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ER-2 - AFRC Instruments

Instrument	Full Name	Contact Person	Team	Type	Measurements
MMS	Meteorological Measurement System	T. Paul Bui (PI)	MMS		3D Wind, Turbulence, Temperature, Position, Velocities, Attitudes, True-Airspeed, Potential Temperature
ROZE	Rapid Ozone Experiment	Reem A. Hannun (PI)			O3
CAFE	Compact Airborne Formaldehyde Experiment	Jason M. St. Clair (PI)	CAFE	Fluorescence	CH2O
CANOE	Compact Airborne NO2 Experiment	Jason M. St. Clair (PI)	CAFE	Fluorescence	NO2
HAL	Harvard Halogen Instrument	David Wilmouth (PI)	Harvard Halogen	Fluorescence	BrO, ClO, ClONO2
HWV-LYA	Harvard Lyman-α Photofragment Fluorescence Hygrometer	Jessica B. Smith (PI)	Harvard H2O	Fluorescence	H2O
DPOPS	DCOTSS Portable Optical Particle Spectrometer	John Dykema (PI)		Spectrometer (in situ)	particle number density, Particle size distribution
UCATS	UAS Chromatograph for Atmospheric Trace Species	Brad Hall (PI)	PANTHER/UCATS	Gas chromatography, Spectrometer (in situ), Spectrometer (in situ)	N2O, SF6, CH4, CO, O3, H2, H2O, CHCl3, CCl4, CF2Cl2, CFCl3, CF2ClCFCl2, Halon-1211
ICOS	Harvard Integrated Cavity Output Spectroscopy	David Sayres (PI)	Harvard H2O, ICOS	Laser absorption	H2O
AWAS	Advanced Whole Air Sampler	Elliot Atlas (PI)	AWAS	Whole Air Sampling	CFCs, HFCs, HCFCs, Halons, Solvents, VSLS, NMHCs, Organic Nitrates, CO, CH4, N2O
HUPCRS	Harvard University Picarro Cavity Ring Down Spectrometer	Steven C. Wofsy (PI)	HUPCRS	Spectrometer (in situ)	CH4, CO2, CO
PALMS-NG	Particle Analysis By Laser Mass Spectrometry- Next Generation	Daniel Cziczo (PI)	PALMS-NG	Spectrometer (in situ)	Particle Composition, Aerosol