

How to Read the Monthly Meteorological Data Files

Each *.met file contains one month of data with a name that identifies the month and year. Each meteorological parameter is immediately followed by a quality flag. With the exception of room temperatures, these data have been reviewed in accordance with our procedures and appropriate data have been substituted when necessary (generally from the backup tower). If the quality flag value is "0", the data are good. A quality value of "1" means that data from a secondary source were substituted but that the data are reliable. A value of "2" identifies data not suitable for use.

Data descriptors:

PT.SP.L = Primary Tower wind SPeed Lower level (10 meter) sensor in statute miles per hour
PT.SP.U = Primary Tower wind SPeed Upper level (60 meter) sensor in statute miles per hour
BT.SP.L = Backup Tower wind SPeed Lower level (10 meter) sensor in statute miles per hour
PT.DR.L = Primary Tower wind DiRction Lower level (10 meter)
PT.DR.U = Primary Tower wind DiRction Upper level (60 meter)
BT.DR.L = Backup Tower wind DiRction Lower level (10 meter)
PT.AT.L = Primary Tower Ambient Temperature Lower level (10 meter) in ° F
PT.AT.U = Primary Tower Ambient Temperature Upper level (60 meter) in ° F
PT.DP.L = Primary Tower Dew Point temperature Lower level (~3 meter) in ° F
BT.AT.L = Backup Tower Ambient Temperature Lower level (10 meter) in ° F
PT.DT.U-L = Primary Tower Delta Temperature Upper minus Lower level (60 to 10 meter) in ° F
PT.RT.L = Primary Tower Room Temperature in ° F (not reviewed consistently)
BT.RT.L = Backup Tower Room Temperature in ° F (not reviewed consistently)
PT.SR = Primary Tower Solar Radiation (~1 meter) in Langley
PT.RN = Primary Tower RaiN (~1 meter) in inches

The columns of data often have headings. The following describes some of these headings:

SPD = speed
DIR = direction
TEMP = temperature
CODE = quality code, 0. means good to use
STD = standard deviation of the hourly average
MIN = minimum value occurring during the hour
MAX = maximum value occurring during the hour

The meteorological tower communications hardware, computers/software, wind speed, wind direction, and delta temperature (primary tower only) instruments were replaced in May to August of 2005 as described in "UFSAR Section 2.3 Year 2006.pdf". An error in the delta temperature calibration procedure invalidated the delta temperature measurements from May 2005 through February 2006. Delta temperature data beginning in March 2006 are again reliable.

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