

TO: Airborne Science Program
 NASA Headquarters
 Mail Suite 3F71
 Attn: Bruce Tagg
bruce.a.tagg@nasa.gov

FAX: (202) 358-2770
 Voice: (202) 358-2890

Flight Report

Aircraft :	NASA 528 (LaRC UC-12)
Operating Site(s) From / To :	KFAF (Felker) -KFAF
Flight Date :	7/26/2011
Flight Number :	HSRL R280 F/A/B (DISCOVER AQ 11A/B) And a Ferry Flight (KFAF to KPHF) prior to research
Take Off Time :	F: 0957 Z KFAF A: 1041 Z KPHF B: 1523 Z KPHF
Landing Time :	F: 1012 Z KPHF A: 1439 Z KPHF B: 1930 Z KFAF
Flight Time :	F: 0.3 A: 4.0 hours B: 4.1 hours 8.4 hours Total
Flt Request # / PI:	11B-201 SOFRS 11-091 LaRC
Purpose of Flight :	Data <input type="checkbox"/> Ferry <input type="checkbox"/> Functional Check <input type="checkbox"/> Other <input checked="" type="checkbox"/>
Aircraft Status:	Up <input checked="" type="checkbox"/> Down <input type="checkbox"/>
Sensor Payload :	DISCOVER-AQ (HSRL & ACAM)
Comments :	Discover AQ Research Flights with HSRL & ACAM. Aircraft based at KFAF due to KLF1 runway closure. (Ferry hop from FAF to PHF required for fuel, required IFR approach into PHF due to low clouds).FL260, good ATC coordination. Weather was warm but very clear on the north side of the DC area. End of 2 nd flight, early RTB and a pass over the COVE site. Next flight tentatively scheduled for 27 July 2011.

SUBMITTED BY Mike Wusk DATE: 7/26/11

Flight Hours Summary

Flight	Date	Aircraft Flight #	Data Flight#	Duration (hr)	Running Total(hr)	Remaining Hours*
						100.00
KLFI-KLFI	6/25/11	11-066	ICF	1.7	1.7	98.3
KLFI-KLFI	7/01/11	11-070	1A	4.3	6.0	94.0
KLFI-KLFI	7/01/11	11-070	1B	3.4	9.4	90.6
KLFI-KLFI	7/2/11	11-071	2A	4.0	13.4	86.6
KLFI-KLFI	7/2/11	11-071	2B	3.6	17.0	83.0
KLFI-KLFI	7/5/11	11-072	3A	4.0	21.0	79.0
KLFI-KLFI	7/5/11	11-072	3B	3.9	24.9	75.1
KFAF-KPHF	7/10/11	11-079	4F	0.1	25.0	75.0
KPHF-KPHF	7/10/11	11-079	4A	3.9	28.9	71.1
KPHF-KFAF	7/10/11	11-079	4B	3.8	32.7	67.3
KFAF-KPHF	7/11/11	11-080	5F	0.1	32.8	67.2
KPHF-KPHF	7/11/11	11-080	5A	3.8	36.6	63.4
KPHF-KFAF	7/11/11	11-080	5B	3.9	40.5	59.5
KFAF-KPHF	7/14/11	11-081	6F	0.1	40.6	59.4
KPHF-KPHF	7/14/11	11-081	6A	4.0	44.6	55.4
KPHF-KFAF	7/14/11	11-081	6B	4.1	48.7	51.3
KFAF-KPHF	7/16/11	11-083	7F	0.2	48.9	51.1
KPHF-KFAF	7/16/11	11-083	7B	3.8	52.7	47.3
KFAF-KPHF	7/19/11	11-086	ICF-F	0.1	52.8	47.2
KPHF-KFAF	7/19/11	11-086	ICF	1.5	54.3	45.7
KFAF-KPHF	7/20/11	11-087	8F	.1	54.4	45.6
KPHF-KPHF	7/20/11	11-087	8A	3.9	58.3	41.7
KPHF-KFAF	7/20/11	11-087	8B	3.9	62.2	37.8
KFAF-KPHF	7/21/11	11-089	9F	.1	62.3	37.7
KPHF-KPHF	7/21/11	11-089	9A	3.9	66.2	33.8
KPHF-KFAF	7/21/11	11-089	9B	4.0	70.2	29.8
KFAF-KPHF	7/22/11	11-090	10F	.1	70.3	29.7
KPHF-KPHF	7/22/11	11-090	10A	3.8	74.1	25.9
KPHF-KFAF	7/22/11	11-090	10B	3.7	77.8	22.2
KFAF-KPHF	7/26/11	11-091	11F	.3	78.1	21.9
KPHF-KPHF	7/26/11	11-091	11A	4.0	82.1	17.9

KPHF-KFAF	7/26/11	11-091	11B	4.1	86.2	13.8
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Flight Notes

Flight Name: R-280a

Date: 7/26/2011

Personnel: Yasky, Wusk, Rogers

Take Off Time: 6:41 EST, 10:41z, clouds held up take off from Ft. Eustis

- 10:51z ACAM turned on at 13.5 kft.
- 10:54z acam receiving packets.
- 11:09z calcs.
- 11:30z air temperature outside is -16, while typically is -30 or so.
- 12:19z cameras not saving data.
- 12:22z cameras saving data.
- 13:18z cameras not saving data.
- 13:22z cameras saving data.
- 13:58z cameras not saving data.
- 14:02z cameras saving data.
- 14:10z shuttered laser very briefly (~5 seconds) for aircraft below.
- 14:14z calcs
- 14:22z – still at altitude due to traffic below.

Flight Name: R-280b

Date: 7/26/2011

Personnel: Yasky, Wusk, Rogers

Take Off Time:

- Second Discover-aq flight of the day over the Baltimore/dc region.
- 15:30z acam on at 10kft.
- 15:33z acam receiving packets.
- 15:53z calcs
- 16:15z shuttered laser briefly for plane below.
- 16:30z we can see Philadelphia airport – haven't seen that yet, so this is probably the clearest day so far.
- 17:00z cameras not saving data over APG.
- 17:04z cameras saving data.
- 17:33z shuttered laser briefly for airplane below.
- 18:03z cameras saving data.
- 18:07z shuttered laser briefly for airplane below.

- We terminated after the second “loop” and headed down the shore around the pax area and out to cove. Did one cal over the bay before the turn at ORF in case we hit some cirrus out over the water.
- 18:50:13z over the cove site.
- 18:53z did the other two cal.
- 18:56z – over atlic – just finished cal – the cirrus we saw is a bit over us, but they were just about where we thought they were in terms of distance from the shore.
- 19:00 shuttered laser briefly for traffic below.