

**Table 5: CARE instrumentation**  
 (table mirrored at [c3vp.org](http://c3vp.org) with links to details)

Sensor / system	Measurements
2-wavelength polarized lidar	Cloud detection, cloud phase, aerosols
W-band polarized cloud radar	Cloud phase, particle type, precip rate
C-band polarized precip radar (scanning from 30km range away)	Precip type and rate
X-band radar	Cloud detection, particle type
Profiling radiometer	Liquid water path
Standard met station	Pressure, temp, humidity, winds
Ceilometer	Cloud detection
Radiosonde	Pressure, temperature and humidity profile
POSS	Precip occurrence and rate, precip type, DSD
Hot plate	Precip occurrence and rate
Pyranometer/Pyrgeometer	Radiation
Sun photometer	Radiation
Precipitation gauges	Precip rate, snow depth
915MHz wind profiler	Wind profile
Sky imager/photography	Opacity, particle type
Fast Fourier Transform Spectrometer	Cloud phase
PMS probe	Spectra
Hyper Spectral Imager	Cloud occurrence, radiation
GPS receiver	Integrated moisture