

mstrument	Rack req.	Operator	(rack)	(i-beam)	TATIK SIZE	ank size Floor plate Willig		illet	Contact
VCSEL								1	Beaton
Fast 03	1					shared			Campos
NO-NO2	1		2	1	AL, CL	1		0.5	Weinheimer 100 lbs dry ice on ferry
VUV CO				1	BL?	shared			Campos
Picarro CO2, CH4			shared			shared		0.5	Campos
CH2O	0.7			1				1	Hanisco
GT-CIMS	1		1					1	Huey
AMAX-DOAS	1	1					1		Volkamer
Br	0.3			2					Flocke
AWAS	1							1	Atlas
TOGA	1	1	1	2				1	Apel
UHSAS	0.2						1		RAF
2D-C							1		RAF
CDP							1		RAF
MTP	0.1						1		Haggerty
HARP	1							1	Hall
Mission coord.	0.2	1							RAF
Mission sci.		1							Pan
Gas cylinder rack	0		0						RAF
Gas I-beam, x3	0			-6		3			RAF
			_						
Total:	8.5	4	4	1		4	5	7	
Capacity:	4 combine	d	3	0		varies	12	8	

Wina

Inlet

Contact

AL tanks BL/CL tanks Tank size Floor plate

Standard rack has 26U of vertical mounting space.

CONTRAST payload specification

Rack reg. Operator

Instrument

Assumption: CO, Picarro are combined with NO-NO2; MTP, UHSAS are in mission coordinator rack

10/18/2013

Number of cylinders as of 3/7/2012. There is a 3-cylinder rack permanently installed on the GV.

Therre are 11 positions on the GV for seats or racks, plus 3 permanent seats.

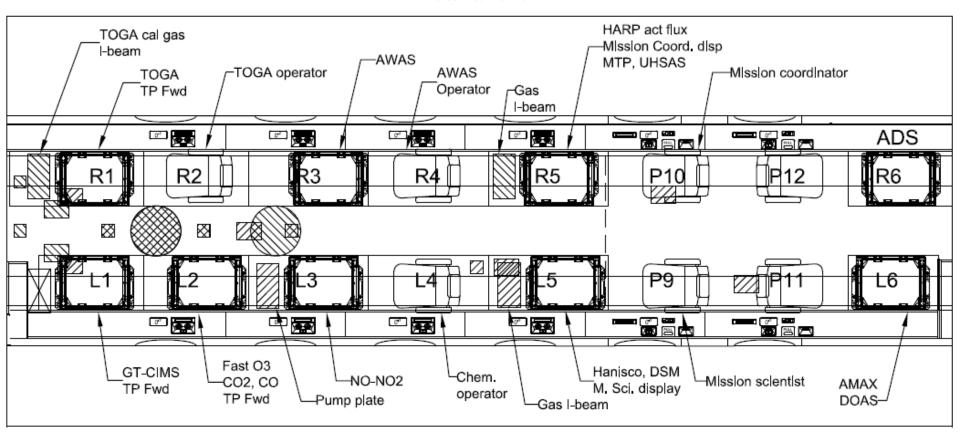
There are 8 total inlet positions. Red inlets are Gold HIMILS.

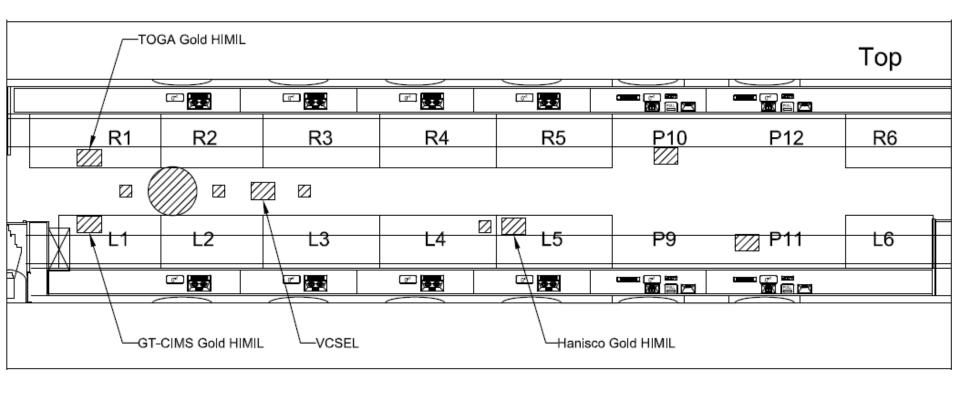
RAF will look if positioning AMAX-DOAS into outboard pylon is possible.

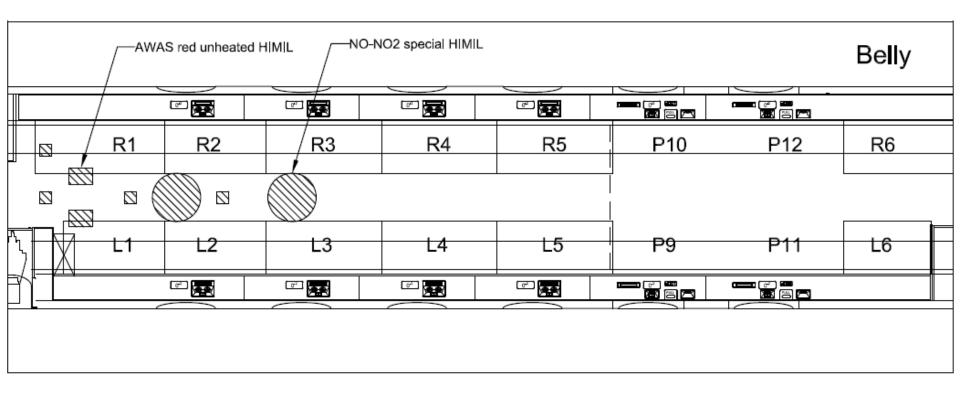
Aft gas rack 3 AL size
i-beam 2 BL / CL size
GV gas rack 4 AL size

CONTRAST GV payload

08/20/2013







Upload schedule for CONTRAST, Jan-Feb 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11/3	11/4	11/5	11/6	11/7	11/8	11/9
	Install wing stores	Install A	MAX-DOAS fiber		Cabin	ready for racks
	Install cabin infrastru	cture				
11/10	11/11	11/12	11/13	'	11/15	11/16
			Install L6 AMAX	-DOAS		
11/17	11/18	11/19	11/20	11/21	11/22	11/23
	Install R5 HARP		Install i-beams			
	Install L5 Hanisco					
11/24	11/25	11/26	11/27	11/28	11/29	11/30
	Install L3 NO-NO2					
	Install L2 Fast O3					
	10.0			1015		10.55
12/1	12/2	12/3	12/4	12/5	12/6	12/7
	Install R3 AWAS		Install R1 TOGA			
12/8	12/9	12/10	12/11	12/12	12/13	12/14
	Install L1 GT-CIMS					l racks installed
12/15	'	12/17	•	12/19	12/20	12/21
	Configure and prepar	re all instru	ments			
	Calibrations					
12/22	12/23	12/24	12/25	12/26	12/27	12/28
		MI if ready				oad flight ready
		-				
12/29	12/30	12/31	1/1	1/2	1/3	1/4
	SAR			Weigh GV	TF01	
				Safety brief		
				EMI, FRR		

Deployment schedule for CONTRAST, Jan-Feb 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Í	Í	ĺ	1/1	1/2	1/3	1/4
				Weigh GV	TF01	
				Safety brief		
				FRR		
1/5	1/6	1/7	1/8	1/9	1/10	1/11
Down	J	TF02		TF03		RF01
						KBJC-PHKO
1/12	1/13	1/14	1/15	1/16	1/17	1/18
Down	RF02	Arrive PGUM		RF03		RF04
	PHKO-PGUM	Day lost				
1/19	1/20	1/21	1/22	1/23	1/24	1/25
Down			RF05		RF06	
4.00	4107	4.00	4100	4100	4104	24
1/26	1/27	1/28	1/29	1/30	1/31	2/1
Down	- 1	RF07		RF08		RF09
2/2	2/3	2/4	2/5	2/6	2/7	2/8
Down	J	RF10		RF11	Down	
2/9	2/10	2/11	2/12	2/13	2/14	2/15
	- 1	RF12		RF13	Down	
2/16	2/17	2/18	2/19	2/20	2/21	2/22
	RF14			Down	RF15	
2/23	2/24	2/25	2/26	2/27	2/28	3/1
		RF16	Down		End flight ops	Pack
	[Pre-pack	
3/2	3/3	3/4	3/5	3/6	3/7	3/8
PGUM-PHKO						
РНКО-КВЈС						
Day gained						

GV Research-Ferry ops

- GV to ferry via Honolulu (HNL)
- Support staff fly commercially to Guam, meet / send off GV in HNL
- Send to Pavel shipping and storage requirements for ferry flights, to be arranged at the FBO in HNL
- Hotel in HNL: RAF will arrange for GV crew, if desired can coordinate for other people
- Gases / dry ice in HNL: notify RAF, arrange to deliver to FBO
- RAF mechanics, PM will fly commercially to give seats to science team if needed
- Baggage pit contents: coordinate with RAF. HARP cal, dry ice, other?
- Hard down day in HNL of the way to Guam

Crew Rotation

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															lana	uar	v										
Role	Days		6	7	8	9	10	11	12	13	14	15	16			_	•	21	22	23	24	25	26	27	28	29	30
								11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GV Pilot	50							11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GV Pilot	28							11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GV Pilot	28																										
																											\Box

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GV Support

Logistics

GV PM

GV PM

Chem. Support

Chem. Support