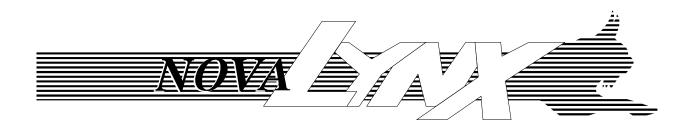
NOVALYNX CORPORATION

FOR BAROMETRIC PRESSURE SENSORS



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FOR BAROMETRIC PRESSURE SENSORS

INTRODUCTION

Weather stations located at elevations above sea level often need adjustment to the barometer so that sea level pressure is the indicated value. Sometimes the information necessary making for the adjustment is unavailable or is difficult to obtain. This document provides tables that give the barometer corrections for various elevations. A brief discussion of the concept of pressure variations with elevation is also included.

USING THE TABLES

Barometer corrections to sea level pressure are most often associated with airports, television reports, or National Weather Service offices. These organizations give sea level reduced pressure readings. Some large organizations may have networks of weather stations spread over a large region to measure lateral variations in pressure such as those produced by weather fronts. It is not necessary for a barometer to be corrected to sea level in order for it to operate. The correction adjustment is simply a preference for the way that pressure is reported.

Barometric pressure corrections can be obtained by contacting a local airport or National Weather Service weather station operator and requesting the current local reading. The barometer in question is then adjusted so that its reading matches that obtained from the airport or NWS. Some error will be introduced using this method of adjustment, increasing with distance since lateral pressure variations may increase with the horizontal distance from the reporting weather station.

The tables provided with this document are based upon the United States Standard Atmosphere and can be used in situations where no reporting stations exist within the immediate area. The tables give the correction factor that is added to the barometric pressure reading for a given station elevation. The correction is given both in inches of mercury (inHg) and in millibars (mb). Values are indicated for elevations expressed in feet above sea level.

For any station elevation, add the "deviation from zero" figure to the barometer's current barometric pressure reading.

As an example, consider a barometer located at an elevation of 4550 feet with a current reading of 25.07 inHg. Using the tables, a value of 4.60 inHg should be added to the reading. The barometer should be adjusted until it produces a reading of 29.67 inHg to report the equivalent sea level pressure.

The "standard pressure" figures indicate the calculated barometric pressure at each elevation based upon the United States Standard Atmosphere. Actual pressures typically vary by up to 1 inHg (34 mb), depending upon weather conditions, time of year, and time of day. The variation is seldom more than 2 inHg (68 mb) from the values given, even in a severe storm. These figures provide a method for checking a barometer's operation. A barometer that is located at an elevation of 1950 feet and is reporting a pressure of 860 mb has a calibration problem or is sitting in the eye of a super hurricane!

Feet and mb

Station Elevation (feet)	Standard Pressure (mb)	Deviation from zero (mb)		Station Elevation (feet)	Standard Pressure (mb)	Deviation from zero (mb)
0	1013.2	0.0	_	1950	943.8	69.4
50	1011.4	1.8		2000	942.1	71.1
100	1009.6	3.7		2050	940.4	72.9
150	1007.8	5.5		2100	938.6	74.6
200	1005.9	7.3		2150	936.9	76.3
250	1004.1	9.1		2200	935.2	78.0
300	1002.3	10.9		2250	933.5	79.8
350	1000.5	12.8		2300	931.8	81.5
400	998.7	14.6		2350	930.1	83.2
450	996.9	16.4		2400	928.4	84.9
500	995.1	18.2		2450	926.7	86.6
550	993.3	20.0		2500	925.0	88.3
600	991.5	21.8		2550	923.3	90.0
650	989.7	23.6		2600	921.6	91.7
700	987.9	25.4		2650	919.9	93.4
750	986.1	27.2		2700	918.2	95.1
800	984.3	29.0		2750	916.5	96.8
850	982.5	30.8		2800	914.8	98.4
900	980.7	32.5		2850	913.1	100.1
950	978.9	34.3		2900	911.4	101.8
1000	977.1	36.1		2950	909.7	103.5
1050	975.4	37.9		3000	908.1	105.2
1100	973.6	39.7		3050	906.4	106.8
1150	971.8	41.4		3100	904.7	108.5
1200	970.0	43.2		3150	903.1	110.2
1250	968.3	45.0		3200	901.4	111.9
1300	966.5	46.7		3250	899.7	113.5
1350	964.8	48.5		3300	898.1	115.2
1400	963.0	50.2		3350	896.4	116.8
1450	961.2	52.0		3400	894.7	118.5
1500	959.5 057.7	53.8		3450	893.1	120.2
1550	957.7	55.5 57.2		3500	891.4	121.8
1600	956.0 054.2	57.3		3550 3600	889.8	123.5
1650 1700	954.2 953.5	59.0 60.7			888.1	125.1 126.8
1750	952.5 950.8	62.5		3650 3700	886.5 884.8	128.4
1800	950.6 949.0	62.5 64.2		3700 3750	883.2	130.0
1850	949.0	66.0		3800	881.6	130.0
1900	947.3 945.6	67.7		3850	879.9	133.3
1900	340.U	01.1		3030	013.3	100.0

Feet and mb

Station Elevation (feet)	Standard Pressure (mb)	Deviation from zero (mb)		Station Elevation (feet)	Standard Pressure (mb)	Deviation from zero (mb)
3900	878.3	134.9	_	5850	816.5	196.7
3950	876.7	136.6		5900	815.0	198.3
4000	875.0	138.2		5950	813.4	199.8
4050	873.4	139.8		6000	811.9	201.3
4100	871.8	141.4		6050	810.4	202.9
4150	870.2	143.1		6100	808.9	204.4
4200	868.6	144.7		6150	807.3	205.9
4250	866.9	146.3		6200	805.8	207.4
4300	865.3	147.9		6250	804.3	209.0
4350	863.7	149.5		6300	802.8	210.5
4400	862.1	151.1		6350	801.3	212.0
4450	860.5	152.7		6400	799.7	213.5
4500	858.9	154.3		6450	798.2	215.0
4550	857.3	155.9		6500	796.7	216.5
4600	855.7	157.5		6550	795.2	218.0
4650	854.1	159.1		6600	793.7	219.5
4700	852.5	160.7		6650	792.2	221.0
4750	850.9	162.3		6700	790.7	222.5
4800	849.3	163.9		6750	789.2	224.0
4850	847.7	165.5		6800	787.7	225.5
4900	846.2	167.1		6850	786.2	227.0
4950	844.6	168.7		6900	784.7	228.5
5000	843.0	170.2		6950	783.2	230.0
5050	841.4	171.8		7000	781.8	231.5
5100	839.8	173.4		7050	780.3	233.0
5150	838.3	175.0		7100	778.8	234.4
5200	836.7	176.5		7150	777.3	235.9
5250	835.1	178.1		7200	775.8	237.4
5300	833.6	179.7		7250	774.4	238.9
5350	832.0	181.2				
5400	830.5	182.8				
5450	828.9	184.3				
5500	827.3	185.9				
5550	825.8	187.5				
5600	824.2	189.0				
5650	822.7	190.6				
5700	821.1	192.1				
5750	819.6	193.6				
5800	818.1	195.2				

Feet and inHg

0 29.92 0.00 1950 27.87 2.05 50 29.87 0.05 2000 27.82 2.10 100 29.81 0.11 2050 27.77 2.15 150 29.76 0.16 2100 27.72 2.20 200 29.71 0.22 2150 27.67 2.25 250 29.65 0.27 2200 27.62 2.30 300 29.60 0.32 2250 27.57 2.36 350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.41 2.51 500 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.21 2.71 700 29.17 0.75 </th <th>Station Elevation (feet)</th> <th>Standard Pressure (inHg)</th> <th>Deviation from zero (inHg)</th> <th></th> <th>Station Elevation (feet)</th> <th>Standard Pressure (inHg)</th> <th>Deviation from zero (inHg)</th>	Station Elevation (feet)	Standard Pressure (inHg)	Deviation from zero (inHg)		Station Elevation (feet)	Standard Pressure (inHg)	Deviation from zero (inHg)
100 29.81 0.11 2050 27.77 2.15 150 29.76 0.16 2100 27.72 2.20 200 29.71 0.22 2150 27.67 2.25 250 29.65 0.27 2200 27.52 2.30 300 29.60 0.32 2250 27.57 2.36 350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.31 2.51 500 29.38 0.54 2450 27.36 2.56 550 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.11 2.71 700 29.17 0.75 2650 27.16 2.76 750 29.12 0.8	0	29.92	0.00	-	1950	27.87	2.05
150 29.76 0.16 2100 27.72 2.20 200 29.71 0.22 2150 27.67 2.25 250 29.65 0.27 2200 27.62 2.30 300 29.60 0.32 2250 27.57 2.36 350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.41 2.51 500 29.38 0.54 2450 27.36 2.56 550 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.11 2.71 700 29.17 0.75 2650 27.16 2.76 750 29.12 0.80 2700 27.11 2.81 800 29.07 0.8	50	29.87	0.05		2000	27.82	2.10
200 29.71 0.22 2150 27.67 2.25 250 29.65 0.27 2200 27.62 2.30 300 29.60 0.32 2250 27.57 2.36 350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.41 2.51 500 29.38 0.54 2450 27.36 2.56 550 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.21 2.71 700 29.17 0.75 2650 27.16 2.76 750 29.12 0.80 2700 27.11 2.81 800 29.07 0.86 2750 27.06 2.86 850 29.01 0.9	100	29.81	0.11		2050	27.77	2.15
250 29.65 0.27 2200 27.62 2.30 300 29.60 0.32 2250 27.57 2.36 350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.41 2.51 500 29.38 0.54 2450 27.36 2.56 550 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.21 2.71 700 29.17 0.75 2650 27.16 2.76 750 29.12 0.80 2700 27.11 2.81 800 29.07 0.86 2750 27.06 2.86 850 29.01 0.91 2800 27.01 2.91 900 28.96 0.9	150	29.76	0.16		2100	27.72	2.20
300 29.60 0.32 2250 27.57 2.36 350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.41 2.51 500 29.38 0.54 2450 27.36 2.56 550 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.21 27.1 700 29.17 0.75 2650 27.16 2.76 750 29.12 0.80 2700 27.11 2.81 800 29.07 0.86 2750 27.06 2.86 850 29.01 0.91 2800 27.01 2.91 900 28.96 0.96 2850 26.96 2.96 950 28.91 1.0	200	29.71	0.22		2150	27.67	2.25
350 29.54 0.38 2300 27.52 2.41 400 29.49 0.43 2350 27.46 2.46 450 29.44 0.48 2400 27.41 2.51 500 29.38 0.54 2450 27.36 2.56 550 29.33 0.59 2500 27.31 2.61 600 29.28 0.64 2550 27.26 2.66 650 29.22 0.70 2600 27.21 2.71 700 29.17 0.75 2650 27.16 2.76 750 29.12 0.80 2700 27.11 2.81 800 29.07 0.86 2750 27.06 2.86 850 29.01 0.91 2800 27.01 2.91 900 28.96 0.96 2850 26.96 2.96 950 28.91 1.01 2900 26.91 3.01 1000 28.86 1.							
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800 29.07 0.86 2750 27.06 2.86 850 29.01 0.91 2800 27.01 2.91 900 28.96 0.96 2850 26.96 2.96 950 28.91 1.01 2900 26.91 3.01 1000 28.86 1.07 2950 26.86 3.06 1050 28.80 1.12 3000 26.82 3.11 1100 28.75 1.17 3050 26.77 3.16 1150 28.70 1.22 3100 26.72 3.20 1200 28.65 1.28 3150 26.67 3.25 1250 28.59 1.33 3200 26.62 3.30 1300 28.54 1.38 3250 26.57 3.35 1350 28.49 1.43 3300 26.52 3.40 1400 28.44 1.48 3350 26.47 3.45 1450 28.39							
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1850 27.97 1.95 3800 26.03 3.89	1750	28.08	1.85				3.79
	1800	28.02	1.90		3750	26.08	3.84
1900 27.92 2.00 3850 25.98 3.94	1850	27.97	1.95		3800	26.03	3.89
	1900	27.92	2.00		3850	25.98	3.94

Feet and inHg

Station Elevation (feet)	Standard Pressure (inHg)	Deviation from zero (inHg)	Station Elevation (feet)	Standard Pressure (inHg)	Deviation from zero (inHg)
3900	25.94	3.98	5850	24.11	5.81
3950	25.89	4.03	5900	24.07	5.85
4000	25.84	4.08	5950	24.02	5.90
4050	25.79	4.13	6000	23.98	5.95
4100	25.74	4.18	6050	23.93	5.99
4150	25.70	4.22	6100	23.89	6.04
4200	25.65	4.27	6150	23.84	6.08
4250	25.60	4.32	6200	23.80	6.13
4300	25.55	4.37	6250	23.75	6.17
4350	25.51	4.42	6300	23.71	6.22
4400	25.46	4.46	6350	23.66	6.26
4450	25.41	4.51	6400	23.62	6.30
4500	25.36	4.56	6450	23.57	6.35
4550	25.32	4.60	6500	23.53	6.39
4600	25.27	4.65	6550	23.48	6.44
4650	25.22	4.70	6600	23.44	6.48
4700	25.17	4.75	6650	23.39	6.53
4750	25.13	4.79	6700	23.35	6.57
4800	25.08	4.84	6750	23.31	6.62
4850	25.03	4.89	6800	23.26	6.66
4900	24.99	4.93	6850	23.22	6.70
4950	24.94	4.98	6900	23.17	6.75
5000	24.89	5.03	6950	23.13	6.79
5050	24.85	5.07	7000	23.09	6.84
5100	24.80	5.12	7050	23.04	6.88
5150	24.75	5.17	7100	23.00	6.92
5200	24.71	5.21	7150	22.95	6.97
5250	24.66	5.26	7200	22.91	7.01
5300	24.62	5.31	7250	22.87	7.05
5350	24.57	5.35			
5400	24.52	5.40			
5450	24.48	5.44			
5500	24.43	5.49			
5550	24.39	5.54			
5600	24.34	5.58			
5650	24.29	5.63			
5700	24.25	5.67			
5750	24.20	5.72			
5800	24.16	5.76			