

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: L2 DiurnalCheck
	4: CSAT Diagnostic	5: LI7500 Diagnostic	6: exclude dates
	7: exclude hours	8: albedo F_{sd} < threshold	9: albedo time flag

- Corrections & QA/QC 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
	21: Data-flag mismatch	22: $L = 0$ in $\zeta = z/L$	

- Gap-filling flags:

30: Gap filled by ANN	31: Gap not filled
40: Gap filled from one-minute average	
50: Gap filled from alternate	
60: Gap filled by interpolation	
70: Gap filled by replacement from paired tower	

80: u^* from F_H	81: u^* not from F_H	82: L4 RangeCheck	83: L4 DiurnalCheck
		84: L5 RangeCheck	85: L5 DiurnalCheck
		86: L6 RangeCheck	87: L6 DiurnalCheck

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Process flags

- **Carbon partitioning flags:**

90: night ER from Q_{10}

100: Day ER from light response curve or NEEmax

110: ER, GPP & PD day/night mask

120: Day $F_c = ER$

130: ER_dark sink (+NEP)

140: ER_dark source (+NEE)

150: PD, ER_day & GPP from conditional correlation 151: no CC solution

- **Footprint flags:**

161: Date filter

162: no solution

- **Penman-Monteith inversion flags:**

171: $r_{st} < 0$

172: $F_e < \text{threshold}$

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

174: $U = 0$

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

180: rav_base short circuit (rav_top good)

190: rav_top short circuit (rav_base good) 191: rav_top not short circuit (rav_base bad)

200: parallel circuit (rav_full and rav_top good) 201: not parallel circuit (rav_full short-circuit)

- **Bulk Richardson number flags:**

211: $\Delta U = 0$ (RiB infinite)