

Documentation Paposo Upper Site AWS

1) Location

Located at Paposo upper site, approx. 50 m from cabin.

Coordinates (using AMC's GPS during installation):

Latitude: 25° 0.4' S

Longitude: 70° 27.011' S

Altitude: 700 masl

Installation: July 23, 2008

Retired: November 15, 2008.

2) Sensors and equipment

Name/Make	Model	S.N.
Pyranometer Apogee	PYR-P	5260
Net radiometer Kipp&Zonen	NR Lite	020981
Pressure Vaisala	PTB101B	V2030018
Wind RMYoung	03001 Wind Sentry	-
T/HR Vaisala	HMP45C	W4740019
Data logger CSI	CR10X-2Mega	36878

3) Picture



4) Data file

Data file name: Paposo2008.DAT

Format: comma separated values, ASCII.

Validation status: raw data (see remarks)

Column identification:

Column	Variable	Units/remarks
1	station code	251
2	year	-
3	julian day	-
4	HHMM	time is UTC-4 (see remarks)
5	battery voltage	V
6	Internal temperature	°C
7	Air temperature	°C
8	Relative Humidity	%
9	Atmospheric pressure	hPa-1000
10	Net radiation	W/m ²
11	Solar radiation	W/m ² (see remarks)
12	Scalar wind speed	m/s
13	Vector wind speed	m/s
14	Wind direction	° (see remarks)
15	Std. dev. wind dir.	°
16	Wind Gust	m/s

5) Remarks

5.1 Data period in file is 5 minutes. Sensors are interrogated every 5 seconds. Time stamp marks the end of averaging period.

5.2 Wind direction must be corrected:

$$WD_{corr} = WD + 12^\circ,$$

where WD is the raw data, and WD_{corr} is referred wrt Magnetic North.

5.3 Solar radiation data has occasional error values