

# Meta-data

## Quality control flags

- **0: good data**
- **QA/QC flags:**
  - 1: No data
  - 2: L2 RangeCheck
  - 3: CSAT Diagnostic
  - 4: LI7500 Diagnostic
  - 5: L2 DiurnalCheck
  - 6: exclude dates
  - 7: exclude hours
- **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
  - 32: Met gap filled from climatology
  - 33: Gap filled from ratios
  - 34: Gap filled by interpolation
  - 35: Gap filled by replacement
  - 36:  $u^*$  from  $F_H$
  - 37:  $u^*$  not from  $F_H$
  - 38: L4 RangeCheck
  - 39: L4 DiurnalCheck
- **albedo flags:**
  - 51: albedo  $F_{sd} < \text{threshold}$
  - 52: albedo time flag
- **Penman-Monteith inversion flags:**
  - 61:  $r_{st} < 0$
  - 62:  $F_e < \text{threshold}$
  - 63:  $F_{sd} < \text{threshold}$
  - 64:  $U = 0$
- **Carbon partitioning flags:**
  - 70: night  $R_e$  from  $Q_{10}$
  - 80: Day  $R_e$  from light response curve
  - 90: GPP night mask
  - 91: Day  $F_c > R_e$
- **Footprint flags:**
  - 101: Date filter
  - 102: no solution