

Description of micrometeorology data for Lost Creek Tower in lcreekyyyy_met.txt

Missing or invalid data is reported as -999. Time is recorded at the beginning of average period. The average interval is 30 minutes.

Column	Name	Description	Unit
1	Year	Year	Year
2	Month	Month	Month
3	Day	Day	Day
4	LST	Local Standard Time	Hour
5	Jday	Julian day	Day
6	Fjday	Fractional Julian day	Day
7	CO2_1.2m	Concentration of CO2 at 1.2m above surface	ppm
8	CO2_1.8m	Concentration of CO2 at 1.8m	ppm
9	CO2_3.0m	Concentration of CO2 at 3.0m	ppm
10	CO2_5.5m	Concentration of CO2 at 5.5m	ppm
11	CO2_10.2	Concentration of CO2 at 10.2m	ppm
12	Wspeed	Wind speed at 10.2m	m/s
13	Wdir	Wind direction at 10.2m	Deg
14	Ta_10.2m	Air temperature at 10.2m	°C
15	Ta_5.5m	Air temperature at 5.5m	°C
16	Ta_3.0m	Air temperature at 3.0m	°C

17	Ta_1.8m	Air temperature at 1.8m	°C
18	Ta_1.2m	Air temperature at 1.2m	°C
19	T_tree_N	Tree temperature, north side	°C
20	T_tree_S	Tree temperature, south side	°C
21	Mr_10.2m	Water vapor Mixing ratio at 10.2m	g/kg
22	Ts_0	soil temperature, soil surface	°C
23	Ts_5cm	soil temperature at 5 cm below soil surface	°C
24	Ts_10cm	soil temperature at 10cm below soil surface	°C
25	Ts_20cm	Soil temperature at 20cm below soil surface	°C
26	Ts_50cm	Soil temperature at 50cm below soil surface	°C
27	Ta_100cm	Soil temperature at 100cm below soil surface	°C
28	H2O_depth	Water depth, above soil surface	Cm
29	P	Ambient air pressure	Kpa
30	Precipitation	Precipitation in 0.5 hr	mm
31	Solar_in	Incoming solar radiation	W m ⁻²
32	Solar_ref	Reflected solar radiation	W m ⁻²
33	par	Photosynthetic Active radiation at 10.2m	μmol/m ² /s
34	Net_rad	Net radiation	W m ⁻²
35	G_75mm	Soil heat flux at 75 mm below surface	W m ⁻²

36	Base_t *	air temperature at tower base, 1.8 m , available after 3/15/2004	C
37	Base_rh *	Relative humidity at tower base, 1.8m, available after 3/15/2004	%

* CSI CS500 T/RH sensor

Other temperatures are measured using a type T thermocouple