San Clemente Island Climatic Data Documentation

Climatic data for San Clemente Island is generated by 5 different weather stations (Eel Point, Hoeppel, Old Nursery, OP1 and OP3) placed throughout the Island. Due to system malfunction and/or maintenance issues, data for all years is not available for all stations. Additionally, climatic data for specific stations and years may be incomplete or unavailable. If data in the spreadsheet is unavailable or in error, values will be substituted with either of the following numbers: -6999 or -999

Climatic Data Field Descriptions

*Please note that the formatting (fields) of the spreadsheets between the different stations and years varies. The following list is a complete compilation of all possible fields. Therefore, each spreadsheet will only contain a subset of the following fields.

FIELD	DESCRIPTION
Air Temp 1 Max F	Maximum air temperature of first sensor (5.5 feet off the ground).
Air Temp 1 Min F	Minimum air temperature of first sensor (5.5 feet off the ground).
Air Temp 2 Max F	Maximum air temperature of second sensor (1 foot off the ground).
Air Temp 2 Min F	Minimum air temperature of second sensor (1 foot off the ground).
Air Temp Avg F	Average air temperature in Fahrenheit
Air Temp Avg F_1	Average air temperature in Fahrenheit of first sensor (5.5 feet off the ground).
Air Temp Avg F_2	Average air temperature in Fahrenheit of second sensor (1 foot off the ground).
Air Temp Max F	Maximum air temperature in Fahrenheit
Air Temp Min F	Minimum air temperature in Fahrenheit
Array ID	Data collection unit ID #
Avg RH %_1	Average percent relative humidity of first sensor (5.5 feet off the ground).
Avg RH %_2	Average percent relative humidity of second sensor (1 foot off the ground).
Bar Pres mb	Barometric pressure in millibars
Batt Voltage Min	Minimum battery voltage of data collection unit
Date	Calendar Date
Day	Julian Date
Dew Point Temp F Avg	Average dew point temperature in Fahrenheit
Dew Point Temp F Max	Maximum dew point temperature in Fahrenheit
Dew Point Temp F Min	Minimum dew point temperature in Fahrenheit
Dir at Max	Wind direction at maximum speed in degrees. 0/360 = North 90 = east, 180 = south, 270 = west
Fuel Moisture Avg %	Average percent fuel moisture

Fuel Temp F Avg	Average fuel temperature in Fahrenheit
Hour/Minute	Hour and minute of data collection
Leaf Wet Time %_1	Leaf wetness values for sensor # 1. Need to multiply by 100 to obtain percent value. Provides percent of time wet during an hour. A 1 is 100% of the time in an hour that the sensor was completely wet. A 0 means the leaf was completely dry.
Leaf Wet Time %_2	Leaf wetness values for sensor # 2. Need to multiply by 100 to obtain percent value. Provides percent of time wet during an hour. A 1 is 100% of the time in an hour that the sensor was completely wet. A 0 means the leaf was completely dry.
Max Wind Spd m/s	Maximum wind speed in meters per second
Month	Month of data collection
Period Average microseconds	Average leaf wetness voltage over a 1 hour period
Rain Total Inches	Total inches of rain
Rel Hum Avg %	Average percent relative humidity
Rs Avg	Voltage Resistance Average for soil moisture
Soil Potent Bars	Soil moisture sensor measured in BARS. 0 Bars = Saturated Soil and >2 Bars = Dry Soil. -6999 sensor overranges when soil has been dry for a while.
Soil Res-1	Soil moisture of sensor # 1. Data not available due to sensor malfunction.
Soil Res-2	Soil moisture of sensor # 2. Data not available due to sensor malfunction.
Solar Radiation W/m2 Avg	Solar radiation values in watts per square meter (W/m^2)
Time of Max	Time of maximum wind speed
Total Solar Radiation MJ	Total solar radiation values in megajoules
Watt Poten Avg	Potential solar energy measured in Watts
Wind Dir. Standard Deviation	Wind direction – standard deviation
Wind Direction Avg	Average wind direction
Wind Gust Direction	Wind gust direction in degrees
Wind Gust MPH	Wind gust value in Miles Per Hour
Wind Speed MPH Avg	Average wind speed in Miles Per Hour
Year	Year data was collected

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