

McMurdo Station Daily Observation Worksheet

Date: 01

Time	Winds		3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)				Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)		
	Zulu	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs		fg/br	hrs	bs	hrs	Spd	Dir			Time	Spd	Dir		Time	<500
12-15Z					-37.5	-38.8									28	50	1212	35	70	1241						
15-18Z	130	15	-33.7	-33.7	-38.9	6						bs	6		20	60	1608	27	50	1605	6	140			29.39	
18-21Z				-32.6	-34.1										24	120	1811	42	140	1907						
21-24Z	140	7	-29.2	-29.2	-32.5	6						bs	6		24	120	2121	35	140	2104	8	100			29.39	
12 hr Max/Min				-29.2	-38.9																					
00-03Z				-29.5	-31.3										34	130	137	45	130	136						
03-06Z	110	29	-30.8	-29.7	-31.1	6						bs	6		33	130	407	51	130	407	8	100			29.41	
06-09Z				-30.4	-33.8										20	120	604	33	150	622						
09-12Z	50	14	-35.0	-33.8	-35.7	5	1					bs	6		19	40	1140	24	40	1134	6	140			29.36	
12 hr Max/Min				-29.5	-35.7																					
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
106	16	-29.2	-38.9	-34.1	00-06L	6	0	0	-77.0	-105.0	0	0	24	0.00	130	34	137	130	51	407			00-06L	0	0	0
															Altimeter			7	100	06-12L	0	0	0			
															Max	Min	Avg			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	12-18L	0	0	0
															29.41	29.36	29.39	4	0.05	9.7	18-24L	0	0	0		

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

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

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

McMurdo Station Daily Observation Worksheet

Date: 02

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z				-34.0	-35.4										21	40	1410	27	40	1438						
15-18Z	50	20	-34.9	-33.7	-35.6	6						bs	6	24	40	1734	30	50	1736	5	140				29.26	
18-21Z				-34.0	-35.5									24	40	1757	30	50	1816							
21-24Z	70	16	35.9	-33.8	-36.2	6						bs	6	24	50	2110	30	50	2110	6	140				29.17	
12 hr Max/Min				-33.7	-36.2																					
00-03Z				-35.5	-36.6									21	60	57	28	70	50							
03-06Z	60	25	-35.3	-35.1	-35.8	2	4					bs	6	27	60	527	34	70	514	5	140				28.98	
06-09Z				-34.5	-35.5									27	60	557	31	60	606							
09-12Z	40	27	-33.0	-33.0	-34.9	6						bs	6	25	50	1147	31	50	1146	6	140				28.86	
12 hr Max/Min				-33.0	-36.6																					
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
53	22	-33.0	-36.6	-34.8	00-06L	0	6	0	-71.0	-95.0	0	0	24	0.00	60	27	527	70	34	514	6	140	00-06L	0	0	0
					06-12L	0	6	0						Altimeter			Total	Daily	Daily							
					12-18L	2	4	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	6	0	0						29.26	28.86	29.07	Taken	Diff	Diff							
													4	0.40	3.6											

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 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				-30.7	-33.7										32	50	1239	39	40	1213						
15-18Z	70	23	-30.8	-30.6	-32.6							bs		6	28	50	1732	36	50	1718	6	140			28.79	
18-21Z				-30.1	-31.1										27	40	1941	33	40	1933						
21-24Z	50	17	-27.8	-27.6	-30.1							bs		6	27	30	2138	34	50	2137	6	140			28.76	
12 hr Max/Min				-27.6	-33.7																					
00-03Z				-25.9	-27.7										20	130	237	27	140	237						
03-06Z	90	14	-27.0	-26.8	-27.6							bs		6	20	140	336	25	140	336	6	140			28.72	
06-09Z				-26.3	-27.6										26	40	845	30	40	841						
09-12Z	40	19	-26.2	-24.7	-27.6							bs		4	23	40	925	29	40	929	6	140			28.58	
12 hr Max/Min				-24.7	-27.7																					
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
61	18	-24.7	-33.7	-29.2	00-06L	0	0	0	-68.0	-91.0	0	0	0	22	50	32	1239	40	39	1213	6	140	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							
																	4	0.21	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 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				-25.9	-27.4										25	50	1259	30	50	1417						
15-18Z	80	9	-26.4	-25.2	-27.3										22	40	1609	27	40	1633	6	140			28.53	
18-21Z				-23.4	-26.3										15	70	1828	18	80	1827						
21-24Z		0	-26.7	-21.3	-26.6										6	50	2241	6	40	2241	7	140			28.51	
12 hr Max/Min				-21.3	-27.4																					
00-03Z				-23.7	-29.4										6	60	206	7	60	206						
03-06Z		0	-26.7	-24.9	-27.6										4	10	403	5	10	402	0				28.54	
06-09Z				-25.1	-27.9										2	40	850	3	150	732						
09-12Z		0	-25.2	-22.8	-26.0										6	70	937	7	70	937	8	140			28.59	
12 hr Max/Min				-22.8	-29.4																					

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
80	2	-21.3	-29.4	00-06L	0	0	0	-56.0	-69.0	0	0	0	0.00	50	25	1259	50	30	1417	5	140	00-06L	0	0	0
				06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
				12-18L	0	0	0							Max	Min	Avg	1	0.08	8.1			12-18L	0	0	0
				18-24L	0	0	0							28.59	28.51	28.54						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: 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				-23.5	-25.5										7	60	1439	8	70	1439						
15-18Z		0	-22.3	-20.8	-24.8										7	60	1517	8	320	1720	4				28.63	
18-21Z				-21.8	-26.4										5	310	1935	8	310	1934						
21-24Z	60	4	-24.2	-22.1	-24.2										5	60	2347	7	100	2319	4				28.69	
12 hr Max/Min				-20.8	-26.4																					
00-03Z				-24.0	-26.5										8	80	214	10	80	224						
03-06Z	80	7	-25.2	-24.8	-29.5										8	80	546	9	80	546	0				28.71	
06-09Z				-24.1	-25.8										10	100	758	12	100	801						
09-12Z	70	11	-26.9	-24.0	-27.4										17	70	1133	19	70	1147	0				28.72	
12 hr Max/Min				-24.0	-29.5																					

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	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
71	6	-20.8	-29.5	00-06L	0	0	0	-52.0	-62.0	0	0	0	0.00	70	17	1133	70	19	1147	2		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										
													28.72	28.63	28.69	3	0.09	8.7							



McMurdo Station Daily Observation Worksheet

Date: 06

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z				-18.2	-29.2										18	90	1442	20	90	1441						
15-18Z	90	4	-26.6	-25.0	-29.6										10	90	157	13	90	1502	0				28.73	
18-21Z				-24.7	-33.0										5	170	2046	8	240	1918						
21-24Z		0	-24.9	-24.6	-28.9										6	40	2328	7	50	2344	8	30			3 28.76	
12 hr Max/Min				-18.2	-33.0																					
00-03Z				-16.4	-26.0										18	40	232	23	50	236						
03-06Z	60	14	-15.9	-15.3	-16.7										21	30	404	27	40	404	7	30			6 28.79	
06-09Z				-15.3	-17.5										15	50	557	19	60	642						
09-12Z	50	4	-19.8	-16.4	-24.5										10	280	958	13	280	957	0				2 28.65	
12 hr Max/Min				-15.3	-26.0																					

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
63	6	-15.3	-33.0	-24.2	00-06L	0	0	0	-41.0	-42.0	0	0	0	0.00	30	21	404	40	27	404	4	30	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	3
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	6
					18-24L	0	0	0							28.79	28.65	28.73	3	0.14	17.7			18-24L	0	0	2

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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		<3000
12-15Z				-19.5	-26.0										14	80	1437	17	100	1402							
15-18Z	360	4	-21.5	-20.9	-25.9										11	70	1536	12	70	1535	0				28.53		
18-21Z				-21.5	-27.9										4	170	1929	5	360	1758							
21-24Z	200	3	-23.9	-22.3	-29.1										7	150	2328	9	160	2327	7	140			28.47		
12 hr Max/Min				-19.5	-29.1																						
00-03Z				-20.8	-24.1										8	80	18	11	80	16							
03-06Z	80	20	-26.0	-20.7	-26.7			1					BS	1	21	100	458	26	80	523	4				28.52		
06-09Z				-23.6	-27.9										23	40	741	29	80	631							
09-12Z	100	9	-23.2	-21.2	-27.0	3	1					bs	4	24	50	913	28	50	913	0					28.56		
12 hr Max/Min				-20.7	-27.9																						
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000		
84	9	-19.5	-29.1	-24.3	00-06L	0	0	0	-54.0	-65.0	0	0	5	0.00	50	24	913	80	29	631	3	140	00-06L	0	0	0	
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp				06-12L	0	0	0
					12-18L	0	0	1							Max	Min	Avg	4	0.09	9.6			12-18L	0	0	0	
					18-24L	3	1	0							28.56	28.47	28.52						18-24L	0	0	0	

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McMurdo Station Daily Observation Worksheet

Date: 08

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	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				-21.4	-30.3										11	60	1217	14	70	1215						
15-18Z	360	3	-27.1	-24.6	-31.7										17	80	1629	21	80	1629	0				28.62	
18-21Z				-22.8	-32.9										24	90	2048	30	90	2047						
21-24Z	30	10	-27.6	-27.3	-31.1	5									24	80	2149	31	80	2200	2				28.86	
12 hr Max/Min				-21.4	-32.9																					
00-03Z				-25.0	-30.3										11	80	113	13	80	113						
03-06Z	170	5	-28.9	-22.3	-31.4										12	340	438	16	340	438	6	80			29.04	
06-09Z				-24.0	-32.5										12	80	805	14	8	831						
09-12Z	40	20	-28.5	-22.7	-28.5										19	30	1141	24	30	1144	0				28.97	
12 hr Max/Min				-22.3	-32.5																					

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	-21.4	-32.9	-27.2	00-06L	0	0	0	-57.0	-71.0	0	0	5	0.00	90	24	2048	80	31	2200	2	80	00-06L	0	0	0	
					06-12L	5	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0	
					12-18L	0	0	0							Max	Min	Avg	29.04	28.62	28.87	4	0.42	11.5	12-18L	0	0	0
					18-24L	0	0	0															18-24L	0	0	0	

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

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

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McMurdo Station Daily Observation Worksheet

Date: 09

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	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					-36.6	-29.7										21	50	1348	28	50	1311					
15-18Z		40	14	-28.9	-26.9	-29.1										21	50	1750	27	60	1743	0				28.94
18-21Z					-28.6	-29.5										22	50	1903	29	40	1903					
21-24Z		30	15	-26.8	-25.4	-29.2										21	30	2206	25	30	2206	0				28.91
12 hr Max/Min					-25.4	-29.7																				
00-03Z					-25.2	-27.4										17	30	2357	19	30	3					
03-06Z		50	11	-31.2	-25.4	-33.5										12	80	415	15	80	415	0				28.93
06-09Z					-26.0	-29.2										16	40	640	20	40	640					
09-12Z		350	5	-26.9	-26.2	-30.7										9	30	858	11	30	857	0				28.93
12 hr Max/Min					-25.2	-33.5																				

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
34		11	-25.2	-33.5	-29.4	00-06L	0	0	0	-59.0	-74.0	0	0	0	0.00	50	22	1903	40	29	1903	0		00-06L	0	0	0
						06-12L	0	0	0							Altimeter						0		06-12L	0	0	0
						12-18L	0	0	0							Total Obs								12-18L	0	0	0
						18-24L	0	0	0							28.94	28.91	28.93						18-24L	0	0	0
																			4	0.03	8.3						



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				-26.7	-33.9										6	330	1435	8	210	1411						
15-18Z		0	-28.1	-23.8	-28.6										15	340	1542	23	330	1548	0				28.94	
18-21Z				-25.0	-28.5										8	140	2006	11	120	2006						
21-24Z	10	3	-21.6	-20.3	-25.5										11	60	2108	12	60	2107	2				28.86	
12 hr Max/Min				-20.3	-33.9																					
00-03Z				-18.9	-26.5										18	70	239	22	90	246						
03-06Z		0	-19.1	-15.6	-22.8										13	70	303	18	100	257	0				28.69	
06-09Z				-17.1	-26.8										20	90	712	24	90	711						
09-12Z	100	14	-20.8	-17.7	-25.3										24	100	914	30	130	1022	0				28.69	
12 hr Max/Min				-15.6	-26.8																					

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	
88	4	-15.6	-33.9	-24.8	00-06L	0	0	0	-48.0	-54.0	0	0	0	0.00	100	24	914	130	30	1022	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						28.94	28.69	28.80					18-24L	0	0	0		
																	2		0.25	18.3						



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				-20.7	-28.9										27	50	1204	32	50	1204						
15-18Z	80	6	-24.2	-24.0	-27.3										24	120	1546	31	130	1545	4				28.91	
18-21Z				-21.8	-24.1										15	50	1949	20	50	1948						
21-24Z	30	8	-21.1	-20.5	-24.7										16	120	2114	23	130	2110	2				29.00	
12 hr Max/Min				-20.5	-28.9																					
00-03Z				-21.0	-22.8										15	50	43	20	50	43						
03-06Z	50	10	-19.6	-19.5	-21.9										12	50	550	16	40	334	2				29.09	
06-09Z				-19.4	-23.5										15	110	833	23	120	804						
09-12Z	80	9	-22.1	-21.7	-23.7										16	80	1036	20	80	1036	0				29.16	
12 hr Max/Min				-19.4	-23.7																					

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	
59	8	-19.4	-28.9	-24.2	00-06L	0	0	0	-51.0	-60.0	0	0	0	0.00	50	27	1204	50	32	1204	2		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							29.16	28.91	29.04	4	0.25	9.5			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				-19.5	-22.5										19	30	1319	24	30	1317						
15-18Z	50	24	-17.2	-19.1	-27.5										26	50	1742	35	50	1741	0				29.08	
18-21Z				-26.5	-29.7										29	50	1909	35	50	2047						
21-24Z	50	11	-24.6	-24.6	-29.8										26	50	2134	34	50	2119	0				29.13	
12 hr Max/Min				-19.1	-29.8																					
00-03Z				-24.4	-27.4										16	60	42	21	70	13						
03-06Z	150	5	-29.2	-23.6	-30.5										13	40	319	15	40	319	0				29.20	
06-09Z				-24.6	-29.1										6	40	833	6	30	833						
09-12Z		0	-21.3	-20.5	-26.3										11	30	1000	13	30	1000	0				29.17	
12 hr Max/Min				-20.5	-30.5																					

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	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	
58	10	-19.1	-30.5	-24.8	00-06L	0	0	0	-60.0	-76.0	0	0	0	0.00	50	29	1909	50	35	1741	0		00-06L	0	0	0
					06-12L	0	0	0							Altimeter						0		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							29.20	29.08	29.15	3	0.12	11.4			18-24L	0	0	0



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	
12-15Z				-17.9	-26.6										17	110	1435	24	120	1435					
15-18Z	110	13	-19.9	-18.0	-20.9									23	130	1518	31	140	1515	4				29.25	
18-21Z				-18.3	-20.6									18	50	2017	23	50	2016						
21-24Z	110	14	-23.8	-17.7	-23.7									13	100	2349	17	60	2101	4				29.21	
12 hr Max/Min				-17.7	-26.6																				
00-03Z				-19.2	-23.8									15	60	223	19	40	216						
03-06Z		0	-20.1	-20.0	-22.1									13	50	406	15	80	433	0				29.25	
06-09Z				-19.6	-21.8									10	90	750	13	100	727						
09-12Z		0	-25.6	-20.2	-25.7									9	50	912	11	60	932	3				29.30	
12 hr Max/Min				-19.2	-25.7																				

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
110		7	-17.7	-26.6	-22.2	00-06L	0	0	0	-43.0	-45.0	0	0	0	0.00	130	23	1518	140	31	1515	3		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							29.30	29.21	29.25	2	0.09	8.9			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 14

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z				-18.6	-25.9										8	340	1345	11	330	1345						
15-18Z	140	22	-16.7	-16.2	-21.4										28	140	2747	34	150	1747	6	100			29.31	
18-21Z				-16.6	-20.1										25	130	1939	36	140	2037						
21-24Z	100	11	-19.3	-18.7	-20.7										20	120	2314	32	140	2314	0				29.42	
12 hr Max/Min				-16.2	-25.9																					
00-03Z				-19.2	-21.3										14	50	247	29	50	227						
03-06Z	110	10	-20.2	-20.0	-21.4										19	50	308	27	50	307	0				29.46	
06-09Z				-19.1	-20.3										20	120	908	32	150	815						
09-12Z	80	11	-18.3	-18.1	-21.0										18	50	1016	25	40	1018	0				29.43	
12 hr Max/Min				-18.1	-21.4																					

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

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

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

Avg Wind	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
114	14	-16.2	-25.9	-21.1	00-06L	0	0	0	-44.0	-47.0	0	0	0	0.00	140	28	2747	140	36	2037	2	100	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							29.46	29.31	29.41	4	0.15	9.7			18-24L	0	0	0



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	
12-15Z				-16.1	-18.9										20	30	1340	24	30	1423					
15-18Z	80	9	-19.2	-14.7	-19.3										15	30	1505	19	50	1506				29.32	
18-21Z				-14.1	-24.1										16	100	2034	20	100	2034					
21-24Z	50	19	-23.3	-18.4	-24.6										22	60	2232	29	60	2211				29.27	
12 hr Max/Min				-14.1	-24.6																				
00-03Z				-19.3	-22.9										20	50	119	26	50	21					
03-06Z	100	16	-22.8	-19.1	-28.3										16	100	550	25	100	544				29.30	
06-09Z				-20.6	-24.7										21	130	848	25	140	848					
09-12Z	140	16	-22.8	-21.4	-23.0										28	150	1118	34	150	1117	6	100		29.30	
12 hr Max/Min				-19.1	-28.3																				

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	91	15	-14.1	-28.3	-21.2	0	0	0	-50.0	-58.0	0	0	0	0.00	150	28	1118	150	34	1117	2	100	00-06L	0	0	0
06-12L						0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
12-18L						0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
18-24L						0	0	0							29.32	29.27	29.30	4	0.05	14.2			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				-22.1	-23.2										34	150	1227	40	150	1240						
15-18Z	50	20	-25.7	-23.3	-26.8	3						bs		5	27	50	1736	34	50	1707	6	100			29.25	
18-21Z				-21.5	-25.5										28	50	1834	35	50	1800						
21-24Z	50	11	-20.5	-20.4	-21.7	2						bs		1	19	50	2201	24	80	2213	6	100			29.15	
12 hr Max/Min				-20.4	-26.8																					
00-03Z				-17.3	-21.8										23	30	45	27	30	44						
03-06Z	340	12	-15.3	-15.1	-20.8										17	340	404	24	330	344	0				28.87	
06-09Z				-14.5	-19.0										12	340	557	15	350	557						
09-12Z	170	40	-20.4	-14.5	-18.8	3			sn	3		bs		3	27	180	1149	32	180	1148	8	10		4	28.83	
12 hr Max/Min				-14.5	-21.8																					

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	Time	<1600	<4800	<9999	C		F	sn/sg/ic	fg/br	bs	Dir	Spd			Time	Dir	Spd	Time	Time	<500
107	21	-14.5	-26.8	-20.7	00-06L	3	0	0	-57.0	-71.0	3	0	9	0.00	150	34	1227	150	40	1240	5	10	00-06L	0	0	0
					06-12L	2	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
					18-24L	3	0	0							29.25	28.83	29.03						18-24L	0	4	0
																	4	0.42	12.3							



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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	<3000	
12-15Z				-19.4	-27.8									43	170	1203	50	180	1200							
15-18Z	70	21	31.2	-27.9	-31.7	6			sn	4			bs	6						8	10		6		29.02	
18-21Z				-31.2	-32.5									27	50	1910	38	120	1834							
21-24Z	40	13	-29.1	-28.9	-31.4	2	1	3	sn	6			bs	6						8	30		2	4	29.35	
12 hr Max/Min				-19.4	-32.5																					
00-03Z				-26.8	-31.3									21	50	213	30	140	21							
03-06Z	110	16	-27.6	-27.6	-31.5	4		2	sn	6			bs	6						8	30			6	29.54	
06-09Z				-22.7	-27.5									19	100	848	28	80	638							
09-12Z	100	25	-19.1	-19.0	-22.8	6			sn	6			bs	6						8	10		5	1	29.49	
12 hr Max/Min				-19.0	-31.5																					

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	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
84	19	-19.0	-32.5	-25.8	00-06L	6	0	0	-62.0	-80.0	22	0	24	0.00	170	43	1203	180	50	1200	8	10	00-06L	0	6	0
					06-12L	2	1	3							Altimeter								06-12L	0	2	4
					12-18L	4	0	2							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	6
					18-24L	6	0	0							29.54	29.02	29.35	4	0.52	13.5			18-24L	0	5	1



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	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		<3000
12-15Z				-18.2	-19.3									28	130	1350	38	140	1349							
15-18Z	70	15	-17.0	-17.0	-18.8	6			sn	6			bs	6						8	30		2	4	29.42	
18-21Z				-15.0	-16.9									17	50	2009	22	50	1833							
21-24Z	40	8	-13.0	-13.0	-15.0	6			sn	6			bs	6						8	30			6	29.38	
12 hr Max/Min				-13.0	-19.3																					
00-03Z				-11.8	-13.0									16	30	148	19	30	207							
03-06Z	40	12	-11.1	-10.9	-11.8	3	3		sn	1			bs	6						8	30			6	29.32	
06-09Z				-11.7	-17.6									23	50	845	29	50	811							
09-12Z	60	18	-17.4	-17.1	-17.9	3	3						bs	6										3	29.35	
12 hr Max/Min				-10.9	-17.9																					
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
55	13	-10.9	-19.3	-15.1	00-06L	6	0	0	-43.0	-45.0	13	0	24	0.00	60	46	423	140	38	1349	6	30	00-06L	0	2	4
					06-12L	6	0	0						Altimeter			Total	Daily	Daily							
					12-18L	3	3	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	3	3	0						29.42	29.32	29.37	Taken	Diff	Diff							
																4	0.10	8.4								

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: 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				-15.3	-17.6									26	50	1211	33	50	1210						
15-18Z	90	7	-16.3	-14.8	-17.8	4						bs	4	18	60	1548	22	60	1524	0				29.37	
18-21Z				-12.8	-18.9									23	40	2007	27	40	2047						
21-24Z	50	19	-20.4	-18.7	-21.7		2					bs	6	24	60	2238	30	60	2246	0				29.37	
12 hr Max/Min				-12.8	-21.7																				
00-03Z				-16.9	-20.6									20	60	110	28	60	50						
03-06Z	30	11	-17.7	-16.8	-17.9									17	30	330	20	30	329	0				29.40	
06-09Z				-17.3	-18.4									9	30	832	11	30	828						
09-12Z	0	0	-19.6	-17.3	-19.7									12	30	1038	14	30	1037	4				29.44	
12 hr Max/Min				-16.8	-20.6																				

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	Temp	Temp	Time	<1600	<4800		<9999	C	F	sn/sg/ic	fg/br	bs			Dir	Spd	Time	Dir	Spd	Time
51	9	-12.8	-21.7	-17.3	00-06L	4	0	0	-47.0	-53.0	0	0	10	0.00	50	26	1211	50	33	1210	1		06-12L	0	0	0
					06-12L	0	2	0							Altimeter			Total Obs	Daily Pres	Daily Temp			12-18L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			18-24L	0	0	0
					18-24L	0	0	0							29.44	29.37	29.40	4	0.07	8.9						



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				-18.5	-20.9									4	150	1417	5	150	1414						
15-18Z	30	8	-18.8	-17.7	-20.0									9	80	1549	12	90	1548	6	20			5	29.44
18-21Z				-17.4	-19.2									10	20	1913	13	30	1912						
21-24Z		0	-17.6	-17.6	-19.3	1					fg	1		2	350	2137	2	320	2140	8	5	1		5	29.45
12 hr Max/Min				-17.4	-20.9																				
00-03Z				-16.7	-19.8									6	310	248	11	320	237						
03-06Z		0	-19.1	-16.0	-20.3	6					fg	6		9	310	336	13	310	312	8	5	6			29.43
06-09Z				-14.6	-20.8									17	340	849	23	330	848						
09-12Z		0	-17.0	-14.6	-17.2	2					fg	2		15	340	911	20	340	910	0		2			29.37
12 hr Max/Min				-14.6	-20.8																				

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	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
30		2	-14.6	-20.9	-17.8	00-06L	0	0	0	-35.0	-31.0	0	9	0	0.00	340	17	849	330	23	848	6	5	00-06L	0	0	5
						06-12L	1	0	0							Altimeter								06-12L	1	0	5
						12-18L	6	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	6	0	0
						18-24L	2	0	0							29.45	29.37	29.42	1	0.08	6.3			18-24L	2	0	0



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				-16.3	-18.0										7	70	1412	9	70	1411						
15-18Z	90	15	-21.7	-17.2	-28.7										19	90	1731	25	90	1717	0				29.33	
18-21Z				-18.7	-26.5										28	70	2033	34	80	2032						
21-24Z	50	19	-22.2	-18.6	-26.2	3						bs		3	24	50	2108	32	50	2103	2				29.36	
12 hr Max/Min				-16.3	-28.7																					
00-03Z				-18.8	-25.9										22	50	10	27	40	9						
03-06Z	80	13	-26.7	-23.1	-28.6	1	5			fg	5	bs		1	14	80	524	19	90	533	8	30			29.46	
06-09Z				-22.5	-26.5										16	70	634	19	70	559						
09-12Z	320	6	-28.0	-22.5	-28.4	2						bs		2	9	90	1010	12	70	910	4				29.55	
12 hr Max/Min				-18.8	-28.6																					
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
64	13	-16.3	-28.7	-22.5	00-06L	0	0	0	-51.0	-60.0	0	5	6	0.00	70	28	2033	80	34	2032	4	30	00-06L	0	0	0
					06-12L	3	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	1	5	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	2	0							29.55	29.33	29.43	Taken	Diff	Diff			18-24L	0	0	0
																		4	0.22	12.4						

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: 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				-20.4	-28.0										13	340	1359	17	340	1358						
15-18Z		0	-24.0	-19.4	-25.3	2					FG	2			11	330	1509	14	310	1523	8	5	6		29.51	
18-21Z				-21.3	-23.8										4	190	1838	6	280	1829						
21-24Z		0	-20.7	-20.4	-21.3	2					fg	2			4	270	2147	4	270	2331	8	10	2	4	29.49	
12 hr Max/Min				-19.4	-28.0																					
00-03Z				-17.1	-21.8										9	340	11	12	340	11						
03-06Z		0	-21.8	-21.5	-22.5		4				fg	4			3	200	433	4	350	515	8	10		6	29.42	
06-09Z				-21.4	-22.1										2	160	850	3	150	848						
09-12Z	80	3	-20.2	-20.2	-21.7	3					fg	3			4	90	1131	6	130	925	0			3	29.36	
12 hr Max/Min				-17.1	-22.5																					
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
80	1	-17.1	-28.0	-22.6	00-06L	2	0	0	-41.0	-42.0	0	11	0	0.00	340	13	1359	340	17	1358	6	5	00-06L	6	0	0
					06-12L	2	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	4	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	3	0	0						29.51	29.36	29.45	Taken	Diff	Diff							
																1	0.15	10.9								

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

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

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



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	
12-15Z				-17.8	-20.8									8	100	1330	10	100	1330						
15-18Z	30	16	-20.4	-18.6	-20.9									24	30	1705	28	30	1707	0				29.30	
18-21Z				-17.8	-21.0									16	30	1759	19	30	1759						
21-24Z		0	-26.1	-17.6	-28.3									8	330	2209	10	340	2215	0				29.29	
12 hr Max/Min				-17.6	-28.3																				
00-03Z				-19.3	-26.6									8	330	250	11	320	250						
03-06Z		0	-24.1	-18.6	-27.4									10	330	319	14	340	300	0				29.24	
06-09Z				-23.3	-24.2									3	90	842	4	100	841						
09-12Z		0	-22.6	-22.6	-24.6									4	70	950	5	70	946	0				29.20	
12 hr Max/Min				-18.6	-27.4																				

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

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

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

Avg Wind	Dir	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
30		4	-17.6	-28.3	-23.0	00-06L	0	0	0	-47.0	-53.0	0	0	0	0.00	30	24	1705	30	28	1707	0		00-06L	0	0	0
						06-12L	0	0	0							Altimeter						0		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							29.30	29.20	29.26	1	0.10	10.7			18-24L	0	0	0



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				-22.0	-23.7									2	80	1421	3	50	1415						
15-18Z		0	-25.3	-23.8	-27.8									3	80	1511	3	80	1511	8	10		3	29.20	
18-21Z				-22.9	-25.6									5	300	1947	6	300	1946						
21-24Z		0	-26.7	-24.4	-27.7									4	300	2144	6	310	2143	0			3	29.18	
12 hr Max/Min				-22.0	-27.8																				
00-03Z				-23.0	-30.7									6	160	133	7	330	101						
03-06Z		0	-26.1	-23.4	-29.9									5	170	305	5	300	441	0				29.11	
06-09Z				-22.4	-26.1									5	310	738	7	340	831						
09-12Z		3	-22.0	-20.8	-22.5									8	350	908	13	340	907						
12 hr Max/Min				-20.8	-30.7																				

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
1	-20.8	-30.7	-25.8	00-06L	0	0	0	-33.0	-27.0	0	0	0	0.00	350	8	908	340	13	907	3	10	00-06L	0	3	0
				06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	3
				12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
				18-24L	0	0	0							29.20	29.11	29.16	0	0.09	9.9			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: 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	
12-15Z				-22.6	-28.9									4	350	1310	6	10	1337						
15-18Z		0	-24.1	-24.0	-27.8									2	360	1750	3	360	1744	0				28.96	
18-21Z				-23.2	-25.6									3	320	2011	4	170	2034						
21-24Z		0	-23.9	-23.9	-26.6									4	360	2350	5	10	2350	0				28.92	
12 hr Max/Min				-22.6	-28.9																				
00-03Z				-23.1	-26.7									7	60	122	8	60	120						
03-06Z		0	-32.1	-23.2	-32.8									5	150	503	6	160	503	0				28.91	
06-09Z				-22.9	-34.7									8	160	559	11	160	558						
09-12Z	70	9	-25.8	-24.4	-32.0									8	70	1147	10	80	1142	0				28.92	
12 hr Max/Min				-22.9	-34.7																				

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				<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000	<3000
00-06L	70	2	-22.6	-34.7	-28.7	0	0	0	-38.0	-36.0	0	0	0	0.00	160	8	559	160	11	558	0		00-06L	0	0	0
06-12L						0	0	0							Altimeter						0		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						28.96	28.91	28.93							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: 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	
12-15Z				-22.7	-27.8									15	90	1227	17	90	1301						
15-18Z	140	4	-26.5	-24.2	-30.0									7	80	1550	9	70	1549	0				28.96	
18-21Z				-26.6	-29.6									3	80	1801	4	110	1759						
21-24Z		0	-23.9	-21.9	-25.8									9	320	2106	11	310	2219	0				29.00	
12 hr Max/Min				-21.9	-30.0																				
00-03Z				-23.0	-33.4									5	160	108	6	170	105						
03-06Z		0	-28.9	-23.7	-30.2									6	320	331	7	310	331	0				29.05	
06-09Z				-25.5	-29.6									4	50	744	5	50	743						
09-12Z		0	-25.9	-23.6	-27.8									8	40	1040	9	30	1042	0				29.07	
12 hr Max/Min				-23.0	-33.4																				

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

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

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

Avg Wind	Dir	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
140		1	-21.9	-33.4	-27.7	00-06L	0	0	0	-44.0	-47.0	0	0	0	0.00	90	15	1227	90	17	1301	0		00-06L	0	0	0
						06-12L	0	0	0							Altimeter						0		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							29.07	28.96	29.02	1	0.11	11.5			18-24L	0	0	0



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				-23.9	-29.4										18	30	1257	21	30	1250					
15-18Z	30	7	-25.9	-24.7	-31.0									6	10	1741	9	20	1733	0				29.14	
18-21Z				-24.8	-27.5									9	30	1822	12	30	1821						
21-24Z	70	4	-24.9	-24.8	-30.2									4	80	2350	5	80	2350	8	20			29.16	
12 hr Max/Min				-23.9	-31.0																				
00-03Z				-24.2	-26.2									10	30	242	12	30	241						
03-06Z	50	13	-26.8	-25.5	-27.3									15	40	504	19	50	548	0				29.15	
06-09Z				-27.4	-29.3									17	60	850	21	60	846						
09-12Z	80	16	-30.8	-29.1	-30.8									17	80	1150	23	70	1059	4				29.17	
12 hr Max/Min				-24.2	-30.8																				

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	61	10	-23.9	-31.0	-27.5	0	0	0			0	0	0	0.00	30	18	1257	70	23	1059	3	20	00-06L	0	0	0
06-12L						0	0	0							Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	06-12L	0	0	2		
12-18L						0	0	0						Max	Min	Avg	29.17				29.14	29.16	12-18L	0	0	2
18-24L						0	0	0									4				0.03	7.1	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: 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				-30.8	-31.4									18	80	1218	21	80	1310						
15-18Z	80	16	-30.5	-30.3	-31.3									15	70	1727	18	70	1726	6	150			29.18	
18-21Z				-30.5	-31.8									16	80	1830	20	80	1829						
21-24Z	70	12	-30.6	-30.5	-31.4									15	70	2330	19	70	2330	6	150			29.20	
12 hr Max/Min				-30.3	-31.8																				
00-03Z				-28.6	-30.4									15	60	239	19	60	231						
03-06Z	70	9	-28.2	-28.2	-29.3									15	60	437	19	70	408	6	150			29.23	
06-09Z				-26.9	-30.8									12	60	606	16	70	557						
09-12Z		0	-28.7	-27.2	-29.6									8	50	1109	11	100	1102	6	20			3 29.32	
12 hr Max/Min				-26.9	-30.8																				

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
74	9	-26.9	-31.8	-29.4	00-06L	0	0	0	-59.0	-74.0	0	0	0	0.00	80	18	1218	80	21	1310	6	20	00-06L	0	0	0
				06-12L	0	0	0					Altimeter			Total Obs	Daily Pres	Daily Temp									
				12-18L	0	0	0					29.32	29.18	29.23	Taken	Diff	Diff									
				18-24L	0	0	0								3	0.14	4.9									



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	<3000
12-15Z				-27.5	-29.7										11	50	1405	13	70	1431							
15-18Z		0	-30.3	-26.8	-30.3										11	90	1703	13	90	1708				3	29.37		
18-21Z				-27.8	-30.4										7	90	1832	9	100	1831							
21-24Z		0	-31.7	-27.6	-32.9										4	140	2304	5	70	2057					29.42		
12 hr Max/Min				-26.8	-32.9																						
00-03Z				-29.7	-32.6										2	130	157	3	100	41							
03-06Z		0	-30.6	-29.7	-31.8										3	140	343	3	40	505					29.42		
06-09Z				-27.5	-32.9										9	90	824	12	100	830							
09-12Z		0	-27.6	-26.8	-31.0										9	80	1108	10	90	1108	6	150			29.43		
12 hr Max/Min				-26.8	-32.9																						
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	
		0	-26.8	-32.9	-29.9	00-06L	0	0	0	-49.0	-56.0	0	0	0	0.00	50	11	1405	70	13	1431	3	150	00-06L	0	0	3
					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						29.43	29.37	29.41	Taken	Diff	Diff								
																0	0.06	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: 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				-25.1	-35.2										6	100	1403	9	90	1324						
15-18Z		0	-24.7	-24.6	-29.7										3	50	1728	5	280	1457	4				29.44	
18-21Z				-24.6	-26.8										9	100	2050	13	100	2050						
21-24Z	60	13	-30.3	-24.4	-30.3										14	60	2348	18	60	2339	4				29.47	
12 hr Max/Min				-24.4	-35.2																					
00-03Z				-29.7	-31.1										19	50	45	23	50	45						
03-06Z	140	8	-29.2	-27.2	-29.9										15	40	308	19	30	308	0				29.49	
06-09Z				-28.3	-31.8										14	90	843	21	100	846						
09-12Z	70	12	-28.8	-27.8	-30.7										20	100	1104	280	130	918	0				29.53	
12 hr Max/Min				-27.2	-31.8																					

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	Time	<500	<1000	<3000
81		8	-24.4	-35.2	-29.8	00-06L	0	0	0	-57.0	-71.0	0	0	0	0.00	100	20	1104	130	280	918	2		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							29.53	29.44	29.48	3	0.09	10.8			18-24L	0	0	0

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 31

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

Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn 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																														
15-18Z	130	15	50	20	70	23	80	9		0	90	4	360	4	360	3	40	14		0	80	6	50	24	110	13	140	22	80	9
18-21Z																														
21-24Z	140	7	70	16	50	17		0	60	4		0	200	3	30	10	30	15	10	3	30	8	50	11	110	14	100	11	50	19
00-03Z																														
03-06Z	110	29	60	25	90	14		0	80	7	60	14	80	20	170	5	50	11		0	50	10	150	5		0	110	10	100	16
06-09Z																														
09-12Z	50	14	40	27	40	19		0	70	11	50	4	100	9	40	20	350	5	100	14	80	9		0		0	80	11	140	16
X*u / X*v																														
X*u / X*v	11.49	-9.64	15.32	12.86	21.61	7.866	8.863	1.563			4	2E-16	-0	4	-0	3	8.999	10.72			5.909	1.042	18.39	15.43	12.22	-4.45	14.14	-16.9	8.863	1.563
X*u / X*v																														
X*u / X*v	4.5	-5.36	15.04	5.472	13.02	10.93			3.464	2			-1.03	-2.82	5	8.66	7.5	12.99	0.521	2.954	4	6.928	8.426	7.071	13.16	-4.79	10.83	-1.91	14.55	12.21
X*u / X*v																														
X*u / X*v	27.25	-9.92	21.65	12.5	14	9E-16			6.894	1.216	12.12	7	19.7	3.473	0.868	-4.92	8.426	7.071			7.66	6.428	2.5	-4.33			9.397	-3.42	15.76	-2.78
X*u / X*v																														
X*u / X*v	10.72	8.999	17.36	20.68	12.21	14.55			10.34	3.762	3.064	2.571	8.863	-1.56	12.86	15.32	-0.87	4.924	13.79	-2.43	8.863	1.563					10.83	1.91	10.28	-12.3
Sum u/Sum v	53.97	-15.9	69.36	51.51	60.85	33.35	8.863	1.563	20.69	6.978	19.19	9.571	27.53	3.091	18.72	22.06	24.06	35.71	14.31	0.523	26.43	15.96	29.31	18.17	25.37	-9.23	45.2	-20.3	49.46	-1.26
Arctan	106.4		53.4		61.27		80		71.37		63.49		83.59		40.33		33.97		87.91		58.88		58.21		110		114.2		91.46	
Direction	106.4		53.4		61.27		80		71.37		63.49		83.59		40.33		33.97		87.91		58.88		58.21		110		114.2		91.46	
Magnitude	16.25		22		18		2		6		6		9		10		11		4		6:00		10		7		14		15	

Avg Wind

		sin	cos
1	X*u / X*v	15.586	-4.599
2	X*u / X*v	17.662	13.117
3	X*u / X*v	16.004	8.771
4	X*u / X*v	2.216	0.391
5	X*u / X*v	5.212	1.757
6	X*u / X*v	4.922	2.455
7	X*u / X*v	8.944	1.004
8	X*u / X*v	6.148	7.242
9	X*u / X*v	6.286	9.330
10	X*u / X*v	4.247	0.155
11	X*u / X*v	7.062	4.264
12	X*u / X*v	8.500	5.268
13	X*u / X*v	6.343	-2.309
14	X*u / X*v	12.318	-5.524
15	X*u / X*v	14.995	-0.382
16	X*u / X*v	19.831	-6.108
17	X*u / X*v	18.641	2.016
18	X*u / X*v	10.894	7.542
19	X*u / X*v	7.211	5.794
20	X*u / X*v	1.000	1.732
21	X*u / X*v	11.874	5.880
22	X*u / X*v	0.739	0.130
23	X*u / X*v	2.000	3.464
24	X*u / X*v		
25	X*u / X*v	2.114	0.770
26	X*u / X*v	0.643	-0.766
27	X*u / X*v	8.714	4.906
28	X*u / X*v	8.906	2.500
29	X*u / X*v		
30	X*u / X*v	8.144	1.317
31	X*u / X*v		
	Sum u/Sum v	237.154	70.119
	Arctan	73.529	
	Direction	73.5	
	Magnitude	9.025	

Station:
NZCM

Monthly Climatology / Page 1

Month:
June 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	-29.2	-38.9	-34.1	6.00	6.00	6.00	5.00	23.00	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	0.00	16	106	34	130	51
2	-33.0	-36.6	-34.8	0.00	0.00	2.00	6.00	8.00	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	22	53	27	60	34	
3	-24.7	-33.7	-29.2	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	18	61	32	50	39		
4	-21.3	-29.4	-25.4	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	2	80	25	50	30		
5	-20.8	-29.5	-25.2	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	6	71	17	70	19		
6	-15.3	-33.0	-24.2	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	6	63	21	30	27		
7	-19.5	-29.1	-24.3	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	9	84	24	50	29		
8	-21.4	-32.9	-27.2	0.00	5.00	0.00	0.00	5.00	0.00	0.00	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	24	90	31		
9	-25.2	-33.5	-29.4	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	11	34	22	50	29		
10	-15.6	-33.9	-24.8	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	4	88	24	100	30		
11	-19.4	-28.9	-24.2	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	8	59	27	50	32		
12	-19.1	-30.5	-24.8	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	10	58	29	50	35		
13	-17.7	-26.6	-22.2	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	7	110	23	130	31		
14	-16.2	-25.9	-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	0.00	0.00	0.00	0.00	14	114	28	140	36		
15	-14.1	-28.3	-21.2	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	15	91	28	150	34		
16	-14.5	-26.8	-20.7	3.00	2.00	0.00	3.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	107	34	150	40		
17	-19.0	-32.5	-25.8	6.00	2.00	4.00	6.00	18.00	0.00	1.00	0.00	0.00	1.00	0.00	3.00	2.00	0.00	5.00	22.00	0.00	24.00	46.00	19	84	43	170	50		
18	-10.9	-19.3	-15.1	6.00	6.00	3.00	3.00	18.00	0.00	0.00	3.00	3.00	6.00	0.00	0.00	0.00	0.00	0.00	13.00	0.00	24.00	37.00	13	55	46	60	38		
19	-12.8	-21.7	-17.3	4.00	0.00	0.00	0.00	4.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	10.00	9	51	26	50	33		
20	-14.6	-20.9	-17.8	0.00	1.00	6.00	2.00	9.00	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	9.00	2	30	17	340	23		
21	-16.3	-28.7	-22.5	0.00	3.00	1.00	0.00	4.00	0.00	0.00	5.00	2.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	6.00	11.00	13	64	28	70	34		
22	-17.1	-28.0	-22.6	2.00	2.00	0.00	3.00	7.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.00	11.00	1	80	13	340	17		
23	-17.6	-28.3	-23.0	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	4	30	24	30	28		
24	-20.8	-30.7	-25.8	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		8	350	13		
25	-22.6	-34.7	-28.7	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	2	70	8	160	11		
26	-21.9	-33.4	-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	1	140	15	90	17		
27	-23.9	-31.0	-27.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	61	18	30	23		
28	-26.9	-31.8	-29.4	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	9	74	18	80	21		
29	-26.8	-32.9	-29.9	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		11	50	13		
30	-24.4	-35.2	-29.8	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	8	81	20	100	280		
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							

Monthly Statistics

Temp (C)	Visibility (hrs)															WX and Duration	Pcpn Total	Avg Wind		Max Wind		Max Gust		
	Max	Min	Avg	< 1600					< 4800					< 9999					Dir	Spd	Dir		Spd	
-10.9	-38.9	-25.2	27.0	27.0	22.0	31.0	6.0	9.0	16.0	7.0	0.0	3.0	3.0	0.0	38.0	25.0	153.0	216.0	0.00	74	9	60	46	280

Total Hrs =or< 1600:	107.0	Total Hrs =or< 4800:	38.0	Total Hrs < 9999:	6.0
Total Days =or< 1600:	11	Total Days =or< 4800:	8	Total Days < 9999:	2
% Hrs =or< 1600:	0.1	% Hrs =or< 4800:	0.1	% Hrs < 9999:	0.0
% Days =or< 1600:	0.4	% Days =or< 4800:	0.3	% Days < 9999:	0.1

Total Hrs	sn/sg/ic:	38.0
	fg/br:	25.0
	fg:	153.0
Total Days	sn/sg/ic:	3
	fg/br:	3
	fg:	10

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

Station:
NZCM

Monthly Climatology / Page 2

Month:
June 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	7	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	29.41	29.36	29.39	4	0.05	9.7	-77.0	
2	6	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.26	28.86	29.07	4	0.40	3.6	-71.0	
3	6	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.79	28.58	28.71	4	0.21	9.0	-68.0	
4	5	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.59	28.51	28.54	1	0.08	8.1	-56.0	
5	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	28.72	28.63	28.69	3	0.09	8.7	-52.0	
6	4	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	6.00	2.00	11.00	28.79	28.65	28.73	3	0.14	17.7	-41.0		
7	3	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.56	28.47	28.52	4	0.09	9.6	-54.0	
8	2	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	29.04	28.62	28.87	4	0.42	11.5	-57.0	
9	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	28.94	28.91	28.93	4	0.03	8.3	-59.0	
10	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	28.94	28.69	28.80	2	0.25	18.3	-48.0	
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	29.16	28.91	29.04	4	0.25	9.5	-51.0	
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	29.20	29.08	29.15	3	0.12	11.4	-60.0	
13	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	29.30	29.21	29.25	2	0.09	8.9	-43.0	
14	2	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.46	29.31	29.41	4	0.15	9.7	-44.0	
15	2	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.32	29.27	29.30	4	0.05	14.2	-50.0	
16	5	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.00	0.00	0.00	0.00	0.00	29.25	28.83	29.03	4	0.42	12.3	-57.0	
17	8	10	0.00	0.00	0.00	0.00	0.00	0.00	6.00	2.00	0.00	5.00	13.00	0.00	4.00	6.00	1.00	11.00	29.54	29.02	29.35	4	0.52	13.5	-62.0	
18	6	30	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	4.00	6.00	6.00	3.00	19.00	29.42	29.32	29.37	4	0.10	8.4	-43.0	
19	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	29.44	29.37	29.40	4	0.07	8.9	-47.0	
20	6	5	0.00	1.00	6.00	2.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	5.00	0.00	0.00	10.00	29.45	29.37	29.42	1	0.08	6.3	-35.0	
21	4	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.55	29.33	29.43	4	0.22	12.4	-51.0	
22	6	5	6.00	2.00	0.00	0.00	8.00	0.00	4.00	6.00	3.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	29.51	29.36	29.45	1	0.15	10.9	-41.0	
23	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	29.30	29.20	29.26	1	0.10	10.7	-47.0	
24	3	10	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	3.00	0.00	3.00	0.00	0.00	3.00	29.20	29.11	29.16	0	0.09	9.9	-33.0		
25	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	28.96	28.91	28.93	1	0.05	12.1	-38.0	
26	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	29.07	28.96	29.02	1	0.11	11.5	-44.0	
27	3	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	4.00	29.17	29.14	29.16	4	0.03	7.1			
28	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	0.00	3.00	3.00	29.32	29.18	29.23	3	0.14	4.9	-59.0		
29	3	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00	29.43	29.37	29.41	0	0.06	6.1	-49.0		
30	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	29.53	29.44	29.48	3	0.09	10.8	-57.0	
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
3	6.0	3.0	6.0	2.0	11.0	6.0	6.0	12.0	12.0	23.0	20.0	9.0	29.55	28.47	29.12	85	-77.0			
Total Hrs =or< 500:					17.0	Total Hrs =or< 1000:					35.0	Total Hrs =or< 3000:					64.0	Total Days	30	
Total Days =or< 500:					2	Total Days =or< 1000:					5	Total Days =or< 3000:					8			
% Hrs =or< 500:					0.0	% Hrs =or< 1000:					0.0	% Hrs =or< 3000:					0.1			
% Days =or< 500:					0.1	% Days =or< 1000:					0.2	% Days =or< 3000:					0.3			