**HAZELRIGG: Campbell Scientific Automatic Weather Stations**

1. Main Hazelrigg meteorological enclosure, GR 493 578, c. 95m asl.
2. New enclosure, GR 490 579, c.85m asl (just across the motorway from the N end of Campus).

Wind turbine is between the two sites at GR 492 578.

The data are all 10 minute averages (or totals) and the columns are:

**Station A:**

E - Temperature (°C) (measured by temp/RH sensor in Stevenson Screen)  
F - Relative Humidity (%) in Stevenson Screen  
G - Solar irradiation: 10 min average (kW/m2)

H - Solar irradiation: 10 min total (kJ/m2)  
I, J - Sunshine duration (minutes, seconds)  
K - Air temperature in Stevenson Screen (°C)  
L - Concrete temperature (°C)

M - Grass temperature (°C)  
N, O, P, Q, R, S - Soil temperatures at 5, 10, 20, 30, 50, 100cm (°C)  
T, U, V, W - Sonic Anemometer (wind speed in 3 planes)

Y - Windspeed at 10m on mast (m/s)  
Z - Wind direction at 10m on mast (degrees)  
AA - Rainfall 10 min total (mm)  
AB - Air Pressure (mbar)

**Station B:**

E - Temperature (°C) (measured by temp/RH sensor in Stevenson Screen)  
F - Relative Humidity (%) in Stevenson Screen  
G - Total Solar irradiation: 10 min average (W/m2)

H - Diffuse Solar irradiation: 10 min average (W/m2)

I, J (Not installed)  
K - Air temperature in Stevenson Screen (°C)  
L - Concrete temperature (°C)

M - Grass temperature (°C)  
N, O, P, Q, R, S - Soil temperatures at 5, 10, 20, 30, 50, 100cm (°C)  
T - Windspeed at 10m on mast (m/s)

U - Wind direction at 10m on mast (degrees)  
V - Rainfall 10 min total (mm)  
W - Air Pressure (mbar)

The rest - present weather sensor, eg gives type, size, amounts of precipitation, visibility...

<http://s.campbellsci.com/documents/eu/manuals/pws100.pdf>

X-AC - Date & time

AD - Average visibility (m)

AE - Present weather code (WMO)

AF, AG, AH - Present weather codes (METAR)

AI - Precipitation intensity (mm/hr)

AJ - Precipitation accumulation (mm)

AK - Precipitation average velocity (m/s)

AL - Precipitation average size (mm)

AM onwards - Precipitation types

AV onwards - Errors, alarms, battery etc.

Present weather sensor: [https://www.campbellsci.co.uk/pws100](https://www.campbellsci.co.uk/pws100%20)

Temp/RH sensors: <https://www.campbellsci.co.uk/hmp155a-overview>

All other temperatures: <https://www.campbellsci.co.uk/107>

Pressure: <https://www.campbellsci.co.uk/cs106>

Rainfall: <https://www.campbellsci.co.uk/arg100>

Solar Radiation (A): <https://www.campbellsci.co.uk/lp02>

Sunshine Duration (A): <https://www.campbellsci.co.uk/csd3>

Solar Radiation (Total/Diffuse)  (B): <http://www.delta-t.co.uk/product-display.asp?id=SPN1%20Product&div=Meteorology%20and%20Solar>

Wind Speed: <https://www.campbellsci.co.uk/a100lk>

and Direction: <https://www.campbellsci.co.uk/w200p>

Old enclosure

logger name: **CCSL006413\_A**

programmes: **CCSL006413\_A\_021013.CR1** & **CCSL006413\_A\_021013.tdf**

files: **CCSL006413\_A\_Ten\_Min.dat** & **CCSL006413\_A\_Daily.dat**

New enclosure

logger name: **CCSL006413\_B**

programmes: **CCSL006413\_B\_080812.CR1** & **CCSL006413\_A.tdf**

files: **CCSL006413\_B\_Ten\_Min.dat** & **CCSL006413\_B\_Daily.dat**

From p. 53 of the Loggernet manual:  
  
The Device Configuration Utility, or DevConfig, is a stand-alone tool that can be used to  
configure settings in the dataloggers themselves, as well as in communication devices such  
as RF400 radios or NL100s.

Select CR1000, it should find, alternately, the ‘A’ logger on PakBus 1 and the ‘B’ logger on PakBus 2. Once connection has been established, disconnect, then should be able to go to the main Setup menu to edit scheduled collections etc.