

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)	
	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	12	-18.7	-14.6	-19.4										18	30	1436	21	30	1435	7	55				29.14
15-18Z	50	16	-17.1	-15.2	-17.9				-SN	2					21	40	1641	26	40	1728	7	80				29.08
18-21Z	40	10	-13.4	-12.9	-17.3										18	40	1812	23	40	1806	7	150				29.02
21-24Z	30	12	-12.6	-12.3	-14.7										16	30	2249	19	30	2244	7	150				28.95
12 hr Max/Min				-12.3	-19.4																					
00-03Z	0	0	-10.2	-9.9	-12.6										14	30	2	18	30	8	7	150				28.89
03-06Z	180	3	-9.4	-8.6	-10.4										3	170	550	4	170	549	7	150				28.82
06-09Z	90	5	-12.7	-10.2	-13.1										8	90	812	10	80	831	7	150				28.76
09-12Z	0	0	-13.3	-11.1	-13.8										5	80	937	7	80	935	7	150				28.71
12 hr Max/Min				-8.6	-13.8																					

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	
47	7	-8.6	-19.4	-14.0	00-06L	0	0	0	-42.0	-44.0	2	0	0	0.00	40	21	1641	40	26	1728	7	55	00-06L	0	0	0
				06-12L	0	0	0					Altimeter														
				12-18L	0	0	0					Max Min Avg			Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
				18-24L	0	0	0					29.14	28.71	28.92	8	0.43	10.8									

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: 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	0	0	-14.4	-13.5	-14.9										3	360	1307	4	10	1245	8	150				28.66
15-18Z	0	0	-10.3	-10.2	-14.5										4	300	1730	6	290	1726	7	150				28.64
18-21Z	0	0	-10.8	-10.1	-13.6										3	160	1826	4	170	1283	7	150				28.62
21-24Z	0	0	-6.2	-6.0	-11.6										4	160	2233	5	160	2233	7	150				28.57
12 hr Max/Min			-6.0	-14.9																						
00-03Z	300	7	-7.5	-4.3	-8.7										8	300	250	10	300	250	6	150				28.53
03-06Z	300	5	-8.8	-8.2	-10.4										8	320	338	10	300	331	5	150				28.51
06-09Z	260	3	-11.2	-8.4	-11.2										9	290	646	10	290	646	4					28.51
09-12Z	0	0	-12.4	-10.7	-12.7										4	300	1009	5	300	1008	1					28.51
12 hr Max/Min			-4.3	-12.7																						
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
292	2	-4.3	-14.9	-9.6	00-06L	0	0	0	-20.0	-4.0	0	0	0	0.00	290	9	646	300	10	250	6	150	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	0	0							28.66	28.51	28.57	Taken	Diff	Diff			18-24L	0	0	0
																		8	0.15	10.6						

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: 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)
	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	-12.8	-11.5	-12.9										4	40	1328	5	50	1327	1				28.50	
15-18Z	20	5	-13.1	-11.3	-16.8										9	20	1745	12	20	1744	3				28.51	
18-21Z	0	0	-10.7	-9.4	-12.7										4	30	1803	8	20	1801	3				28.52	
21-24Z	0	0	-10.2	-9.2	-11.1										4	260	2339	5	280	2339	6	150			28.52	
12 hr Max/Min			-9.2	-16.8																						
00-03Z	0	0	-10.8	-8.0	-10.9										4	280	21	6	310	23	6	150				28.51
03-06Z	180	3	-10.9	-8.5	-10.9										4	180	550	5	180	538	7	150				28.52
06-09Z	0	0	-11.2	-10.1	-11.7										3	160	744	4	170	621	7	150				28.53
09-12Z	350	3	-13.1	-11.1	-17.2										4	310	1047	10	180	1150	7	150				28.52
12 hr Max/Min			-8.0	-17.2																						
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
14	1	-8.0	-17.2	-12.6	00-06L	0	0	0	-29.0	-20.0	0	0	0	0.00	20	9	1745	20	12	1744	5	150	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						28.53	28.50	28.52	Taken	Diff	Diff							
																8	0.03	9.2								

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: 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	0	0	-15.2	-14.2	-18.7										4	20	1342	5	20	1341	7	150				28.49
15-18Z	310	6	-12.1	-11.6	-16.2										6	320	1749	8	310	1747	8	65				28.46
18-21Z	310	4	-9.6	-9.6	-12.2				1	-SN	1				7	330	1932	10	320	1915	8	20			1	28.45
21-24Z	0	0	-8.3	-7.6	-12.3				1	-SN	3				8	280	2219	10	300	2149	8	65			3	28.44
12 hr Max/Min				-7.6	-18.7																					
00-03Z	30	11	-10.2	-6.7	-10.3	1			-SN	1					13	50	223	15	50	222	8	18			1	28.44
03-06Z	150	12	-9.7	-9.1	-10.4	1	2		-SN	2					14	20	450	20	20	449	8	180			3	28.44
06-09Z	140	15	-11.1	-9.9	-11.2										22	150	810	27	150	809	8	70			1	28.43
09-12Z	40	12	-10.7	-10.4	-11.5										20	150	927	25	160	923	8	50				28.44
12 hr Max/Min				-6.7	-11.5																					
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
81	8	-6.7	-18.7	-12.7	00-06L	0	0	0	-32.0	-26.0	7	0	0	0.00	150	22	810	150	27	809	8	18	00-06L	0	0	0
															Altimeter			Total	Daily	Daily						
															Max	Min	Avg	Obs	Pres	Temp						
															28.49	28.43	28.45	8	0.06	12.0						
																		8	0.06	12.0						

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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: 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	30	12	-10.7	-10.6	-11.0		2		-SN	2					14	20	1402	17	30	1402	8	70				28.44
15-18Z	150	7	-10.8	-10.2	-11.1		3		-SN	3				0.02	14	30	1525	17	30	1548	8	60				28.46
18-21Z	140	13	-10.9	-10.8	-11.4			1	-SN	1					18	150	1828	23	160	1845	8	60				28.48
21-24Z	0	0	-6.8	-6.9	-10.9										17	140	2233	20	140	2245	8	60				28.48
12 hr Max/Min				-6.9	-11.4																					
00-03Z	150	12	-9.1	-6.7	-10.0										21	150	37	26	150	36	8	60				28.47
03-06Z	20	10	-9.9	-7.9	-10.2				2	-SN	2			T	16	30	544	18	30	548	8	60				28.51
06-09Z	60	12	-12.2	-9.9	-12.5				-SN	2					22	50	843	25	50	842	8	50				28.55
09-12Z	50	12	-12.4	-12.0	-12.8									T	16	130	1000	22	140	958	8	70				28.58
12 hr Max/Min				-6.7	-12.8																					
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
81	10	-6.7	-12.8	-9.8	00-06L	0	5	0	-35.0	-29.0	10	0	0	0.02	50	22	843	150	26	36	8	50	00-06L	0	0	0
					06-12L	0	0	1						Altimeter			Total	Daily	Daily							
					12-18L	0	0	2						Obs	Pres	Temp										
					18-24L	0	0	0						Taken	Diff	Diff										
														28.58	28.44	28.50	8	0.14	6.1							

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: 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		<3000		
12-15Z	40	8	-11.2	-11.1	-12.7										13	50	1339	18	50	1338	8	40				28.57			
15-18Z	150	20	-14.4	-10.6	-14.4										26	150	1747	30	140	1747	8	40				28.64			
18-21Z	90	8	-12.8	-12.7	-15.1										18	120	2001	27	90	2000	8	40				28.68			
21-24Z	100	12	-13.2	-12.6	-13.6										22	130	2339	28	130	2309	8	40				28.71			
12 hr Max/Min			-10.6	-15.1																									
00-03Z	130	15	-13.1	-12.3	-13.3										25	150	204	29	150	204	8	40				28.69			
03-06Z	140	19	-13.3	-12.9	-13.5										24	150	535	30	150	534	8	50				28.70			
06-09Z	150	23	-14.7	-13.2	-14.7		1	1	SN	1			BLSN	2	30	150	708	33	160	713	8	15			2	28.73			
09-12Z	120	11	-14.7	-14.6	-15.0	1	1	1	SN	2			BLSN	2	27	150	1020	30	150	1057	8	50			2	28.76			
12 hr Max/Min			-12.3	-15.0																									
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)								
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			
128	15	-10.6	-15.1	-12.9	00-06L	0	0	0	-39.0	-38.0	3	0	4	0.00	150	30	708	160	33	713	8	15	00-06L	0	0	0			
																			Altimeter			8	15						
																			Max	Min	Avg			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	06-12L	12-18L	18-24L
																			28.76	28.57	28.69			8	0.19	4.5	0	0	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	80	7	-12.8	-12.6	-14.8										11	110	1333	18	150	1439	8	50				28.76
15-18Z	90	9	-12.2	-12.1	-13.1		1							0.30	13	80	1700	19	80	1735	8	50				28.74
18-21Z	150	31	-13.3	-11.8	-13.7										36	150	2018	43	150	2030	8	20				28.72
21-24Z	150	20	-12.8	-12.7	-13.6										40	150	2202	48	160	2201	8	50				28.79
12 hr Max/Min				-11.8	-14.8																					
00-03Z	120	9	-11.6	-11.5	-13.3										25	150	29	30	150	27	8	50				28.81
03-06Z	130	9	-11.9	-11.1	-12.0										14	110	544	22	140	543	8	50				28.81
06-09Z	130	8	-12.8	-11.9	-13.0										16	130	609	23	150	615	8	40				28.85
09-12Z	130	7	-13.6	-12.9	-14.3		1	1	-SN	1				T	16	130	1107	22	120	1007	8	40				28.86
12 hr Max/Min				-11.1	-14.3																					
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic		fg/br	bs	Dir	Spd	Time	Dir			Spd	Time	Time	<500	<1000	<3000
133	13	-11.1	-14.8	-13.0	00-06L	0	1	0	-40.0	-40.0	3	0	0	0.30	150	40	2202	160	48	2201	8	20	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total Obs	Daily Pres	Daily Temp							
					12-18L	0	0	0						28.86	28.72	28.79	8	0.14	3.7							
					18-24L	0	1	1																		

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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: 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	140	7	-13.4	-13.0	-13.9										15	150	1442	20	160	1430	8	40				28.86
15-18Z	60	10	-13.7	-13.2	-14.4										18	130	1617	30	150	1601	7	70				28.88
18-21Z	140	15	-10.7	-10.4	-14.0										21	140	2026	27	140	2026	7	80				28.86
21-24Z	120	14	-11.7															40	150	2152	7	80				28.91
12 hr Max/Min				-10.4	-14.4																					
00-03Z	100	11	-12.2	-11.3	-13.5										20	140	32	27	150	123	7	100				28.92
03-06Z	120	8	-11.7	-11.3	-13.7										17	50	257	20	50	314	6	100				28.91
06-09Z	120	9	-12.5	-11.5	-13.3										18	50	750	25	90	815	6	100				28.93
09-12Z	120	15	-12.9	-12.6	-13.4										15	110	1149	22	130	1148	6	100				28.91
12 hr Max/Min				-11.3	-13.7																					
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
117	11	-10.4	-14.4	-12.4	00-06L	0	0	0	-31.0	-24.0	0	0	0	0.00	140	21	2026	150	40	2152	7	40	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total Obs	Daily Pres	Daily Temp							
					12-18L	0	0	0						28.93	28.86	28.90	8	0.07	4.0							
					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: 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	100	12	-15.8	-12.9	-15.9										17	110	1222	27	130	1222	6	120				28.96	
15-18Z	120	17	-14.2	-14.1	-16.1										25	130	1716	34	130	1716	6	80				28.92	
18-21Z	110	10	-12.6	-11.5	-15.2										22	140	1909	33	130	1801	7	90				28.95	
21-24Z	80	7	-8.4	-8.3	-11.5										14	120	2146	22	130	2146	6	100				28.94	
12 hr Max/Min				-8.3	-16.1																						
00-03Z	70	8	-8.4	-7.9	-9.4										13	50	58	16	30	42	4					28.91	
03-06Z	120	13	-10.7	-8.7	-11.0										17	130	521	27	130	539	3					28.91	
06-09Z	130	13	-11.1	-10.3	-11.3										24	140	615	28	150	617	2					28.90	
09-12Z	90	9	-12.6	-10.8	-12.9										14	50	1014	19	40	1013	2					28.86	
12 hr Max/Min				-7.9	-12.9																						
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	
107	11	-7.9	-16.1	-12.0	00-06L	0	0	0	-33.0	-31.0	0	0	0	0.00	130	25	1716	130	34	1716	5	80	00-06L	0	0	0	
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0	
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0	
					18-24L	0	0	0							28.96	28.86	28.92	Taken	Diff	Diff			18-24L	0	0	0	
																		8	0.10	8.2							

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: 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	100	10	-13.1	-10.8	-13.2										14	90	1338	19	120	1241	2				28.85	
15-18Z	110	7	-12.0	-11.8	-13.3										15	50	1603	20	120	1506	6	120			28.84	
18-21Z	30	12	-11.6	-11.5	-12.8										16	50	2018	19	50	2017	6	120			28.80	
21-24Z	170	4	-10.1	-7.3	-11.8										12	30	2108	17	40	2058	6	120			28.77	
12 hr Max/Min			-7.3	-13.3																						
00-03Z	250	3	-7.1	-5.8	-9.7										5	170	45	6	160	45	5	120			28.77	
03-06Z		3	-8.8	-5.5	-9.0										8	150	450	10	160	450	6	120			28.77	
06-09Z	160	11	-10.1	-7.5	-10.6										19	150	821	21	150	821	7	120			28.78	
09-12Z	150	17	-10.4	-9.8	-10.7										20	180	1039	26	170	1038	7	70			28.77	
12 hr Max/Min			-5.5	-10.7																						
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
126	8	-5.5	-13.3	-9.4	00-06L	0	0	0	-28.0	-19.0	0	0	0	0.00	180	20	1039	170	26	1038	6	70	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							
														28.85	28.77	28.79	7	0.08	7.8							

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: 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	170	21	-9.4	-9.0	-10.7										26	170	1426	34	170	1426	7	70				28.76
15-18Z	70	12	-10.2	-8.8	-10.7										27	130	1657	36	130	1650	7	90				28.81
18-21Z	80	13	-8.9	-8.3	-10.8										21	120	2015	30	140	2012	6	80				28.80
21-24Z	50	15	-7.6	-7.4	-10.8										19	50	2321	30	120	2250	5	120				28.87
12 hr Max/Min				-7.4	-10.8																					
00-03Z	130	22	-7.1	-6.4	-8.0										31	140	131	40	150	130	5	150				28.85
03-06Z	150	35	-7.1	-6.7	-8.3										36	150	547	41	150	550	5	150				28.88
06-09Z	110	11	-6.2	-6.1	-7.3										36	150	601	41	150	600	6	120				28.98
09-12Z	50	5	-507.0	-5.6	-6.3										14	120	943	18	130	946	6	120				28.96
12 hr Max/Min				-5.6	-8.3																					
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
120	17	-5.6	-10.8	-8.2	00-06L	0	0	0	-30.0	-22.0	0	0	0	0.00	150	36	547	150	41	550	6	70	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	0.22	5.2							

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: 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	140	14	-4.1	-3.8	-5.6										12	120	1446	21	150	1446	6	120				28.93
15-18Z	170	28	-8.0	-4.1	-8.8							bs			31	150	1738	36	150	1739	6	100				28.94
18-21Z	80	8	-5.9	-5.8	-8.1		1					bs	1		28	160	1813	37	170	1812	7	80				28.93
21-24Z	150	16	-5.4	-5.4	-6.3										29	150	2120	32	150	2120	7	60				28.90
12 hr Max/Min				-3.8	-8.8																					
00-03Z	100	10	-4.9	-4.7	-5.8										23	150	10	27	16	8	7	100				28.89
03-06Z	0	0	-1.2	-0.9	-5.2										14	20	416	17	30	415	3					28.83
06-09Z	90	8	-5.9	0.1	-6.3										11	80	835	14	80	834	4					28.88
09-12Z	70	7	-5.0	-4.9	-6.8										13	50	910	15	50	911	6	100				28.93
12 hr Max/Min				0.1	-6.8																					
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	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	
133	11	0.1	-8.8	-4.4	00-06L	0	0	0	-30.0	-22.0	0	0	1	0.00	150	31	1738	170	37	1812	6	60	00-06L	0	0	0
				06-12L	0	1	0					Altimeter			Total	Daily	Daily									
				12-18L	0	0	0					Max	Min	Avg	Obs	Pres	Temp									
				18-24L	0	0	0					28.94	28.83	28.90	Taken	Diff	Diff									
														8	0.11	8.9										

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.



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	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	100	9	-7.6	-5.0	-8.1										21	150	1302	24	150	1307	6	100				28.97
15-18Z	0	0	-4.4	-4.2	-8.4										10	70	1459	11	70	1502	6	120				29.01
18-21Z	140	15	-5.4	-2.1	-5.7									7	170	2046	8	160	2046	7	70				29.07	
21-24Z	170	27	-6.9	-6.4	-7.7		1	1				BS	2	36	180	2312	44	170	2345	6	120				29.11	
12 hr Max/Min				-2.1	-8.4																					
00-03Z	170	29	-9.3	-6.8	-10.8	3			SN	2		BS	3	43	180	34	54	180	36	8	0				1	29.17
03-06Z	90	14	-10.2	-10.0	-11.4	1			2 SN	1		BS	2	39	150	311	46	150	311	7	100					29.24
06-09Z	80	10	-5.9	-5.7	-9.9				1 IC	2				19	50	628	25	50	628	7	100					29.20
09-12Z	130	15	-4.2	-4.1	-5.9									16	120	1149	23	140	1148	7	100					29.17
12 hr Max/Min				-4.1	-11.4																					
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
140	15	-2.1	-11.4	-6.8	00-06L	0	0	0	-32.0	-26.0	5	0	7	0.00	180	43	34	180	54	36	7	0	00-06L	0	0	0
					06-12L	0	1	1							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	4	0	2							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	1
					18-24L	0	0	1							29.24	28.97	29.12	Taken	Diff	Diff			18-24L	0	0	0
																		8	0.27	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: 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	160	14	-4.6	-3.6	-5.1										22	140	1159	26	140	1202	7	80				29.16
15-18Z	150	13	-4.0	-2.2	-5.6										20	150	1515	25	150	1515	7	70				29.14
18-21Z	70	9	-4.2	-3.9	-5.0										18	130	1923	23	140	1922	6	70				29.13
21-24Z	340	6	0.4	0.6	-4.1										10	340	2335	13	340	2326	3				29.04	
12 hr Max/Min			0.6	-5.6																						
00-03Z	140	9	-2.6	0.7	-3.0										12	160	225	15	130	241	7	70				29.08
03-06Z	150	7	-4.6	-2.6	-4.8				SN	1					25	180	413	28	180	413	8	60				29.06
06-09Z	160	27	-2.9	-2.9	-4.5		2		SN	3		BS	1		27	160	846	36	170	837	7	60				29.02
09-12Z	160	28	-3.6	-3.1	-3.9	1	2		SN	3		BS	3		36	180	935	47	180	934	7	0	1			29.07
12 hr Max/Min			0.7	-4.8																						
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	Dir	Spd	Time
150	14	0.7	-5.6	-2.5	00-06L	0	0	0	-24.0	-11.0	7	0	4	0.00	180	36	935	180	47	934	7	0	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							29.16	29.02	29.09	8	0.14	6.3			12-18L	0	0	0
					18-24L	1	4	0															18-24L	1	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: 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		<3000	
12-15Z	130	13	-3.0	-2.9	-3.8	1			2	SN	1			BS	3	T	27	160	1200	33	170	1212	7	100				29.15
15-18Z	110	11	-3.0	-2.9	-3.4												15	140	1711	23	130	1717	7	100				29.17
18-21Z	80	13	-1.3	-1.2	-3.0												18	130	1808	29	120	1850	7	100				29.19
21-24Z	90	6	0.8	0.9	-1.1												13	100	2200	21	110	2315	7	150				29.21
12 hr Max/Min				0.9	-3.8																							
00-03Z	90	14	-0.9	1.0	-0.9												16	120	112	23	130	111	2					29.24
03-06Z	50	12	-0.5	-0.3	-1.6												19	50	522	24	40	516	1					29.21
06-09Z	0	0	1.1	1.2	-0.6												16	50	610	21	50	557	1					29.25
09-12Z	270	4	-1.0	0.9	-1.1												8	30	940	10	20	938	1					29.27
12 hr Max/Min				1.2	-1.6																							
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	Dir	Spd	Time	Time	<500
92	9	1.2	-3.8	-1.3		00-06L	1	0	2	-15.0	5.0	1	0	3	0.00	160	27	1200	170	33	1212	4	100	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						29.27	29.15	29.21	8				0.12	5.0			12-18L	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: 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	0	0	-0.9	-0.3	-1.3										5	310	1246	6	310	1245	1				29.28		
15-18Z	300	4	0.2	0.4	-2.4										4	310	1750	5	310	1749	1				29.29		
18-21Z	0	0	2.1	2.7	-0.1										5	320	2006	7	280	1938	1				29.31		
21-24Z	30	19	-4.1	2.3	-4.6										21	30	2334	25	30	2333	2				29.33		
12 hr Max/Min			2.7	-4.6																							
00-03Z	50	15	-4.4	-3.9	-5.8										20	30	231	25	30	224	6	90			29.35		
03-06Z	40	14	-5.7	-4.3	-5.8										18	30	304	23	30	307	7	90			29.37		
06-09Z	50	16	-5.7	-5.6	-6.8										20	30	703	24	50	736	5	90			29.38		
09-12Z	50	13	-5.3	-5.2	-5.7										17	50	950	23	50	949	3				29.39		
12 hr Max/Min			-3.9	-6.8																							

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

Note 2: When 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 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	
40	10	2.7	-6.8	-2.1	00-06L	0	0	0	-22.0	-8.0	0	0	0	0.00	30	21	2334	30	25	2333	3	90	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							29.39	29.28	29.34	8	0.11	9.5			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	<3000	
12-15Z	40	11	-5.2	-5.1	-5.5										16	30	1231	19	40	1315	4				29.39		
15-18Z	60	10	-5.3	-5.2	-6.4										13	60	1550	17	50	1623	6	180			29.41		
18-21Z	60	10	-4.1	-4.1	-5.2										12	50	1820	15	70	1819	5	180			29.44		
21-24Z	20	10	-4.4	-3.4	-4.4										12	60	2106	15	30	2333	3				29.45		
12 hr Max/Min				-3.4	-6.4																						
00-03Z	30	7	-2.9	-2.7	-4.2										11	30	122	13	20	29	2				29.45		
03-06Z	310	5	-0.9	1.0	-3.5										10	20	258	11	320	547	6	150			29.45		
06-09Z	340	7	-3.6	-1.1	-3.6										8	340	850	11	340	849	7	150			29.45		
09-12Z		4	-4.4	-3.5	-4.8										8	320	1102	12	330	1010	6	120			29.44		
12 hr Max/Min				1.0	-4.8																						

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.

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	
30	8	1.0	-6.4	-2.7	00-06L	0	0	0	-16.0	3.0	0	0	0	0.00	30	16	1231	40	19	1315	5	120	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							29.45	29.39	29.44	7	0.06	7.4			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	<3000	
12-15Z	330	4	-3.7	-3.3	-4.6										8	340	1322	12	330	1225	2				29.41		
15-18Z	320	6	-3.8	-3.4	-4.3										8	340	1606	9	330	1748	1				29.39		
18-21Z	310	4	-2.4	-2.1	-3.9										7	320	2016	10	340	1848	2				29.37		
21-24Z	300	4	-1.6	0.4	-3.8										7	100	2304	9	100	2303	1				29.36		
12 hr Max/Min				0.4	-4.6																						
00-03Z		4	-0.7	-0.1	-4.7																						
03-06Z	0	0	0.6	1.1	-1.0																						
06-09Z		4	-1.2	0.8	-1.9																						
09-12Z	0	0	-3.2	-1.2	-5.0																						
12 hr Max/Min				1.1	-5.0																						

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	
316	3	1.1	-5.0	-2.0	00-06L	0	0	0	-9.0	16.0	0	0	0	0.00	70	12	124	70	14	138	1		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			Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
Max			Min			Avg			29.41	29.30	29.35	6	0.11	6.1												



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		3	-3.1	-2.8	-4.7										4	300	1450	6	290	1450	1				29.27	
15-18Z		4	-2.9	-2.8	-3.8										7	320	1700	9	320	1708	0				29.24	
18-21Z	0	0	-1.6	-1.3	-3.3										6	330	1945	9	320	1948	0				29.21	
21-24Z	300	5	-1.8	-0.9	-2.4										7	290	2333	9	280	2321	1				29.18	
12 hr Max/Min				-0.9	-4.7																					
00-03Z	310	5	-0.9	-0.6	-2.0										7	310	245	10	300	59	0				29.15	
03-06Z	0	0	0.9	1.2	-1.2										7	270	407	9	290	325	0				29.12	
06-09Z	0	0	-0.3	1.6	-1.0										7	280	810	8	290	811	0				29.09	
09-12Z	0	0	-2.9	-0.1	-3.1										7	280	1024	8	280	1104	0				29.05	
12 hr Max/Min				1.6	-3.1																					

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			
305	2	1.6	-4.7	-1.6	00-06L	0	0	0	-5.0	23.0	0	0	0	0.00	320	7	1700	300	10	59	0		00-06L	0	0	0		
				06-12L	0	0	0					Altimeter									06-12L	0	0	0				
				12-18L	0	0	0					Total Obs Taken			Daily Pres Diff			Daily Temp Diff			12-18L	0	0	0				
				18-24L	0	0	0					29.27			29.05			29.16			18-24L	0	0	0				
																							6	0.22	6.3			



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	0	-0.6	-0.1	-3.1										7	300	1330	9	300	1329	0				29.02	
15-18Z	0	0	-1.3	0.0	-2.6										3	170	1610	4	270	1744	0				29.00	
18-21Z	0	0	-0.3	0.0	-3.6										8	80	1914	12	80	1909	0				28.96	
21-24Z	170	3	-0.1	2.5	-0.7										8	250	2257	10	30	2235	0				28.92	
12 hr Max/Min				2.5	-3.6																					
00-03Z		6	-0.7	1.0	-1.4										8	300	227	10	310	249					28.86	
03-06Z	310	8	-1.4	-0.5	-1.5										9	320	547	15	300	515	4				28.79	
06-09Z	310	7	-1.9	-1.3	-2.3										10	300	650	13	310	644	6	150			28.70	
09-12Z	0	0	-4.3	-2.0	-4.7										6	310	919	10	270	901	3				28.65	
12 hr Max/Min				1.0	-4.7																					
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
301	3	2.5	-4.7	-1.1	00-06L	0	0	0	-15.0	5.0	0	0	0	0.00	300	10	650	300	15	515	2	150	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						29.02	28.65	28.86	Taken	Diff	Diff							
																7	0.37	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: 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	
12-15Z	0	0	-3.8	-2.4	-5.7										9	90	1401	12	100	1400	0				28.62	
15-18Z	50	10	-3.5	-0.6	-4.4										16	50	1719	18	50	1719	0				28.65	
18-21Z	90	13	-4.2	-3.1	-6.1										17	50	1933	21	90	2004	0				28.70	
21-24Z	140	19	-5.7	-3.2	-5.8										27	140	2329	34	140	2338	1				28.74	
12 hr Max/Min			-0.6	-6.1																						
00-03Z	130	17	-6.3	-5.2	-6.5										29	140	136	36	140	129	1				28.77	
03-06Z	150	24	-5.2	-4.7	-6.7										24	150	545	33	150	316	1				28.81	
06-09Z	90	12	-7.8	-4.6	-7.9										26	150	642	31	160	641	2				28.91	
09-12Z	120	10	-8.8	-6.8	-9.0										19	140	1033	27	150	1101	4				28.95	
12 hr Max/Min			-4.6	-9.0																						

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

Note 2: When 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)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
120	13	-0.6	-9.0	-4.8	00-06L	0	0	0	-29.0	-20.0	0	0	0	0.00	140	29	136	140	36	129	1		00-06L	0	0	0
					06-12L	0	0	0							Altimeter						1		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							28.95	28.62	28.77	8	0.33	8.4			18-24L	0	0	0



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	<1000	
12-15Z	50	11	-8.2	-8.0	-9.1										13	50	1440	22	150	1200	3				28.96	
15-18Z	50	7	-5.4	-5.2	-9.5										14	30	1549	17	30	1546	3				28.98	
18-21Z	0	0	-3.0	-2.7	-5.8										8	30	1831	10	30	1835	6	150			28.99	
21-24Z	300	6	-3.2	-0.6	-3.5										9	310	2321	11	320	2326	7	70			29.01	
12 hr Max/Min				-0.6	-9.5																					
00-03Z	300	4	-2.5	-1.8	-3.3										8	310	230	10	310	229	7	70				29.02
03-06Z	90	7	-3.8	-0.6	-4.2										8	100	526	11	100	522	7	60				29.04
06-09Z	110	5	-4.2	-2.6	-4.2										9	30	644	11	20	643	7	60				29.07
09-12Z	90	5	-5.6	-4.2	-5.6										7	80	1116	10	90	1001	7	70				29.10
12 hr Max/Min				-0.6	-5.6																					
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
56	6	-0.6	-9.5	-5.1	00-06L	0	0	0	-26.0	-15.0	0	0	0	0.00	30	14	1549	150	22	1200	6	60	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	0	0							29.10	28.96	29.02	Taken	Diff	Diff			18-24L	0	0	0
																		8	0.14	8.9						

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.



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		<3000
12-15Z	30	11	-6.9	-5.0	-7.2										16	30	1329	19	30	1331	8	120				29.12	
15-18Z	40	8	-6.3	-6.3	-7.1										12	30	1508	15	50	1525	7	120				29.13	
18-21Z			3	-5.3	-5.2			1	SN		1				11	30	1850	13	60	1916	8	20			3	29.14	
21-24Z	0	0	-3.7	-3.2	-5.2			3	SN		3				T	5	270	2123	6	280	2131	8	20			3	29.15
12 hr Max/Min				-3.2	-7.2																						
00-03Z	0	0	-3.1	-0.9	-3.5			3	SN		3				3	190	216	5	170	143	8	20				3	29.14
03-06Z	0	0	-4.8	-3.4	-6.0	1	2		SN		3			0.03	5	310	504	8	300	458	8	20				3	29.13
06-09Z	320	6	-4.9	-4.0	-5.3				1	SN	1				8	340	828	13	330	826	6	70			1	29.12	
09-12Z	330	10	-6.2	-4.4	-6.8										T	12	340	1148	16	320	1102	7	70			1	29.12
12 hr Max/Min				-0.9	-6.8																						

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
4	5	-0.9	-7.2	-4.1	00-06L	0	0	0	-23.0	-9.0	11	0	0	0.03	30	16	1329	30	19	1331	8	20	00-06L	0	0	0
					06-12L	0	4	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	6
					12-18L	1	5	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	6
					18-24L	0	0	1							29.15	29.12	29.13						18-24L	0	0	1
																		7	0.03	6.3						

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: 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	320	7	-5.9	-5.7	-6.9				SN	1					T	11	320	1250	15	290	1257	7	30			1	29.11
15-18Z	330	5	-5.6	-5.4	-5.9											7	320	1723	11	330	1540	7	100				29.12
18-21Z	320	3	-2.2	-2.1	-5.6											7	310	1836	8	290	1850	6	100				29.13
21-24Z	300	5	-3.2	-1.5	-3.3											6	290	2342	8	310	2343	2					29.13
12 hr Max/Min				-1.5	-6.9																						
00-03Z	350	5	-2.8	-1.9	-3.2											6	300	245	9	300	244	3					29.13
03-06Z	300	7	-3.1	-2.5	-3.3											7	300	544	10	280	419	4					29.14
06-09Z	310	7	-4.9	-2.9	-5.0											8	290	636	11	290	646	7	100				29.16
09-12Z	340	4	-5.2	-4.9	-5.3											7	340	1122	9	300	859	7	100				29.19
12 hr Max/Min				-1.9	-5.3																						
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	
319	5	-1.5	-6.9	-4.2	00-06L	0	0	0	-19.0	-2.0	1	0	0	0.00	320	11	1250	290	15	1257	5	30	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						29.19	29.11	29.14	Taken	Diff	Diff								
																8	0.08	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: 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	310	4	-4.9	-4.7	-5.3										7	330	1320	10	340	1319	7	50				29.22
15-18Z	0	0	-4.7	-4.6	-5.2										5	270	1650	7	320	1559	7	35				29.25
18-21Z		3	-2.7	-2.6	-5.0				SN		3				4	180	2046	5	180	2050	8	35				29.29
21-24Z		6	-3.8	-2.7	-4.4				SN		3			T	9	110	2348	12	100	2214	8	50				29.32
12 hr Max/Min				-2.6	-5.3																					
00-03Z	120	5	-2.9	-2.7	-4.0				1 SN		3				9	100	157	12	100	137	8	50				29.34
03-06Z		6	-3.9	-2.6	-3.9				SN		2			T	12	150	530	18	140	526	8	40				29.37
06-09Z	140	13	-5.0	-3.8	-5.3				SN		2				19	150	836	22	150	836	8	35				29.41
09-12Z	80	11	-6.0	-5.3	-7.1				SN		3			T	150	40	1104	18	40	1105	8	40				29.43
12 hr Max/Min				-2.6	-7.1																					
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
111	6	-2.6	-7.1	-4.9	00-06L	0	0	0	-22.0	-8.0	16	0	0	0.00	40	150	1104	150	22	836	8	35	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	1						Obs	Pres	Temp										
					18-24L	0	0	0						29.43	29.22	29.33	Taken	Diff	Diff							
																5	0.21	4.5								

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: 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	120	5	-5.6	-5.4	-5.8				3	SN	3				10	70	1223	15	70	1222	8	35				29.46
15-18Z	90	8	-6.4	-5.6	-6.7		1	1	SN	3				0.02	11	50	1750	16	50	1749	7	35				29.50
18-21Z	60	16	-8.6	-5.6	-8.7				SN	3					16	60	2050	20	50	2042	7	30		1	29.54	
21-24Z	60	13	-7.7	-7.1	-8.6				SN	2				T	17	50	2333	21	50	2320	7	150				29.56
12 hr Max/Min				-5.4	-8.7																					
00-03Z	0	0	0.4	0.5	-7.8										13	60	2358	16	40	4	3				29.57	
03-06Z	0	0	0.7	0.9	-1.4										5	180	448	7	180	321	3				29.58	
06-09Z	300	4	-2.3	1.0	-2.4										5	300	850	6	310	850					29.59	
09-12Z	340	8	-4.2	-2.4	-4.4										11	340	1113	14	330	1113	1				29.58	
12 hr Max/Min				1.0	-7.8																					
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
55	7	1.0	-8.7	-3.9	00-06L	0	1	4	-26.0	-15.0	11	0	0	0.02	50	17	2333	50	21	2320	5	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						29.59	29.46	29.55	Taken	Diff	Diff							
																8	0.13	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.



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	0	0		-3.5	-4.3										10	340	1258	14	330	1158					
15-18Z	0	0	-0.9	-0.7	-3.5										7	310	1548	11	320	1458	1			29.58	
18-21Z	0	0		0.0	-2.1										3	190	2031	4	160	2038					
21-24Z	60	6	-2.5	0.9	-2.5										7	60	2343	9	60	2350	1			29.61	
12 hr Max/Min			0.9	-4.3																					
00-03Z	0	0		-1.4	-4.0										13	80	249	15	80	248					
03-06Z	60	14	-5.3	-3.8	-5.6										15	60	544	18	60	549	1			29.63	
06-09Z	0	0		-5.5	-7.1										15	60	621	18	50	831					
09-12Z	60	11	-7.8	-7.0	-8.0										17	50	1002	19	50	1015	2			29.65	
12 hr Max/Min			-1.4	-8.0																					

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	
60	4	0.9	-8.0	-3.6	00-06L	0	0	0	-25.0	-13.0	0	0	0	0.00	50	17	1002	50	19	1015	1		00-06L	0	0	0
					06-12L	0	0	0							Altimeter						1		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							29.65	29.58	29.62	8	0.07	8.9			18-24L	0	0	0



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	<1000	
12-15Z	60	12	-8.2	-7.4	-8.4										14	60	1437	17	70	1438	5	150				29.64
15-18Z	70	10	-7.7	-7.5	-8.6										13	60	1521	17	60	1511	6	150				29.64
18-21Z		4	-4.3	-4.0	-7.7										10	60	1806	11	60	1806	7	60				29.64
21-24Z	70	5	-4.3	-4.1	-6.0										9	70	2305	12	60	2258	7	60				29.62
12 hr Max/Min			-4.0	-8.6																						
00-03Z	70	11	-4.8	-3.5	-5.2										11	60	216	14	60	149	7	70				29.59
03-06Z	50	11	-4.9	-4.6	-5.4										13	60	514	16	60	518	7	100				29.58
06-09Z	30	4	-3.2	-3.1	-5.1										13	50	625	15	50	324	7	100				29.57
09-12Z	0	0	-5.7	-2.8	-6.0										7	160	1116	11	160	1116	7	120				29.57
12 hr Max/Min			-2.8	-6.0																						
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
61	7	-2.8	-8.6	-5.7	00-06L	0	0	0	-23.0	-9.0	0	0	0	0.00	60	14	1437	70	17	1438	7	60	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						29.64	29.57	29.61	Taken	Diff	Diff							
																7	0.07	5.8								

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: 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	<1000	
12-15Z	60	9	-6.7	-3.3	-7.2										11	50	1442	13	50	1442	6	150				29.55
15-18Z	80	11	-9.6	-6.6	-10.0										18	60	1726	24	50	1725	6	150				29.55
18-21Z	60	12	-6.9	-6.0	-9.5										16	60	1916	21	50	1916	6	150				29.51
21-24Z	40	6	-5.3	-5.0	-7.0										13	50	2135	17	50	2132	6	90				29.48
12 hr Max/Min				-3.3	-10.0																					
00-03Z		5	-6.4	-5.0	-6.6										11	120	228	17	150	220	7	90				29.44
03-06Z	90	19	-7.0	-6.2	-7.2										15	130	403	20	150	412	7	80				29.40
06-09Z	50	14	-6.9	-6.5	-7.2										15	80	749	20	90	806	7	80				29.36
09-12Z	50	10	-6.9	-6.5	-7.3				-SN	1				T	15	50	1020	18	50	1026	7	90				29.30
12 hr Max/Min				-5.0	-7.3																					
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)			
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	<3000
65	11	-3.3	-10.0	-6.7	00-06L	0	0	0	-23.0	-9.0	1	0	0	0.00	60	18	1726	50	24	1725	7	80	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	0	0							29.55	29.30	29.45	Taken	Diff	Diff			18-24L	0	0	0
																		7	0.25	6.7						

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.



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	130	10	-8.8	-5.5	-8.9										12	40	1235	14	40	1229	6	110				29.28	
15-18Z	110	12	-9.4	-8.8	-9.6										16	150	1603	19	140	1647	3					29.28	
18-21Z	90	12	-5.5	-5.7	-9.4										14	80	1813	21	70	1926	6	100				29.22	
21-24Z	310	6	-1.9	-0.1	-5.9										14	80	2059	17	80	2145	7	100				29.15	
12 hr Max/Min				-0.1	-9.6																						
00-03Z	140	17	-4.2	-0.1	-3.7										21	170	148	28	180	147	7	100					29.10
03-06Z	120	11	-4.5	-3.6	-4.7										25	150	358	29	150	358	7	180					29.11
06-09Z	130	11	-5.1	-3.9	-5.1										17	140	746	28	140	622	7	180					29.10
09-12Z	12	14	-5.2	-4.7	-5.5										22	120	1125	31	140	1049	7	180					29.06
12 hr Max/Min				-0.1	-5.5																						
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	
108	12	-0.1	-9.6	-4.9	00-06L	0	0	0	-22.0	-8.0	0	0	0	0.00	150	25	358	140	31	1049	6	100	00-06L	0	0	0	
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0	
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0	
					18-24L	0	0	0							29.28	29.06	29.16	Taken	Diff	Diff			18-24L	0	0	0	
																		8	0.22	9.5							

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 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
												0.00																		
													Altimeter																	
													Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff												
																0			00-06L	06-12L	12-18L	18-24L	0	0	0	0	0	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.



	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	40	12	0	0	0	0	0	0	30	12	40	8	80	7	140	7	100	12	100	10	170	21	140	14	100	9	160	14	130	13
15-18Z	50	16	0	0	20	5	310	6	150	7	150	20	90	9	60	10	120	17	110	7	70	12	170	28	0	0	150	13	110	11
18-21Z	40	10	0	0	0	0	310	4	140	13	90	8	150	31	140	15	110	10	30	12	80	13	80	8	140	15	70	9	80	13
21-24Z	30	12	0	0	0	0	0	0	0	0	100	12	150	20	120	14	80	7	170	4	50	15	150	16	170	27	340	6	90	6
00-03Z	0	0	300	7	0	0	30	11	150	12	130	15	120	9	100	11	70	8	250	3	130	22	100	10	170	29	140	9	90	14
03-06Z	180	3	300	5	180	3	150	12	20	10	140	19	130	9	120	8	120	13		3	150	35	0	0	90	14	150	7	50	12
06-09Z	90	5	260	3	0	0	140	15	60	12	150	23	130	8	120	9	130	13	160	11	110	11	90	8	80	10	160	27	0	0
09-12Z	0	0	0	0	350	3	40	12	50	12	120	11	130	7	120	15	90	9	150	17	50	5	70	7	130	15	160	28	270	4
X*u / X*v	7.713	9.193	0	0	0	0	0	0	6	10.39	5.142	6.128	6.894	1.216	4.5	-5.36	11.82	-2.08	9.848	-1.74	3.647	-20.7	8.999	-10.7	8.863	-1.56	4.788	-13.2	9.959	-8.36
X*u / X*v	12.26	10.28	0	0	1.71	4.698	-4.6	3.857	3.5	-6.06	10	-17.3	9	6E-16	8.66	5	14.72	-8.5	6.578	-2.39	11.28	4.104	4.862	-27.6	0	0	6.5	-11.3	10.34	-3.76
X*u / X*v	6.428	7.66	0	0	0	0	-3.06	2.571	8.356	-9.96	8	5E-16	15.5	-26.8	9.642	-11.5	9.397	-3.42	6	10.39	12.8	2.257	7.878	1.389	9.642	-11.5	8.457	3.078	12.8	2.257
X*u / X*v	6	10.39	0	0	0	0	0	0	0	0	11.82	-2.08	10	-17.3	12.12	-7	6.894	1.216	0.695	-3.94	11.49	9.642	8	-13.9	4.689	-26.6	-2.05	5.638	6	4E-16
X*u / X*v	0	0	-6.06	3.5	0	0	5.5	9.526	6	-10.4	11.49	-9.64	7.794	-4.5	10.83	-1.91	7.518	2.736	-2.82	-1.03	16.85	-14.1	9.848	-1.74	5.036	-28.6	5.785	-6.89	14	9E-16
X*u / X*v	4E-16	-3	-4.33	2.5	4E-16	-3	6	-10.4	3.42	9.397	12.21	-14.6	6.894	-5.79	6.928	-4	11.26	-6.5			17.5	-30.3	0	0	14	9E-16	3.5	-6.06	9.193	7.713
X*u / X*v	5	3E-16	-2.95	-0.52	0	0	9.642	-11.5	10.39	6	11.5	-19.9	6.128	-5.14	7.794	-4.5	9.959	-8.36	3.762	-10.3	10.34	-3.76	8	5E-16	9.848	1.736	9.235	-25.4	0	0
X*u / X*v	0	0	0	0	-0.52	2.954	7.713	9.193	9.193	7.713	9.526	-5.5	5.362	-4.5	12.99	-7.5	9	6E-16	8.5	-14.7	3.83	3.214	6.578	2.394	11.49	-9.64	9.577	-26.3	-4	-0
Sum u/Sum v	37.4	34.53	-13.3	5.479	1.189	4.653	21.19	3.264	46.86	7.09	79.69	-62.9	67.57	-62.9	73.47	-36.8	80.57	-24.9	32.56	-23.8	87.74	-49.7	54.17	-50.1	63.57	-76.1	45.79	-80.3	58.29	-2.15
Arctan	47.28		-67.7		14.34		81.25		81.4		128.3		132.9		116.6		107.2		126.1		119.5		132.8		140.1		150.3		92.11	
Direction	47.28		292.3		14.34		81.25		81.4		128.3		132.9		116.6		107.2		126.1		119.5		132.8		140.1		150.3		92.11	
Magnitude	7.25		2		1		8		10		15		13		11		11		8		18:00		11		15		14		9	

Avg Wind

		sin	cos
1	X*u / X*v	5.327	4.918
2	X*u / X*v	-1.735	0.712
3	X*u / X*v	0.340	1.332
4	X*u / X*v	7.413	1.141
5	X*u / X*v	9.640	1.458
6	X*u / X*v	11.382	-8.983
7	X*u / X*v	9.151	-8.515
8	X*u / X*v	9.949	-4.978
9	X*u / X*v	10.629	-3.286
10	X*u / X*v	6.765	-4.937
11	X*u / X*v	14.576	-8.253
12	X*u / X*v	8.350	-7.725
13	X*u / X*v	9.536	-11.417
14	X*u / X*v	6.994	-12.272
15	X*u / X*v	9.119	-0.336
16	X*u / X*v	6.550	7.721
17	X*u / X*v	3.984	6.937
18	X*u / X*v	-2.275	2.321
19	X*u / X*v	-1.741	1.219
20	X*u / X*v	-2.562	1.562
21	X*u / X*v	11.399	-6.506
22	X*u / X*v	4.650	3.166
23	X*u / X*v	0.293	4.741
24	X*u / X*v	-3.513	4.068
25	X*u / X*v	5.590	-2.180
26	X*u / X*v	5.559	3.829
27	X*u / X*v	3.356	1.938
28	X*u / X*v	6.212	3.490
29	X*u / X*v	9.760	4.505
30	X*u / X*v	11.073	-3.538
31	X*u / X*v		
	Sum u/Sum v	175.771	-27.867
	Arctan	99.009	
	Direction	99.0	
	Magnitude	8.4375	

Station:
NZCM

Monthly Climatology / Page 1

Month:
2001

Date	Temp (C)			Visibility (hrs)															WX and Duration				Pcpn	Avg Wind		Max Wind		Max	
	Max	Min	Avg	< 1600					< 4800					< 9999					sn/sg/ic	fg/br	bs	Total	Amt	Spd	Dir	Spd	Dir	Gust	
	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	-8.6	-19.4	-14.0	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	0.00	0.00	2.00	0.00	0.00	2.00	0.00	7	47	21	40	26
2	-4.3	-14.9	-9.6	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	0.00	2	292	9	290	10
3	-8.0	-17.2	-12.6	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	0.00	1	14	9	20	12
4	-6.7	-18.7	-12.7	0.00	0.00	2.00	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	2.00	7.00	0.00	0.00	7.00	0.00	8	81	22	150	27	
5	-6.7	-12.8	-9.8	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	5.00	0.00	1.00	2.00	0.00	3.00	10.00	0.00	0.00	10.00	0.02	10	81	22	50	26	
6	-10.6	-15.1	-12.9	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	2.00	2.00	3.00	0.00	4.00	7.00	0.00	15	128	30	150	33	
7	-11.1	-14.8	-13.0	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	0.30	13	133	40	150	48	
8	-10.4	-14.4	-12.4	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	117	21	140	40	
9	-7.9	-16.1	-12.0	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	0.00	0.00	0.00	0.00	0.00	0.00	11	107	25	130	34	
10	-5.5	-13.3	-9.4	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	126	20	180	26	
11	-5.6	-10.8	-8.2	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	17	120	36	150	41	
12	0.1	-8.8	-4.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	11	133	31	150	37	
13	-2.1	-11.4	-6.8	0.00	0.00	4.00	0.00	4.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	2.00	1.00	4.00	5.00	0.00	7.00	12.00	0.00	15	140	43	180	54	
14	0.7	-5.6	-2.5	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	4.00	4.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	4.00	11.00	0.00	14	150	36	180	47	
15	1.2	-3.8	-1.3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	1.00	0.00	3.00	4.00	0.00	9	92	27	160	33	
16	2.7	-6.8	-2.1	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	10	40	21	30	25	
17	1.0	-6.4	-2.7	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	8	30	16	30	19	
18	1.1	-5.0	-2.0	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	0.00	0.00	0.00	0.00	0.00	0.00	3	316	12	70	14	
19	1.6	-4.7	-1.6	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	305	7	320	10	
20	2.5	-4.7	-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	0.00	0.00	0.00	0.00	0.00	3	301	10	300	15	
21	-0.6	-9.0	-4.8	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	13	120	29	140	36	
22	-0.6	-9.5	-5.1	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	6	56	14	30	22	
23	-0.9	-7.2	-4.1	0.00	0.00	1.00	0.00	1.00	0.00	4.00	5.00	0.00	9.00	0.00	0.00	0.00	1.00	1.00	11.00	0.00	0.00	11.00	0.03	5	4	16	30	19	
24	-1.5	-6.9	-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	1.00	0.00	0.00	1.00	0.00	5	319	11	320	15	
25	-2.6	-7.1	-4.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	16.00	0.00	0.00	16.00	0.00	6	111	150	40	22	
26	1.0	-8.7	-3.9	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	4.00	0.00	0.00	0.00	4.00	11.00	0.00	0.00	11.00	0.02	7	55	17	50	21	
27	0.9	-8.0	-3.6	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	4	60	17	50	19	
28	-2.8	-8.6	-5.7	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	7	61	14	60	17	
29	-3.3	-10.0	-6.7	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	1.00	0.00	0.00	1.00	0.00	11	65	18	60	24	
30	-0.1	-9.6	-4.9	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	12	108	25	150	31	
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	Avg Wind		Max Wind		Max
Max	Min	Avg	< 1600					< 4800					< 9999					sn/sg/ic	fg/br	bs	Total	Total	Dir	Spd	Dir	Spd	Gust
2.7	-19.4	-6.6	1.0	0.0	7.0	2.0	7.0	6.0	7.0	7.0	6.0	4.0	5.0	5.0	78.0	0.0	19.0	97.0	0.37	99	8	40	150	54			

Total Hrs =or< 1600:	10.0	Total Hrs =or< 4800:	27.0	Total Hrs < 9999:	20.0
Total Days =or< 1600:	6	Total Days =or< 4800:	9	Total Days < 9999:	9
% Hrs =or< 1600:	0.0	% Hrs =or< 4800:	0.0	% Hrs < 9999:	0.0
% Days =or< 1600:	0.2	% Days =or< 4800:	0.3	% Days < 9999:	0.3

Total Hrs	sn/sg/ic:	78.0
	fg/br:	0.0
	fg:	19.0
Total Days	sn/sg/ic:	13
	fg/br:	0
	fg:	5



Station:
NZCM

Monthly Climatology / Page 2

Month:
2001

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	7	55	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	29.14	28.71	28.92	8	0.43	10.8	-42.0	
2	6	150	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	28.66	28.51	28.57	8	0.15	10.6	-20.0	
3	5	150	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	28.53	28.50	28.52	8	0.03	9.2	-29.0	
4	8	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	1.00	9.00	28.49	28.43	28.45	8	0.06	12.0	-32.0	
5	8	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	28.58	28.44	28.50	8	0.14	6.1	-35.0	
6	8	15	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	4.00	4.00	28.76	28.57	28.69	8	0.19	4.5	-39.0	
7	8	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	0.00	0.00	0.00	28.86	28.72	28.79	8	0.14	3.7	-40.0	
8	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	28.93	28.86	28.90	8	0.07	4.0	-31.0	
9	5	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	28.96	28.86	28.92	8	0.10	8.2	-33.0	
10	6	70	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	28.85	28.77	28.79	7	0.08	7.8	-28.0	
11	6	70	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	28.98	28.76	28.86	8	0.22	5.2	-30.0	
12	6	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	28.94	28.83	28.90	8	0.11	8.9	-30.0	
13	7	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	1.00	1.00	29.24	28.97	29.12	8	0.27	9.3	-32.0	
14	7	0	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16	29.02	29.09	8	0.14	6.3	-24.0	
15	4	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	29.27	29.15	29.21	8	0.12	5.0	-15.0	
16	3	90	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	29.28	29.34	8	0.11	9.5	-22.0	
17	5	120	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	29.45	29.39	29.44	7	0.06	7.4	-16.0	
18	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	29.41	29.30	29.35	6	0.11	6.1	-9.0	
19	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	0.00	29.27	29.05	29.16	6	0.22	6.3	-5.0	
20	2	150	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	29.02	28.65	28.86	7	0.37	7.2	-15.0	
21	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	28.95	28.62	28.77	8	0.33	8.4	-29.0	
22	6	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	29.10	28.96	29.02	8	0.14	8.9	-26.0	
23	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	1.00	13.00	29.15	29.12	29.13	7	0.03	6.3	-23.0	
24	5	30	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	29.19	29.11	29.14	8	0.08	5.4	-19.0	
25	8	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	29.43	29.22	29.33	5	0.21	4.5	-22.0	
26	5	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	1.00	0.00	1.00	29.59	29.46	29.55	8	0.13	9.7	-26.0	
27	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	29.65	29.58	29.62	8	0.07	8.9	-25.0	
28	7	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	29.64	29.57	29.61	7	0.07	5.8	-23.0	
29	7	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	29.55	29.30	29.45	7	0.25	6.7	-23.0	
30	6	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	29.28	29.06	29.16	8	0.22	9.5	-22.0	
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	1.0	0.0	0.0	0.0	0.0	0.0	1.0	11.0	11.0	6.0	29.65	28.43	29.04	227	-42.0		
Total Hrs =or< 500: 1.0					Total Hrs =or< 1000: 0.0					Total Hrs =or< 3000: 29.0					Total Days: 30					
Total Days =or< 500: 1					Total Days =or< 1000: 0					Total Days =or< 3000: 6										
% 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										