

Table 1

Locality No.	Latitude (°)	Longitude (°)	Elevation (m)
Groundwater			
1	36.7553	136.9783	7
2	36.7380	136.9450	11
3	36.7168	136.9205	16
4	36.7194	136.9429	12
5	36.6955	136.9036	21
6	36.6793	136.8859	26
7	36.6609	136.8930	31
8	36.6542	136.8574	34
9	36.6305	136.8932	40
10	36.6238	136.9158	47
11	36.6144	136.8975	45
12	36.5978	136.9180	55
13	36.6098	136.9424	64
14	36.5997	136.9853	83
15	36.7328	137.0277	11
16	36.7366	136.9981	7
17	36.7336	136.9737	8
18	36.7119	136.9657	14
19	36.6834	136.9455	26
20	36.6816	136.9145	25
21	36.6702	136.9242	31
22	36.6561	136.9124	38
23	36.6337	136.9358	50
24	36.5842	136.9458	78
25	36.6247	136.9610	61
26	36.6321	136.9886	59
27	36.6575	136.9805	42
28	36.6628	136.9591	37
29	36.6742	136.9735	30
30	36.6954	136.9749	21
31	36.7115	136.9906	15
32	36.7013	137.0020	17
33	36.7214	137.0542	10
34	36.6678	137.0255	36
35	36.6210	137.0101	70
36	36.5708	136.9850	114
37	36.5058	136.9023	169
38	36.5563	136.9054	81
39	36.7600	137.0067	4
40	36.7579	137.0485	3
41	36.5394	136.8511	122
42	36.6389	136.8500	38
River water			
SR1 (Sho R.)	36.7351	137.0438	3
SR2 (Sho R.)	36.5899	136.9920	96
OR1 (Oyabe R.)	36.7487	136.9798	3
OR2 (Oyabe R.)	36.6176	136.8989	45

Table 2

(a)

2012/4/2						
Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
2	2012.4.2	13.1	7.44	37.3	153	-8.3
4	2012.4.2	11.7	7.69	26.0	157	-9.1
8	2012.4.2	12.3	6.14	12.8	240	-8.2
10	2012.4.2	12.2	7.09	12.6	187	-9.4
14	2012.4.2	10.6	7.27	15.3	185	-10.0
15	-	-	-	-	-	-
16	2012.4.2	12.6	7.91	12.6	137	-10.2
20	2012.4.2	13.8	7.01	19.4	184	-8.8
28	2012.4.2	12.5	7.24	16.0	196	-9.9
32	2012.4.2	11.5	8.10	8.9	163	-10.7
34	2012.4.2	12.3	7.82	11.6	189	-9.7

(b)

2012/4/24–5/1

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
1	2012.4.24	16.5	6.85	29.0	95	-8.4
2	2012.4.24	15.1	7.07	37.1	106	-8.4
3	2012.4.24	13.5	8.28	10.5	65	-8.6
4	2012.4.24	13.3	7.23	26.2	115	-9.2
5	2012.4.25	15.3	7.55	20.5	163	-8.4
6	2012.4.24	15.2	6.76	19.3	160	-9.1
7	2012.4.24	15.9	6.66	13.9	165	-9.5
8	2012.4.24	12.5	-	12.7	219	-8.4
9	2012.4.24	13.1	-	12.2	159	-9.2
10	2012.4.24	13.8	-	12.6	163	-9.1
11	2012.4.25	14.5	7.62	17.4	167	-8.5
12	2012.4.27	17.3	7.65	14.0	173	-9.0
13	2012.5.1	17.5	6.93	16.0	172	-8.9
14	2012.5.1	13.2	8.01	14.2	157	-10.0
15	2012.5.1	14.4	8.07	12.2	158	-10.1
16	2012.4.24	14.0	8.16	12.7	50	-10.1
17	2012.4.28	14.3	7.68	17.6	120	-9.9
18	2012.4.24	14.2	7.57	16.6	92	-9.2
19	2012.4.24	15.8	7.17	17.8	145	-8.8
20	2012.4.24	15.2	6.36	19.8	168	-9.0
21	2012.4.28	16.5	7.23	16.4	109	-8.6
22	2012.4.28	15.4	7.23	14.0	108	-9.2
23	2012.5.1	14.7	7.32	17.9	168	-9.1
24	2012.4.28	14.4	7.48	12.3	146	-8.9
25	2012.5.1	17.7	6.95	16.3	168	-9.3
26	2012.4.28	14.2	7.69	9.9	128	-10.2
27	2012.4.24	17.8	-	12.4	158	-10.0
28	2012.5.1	13.7	7.62	16.0	154	-9.8
29	2012.5.1	14.2	7.63	15.4	171	-9.6
30	2012.5.1	14.2	7.36	13.9	181	-8.9
31	2012.5.1	13.5	7.79	21.7	158	-10.1
32	2012.4.28	12.5	8.3	8.9	112	-10.6
33	2012.5.1	14.9	7.21	13.7	213	-9.0
34	2012.4.28	13.9	7.46	10.5	152	-9.8
35	2012.4.25	15.9	6.76	14.1	167	-9.1
36	2012.4.25	11.9	7.54	10.6	144	-9.6
37	2012.4.28	11.9	7.60	29.1	118	-8.5
38	2012.4.28	13.9	6.81	11.1	173	-8.9
39	2012.5.1	25.3	6.71	114	-2	-10.5
40	2012.5.1	19.5	7.64	13.2	67	-10.5
41	2012.4.28	10.0	6.28	8.7	185	-9.1
42	2012.4.28	14.0	7.72	14.7	-40	-8.8

(c)

2012/5/29

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
2	2012.5.29	14.2	7.11	37.9	210	-8.6
4	2012.5.29	13.1	7.26	26.7	227	-9.4
8	2012.5.29	11.9	5.44	13.2	286	-8.6
10	2012.5.29	14.6	6.40	12.8	223	-9.4
14	2012.5.29	14.1	7.10	14.5	190	-10.3
15	2012.5.29	14.6	7.54	12.3	194	-10.1
16	2012.5.29	13.2	7.45	12.0	214	-10.2
20	2012.5.29	14.6	6.21	20.1	294	-9.2
28	2012.5.29	14.5	6.61	16.4	258	-9.9
32	2012.5.29	12.1	7.61	9.0	190	-10.8
34	2012.5.29	13.4	6.43	10.2	179	-9.7

(d)

2012/6/23–6/26

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
1	2012.6.25	15.4	6.99	29.4	74	-8.8
2	2012.6.25	15.0	7.13	38.1	178	-8.2
3	2012.6.25	18.9	6.90	9.6	181	-8.4
4	2012.6.25	13.9	7.37	26.5	194	-9.3
5	2012.6.25	14.5	6.56	21.2	221	-8.7
6	2012.6.25	14.6	6.57	19.8	220	-9.2
7	2012.6.25	15.4	6.26	14.3	203	-9.2
8	2012.6.25	12.2	5.44	13.7	263	-8.3
9	2012.6.26	17.1	6.50	11.0	162	-9.6
10	2012.6.26	16.4	6.40	12.7	273	-8.9
11	2012.6.25	13.7	6.86	17.2	191	-9.0
12	2012.6.26	15.9	6.45	14.0	228	-8.8
13	2012.6.23	15.4	6.22	16.0	175	-8.9
14	2012.6.23	13.2	7.06	13.9	181	-10.1
15	2012.6.26	14.5	7.56	12.3	174	-10.0
16	2012.6.26	13.0	7.30	12.6	194	-10.1
17	2012.6.26	13.1	7.07	18.1	212	-10.1
18	2012.6.26	13.0	6.36	16.9	227	-9.5
19	2012.6.26	15.6	6.15	18.1	227	-9.1
20	2012.6.26	14.4	6.23	20.3	264	-9.2
21	2012.6.26	16.1	6.31	15.5	162	-8.7
22	2012.6.26	14.2	6.21	14.1	184	-9.1
23	2012.6.26	15.1	6.61	18.0	177	-9.4
24	2012.6.23	12.6	6.13	11.4	201	-9.1
25	2012.6.26	17.2	6.50	16.9	310	-9.4
26	2012.6.23	14.0	6.68	9.3	191	-10.6
27	2012.6.23	15.0	6.61	12.3	156	-10.3
28	2012.6.26	14.5	6.69	15.9	388	-9.9
29	2012.6.26	14.5	6.45	16.0	663	-9.7
30	2012.6.23	13.8	6.13	13.4	236	-9.3
31	2012.6.23	13.1	6.49	22.2	222	-10.2
32	2012.6.26	11.8	7.58	9.0	164	-10.5
33	2012.6.26	14.5	6.10	13.5	249	-8.9
34	2012.6.25	13.1	6.52	9.8	183	-9.3
35	-	-	-	-	-	-
36	2012.6.23	11.8	6.30	9.8	222	-9.7
37	2012.6.23	12.2	7.51	29.5	197	-8.6
38	2012.6.23	12.8	6.14	11.0	257	-8.6
39	2012.6.26	30.5	6.57	86.8	16	-10.3
40	2012.6.26	16.4	7.55	13.3	134	-10.2
41	2012.6.23	14.0	5.97	10.3	304	-8.2
42	2012.6.25	13.2	7.49	15.0	97	-9.0

(e)

2012/8/1						
Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
2	2012.8.1	15.6	7.06	37.8	211	-8.4
4	2012.8.1	16.1	7.19	26.3	235	-9.2
8	2012.8.1	14.1	5.18	14.4	298	-8.4
10	2012.8.1	16.8	6.22	12.8	207	-9.0
14	2012.8.1	15.9	6.92	14.7	168	-9.6
15	2012.8.1	16.1	7.51	12.2	249	-10.3
16	2012.8.1	13.9	7.20	12.5	180	-10.4
20	2012.8.1	15.4	6.03	19.9	245	-9.0
28	2012.8.1	15.2	6.45	16.2	221	-9.5
32	2012.8.1	12.9	7.43	9.0	213	-10.6
34	2012.8.1	14.3	6.15	10.5	191	-9.9

(f)

2012/8/23–8/28						
Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
1	2012.8.23	17.1	7.00	28.9	83	-8.9
2	2012.8.23	15.8	7.07	37.8	187	-8.7
3	2012.8.23	26.1	6.76	10.2	229	-9.1
4	2012.8.23	16.7	7.21	26.5	239	-9.5
5	2012.8.23	15.5	6.44	20.8	256	-9.2
6	2012.8.23	15.8	6.43	19.8	236	-9.4
7	2012.8.23	16.6	6.2	14.9	231	-9.1
8	2012.8.23	14.9	5.14	15.5	291	-8.5
9	2012.8.27	18.8	6.40	11.0	152	-9.8
10	2012.8.27	16.5	6.29	12.9	216	-9.5
11	2012.8.23	14.8	6.73	17.6	217	-9.0
12	2012.8.28	19.7	6.53	14.4	221	-9.5
13	2012.8.28	21.2	6.28	16.2	194	-9.4
14	2012.8.28	15.6	7.10	15.3	228	-10.2
15	2012.8.23	16.1	7.46	12.2	243	-10.6
16	2012.8.23	13.9	7.33	12.3	195	-10.6
17	2012.8.27	14.5	7.05	18.0	233	-10.3
18	2012.8.27	14.2	6.42	16.7	253	-9.8
19	2012.8.27	15.6	6.21	18.3	291	-9.1
20	2012.8.27	15.5	6.12	20.1	264	-9.3
21	2012.8.27	18.2	6.28	16.5	174	-9.3
22	2012.8.27	15.2	6.17	14.1	191	-9.5
23	2012.8.27	16.1	6.42	18.1	166	-9.4
24	2012.8.28	14.1	6.10	11.9	246	-10.2
25	2012.8.28	19.1	6.50	16.6	229	-9.7
26	2012.8.28	16.8	6.65	9.5	264	-10.7
27	2012.8.28	20.5	6.62	12.4	190	-10.3
28	2012.8.27	15.4	6.56	16.2	231	-10.0
29	2012.8.27	17.1	6.35	15.9	703	-9.8
30	2012.8.27	15.7	6.12	11.7	454	-9.9
31	2012.8.27	14.3	6.57	22.3	389	-10.4
32	2012.8.27	12.8	7.66	8.9	325	-11.0
33	2012.8.27	15.8	6.16	13.8	356	-9.4
34	2012.8.28	15.1	6.43	10.5	225	-10.2
35	2012.8.28*	13.7	6.96	8.3	314	-10.8
36	2012.8.28	16.8	6.06	9.5	328	-10.5
37	2012.8.28	14.8	7.43	30.0	71	-8.7
38	2012.8.28	15.6	6.15	10.5	292	-9.1
39	2012.8.28	27.8	6.61	75.0	44	-10.7
40	2012.8.28	16.8	7.55	13.4	138	-10.5
41	2012.8.28	18.5	5.89	10.6	303	-8.9
42	2012.8.23	14.1	7.27	14.9	-85	-9.1

(g)

2012/10/3

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
2	2012.10.3	15	6.81	37.7	223	-8.8
4	2012.10.3	16.4	6.96	26.9	227	-9.4
8	2012.10.3	15.8	4.84	15.7	286	-8.6
10	2012.10.3	18.3	5.86	12.9	248	-9.5
14	2012.10.3	14	6.70	13.8	252	-10.5
15	2012.10.3	15.4	6.91	12.3	228	-10.6
16	-	-	-	-	-	-
20	2012.10.3	15	6.02	20.1	269	-9.1
28	2012.10.3	14.8	6.38	15.9	234	-10.0
32	2012.10.3	12.3	6.91	9.0	196	-10.9
34	2012.10.3	14.3	6.05	10.3	201	-10.3

(h)

2012/10/30–11/1

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
1	2012.10.30	15.6	7.00	29.5	72	-8.9
2	2012.10.30	14.6	7.07	37.8	226	-8.7
3	2012.10.30	16.6	7.10	10.1	185	-8.9
4	2012.10.30	16.2	7.27	26.8	239	-9.4
5	2012.10.30	14.7	6.57	20.3	282	-9.1
6	2012.10.30	15.0	6.58	19.7	283	-9.4
7	2012.10.30	15.0	6.27	14.2	240	-9.6
8	2012.10.30	16.4	5.32	16.3	317	-8.5
9	2012.10.30	14.2	6.49	11.7	178	-9.9
10	2012.10.31	15.6	6.65	13.0	217	-9.1
11	2012.10.30	14.0	6.81	17.6	208	-9.0
12	2012.10.31	15.2	6.62	14.4	222	-9.5
13	2012.10.31	15.0	6.30	15.6	210	-9.4
14	2012.11.1	13.4	7.36	13.6	350	-10.5
15	2012.11.1	14.8	7.39	12.3	280	-10.5
16	2012.11.1	13.1	7.30	15.6	250	-10.4
17	2012.11.1	13.6	7.10	18.0	269	-10.1
18	2012.10.30	13.9	6.44	17.1	286	-9.6
19	2012.11.1	14.3	6.20	17.7	330	-8.9
20	2012.11.1	15.0	6.16	19.9	316	-9.2
21	2012.11.1	14.0	6.35	17.1	224	-9.2
22	2012.11.1	13.6	6.46	13.6	310	-9.5
23	2012.10.30	15.0	6.59	17.9	201	-9.3
24	2012.10.31	14.4	6.11	13.3	238	-9.6
25	2012.10.31	17.4	6.48	17.0	161	-9.6
26	2012.10.31	13.8	6.43	9.4	231	-10.8
27	2012.10.31	15.1	6.55	12.2	162	-10.3
28	2012.10.30	15.0	6.70	16.0	274	-9.9
29	2012.11.1	14.2	6.55	15.7	665	-9.8
30	2012.11.1	15.7	6.14	13.0	293	-10.0
31	2012.11.1	14.0	6.55	21.4	311	-10.3
32	2012.11.1	12.4	7.51	9.0	255	-10.8
33	2012.10.31	15.8	6.20	13.9	300	-9.2
34	2012.10.31	14.8	6.42	10.1	220	-10.5
35	2012.10.31	12.6	7.06	7.7	205	-10.7
36	2012.10.31	17.5	6.20	10.5	274	-10.2
37	2012.10.31	14.6	7.45	30.6	20	-8.6
38	2012.10.31	16.1	6.08	11.4	275	-9.1
39	2012.11.1	23.0	6.60	91.4	30	-10.5
40	2012.11.1	14.2	7.35	13.4	265	-10.5
41	2012.10.31	18.0	5.97	10.7	268	-8.8
42	2012.10.30	14.0	7.33	15.0	-74	-9.1

(i)

2012/12/13–12/21

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
1	2012.12.13	13.0	7.25	29.8	143	-8.8
2	2012.12.13	13.7	7.32	38.1	163	-8.6
3	2012.12.13	6.0	6.56	10.9	185	-8.9
4	2012.12.13	14.6	7.34	27.4	183	-9.2
5	2012.12.13	14.0	6.53	22.3	220	-9.0
6	2012.12.13	14.4	6.55	20.1	206	-9.3
7	2012.12.13	12.4	6.29	13.8	230	-9.7
8	2012.12.13	16.0	5.19	14.3	272	-8.6
9	2012.12.21	12.5	6.58	12.6	234	-9.5
10	2012.12.21	8.5	6.69	13.3	238	-9.3
11	2012.12.14	13.7	6.90	17.6	242	-9.0
12	2012.12.19	14.3	6.30	14.3	262	-9.4
13	2012.12.19	14.0	6.38	16.1	224	-9.3
14	2012.12.14	11.8	7.28	14.2	194	-10.3
15	2012.12.13	14.0	7.44	12.5	204	-10.5
16	2012.12.13	13.7	7.41	17.5	176	-10.3
17	2012.12.20	13.0	7.13	18.2	202	-10.2
18	2012.12.20	13.6	6.55	17.2	227	-9.7
19	2012.12.21	13.7	6.28	18.6	244	-9.0
20	2012.12.21	14.4	6.38	19.3	240	-9.2
21	2012.12.21	12.5	6.55	17.3	210	-9.2
22	2012.12.21	13.3	6.42	13.6	242	-9.4
23	2012.12.21	13.4	6.75	18.1	224	-9.3
24	2012.12.19	14.6	6.08	15.1	252	-9.1
25	2012.12.19	13.4	6.58	16.7	236	-9.6
26	2012.12.19	11.6	6.77	10.6	226	-10.6
27	2012.12.19	10.6	6.52	12.6	237	-10.3
28	2012.12.21	13.7	6.83	16.2	243	-9.9
29	2012.12.19	13.7	6.44	15.7	244	-9.8
30	2012.12.21	13.7	6.35	14.3	291	-9.8
31	2012.12.21	14.0	6.78	20.9	225	-10.4
32	2012.12.19	12.4	7.50	9.1	206	-10.7
33	2012.12.19	14.6	6.18	13.8	233	-9.1
34	2012.12.19	14.0	6.61	11.8	212	-10.1
35	2012.12.19	12.1	7.06	8.0	197	-10.9
36	2012.12.19	14.5	6.26	10.8	259	-9.7
37	2012.12.19	12.0	7.50	30.7	223	-8.6
38	2012.12.19	15.7	6.10	11.6	273	-9.0
39	2012.12.20	17.0	6.81	65.0	75	-10.5
40	2012.12.14	13.6	7.69	13.5	174	-10.5
41	2012.12.19	9.4	6.11	9.1	271	-8.6
42	2012.12.13	12.0	7.31	15.1	-44	-9.0

(j)

2013/1/31

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
2	2013.1.31	13.7	7.11	38.1	166	-8.6
4	2013.1.31	12.7	7.29	26.4	222	-9.3
8	2013.1.31	14.3	5.39	13.6	291	-8.5
10	2013.1.31	9	6.63	13.3	266	-9.2
14	2013.1.31	11.4	7.11	14.7	160	-10.2
15	2013.1.31	14.4	7.22	13.2	131	-10.4
16	2013.1.31	13	7.32	15.9	116	-10.2
20	2013.1.31	14.4	6.25	20.5	241	-9.1
28	2013.1.31	13.9	6.71	16.6	220	-9.8
32	2013.1.31	12.4	7.39	9.0	224	-10.8
34	2013.1.31	13	6.20	11.7	218	-10.2

(k)

2013/3/5—3/8

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
1	2013.3.6	14.1	7.28	30.2	170	-8.7
2	2013.3.6	13.0	7.23	38.3	208	-8.7
3	2013.3.6	5.5	7.27	10.7	235	-9.0
4	2013.3.6	12.2	7.39	26.5	200	-9.3
5	2013.3.6	14.6	6.64	21.9	244	-9.0
6	2013.3.6	14.7	6.65	20.0	250	-9.4
7	2013.3.5	10.8	6.36	14.7	245	-9.6
8	2013.3.6	13.0	5.40	13.0	285	-8.6
9	2013.3.5	13.1	6.45	13.8	264	-9.2
10	2013.3.5	9.4	6.45	13.3	296	-9.4
11	2013.3.6	13.6	6.90	16.8	245	-9.1
12	2013.3.8	15.0	6.55	14.2	260	-9.4
13	2013.3.8	15.0	6.42	16.0	180	-9.4
14	2013.3.8	12.5	7.33	14.0	225	-10.3
15	2013.3.5	14.5	7.46	13.4	263	-10.5
16	2013.3.6	13.1	7.58	15.9	235	-10.3
17	2013.3.5	13.4	7.38	18.2	222	-10.1
18	2013.3.5	13.9	6.57	17.1	277	-9.6
19	2013.3.5	14.3	6.30	18.1	270	-9.0
20	2013.3.5	14.5	6.28	20.5	265	-9.2
21	2013.3.5	13.6	6.41	17.5	219	-9.1
22	2013.3.5	13.6	6.35	13.4	250	-9.6
23	2013.3.5	14.0	6.51	18.1	248	-9.2
24	2013.3.8	14.0	6.17	15.4	226	-9.2
25	2013.3.8	16.0	6.52	16.7	191	-9.6
26	2013.3.5	12.0	6.70	10.6	270	-10.4
27	2013.3.5	10.4	6.87	12.8	213	-10.3
28	2013.3.5	13.4	6.49	16.6	478	-9.9
29	2013.3.5	13.7	6.51	15.9	663	-9.8
30	2013.3.5	15.4	6.16	15.3	250	-9.5
31	2013.3.8	14.0	6.67	20.0	241	-10.5
32	2013.3.8	12.3	7.69	9.0	209	-10.8
33	2013.3.8	14.4	6.22	13.9	291	-9.1
34	2013.3.8	13.0	6.45	11.0	220	-10.3
35	2013.3.8	12.7	7.05	8.2	268	-10.7
36	2013.3.8	11.0	6.40	10.7	280	-9.8
37	2013.3.8	10.5	7.55	30.0	238	-8.7
38	2013.3.8	12.2	6.17	12.0	300	-9.0
39	2013.3.5	15.9	6.74	104	-210	-10.6
40	2013.3.5	14.1	7.61	13.5	191	-10.4
41	2013.3.6	9.0	6.03	10.7	299	-9.1
42	-	-	-	-	-	-

Table 3

Locality No.	Sampling date	Temp °C	pH	EC mS/m	ORP mV	$\delta^{18}\text{O}$ ‰
SR1-Mar	2012.3.28	6.1	7.28	7.6	111	-10.6
SR2-Mar	2012.3.28	5.1	7.60	7.2	141	-10.6
OR1-Mar	2012.3.28	10.1	8.05	14.9	132	-9.1
OR2-Mar	2012.3.28	7.7	7.87	7.4	133	-9.4
SR1-Apr	2012.4.25	16.5	7.65	7.1	147	-10.6
SR2-Apr	2012.4.25	9.4	8.06	6.3	85	-10.7
OR1-Apr	2012.4.25	16.5	8.27	10.8	141	-9.5
OR2-Apr	2012.4.25	15.0	7.59	6.7	147	-9.5
SR1-May	2012.5.29	15.7	7.68	7.0	180	-10.7
SR2-May	2012.5.29	-	7.33	7.1	167	-10.5
OR1-May	2012.5.29	17.3	7.64	10.8	213	-9.6
OR2-May	2012.5.29	17.5	7.36	8.4	226	-9.3
SR1-Jun	2012.6.25	16.7	7.44	7.3	191	-10.6
SR2-Jun	2012.6.25	16.6	7.85	8.0	146	-11.0
OR1-Jun	2012.6.25	18.0	7.35	10.7	183	-9.9
OR2-Jun	2012.6.25	20.7	8.78	7.7	121	-10.0
SR1-Aug-1	2012.8.1	23.9	7.58	7.2	195	-10.9
SR2-Aug-1	2012.8.1	21.1	7.28	6.6	217	-10.9
OR1-Aug-1	2012.8.1	26.7	7.72	12.7	219	-9.6
OR2-Aug-1	2012.8.1	31.8	8.70	9.4	133	-9.8
SR1-Aug-2	2012.8.23	23.8	7.53	6.9	232	-11.1
SR2-Aug-2	2012.8.23	20.1	7.33	6.2	193	-11.2
OR1-Aug-2	2012.8.23	25.1	7.37	11.0	215	-9.8
OR2-Aug-2	2012.8.23	27.5	8.76	8.1	136	-9.8
SR1-Oct-1	2012.10.3	19.3	6.81	7.6	270	-11.0
SR2-Oct-1	2012.10.3	19.3	7.08	12.0	213	-10.2
OR1-Oct-1	2012.10.3	19.7	6.89	13.3	260	-9.8
OR2-Oct-1	2012.10.3	20.4	6.86	9.8	208	-10.0
SR1-Oct-2	2012.10.30	14.7	7.50	8.7	210	-10.9
SR2-Oct-2	2012.10.31	14.3	7.52	15.6	211	-10.0
OR1-Oct-2	2012.10.30	14.0	7.35	13.7	207	-9.6
OR2-Oct-2	2012.10.30	15.5	6.89	10.5	210	-9.3
SR1-Dec	2012.12.14	7.2	7.45	9.2	186	-10.6
SR2-Dec	2012.12.14	7.6	8.19	12.7	171	-10.3
OR1-Dec	2012.12.13	7.0	7.56	14.3	156	-9.5
OR2-Dec	2012.12.13	8.6	7.43	10.4	232	-9.4
SR1-Jan	2013.1.31	3.7	7.50	8.0	157	-10.6
SR2-Jan	2013.1.31	6.9	7.60	9.6	201	-10.5
OR1-Jan	2013.1.31	5.5	7.30	13.7	165	-9.6
OR2-Jan	2013.1.31	5.6	7.46	10.4	211	-9.4
SR1-Mar	2013.3.6	3.7	7.76	8.8	218	-10.6
SR2-Mar	2013.3.6	4.7	7.86	8.5	216	-10.7
OR1-Mar	2013.3.6	5.4	7.68	12.3	220	-9.5
OR2-Mar	2013.3.6	11.0	7.59	11.0	221	-9.2