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*Supplement of*

## **Acquisition of isotopic composition for surface snow in East Antarctica and the links to climatic parameters**

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Table S1

<b>Terra Nova Bay - DOME C</b>				
$\delta^{18}\text{O}$	$^{17}\text{O-ex}$	SD $^{17}\text{O-ex}$	$\delta^{18}\text{O}$	d-ex
-51	51	2	-52.11	8.4
-50.7	33	6	-51.73	7.3
-50.4	35	8	-52.12	7.8
-49.6	32	9	-50.30	7
-49.1	42	5	-50.67	5.9
-49	47	5	-50.67	5.9
-49	49	6	-48.59	7.65
-47.4	50	5	-48.31	6.7
-47.2	46	9	-46.79	6.6
-44.9	46	6	-46.91	6.5
-44.7	58	1	-45.71	3.3
-44.4	35	6	-44.77	3.2
-43.3	48	4	-44.35	3.5
-43.2	41	9	-42.69	3.5
-41.7	58	6	-38.23	1
-41.2	34	8	-40.29	6.35
-39.6	55	6	-39.51	1.55
-39.5	44	7	-42.13	4.7
-38.8	32	10	-38.45	1.7
-37.5	54	8	-40.17	2.1
-36.9	50	7	-36.42	2.2
-36.1	33	7	-36.88	2.27
-35	53	8	-51.68	12.5
-34.3	50	6	-27.58	4
-32	57	2	-31.96	3.8
-31	29	5	-22.13	5
-30.7	43	8	-30.24	2.7
-30.4	45	2	-27.98	2.4
-28.2	40	0	-22.23	3.4

Table S2

<b>Syowa - DOME FUJI</b>			
$\delta^{18}\text{O}$	$^{17}\text{O-ex}$	SD $^{17}\text{O-ex}$	d-ex
-30.20	31.3	5	5
-32.43	25.5	14	4
-35.70	37.3	11	4
-35.49	43.8	8	11
-37.29	40.2	2	6
-42.96	20.2	14	3
-40.11	36.0	4	9
-38.60	23.2	10	1
-44.45	31.1	1	8
-46.63	29.2	3	7
-48.83	27.4	8	6
-43.36	15.4	0	9
-50.54	29.8	11	8
-49.45	25.5	0	11
-52.32	27.0	4	13
-48.16	24.8	5	11
-51.86	20.4	6	10
-51.44	18.4	7	13
-52.54	7.9	4	12
-49.48	21.9	1	11
-54.61	10.9	6	15
-52.97	26.5	7	14
-51.80	16.0	3	12
-53.49	27.6	0	14
-52.64	30.1	2	13
-54.66	18.8	3	13
-56.69	28.5	1	17
-55.47	18.9	0	14
-56.40	6.1	6	16

Table S3

<b>Zhongshan - DOME A</b>			
$\delta^{18}\text{O}$	$^{17}\text{O-ex}$	$\delta^{18}\text{O}$	d-ex
-17.6	48	-17.6	3.74
-25.63	31	-19.25	8.69
-23.07	51	-19.31	12.31
-38.93	40	-20.35	8.93
-30.69	49	-18.7	6.69
-41.92	26	-19.86	8.96
-30.28	22	-21.91	9.01
-27.3	34	-24.15	10.46
-43.54	37	-37.81	7.29
-38.01	32	-25.63	3.49
-36.52	43	-32.21	7.2
-38.2	36	-25.23	3.57
-29.68	50	-34.53	3.71
-38.6	38	-23.07	6.23
-47.41	31	-24.41	7.11
-40.6	31	-26.19	6.56
-42.81	14	-31.81	4.09
-44.04	31	-25.43	9.5
-33.44	35	-38.93	2.3
-52.65	27	-35.85	10.57
-54.21	40	-36.37	2.02
-55.59	26	-30.69	4.16
-57.85	9	-41.92	0.77
-58.69	28	-39.96	1.2
-18.7	49	-30.28	0.98
-49.61	40	-27.3	10.87
-51.59	44	-43.54	5.02
-49.99	24	-38.01	2.45
-54.49	44	-36.52	4.57
-52.81	40	-38.2	6.78
-47.62	35	-29.68	7.32
		-38.6	3.72
		-47.41	6.42
		-40.6	0.95
		-42.81	4.11
		-44.04	3.32
		-33.44	9.8
		-52.65	8.92
		-54.21	32.52
		-55.59	23.29
		-57.85	25.4
		-58.69	18.97

Table S4

<b>VOSTOK – Snow in the precipitation</b>					
date	Temperature	Sample kind	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
<b>16/12/1999</b>	<b>-37.3</b>	<b>B</b>	<b>-58.5</b>	25	<b>27</b>
<b>18/12/1999</b>	<b>-32.2</b>	<b>B</b>	<b>-54.7</b>	18	<b>32</b>
<b>20/12/1999</b>	<b>-34.1</b>	<b>B</b>	<b>-55.3</b>	19	<b>38</b>
<b>23/12/1999</b>	<b>-31.2</b>	<b>B</b>	<b>-52.7</b>	15	<b>24</b>
<b>26/12/1999</b>	<b>-32.2</b>	<b>B</b>	<b>-55.3</b>	12	<b>23</b>
<b>05/01/2000</b>	<b>-31.2</b>	<b>B</b>	<b>-54.3</b>	8	<b>11</b>
<b>13/01/2000</b>	<b>-32.9</b>	<b>B</b>	<b>-55.9</b>	14	<b>15</b>
<b>16/01/2000</b>	<b>-32.3</b>	<b>B</b>	<b>-55.6</b>	12	<b>26</b>
<b>25/01/2000</b>	<b>-34.2</b>	<b>B</b>	<b>-52.6</b>	13	<b>20</b>
<b>27/01/2000</b>	<b>NA</b>	<b>B</b>	<b>-53.3</b>	14	<b>10</b>
<b>06/02/2000</b>	<b>-38.0</b>	<b>B</b>	<b>-53.5</b>	17	<b>32</b>
29/02/2000	-49.1	A	-55.7	17	12
30/03/2000	-63.1	A	-55.6	15	25
09/04/2000	-62.1	A	-66	20	-10
13/04/2000	-59.2	A	-62.8	19	-6
23/04/2000	-72.3	A	-63.6	20	-7
09/05/2000	-67.0	A	-67.1	24	-15
18/05/2000	-65.8	A	-62.4	9	-13
30/05/2000	-52.9	A	-57.3	20	23
13/06/2000	-56.0	A	-62.7	27	-14
26/06/2000	-51.6	A	-58.8	9	11
01/08/2000	-75.5	A	-68.5	27	-27
11/08/2000	-58.1	A	-64	24	1
19/08/2000	-50.3	A	-61	16	-7
05/09/2000	-43.9	A	-56	15	1
05/10/2000	-67.7	A	-62.6	16	-13
11/10/2000	-57.3	A	-50.5	5	29
09/04/2000	N.A.	A-LSCE	-64.51	N.A.	-4.88
09/05/2000	N.A.	A-LSCE	-65.22	N.A.	-10.08
30/05/2000	N.A.	A-LSCE	-56.15	N.A.	31.34
11/08/2000	N.A.	A-LSCE	-62.34	N.A.	12.14
05/09/2000	N.A.	A-LSCE	-54.64	N.A.	6.98
11/10/2000	N.A.	A-LSCE	-49.92	N.A.	29.99

Table S5

<b>DOME C – Snow in the precipitation</b>					
date	Temperature	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex	SD $^{17}\text{O}$ -ex
09/01/2010	-23.4	-46.42	6.4	35	2
11/01/2010	-24.2	-43.26	2.5	5	3
18/01/2010	-27.7	-49.96	8.2	34	1
19/01/2010	-26.8	-44.44	-8.0	12	4
26/02/2010	-43.0	-46.32	9.8	38	6
26/02/2010	-43.0	-46.32	9.8	43	1
27/02/2010	-44.6	-52.3	14.6	45	5
10/03/2010	-54.6	-54.66	17.7	47	9
11/03/2010	-51.2	-56.66	19.1	35	3
08/04/2010	-60.9	-56.25	24.7	37	1
09/04/2010	-54.0	-55.77	18.8	28	3
16/04/2010	-71.2	-66.26	28.2	3	2
17/04/2010	-73.8	-62.22	25.9	12	1
15/05/2010	-70.4	-65.35	30.4	16	4
17/05/2010	-72.8	-67.51	43.9	24	1
02/06/2010	-63.2	-67.32	34.6	26	5
03/06/2010	-57.7	-62.29	17.7	-1	7
13/07/2010	-56.9	-67.25	29.8	1	3
31/07/2010	-75.3	-69.63	34.7	1	3
23/08/2010	-63.2	-57.57	14.8	16	0
24/08/2010	-72.7	-58.45	19.4	38	5
12/09/2010	-63.0	-60.21	14.2	8	3
13/09/2010	-60.2	-54.21	4.3	-9	0
16/10/2010	-47.1	-54.3	1.4	-3	1
24/10/2010	-49.5	-52.53	0.5	15	1
25/10/2010	-48.5	-54.94	4.5	18	7
12/11/2010	-35.1	-45.09	-14.1	3	1
13/11/2010	-31.0	-38.89	-25.7	-11	3

Table S6

<b>DOME C – Surface snow</b>				
Date	Temperature	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
03/12/2010	-43.6	-53.96	14.0	34
10/12/2010	-23.9	-50.37	7.7	31
17/12/2010	-30.1	-48.70	9.2	27
24/12/2010	-28.7	-48.89	12.3	28
31/12/2010	-26.8	-50.12	5.8	22
14/01/2011	-34.2	-48.35	12.8	35
21/01/2011	-35.2	-48.46	16.6	46
04/02/2011	-38.8	-50.19	22.1	39
25/02/2011	-42.2	-51.94	15.6	45
05/03/2011	-57.6	-52.52	15.6	37
13/03/2011	-60.0	-51.95	15.2	20
18/03/2011	-60.8	-53.32	14.3	32
25/03/2011	-37.7	-48.19	18.3	47
01/04/2011	-62.8	-53.16	18.3	22
08/04/2011	-67.5	-51.83	17.5	30
15/04/2011	-58.3	-51.63	18.2	34
23/04/2011	-52.1	-53.71	18.8	46
29/04/2011	-65.1	-52.37	17.6	43
07/05/2011	-60.4	-59.72	27.1	22
13/05/2011	-60.2	-54.08	12.2	16
20/05/2011	-58.1	-53.64	15.0	36
27/05/2011	-69.6	-59.21	17.9	14
04/06/2011	-68.5	-56.33	16.7	28
11/06/2011	-61.2	-57.61	13.7	32
17/06/2011	-53.3	-58.17	18.6	28
25/06/2011	-67.5	-57.53	19.5	20
01/07/2011	-65.1	-57.22	16.7	28
08/07/2011	-57.4	-56.28	16.4	33
17/07/2011	-63.0	-59.90	23.3	30
22/07/2011	-42.4	-50.63	11.7	24
29/07/2011	-65.8	-54.93	15.6	29
05/08/2011	-49.0	-49.95	14.1	46
12/08/2011	-61.5	-56.44	18.8	23
19/08/2011	-62.5	-53.84	12.8	34
26/08/2011	-55.0	-55.98	12.6	40
03/09/2011	-67.1	-56.61	14.3	39
09/09/2011	-69.9	-50.83	9.5	33
16/09/2011	-49.8	-57.29	11.8	33
24/09/2011	-61.3	-61.35	19.2	26



30/09/2011	-55.9	-55.89	15.7	20
07/10/2011	-51.7	-56.26	13.7	34
14/10/2011	-45.7	-57.17	13.1	39
21/10/2011	-60.0	-58.07	11.9	29
28/10/2011	-51.1	-60.81	20.3	38
05/11/2011	-49.3	-54.39	17.7	34
11/11/2011	-43.3	-54.68	13.0	23
17/11/2011	-38.6	-55.08	8.7	25
25/11/2011	-33.8	-54.56	8.0	29
03/12/2011	-32.4	-53.77	13.7	41
09/12/2011	-32.1	-53.33	14.3	38

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Table S7					VOSTOK – snow pit				
n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex	n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
1	1.5	-56.08	5.7	21	40	118.5	-57.94	16.7	36
2	4.5	-59.07	16.3	35	41	121.5	-57.36	13.0	33
3	7.5	-59.56	18.3	22	42	124.5	-59.40	16.0	43
4	10.5	-59.30	18.0	33	43	127.5	-58.15	16.4	24
5	13.5	-59.52	22.2	31	44	130.5	-55.91	18.0	14
6	16.5	-57.66	21.5	39	45	133.5	-55.06	17.5	7
7	19.5	-52.06	16.2	27	46	136.5	-56.06	16.3	25
8	22.5	-50.98	11.8	37	47	139.5	-57.27	15.8	38
9	25.5	-53.42	12.0	36	48	142.5	-57.32	17.5	29
10	28.5	-55.39	15.1	29	49	145.5	-57.02	18.2	15
11	31.5	-54.24	14.6	26	50	148.5	-56.89	17.5	21
12	34.5	-53.13	13.3	34	51	151.5	-57.25	15.6	19
13	37.5	-55.93	16.1	33	52	154.5	-57.56	17.6	32
14	40.5	-58.26	16.9	35	53	157.5	-57.49	18.2	27
15	43.5	-60.68	19.5	44	54	160.5	-57.38	18.1	25
16	46.5	-58.84	17.9	28	55	163.5	-57.30	16.6	26
17	49.5	-55.30	15.8	33	56	166.5	-57.62	17.2	30
18	52.5	-55.37	15.8	33	57	169.5	-57.86	17.8	20
19	55.5	-55.66	16.1	43	58	172.5	-57.88	17.3	27
20	58.5	-53.66	15.0	N.A.	59	175.5	-57.73	17.7	21
21	61.5	-53.56	14.8	19	59B	175.5	N.A.	N.A.	26
22	64.5	-54.42	12.6	20	60	178.5	-57.51	15.6	13
23	67.5	-57.34	12.6	41	61	181.5	-59.79	15.6	28
24	70.5	-56.23	11.5	23	62	184.5	-59.67	16.6	38
25	73.5	-51.65	7.0	45	63	187.5	-58.73	17.7	11
26	76.5	-50.58	14.0	24	64	190.5	-58.33	18.4	11
27	79.5	-50.00	15.6	22	65	193.5	-58.41	17.7	18
28	82.5	-52.50	13.3	30	66	196.5	-58.76	17.1	11
29	85.5	-54.94	11.5	30	67	199.5	-59.49	17.0	22
30	88.5	-57.97	15.9	36	68	202.5	-60.19	16.6	27
31	91.5	-59.55	17.7	42	69	205.5	-59.89	16.9	26
32	94.5	-59.01	18.6	31	70	208.5	-58.66	15.6	10
33	97.5	-56.81	21.1	28	70B	208.5	N.A.	N.A.	11
34	100.5	-56.17	20.3	26	71	211.5	-57.08	14.5	19
35	103.5	-56.00	16.8	35	72	214.5	-55.28	13.6	12
36	106.5	-55.15	15.6	13	73	217.5	-54.11	15.1	6
37	109.5	-55.24	15.9	21	74	220.5	-53.69	16.5	19
38	112.5	-56.30	15.1	33	75	223.5	-53.53	14.5	1
39	115.5	-57.02	14.9	30	76	226.5	-56.62	15.0	28

VOSTOK – snow pit					VOSTOK – snow pit				
n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex	n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
77	229.5	-57.71	16.4	35	115	343.5	-56.14	13.3	29
78	232.5	-58.09	17.5	31	116	346.5	-55.20	16.0	N.A.
78B	232.5	N.A.	N.A.	25	117	349.5	-54.48	17.9	N.A.
79	235.5	-58.57	18.1	14	118	352.5	-55.07	17.9	N.A.
80	238.5	-59.37	18.6	32	119	355.5	-55.91	17.0	N.A.
81	241.5	-59.24	18.6	26	120	358.5	-56.80	16.3	N.A.
82	244.5	-58.36	19.3	30	121	361.5	-57.69	15.1	N.A.
83	247.5	-57.36	18.1	16	122	364.5	-58.80	12.3	N.A.
84	250.5	-56.87	18.5	28	123	367.5	-57.87	12.6	N.A.
85	253.5	-57.04	18.7	30	124	387.5	N.A.	N.A.	20
86	256.5	-56.78	17.9	23					
87	259.5	-56.54	17.0	29					
88	262.5	-56.57	16.5	23					
89	265.5	-56.88	15.6	40					
90	268.5	-57.12	14.8	21					
91	271.5	-57.83	16.8	24					
92	274.5	-58.30	17.1	28					
93	277.5	-58.71	18.1	20					
94	280.5	-59.12	18.7	27					
95	283.5	-58.95	18.5	28					
96	286.5	-58.45	16.3	16					
97	289.5	-58.60	16.4	20					
98	292.5	-58.86	15.7	33					
99	295.5	-59.30	14.9	26					
100	298.5	-60.26	16.2	25					
101	301.5	-60.54	14.8	24					
102	304.5	-60.63	16.4	33					
103	307.5	-60.35	16.2	N.A.					
104	310.5	-60.33	16.5	31					
105	313.5	-60.35	16.9	19					
106	316.5	-60.14	17.7	20					
107	319.5	-59.06	14.9	16					
108	322.5	-57.58	14.6	17					
109	325.5	-55.69	15.8	19					
110	328.5	-54.54	15.5	10					
111	331.5	-55.04	14.3	N.A.					
112	334.5	-56.44	12.8	32					
113	337.5	-56.81	11.0	35					
114	340.5	-56.98	12.2	N.A.					

<b>Table S8</b>					<b>S2 – snow pit</b>				
n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex	n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
1	1.5	-52.03	7.9	31	40	118.5	-55.71	12.9	36
2	4.5	-58.34	17.5	37	41	118.5	-55.71	13.2	0
3	7.5	-59.25	17.3	28	42	121.5	-55.79	14.0	32
4	10.5	-59.05	16.9	13	43	124.5	-55.59	14.0	27
5	13.5	-58.73	18.0	13	44	127.5	-55.48	13.0	25
6	16.5	-57.74	16.3	24	45	130.5	-54.91	13.0	24
7	19.5	-57.31	16.6	32	46	133.5	-54.05	12.5	18
8	22.5	-57.81	17.9	30	47	136.5	-53.44	11.1	29
9	25.5	-55.28	13.4	23	48	139.5	-53.77	12.7	20
10	28.5	-51.04	6.3	23	49	142.5	-55.04	12.9	33
11	31.5	-48.84	3.7	22	50	145.5	-56.19	12.1	38
12	34.5	-48.60	3.1	41	51	148.5	-55.62	11.7	24
13	37.5	-48.73	3.8	45	52	151.5	-55.12	12.7	31
14	40.5	-48.87	4.2	47	53	154.5	-54.35	12.2	20
15	43.5	-49.98	4.6	30	54	157.5	-53.79	10.3	23
16	46.5	-53.43	7.9	49	55	160.5	-54.14	12.3	26
17	49.5	-53.69	9.1	35	56	163.5	-54.80	16.0	32
18	52.5	-54.58	10.7	31	57	166.5	-55.11	17.2	31
19	55.5	-55.68	13.4	41	58	169.5	-55.36	17.6	18
20	58.5	-55.40	13.1	38	59	172.5	-55.41	18	25
21	61.5	-54.75	13.4	36	60	175.5	-55.85	16.5	17
22	64.5	-54.73	12.5	46	61	178.5	-56.60	16.0	26
23	67.5	-54.01	12.5	48	62	181.5	-57.09	16.1	43
24	70.5	-51.66	12.2	31	63	184.5	-57.00	15.6	39
25	73.5	-49.66	11.6	11	64	187.5	-56.60	15.1	44
26	76.5	-50.13	10.3	12	65	190.5	-55.45	13.9	24
27	79.5	-53.44	11.8	39	66	193.5	-54.05	12.5	20
28	82.5	-55.58	12.9	43	67	196.5	-53.28	14.1	36
29	85.5	-56.75	15.6	49	68	199.5	-51.63	13.5	40
30	88.5	-56.59	15.1	43	69	202.5	-50.38	12.7	17
31	91.5	-55.62	13.4	31	70	205.5	-49.45	11.8	17
32	94.5	-54.42	14.1	26	71	208.5	-50.62	11	26
33	97.5	-54.25	14.3	15	72	211.5	-50.69	9.8	28
34	100.5	-55.28	14.2	31	73	214.5	-51.54	9.3	29
35	103.5	-55.13	14.8	39	74	217.5	-52.03	10.1	37
36	106.5	-54.44	13.6	34	75	220.5	-52.48	11.1	31
37	109.5	-54.18	11.5	29	76	223.5	-52.63	11.0	39
38	112.5	-54.60	11.0	27	77	226.5	-52.90	10.3	29
39	115.5	-55.27	11.5	37	78	229.5	-54.33	11.3	42

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<b>S2 – snow pit</b>				
n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
79	232.5	-54.47	13.3	36
80	235.5	-54.56	13	35
81	238.5	-54.00	13.3	27
82	241.5	-53.78	13.0	31
83	244.5	-52.90	12.5	23
84	247.5	-51.70	12.7	33
85	250.5	-50.70	10.3	18
86	253.5	-51.48	11.9	38
87	256.5	-51.91	10.4	42
88	259.5	-50.52	9.4	46
89	262.5	-49.45	9.2	35
90	265.5	-50.79	10.3	27
91	265.5	-50.76	10.5	N.A.
92	268.5	-52.03	11.5	40
93	271.5	-52.10	10.0	40
94	274.5	-52.43	9.6	44
95	277.5	-53.36	12.4	27
96	280.5	-53.47	12.4	33
97	283.5	-53.54	12.5	20
98	286.5	-53.14	10.7	16
99	289.5	-53.58	12.7	43
100	292.5	-53.04	10.8	38
101	295.5	-53.33	11.3	38
102	298.5	-52.97	10.7	36

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<b>Table S9</b>					<b>DOME C – snow pit</b>				
n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex	n°	Depth	$\delta^{18}\text{O}$	d-ex	$^{17}\text{O}$ -ex
1	1.5	-54.57	9.2	37	40	118.5	-51.76	7.7	24
2	4.5	-55.31	12.1	31	41	121.5	-51.52	8.6	33
3	7.5	-55.29	12.9	33	42	124.5	-51.42	7.7	32
4	10.5	-52.86	14.9	22	43	127.5	-51.20	8.2	21
5	13.5	-49.36	6.3	43	44	130.5	-50.72	7.7	19
6	16.5	-49.83	9.0	41	45	133.5	-50.70	8.7	41
7	19.5	-51.55	11.8	32	46	136.5	-50.80	9.2	38
8	22.5	-51.24	9.1	37	47	139.5	-50.80	10.0	25
9	25.5	-50.65	5.0	41	48	142.5	-50.75	10.0	29
10	28.5	-50.58	4.4	25	49	145.5	-50.73	9.7	31
11	31.5	-51.87	11.3	32	50	148.5	-50.77	8.7	21
12	34.5	-51.94	12.5	42	51	151.5	-50.97	9.1	35
13	37.5	-51.68	10.4	28	52	154.5	-51.24	9.6	25
14	40.5	-49.33	10.2	21	53	157.5	-50.45	7.9	37
15	43.5	-49.78	10.8	37	54	160.5	-50.45	9.4	39
16	46.5	-50.11	10.9	29	55	163.5	-48.38	9.4	24
17	49.5	-49.84	9.9	43	56	166.5	-48.46	9.0	20
18	52.5	-49.42	8.9	34	57	169.5	-48.98	6.3	24
19	55.5	-49.34	8.2	35	58	172.5	-50.14	7.2	17
20	58.5	-51.57	8.7	41	59	175.5	-51.34	7	36
21	61.5	-51.39	9.2	47	60	178.5	-52.99	8.7	44
22	64.5	-50.40	9.6	35	61	181.5	-53.62	9.8	42
23	67.5	-47.98	9.6	47	62	184.5	-54.07	10.3	37
24	70.5	-47.31	10.2	31	63	187.5	-53.33	9.0	18
25	73.5	-46.06	9.3	26	64	190.5	-52.96	9.2	22
26	76.5	-47.47	10.1	36	65	193.5	-53.25	9.8	27
27	79.5	-50.81	4.7	51	66	196.5	-52.38	11.0	24
28	82.5	-52.23	7.3	N.A.	67	199.5	-50.21	10.7	25
29	85.5	-52.15	9.7	35					
30	88.5	-51.69	6.7	36					
31	91.5	-51.25	5.7	27					
32	94.5	-51.51	9.0	24					
33	97.5	-51.74	9.2	19					
34	100.5	-51.99	7.6	33					
35	103.5	-52.45	9.4	31					
36	106.5	-52.84	10.7	20					
37	109.5	-52.45	9.2	29					
38	112.5	-51.91	7.2	30					
39	115.5	-52.22	7.8	40					