Measurement	Instrument	Key instrument specifications
Total snow depth	Ultrasonic Judd depth sensor	See above
Snow water equivalent	DWR snow pillow with GE Druck PMP 317 transducer	Accuracy: −0.6 to 2.6 % (Palmer, 1986) Range: 0–150 in. (318 cm) water
Air temperature/relative humidity	Campbell HMP45C	See above
Ground temperature	Buried YSI thermistor string	Accuracy: ±0.1 °C
Air pressure	Met One 092 barometer pressure sensor	Resolution: 0.1 mb Accuracy: ±0.35 mb Long-term stability: ±1.0 mb in 1 year
Upward-looking direct broadband solar radiation	Delta-T Sunshine Pyranometer SPN1	Spectral response: 0.400 to 2.700 µm Manufacturer accuracy: not given Wilcox and Myers (2008) February to May accuracy: 3.0 to 8.1 % bias
Upward-looking diffuse broadband solar radiation	Delta-T Sunshine Pyranometer SPN1	Spectral response: 0.400 to 2.700 µm Manufacturer accuracy: ±5.0 % Wilcox and Myers (2008) February to May accuracy: −13.8 to −4.3 % bias
Upward-looking near infrared solar radiation	Ventilated Eppley Precision Spectral Pyranometer with Schott glass RG8 hemispherical filter	Spectral response: 0.700 to 2.800 µm Accuracy: ±2.0 %
Downward-looking radiation	Eppley Precision Spectral Pyranometer with Schott glass WG7 clear dome	Spectral response: 0.285 to 2.800 µm Accuracy: unknown for diffuse radiation from snow
Downward-looking near infrared radiation	Eppley Precision Spectral Pyranometer with Schott glass RG8 hemispherical filter	Spectral response: 0.700 to 2.800 µm Accuracy: unknown for diffuse radiation from snow
Upward-looking longwave radiation	Eppley Precision Infrared Radiometer	Spectral response: 4.00 to 50.00 µm Accuracy: ±2.5 %
Wind speed and direction	RM Young 5103 Wind Monitor Lufft WS600 UMB ultrasonic anemometer	Range: 1.1 to 100 m s^{-1} Accuracy: speed ±1 %; direction ±3° Range: 0 to 75 m s^{-1} Accuracy: speed ±1 m s^{-1}; direction ±3°