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Flight Report

Aircraft :	NASA 528 (LaRC UC-12)
Operating Site(s) From / To :	KFAF (Felker) -KFAF
Flight Date :	7/27/2011
Flight Number :	HSRL R281 F/A/B (DISCOVER AQ 12A/B) And a Ferry Flight (KFAF to KPHF) prior to research
Take Off Time :	F: 1238 Z KFAF A: 1329 Z KPHF B: 1800 Z KPHF
Landing Time :	F: 1243 Z KPHF A: 1724 Z KPHF B: 2111 Z KFAF
Flight Time :	F: 0.1 A: 3.9 hours B: 3.2 hours 7.2 hours Total
Flt Request # / PI:	11B-201 SOFRS 11-092 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).FL260, good ATC coordination. Weather was warm but clear over the DC area. On 2 nd flight, early RTB. Next flight tentatively scheduled for 28 July 2011.

SUBMITTED BY Mike Wusk **DATE:** 7/27/11

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

KFAF-KPHF	7/27/11	11-092	12F	.1	86.3	13.7
KPHF-KPHF	7/27/11	11-092	12A	3.9	90.2	9.8
KPHF-KFAF	7/27/11	11-092	12B	3.2	93.4	6.6

Flight Notes

Flight Name: R-281a

Date: 7/27/2011

Personnel: Kagey, Wusk, Rogers

Take Off Time: 13:29 UTC

- First discover-aq flight of the day.
- 13:41z acam on at 12.3 kft. Receiving packets by 13:44z.
- 14:01z calcs.
- 14:38z- pretty clear down there – much clearer up north than towards the south.
- 15:12z cameras not saving data over APG.
- 15:17z cameras saving data.
- 16:11z cameras not saving data over APG.
- 16:15z cameras saving data.
- 16:48z cameras not saving data.
- 17:03z – calcs.

Flight Name: R-281b

Date: 7/27/2011

Personnel: Kagey, Wusk, Omland

Take Off Time: 18:00 UTC

- Second flight of day for DISCOVER-AQ.
- 18:06 UTC ACAM activated at 10,000 feet.
- 18:09 UTC ACAM receiving packets.
- 18:37 UTC Finished first set of calcs:
- 19:00 UTC We are flying under sparse patches of high cirrus about a few thousand feet above our altitude.
- 19:38 UTC 3 cameras off for pass over Aberdeen.
- 19:43 UTC 3 cameras back on.
- 20:23 UTC Cirrus cover is nearly constant now above us.
- 20:36 UTC 3 cameras off for pass over Aberdeen.
- 20:40 UTC 3 cameras back on.
- 20:52 UTC finished with second set of calcs.