

McMurdo Station Daily Observation Worksheet

Date: 01

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)							
	Zulu	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br		hrs	bs	hrs	Spd	Dir	Time			Spd	Dir	Time		<500	<1000	<3000				
12-15Z			0	-4.2	-2.8	-4.2									6	320	1204	7	320	1204	0				29.38							
15-18Z	120		4	-3.3	-2.2	-6.8									9	100	1725	11	100	1725	1				29.40							
18-21Z	60		9	-4.9	-3.0	-6.6									14	60	1957	16	50	1957	1				29.43							
21-24Z	90		7	-3.9	-3.6	-5.3									12	80	2137	15	100	2226	1				29.46							
12 hr Max/Min				-2.2	-6.8																											
00-03Z	110		8	-3.9	-3.9	-4.8									10	100	140	13	110	205	1				29.47							
03-06Z	90		7	-3.6	-3.3	-4.7									10	110	525	12	100	458	2				29.48							
06-09Z	100		7	-5.2	-3.4	-5.3									11	80	722	14	90	722	2				29.50							
09-12Z	100		10	-6.4	-5.4	-6.6									10	110	1057	14	110	1111	2				29.51							
12 hr Max/Min				-3.3	-6.6																											
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)										
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000						
94	7	-2.2	-6.8	-4.5	00-06L	0	0	0			0	0	0	0.00	60	14	1957	50	16	1957	1		00-06L	0	0	0						
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff												
															Max	Min	Avg															
															29.51	29.38	29.45	7	0.13	4.6												
																					06-12L	0	0	0	12-18L	0	0	0	18-24L	0	0	0

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

McMurdo Station Daily Observation Worksheet

Date: 02

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	140	4	-4.7	-5.4	-6.6										10	100	1217	13	120	1217	2				29.52	
15-18Z	90	6	-5.1	-2.4	-7.8										7	100	1750	10	90	1749	2				29.53	
18-21Z	80	5	-4.6	-4.1	-6.6										8	100	1759	10	100	1758	4				29.53	
21-24Z	40	8	-4.2	-4.0	-5.1										10	40	2325	13	40	2205	5	100			29.52	
12 hr Max/Min				-2.4	-7.8																					
00-03Z	30	9	-4.0	-3.5	-4.3										11	40	210	13	40	234	2				29.51	
03-06Z	30	8	-3.8	-3.8	-4.8										12	30	522	15	30	521	0				29.50	
06-09Z		0	-2.7	-0.6	-3.8										7	300	619	10	310	618	0				29.49	
09-12Z	300	6	-4.1	-1.6	-4.2										7	310	1044	9	310	1141	0				29.47	
12 hr Max/Min				-0.6	-4.8																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
45	6	-0.6	-7.8	-4.2	00-06L	0	0	0	-18.0	0.0	0	0	0	0.00	30	12	522	30	15	521	2	100	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Obs	Pres	Temp										
					18-24L	0	0	0						Max	Min	Avg	Diff	Diff	Diff							
														29.53	29.47	29.51	7	0.06	7.2							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 03

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Zulu	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	
12-15Z	310	6	-5.5	-4.1	-6.9										6	310	1447	8	320	1445	0				29.44	
15-18Z		0	-3.9	-3.9	-6.1										6	320	1615	9	310	1503	1				29.42	
18-21Z		0	-0.7	-0.2	-4.0										5	90	2005	6	90	2005	1				29.40	
21-24Z		0	0.7	1.2	-1.3										3	200	2329	5	190	2326	4				29.37	
12 hr Max/Min				1.2	-6.9																					
00-03Z	20	7	-2.7	0.9	-4.0										10	40	210	11	30	149	5	180			29.33	
03-06Z		0	-0.3	-0.2	-3.0										9	30	318	11	30	315	2				29.29	
06-09Z		0	-1.9	0.7	-2.8										5	270	809	19	40	726	1				29.28	
09-12Z		3	-3.8	-2.0	-4.4										3	130	1150	4	100	1150	1				29.28	
12 hr Max/Min				0.9	-4.4																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	Ceiling (hrs)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Sky Cover	CIG	Time	<500	<1000	<3000
348	2	1.2	-6.9	-2.9	00-06L	0	0	0	-19.0	-2.0	0	0	0	0.00	40	10	210	40	19	726	2	180	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.44	29.28	29.35	Taken	Diff	Diff							
																2	0.16	8.1								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 04

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	100	5	-6.8	-2.7	-7.3										8	90	1402	9	90	1402	1				29.29	
15-18Z	100	11	-7.3	-6.3	-8.8										12	100	1545	15	110	1746	1				29.31	
18-21Z	70	14	-8.6	-7.6	-8.7										16	60	2031	19	70	2030	1				29.33	
21-24Z	50	16	-7.1	-6.8	-8.9										17	60	2350	22	50	2333	1				29.35	
12 hr Max/Min				-2.7	-8.9																					
00-03Z	60	14	-7.7	-7.0	-7.7										17	50	131	22	50	144	1				29.35	
03-06Z	60	11	-7.2	-7.1	-8.2										15	60	502	20	60	423	1				29.35	
06-09Z	50	12	-7.6	-6.6	-7.6										16	60	737	20	50	633	3				29.36	
09-12Z	50	9	-7.4	-7.3	-8.5				SN	0				T	15	30	932	18	40	938	6	50			29.37	
12 hr Max/Min				-6.6	-8.5																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	Ceiling (hrs)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Sky Cover	CIG	Time	<500	<1000	<3000
64	12	-2.7	-8.9	-5.8	00-06L	0	0	0	-26.0	-15.0	0	0	0	0.00	60	17	2350	50	22	2333	2	50	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.37	29.29	29.34	8	0.08	6.2							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 05

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	40	8	-7.2	-7.1	-7.7				SN	2					12	50	1215	16	50	1214	7	50				29.39
15-18Z		5	-6.1	-6.0	-7.2									T	10	40	1606	12	30	1615	6	55				29.41
18-21Z	60	7	-5.7	-5.4	-8.2										9	60	1944	11	50	2050	6	50				29.46
21-24Z	60	9	-4.8	-4.7	-6.3										12	70	2119	15	70	2119	4					29.49
12 hr Max/Min				-4.7	-8.2																					
00-03Z	60	10	-6.1	-4.9	-6.1										13	60	242	16	60	239	2					29.53
03-06Z	70	12	-7.3	-5.2	-7.5										14	70	527	17	70	536	2					29.58
06-09Z	60	11	-7.7	-7.0	-7.8										13	60	837	17	60	833	2					29.62
09-12Z	70	11	-7.9	-7.8	-8.3										14	60	935	17	60	932	3					29.65
12 hr Max/Min				-4.9	-8.3																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Sky Cover	CIG	Time	<500	<1000	<3000	
61	9	-4.7	-8.3	-6.5	00-06L	0	0	0	-23.0	-9.0	2	0	0	0.00	70	14	527	70	17	536	4	50	00-06L	0	0	0
				06-12L	0	0	0					Altimeter			Total	Daily	Daily									
				12-18L	0	0	0					Obs	Pres	Temp												
				18-24L	0	0	0					29.65	29.39	29.52	Taken	Diff	Diff									
															7	0.26	3.6									

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 06

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	70	11	-8.5	-7.9	-8.6										12	70	1448	15	70	1431	2				29.66	
15-18Z	70	8	-7.6	-7.6	-8.5										12	70	1623	15	70	1629	3				29.68	
18-21Z	80	7	-7.9																		5	180			29.71	
21-24Z	70	9	-7.8	-3.3	-8.9									11	60	2327	13	60	2327	5	150				29.71	
12 hr Max/Min				-3.3	-8.9																					
00-03Z	80	12	-9.4	-7.3	-9.8									14	70	248	18	60	248	6	40				29.71	
03-06Z	100	12	-10.2	-9.3	-10.6									15	9	550	19	90	431	8	40				29.71	
06-09Z	70	9	-10.9	-9.7	-11.0									15	80	826	19	90	826	7	50				29.72	
09-12Z	110	10	-11.3	-10.4	-11.3									12	100	931	17	90	905	7	150				29.71	
12 hr Max/Min				-7.3	-11.3																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	Ceiling (hrs)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
82	10	-3.3	-11.3	-7.3	00-06L	0	0	0	-28.0	-18.0		2	0	0.00	9	15	550	90	19	431	5	40	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Obs	Pres	Temp										
					18-24L	0	0	0						29.72	29.66	29.70	Diff	Diff	Diff							
																8	0.06	8.0								

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Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 07

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	70	14	-11.2	-10.9	-12.3										15	70	1342	19	70	1336	7	110				29.68
15-18Z	60	12	-10.8	-10.4	-12.6										18	50	1736	21	50	1639	8	110				29.69
18-21Z	70	12	-10.1	-5.5	-11.1										16	60	2042	21	50	2046	8	110				29.71
21-24Z	60	11	-10.8	-9.8	-10.9										18	50	2124	22	50	2142	8	110				29.71
12 hr Max/Min				-5.5	-12.6																					
00-03Z	90	10	-9.2	-9.1	-11.0										16	80	249	22	50	32	8	140				29.70
03-06Z	40	12	-10.3	-8.5	-10.6										17	70	314	23	90	313	7	120				29.71
06-09Z	50	15	-10.3	-9.9	-10.6										17	50	840	22	50	848	7	120				29.72
09-12Z	60	12	-10.4	-10.2	-10.7										19	50	932	23	50	946	6	180				29.73
12 hr Max/Min				-8.5	-11.0																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)		
Dir	Spd	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500		<1000	<3000
62	12	-5.5	-12.6	-9.1	00-06L	0	0	0	-33.0	-26.0	0	0	0	0.00	50	19	932	90	23	313	7	110	00-06L	0	0	0
				06-12L	0	0	0					Altimeter			Total Obs	Daily Pres	Daily Temp									
				12-18L	0	0	0					Max	Min	Avg	29.73	29.68	29.71	8	0.05	7.1						
				18-24L	0	0	0																			

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McMurdo Station Daily Observation Worksheet

Date: 08

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Zulu	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	
12-15Z	60	12	-11.5	-9.5	-11.6										17	60	1410	24	60	1319	4				29.73	
15-18Z	60	16	-11.0	-10.8	-11.9										17	50	1741	21	60	1741	6	180			29.73	
18-21Z	50	18	-9.9	-9.8	-11.0										21	50	2041	23	60	2041	6	180			29.73	
21-24Z	60	12	-9.6	-9.2	-11.6										17	60	2210	22	60	2158	7	180			29.74	
12 hr Max/Min				-9.2	-11.9																					
00-03Z	50	15	-8.7	-7.9	-9.5										17	60	31	21	50	245	4				29.73	
03-06Z	60	13	-8.7	-8.1	-8.8										16	60	505	21	50	504	6	180			29.71	
06-09Z	60	12	-9.0	-7.9	-9.0										18	50	809	22	60	811	7	130			29.69	
09-12Z	30	12	-7.4	-7.4	-9.5										17	30	1030	20	40	1023	7	130			29.67	
12 hr Max/Min				-7.4	-9.5																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Sky Cover	est CIG	Time	<500	<1000	<3000
54	14	-7.4	-11.9	-9.7	00-06L	0	0	0	-32.0	-26.0	0	0	0	0.00	50	21	2041	60	24	1319	6	130	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Obs	Pres	Temp										
					18-24L	0	0	0						29.74	29.67	29.72	Taken	Diff	Diff							
																8	0.07	4.5								

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McMurdo Station Daily Observation Worksheet

Date: 09

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)		
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		<3000	
12-15Z	340	4	-5.6	-5.5	-7.3										12	40	1217	13	30	1236	7	130				29.63		
15-18Z		0	-6.9	-13.0	-14.9										8	30	1736	9	30	1735	7	70				29.59		
18-21Z	40	7	-13.0	-12.3	-14.5										7	40	2045	8	30	1809	7	180				29.54		
21-24Z		0	-2.2	-1.9	-4.4										12	320	2250	17	320	2250	6	180				29.48		
12 hr Max/Min				-1.9	-14.9																							
00-03Z		0	-1.4	-0.3	-3.6										5	190	101	6	190	104	7	130				29.42		
03-06Z	260	3	-1.2	-0.8	-2.4										4	250	546	6	280	541	7	130				29.40		
06-09Z		0	-2.4	-0.8	-3.0										4	260	801	7	310	736	7	80				29.39		
09-12Z		0	-3.4	-1.1	-3.6										3	230	906	4	190	1020	7	45				29.39		
12 hr Max/Min				-0.3	-3.6																							
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Sky Cover	est CIG	Time	<500	<1000	<3000		
1	2	-0.3	-14.9	-7.6	00-06L	0	0	0	-25.0	-13.0	0	0	0	0.00	40	12	1217	320	17	2250	7	45	00-06L	0	0	0		
					06-12L	0	0	0						Altimeter			Total	Daily	Daily									
					12-18L	0	0	0						Obs	Pres	Temp												
					18-24L	0	0	0						Max	Min	Avg	Diff	Diff	Diff									
																29.63	29.39	29.48	3	0.24	14.6							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 10

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z		0	-5.9	-3.6	-6.0		1	1	SN	1					4	170	1409	6	160	1408	8	45				29.38
15-18Z	100	3	-4.8	-4.5	-5.7	1	2		SN	3				0.03	3	100	1749	5	100	1747	8	45				29.37
18-21Z	50	10	-8.8	-4.8	-9.8	1	2		SN	3					13	60	2044	16	50	2045	8	45				29.36
21-24Z	50	13	-10.6	-9.0	-11.1		2		SN	3				0.02	20	50	2226	23	50	2238	7	45				29.35
12 hr Max/Min				-3.6	-11.1																					
00-03Z	50	14	-10.1	-9.8	-11.0				SN	3					19	50	9	22	50	28	7	45				29.33
03-06Z	50	11	-8.1	-8.0	-11.9				SN	1				TR	19	70	336	23	70	326	7	65				29.31
06-09Z	170	4	-7.6	-4.8	-8.0										12	50	648	14	50	647	7	45				29.30
09-12Z	90	6	-9.9	-6.6	-10.3										7	90	1126	9	90	1126	7	50				29.27
12 hr Max/Min				-4.8	-11.9																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
60	8	-3.6	-11.9	-7.8	00-06L	1	3	1	-30.0	-22.0	14	0	0	0.05	50	20	2226	50	23	2238	7	45	00-06L	0	0	0
				06-12L	1	4	0					Altimeter			Total Obs	Daily Pres	Daily Temp									
				12-18L	0	0	0					Max	Min	Avg	29.38	29.27	29.33	7	0.11	8.3	12-18L	0	0	0		
				18-24L	0	0	0											18-24L								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 11

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	0	0	-10.4	-9.0	-10.8										9	100	1328	12	80	1326	7	50				29.25
15-18Z	80	12	-13.4	-10.1	-13.5										12	70	1750	17	70	1750	7	50				29.24
18-21Z	80	14	-13.9	-12.5	-13.9				SN		2				19	70	1902	23	70	1910	7	50				29.24
21-24Z	70	18	-13.8	-13.6	-15.2				SN		3				20	90	2211	25	90	2210	6	50				29.24
12 hr Max/Min				-9.0	-15.2																					
00-03Z	70	10	-11.5	-10.6	-16.3				SN		1				22	70	41	26	70	41	6	50				29.24
03-06Z	50	17	-12.6	-10.4	-13.4										22	40	420	26	40	419	2					29.25
06-09Z	70	11	-11.6	-11.6	-12.6										16	70	716	19	50	825	2					29.25
09-12Z	60	13	-10.8	-10.8	-11.8										15	60	1125	20	50	959	3					29.25
12 hr Max/Min				-10.4	-16.3																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
68	12	-9.0	-16.3	00-06L	0	0	0	-35.0	-31.0	6	0	0	0.00	70	22	41	70	26	41	5	50	00-06L	0	0	0	
				06-12L	0	0	0					Altimeter			Total Obs	Daily Pres	Daily Temp									
				12-18L	0	0	0					Max	Min	Avg	29.25	29.24	29.25	8	0.01	7.3						
				18-24L	0	0	0																			

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 12

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	70	13	-10.7	-10.1	-10.9										14	70	1431	17	60	1443	6	60				29.26
15-18Z	70	11	-12.9	-10.5	-12.9										14	70	1739	18	70	1746	6	60				29.28
18-21Z	60	12	-11.4	-11.4	-13.1										18	90	1903	22	90	1903	6	80				29.32
21-24Z	50	11	-9.2	-9.1	-11.3										14	50	2301	16	50	2349	5	80				29.34
12 hr Max/Min				-9.1	-13.1																					
00-03Z	60	9	-10.0	-8.1	-10.0										14	60	18	17	50	18	6	80				29.34
03-06Z	60	9	-9.4	-7.8	-10.0										11	50	549	14	60	541	2					29.33
06-09Z	50	13	-10.7	-9.2	-10.9										12	50	850	15	50	850	2					29.33
09-12Z	60	6		-10.9	-12.2										14	60	1020	18	50	1009	4					29.33
12 hr Max/Min				-7.8	-12.2																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd			Time	Time	<500		<1000
60	11	-7.8	-13.1	-10.5	00-06L	0	0	0	-30.0	-22.0	0	0	0	0.00	90	18	1903	90	22	1903	5	60	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0									Obs	Pres	Temp							
					18-24L	0	0	0									Taken	Diff	Diff							
																	8	0.08	5.3							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 13

Time	Winds			3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	Temp	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	60	7	-11.4	-10.8	-12.0										10	30	1439	14	30	1242	4				29.32		
15-18Z	90	6	-12.0	-10.7	-12.2										10	60	1505	12	60	1538	1				29.33		
18-21Z	90	5	-8.8	-8.5	-12.1										7	90	1915	8	90	1914	2				29.34		
21-24Z	100	4	-7.3	-5.0	-8.9										8	180	2244	9	180	2244	1				29.34		
12 hr Max/Min				-5.0	-12.2																						
00-03Z		3	-5.9	-5.6	-7.2										7	150	104	8	170	103	2				29.34		
03-06Z	60	10	-8.6	-4.4	-8.6										14	60	532	17	50	532	2				29.35		
06-09Z	50	15	-10.5	-8.7	-10.9										19	40	843	23	40	841	2				29.36		
09-12Z	50	12	-10.9	-10.1	-11.4										20	40	901	24	40	901	1				29.39		
12 hr Max/Min				-4.4	-11.4																						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
63	8	-4.4	-12.2	-8.3	00-06L	0	0	0	-31.0	-24.0	0	0	0	0.00	40	20	901	40	24	901	2		00-06L	0	0	0
					06-12L	0	0	0							Altimeter						2		06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.39	29.32	29.35	7	0.07	7.8			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 14

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	110	5	-10.8	-10.0	-10.8										12	50	1226	15	50	1227	1				29.41	
15-18Z		0	-8.4	-8.1	-13.2										6	100	1550	9	70	1532	1				29.43	
18-21Z		0	-6.4	-6.7	-8.2										7	70	1940	10	110	1857	1				29.46	
21-24Z	100	5	-6.2	-4.6	-6.8										7	90	2317	9	90	2317	0				29.48	
12 hr Max/Min				-4.6	-13.2																					
00-03Z	110	4	-6.0	-5.2	-6.6										6	100	242	8	100	241	1				29.49	
03-06Z		0	-4.1	-3.3	-5.9										6	290	400	8	270	342	1				29.49	
06-09Z	30	5	-6.4	-2.8	-6.6										7	30	801	7	30	850	1				29.48	
09-12Z	10	3	-7.1	-6.7	-8.0				-SN	1				T	9	40	1005	11	40	1004	5	40			29.47	
12 hr Max/Min				-2.8	-8.0																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
78	3	-2.8	-13.2	-8.0	00-06L	0	0	0	-25.0	-13.0	1	0	0	0.00	50	12	1226	50	15	1227	1	40	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.49	29.41	29.46	Taken	Diff	Diff							
																5	0.08	10.4								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 15

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z		0	-8.8	-6.9	-8.9				-SN	3					6	30	1214	7	30	1222	6	40				29.44
15-18Z		0	-8.4	-8.2	-9.2				-SN	2				T	4	350	1723	5	360	1724	7	35				29.40
18-21Z		0	-7.2	-7.0	-10.4				-SN	1					5	80	1846	6	80	1919	7	40				29.38
21-24Z	180	4	-7.1	-5.9	-8.5									T	5	190	2344	6	180	2342	3				29.38	
12 hr Max/Min				-5.9	-10.4																					
00-03Z	70	6	-7.0	-5.7	-8.1										7	110	224	9	110	205	6	50				29.40
03-06Z	80	5	-7.8	-6.8	-7.9				-SN	2				T	7	50	423	9	80	419	7	40				29.45
06-09Z	70	12	-10.9	-7.7	-11.1				-SN	3					13	90	814	16	80	813	7	40				29.52
09-12Z	70	8	-11.2	-10.2	-11.9				-SN	1				T	15	50	1125	19	50	1121	7	45				29.60
12 hr Max/Min				-5.7	-11.9																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
79	4	-5.7	-11.9	-8.8	00-06L	0	0	0	-29.0	-20.0	11	0	0	0.00	50	15	1125	50	19	1121	6	35	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.60	29.38	29.45	Taken	Diff	Diff							
																5	0.22	6.2								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 16

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	60	14	-12.0	-11.1	-12.1				-SN	2					16	50	1249	21	50	1244	8	40				29.66
15-18Z	90	10	-12.4	-12.0	-12.5				-SN	3				T	17	50	1537	22	50	1537	8	50				29.73
18-21Z	90	10	-11.1	-11.0	-12.4				-SN	1					17	140	1944	23	130	1943	7	100				29.78
21-24Z	140	17	-11.8	-9.7	-11.9				-SN	1				T	21	140	2340	26	150	2350	7	90				29.79
12 hr Max/Min				-9.7	-12.5																					
00-03Z	110	11	-10.9	-10.5	-11.7										20	140	2359	31	150	2359	6	90				29.79
03-06Z	120	11	-11.4	-10.9	-11.8										23	140	503	31	150	444	7	40				29.78
06-09Z	110	9	-11.1	-10.9	-12.0										19	120	631	26	140	637	6	70				29.75
09-12Z	110	10	-11.2	-10.9	-11.4										12	130	1138	19	120	1125	6	80				29.71
12 hr Max/Min				-10.5	-12.0																					

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
105	12	-9.7	-12.5	00-06L	0	0	0	-34.0	-29.0	7	0	0	0.00	140	23	503	150	31	2359	7	40	00-06L	0	0	0
				06-12L	0	0	0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				06-12L	0	0	0
				12-18L	0	0	0						Max	Min	Avg							12-18L	0	0	0
				18-24L	0	0	0						29.79	29.66	29.75	8	0.13	2.8				18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 17

Time	Winds			3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min		<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	50	7	-10.0	-9.8	-11.4										11	120	1244	15	160	1239	8	80				29.66	
15-18Z	40	3	-10.2	-9.9	-10.7										10	50	1519	12	60	1518	7	80				29.61	
18-21Z	60	10	-11.3	-9.4	-11.5										11	60	2049	15	60	2049	6	80				29.59	
21-24Z	60	7	-10.8	-10.0	-11.8				SN/IC	3					T	13	50	2135	17	60	2110	7	80				29.56
12 hr Max/Min				-9.4	-11.8																						
00-03Z	40	12	-11.3	-10.4	-13.1				SN/IC	2					16	50	204	20	50	204	3						29.54
03-06Z	90	10	-10.7	-10.4	-13.0				IC	2					T	17	50	309	19	60	309	5	180				29.53
06-09Z	90	9	-11.6	-10.5	-11.8				IC	1					12	70	842	15	80	835	6	130				29.54	
09-12Z	80	7	-12.4	-11.7	-12.4										11	50	1059	14	90	859	4					29.56	
12 hr Max/Min				-10.4	-13.1																						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
65	8	-9.4	-13.1	00-06L	0	0	0	-32.0	-26.0	7	0	0	0.00	50	17	309	50	20	204	6	80	00-06L	0	0	0
				06-12L	0	0	0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
				12-18L	0	0	0						Max	Min	Avg				8	0.13	3.7	06-12L	0	0	0
				18-24L	0	0	0						29.66	29.53	29.57				12-18L	0	0	0			
																			18-24L	0	0	0			



McMurdo Station Daily Observation Worksheet

Date: 18

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z		0	-12.4	-11.2	-12.5										9	80	1315	11	80	1313	2				29.57	
15-18Z	40	11	-10.2	-10.1	-13.3									T	16	40	1717	19	30	1617	5	50			29.57	
18-21Z		0	-8.6	-8.1	-13.1										13	30	1810	15	30	1810	2				29.61	
21-24Z		0	-6.0	-5.5	-8.2										3	180	2310	5	270	2150	1				29.63	
12 hr Max/Min				-5.5	-13.3																					
00-03Z		0	-7.6	-5.0	-8.4										5	190	216	6	190	218	5	120			29.64	
03-06Z	80	5	-8.6	-6.6	-8.9				SN	1				T	7	70	549	8	70	549	7	35			29.66	
06-09Z		0	-9.1	-8.4	-9.2										7	30	812	9	30	810	7	35			29.68	
09-12Z	320	4	-9.2	-8.7	-9.7										5	320	1148	8	310	928	4				29.70	
12 hr Max/Min				-5.0	-9.7																					

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
37	3	-5.0	-13.3	-9.2	00-06L	0	0	0	-31.0	-24.0	1	0	0	0.00	40	16	1717	30	19	1617	4	35	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.70	29.57	29.63	3	0.13	8.3			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 19

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	10	5	-11.1	-9.3	-11.2										8	350	1429	11	340	1425	1				29.70	
15-18Z		0	-9.6	-8.9	-12.1										6	20	1503	7	10	1530	1				29.69	
18-21Z		0	-5.3	-4.5	-9.9										4	350	1824	5	360	1823	1				29.70	
21-24Z		6	-7.4	-5.9	-7.6										9	50	2334	11	50	2331	1				29.70	
12 hr Max/Min			-4.5	-12.1																						
00-03Z	80	7	-6.8	-6.6	-7.4										9	70	237	12	50	120	0				29.71	
03-06Z	60	7	-6.8	-6.2	-7.0										9	80	524	12	50	420	0				29.71	
06-09Z	80	6	-8.7	-6.6	-6.1										10	70	724	13	110	814	5	200			29.74	
09-12Z	90	5	-10.8	-9.1	-10.9										8	70	920	10	70	915	2				29.76	
12 hr Max/Min			-6.2	-10.9																						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
67	5	-4.5	-12.1	-8.3	00-06L	0	0	0	-24.0	-11.0	0	0	0	0.00	70	10	724	110	13	814	1	200	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.76	29.69	29.71	5	0.07	7.6			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 20

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z		0	-11.4	-10.1	-11.5										6	90	1157	7	80	1157	2				29.75	
15-18Z	80	5	-9.4	-9.4	-12.9									9	80	1627	11	90	1622	5	240				29.75	
18-21Z	90	5	-12.2	-8.1	-12.9				SN		1			12	100	2040	15	100	2040	7	20			1	29.75	
21-24Z		4	-5.9	-5.5	-11.5				SN		1			T	8	90	2243	11	90	2227	6	240			1	29.74
12 hr Max/Min				-5.5	-12.9																					
00-03Z	90	4	-7.6	-6.4	-8.6									7	90	129	9	90	130	6	240				29.72	
03-06Z	90	6	-10.3	-7.3	-10.5									11	100	446	14	100	459	6	140				29.71	
06-09Z	90	9	-10.8	-9.1	-10.9									10	100	703	12	100	703	7	120				29.72	
09-12Z	80	4	-11.3	-10.7	-11.5									9	90	1034	12	100	916	7	130				29.73	
12 hr Max/Min				-6.4	-11.5																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
87	5	-5.5	-12.9	-9.2	00-06L	0	0	0	-28.0	-18.0	1	0	0	0.00	100	12	2040	100	15	2040	6	20	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.75	29.71	29.73	Taken	Diff	Diff							
																6	0.04	7.4								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 21

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		<3000
12-15Z	80	8	-11.3	-11.1	-12.0										9	90	1444	12	80	1442	7	80				29.74	
15-18Z	90	8	-11.1	-11.1	-11.7										9	90	1711	12	80	1714	7	20			1	29.78	
18-21Z	80	9	-11.8	-11.1	-12.0										14	90	2016	16	90	2033	7	80			2	29.82	
21-24Z	60	12	-10.9	-10.5	-12.4										16	50	2347	20	70	2303	6	80				29.86	
12 hr Max/Min				-10.5	-12.4																						
00-03Z				-10.3	-12.5										19	90	224	25	80	202							29.88
03-06Z	70	7	-10.1	-9.7	-12.6										18	90	303	22	80	321	7	40					29.90
06-09Z				-8.3	-9.6										9	30	627	11	30	617							
09-12Z		0	-8.7	-8.0	-8.8										4	260	1131	5	260	1131	7	25				3	29.93
12 hr Max/Min				-8.0	-12.6																						
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000	
75	7	-8.0	-12.6	-10.3	00-06L	0	0	0	-32.0	-26.0	0	0	0	0.00	90	19	224	80	25	202	7	20	00-06L	0	0	1	
					06-12L	0	0	0						Altimeter			Total	Daily	Daily								
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp								
					18-24L	0	0	0						29.93	29.74	29.84	Taken	Diff	Diff								
																5	0.19	4.6									

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 22

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	
12-15Z				-8.5	-9.0									4	350	1425	5	340	1425						
15-18Z		0	-8.8	-8.4	-9.1									4	70	1723	5	90	1722	7	15			2	29.95
18-21Z				-7.3	-8.4									3	270	1949	4	270	1948					1	
21-24Z		0	-5.4	-5.2	-7.7									2	220	2350	4	220	2340	7	90				29.99
12 hr Max/Min				-5.2	-9.1																				
00-03Z				-5.4	-7.4									4	190	148	5	240	238						
03-06Z		0	-5.7	-4.0	-6.2									4	110	530	6	90	528	7	100				30.01
06-09Z				-4.8	-5.8									3	270	731	4	240	729						
09-12Z		0	-5.1	-4.9	-5.8									4	310	1020	6	270	1015	7	100				30.04
12 hr Max/Min				-4.0	-7.4																				

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
0	-4.0	-9.1	-6.6	00-06L	0	0	0	-10.0	14.0	0	0	0	0.00	350	4	1425	90	6	528	7	15	00-06L	0	0	2
				06-12L	0	0	0							Altimeter								06-12L	0	0	1
				12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
				18-24L	0	0	0							30.04	29.95	30.00	0	0.09	5.1			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 23

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500		<1000
12-15Z				-4.7	-5.5									4	270	1350	6	290	1347							
15-18Z		0	-3.7	-3.3	-5.5									8	320	1733	14	310	1727	8	80			30.03		
18-21Z				-2.7	-4.0									6	300	1845	9	290	1847							
21-24Z		0	-2.3	-0.1	-2.7									4	190	2340	6	200	2337	7	15			2 30.00		
12 hr Max/Min				-0.1	-5.5																					
00-03Z				-1.3	-2.2									4	260	248	6	280	106					3		
03-06Z	320	3	-1.7	-1.1	-1.9									4	270	403	5	260	521	7	80			2 29.93		
06-09Z				-1.6	-2.6									6	320	837	8	320	848							
09-12Z	320	7	-2.8	-2.6	-2.8									7	320	1150	11	340	1130	7	100			29.84		
12 hr Max/Min				-1.1	-2.8																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
320	3	-0.1	-5.5	-2.8	00-06L	0	0	0	-12.0	10.0	0	0	0	0.00	320	8	1733	310	14	1727	7	15	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	2
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	5
					18-24L	0	0	0							30.03	29.84	29.95	Taken	Diff	Diff			18-24L	0	0	0
																		2	0.19	5.4						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 24

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500		<1000
12-15Z				-2.8	-5.0									8	320	1245	11	300	1222							
15-18Z		3	-3.6	-3.0	-5.2									6	340	1711	7	340	1714	6	60			29.73		
18-21Z				-1.3	-3.9									6	340	1803	8	340	1803							
21-24Z		6	-4.3	-0.2	-4.8									8	110	2350	10	100	2349	8	70			29.66		
12 hr Max/Min				-0.2	-5.2																					
00-03Z				-4.3	-7.1									19	140	222	29	150	221							
03-06Z	60	14	-11.6	-7.3	-11.8				SN	4				T	21	50	439	24	50	459	8	40		29.66		
06-09Z				-10.2	-13.1										20	70	815	25	60	818						
09-12Z	70	23	-17.4	-11.4	-17.5				SN	1				T	27	50	1100	31	80	1154	7	40		29.62		
12 hr Max/Min				-4.3	-17.5																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic		fg/br	bs	Dir	Spd	Time	Dir			Spd	Time	Time	<500	<1000	<3000
66	12	-0.2	-17.5	-8.9	00-06L	0	0	0	-43.0	-45.0	5	0	0	0.00	50	27	1100	80	31	1154	7	40	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg						12-18L	0	0	0
					18-24L	0	0	0							29.73	29.62	29.67	Taken	Diff	Diff			18-24L	0	0	0
																	2	0.11	17.3							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 25

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z				-17.0	-19.3										30	100	1436	38	350	1340						
15-18Z	60	27	-20.4	-19.2	-20.8									T	33	50	1534	39	40	1547	7	100			29.54	
18-21Z				-19.9	-20.8										28	50	1805	35	40	1809						
21-24Z	60	22	-20.3	-20.0	20.5									T	29	60	2231	33	50	2236	7	30			3 29.54	
12 hr Max/Min				-17.0	-20.8																					
00-03Z				-19.5	-20.5										24	70	102	30	70	102						
03-06Z	50	21	-21.3	-19.6	21.5										27	50	504	32	50	538	7	100			29.50	
06-09Z				-21.3	-22.2										29	50	628	34	50	637						
09-12Z	60	12	-20.5	-20.3	-22.2				SN	2				T	23	60	920	28	60	916	8	70			29.53	
12 hr Max/Min				-19.5	-22.2																					

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputing WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800		<9999	C	F	sn/sg/ic	fg/br	bs			Dir	Spd	Time	Dir	Spd	Time
57	21	-17.0	-22.2	-19.6	00-06L	0	0	0	-50.0	-58.0	2	0	0	0.00	50	33	1534	40	39	1547	7	30	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	3
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.54	29.50	29.53	4	0.04	5.2			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 26

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500		<1000
12-15Z				-16.0	-20.4										20	50	1223	24	50	1224						
15-18Z	90	7	-18.6	-15.3	-18.6				SN	2				T	13	80	1515	15	70	1514	6	70			29.50	
18-21Z				-12.6	-18.5										7	90	1757	8	90	1757						
21-24Z	80	4	-8.7	-6.8	-20.1									T	7	310	2324	9	310	2324	3				29.47	
12 hr Max/Min				-6.8	-20.4																					
00-03Z				-6.7	-10.8																					
03-06Z	320	8	-7.1	-6.6	-7.4																					
06-09Z				-6.9	-8.5																					
09-12Z		5	-9.3	-8.3	-11.9																					
12 hr Max/Min				-6.6	-11.9																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
40	6	-6.6	-20.4	-13.5	00-06L	0	0	0	-38.0	-36.0	2	0	0	0.00	50	20	1223	50	24	1224	4	30	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.50	29.36	29.44	Taken	Diff	Diff							
																3	0.14	13.8								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 27

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	
12-15Z				-10.5	-13.4									4	310	1204	6	320	1203						
15-18Z		0	-12.7	-11.9	-13.2									4	40	1710	4	50	1710	1				29.33	
18-21Z				-6.8	-11.8									3	90	2049	4	90	2049						
21-24Z		0	-7.7	-4.1	-10.6									4	90	2106	5	90	2105	4				29.30	
12 hr Max/Min				-4.1	-13.4																				
00-03Z				-4.6	-9.6																				
03-06Z	340	7	-7.1	-5.9	-8.1																				
06-09Z				-6.7	-9.1																				
09-12Z	340	4	-9.4	-8.6	-9.5																				
12 hr Max/Min				-4.6	-9.6																				

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
340	3	-4.1	-13.4	-8.8	00-06L	0	0	0	-19.0	-2.0	0	0	0	0.00	310	11	630	320	13	630	3	100	00-06L	0	0	0
												Altimeter														
												Max	Min	Avg	Total Obs	Daily Pres	Daily Temp									
												29.33	29.22	29.28	2	0.11	9.3									

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 28

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	
12-15Z				-9.1	-12.7									5	330	1213	8	340	1205						
15-18Z		0	-12.8	-11.5	-13.9									3	170	1730	4	180	1725	5	100			29.18	
18-21Z				-9.4	-12.5									4	170	2024	5	170	2023						
21-24Z		0	-5.8	-4.9	-9.8									4	180	2307	4	170	2309	3				29.18	
12 hr Max/Min				-4.9	-13.9																				
00-03Z				-3.8	-6.3									8	310	228	11	330	232						
03-06Z		5	-5.4	-4.1	-5.7									10	340	501	13	340	508	5	200			29.20	
06-09Z				-5.6	-10.2									8	320	628	10	310	630						
09-12Z	120	5	-8.9	-5.6	-10.2				SN	1				T	6	100	1150	8	100	1149	7	100		29.33	
12 hr Max/Min				-3.8	-10.2																				

Time	Avg Wind		Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			
	Dir	Spd				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000
120	3	-3.8	-13.9	-8.9	00-06L	0	0	0	-16.0	3.0	1	0	0	0.00	340	10	501	340	13	508	5	100	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
					18-24L	0	0	0							29.33	29.18	29.22						18-24L	0	0	0
																		1	0.15	10.1						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 29

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	
12-15Z				-9.1	-15.1										25	140	1427	35	140	1430					
15-18Z	100	15	-16.0	-14.0	-16.0									30	140	1600	36	140	1600	4				29.48	
18-21Z				-14.7	-19.2									26	50	2020	32	130	1810						
21-24Z	60	16	-15.7	-15.1	-20.9									28	50	2124	33	50	2123	2				29.47	
12 hr Max/Min				-9.1	-20.9																				
00-03Z				-9.0	-15.3									17	50	44	22	60	37						
03-06Z	340	12	-11.4	-8.4	-11.7									14	350	508	18	330	512	5	100			29.44	
06-09Z				-11.7	-14.6									11	350	559	14	340	611						
09-12Z		0	-12.6	-12.3	-13.1				SN	3				0.01	3	80	1108	4	80	1057	8	20		29.41	
12 hr Max/Min				-8.4	-15.3																				

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
56		11	-8.4	-20.9	-14.7	00-06L	0	0	0	-43.0	-45.0	/	3	0	0	0.01	140	30	1600	140	36	1600	5	20	00-06L	0	0	0
						06-12L	0	0	0								Altimeter								06-12L	0	0	0
						12-18L	0	0	0								Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
						18-24L	0	0	0								29.48	29.41	29.45	3	0.07	12.5			18-24L	0	0	2



McMurdo Station Daily Observation Worksheet

Date: 30

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500		<1000
12-15Z																										
15-18Z																										
18-21Z																										
21-24Z																										
12 hr Max/Min																										
00-03Z																										
03-06Z																										
06-09Z																										
09-12Z																										
12 hr Max/Min																										

Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800		<9999	C	F	sn/sg/ic	fg/br	bs			Dir	Spd	Time	Dir	Spd	Time
												0.00														
													Altimeter													
													Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
																0										
				00-06L	0	0	0										00-06L	0	0	0						
				06-12L	0	0	0										06-12L	0	0	0						
				12-18L	0	0	0										12-18L	0	0	0						
				18-24L	0	0	0										18-24L	0	0	0						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



McMurdo Station Daily Observation Worksheet

Date: 31

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500		<1000
12-15Z																										
15-18Z																										
18-21Z																										
21-24Z																										
12 hr Max/Min																										
00-03Z																										
03-06Z																										
06-09Z																										
09-12Z																										
12 hr Max/Min																										
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
					00-06L	0	0	0			0	0	0	0.00									00-06L	0	0	0
					06-12L	0	0	0															06-12L	0	0	0
					12-18L	0	0	0															12-18L	0	0	0
					18-24L	0	0	0															18-24L	0	0	0
															Altimeter											
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																		0								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/completed by MS Excel.

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.



	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15												
12-15Z	0	140	4	310	6	100	5	40	8	70	11	70	14	60	12	340	4	0	0	0	70	13	60	7	110	5	0
15-18Z	120	4	90	6	0	100	11	70	8	60	12	60	16	60	16	0	100	3	80	12	70	11	90	6	0	0	0
18-21Z	60	9	80	5	0	70	14	60	7	80	7	70	12	50	18	40	7	50	10	80	14	60	12	90	5	0	0
21-24Z	90	7	40	8	0	50	16	60	9	70	9	60	11	60	12	0	50	13	70	18	50	11	100	4	100	5	180
00-03Z	110	8	30	9	20	7	60	14	60	10	80	12	90	10	50	15	0	50	14	70	10	60	9	3	110	4	70
03-06Z	90	7	30	8	0	60	11	70	12	100	12	40	12	60	13	260	3	50	11	50	17	60	9	60	10	0	80
06-09Z	100	7	0	0	0	50	12	60	11	70	9	50	15	60	12	0	170	4	70	11	50	13	50	15	30	5	70
09-12Z	100	10	300	6	3	50	9	70	11	110	10	60	12	30	12	0	90	6	60	13	60	6	50	12	10	3	70
X*u / X*v		2.571 -3.06	-4.6 3.857	4.924 -0.87	5.142 6.128	10.34 3.762	13.16 4.788	10.39 6	-1.37 3.759		0 0	12.22 4.446	6.062 3.5	4.698 -1.71													
X*u / X*v	3.464 -2	6 4E-16		10.83 -1.91		7.518 2.736	10.39 6	13.86 8		2.954 -0.52	11.82 2.084	10.34 3.762	6 4E-16														
X*u / X*v	7.794 4.5	4.924 0.868		13.16 4.788	6.062 3.5	6.894 1.216	11.28 4.104	13.79 11.57	4.5 5.362	7.66 6.428	13.79 2.431	10.39 6	5 3E-16														
X*u / X*v	7 4E-16	5.142 6.128		12.26 10.28	7.794 4.5	8.457 3.078	9.526 5.5	10.39 6		9.959 8.356	16.91 6.156	8.426 7.071	3.939 -0.69	4.924 -0.87													
X*u / X*v	7.518 -2.74	4.5 7.794	2.394 6.578	12.12 7	8.66 5	11.82 2.084	10 6E-16	11.49 9.642		10.72 8.999	9.397 3.42	7.794 4.5		3.759 -1.37													
X*u / X*v	7 4E-16	4 6.928		9.526 5.5	11.28 4.104	11.82 -2.08	7.713 9.193	11.26 6.5	-2.95 -0.52	8.426 7.071	13.02 10.93	7.794 4.5	8.66 5	4.924 0.868													
X*u / X*v	6.894 -1.22			9.193 7.713	9.526 5.5	8.457 3.078	11.49 9.642	10.39 6		0.695 -3.94	10.34 3.762	9.959 8.356	11.49 9.642	2.5 4.33													
X*u / X*v	9.848 -1.74	-5.2 3		6.894 5.785	10.34 3.762	9.397 -3.42	10.39 6	6 10.39		6 4E-16	11.26 6.5	5.196 3	9.193 7.713	0.521 2.954													
Sum u/Sum v	49.52 -3.19	21.94 21.65	-2.2 10.43	78.91 38.29	58.8 32.49	74.69 10.45	83.95 45.23	87.57 64.1	0.177 8.6	46.42 26.39	86.53 35.28	72.11 41.64	50.34 25.16	16.4 3.338													
Arctan	93.68	45.38	-11.9	64.11	61.07	82.04	61.69	53.79	1.179	60.38	67.82	60	63.45	78.5													
Direction	93.68	45.38	348.1	64.11	61.07	82.04	61.69	53.79	1.179	60.38	67.82	60	63.45	78.5													
Magnitude	6.5	6	2	12	9	10	12	14	2	8	21:00	11	8	3													

Avg Wind

		sin	cos
1	X*u / X*v	6.487	-0.418
2	X*u / X*v	4.092	4.039
3	X*u / X*v	-0.413	1.957
4	X*u / X*v	10.346	5.021
5	X*u / X*v	7.987	4.414
6	X*u / X*v	9.656	1.351
7	X*u / X*v	10.784	5.810
8	X*u / X*v	11.095	8.122
9	X*u / X*v	0.036	1.750
10	X*u / X*v	6.628	3.769
11	X*u / X*v	10.996	4.483
12	X*u / X*v	9.093	5.250
13	X*u / X*v	6.932	3.465
14	X*u / X*v	2.695	0.548
15	X*u / X*v	4.293	0.842
16	X*u / X*v	11.103	-2.995
17	X*u / X*v	7.375	3.409
18	X*u / X*v	1.516	1.988
19	X*u / X*v	4.131	1.784
20	X*u / X*v	4.620	0.220
21	X*u / X*v	7.076	1.925
22	X*u / X*v		
23	X*u / X*v	-1.607	1.915
24	X*u / X*v	10.524	4.637
25	X*u / X*v	17.279	11.032
26	X*u / X*v	3.885	4.572
27	X*u / X*v	-0.941	2.584
28	X*u / X*v	2.165	-1.250
29	X*u / X*v	8.890	6.044
30	X*u / X*v		
31	X*u / X*v		
	Sum u/Sum v	176.725	86.268
	Arctan	63.981	
	Direction	64.0	
	Magnitude	7.321839	

Station:
NZCM

Monthly Climatology / Page 1

Month:
FEB 2004

Date	Temp (C)			Visibility (hrs)															WX and Duration				Pcpn Amt	Avg Wind		Max Wind		Max Gust
	Max	Min	Avg	< 1600					< 4800					< 9999					sn/sg/ic	fg/br	bs	Total		Spd	Dir	Spd	Dir	
				00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total										
1	-2.2	-6.8	-4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7	94	14	60	16
2	-0.6	-7.8	-4.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	45	12	30	15
3	1.2	-6.9	-2.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	348	10	40	19
4	-2.7	-8.9	-5.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.00	12	64	17	60	22
5	-4.7	-8.3	-6.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	9	61	14	70	17
6	-3.3	-11.3	-7.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	10	82	15	9	19
7	-5.5	-12.6	-9.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	62	19	50	23
8	-7.4	-11.9	-9.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	54	21	50	24
9	-0.3	-14.9	-7.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	1	12	40	17
10	-3.6	-11.9	-7.8	1.00	1.00	0.00	0.00	2.00	3.00	4.00	0.00	0.00	7.00	1.00	0.00	0.00	0.00	1.00	14.00	0.00	0.00	14.00	0.05	8	60	20	50	23
11	-9.0	-16.3	-12.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	0.00	0.00	5.50	0.00	12	68	22	70	26
12	-7.8	-13.1	-10.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	60	18	90	22
13	-4.4	-12.2	-8.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	63	20	40	24
14	-2.8	-13.2	-8.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	0.00	3	78	12	50	15	
15	-5.7	-11.9	-8.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.00	0.00	11.00	0.00	4	79	15	50	19
16	-9.7	-12.5	-11.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	6.50	0.00	12	105	23	140	31
17	-9.4	-13.1	-11.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	7.00	0.00	8	65	17	50	20
18	-5.0	-13.3	-9.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	3	37	16	40	19
19	-4.5	-12.1	-8.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	67	10	70	13
20	-5.5	-12.9	-9.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	5	87	12	100	15
21	-8.0	-12.6	-10.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7	75	19	90	25
22	-4.0	-9.1	-6.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		4	350	6
23	-0.1	-5.5	-2.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	320	8	320	14
24	-0.2	-17.5	-8.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.00	4.50	0.00	12	66	27	50	31
25	-17.0	-22.2	-19.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	21	57	33	50	39
26	-6.6	-20.4	-13.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	6	40	20	50	24
27	-4.1	-13.4	-8.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	340	11	310	13
28	-3.8	-13.9	-8.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	3	120	10	340	13
29	-8.4	-20.9	-14.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00	0.01	11	56	30	140	36
30				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
31				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

Monthly Statistics

Temp (C)	Visibility (hrs)															WX and Duration				Pcpn Total	Avg Wind		Max Wind		Max Gust
	Max	Min	Avg	< 1600					< 4800					< 9999					sn/sg/ic		fg/br	bs	Total	Dir	
1.2	-22.2	-8.8		1.0	1.0	0.0	0.0	3.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0	63.1	0.0	0.0	63.1	0.06	64	7	50	33	39

Total Hrs =or< 1600:	2.0	Total Hrs =or< 4800:	7.0	Total Hrs < 9999:	1.0
Total Days =or< 1600:	1	Total Days =or< 4800:	1	Total Days < 9999:	1
% Hrs =or< 1600:	0.0	% Hrs =or< 4800:	0.0	% Hrs < 9999:	0.0
% Days =or< 1600:	0.0	% Days =or< 4800:	0.0	% Days < 9999:	0.0

Total Hrs	sn/sg/ic:	63.1
	fg/br:	0.0
	fg:	0.0
Total Days	sn/sg/ic:	16
	fg/br:	0
	fg:	0



Station:
NZCM

Monthly Climatology / Page 2

Month:
FEB 2004

Date	Avg Sky Cover	Low-est CIG	Ceiling (hrs)															Altimeter (in)			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	Min Wind Chill	Remarks
			< 500					< 1000					< 3000					Max	Min	Avg					
			00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total								
1	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.51	29.38	29.45	7	0.13	4.6		
2	2	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.53	29.47	29.51	7	0.06	7.2	-18.0	
3	2	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.44	29.28	29.35	2	0.16	8.1	-19.0	
4	2	50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.37	29.29	29.34	8	0.08	6.2	-26.0	
5	4	50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.65	29.39	29.52	7	0.26	3.6	-23.0	
6	5	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.72	29.66	29.70	8	0.06	8.0	-28.0	
7	7	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.73	29.68	29.71	8	0.05	7.1	-33.0	
8	6	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.74	29.67	29.72	8	0.07	4.5	-32.0	
9	7	45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.63	29.39	29.48	3	0.24	14.6	-25.0	
10	7	45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.38	29.27	29.33	7	0.11	8.3	-30.0	
11	5	50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.25	29.24	29.25	8	0.01	7.3	-35.0	
12	5	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.34	29.26	29.32	8	0.08	5.3	-30.0	
13	2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.39	29.32	29.35	7	0.07	7.8	-31.0	
14	1	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.49	29.41	29.46	5	0.08	10.4	-25.0	
15	6	35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.60	29.38	29.45	5	0.22	6.2	-29.0	
16	7	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.79	29.66	29.75	8	0.13	2.8	-34.0	
17	6	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.66	29.53	29.57	8	0.13	3.7	-32.0	
18	4	35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.70	29.57	29.63	3	0.13	8.3	-31.0	
19	1	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.76	29.69	29.71	5	0.07	7.6	-24.0	
20	6	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	29.75	29.71	29.73	6	0.04	7.4	-28.0	
21	7	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.00	3.00	6.00	29.93	29.74	29.84	5	0.19	4.6	-32.0	
22	7	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	3.00	30.04	29.95	30.00	0	0.09	5.1	-10.0	
23	7	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.00	7.00	30.03	29.84	29.95	2	0.19	5.4	-12.0	
24	7	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.73	29.62	29.67	2	0.11	17.3	-43.0	
25	7	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00	29.54	29.50	29.53	4	0.04	5.2	-50.0	
26	4	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	29.50	29.36	29.44	3	0.14	13.8	-38.0	
27	3	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.33	29.22	29.28	2	0.11	9.3	-19.0	
28	5	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.33	29.18	29.22	1	0.15	10.1	-16.0	
29	5	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	29.48	29.41	29.45	3	0.07	12.5	-43.0	
30			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0				
31			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0				

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)															Total Obs Taken	Min Wind Chill																							
	< 500					< 1000					< 3000							Altimeter																						
	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	Max	Min	Avg																						
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	10.0	5.0	6.0	6.0	30.04	29.18	29.54	150	-50.0																				
<table border="1"> <tr> <td>Total Hrs =or< 500:</td><td>0.0</td> <td>Total Hrs =or< 1000:</td><td>0.0</td> <td>Total Hrs =or< 3000:</td><td>24.0</td> </tr> <tr> <td>Total Days =or< 500:</td><td>0</td> <td>Total Days =or< 1000:</td><td>0</td> <td>Total Days =or< 3000:</td><td>7</td> </tr> <tr> <td>% Hrs =or< 500:</td><td>0.0</td> <td>% Hrs =or< 1000:</td><td>0.0</td> <td>% Hrs =or< 3000:</td><td>0.0</td> </tr> <tr> <td>% Days =or< 500:</td><td>0.0</td> <td>% Days =or< 1000:</td><td>0.0</td> <td>% Days =or< 3000:</td><td>0.2</td> </tr> </table>															Total Hrs =or< 500:	0.0	Total Hrs =or< 1000:	0.0	Total Hrs =or< 3000:	24.0	Total Days =or< 500:	0	Total Days =or< 1000:	0	Total Days =or< 3000:	7	% Hrs =or< 500:	0.0	% Hrs =or< 1000:	0.0	% Hrs =or< 3000:	0.0	% Days =or< 500:	0.0	% Days =or< 1000:	0.0	% Days =or< 3000:	0.2	Total Days	29
Total Hrs =or< 500:	0.0	Total Hrs =or< 1000:	0.0	Total Hrs =or< 3000:	24.0																																			
Total Days =or< 500:	0	Total Days =or< 1000:	0	Total Days =or< 3000:	7																																			
% Hrs =or< 500:	0.0	% Hrs =or< 1000:	0.0	% Hrs =or< 3000:	0.0																																			
% Days =or< 500:	0.0	% Days =or< 1000:	0.0	% Days =or< 3000:	0.2																																			