

Table 1: Monitoring site instrumentation characteristics.

Variable	Sensor	Height or depth (m)	Measurement range	Maximum error	Site no.
Temperature (°C) and relative humidity (%)	HMP45C	2.0	-39.2 to +60°C and 0.8% to 100%	±0.5°C and ±3%	1
	HC2S3	9.5 and 11.0		±0.1°C and ±0.8%	2
Rainfall (mm)	Hydrological Services TB4	1.5 and 11.0	0 to 700 mm h ⁻¹	±3%	1 and 2
Atmospheric pressure (mbar)	Vaisala CS106	1.0	500 to 1100 mBar	±1.5 mBar	1
Wind direction (°) and velocity (m.s ⁻¹)	Young 05103	2.0 and 11.0	0 to 360° and 0 to 100 m s ⁻¹	±3° and ±0.3 m s ⁻¹	1 and 2
Solar radiation (MJ.m ⁻²)	Kipp & Zonen CMP3	2.0	0 to 2000 W m ⁻²	±5%	1
Soil moisture (%)	FDR Environscan Sentek	-0.3; -0.6 and -			1*
		0.9	0 to ~65%	±3%	
		-0.1; -0.5; -0.7; -1.0 and -1.5			2
Net solar radiation (W.m ⁻²)	Kipp & Zonen NR-LITE2	11.0	±2000 W m ⁻²	±5%	2
Soil heat flux (W.m ⁻²)	Hukseflux HFP01	-0.1	±2000 W m ⁻²	-15% to +5%	2
Water table (groundwater) (m)	Diver Schlumberger	-40.0 and -39.2	0 to 10 m	± 2.5 cm	1 and 2

*At site 1, the bare soil did not have soil moisture probes.

