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## Flight Report

<b>Aircraft :</b>	NASA 528 (LaRC UC-12)
<b>Operating Site(s) From / To :</b>	KFAF (Felker) -KFAF
<b>Flight Date :</b>	7/14/2011
<b>Flight Number :</b>	HSRL R274 A & B (DISCOVER AQ 6A &6B) And a Ferry Flight (KFAF to KPHF) prior to research
<b>Take Off Time :</b>	F: 1035 Z A: 1130 Z B: 1613 Z
<b>Landing Time :</b>	F: 1040 Z A: 1531 Z B: 2016 Z
<b>Flight Time :</b>	F: 0.1 A: 4.0 hours B: 4.1 hours 8.2 hours Total
<b>Flt Request # / PI:</b>	11B-201 SOFRS 11-081 LaRC
<b>Purpose of Flight :</b>	Data <input checked="" type="checkbox"/> Ferry <input type="checkbox"/> Functional Check <input type="checkbox"/> Other <input type="checkbox"/>
<b>Aircraft Status:</b>	Up <input checked="" type="checkbox"/> Down <input type="checkbox"/>
<b>Sensor Payload :</b>	DISCOVER-AQ (HSRL & ACAM)
<b>Comments :</b>	Discover AQ Research Flights with HSRL & ACAM. Third event with aircraft based at KFAF due to KLF1 runway closure. (Ferry hop from FAF to PHF required for fuel). FL260, good ATC coordination. Completed entire flight plan on both sorties. Next flight tentatively scheduled for 16 or 17 July 2011

**SUBMITTED BY** Mike Wusk **DATE:** 7/14/11



# Flight Notes

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**Flight Name: R-274a**

**Date: 7/14/2011**

**Personnel: Yasky, Wusk, Rogers**

**Take Off Time: 11:30 UTC**

- First DISCOVER-AQ flight of the day over the Baltimore/DC area. A cold front blew through the area last night so it cooled off and cleaned out the area.
- 11:34 PBL height looks like it is around 5.5-6kft.
- 11:36z ACAM turned on at 10.5kft.
- 11:39z fod covers open.
- 11:39z ACAM receiving packets.
- 12:00z calcs
- 12:23z – Rick noted a bit of a haze layer at our altitude and below us (not in lidar data yet) and some patchy cirrus above us.
- 12:45z – very clear out here today. Not very exciting.
- 13:10z cameras not saving data over APG.
- 13:15z cameras saving data again.
- 13:28:45 over UMBC – in canon camera.
- 14:12z cameras not saving data over APG
- 14:17z cameras saving data again.
- 14:55 z cameras not saving data over APG
- 14:49z cameras saving data again.
- 15:09z calcs
- 15:15z shuttered laser briefly for plane.

**Flight Name: R-274b**

**Date: 7/14/2011**

**Personnel: Yasky, Wusk, Rogers**

**Take Off Time: 16:13 UTC**

- Second DISCOVER-AQ flight of the day.
- 16:19z ACAM turned on.
- 16:23z ACAM receiving packets.
- 16:44z calcs

- 17:54z nothing really exciting going on – some boundary layer clouds but that’s about it. All systems nominal.
- 17:55z cameras not saving data over APG.
- 18:00z cameras saving data.
- 18:27:44z over naval academy in canon camera.
- 18:58z cameras not saving data over APG.
- 19:02z cameras saving data.
- 19:03z should have seen the ship below us just now. Bunch of ships in the canon image – not sure which (if any) it is.
- 19:38 cameras not saving data over APG.
- 19:42z cameras saving data.
- 19:51z calcs