

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	<3000
12-15Z				-27.6	-28.6										3	50	1229	4	160	1308							
15-18Z		0	-28.1	-27.6	-30.3										6	80	1545	7	80	1538	1			28.88			
18-21Z				-28.0	-30.9										3	180	1936	3	160	1941							
21-24Z		0	-27.8	-26.6	-31.6										4	170	2257	4	170	2257	0			28.78			
12 hr Max/Min				-26.6	-31.6																						
00-03Z				-24.0	-27.6										4	190	230	5	190	230							
03-06Z	330	5	-25.2	-24.2	-29.5										6	330	549	9	320	534	3			28.70			
06-09Z				-24.2	-29.1										8	330	609	11	320	607							
09-12Z	0	0	-29.9	-26.8	-30.6										5	310	921	6	310	1006	0			28.70			
12 hr Max/Min				-24.0	-30.6																						
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	Time	<500	<1000	<3000
330		1	-24.0	-31.6	-27.8	00-06L	0	0	0	-36.0	-33.0	0	0	0	0.00	330	8	609	320	11	607	1		00-06L	0	0	0
						06-12L	0	0	0							Altimeter			Total Obs	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							28.88	28.70	28.77						18-24L	0	0	0
																			2	0.18	7.6						

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

Note 2: When 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.

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)	
	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
12-15Z					-26.0	-30.6										7	340	1409	11	10	1348						
15-18Z	300		7	-21.1	-19.8	-27.0									8	310	1748	13	310	1750	8	30			4	28.66	
18-21Z					-14.3	-21.4									23	160	2045	28	160	2045							
21-24Z	160		17	-13.8	-13.6	-14.5	4			sn		5			0.01	22	160	2239	27	160	2238	8	30			6	28.74
12 hr Max/Min					-13.6	-30.6																					
00-03Z					-13.5	-17.4									25	150	2357	39	130	20							
03-06Z	70		17	-24.8	-17.0	-26.6	6			sn		6			0.01	21	70	546	28	90	444	8	20			6	28.91
06-09Z					-17.5	-25.5									22	130	819	31	150	819							
09-12Z	110		12	-20.7	-17.0	-20.9	6			sn		6			0.01	20	120	1041	32	150	1040	8	20			6	29.10
12 hr Max/Min					-13.5	-26.6																					

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.

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	Time	<1600	<4800	<9999	C		F	sn/sg/ic	fg/br	bs	Dir	Spd			Time	Dir	Spd	Time	Time	<500
112	13	-13.5	-30.6	-22.1	00-06L	0	0	0	-52.0	-62.0	17	0	0	0.03	150	25	2357	130	39	20	8	20	00-06L	0	0	4
					06-12L	4	0	0							Altimeter								06-12L	0	0	6
					12-18L	6	0	0							Total Obs								12-18L	0	0	6
					18-24L	6	0	0							Max								18-24L	0	0	6
															29.10	28.66	28.85	Total Pres	Daily Diff	Daily Temp						
																		4	0.44	17.1						



McMurdo Station Daily Observation Worksheet

Date: 03

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn 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				-20.6	-21.7										26	130	1304	37	130	1245							
15-18Z	80	14	-20.6	-20.5	-22.0	2	4		SN		4			6	0.02	23	130	1459	35	130	1458	8	20		6	29.27	
18-21Z				-19.5	-21.6										20	50	2009	24	50	2008							
21-24Z	70	10	-19.8	-18.3	-21.0		6							6	18	50	2113	22	50	2113	8	20		6	29.34		
12 hr Max/Min				-18.3	-22.0																						
00-03Z				-17.4	-19.7										10	150	40	14	130	30							
03-06Z		0	-18.1	-16.1	-18.2		3						BS	3		3	70	446	4	250	358	6	100		3	29.34	
06-09Z				-18.3	-19.9										8	100	844	9	100	849							
09-12Z	80	8	-17.2	-16.8	-22.0										13	60	1133	16	70	1132	3				29.27		
12 hr Max/Min				-16.1	-22.0																						
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn	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	
77	8	-16.1	-22.0	-19.1	00-06L	2	4	0	-49.0	-56.0		4	0	15	0.02	130	26	1304	130	37	1245	6	20	00-06L	0	0	6
					06-12L	0	6	0							Altimeter									06-12L	0	0	6
					12-18L	0	3	0							Max			Total	Daily	Daily				12-18L	0	0	3
					18-24L	0	0	0							29.34			Obs	Pres	Temp				18-24L	0	0	0
																	3	0.07	5.9								

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: 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				-14.3	-18.4										7	30	1241	12	30	1246						
15-18Z	70	3	-17.2	-14.1	-19.3										6	60	1737	9	170	1726	8	80			29.23	
18-21Z				-13.6	-17.0										16	60	2023	22	50	2020						
21-24Z		0	-13.4	-13.1											10	50	2108	13	50	2107	8	80			29.12	
12 hr Max/Min				-13.1	-19.3																					
00-03Z				-12.5	-16.3										12	50	237	14	50	236						
03-06Z	140	8	-12.1	-11.6	-13.5										15	50	346	18	40	345	7	40			29.12	
06-09Z				-11.4	-13.9										16	130	711	22	150	710						
09-12Z	90	11	-14.5	-12.9	-14.7										20	150	1013	28	150	1012	8	40			29.10	
12 hr Max/Min				-11.4	-16.3																					
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	Sky Cover	CIG	Time	<500	<1000	<3000
105	6	-11.4	-19.3	-15.4	00-06L	0	0	0	-37.0	-35.0	0	0	0	0.00	150	20	1013	150	28	1012	8	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									Taken	Diff	Diff							
																	3	0.13	7.9							

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: 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)
	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					-14.2	-14.9									16	90	1346	25	100	1357						
15-18Z		70	13	-16.3	-14.0	-16.6									18	60	1709	23	50	1723	7	40			29.05	
18-21Z					-14.9	-16.3									14	60	1757	18	60	1826						
21-24Z		110	4	-13.7	-13.7	-14.9				sn	3				T	12	50	2212	14	50	2213	8	20			2 29.05
12 hr Max/Min					-13.7	-16.6																				
00-03Z					-13.6	-15.6									15	50	223	19	40	216						
03-06Z			0	-14.6	-13.6	-15.5				SN	1				T	14	30	322	19	30	257	6	80			3 29.02
06-09Z					-15.1	-20.1									13	90	709	17	90	708						
09-12Z			0	-17.8	-17.3	-19.2									4	30	1027	5	40	1023	6	20			2 29.02	
12 hr Max/Min					-13.6	-20.1																				

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	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	
79	4	-13.6	-20.1	-16.9	00-06L	0	0	0	-37.0	-35.0	4	0	0	0.00	60	18	1709	100	25	1357	7	20	00-06L	0	0	0	
					06-12L	0	0	0				Altimeter			Total Obs	Daily Pres	Daily Temp				06-12L	0	0	2			
					12-18L	0	0	0				Max			29.05	29.02	29.04	Diff	Diff	Diff				12-18L	0	0	3
					18-24L	0	0	0							2	0.03	6.5				18-24L	0	0	2			



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)
	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					-16.8	-18.9									3	10	1426	4	310	1325						
15-18Z			0	-20.7	-17.7	-21.0									5	310	1621	8	330	1618	2			1	29.01	
18-21Z					-19.0	-25.8									20	80	2050	24	80	80						
21-24Z		60	21	-23.9	-23.9	-26.3									25	60	2306	31	50	50	6	40			29.20	
				12 hr Max/Min		-16.8	-26.3																			
00-03Z					-21.2	-23.9									23	60	102	30	50	2035						
03-06Z			0	-21.6	-21.1	-24.1									17	60	311	23	70	302	0				29.37	
06-09Z					-18.4	-26.9									10	350	850	14	340	850						
09-12Z		330	4	-20.3	-18.0	-21.5									14	340	1005	21	340	915	6	150			29.41	
				12 hr Max/Min		-18.0	-26.9																			
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	Sky Cover	CIG	Time	<500	<1000	<3000
49	6	-16.8	-26.9	-21.9	00-06L	0	0	0	-59.0	-74.0	0	0	0	0.00	60	25	2306	50	31	50	4	40	00-06L	0	0	1
					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							
																	2	0.40	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.

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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				-18.2	-19.7										11	320	1303	15	320	1249						
15-18Z		0	-19.2	-19.0	-19.9				sn	1					3	80	1731	4	310	1634	8	20			5	29.22
18-21Z				-18.7	-19.6										6	50	2050	8	50	2047						
21-24Z	80	7	-18.5	-18.5	-19.1				SN	6					11	30	2228	13	30	2226	8	20			6	28.99
12 hr Max/Min				-18.2	-19.9																					
00-03Z				-18.5	-19.0										12	70	112	13	50	247						
03-06Z	100	10	-23.2	-18.4	-23.9				SN	2					13	110	510	17	90	542	6	40			2	28.88
06-09Z				-22.2	-23.8										22	50	825	28	60	825						
09-12Z	80	8	-23.3	-22.4	-23.5										18	50	1127	23	40	1133	5	150				28.89
12 hr Max/Min				-18.4	-23.9																					

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	
88	6	-18.2	-23.9	-21.1	00-06L	0	0	0	-52.0	-62.0	9	0	0	0.00	50	22	825	60	28	825	7	20	00-06L	0	0	5
					06-12L	0	0	0							Altimeter								06-12L	0	0	6
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	2
					18-24L	0	0	0							29.22	28.88	29.00	3	0.34	5.7			18-24L	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: 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)
	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				-23.3	-23.9										16	60	1432	19	60	1446						
15-18Z	90	8	-21.5	-21.0	-23.6										16	50	1508	18	70	1514	6	150			28.93	
18-21Z				-20.9	-22.0										12	80	2050	15	90	2050						
21-24Z	60	12	-21.7	-20.3	-21.7										16	70	2312	19	60	2310	1				28.92	
12 hr Max/Min				-20.3	-23.9																					
00-03Z				-20.8	-22.5										18	30	235	22	30	224						
03-06Z	40	12	-22.6	-21.6	-23.1	1			sn	1			bs	1	T						8	10		1	28.90	
06-09Z				-22.6	-26.3										22	60	838	28	50	837						
09-12Z	60	16	-25.9	-24.9	-26.6										26	50	1023	28	50	1100	8	70		3	28.88	
12 hr Max/Min				-20.8	-26.6																					
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
60	12	-20.3	-26.6	-23.5	00-06L	0	0	0	-57.0	-71.0	1	0	1	0.00	50	26	1023	50	28		6	10	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	1	0	0						Obs	Pres	Temp										
					18-24L	0	0	0						Taken	Diff	Diff										
														28.93	28.88	28.91	4	0.05	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.

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McMurdo Station Daily Observation Worksheet

Date: 09

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn			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	Amt	Spd	Dir	Time	Spd	Dir	Time	<500			<1000	<3000		
12-15Z				-25.5	-26.5											21	50	1229	26	50	1228							
15-18Z	70	6	-23.4	-23.2	-26.0				SN	2					T	16	50	1515	20	60	1601	8	30			3	28.93	
18-21Z				-23.0	-26.8											10	90	1810	12	90	1810							
21-24Z		0	-23.2	-22.1	-25.4				SN	1					T	5	50	21	6	110	2204	2				2	29.04	
12 hr Max/Min				-22.1	-26.8																							
00-03Z				-22.7	-27.7											6	40	42	7	190	58							
03-06Z		0	-26.2	-23.2	-28.1											4	40	441	4	160	503	8	30			3	29.17	
06-09Z				-23.7	-25.9											3	320	831	3	170	842							
09-12Z	350	3	-22.8	-22.4	-25.7											4	340	1112	6	320	1048	0				2	29.29	
12 hr Max/Min				-22.4	-28.1																							
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		
46	2	-22.1	-28.1	-25.1	00-06L	0	0	0	-54.0	-65.0	3	0	0	0.00	50	21	1229	50	26	1228	5	30	00-06L	0	0	3		
					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									
																	2	0.36	6.0									

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: 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				-23.8	-29.2										3	20	1450	3	10	1450						
15-18Z	10	3	-23.7	-23.4	-24.5										3	360	1750	5	20	1734	1				29.39	
18-21Z				-23.6	-24.4										5	60	1859	5	70	1900						
21-24Z		0	-24.0	-23.6	-24.1										3	20	2340	4	10	2243	4				29.48	
12 hr Max/Min				-23.4	-29.2																					
00-03Z				-23.2	-24.0										3	40	250	5	20	134						
03-06Z		0	-24.4	-23.5	-25.3										4	360	508	5	350	508	3				29.55	
06-09Z				-23.2	-25.1										6	80	850	7	80	850						
09-12Z	80	5	-25.3	-22.5	-28.1										10	90	1049	13	100	1044	2				29.62	
12 hr Max/Min				-22.5	-28.1																					
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
55	2	-22.5	-29.2	-25.9	00-06L	0	0	0	-41.0	-42.0	0	0	0	0.00	90	10	1049	100	13	1044	3		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										
														29.62	29.39	29.51	2	0.23	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: 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				-23.5	-28.8										12	90	1317	15	90	1321						
15-18Z	0	0	-24.2	-22.9	-26.0										8	90	1650	9	90	1650	3					29.65
18-21Z				-22.8	-28.4										8	90	2035	9	90	2034						
21-24Z	110	6	-21.7	-21.3	-22.7										10	90	2226	13	90	2225	3					29.62
12 hr Max/Min				-21.3	-28.8																					
00-03Z				-21.5	-26.5										22	30	245	27	30	245						
03-06Z	50	17	-28.1	-25.0	-28.3										22	30	338	27	30	245	0					29.49
06-09Z				-26.2	-28.7										20	40	823	25	40	810						
09-12Z	40	10	-26.4	-25.8	-27.1										17	30	1033	22	40	1023	0					29.32
12 hr Max/Min				-21.5	-28.7																					
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	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
57	8	-21.3	-28.8	-25.1	00-06L	0	0	0	-57.0	-71.0	0	0	0	0.00	30	22	245	30	27	245	2		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					29.65			29.32	29.52				12-18L	0	0	0			
				18-24L	0	0	0								4	0.33	7.5				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				-25.1	-29.3										12	40	1233	15	30	1232						
15-18Z		0	-25.7	-25.4	-28.2										3	90	1458	4	90	1457	7	20			3	29.07
18-21Z				-25.0	-26.6										4	110	2002	5	80	1957						
21-24Z	80	4	-25.7	-25.0	-25.9				SN	4					5	90	2347	6	90	2347	7	20			6	28.89
12 hr Max/Min				-25.0	-29.3																					
00-03Z				-25.0	-27.0										5	340	212	8	330	211						
03-06Z	80	4	-27.3	-25.9	-27.4				SN	1					7	80	505	8	80	515	2				3	28.77
06-09Z				-27.3	-28.1										8	80	741	10	80	743						
09-12Z	80	5	-26.3	-26.0	-28.1										8	70	950	10	70	949	0					28.80
12 hr Max/Min				-25.0	-28.1																					
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
80	3	-25.0	-29.3	-27.2	00-06L	0	0	0	-44.0	-47.0	5	0	0	0.00	40	12	1233	30	15	1232	4	20	00-06L	0	0	3
					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										
														3	0.30	4.3										

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	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z				-26.1	-31.4										19	60	1406	24	50	1405						
15-18Z	70	11	-29.3	-29.2	-30.3										20	50	1537	25	50	1458	0				28.93	
18-21Z				-27.2	-29.3										13	70	1816	17	70	1813						
21-24Z		0	-27.8	-26.5	-28.0										6	240	2057	7	220	2057	6	150			29.01	
12 hr Max/Min				-26.1	-31.4																					
00-03Z				-26.6	-30.3										5	130	31	8	170	30						
03-06Z	290	5	-26.2	-25.7	-28.6										5	280	546	6	280	546	7	150			29.02	
06-09Z				-26.5	-29.3										3	360	846	5	10	832						
09-12Z	340	9	-24.1	-24.0	-30.0										10	340	1116	13	350	1115	2				28.92	
12 hr Max/Min				-24.0	-30.3																					

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
10		6	-24.0	-31.4	-27.7	00-06L	0	0	0	-57.0	-71.0	0	0	0	0.00	50	20	1537	50	25	1458	4	150	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							29.02	28.92	28.97	3	0.10	7.4			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: 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				-23.4	-24.1										13	340	1427	18	330	1441						
15-18Z	340	8	-23.4	-23.2	-23.9										15	340	1543	21	340	1550	5	150			28.80	
18-21Z				-23.0	-23.5										13	330	1845	18	340	2022						
21-24Z		0	-27.3	-23.2	-27.9										11	340	2115	16	340	2104	7	70			28.84	
12 hr Max/Min				-23.0	-27.9																					
00-03Z				-24.7	-27.2										6	90	149	8	80	147						
03-06Z		0	-24.4	-23.2	-25.2	3			sn		3			0.01	6	90	350	8	90	348	8	30			4	28.93
06-09Z				-22.4	-25.6										12	80	850	14	90	849						
09-12Z	100	5	-22.2	-21.8	-27.2	4			sn		6			T	14	90	921	17	110	920	8	30			6	28.95
12 hr Max/Min				-21.8	-27.2																					

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	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
18	3	-21.8	-27.9	-24.9	00-06L	0	0	0	-44.0	-47.0	9	0	0	0.01	340	15	1543	340	21	1550	7	30	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	3	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	4
					18-24L	4	0	0							28.95	28.80	28.88						18-24L	0	0	6
																		2	0.15	6.1						



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				-22.2	-24.6										13	90	1440	16	900	1439						
15-18Z	60	20	-29.3	-22.3	-29.7	6									19	50	1737	25	50	1736	8	10		4	2	29.00
18-21Z				-28.4	-29.9										25	50	1941	30	60	1940						
21-24Z	60	19	-31.1	-35.6	-28.3	6									20	90	2248	26	90	2246	8	10		6		29.19
12 hr Max/Min				-22.2	-29.9																					
00-03Z				-26.0	-30.7										20	60	7	27	60	49						
03-06Z	100	9	-23.3	-23.0	-26.1	6									14	80	349	21	90	433	8	10		6		29.18
06-09Z				-21.1	-22.9										14	70	851	20	130	657						
09-12Z		0	-20.1	-19.7	-21.9	6									11	30	927	16	60	908	8	10		6		29.14
12 hr Max/Min				-19.7	-30.7																					
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
67	12	-19.7	-30.7	-25.2	00-06L	6	0	0	-59.0	-74.0	0	0	0	0.00	50	25	1941	60	30	1940	8	10	00-06L	0	4	2
					06-12L	6	0	0						Altimeter			Total	Daily	Daily							
					12-18L	6	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	6	0	0						29.19	29.00	29.13	Taken	Diff	Diff							
																3	0.19	11.0								

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				-20.3	-24.9										7	190	1406	11	190	1414						
15-18Z		0	-21.2	-19.2	-23.7										7	90	1624	9	100	1608	5	150			29.11	
18-21Z				-17.5	-24.2										9	110	1944	13	120	1949						
21-24Z	130	6	-18.5	-17.5	-19.4										15	140	2130	19	130	2129	8	120			29.13	
12 hr Max/Min				-17.5	-24.9																					
00-03Z				-15.3	-18.8										11	110	244	16	130	237						
03-06Z	120	7	-13.2	-13.2	-15.8										13	130	430	17	170	430	7	120			29.08	
06-09Z				-12.6	-13.6										11	80	709	16	110	729						
09-12Z	80	8	-16.7	-13.5	-17.6										13	60	1113	18	50	1121	3				29.08	
12 hr Max/Min				-12.6	-18.8																					
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
108	5	-12.6	-24.9	-18.8	00-06L	0	0	0	-39.0	-38.0	0	0	0	0.00	140	15	2130	130	19	2129	6	120	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						29.13	29.08	29.10	Taken	Diff	Diff							
																3	0.05	12.3								

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: 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	
12-15Z				-16.1	-18.7									19	60	1339	23	50	1343						
15-18Z	40	9	-17.5	-13.1	-18.4									16	30	1535	19	40	1503	3				29.04	
18-21Z				-16.5	-19.7									17	50	2041	24	70	2033						
21-24Z	60	13	-20.4	-18.8	-21.4									22	70	2335	27	60	2148	5	150			29.06	
12 hr Max/Min				-13.1	-21.4																				
00-03Z				-20.6	-22.0									24	30	113	30	30	117						
03-06Z	70	15	-18.8	-18.5	-22.7									24	30	426	31	30	318	0				29.11	
06-09Z				-15.4	-19.1									19	70	625	22	70	1059						
09-12Z	70	4	-17.0	-15.4	-17.3									13	50	1059	17	50	1059	0				29.17	
12 hr Max/Min				-15.4	-22.7																				

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	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
60	10	10	-13.1	-22.7	-17.9	00-06L	0	0	0	-54.0	-65.0	0	0	0	0.00	30	24	113	30	31	318	2	150	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							29.17	29.04	29.10						18-24L	0	0	0
																			4	0.13	9.6						



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				-17.1	-21.2									6	50	1204	12	60	1159							
15-18Z		0	-23.2	-20.5	-25.7									6	40	1632	6	200	1657	0				29.24		
18-21Z				-20.1	-23.5									3	360	1902	4	40	1806							
21-24Z		0	-22.4	-20.0	-25.2									4	170	2249	5	170	2248	7	80			29.29		
12 hr Max/Min				-17.1	-25.7																					
00-03Z				-16.8	-25.1									6	320	217	7	320	217							
03-06Z	90	4	-18.6	-17.6	-22.7									4	100	549	5	100	548	6	80			29.34		
06-09Z				-17.1	-24.5									4	340	848	6	170	804							
09-12Z		0	-17.0	-15.0	-21.5									5	110	1148	7	80	1150	7	80			29.42		
12 hr Max/Min				-15.0	-25.1																					
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
90	1	-15.0	-25.7	-20.4	00-06L	0	0	0	-30.0	-22.0	0	0	0	0.00	50	6	1204	60	12	1159	5	80	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						29.42	29.24	29.32	Taken	Diff	Diff							
																1	0.18	10.7								

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: 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	
12-15Z				-14.7	-20.8									6	160	1230	9	80	1158						
15-18Z	0	0	-18.6	-17.6	-21.1									3	50	1538	4	190	1458	6	80			29.52	
18-21Z				-16.9	-21.2									5	330	2047	6	340	2048						
21-24Z	40	3	-19.1	-17.1	-19.6									4	30	2139	4	10	2329	6	150			29.57	
12 hr Max/Min				-14.7	-21.2																				
00-03Z				-18.3	-19.8									3	50	250	4	300	39						
03-06Z	0	0	-20.6	-19.1	-20.7									3	30	344	4	10	348	3				29.60	
06-09Z				-19.5	-21.2									5	30	844	7	100	700						
09-12Z	0	0	-20.2	-19.8	-20.5									3	30	1150	4	30	1040	0				29.62	
12 hr Max/Min				-18.3	-21.2																				

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.

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
00-06L	40	1	-14.7	-21.2	-18.0	0	0	0	-21.0	-6.0	0	0	0	0.00	160	6	1230	80	9	1158	4	80	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				4	0.10	6.5			
															29.62	29.52	29.58									



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	
12-15Z				-19.6	-22.1										13	90	1450	16	80	1450					
15-18Z	50	13	-19.1	-19.0	-22.7										18	70	1632	22	70	1630					29.59
18-21Z				-18.8	-25.3										15	50	1808	19	40	1813					
21-24Z		3	-21.7	-21.6	-25.0										8	90	2147	11	80	2144	7	30			29.57
12 hr Max/Min				-18.8	-25.3																				
00-03Z				-21.0	-25.7										4	340	248	7	320	250					
03-06Z	340	4	-22.3	-21.0	-26.8										11	350	303	14	340	303					29.49
06-09Z				-21.0	-22.7										8	340	743	11	340	743					
09-12Z		0	-26.5	-22.6	-27.4	3				fg	3				3	290	911	6	320	859	8	5	3		29.40
12 hr Max/Min				-21.0	-27.4																				

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
35		5	-18.8	-27.4	-23.1	00-06L	0	0	0	-49.0	-56.0	0	3	0	0.00	70	18	1632	70	22	1630	5	5	00-06L	0	0	0
						06-12L	0	0	0							Altimeter								06-12L	0	0	2
						12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	2
						18-24L	3	0	0							29.59	29.40	29.51	2	0.19	8.6			18-24L	3	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: 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				-25.1	-26.5									2	160	1445	3	300	1409							
15-18Z		0	-26.6	-24.9	-26.7	6				fg	6			3	180	1746	4	190	1759	8	5	6		29.30		
18-21Z				-25.0	-26.9									3	320	2001	4	300	1950							
21-24Z	310	3	-25.2	-24.9	-25.4	6				fg	6			4	310	2343	6	310	2159	8	5	6		29.21		
12 hr Max/Min				-24.9	-26.9																					
00-03Z				-23.8	-25.3									4	310	32	6	290	20							
03-06Z	270	3	-24.0	-23.0	-24.6	6			sn	1 fg	5		T	4	270	545	5	280	438	8	10	3	3	29.15		
06-09Z				-23.7	-24.3									5	320	837	7	300	843							
09-12Z	320	7	-19.7	-19.7	-24.0	4	2		SN	6			0.01	13	340	1035	19	340	1042	8	10		6	29.09		
12 hr Max/Min				-19.7	-25.3																					
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
307	3	-19.7	-26.9	-23.3	00-06L	6	0	0	-44.0	-47.0	7	17	0	0.01	340	13	1035	340	19	1042	8	5	00-06L	6	0	0
					06-12L	6	0	0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
					12-18L	6	0	0						29.30	29.09	29.19										
					18-24L	4	2	0									3	0.21	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: 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				-20.9	-23.0										7	270	1358	10	300	1250						
15-18Z	330	11	-18.8	-18.8	-22.7		6		sn		6				T	14	330	1738	19	330	1721	8	10		6	29.02
18-21Z				-17.3	-18.9											14	320	1807	20	320	1806					
21-24Z	350	18	-15.7	-15.3	-17.3	4	2		SN		6		BS	3	20	340	2336	26	340	2321	8	10		6	29.02	
12 hr Max/Min				-15.3	-23.0																					
00-03Z				-13.3	-15.3											19	340	37	23	350	107					
03-06Z	140	17	-14.0	-12.8	-15.5	6			SN		6		BS	3	23	150	531	27	150	530	8	10		6	29.08	
06-09Z				-14.2	-18.8											21	50	659	28	140	848					
09-12Z	110	18	-21.9	-18.4	-23.5	6			sn		6		bs	6	24	50	1123	32	50	1126	8	10		6	29.18	
12 hr Max/Min				-12.8	-23.5																					

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.

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
67		16	-12.8	-23.5	-18.2	00-06L	0	6	0	-53.0	-63.0	24	0	12	0.00	50	24	1123	50	32	1126	8	10	00-06L	0	6	0
						06-12L	4	2	0							Altimeter								06-12L	0	6	0
						12-18L	6	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	6	0
						18-24L	6	0	0							29.18	29.02	29.08	4	0.16	10.7			18-24L	0	6	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				-39.2	-22.0										28	140	1233	43	150	1409						
15-18Z	160	30	-17.1	-16.6	-19.5	6			sn	6			bs	6		37	160	1703	46	160	1649	8	10		6	29.14
18-21Z				-16.4	-18.6										36	160	1927	42	160	1927						
21-24Z	100	12	-17.2	-16.4	20.0	6			sn	6			bs	6		32	150	2150	38	150	2150	8	10		6	29.15
12 hr Max/Min				-16.4	-22.0																					
00-03Z				-15.9	-18.0										17	110	248	24	90	245						
03-06Z	50	17	-20.8	-16.8	-21.4	4	2						bs	6		19	50	538	24	100	311	8	10		6	29.02
06-09Z				-16.5	-21.1										23	40	602	29	40	644						
09-12Z	0	0	-20.8	-16.0	-21.1	1							bs	1		8	70	905	10	80	905	0			3	28.82
12 hr Max/Min				-15.9	-21.4																					
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)				
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
119	15	-15.9	-22.0	-19.0	00-06L	6	0	0	-46.0	-51.0	12	0	19	0.00	160	37	1703	160	46	1649	6	10	00-06L	0	6	0
					06-12L	6	0	0						Altimeter			Total Obs	Daily Pres	Daily Temp							
					12-18L	4	2	0						29.15	28.82	29.03	Taken	Diff	Diff							
					18-24L	0	1	0									4	0.33	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.

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	
12-15Z				-19.7	-21.7									11	320	1315	14	310	1315						
15-18Z	340	7	-17.9	-18.0	-20.5									10	340	1742	14	330	1742	0				28.53	
18-21Z				-18.0	-24.2									9	310	1947	14	330	1938						
21-24Z	240	4	-20.8	-20.4	-24.8									6	170	2300	8	270	2314	0				28.37	
12 hr Max/Min				-18.0	-24.8																				
00-03Z				-19.7	-22.5									20	80	121	25	90	120						
03-06Z	100	7	-17.7	-17.7	-25.6									16	100	357	18	100	357	1				28.37	
06-09Z				-16.1	-19.3									12	80	621	15	140	714						
09-12Z	200	4	-19.3	-16.8	-22.9									9	110	1124	12	160	1025	2				28.40	
12 hr Max/Min				-16.1	-25.6																				

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.

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
220		6	-16.1	-25.6	-20.9	00-06L	0	0	0	-50.0	-58.0	0	0	0	0.00	80	20	121	90	25	120	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							28.53	28.37	28.42	4	0.16	9.5			18-24L	0	0	0



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				-15.1	-23.0										17	50	1405	21	60	1446						
15-18Z	50	17	-16.8	-15.8	-19.4				sn		2			T	22	50	1522	28	50	1540	8	20		2	28.45	
18-21Z				-15.6	-19.6										21	80	1906	24	40	1858						
21-24Z	340	12	18.1	-15.3	-18.8				SN		2			T	12	340	2350	17	330	2349	6	80		2	28.52	
12 hr Max/Min				-15.1	-23.0																					
00-03Z				-16.7	-18.4										13	340	38	18	320	20						
03-06Z		3	-15.8	-13.2	-18.5										13	110	531	17	130	532	6	80			28.60	
06-09Z				-17.9	-21.6										6	50	8333	7	190	719						
09-12Z		3	-16.1	-15.9	-20.1										13	320	1007	18	300	1006	6	80			28.64	
12 hr Max/Min				-13.2	-21.6																					
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
22	9	-13.2	-23.0	-18.1	00-06L	0	0	0	-41.0	-42.0	4	0	0	0.00	50	22	1522	50	28	1540	7	20	00-06L	0	0	2
					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						28.64	28.45	28.55	Taken	Diff	Diff							
																2	0.19	9.8								

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: 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		<3000
12-15Z				-14.1	-17.1										15	340	1410	20	340	1410							
15-18Z		5	-15.1	-13.4	-19.0				sn		1				T	13	340	1528	18	350	1514	8	20		5	28.75	
18-21Z				-14.6	-17.1										36	160	2048	42	160	2045							
21-24Z	120	15	-15.1	-15.0	-16.1				SN		6		BS	6	36	180	2136	45	190	2131	8	20			6	28.92	
12 hr Max/Min				-13.4	-19.0																						
00-03Z				-14.3	-16.1										17	90	202	23	80	243							
03-06Z	60	8	-15.3	-14.5	-16.4	5	1		SN				BS	0.02	16	110	410	26	100	412	8	20			6	29.00	
06-09Z				-15.3	-16.0										12	140	847	17	140	847							
09-12Z	130	15	-16.5	-15.3	-16.8	6			-SN				BS		T	20	130	1102	27	140	1111	8	20			6	29.10
12 hr Max/Min				-14.3	-16.8																						

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	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
113	11	-13.4	-19.0	-16.2	00-06L	0	0	0	-43.0	-45.0	7	0	6	0.02	160	36	2048	190	45	2131	8	20	00-06L	0	0	5
				06-12L	0	0	0					Altimeter			Total Obs	Daily Pres	Daily Temp				06-12L	0	0	6		
				12-18L	5	1	0					Max	Min	Avg	Taken	Diff	Diff				12-18L	0	0	6		
				18-24L	0	6	0					29.10	28.75	28.94							18-24L	0	0	6		
																3	0.35	5.6								



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	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		<3000
12-15Z				-16.7	-18.1									32	160	1350	38	160	1349							
15-18Z	160	30	-16.7	-16.9	-18.1	6			sn	6		bs	6	28	150	1747	38	150	1739	8	20		6	29.23		
18-21Z				-16.5	-18.7									35	160	1922	45	160	1922							
21-24Z	140	21	-18.9	-18.0	-18.9	6			sn	6		bs	6	29	150	2134	35	150	2126	8	20		6	29.24		
12 hr Max/Min				-16.5	-18.9																					
00-03Z				-16.9	-18.8									24	140	2357	31	150	102							
03-06Z	40	14	-16.7	-16.2	-17.5	4			sn	4		bs	4	14	40	548	19	70	431	8	40		4	29.32		
06-09Z				-14.7	-16.9									16	30	617	19	30	617							
09-12Z	320	4	-17.3	-16.0	-18.5									6	300	1145	8	300	1144	5	40			29.24		
12 hr Max/Min				-14.7	-18.8																					
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
135	17	-14.7	-18.9	-16.8	00-06L	6	0	0	-46.0	-51.0	16	0	16	0.00	160	35	1922	160	45	1922	7	20	00-06L	0	0	6
					06-12L	6	0	0						Altimeter			Total	Daily	Daily							
					12-18L	4	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.32	29.23	29.26	Taken	Diff	Diff							
																4	0.09	4.2								

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: 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				-17.7	-17.3										14	340	1430	20	350	1358					
15-18Z	0	0	-17.4	-14.2	-17.4										13	340	1635	17	340	1635	8	20		6	29.15
18-21Z				-14.6	-17.4										6	30	2004	9	80	1847					
21-24Z	0	0	-17.3	-14.8	-18.1										4	50	2148	5	50	2147	7	40			29.05
12 hr Max/Min				-14.2	-18.1																				
00-03Z				-16.2	-18.1										5	90	250	7	90	250					
03-06Z	50	10	-16.6	-16.5	-18.2										12	40	547	15	50	548	8	40			28.99
06-09Z				-16.9	-19.7										18	40	743	24	40	741					
09-12Z	0	0	-18.3	-17.7	-18.8										4	50	1050	5	60	1049	8	40			29.00
12 hr Max/Min				-16.2	-19.7																				

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	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
50		3	-14.2	-19.7	-17.0	00-06L	0	0	0	-39.0	-38.0	0	0	0	0.00	40	18	743	40	24	741	8	20	00-06L	0	0	6
						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							29.15	28.99	29.05	4	0.16	5.5			18-24L	0	0	0



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				-17.1	-19.4										11	340	1446	14	340	1445						
15-18Z	40	7	-20.4	-18.1	-23.9									8	150	1540	10	140	1539	2				29.06		
18-21Z				-20.3	-22.3									15	60	2050	20	50	2050							
21-24Z	80	3	-19.6	-19.3	-21.4				SN	3				T	15	60	2058	19	50	2116	8	20		3	29.12	
12 hr Max/Min				-17.1	-23.9																					
00-03Z				-19.4	-22.9									9	90	109	11	100	108							
03-06Z		0	-21.6	-19.1	-22.4				SN	1				T	5	270	419	6	280	419	7	40		2	29.13	
06-09Z				-19.2	-21.7									11	80	804	14	80	809							
09-12Z	130	15	-19.9	-18.4	-20.4	3			SN	3		BS	3	33	160	1038	41	160	1037	8	40			29.27		
12 hr Max/Min				-18.4	-22.9																					
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
101	6	-17.1	-23.9	-20.5	00-06L	0	0	0	-50.0	-58.0	7	0	3	0.00	160	33	1038	160	41	1037	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	3	0	0						29.27	29.06	29.15	Taken	Diff	Diff							
																3	0.21	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 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	
12-15Z				-18.4	-21.1										22	30	1312	27	30	1311					
15-18Z	90	9	-18.0	-17.8	-18.8				SN	2			BS	2	14	50	1500	20	90	1646	4				29.34
18-21Z				-18.0	-19.2									12	90	1819	17	90	1804						
21-24Z	140	11	-19.6	-17.9	-20.3									16	160	2322	19	170	2321	7	100				29.48
12 hr Max/Min				-17.8	-21.1																				
00-03Z				-15.3	-20.5									11	140	1	15	150	3						
03-06Z	130	4	-19.2	-18.8	-20.4									6	100	519	7	100	518	4					29.56
06-09Z				-17.0	-22.9									11	40	724	13	40	717						
09-12Z	60	11	-23.1	-20.1	-23.3									18	30	1101	22	30	1100	2					29.65
12 hr Max/Min				-15.3	-23.3																				

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
101		9	-15.3	-23.3	-19.3	00-06L	0	0	0	-47.0	-53.0	2	0	2	0.00	30	22	1312	30	27	1311	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							29.65	29.34	29.51						12-18L	0	0	0
						18-24L	0	0	0										4	0.31	8.0			18-24L	0	0	0



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	
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				06-12L	12-18L	18-24L			
																		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															
15-18Z	0	300 7	80 14	70 3	70 13	0	0	90 8	70 6	10 3	0 0	0	70 11	340 8	60 20
18-21Z															
21-24Z	0	160 17	70 10		0 110 4	60 21	80 7	60 12		0	110 6	80 4	0	0	60 19
00-03Z															
03-06Z	330	5 70 17	0	140 8	0	0	100 10	40 12		0	50 17	80 4	290 5	0	100 9
06-09Z															
09-12Z	0	0 110 12	80 8	90 11	0	330 4	80 8	60 16	350 3	80 5	40 10	80 5	340 9	100 5	0
X*u / X*v															
X*u / X*v		-6.06 3.5	13.79 2.431	2.819 1.026	12.22 4.446			8 5E-16	5.638 2.052	0.521 2.954	0 0		10.34 3.762	-2.74 7.518	17.32 10
X*u / X*v		5.814 -16	9.397 3.42		3.759 -1.37	18.19 10.5	6.894 1.216	10.39 6			5.638 -2.05	3.939 0.695			16.45 9.5
X*u / X*v	-2.5 4.33	15.97 5.814		5.142 -6.13			9.848 -1.74	7.713 9.193			13.02 10.93	3.939 0.695	-4.7 1.71		8.863 -1.56
X*u / X*v	0 0	11.28 -4.1	7.878 1.389	11 7E-16		-2 3.464	7.878 1.389	13.86 8	-0.52 2.954	4.924 0.868	6.428 7.66	4.924 0.868	-3.08 8.457	4.924 -0.87	
Sum u/Sum v	-2.5 4.33	27 -10.8	31.06 7.24	18.96 -5.1	15.97 3.078	16.19 13.96	24.62 0.868	39.96 23.19	5.117 5.007	5.445 3.823	25.09 16.54	12.8 2.257	2.56 13.93	2.188 6.649	42.64 17.94
Arctan	-30	111.7	76.88	105.1	79.09	49.22	87.98	59.87	45.63	54.93	56.61	80	10.41	18.21	67.18
Direction	330	111.7	76.88	105.1	79.09	49.22	87.98	59.87	45.63	54.93	56.61	80	10.41	18.21	67.18
Magnitude	1.25	13	8	6	4	6	6	12	2	2	6:00	3	6	3	12

Avg Wind

		sin	cos
1	X*u / X*v	-0.625	1.083
2	X*u / X*v	12.308	-4.907
3	X*u / X*v	7.791	1.816
4	X*u / X*v	5.311	-1.429
5	X*u / X*v	4.173	0.804
6	X*u / X*v	4.732	4.083
7	X*u / X*v	6.246	0.220
8	X*u / X*v	10.379	6.023
9	X*u / X*v	1.608	1.574
10	X*u / X*v	1.637	1.149
11	X*u / X*v	6.888	4.540
12	X*u / X*v	3.201	0.564
13	X*u / X*v	1.130	6.147
14	X*u / X*v	1.016	3.087
15	X*u / X*v	11.061	4.653
16	X*u / X*v	4.997	-1.609
17	X*u / X*v	8.905	5.076
18	X*u / X*v	1.000	0.000
19	X*u / X*v	0.482	0.575
20	X*u / X*v	2.892	4.079
21	X*u / X*v	-2.607	1.940
22	X*u / X*v	14.751	6.198
23	X*u / X*v	12.918	-7.120
24	X*u / X*v	-3.535	-4.213
25	X*u / X*v	3.261	8.119
26	X*u / X*v	9.917	-4.149
27	X*u / X*v	12.137	-12.258
28	X*u / X*v	1.915	1.607
29	X*u / X*v	6.131	-1.216
30	X*u / X*v	8.593	-1.648
31	X*u / X*v		
	Sum u/Sum v	158.613	24.787
	Arctan	81.118	
	Direction	81.1	
	Magnitude	7	

Station:
NZCM

Monthly Climatology / Page 1

Month:
April 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	-24.0	-31.6	-27.8	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	1	330	8	330	11	
2	-13.5	-30.6	-22.1	0.00	4.00	6.00	6.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.00	0.00	17.00	0.03	13	112	25	150	39
3	-16.1	-22.0	-19.1	2.00	0.00	0.00	0.00	2.00	4.00	6.00	3.00	0.00	13.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	15.00	19.00	0.02	8	77	26	130	37
4	-11.4	-19.3	-15.4	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	6	105	20	150	28	
5	-13.6	-20.1	-16.9	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	4.00	0.00	0.00	4.00	0.00	4	79	18	60	25
6	-16.8	-26.9	-21.9	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	6	49	25	60	31	
7	-18.2	-23.9	-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	9.00	0.00	0.00	9.00	0.00	6	88	22	50	28
8	-20.3	-26.6	-23.5	0.00	0.00	1.00	0.00	1.00	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	2.00	0.00	12	60	26	50	28
9	-22.1	-28.1	-25.1	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	3.00	0.00	0.00	3.00	0.00	2	46	21	50	26
10	-22.5	-29.2	-25.9	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	2	55	10	90	13	
11	-21.3	-28.8	-25.1	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	8	57	22	30	27	
12	-25.0	-29.3	-27.2	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	5.00	0.00	0.00	5.00	0.00	3	80	12	40	15
13	-24.0	-31.4	-27.7	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	6	10	20	50	25	
14	-21.8	-27.9	-24.9	0.00	0.00	3.00	4.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	0.00	0.00	9.00	0.01	3	18	15	340	21
15	-19.7	-30.7	-25.2	6.00	6.00	6.00	6.00	24.00	0.00	0.00	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	67	25	50	30	
16	-12.6	-24.9	-18.8	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	5	108	15	140	19	
17	-13.1	-22.7	-17.9	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	10	60	24	30	31	
18	-15.0	-25.7	-20.4	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	1	90	6	50	12	
19	-14.7	-21.2	-18.0	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	1	40	6	160	9	
20	-18.8	-27.4	-23.1	0.00	0.00	0.00	3.00	3.00	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	3.00	0.00	5	35	18	70	22
21	-19.7	-26.9	-23.3	6.00	6.00	6.00	4.00	22.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	7.00	17.00	0.00	24.00	0.01	3	307	13	340	19
22	-12.8	-23.5	-18.2	0.00	4.00	6.00	6.00	16.00	6.00	2.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	12.00	36.00	0.00	16	67	24	50	32
23	-15.9	-22.0	-19.0	6.00	6.00	4.00	0.00	16.00	0.00	0.00	2.00	1.00	3.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	19.00	31.00	0.00	15	119	37	160	46
24	-16.1	-25.6	-20.9	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	6	220	20	80	25	
25	-13.2	-23.0	-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	4.00	0.00	0.00	4.00	0.00	9	22	22	50	28
26	-13.4	-19.0	-16.2	0.00	0.00	5.00	0.00	5.00	0.00	0.00	1.00	6.00	7.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	5.50	12.50	0.02	11	113	36	160	45
27	-14.7	-18.9	-16.8	6.00	6.00	4.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.00	16.00	32.00	0.00	17	135	35	160	45
28	-14.2	-19.7	-17.0	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	3	50	18	40	24	
29	-17.1	-23.9	-20.5	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	3.00	10.00	0.00	6	101	33	160	41
30	-15.3	-23.3	-19.3	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	2.00	4.00	0.00	9	101	22	30	27
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	Spd	Dir	Spd	
-11.4	-31.6	-21.2	26.0	32.0	41.0	32.0	10.0	8.0	6.0	9.0	0.0	0.0	0.0	0.0	131.0	20.0	73.5	224.5	0.09	81	7	160	37	46

Total Hrs =or< 1600:	131.0	Total Hrs =or< 4800:	33.0	Total Hrs < 9999:	0.0
Total Days =or< 1600:	12	Total Days =or< 4800:	5	Total Days < 9999:	0
% Hrs =or< 1600:	0.2	% Hrs =or< 4800:	0.0	% Hrs < 9999:	0.0
% Days =or< 1600:	0.4	% Days =or< 4800:	0.2	% Days < 9999:	0.0

Total Hrs	sn/sg/ic:	131.0
	fg/br:	20.0
	fg:	73.5
Total Days	sn/sg/ic:	16
	fg/br:	2
	fg:	8

- N
- NE
- E
- SE
- S
- SW
- W
- NW

Station:
NZCM

Monthly Climatology / Page 2

Month:
April 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	28.88	28.70	28.77	2	0.18	7.6	-36.0		
2	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	6.00	6.00	6.00	22.00	29.10	28.66	28.85	4	0.44	17.1	-52.0	
3	6	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	3.00	0.00	15.00	29.34	29.27	29.31	3	0.07	5.9	-49.0	
4	8	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	0.00	29.23	29.10	29.14	3	0.13	7.9	-37.0	
5	7	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	3.00	2.00	7.00	29.05	29.02	29.04	2	0.03	6.5	-37.0	
6	4	40	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	0.00	1.00	29.41	29.01	29.25	2	0.40	10.1	-59.0	
7	7	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	6.00	2.00	0.00	13.00	29.22	28.88	29.00	3	0.34	5.7	-52.0	
8	6	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.00	0.00	0.00	0.00	0.00	28.93	28.88	28.91	4	0.05	6.3	-57.0	
9	5	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	2.00	3.00	2.00	10.00	29.29	28.93	29.11	2	0.36	6.0	-54.0	
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	29.62	29.39	29.51	2	0.23	6.7	-41.0	
11	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	29.65	29.32	29.52	4	0.33	7.5	-57.0	
12	4	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	6.00	3.00	0.00	12.00	29.07	28.77	28.88	3	0.30	4.3	-44.0	
13	4	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	0.00	29.02	28.92	28.97	3	0.10	7.4	-57.0	
14	7	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	4.00	6.00	10.00	28.95	28.80	28.88	2	0.15	6.1	-44.0	
15	8	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	6.00	6.00	6.00	22.00	2.00	0.00	0.00	2.00	29.19	29.00	29.13	3	0.19	11.0	-59.0	
16	6	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	0.00	29.13	29.08	29.10	3	0.05	12.3	-39.0	
17	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	0.00	29.17	29.04	29.10	4	0.13	9.6	-54.0	
18	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	0.00	29.42	29.24	29.32	1	0.18	10.7	-30.0	
19	4	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	0.00	29.62	29.52	29.58	4	0.10	6.5	-21.0	
20	5	5	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	4.00	29.59	29.40	29.51	2	0.19	8.6	-49.0	
21	8	5	6.00	6.00	3.00	0.00	15.00	0.00	0.00	3.00	6.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	29.30	29.09	29.19	3	0.21	7.2	-44.0	
22	8	10	0.00	0.00	0.00	0.00	0.00	6.00	6.00	6.00	6.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	29.18	29.02	29.08	4	0.16	10.7	-53.0	
23	6	10	0.00	0.00	0.00	0.00	0.00	6.00	6.00	6.00	3.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	29.15	28.82	29.03	4	0.33	6.1	-46.0	
24	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	28.53	28.37	28.42	4	0.16	9.5	-50.0	
25	7	20	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	0.00	0.00	4.00	28.64	28.45	28.55	2	0.19	9.8	-41.0	
26	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	6.00	6.00	6.00	23.00	29.10	28.75	28.94	3	0.35	5.6	-43.0	
27	7	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	4.00	0.00	16.00	29.32	29.23	29.26	4	0.09	4.2	-46.0	
28	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	0.00	0.00	0.00	6.00	29.15	28.99	29.05	4	0.16	5.5	-39.0	
29	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	3.00	2.00	0.00	5.00	29.27	29.06	29.15	3	0.21	6.8	-50.0	
30	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	0.00	29.65	29.34	29.51	4	0.31	8.0	-47.0	
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	0.00				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	6.0	6.0	3.0	3.0	16.0	18.0	22.0	24.0	43.0	47.0	38.0	22.0	29.65	28.37	29.10	91	-59.0			
Total Hrs =or< 500: 18.0					Total Hrs =or< 1000: 80.0					Total Hrs =or< 3000: 150.0					Total Days					
Total Days =or< 500: 2					Total Days =or< 1000: 5					Total Days =or< 3000: 15					30					
% Hrs =or< 500: 0.0					% Hrs =or< 1000: 0.1					% Hrs =or< 3000: 0.2										
% Days =or< 500: 0.1					% Days =or< 1000: 0.2					% Days =or< 3000: 0.5										