

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	40	5	2.3	2.4	0.4										10	100	1250	13	90	1239	6	110				29.20	
15-18Z	320	3	4.1	4.1	2.1										9	90	1618	12	90	1626	6	150				29.18	
18-21Z	110	9	2.9	3.4	1.9										10	120	2045	15	150	2017	7	90				29.17	
21-24Z	170	14	2.0	3.4	1.5										16	170	2350	21	200	2221	7	70				29.14	
12 hr Max/Min				4.1	0.4																						
00-03Z	140	18	1.4	2.2	1.1										24	150	126	28	160	124	7	130				29.14	
03-06Z	150	17	0.7	1.3	0.6										21	140	302	26	150	258	8	20				3	29.15
06-09Z	130	13	0.1	0.9	-0.1										18	140	820	25	160	827	7	20				3	29.15
09-12Z	70	10	-0.9	0.5	-1.3								SN	1							7	20				3	29.14
12 hr Max/Min				2.2	-1.3																						
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	
131	11	4.1	-1.3	1.4	00-06L	0	0	0	-17.0	1.0	1	0	0	0.00	150	24	126	160	29	926	7	20	00-06L	0	0	0	
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															Max	Min	Avg				8	0.06	5.4	06-12L	0	0	0
															29.20	29.14	29.16				12-18L	0	0	3			
																					18-24L	0	0	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: 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	110	15	-0.6	-0.4	-0.9				SN	2					18	140	1405	26	130	1450	7	25			3	29.13
15-18Z	140	15	-0.7	-3.1	-0.8									T	20	140	1522	29	150	1527	8	25			3	29.13
18-21Z	130	12	-0.9	-0.5	-1.1				SN	1					20	140	2000	28	140	1823	8	25			3	29.13
21-24Z	150	9	-0.1	0.3	-0.7									T	15	140	2121	22	150	2109	8	10			3	29.14
12 hr Max/Min				0.3	-1.1																					
00-03Z	260	8	-0.5	0.6	-0.6				SN	2					12	80	219	16	70	218	8	20			3	29.13
03-06Z	70	9	-2.1	-0.5	-2.3									T	13	60	535	16	60	535	8	15			3	29.15
06-09Z	70	7	-1.8	-1.4	-2.5										14	60	627	18	50	619	7	20			3	29.16
09-12Z	60	14	-3.3	-2.3	-3.5										20	60	935	24	50	1141	4				2	29.16
12 hr Max/Min				0.6	-3.5																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd			Time	Time	<500		<1000
110	11	0.6	-3.5	-1.5	00-06L	0	0	0	-20.0	-4.0	5	0	0	0.00	140	20	1522	150	29	1527	7	10	00-06L	0	0	6
					06-12L	0	0	0						Altimeter			Total Obs	Daily Pres	Daily Temp							
					12-18L	0	0	0						29.16	29.13	29.14	8	0.03	4.1							
					18-24L	0	0	0									06-12L	0	0	6						
																		12-18L	0	0	6					
																		18-24L	0	0	5					

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 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	60	13	-0.8	-0.5	-3.0										19	30	1402	24	40	1401	3				29.15	
15-18Z	230	10	-0.4	-0.4	-1.7										16	50	1743	21	50	1505	3				29.15	
18-21Z	270	6	1.3	1.4	-0.6										14	50	1803	16	50	1803	3				29.16	
21-24Z	280	5	2.8	3.6	1.5										10	140	2301	16	150	2232	3				29.13	
12 hr Max/Min				3.6	-3.0																					
00-03Z		5	3.9	5.4	2.9										8	110	228	14	140	223	2				29.13	
03-06Z	50	12	1.6	4.3	0.5										13	50	547	18	50	547	2				29.11	
06-09Z	50	15	-0.1	1.6	-0.6										18	40	718	23	50	725	1				29.11	
09-12Z	60	17	-1.9	0.4	-2.0										18	60	1145	22	60	1144	2				29.12	
12 hr Max/Min				5.4	-2.0																					
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
46	10	5.4	-3.0	1.2	00-06L	0	0	0	-19.0	-2.0	0	0	0	0.00	30	19	1402	40	24	1401	2		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						29.16	29.11	29.13	7	0.05	8.4							

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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: 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	70	11	-0.6	0.2	-2.2										16	60	1436	21	60	1203	5	180				29.12
15-18Z	300	8	1.5	2.0	-0.7										14	60	1527	17	60	1527	6	180				29.13
18-21Z	300	5	2.9	2.9	-1.1										14	70	1918	18	60	1918	6	180				29.15
21-24Z	310	11	2.4	4.0	-0.1										12	110	2202	15	100	2202	6	180				29.16
12 hr Max/Min				4.0	-2.2																					
00-03Z	250	16	-1.8	2.8	-2.3										19	60	207	23	50	249	2					29.16
03-06Z	90	13	-2.8	-1.6	-3.1										18	60	335	22	50	336	3					29.20
06-09Z	90	16	-4.1	-2.6	-4.1										18	90	747	23	100	638	6	14			1	29.22
09-12Z	90	15	-4.9	-3.8	-5.0										21	90	1008	25	110	1059	7	18			3	29.25
12 hr Max/Min				2.8	-5.0																					
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
59	12	4.0	-5.0	-0.5	00-06L	0	0	0	-23.0	-9.0	0	0	0	0.00	90	21	1008	110	25	1059	5	14	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						29.25	29.12	29.17	Taken	Diff	Diff							
																8	0.13	9.0								

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

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McMurdo Station Daily Observation Worksheet

Date: 05

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	80	7	-4.6	-4.3	-5.3										19	90	1225	24	90	1225	6	27			3	29.28
15-18Z	90	8	-3.7	-3.7	-5.4										15	90	1225	24	90	1225	7	27			3	29.28
18-21Z		4	-2.0	-1.9	-3.8				SN	1					11	130	1926	16	160	1814	7	28			3	29.31
21-24Z		3	0.8	1.3	-2.3				SN	3					7	160	2311	9	70	2311	7	35			2	29.31
12 hr Max/Min				1.3	-5.4																					
00-03Z		3	-0.1	2.5	-0.1				SN	2					6	180	236	8	200	157	7	35				29.29
03-06Z		0	2.4	3.7	0.2										5	260	440	7	280	439	6	50				29.28
06-09Z		4	1.8	2.7	0.2										6	240	829	8	240	807	4					29.28
09-12Z		70	-3.3	2.3	-3.5										10	70	1138	14	60	1146	3					29.29
12 hr Max/Min				3.7	-3.5																					
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)		
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Dir			Spd	Time	Time
00-06L	0	0	0	0	-22.0	-8.0	6	0	0	0.00	90	19	1225	90	24	1225	6	27	00-06L	0	0	6				
06-12L	0	0	0	0																						
12-18L	0	0	0	0																						
18-24L	0	0	0	0																						
Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff																					
Max	Min	Avg				29.31	29.28	29.29	3	0.03	9.1															

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

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

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McMurdo Station Daily Observation Worksheet

Date: 06

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	110	4	0.4	0.4	-3.2										9	70	1313	12	70	1258					29.28	
15-18Z	70	15	-4.4	0.8	-4.5										14	60	1750	18	70	1746	5	60			29.28	
18-21Z	70	13	-3.7	-3.6	-4.9										16	60	1906	19	70	2004	4				29.29	
21-24Z	80	17	-4.2	-3.6	-4.9										20	50	2116	23	50	2116	5	90			29.31	
12 hr Max/Min				0.8	-4.9																					
00-03Z	70	9	-4.3	-3.9	-4.6										15	80	0	19	70	2	4				29.30	
03-06Z	80	11	-3.9	-3.4	-4.5										19	50	505	22	60	504	3				29.29	
06-09Z	80	9	-5.0	-3.5	-5.5										14	90	741	17	90	738	3				29.29	
09-12Z	360	6	-5.7	-4.5	-6.1										15	60	1017	18	50	1003	6	120			29.30	
12 hr Max/Min				-3.4	-6.1																					
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	Cover	CIG	Time	<500	<1000	<3000
72	11	0.8	-6.1	-2.7	00-06L	0	0	0	-22.0	-8.0	0	0	0	0.00	50	20	2116	50	23	2116	4	60	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.31	29.28	29.29	8	0.03	6.9							

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

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McMurdo Station Daily Observation Worksheet

Date: 07

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z		0	-4.4	-4.3	-6.2										6	40	1200	7	20	1205	6	110				29.28
15-18Z		4	-1.6	-1.4	-5.8										8	320	1739	9	320	1739	6	110				29.28
18-21Z	300	5	-1.2	-0.2	-1.8										8	320	1937	11	320	1909	7	110				29.28
21-24Z		0	0.4	0.5	-1.6										6	310	2240	8	290	2212	7	100				29.28
12 hr Max/Min				0.5	-6.2																					
00-03Z		0	1.5	2.0	-0.1										3	230	249	5	210	244	7	100				29.28
03-06Z		3	3.5	4.8	0.6										5	120	309	7	180	306	7	130				29.28
06-09Z	320	4	0.2	2.5	-0.7										5	270	830	7	310	850	7	30			2	29.29
09-12Z		7	-1.1	0.2	-1.4										9	320	1132	12	320	1131	6	30			3	29.30
12 hr Max/Min				4.8	-1.4																					
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
309	3	4.8	-6.2	-0.7	00-06L	0	0	0	-14.0	7.0	0	0	0	0.00	320	9	1132	320	12	1131	7	30	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.30	29.28	29.28	2	0.02	11.0							

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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	330	4	-0.7	-0.6	-1.2										9	320	1209	13	310	1230	3				1	29.29
15-18Z	340	9	-1.0	-0.7	-1.3										10	340	1739	14	340	1708	2					29.29
18-21Z	340	9	-0.6	-0.2	-1.2										9	340	2050	13	330	1828	2					29.29
21-24Z	40	8	2.6	2.8	-0.5										9	340	2145	12	350	2145	1					29.30
12 hr Max/Min				2.8	-1.3																					
00-03Z	30	8	-1.0	-1.5	-1.6										10	30	242	12	40	241	2					29.30
03-06Z		5	0.1	1.0	-1.7										10	30	257	12	30	333	2					29.31
06-09Z	260	3	0.0	2.5	-0.4										7	30	559	9	30	640	2					29.31
09-12Z		4	-1.9	0.1	-2.1										6	290	1101	8	280	1100	6	13			1	29.31
12 hr Max/Min				2.5	-2.1																					
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	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	
357	6	2.8	-2.1	0.4	00-06L	0	0	0	-11.0	12.0	0	0	0	0.00	340	10	1739	340	14	1708	3	13	00-06L	0	0	1
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	0	0							29.31	29.29	29.30	Taken	Diff	Diff			18-24L	0	0	1
																		6	0.02	4.9						

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McMurdo Station Daily Observation Worksheet

Date: 09

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	320	6	-2.2	-1.7	-2.6										7	330	1448	11	320	1446	8	9		1	2	29.30
15-18Z	310	7	-2.8	-2.2	-2.8										9	300	1545	13	310	1522	8	10		3	3	29.31
18-21Z	310	6	-1.6	-1.6	-3.3										10	320	1924	14	310	1923	7	13		2	3	29.31
21-24Z		0	0.6	0.9	-2.2										7	310	2114	9	300	2113	7	13			3	29.32
12 hr Max/Min				0.9	-3.3																					
00-03Z		0	2.9	3.7	0.6										3	220	243	5	230	245	6	18			3	29.31
03-06Z		280	6	0.7	3.3	0.2									6	270	549	8	290	541	3					29.31
06-09Z		4	-0.9	0.7	-1.0										8	270	650	9	310	733	3					29.31
09-12Z		290	4	-2.1	-2.2										6	280	1114	8	310	859	7	15		2	2	29.33
12 hr Max/Min				3.7	-2.2																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Sky Cover	est CIG	Time	<500	<1000	<3000
303	4	3.7	-3.3	0.2	00-06L	0	0	0	-16.0	3.0	0	0	0	0.00	320	10	1924	310	14	1923	6	9	00-06L	0	4	5
					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						29.33	29.30	29.31	Taken	Diff	Diff							
																5	0.03	7.0								

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		<3000
12-15Z			6	-2.6	-2.0	-2.9									9	310	1420	11	310	1420	7	15			3	29.34	
15-18Z	320		6	-3.2	-2.3	-3.2									8	310	1640	11	310	1640	8	15			3	29.34	
18-21Z			0	-2.3	-2.1	-3.7									8	340	1909	10	350	1859	8	12			3	29.38	
21-24Z			4	-3.5	-0.4	-3.8									10	70	2340	12	70	2339	7	25			3	29.39	
12 hr Max/Min					-0.4	-3.8																					
00-03Z			40	9	-1.1	-0.8	-2.6								11	50	236	15	30	133	4				1	29.38	
03-06Z			60	11	-2.0	-0.7	-2.0								13	60	544	17	60	513	8	140				29.39	
06-09Z			90	7	-1.5	-0.9	-2.0								13	60	612	16	50	628	8	160				29.40	
09-12Z			90	10	-3.9	-1.6	-4.0								13	70	1119	15	60	1104	8	160				29.41	
12 hr Max/Min					-0.7	-4.0																					
Avg Wind		Max		Min		Avg		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)		
Dir	Spd	Temp	Temp	Temp	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
59	7	-0.4	-4.0	-2.2		00-06L	0	0	0	-17.0	1.0	0	0	0	0.00	60	13	544	60	17	513	7	12	00-06L	0	0	6
						06-12L	0	0	0							Altimeter											
						12-18L	0	0	0							Total Obs											
						18-24L	0	0	0							Max											
															Taken												
															29.41												
															29.34												
															29.38												
															5												
															0.07												
															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: 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	90	11	-4.4	-4.1	-4.9										11	90	1443	15	80	1441	8	160				29.41
15-18Z	70	7	-4.3	-3.8	-5.0										12	90	1503	15	90	1545	7	160				29.42
18-21Z	90	10	-4.0	-3.0	-4.4										13	80	2022	16	80	2012	7	150				29.43
21-24Z	100	9	-3.3	-2.2	-4.0										12	90	2059	13	100	2339	7	180				29.43
12 hr Max/Min				-2.2	-5.0																					
00-03Z	110	9	-2.6	-2.2	-3.2										11	110	157	14	110	144	8	150				29.40
03-06Z	100	9	-2.7	-2.4	-3.0										10	100	457	14	100	527	8	120				29.38
06-09Z	90	8	-3.6	-2.4	-3.7										10	80	743	13	90	745	8	120				29.35
09-12Z	80	7	-3.1	-3.0	-4.7										11	70	1048	13	90	1038	7	120				29.31
12 hr Max/Min				-2.2	-4.7																					
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
92	9	-2.2	-5.0	-3.6	00-06L	0	0	0	-17.0	1.0	0	0	0	0.00	80	13	2022	80	16	2012	8	120	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Obs	Pres	Temp										
					18-24L	0	0	0						29.43	29.31	29.39	Taken	Diff	Diff							
													8	0.12	2.8											

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: 12

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	70	6	-2.0	-2.0	-3.2										10	50	1259	11	50	1426	3				29.27			
15-18Z		0	-2.7	-0.9	-4.6			1		BR	1				6	60	1458	8	60	1458	3				29.25			
18-21Z		0	1.3	1.6	-2.4			3		BCFG	3				4	70	1906	5	70	1906	2				29.21			
21-24Z	20	5	-0.6	2.0	-0.6			3		BCFG	3				7	30	2339	8	30	2348	3				29.18			
12 hr Max/Min				2.0	-4.6																							
00-03Z	110	6	-1.2	0.5	-1.7			2		BCFG	2				8	30	133	10	50	159	6	150			29.15			
03-06Z	120	11	-4.2	-1.7	-4.5										12	120	546	17	140	546	3				29.15			
06-09Z	80	9	-5.3	-4.3	-6.3										15	110	746	18	100	745	2				29.15			
09-12Z	80	13	-9.3	-5.4	-9.4	1	1			BR	1				19	90	1143	23	80	1144	2				29.17			
12 hr Max/Min				0.5	-9.4																							
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		
86	6	2.0	-9.4	-3.7	00-06L	0	0	1	-28.0	-18.0	0	9	0	0.00	90	19	1143	80	23	1144	3	150	00-06L	0	0	0		
					06-12L	0	0	6						Altimeter			Total	Daily	Daily									
					12-18L	0	0	2						Obs	Pres	Temp												
					18-24L	0	1	1						Taken	Diff	Diff												
														29.27	29.15	29.19	6	0.12	11.4									

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

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

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



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		<3000
12-15Z	70	16	-9.7	-9.2	-10.3				SN	1					19	70	1418	26	60	1342	6	10			1	1	29.17
15-18Z	60	19	-11.4	-8.4	-15.9				IC	3				T	22	60	1716	28	60	1718	2						29.18
18-21Z	60	16	-7.4	-7.1	-14.6				IC	3					21	60	1829	27	60	1813	3						29.20
21-24Z	50	14	-6.2	-5.4	-7.5				IC	2					16	50	2108	19	50	2107	6	30					29.21
12 hr Max/Min				-5.4	-15.9																						
00-03Z	60	9	-5.1	-4.7	-5.9										15	50	134	18	50	145	7	30				3	29.19
03-06Z	90	7	-4.8	-4.6	-5.6										14	50	338	16	50	337	7	30				3	29.17
06-09Z	50	12	-6.9	-4.7	-6.3				SN	2					13	50	848	16	60	847	7	30				3	29.17
09-12Z	40	10	-6.9	-6.3	-7.3				SN	3				0.01	15	50	927	19	50	917	7	30				3	29.16
12 hr Max/Min				-4.6	-7.3																						
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000	
59	13	-4.6	-15.9	-10.3	00-06L	0	0	0	-40.0	-40.0	13	0	0	0.01	60	22	1716	60	28	1718	6	10	00-06L	0	1	1	
					06-12L	0	0	0						Altimeter			Total	Daily	Daily								
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp								
					18-24L	0	0	0						29.21	29.16	29.18	Taken	Diff	Diff								
																8	0.05	11.3									

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 14

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			
	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	60	10	-7.0	-6.6	-7.1				SN	3					12	50	1448	17	30	1226	7	30			3	
15-18Z	70	8	-7.2	-7.0	-7.3				-SN/-SG	3				T	12	60	1537	15	50	1548	8	25			3	
18-21Z	80	7	-6.8	-6.7	-7.4				-SN/-SG	3					10	80	2040	14	110	1906	7	44			2	
21-24Z	60	7	-6.3	-5.9	-7.3			1	-SN/-SG	3				0.02	12	70	2249	14	60	2249	8	25			1	
12 hr Max/Min				-5.9	-7.4																					
00-03Z		0	-2.1	-1.8	-6.1				3 -SN/-SG	3					9	120	112	12	120	112	8	25			3	
03-06Z		0	-2.1	-1.3	-3.3				3 SN	3				T	5	310	431	8	270	419	8	25			3	
06-09Z	30	6	-4.1	-1.5	-4.3				1 SN	2					9	30	848	10	40	849	8	25			1	
09-12Z	170	3	-3.9	-3.2	-4.3				SN	1				T	9	30	940	11	30	936	7	40				
12 hr Max/Min				-1.3	-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 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.

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
00-06L	66	5	-1.3	-7.4	-4.4	0	0	0	-20.0	-4.0	21	0	0	0.02	50	12	1448	30	17	1226	8	25	00-06L	0	0
06-12L						0	0	1							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0
12-18L						0	0	6							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0
18-24L						0	0	1						29.17	29.15	29.16							18-24L	0	0
															6	0.02	6.1								

Alt
(in)
29.16
29.16
29.17
29.17
29.15
29.15
29.15
29.15
<3000
6
3
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	320	3	-3.3	-3.0	-4.1										6	340	1301	9	320	1258	7	70				29.15
15-18Z	310	3	-2.7	-2.4	-3.4										5	300	1740	7	320	1743	7	70				29.17
18-21Z		0	-1.9	-1.1	-2.8										6	340	1826	7	340	1835	7	70				29.19
21-24Z		0	1.6	2.5	-1.7										4	260	2313	5	240	2315	6	80				29.21
12 hr Max/Min				2.5	-4.1																					
00-03Z	190	3	-1.0	2.4	-1.3										4	190	231	5	190	224	6	80				29.22
03-06Z	190	3	1.7	2.4	0.4										4	180	449	5	180	546	3					29.23
06-09Z		0	-0.2	2.3	-0.7										5	200	729	6	190	744	1					29.25
09-12Z	300	5	-2.7	-0.9	-3.0										7	310	1147	9	300	1139	2					29.26
12 hr Max/Min				2.4	-3.0																					

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

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

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

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)						
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000		
275	2	2.5	-4.1	-0.8	00-06L	0	0	0	-9.0	16.0	0	0	0	0.00	310	7	1147	320	9	1258	5	70	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	29.26	29.15	29.21	5	0.11	6.6	12-18L	0	0	0
					18-24L	0	0	0															18-24L	0	0	0	



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	340	8	-2.8	-2.4	-3.2										9	340	1450	14	340	1413	3				29.26	
15-18Z		0	-1.4	-0.6	-2.8										9	340	1537	12	340	1525	6	90			29.28	
18-21Z		0	0.4	1.9	-3.3										4	180	2034	4	190	2041	2				29.31	
21-24Z	60	8	-1.8	3.0	-1.9										8	60	2347	10	70	2347	1				29.33	
12 hr Max/Min				3.0	-3.3																					
00-03Z	100	9	-4.1	-1.1	-4.4										12	110	34	14	110	250	1				29.34	
03-06Z	90	10	-4.5	-4.2	-5.1										16	90	414	21	90	413	1				29.35	
06-09Z	100	11	-5.3	-4.6	-5.5										14	70	621	17	100	832	1				29.36	
09-12Z	70	11	-6.1	-5.3	-6.4										14	90	1042	17	80	1042	4				29.36	
12 hr Max/Min				-1.1	-6.4																					

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
75	7	3.0	-6.4	-1.7	00-06L	0	0	0	-20.0	-4.0	0	0	0	0.00	90	16	414	90	21	413	2	90	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	29.36	29.26	29.32			12-18L	0	0	0
					18-24L	0	0	0															18-24L	0	0	0
																		6	0.10	9.4						



McMurdo Station Daily Observation Worksheet

Date: 17

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	110	11	-6.9	-4.4	-7.1										13	90	1200	16	90	1203	2				29.36	
15-18Z	100	11	-9.3	-6.9	-11.0		1	1	IC		1	BR	1		17	100	1719	21	120	1714	1				29.35	
18-21Z	80	14	-10.1	-7.4	-10.1	3	3	3				BR	3		20	70	2013	23	80	2048	1				29.36	
21-24Z	70	16	-9.2	-9.0	-10.3	3	3	3	IC		1	BR	3		19	70	2124	23	80	2313	4				29.36	
12 hr Max/Min			-4.4	-11.0																						
00-03Z	100	14	-7.7	-7.7	-9.3	2	2	2				BR	2		17	80	22	23	100	222	4				29.35	
03-06Z	70	13	-8.0	-7.7	-8.3				IC		3				19	70	441	24	70	442	2				29.34	
06-09Z	90	13	-8.7	-7.7	-8.8				IC		1				18	70	700	22	70	704	2				29.34	
09-12Z	80	13	-9.9	-8.7	-10.1										19	70	1112	24	60	1108	3				29.31	
12 hr Max/Min			-7.7	-10.1																						
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	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	
86	13	-4.4	-11.0	00-06L	0	1	1	-26.0	-15.0	6	9	0	0.00	70	20	2013	70	24	442	2		00-06L	0	0	0	
				06-12L	6	6	6					Altimeter			Total	Daily	Daily				06-12L	0	0	0		
				12-18L	2	2	2					Max	Min	Avg	Obs	Pres	Temp				12-18L	0	0	0		
				18-24L	0	0	0					29.36	29.31	29.35	Taken	Diff	Diff				18-24L	0	0	0		
															8	0.05	6.6									

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: 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	Temp	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z			0	-5.5	-5.0	-10.6										19	70	1224	22	70	1230	3				29.28	
15-18Z	160	3	-7.2	-3.6	-7.3		1	1			BR	1			5	150	1795	5	180	1738	2				29.25		
18-21Z			0	-2.6	-2.5	-7.8					BCFG	3			4	260	1840	5	270	1839	4				29.23		
21-24Z			0	-4.2	-2.5	-5.2					VCFG	3			4	270	2248	5	240	2322	5	10		1	29.20		
12 hr Max/Min				-2.5	-10.6																						
00-03Z			0	-2.3	-1.5	-4.9									4	250	12	5	270	127	7	15			3	29.16	
03-06Z	310	3	-3.5	-2.0	-3.8										7	310	458	9	290	448	7	23			3	29.10	
06-09Z			0	-3.4	-3.1	-3.7									7	340	800	10	340	757	7	23			3	29.04	
09-12Z			0	-4.3	-3.5	-5.2									4	260	1117	6	320	1112	7	18			3	28.98	
12 hr Max/Min				-1.5	-5.2																						
Avg Wind		Max	Min	Avg		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
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	
235	1	-1.5	-10.6	-6.1	00-06L	0	1	1	-31.0	-24.0	0	7	0	0.00	70	19	1224	70	22	1230	5	10	00-06L	0	0	0	
					06-12L	0	0	0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
					12-18L	0	0	0						29.28	28.98	29.16	2	0.30	9.1				12-18L	0	0	6	
					18-24L	0	0	0															18-24L	0	0	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: 19

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z			0	-5.7	-3.9	-5.9									6	300	1324	7	220	1338	7	15			3	28.92
15-18Z			0	-4.5	-4.1	-6.1									4	270	1739	5	270	1737	7	15			3	28.87
18-21Z	40		7	-3.6	-1.5	-4.5									8	30	2050	10	30	2049	4				1	28.83
21-24Z			0	-2.7	-2.3	-4.3									10	30	2311	13	30	2302	1					28.81
12 hr Max/Min				-1.5	-6.1																					
00-03Z			5	-2.1	-0.3	-2.7									8	160	127	10	150	126	2					28.81
03-06Z	110		6	-3.3	-1.9	-3.9				-SN	1			TR	8	110	547	9	100	546	7	40				28.81
06-09Z	90		5	-3.9	-3.3	-4.5				-SN	2				9	100	745	12	100	644	7	45				28.83
09-12Z	70		6	-3.4	-3.4	-4.8								TR	10	50	945	12	40	942	5	60				28.86
12 hr Max/Min				-0.3	-4.8																					
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
76	4	-0.3	-6.1	-3.2	00-06L	0	0	0	-15.0	5.0	3	0	0	0.00	30	10	2311	30	13	2302	5	15	00-06L	0	0	6
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	1
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	0	0							28.92	28.81	28.84	Taken	Diff	Diff			18-24L	0	0	0
																		4	0.11	5.8						

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 20

Time	Winds			3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	<3000	
12-15Z	70	4	-3.3	-3.1	-4.3										8	70	1346	10	80	1346	2				28.89		
15-18Z	180	3	-2.2	-0.5	-3.3										5	190	1737	6	180	1649	1				28.92		
18-21Z		0	0.1	0.2	-3.7										8	70	1943	10	60	1918	2				28.97		
21-24Z	100	8	-4.6	0.8	-5.4										11	110	2259	14	110	2258	6	60			29.05		
12 hr Max/Min				0.8	-5.4																						
00-03Z	140	19	-6.6	-4.4	-6.7										21	140	242	26	160	242	6	60			29.09		
03-06Z	140	11	-7.2	-6.1	-7.2				-SN	2				TR	19	140	319	24	150	312	7	50			29.15		
06-09Z	150	10	-7.3	-6.0	-7.5				-SN	3					18	150	647	21	140	649	7	50			29.22		
09-12Z	70	12	-8.7	-7.0	-8.9				-SN	3				TR	14	70	1143	17	70	1150	7	70			29.27		
12 hr Max/Min				-4.4	-8.9																						
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	
123	8	0.8	-8.9	-4.1	00-06L	0	0	0	-26.0	-15.0	8	0	0	0.00	140	21	242	160	26	242	5	50	00-06L	0	0	0	
					06-12L	0	0	0						Altimeter			Total	Daily	Daily								
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp								
					18-24L	0	0	0						29.27	28.89	29.07	Taken	Diff	Diff								
																7	0.38	9.7									

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 21

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		<3000
12-15Z	60	15	-9.6	-9.0	-9.6				SN	2					17	50	1421	22	50	1420	7	80				29.30	
15-18Z	80	9	-9.7	-9.5	-10.0				SN	3				T	17	60	1519	22	60	1519	7	120				29.33	
18-21Z	80	12	-9.4	-9.2	-9.8				SN	3					16	90	1905	21	90	2042	7	80				29.32	
21-24Z	80	10	-8.2	-8.2	-9.8									T	17	70	2118	23	60	2145	7	30			1	29.31	
12 hr Max/Min				-8.2	-10.0																						
00-03Z	10	5	-4.0	-3.1	-8.6										14	70	44	19	60	21	7	110				29.30	
03-06Z	100	5	-4.4	-3.0	-5.2										5	90	544	7	110	545	7	110				29.28	
06-09Z		0	-5.0	-1.2	-6.0				SN	1					7	110	601	9	110	616	6	25			1	29.27	
09-12Z	320	3	-4.1	-3.9	-5.1				SN	2				T	5	310	1149	6	310	1149	7	80			1	29.25	
12 hr Max/Min				-1.2	-8.6																						
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	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
68	7	-1.2	-10.0	-5.6	00-06L	0	0	0	-28.0	-18.0	9	0	0	0.00	50	17	1421	60	23	2145	7	25	00-06L	0	0	0	
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	1	
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0	
					18-24L	0	0	0							29.33	29.25	29.30	Taken	Diff	Diff			18-24L	0	0	2	
																	7	0.08	8.8								

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: 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			0	-5.0	-3.9	-5.2									5	290	1158	6	300	1200	7	25			3	29.23
15-18Z			0	-4.6	-3.8	-5.0									3	180	1750	5	200	1750	7	30			3	29.20
18-21Z	190		3	-1.4	-0.5	-4.5									6	110	1840	7	70	1843	6	30			3	29.19
21-24Z			3	-0.8	0.5	-2.3									4	190	2217	5	180	2101	4				1	29.19
12 hr Max/Min				0.5	-5.2																					
00-03Z			3	1.3	1.4	-0.8									5	190	117	6	190	117	3					29.17
03-06Z			3	-0.2	1.6	-0.2									4	240	509	5	240	545	3					29.17
06-09Z			5	-1.7	0.6	-2.0									7	300	847	9	310	847	4					29.18
09-12Z	320		6	-3.1	-1.6	-3.4									9	320	1141	12	310	1050	2					29.20
12 hr Max/Min				1.6	-3.4																					

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

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

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

Avg Wind Dir	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
291	3	1.6	-5.2	-1.8	00-06L	0	0	0	-12.0	10.0	0	0	0	0.00	320	9	1141	310	12	1050	5	25	00-06L	0	0	6
					06-12L	0	0	0							Altimeter								06-12L	0	0	4
					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							29.23	29.17	29.19	2	0.06	6.8			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 23

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	320	9	-3.0	-2.8	-3.4										9	320	1444	13	340	1421	1				29.21	
15-18Z		0	-2.1	-1.5	-4.1										8	310	1506	10	320	1506	0				29.24	
18-21Z	250	3	-0.1	1.7	-2.6										4	240	2050	5	250	2049	0				29.27	
21-24Z	310	6	-0.2	1.9	-0.7										6	310	2350	9	320	2342	1				29.30	
12 hr Max/Min				1.9	-4.1																					
00-03Z		5	1.0	1.3	-0.2										7	300	231	10	320	146	0				29.30	
03-06Z		0	3.4	3.4	1.1										5	250	326	8	270	300	1				29.31	
06-09Z	330	7	-1.4	3.1	-1.6										9	320	846	15	340	845	1				29.32	
09-12Z	330	9	-2.5	-1.7	-3.4										15	330	1134	23	330	1148	1				29.33	
12 hr Max/Min				3.4	-3.4																					

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
318	5	3.4	-4.1	-0.4	00-06L	0	0	0	-17.0	1.0	0	0	0	0.00	330	15	1134	330	23	1148	1		00-06L	0	0	0
					06-12L	0	0	0							Altimeter						1		06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.33	29.21	29.29	5	0.12	7.5			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	<1000	<3000	
12-15Z	260	3	-3.4	-2.1	-3.7										14	320	1203	20	320	1228	1				29.34		
15-18Z	310	5	-3.2	-2.6	-4.6									7	310	1544	10	310	1539	2				29.35			
18-21Z	320	5	-2.2	-1.9	-3.5									6	320	2050	9	300	1939	2				29.37			
21-24Z	330	10	0.6	0.9	-2.1									13	320	2238	21	340	2237	2				29.38			
12 hr Max/Min			0.9	-4.6																							
00-03Z	330	11	0.5	0.7	-0.4										14	320	122	23	340	21	2				29.38		
03-06Z		3	0.7	1.0	0.3										13	320	413	19	310	343	5	150			29.39		
06-09Z		0	-0.9	2.4	-1.2										5	180	647	6	310	839	7	40			29.42		
09-12Z	10	3	-2.2	-0.6	-2.3										5	340	1116	6	340	1116	7	31			29.43		
12 hr Max/Min			2.4	-2.3																							
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000	
324	5	2.4	-4.6	-1.1	00-06L	0	0	0	-17.0	1.0	0	0	0	0.00	320	14	1203	340	23	21	4	31	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						29.43	29.34	29.38	Taken	Diff	Diff								
																6	0.09	7.0									

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	<1000		<3000
12-15Z	40	6	-1.7	-0.8	-2.5										7	30	1431	9	40	1429	7	150			2	29.44	
15-18Z			0	-0.7	-2.3										8	30	1537	10	30	1536	8	40				29.46	
18-21Z	100	8	-5.6	-0.7	-5.8										12	100	1926	14	100	1926	8	40				29.48	
21-24Z	90	10	-5.8	-5.1	-5.9										12	90	2342	17	110	2308	7	60				29.49	
12 hr Max/Min				-0.6	-5.9																						
00-03Z	60	14	-6.3	-4.2	-6.1										15	50	101	17	70	247	7	60				29.47	
03-06Z	70	10	-5.9	-5.8	-6.3										17	50	302	19	60	306	8	80				29.47	
06-09Z	50	13	-6.8	-6.0	-6.8										16	50	757	20	50	733	8	90				29.45	
09-12Z	80	13	-7.9	-6.7	-7.9										16	70	1059	20	70	1030	7	80				29.42	
12 hr Max/Min				-4.2	-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 inputing WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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

Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800		<9999	C	F	sn/sg/ic	fg/br	bs			Dir	Spd	Time	Dir	Spd	Time
70	9	-0.6	-7.9	-4.3	00-06L	0	0	0	-24.0	-11.0	0	0	0	0.00	50	17	302	50	20	733	8	40	00-06L	0	0	2
					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							29.49	29.42	29.46	7	0.07	7.3			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 26

Time	Winds			3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	110	10	-8.1	-7.5	-8.6										16	60	1320	20	50	1320	7	80				29.38
15-18Z	80	10	-9.1	-8.2	-9.4										16	100	1711	20	110	1712	7	120				29.36
18-21Z	80	16	-10.3	-9.1	-10.5										20	90	2010	24	100	2029	7	120				29.33
21-24Z	80	16	-10.8	-10.3	-10.9										20	90	2102	26	80	2100	7	80				29.32
12 hr Max/Min				-7.5	-10.9																					
00-03Z	80	14	-10.0	-9.2	-10.5										20	90	145	25	90	206	7	80				29.31
03-06Z	90	14	-10.6	-9.7	-10.9										20	70	443	26	70	447	7	120				29.31
06-09Z	90	19	-11.8	-10.9	-11.9										21	90	632	25	80	620	7	130				29.30
09-12Z	90	21	-12.7	-11.8	-12.8										22	90	1143	27	90	1133	7	70				29.29
12 hr Max/Min				-9.2	-12.8																					
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
87	15	-7.5	-12.8	-10.2	00-06L	0	0	0	-35.0	-31.0	0	0	0	0.00	90	22	1143	90	27	1133	7	70	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						29.38	29.29	29.33	Taken	Diff	Diff							
																8	0.09	5.3								

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 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	<1000	
12-15Z	80	20	-5.3	-1.9	-13.4										24	80	1407	27	80	1403	7	26			1	29.27
15-18Z	90	24	-12.4	-1.7	-12.8										25	90	1724	28	80	1749	8	26			3	29.26
18-21Z	90	16	-11.2	-11.0	-12.4										24	90	1815	28	80	1806	8	8			3	29.26
21-24Z	90	15	9.6	-9.4	-10.9									T	20	90	2220	25	80	2132	7	15			3	28.25
12 hr Max/Min				-1.7	-13.4																					
00-03Z	70	10	-9.6	-9.1	-10.3										16	100	16	23	90	2	6	120			1	29.24
03-06Z	120	10	-7.4	-7.3	-9.7										12	120	542	15	120	541	3					29.21
06-09Z		0	-5.5	-3.0	-8.5										11	120	559	15	120	557	2					29.20
09-12Z		0	-7.8	-4.5	-8.2										3	270	1127	4	270	1146	2					29.19
12 hr Max/Min				-3.0	-10.3																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000
89	12	-1.7	-13.4	-7.6	00-06L	0	0	0	-37.0	-35.0	5	0	0	0.00	90	25	1724	80	28	1749	5	8	00-06L	0	0	4
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	6
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	1
					18-24L	0	0	0							29.27	28.25	29.11	Taken	Diff	Diff			18-24L	0	0	0
															6	1.02	11.7									

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: 28

Time	Winds			3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	<3000	
12-15Z	310	3	-6.6	-6.3	-8.8										5	310	1440	7	310	1440	2				29.18		
15-18Z		0	-3.0	-3.0	-7.7										6	310	1558	8	330	1558	3				29.18		
18-21Z	80	3	-3.8	-1.3	-6.8										4	80	2046	5	90	2046	3				29.19		
21-24Z	110	4	-3.8	-1.3	-6.8										9	90	2317	10	90	2316	4				29.21		
12 hr Max/Min				-1.3	-8.8																						
00-03Z	90	17	-5.9	-3.6	-5.9										19	90	245	22	90	239	6	150			29.21		
03-06Z	60	18	-6.9	-4.6	-7.2										22	50	503	25	50	518	6	150			29.22		
06-09Z	80	11	-8.4	-6.9	-8.8										19	60	645	24	60	629	6	150			29.25		
09-12Z	70	17	-10.3	-8.5	-10.4										19	70	1137	24	60	1117	6	150			29.27		
12 hr Max/Min				-3.6	-10.4																						
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	
74	9	-1.3	-10.4	-5.9	00-06L	0	0	0	-29.0	-20.0	0	0	0	0.00	50	22	503	50	25	518	5	150	00-06L	0	0	0	
					06-12L	0	0	0						Altimeter			Total	Daily	Daily								
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp								
					18-24L	0	0	0						29.27	29.18	29.21	Taken	Diff	Diff								
																7	0.09	9.1									

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

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

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



McMurdo Station Daily Observation Worksheet

Date: 29

Time	Winds		3 hr Temp			Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	90	11	-11.0	-10.1	-11.7										18	70	1250	22	70	1401	3				29.30	
15-18Z	80	13	-7.2	-6.8	-11.2										15	80	1457	19	80	1550	3				29.31	
18-21Z	60	13	-7.1	-6.0	-7.2										14	70	2024	16	60	2050	2				29.31	
21-24Z	70	10	-4.6	-4.4	-8.3										15	50	2236	20	50	2104	2				29.34	
12 hr Max/Min				-4.4	-11.7																					
00-03Z	50	12	-5.5	-4.4	-6.6										16	60	250	19	60	219	3				29.35	
03-06Z	60	13	-7.7	-5.6	-8.7										18	70	332	23	60	334	5	240			29.37	
06-09Z	60	12	-7.3	-6.8	-8.7										15	60	803	19	70	802	5	240			29.39	
09-12Z	60	12	-7.7	-6.5	-8.5										14	60	1107	17	60	1106	5	240			29.39	
12 hr Max/Min				-4.4	-8.7																					

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.

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	66	12	-4.4	-11.7	-8.1	0	0	0	-31.0	-24.0	0	0	0	0.00	70	18	1250	60	23	334	4	240	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							29.39	29.30	29.35	8	0.09	7.3			18-24L	0	0	0



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	70	8	-7.2	-6.6	-7.4										14	60	1240	17	50	1257	5	240				29.39	
15-18Z	70	7	-5.2	-5.1	-7.2										12	100	1708	15	110	1714	1				29.38		
18-21Z	100	6	-2.6	-2.5	-5.2										12	110	1805	14	100	1805	0				29.37		
21-24Z	100	9	-2.9	-2.0	-3.6										11	50	2138	13	70	2349	0				29.36		
12 hr Max/Min			-2.0	-7.4																							
00-03Z	100	8	-3.2	-3.1	-5.4										15	60	101	16	70	132	0				29.35		
03-06Z	70	16	-6.9	-3.1	-6.8										15	70	550	18	70	546	0				29.32		
06-09Z	70	5	-4.6	-3.9	-7.0										16	70	629	19	60	601	0				29.32		
09-12Z	110	5	-6.9	-4.2	-7.2										10	90	1011	12	90	1010	0				29.31		
12 hr Max/Min			-3.1	-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.

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	
84	8	-2.0	-7.4	-4.7	00-06L	0	0	0	-23.0	-9.0	0	0	0	0.00	70	16	629	60	19	601	1	240	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.39	29.31	29.35	8	0.08	5.4			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	<1000	
12-15Z	100	7	-6.6	-6.0	-7.0										8	100	1450	11	90	1207	0				29.29	
15-18Z		0	-2.4	-2.3	-8.5										8	100	1536	10	100	1527	0				29.28	
18-21Z	80	14	-6.2	-1.4	-6.3										13	80	2045	16	80	2049	1				29.29	
21-24Z	60	11	-4.9	-4.2	-6.9										14	60	2250	19	60	2250	1				29.29	
12 hr Max/Min				-1.4	-8.5																					
00-03Z	40	13	-4.4	-3.6	-5.6										18	50	18	20	50	18	1				29.30	
03-06Z		5	-1.4	-1.0	-4.5										17	50	311	20	50	310	2				29.31	
06-09Z		0	-1.6	-0.1	-2.8										9	30	611	11	30	608	1				29.34	
09-12Z		0	-3.7	-0.8	-3.9										8	320	1012	11	320	1020	1				29.36	
12 hr Max/Min				-0.1	-5.6																					

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	Max Spd	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
67	6	-0.1	-8.5	-4.3	00-06L	0	0	0	-20.0	-4.0	0	0	0	0.00	50	18	18	50	20	18	1		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							29.36	29.28	29.31	4	0.08	8.4			18-24L	0	0	0



	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7		Day 8		Day 9		Day 10		Day 11		Day 12		Day 13		Day 14		Day 15	
12-15Z	40	5	110	15	60	13	70	11	80	7	110	4	0	330	4	320	6	6	90	11	70	6	70	16	60	10	320	3		
15-18Z	320	3	140	15	230	10	300	8	90	8	70	15	4	340	9	310	7	320	6	70	7	0	60	19	70	8	310	3		
18-21Z	110	9	130	12	270	6	300	5		4	70	13	300	5	340	9	310	6	0	90	10	0	60	16	80	7		0		
21-24Z	170	14	150	9	280	5	310	11		3	80	17	0	40	8		0	4	100	9	20	5	50	14	60	7		0		
00-03Z	140	18	260	8		5	250	16		3	70	9	0	30	8		0	40	9	110	9	110	6	60	9		0	190	3	
03-06Z	150	17	70	9	50	12	90	13		0	80	11	3		5	280	6	60	11	100	9	120	11	90	7		0	190	3	
06-09Z	130	13	70	7	50	15	90	16		4	80	9	320	4	260	3		4	90	7	90	8	80	9	50	12	30	6	0	
09-12Z	70	10	60	14	60	17	90	15	70	6	360	6	7		4	290	4		90	10	80	7	80	13	40	10	170	3	300	5
X*u / X*v	3.214	3.83	14.1	-5.13	11.26	6.5	10.34	3.762	6.894	1.216	3.759	-1.37		-2	3.464	-3.86	4.596		11	7E-16	5.638	2.052	15.04	5.472	8.66	5	-1.93	2.298		
X*u / X*v	-1.93	2.298	9.642	-11.5	-7.66	-6.43	-6.93	4	8	5E-16	14.1	5.13		-3.08	8.457	-5.36	4.5	-3.86	4.596	6.578	2.394		16.45	9.5	7.518	2.736	-2.3	1.928		
X*u / X*v	8.457	-3.08	9.193	-7.71	-6	-0	-4.33	2.5			12.22	4.446	-4.33	2.5	-3.08	8.457	-4.6	3.857		10	6E-16		13.86	8	6.894	1.216				
X*u / X*v	2.431	-13.8	4.5	-7.79	-4.92	0.868	-8.43	7.071			16.74	2.952			5.142	6.128			8.863	-1.56	1.71	4.698	10.72	8.999	6.062	3.5				
X*u / X*v	11.57	-13.8	-7.88	-1.39			-15	-5.47			8.457	3.078			4	6.928			5.785	6.894	8.457	-3.08	5.638	-2.05	7.794	4.5		-0.52	-2.95	
X*u / X*v	8.5	-14.7	8.457	3.078	9.193	7.713	13	8E-16			10.83	1.91			-5.91	1.042	9.526	5.5	8.863	-1.56	9.526	-5.5	7	4E-16				-0.52	-2.95	
X*u / X*v	9.959	-8.36	6.578	2.394	11.49	9.642	16	1E-15			8.863	1.563	-2.57	3.064	-2.95	-0.52		7	4E-16	8	5E-16	8.863	1.563	9.193	7.713	3	5.196			
X*u / X*v	9.397	3.42	12.12	7	14.72	8.5	15	9E-16	5.638	2.052	-0	6			-3.76	1.368		10	6E-16	6.894	1.216	12.8	2.257	6.428	7.66	0.521	-2.95	-4.33	2.5	
Sum u/Sum v	51.6	-44.2	56.71	-21	28.08	26.8	19.62	11.86	20.53	3.268	74.97	23.71	-6.9	5.564	-1.97	32.91	-23.5	15.36	28.45	16.99	68.66	-2.59	44.18	3.019	86.49	51.85	32.65	14.69	-9.6	0.818
Arctan	130.6		110.4		46.34		58.84		80.96		72.45		-51.1		-3.42		-56.8		59.16		92.16		86.09		59.06		65.77		-85.1	
Direction	130.6		110.4		46.34		58.84		80.96		72.45		308.9		356.6		303.2		59.16		92.16		86.09		59.06		65.77		274.9	
Magnitude	11.13		11		10		12		4		11		3		6		4		7		18:00		6		13		5		2	

Avg Wind

		sin	cos
1	X*u / X*v	8.450	-7.236
2	X*u / X*v	10.430	-3.871
3	X*u / X*v	7.506	7.163
4	X*u / X*v	10.162	6.144
5	X*u / X*v	4.321	0.688
6	X*u / X*v	10.011	3.167
7	X*u / X*v	-2.238	1.805
8	X*u / X*v	-0.373	6.239
9	X*u / X*v	-3.452	2.258
10	X*u / X*v	5.688	3.396
11	X*u / X*v	8.744	-0.330
12	X*u / X*v	6.235	0.426
13	X*u / X*v	11.043	6.620
14	X*u / X*v	4.674	2.103
15	X*u / X*v	-2.117	0.180
16	X*u / X*v	6.884	1.838
17	X*u / X*v	13.098	0.837
18	X*u / X*v	-0.614	-0.430
19	X*u / X*v	3.510	0.906
20	X*u / X*v	7.030	-4.552
21	X*u / X*v	6.833	2.774
22	X*u / X*v	-2.692	1.010
23	X*u / X*v	-3.259	3.625
24	X*u / X*v	-2.927	4.054
25	X*u / X*v	8.683	3.188
26	X*u / X*v	14.979	0.797
27	X*u / X*v	11.873	0.242
28	X*u / X*v	8.789	2.453
29	X*u / X*v	10.951	4.906
30	X*u / X*v	7.954	0.859
31	X*u / X*v	5.737	2.480
	Sum u/Sum v	175.911	53.738
	Arctan	73.013	
	Direction	73.0	
	Magnitude	7.709677	

Station:
NZCM

Monthly Climatology / Page 1

Month:
Jan 04

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	4.1	-1.3	1.4	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	1.00	0.00	0.00	1.00	0.00	11	131	24	150	29
2	0.6	-3.5	-1.5	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	4.50	0.00	0.00	4.50	0.00	11	110	20	140	29
3	5.4	-3.0	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	46	19	30	24
4	4.0	-5.0	-0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	59	21	90	25
5	3.7	-5.4	-0.9	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	6.00	0.00	0.00	6.00	0.00	4	81	19	90	24
6	0.8	-6.1	-2.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	72	20	50	23
7	4.8	-6.2	-0.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	309	9	320	12
8	2.8	-2.1	0.4	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	357	10	340	14	
9	3.7	-3.3	0.2	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	4	303	10	320	14	
10	-0.4	-4.0	-2.2	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	59	13	60	17	
11	-2.2	-5.0	-3.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	92	13	80	16	
12	2.0	-9.4	-3.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	1.00	6.00	1.50	1.00	9.50	0.00	9.00	0.00	9.00	0.00	6	86	19	90	23
13	-4.6	-15.9	-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	13.00	0.00	0.00	13.00	0.01	13	59	22	60	28	
14	-1.3	-7.4	-4.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	6.00	1.00	8.00	21.00	0.00	0.00	21.00	0.02	5	66	12	50	17
15	2.5	-4.1	-0.8	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	2	275	7	310	9	
16	3.0	-6.4	-1.7	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	7	75	16	90	21	
17	-4.4	-11.0	-7.7	0.00	6.00	2.00	0.00	8.00	1.00	6.00	2.00	0.00	9.00	1.00	6.00	2.00	0.00	9.00	6.00	9.00	0.00	15.00	0.00	13	86	20	70	24
18	-1.5	-10.6	-6.1	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	7.00	0.00	7.00	0.00	1	235	19	70	22
19	-0.3	-6.1	-3.2	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	3.00	0.00	0.00	3.00	0.00	4	76	10	30	13
20	0.8	-8.9	-4.1	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	8.00	0.00	0.00	8.00	0.00	8	123	21	140	26
21	-1.2	-10.0	-5.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	0.00	0.00	9.00	0.00	7	68	17	50	23
22	1.6	-5.2	-1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	291	9	320	12
23	3.4	-4.1	-0.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	318	15	330	23
24	2.4	-4.6	-1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	324	14	320	23
25	-0.6	-7.9	-4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	70	17	50	20	
26	-7.5	-12.8	-10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	87	22	90	27
27	-1.7	-13.4	-7.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	5.00	0.00	12	89	25	90	28
28	-1.3	-10.4	-5.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	74	22	50	25
29	-4.4	-11.7	-8.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	66	18	70	23
30	-2.0	-7.4	-4.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	84	16	70	19
31	-0.1	-8.5	-4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	67	18	50	20

Monthly Statistics

Temp (C)			Visibility (hrs)											WX and Duration				Pcpn	Avg Wind		Max Wind		Max	
Max	Min	Avg	< 1600				< 4800				< 9999				Total	Dir	Spd	Dir	Spd	Gust				
			00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L	sn/sg/ic	fg/br	bs	Total	Total	Dir	Spd	Dir	Spd	Gust
5.4	-15.9	-3.4	0.0	6.0	2.0	0.0	2.0	6.0	2.0	0.5	3.0	13.0	9.5	2.0	76.5	25.0	0.0	101.5	0.03	73	8	90	25	29

Total Hrs =or< 1600:	8.0	Total Hrs =or< 4800:	10.5	Total Hrs < 9999:	27.5
Total Days =or< 1600:	1	Total Days =or< 4800:	3	Total Days < 9999:	4
% Hrs =or< 1600:	0.0	% Hrs =or< 4800:	0.0	% Hrs < 9999:	0.0
% Days =or< 1600:	0.0	% Days =or< 4800:	0.1	% Days < 9999:	0.1

Total Hrs	sn/sg/ic:	76.5
	fg/br:	25.0
	fg:	0.0
Total Days	sn/sg/ic:	10
	fg/br:	3
	fg:	0

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

Station:
NZCM

Monthly Climatology / Page 2

Month:
Jan 04

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	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	6.00	9.00	29.20	29.14	29.16	8	0.06	5.4	-17.0		
2	7	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	6.00	5.00	23.00	29.16	29.13	29.14	8	0.03	4.1	-20.0	
3	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	29.11	29.13	7	0.05	8.4	-19.0		
4	5	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	29.25	29.12	29.17	8	0.13	9.0	-23.0			
5	6	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	5.00	0.00	0.00	11.00	29.31	29.28	29.29	3	0.03	9.1	-22.0		
6	4	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.31	29.28	29.29	8	0.03	6.9	-22.0			
7	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	5.00	5.00	29.30	29.28	29.28	2	0.02	11.0	-14.0			
8	3	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	2.00	29.31	29.29	29.30	6	0.02	4.9	-11.0		
9	6	9	0.00	0.00	0.00	0.00	0.00	4.00	2.00	0.00	2.00	8.00	5.00	6.00	3.00	2.00	16.00	29.33	29.30	29.31	5	0.03	7.0	-16.0			
10	7	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	1.00	0.00	13.00	29.41	29.34	29.38	5	0.07	3.6	-17.0			
11	8	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.43	29.31	29.39	8	0.12	2.8	-17.0			
12	3	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.27	29.15	29.19	6	0.12	11.4	-28.0			
13	6	10	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.50	0.50	2.00	6.00	6.00	14.50	29.21	29.16	29.18	8	0.05	11.3	-40.0			
14	8	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.00	1.00	16.00	29.17	29.15	29.16	6	0.02	6.1	-20.0			
15	5	70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.26	29.15	29.21	5	0.11	6.6	-9.0			
16	2	90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	29.26	29.32	6	0.10	9.4	-20.0			
17	2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	29.31	29.35	8	0.05	6.6	-26.0			
18	5	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	6.00	13.00	29.28	28.98	29.16	2	0.30	9.1	-31.0			
19	5	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	1.00	0.00	0.00	7.00	28.92	28.81	28.84	4	0.11	5.8	-15.0			
20	5	50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.27	28.89	29.07	7	0.38	9.7	-26.0			
21	7	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00	29.33	29.25	29.30	7	0.08	8.8	-28.0			
22	5	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	4.00	0.00	0.00	9.50	29.23	29.17	29.19	2	0.06	6.8	-12.0			
23	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.33	29.21	29.29	5	0.12	7.5	-17.0			
24	4	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	29.43	29.34	29.38	6	0.09	7.0	-17.0			
25	8	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	29.49	29.42	29.46	7	0.07	7.3	-24.0			
26	7	70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.38	29.29	29.33	8	0.09	5.3	-35.0			
27	5	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	5.50	1.00	0.00	10.50	29.27	28.25	29.11	6	1.02	11.7	-37.0			
28	5	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.27	29.18	29.21	7	0.09	9.1	-29.0			
29	4	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.39	29.30	29.35	8	0.09	7.3	-31.0			
30	1	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.39	29.31	29.35	8	0.08	5.4	-23.0			
31	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	29.28	29.31	4	0.08	8.4	-20.0			

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)															Total Obs Taken	Min Wind Chill			
	< 500					< 1000					< 3000							Altimeter		
	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total			Max	Min	Avg
5	0.0	0.0	0.0	0.0	4.5	2.0	0.0	2.0	48.0	40.5	32.0	38.0	29.49	28.25	29.25	188	-40.0			
Total Hrs =or< 500:					0.0	Total Hrs =or< 1000:					8.5	Total Hrs =or< 3000:					158.5	Total Days 31		
Total Days =or< 500:					0	Total Days =or< 1000:					2	Total Days =or< 3000:					16			
% Hrs =or< 500:					0.0	% Hrs =or< 1000:					0.0	% Hrs =or< 3000:					0.2			
% Days =or< 500:					0.0	% Days =or< 1000:					0.1	% Days =or< 3000:					0.5			