40]	40	50	40	60	50
041021	30	30	20	30	20	[10]	[20]	10	20	10	30	40
041022	20	0	-90	OBS	-S	+S	-S	[-10]	20	80	80	70
041023	100	140	140	170	160	130	[80]	50	20	0	10	10
041024	80	50	30	40	30	40	[30]	20	20	10	20	30
041025	80	90	80	80	30	-	[70]	50	30	30	30	30
041026	30	30	0	20	30	30	[50]	40	40	30	40	40
041027	10	10	10	10	30	30	[40]	30	20	20	20	30
041028	10	20	10	10	10	10	[30]	30	30	30	30	30
041029	30	40	40	30	30	40	30	[40]	30	30	40	40
041030	40	30	30	20	10	10	[20]	30	30	30	30	40
041031	30	30	30	30	20	-30	-30	[20]	40	40	30	40

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-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
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Date	00	01	02	03	04	05	06	07	08	09	10	11
041101	10	10	10	20	10	20	10	[20]	-	30	30	30
041102	10	10	10	10	10	10	10	[30]	50	30	30	30
041103	40	30	20	20	30	10	30	40	[30]	20	30	20
041104	0	10	10	20	20	30	[10]	10	20	20	30	40
041105	30	30	40	40	40	40	40	[40]	50	70	60	40
041106	10	10	30	20	20	20	30	30	30	40	30	30
041107	10	10	10	20	20	20	20	-	-	40	20	30
041108	20	20	30	30	20	30	-	-	-	40	40	30
041109	-10	-20	-20	-10	OBS	OBS	-S	-S	-S	+S	-S	-S
041110	40	70	80	60	40	60	80	[80]	[70]	80	60	40
041111	30	30	20	10	20	10	10	[10]	30	30	40	30
041112	10	0	0	10	10	10	10	[30]	40	40	40	40
041113	30	10	20	-20	-30	20	20	[30]	10	10	0	20
041114	20	30	20	20	30	30	30	[40]	40	40	40	40
041115	20	20	20	10	20	20	-	-	-	30	40	40
041116	40	40	40	40	40	30	30	[20]	20	30	20	20
041117	30	20	10	10	40	40	60	[50]	70	50	50	60
041118	40	50	40	40	40	40	40	[50]	60	60	50	40
041119	30	30	40	40	30	30	30	20	[20]	30	OBS	-S
041120	20	-S	OBS	OBS	OBS	40	30	[40]	[40]	40	40	40
041121	30	40	40	40	OBS	-S	30	[40]	40	40	40	40
041122	30	30	20	20	10	20	-	-	-	50	-20	-70
041123	20	10	20	10	10	30	30	[30]	30	30	30	30
041124	40	40	40	40	40	40	30	40	[40]	40	40	40
041125	40	40	40	40	40	40	40	[60]	80	70	60	40
041126	70	70	50	40	40	40	40	[50]	50	70	70	70
041127	40	50	40	30	30	30	20	[10]	40	40	30	30
041128	30	30	30	20	20	30	30	[30]	30	40	40	40
041129	80	80	60	80	70	60	-	-	-	80	80	70
041130	130	80	80	90	90	90	80	[50]	50	20	10	10

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10	0	20	30	30	40	50	60	80	80	70	80	-
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30	40	30	[30]	20	10	20	20	20	20	10	10	22
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Date	00	01	02	03	04	05	06	07	08	09	10	11
041201	-20	20	-10	10	10	-10	[0]	10	0	0	0	0
041202	0	20	10	30	30	40	30	[40]	30	40	40	40
041203	20	30	20	20	10	20	30	[30]	40	60	60	50
041204	30	30	30	30	30	30	30	[20]	30	40	40	40
041205	30	30	20	30	30	20	30	[30]	30	10	10	10
041206	30	30	30	-	-	-	-	-	-	90	60	40
041207	40	40	30	30	30	40	40	[60]	40	40	40	40
041208	80	40	30	10	30	30	20	[30]	[40]	40	70	60
041209	40	30	30	40	40	30	40	[40]	[60]	40	40	40
041210	40	40	30	30	30	30	30	[30]	30	30	30	30
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041214	10	10	10	10	30	40	20	[20]	30	20	20	30
041215	20	0	10	10	30	10	30	[0]	-10	0	0	30
041216	30	0	0	10	30	0	10	[-10]	-10	-20	-20	-10
041217	-40	-30	-30	-20	-40	-20	0	0	-S	OBS	-10	-20
041218	20	0	0	10	30	30	0	70	80	70	30	20
041219	30	40	40	40	40	40	40	40	-	40	60	60
041220	30	30	20	20	30	30	40	60	-	50	50	60
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041222	30	40	70	80	80	[30]	30	70	70	70	50	70
041223	40	70	70	40	-10	[0]	30	70	60	40	50	40
041224	30	20	30	20	20	20	20	30	30	[50]	70	70
041225	80	70	60	40	20	-10	0	40	[40]	50	50	60
041226	20	10	10	10	10	30	30	[20]	20	40	60	40
041227	-S	OBS	+S	OBS	OBS	OBS	OBS	OBS	-	10	20	30
041228	40	60	50	50	40	60	50	[40]	70	40	30	20
041229	40	50	60	50	40	30	40	-	-	40	40	40
041230	40	50	50	50	50	50	40	[40]	30	20	30	40
041231	40	40	40	40	40	40	40	[40]	40	40	80	80

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-10	-10	-10	-10	-10	0	10	10	10	10	0	0	0
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60	60	60	40	40	40	40	40	40	40	30	40	42
40	30	40	40	60	70	70	60	40	40	40	40	40
40	40	40	20	40	40	40	30	10	-10	-20	-10	24
40	40	30	40	40	70	60	60	40	40	30	30	27
40	40	40	30	30	30	30	40	30	40	10	10	-
30	20	30	30	30	40	30	20	10	20	30	30	24
10	0	0	0	0	-20	-40	-20	-10	40	10	0	4
20	30	0	-30	-30	-30	-10	-30	-40	-60	-40	-30	-10
-30	-70	30	70	40	40	20	90	30	40	30	10	-
20	30	30	[40]	40	40	40	40	60	40	40	40	34
60	70	60	40	60	70	80	40	40	0	0	20	44
60	80	80	80	60	90	120	110	100	90	70	60	62
60	70	60	50	70	80	90	110	100	80	70	60	63
60	30	30	-10	-20	30	30	40	10	40	30	30	41
0	30	40	40	70	80	80	60	30	30	30	20	42
70	80	70	80	80	80	80	90	100	80	50	60	55
50	50	50	50	40	50	40	50	50	50	40	40	44
20	10	-S	-S	-10	30	70	70	90	100	90	30	-
40	40	20	20	70	70	60	80	80	60	70	80	-
10	10	0	30	30	30	10	0	0	0	20	20	30
40	40	40	50	50	50	60	60	50	40	40	40	-
40	50	40	50	60	40	50	80	80	50	40	40	46
60	70	70	70	70	70	60	50	70	30	-S	OBS	-