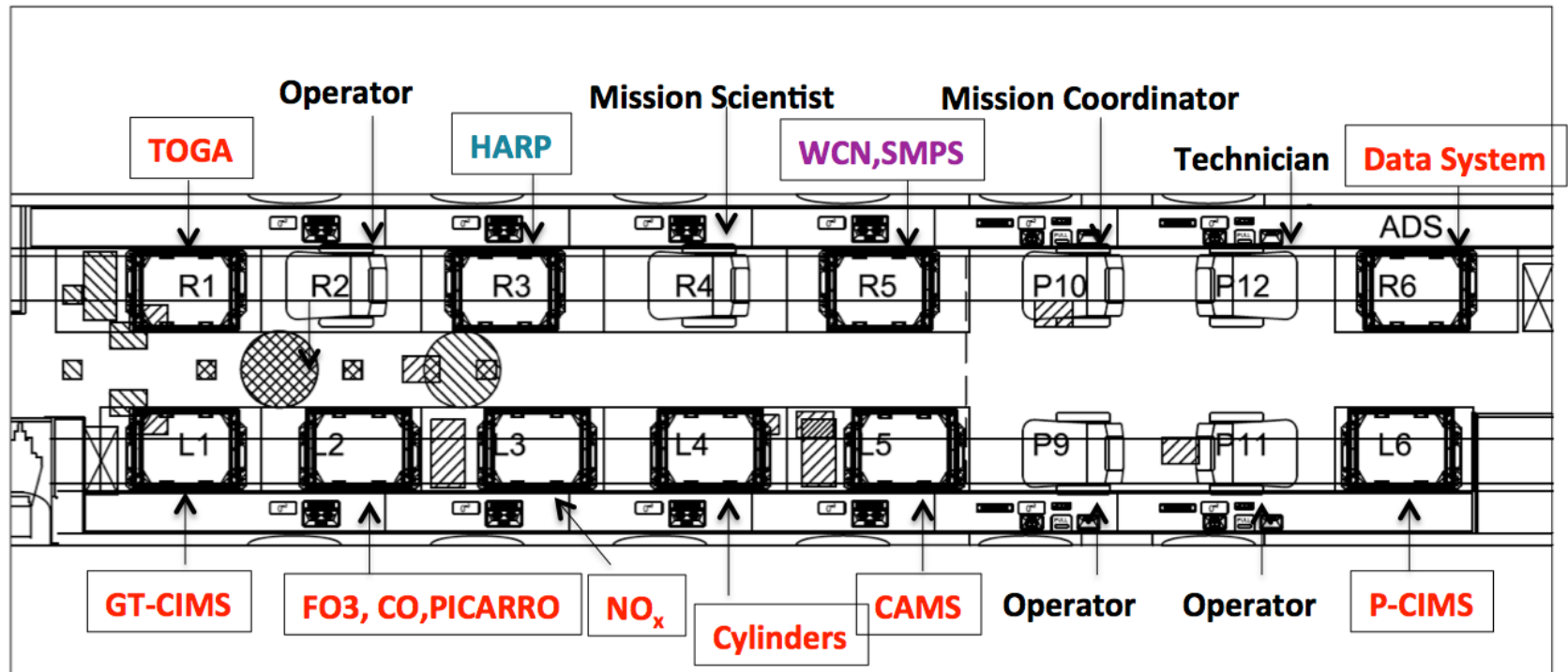


GV SEAC4RS Payload Table

Investigator/Institution	Instrument	Measurements	Method, data rate, resolution
State parameters			
Schanot/NCAR RAF	State Parameters	Lat/Lon, P, T, 3D wind	Various, 1-25 Hz
Beaton/NCAR RAF	Digital Video	forward view	Digital video
Microphysics			
Rogers/NCAR RAF	CDP	cloud hydrometeors	Spectrometer, 1 Hz, 2 - 50 μm ,
Rogers/NCAR RAF	2D-C	cloud hydrometeors	Particle Imaging, 1 Hz, 25-1600 μm ,
Jensen/NCAR RAF	3V-CPI	cloud hydrometeors	Particle Imaging, 1Hz, 2.3 μm
Rogers/NCAR RAF	UHSAS	aerosols	Spectrometer, 1-10 Hz, 0.075 - 1 μm ,
Rogers/NCAR RAF	WCN	aerosols	Optical counter, 0.01 - 3 μm ,
Smith/NCAR ACD	SMPS	aerosol size distributions	Scanning Mobility Particle Sizer, 60 s
Avallone/CU	Total Water TDL	total water	Closed-path Laser Hygrometer, 1 Hz, 10%
Zondlo/Princeton	VCSEL	water vapor	Laser Hygrometer, 1-25 Hz
Chemistry			
Weinheimer/NCAR ACD	NO _x	NO, NO ₂	Chemiluminescence, 1 Hz
Weinheimer/NCAR ACD	Fast Ozone	O ₃	Chemiluminescence, 1-5 Hz
Campos/NCAR ACD	VUV CO	CO	Vacuum UV resonance fluorescence, 1 Hz
Flocke/NCAR ACD	Picarro	CO ₂ , CH ₄	Spectroscopy, 1-5 Hz
Apel/NCAR ACD	TOGA	NMHCs, OVOCs	Gas chromatograph/mass spectrometer, 1-3 min.
Huey/GT	GT-CIMS	HNO ₃ , HNO ₄ , SO ₂ , HCl	Chemical Ionization Mass Spectrometer, 1-2 Hz
Heikes/URI	P-CIMS	H ₂ O ₂ , CH ₃ OOH	Chemical Ionization Mass Spectrometer, 1-10 Hz
Fried/NCAR EOL	CAMS	H ₂ CO, HCOOH	Spectrometer, 1 Hz
Radiation			
Hall /NCAR ACD	HARP	spectral actinic flux, spectral irradiance	Spectroradiometers, 1 Hz

GV SEAC4RS Payload Cabin Layout



Wing Pod Sensors

