

Mobile Deployment Platform Measurement and Sensors

Sub-system	Measurement	Instrument		
		Make	Model	Sampling Frequency
Terrestrial	Eddy Covariance Turbulent Exchange	Campbell Scientific	CSAT3	20 Hz
		Xsens	MTI-300-2A5G4	40 Hz
		LI-COR	LI-7200	20 Hz
	Aspirated Air Temperature [Top - Single]	Thermometrics	RTD100	1 Hz
		Met One	076B	
	Net Radiation	Hukseflux	NR01	1 Hz
	Photosynthetically Active Radiation (PAR) [Top]	Kipp & Zonen	PQS1	1 Hz
	Relative Humidity	Vaisala	HMP155	1 Hz
	Atmospheric CO ₂ isotopes	Picarro	G2131-i	1 Hz
	Atmospheric H ₂ O isotopes	Picarro	I2130-i	1 Hz
	Eddy Covariance - Storage Exchange	LI-COR	LI-850	1 Hz
	Aspirated Air Temperature [Mid-Level - Single]	Thermometrics	RTD100	1 Hz
		Met One	076B	1 Hz
	Surface Temperature	Apogee	SI-111	1 Hz
	Photosynthetically Active Radiation (PAR) [Mid-Level]	Kipp & Zonen	PQS1	1 Hz
	2D Wind Speed and Direction	Gill	WindObserver II	1 Hz
	Phenology Imagery	Stardot	Netcam SC CAM-SEC5IR-B	15 min.
	Soil CO ₂ Flux	LI-COR	LI-8100 + 4 Chambers	1 Hz
	Soil Moisture and Temperature	Acclima	TDR-315L	0.1 Hz
	Soil Heat Flux	Hukseflux	HPF01SC	0.1 Hz
Precipitation - Secondary	Met One	372	On event	
Barometric Pressure	Vaisala	PTB330	1 Hz	
Photosynthetically Active Radiation (PAR) [Quantum Line]	LI-COR	LI-191-01	1 Hz	
Aquatic	Nitrate	Seabird	SUNA V2	15 min.
	Water Temp	Thermometrics	RTD100	15 min.
	Conductivity	YSI	EXO2 Sonde	1 min.
	pH			
	DO			
	fDOM			
	Chlorophyll	In-Situ	Level TROLL 500	1 min.
	Water Level			
	PAR	Kipp & Zonen	PQS1	1 Hz
	Water Grab Sampling	Teledyne ISCO	6712	As needed