**Ceilometer**

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| --- | --- | --- | --- |
|  | Header | Units | Description |
| 1 | date | [yyyy-mm-dd] | yyyy' is the year, mm is the month, dd is the day |
| 2 | time | [hh:mm] | hh:mm' is the middle of the 10 or 30 minute averaging period, e.g. 00:00-00:30 -> 00:15 |
| 3 | decimal\_day | [#] | decimal day of year |
| 4 | BL\_Height1 | [m] | First boundary layer height (-999 if no candidate) |
| 5 | BL\_Index1 | [#] | Quality index of the First boundary layer height |
| 6 | BL\_Height2 | [m] | Second boundary layer height (-999 if no candidate) |
| 7 | BL\_Index2 | [#] | Quality index of the second boundary layer height |
| 8 | BL\_Height3 | [m] | Third boundary layer height (-999 if no candidate) |
| 9 | BL\_Index3 | [#] | Quality index of the third boundary layer height |
| 10 | Cloud\_Status | [#] | Cloud detection status |
| 11 | Cloud\_1 | [m] | First cloud base |
| 12 | Cloud\_2 | [m] | Second cloud base |
| 13 | Cloud\_3 | [m] | Third cloud base |

**EC2 Tower**

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|  | Header | Units | Description |
| 1 | date | [yyyy-mm-dd] | yyyy' is the year, mm is the month, dd is the day |
| 2 | time | [hh:mm] | hh:mm' is the middle of the 10 or 30 minute averaging period, e.g. 00:00-00:30 -> 00:15 |
| 3 | decimal\_day | [#] | decimal day of year |
| 4 | NetSW\_Avg | W/m^2 | Net shortwave radiation |
| 5 | NetLW\_Avg | W/m^2 | Net longwave radiation |
| 6 | NetRad\_Avg | W/m^2 | Net radiation |
| 7 | AirTC\_Avg | Deg C | Air temperature at 3.14 m |
| 8 | RH\_Avg | % | RH at 3.14 m |
| 9 | AirTC\_2\_Avg | Deg C | Air temperature at 1.6 m |
| 10 | RH\_2\_Avg | % | RH at 1.6 m |
| 11 | T109\_C\_1\_Avg | Deg C | Soil temperature at 2.5 cm |
| 12 | T109\_C\_2\_Avg | Deg C | Soil temperature at 5.0 cm |
| 13 | VW\_Avg |  | Soil water content at 2.5 cm |
| 14 | shf\_3\_Avg | W/m^2 | Soil heat flux at 5 cm |
| 15 | shf\_4\_Avg | W/m^2 | Soil heat flux at 5 cm |