ISFS Data Check 3 Aug

Checked sensor time series since Jul 20 2021

- NCharts stopped reporting 2 August 16:12:30
- DSM dashboard stopped reporting 2 August 22:30:40

QC Notes

- There is a data gap 23-24 July. Data from a number of sensors spike downward before disappearing. These need to be filtered.
- Heavy rains July 30-31

- TRH - ok
- P - ok
- Pirga
  - Pirga.7m is offset from P.7m by +6mb (Pirga higher).
  - Pirga.27m measures too high. Pirga.27m > Pirga.17m.
- Tirga
  - Tmote measures wildly divergent values compared to all T measurements
- Radiometer - ok
  - Rpile.in [-150, 0], Rpile.out [-25, 125] W/m2
    - QC Note: Rpile.out - Filter spike at 30 July, 14:12:30
  - Rsw.in [-7, 1200], Rsw.out [-1, 225] W/m2
  - Tcase - ok
  - Wetness - ok
- Soils
  - Gsoil - ok [-39, 55]W/m2
  - Lamdasoil
    - QC Note - Discontinuity after data gap on 24 July - values double from 0.2 W/m to 0.45.
  - Qsoil
    - QC Note - Same as Lamdasoil - values jump from near zero to 0.1 %Vol
  - Tau63 - ok overall
    - QC Note - Same as Lamdasoil - there is a discontinuity after data gap.
  - Tsoil - ok overall
    - QC Note - spikes at all levels July 26 - Aug 2.
- Sonic - ok
- co2/h2o
  - 27m Back online
  - QC Notes
    - A few h2o/co2 spikes July 21-25 to filter that may not get captured by the wetness sensor.
    - Persistent bias: co2.7m > co2.27m > co2.17m
  - Tcase - ok
- Batteries
  - Vheat - ok
  - iload - ok. [1.85 - 2] A
  - icharge - ok. [-.175 to 0.014] A
  - Vbatt - ok
  - l3mote - ok. ~ 50 mA (minus spikes).
  - lmote - ok ~15 mA (minus spikes).
  - Vcharge - ~27.9 V
- Rfan - ok [5400 - 5650] rpm