

# Meta-data

## Quality control and process flags

- **Good data: flag divisible by 10**

- **QA/QC flags:**

0: Good data

1: No data

2: L2 RangeCheck

3: CSAT Diagnostic

4: LI7500 Diagnostic

5: L2 DiurnalCheck

6: exclude dates

7: exclude hours

8: albedo  $F_{sd} < \text{threshold}$

9: albedo time flag

- **Corrections flags:**

10: Linear

[11: Rotation]

[12: Massman]

13: Virtual  $F_H$

[14: WPL]

15: TafromTv

16: L3 RangeCheck

17: L3 DiurnalCheck

18:  $u^*$  filter

19: Gap co-ordination

- **Gap-filling flags:**

30: Flux gap filled by ANN    31: Flux gap not filled by ANN

40: Met gap filled from climatology

50: Gap filled from ratios

60: Gap filled by interpolation

70: Gap filled by replacement

80:  $u^*$  from  $F_H$

81:  $u^*$  not from  $F_H$

82: L4 RangeCheck

83: L4 DiurnalCheck

- **Carbon partitioning flags:**

90: night  $R_e$  from  $Q_{10}$

100: Day  $R_e$  from light response curve or  $NEEmax$

110: GPP night mask

111: Day  $F_c > R_e$

- **Footprint flags:**

121: Date filter

122: no solution

# **Meta-data**

## **Process flags**

- **Penman-Monteith inversion flags:**

131:  $r_{st} < 0$

132:  $F_e < \text{threshold}$

133:  $F_{sd} < \text{threshold}$

134:  $U = 0$

- **Penman-Monteith aerodynamic resistance flags:**

140: *rav\_base* short circuit (*rav\_top* good)

150: *rav\_top* short circuit (*rav\_base* good)

160: parallel circuit (*rav\_full* and *rav\_top* good)

151: *rav\_top* not short circuit (*rav\_base* bad)

161: not parallel circuit (*rav\_full* short-circuit)