

## Electronic Station Data Definitions



FIELD	NAME/DEFINITION	NOTES	UNITS
CODE	Station Code		
DATE TIME	Date and time of observation		
OBS TYPE	Observation Type	ST - "Standard Observations" collected at 0600 and 1800, RAW - hourly observations collected every hour,	
MAX TEMP	Maximum temperature since the last standard observation		Degrees C
PRES TEMP	Present temperature at the time of the observation		Degrees C
MIN TEMP	Minimum temperature since the last standard observation		Degrees C
RH	Relative Humidity		Percent
DEW POINT	Dew Point Temperature	Calculated from the Present Temperature and Relative Humidity	Degrees C
HRLY PRCP	Hourly Precipitation - change in gauge total since the last hours observation		mm
NEW PRCP	New Precipitation - change in gauge total since the last standard observation		mm
GAUGE TOTAL	The total accumulation of water in the standpipe gauge		mm
NEW SNOW	An estimate of the accumulated snowfall since the last standard observation	Based on the change in the depth of the snowpack with adjustments made to take settling of the snow into account based on temperatures	cm
SNOW PACK	Height Of Snow at the time of the observation	Total depth of snow on the ground, measured using an ultrasonic sensor	cm
PRCP DET RATIO	The proportion of the last hour during which precipitation was detected at the site	Optical sensor returns a yes or no at the end of each 95 second time interval	
WND SPD 1	Average Vector Wind Speed over the last hour - Sensor 1		km/hr
MAX GUST 1	Maximum Wind Speeds in the last hour - Sensor 1		km/hr
WND DIR 1	Average Vector Direction in the last hour - Sensor 1		Degrees N
STD DEV 1	Standard Deviation of the Wind Vector over the last hour - Sensor 1		Degrees
WND SPD 2	Average Vector Wind Speed over the last hour - Sensor 2		km/hr

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MAX GUST 2	Maximum Wind Speeds in the last hour - Sensor 2		km/hr
WND DIR 2	Average Vector Direction in the last hour - Sensor 2		Degrees N
STD DEV 2	Standard Deviation of the Wind Vector over the last hour - Sensor 2		
ATM PRESS	Atmospheric Pressure	The amount of pressure exerted by the column of air over a weather station as measured during the weather observation.	mmHg

## Manual Station Data Definitions



FIELD	NAME/DEFINITION	NOTES	UNITS
CODE	Station Code		
DATE TIME	Date and time of observation		
OBS TYPE	Observation Type	ST - Standard Observations are taken twice daily. In the morning between 0530 and 0730 hrs and in the afternoon between 1530 and 1800 hrs. INT - Interval observations are taken upon request if weather conditions warrant extra readings.	
SKY COND	Sky Condition	CL = clear (no clouds) SC = scattered (less than 50% cloud covered) BR = broken (more than 50% cloud covered but not overcast) OV = overcast OB = obscured (station is in the cloud) CL/H = clear with haze SC/H = scattered with haze BR/H = broken with haze	
PRCP TYPE	Precipitation Type	NIL = none * = snow R = rain */R = mixed rain and snow FR = freezing rain	
PRCP RATE	Precipitation Rate	<b>Precip. Rate for Snow:</b> VL = very light (less than 1 cm / hour) L = light (1 cm / hour) M = moderate (2 cm / hour) H = heavy (3 or more cm / hour)  <b>Precip. Rate for Rain:</b> VL = very light (less than 1 mm / hour) L = light (1 - 2 mm / hour) M = moderate (3 - 7 mm / hour) H = heavy (8 or more mm / hour)	Snow in cm / hour Rain in mm / hour
MAX TEMP	Maximum temperature since the last standard observation		Degrees C
PRES TEMP	Present temperature at the time of the observation		Degrees C
MIN TEMP	Minimum temperature since the last standard observation		Degrees C

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FIELD	NAME/DEFINITION	NOTES	UNITS
THERM TRND	Thermograph Trend	RR = rising rapidly (greater than 5 degrees C increase in last 3 hours) RS = rising slowly (between 1 and 5 degrees C increase in last 3 hours) ST = steady (less than 1 degree C change in last 3 hours) FS = falling slowly (between 1 and 5 degrees C decrease in last 3 hours) FR = falling rapidly (greater than 5 degrees C decrease in last 3 hours)	
RH	Relative Humidity		Percent
NEW SNOW	Accumulated newly fallen snow since the last standard observation	Measured on the New Snow board, cleared at each standard observation	cm
INT SNOW	Interval Snow - accumulated newly fallen snow since the last observation	Measured on the Interval Snow board, cleared at each observation	cm
STORM SNOW	The accumulation of snow since the beginning of the current storm	Measured on the Storm Snow board, cleared when the observer feels that the storm is over	cm
STORM CLEARED	Flag (Y or N) indicating whether the Storm Snow board was cleared or not		
SNOW PACK	Current total depth of snow on the ground		cm
SURF COND	Condition of the snow surface	New = new snow SH = surface hoar IC = ice crust WE = wind effects Old = old snow SI = slush Oth = Other	
PRCP GAUGE	Precipitation Gauge - The current total depth of liquid contained in a precipitation gauge, regardless of the form of precipitation		mm
OLD GAUGE	Precipitation Gauge reading from the previous standard observation		mm
NEW PRCP	New Precipitation - the change in depth of liquid contained in a precipitation gauge since the last standard observation		mm
FOOT PEN	Foot Penetration - depth of penetration into undisturbed snow by an overserver placing whole weight onto one foot	Measured to the nearest cm if penetration between 0 and 5 cm, otherwise rounded to the nearest 5 cm	cm

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WND SPD EST	Wind Speed Estimated	C = calm L = light (1 to 25 km / hour) M = moderate (26 to 40 km / hour) S = strong (41 to 60 km / hour) E = extreme (more than 60 km / hour)	
WND SPD MEAS	Wind Speed Measured, using an anemometer		km/hr
WIND DIR	Wind direction (one of 8 cardinal directions)	N = north, NE = northeast, E = east, SE = southeast, S = south, SW = southwest, W = west, NW = northwest	
ATM PRESSURE	Atmospheric Pressure	From a barograph, in mm of Mercury	mm Hg
PRESS TREND	Trend of atmospheric pressure over the last 3 hours	RR = rising rapidly (greater than 5 mm Hg increase in last 3 hours) RS = rising slowly (between 1 and 5 mm Hg increase in last 3 hours) ST = steady (less than 1 mm Hg change in last 3 hours) FS = falling slowly (between 1 and 5 mm Hg decrease in last 3 hours) FR = falling rapidly (greater than 5 mm Hg decrease in last 3 hours)	
AVAL OBS	Avalanches observed?	Y or N	
AVAL ON RD	Avalanches observed on the road?	Y or N	
COMMENTS	Comments entered by the weather observer		