### Flight Report

<table>
<thead>
<tr>
<th>Aircraft:</th>
<th>NASA 528 (LaRC UC-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Site(s) From / To:</td>
<td>KFAF (Felker) - KFAF</td>
</tr>
<tr>
<td>Flight Date:</td>
<td>7/10/2011</td>
</tr>
</tbody>
</table>
| Flight Number: | HSRL R272 A & B (DISCOVER AQ 4A & 4B)  
And a Ferry Flight (KFAF to KPHF) prior to research |
| Take Off Time: | F: 1208 Z  
A: 1315 Z  
B: 1800 Z |
| Landing Time: | F: 1212 Z  
A: 1709 Z  
B: 2148 Z |
| Flight Time: | F: 0.1  
A: 3.9 hours  
B: 3.8 hours  
7.8 hours Total |
| Flt Request # / PI: | 11B-201 SOFRS  
11-079 LaRC |
| Purpose of Flight: | Data [X]  
Ferry [ ]  
Functional Check [ ]  
Other [ ] |
| Aircraft Status: | Up [X]  
Down [ ] |
| Sensor Payload: | DISCOVER-AQ (HSRL & ACAM) |
| Comments: | Discover AQ Research Flights with HSRL & ACAM. First event with aircraft based at KFAF due to KLFI runway closure. (Ferry hop from FAF to PHF required for fuel). FL260, good ATC coordination. On second flight researchers called for early termination of the DISCOVER AQ path and a request to fly down the bay and over the COVE site on the return to LFI. Next flight scheduled for 11 July 2011 |

SUBMITTED BY: Mike Wusk    DATE: 7/10/11
<table>
<thead>
<tr>
<th>Flight</th>
<th>Date</th>
<th>Aircraft Flight #</th>
<th>Data Flight#</th>
<th>Duration (hr)</th>
<th>Running Total (hr)</th>
<th>Remaining Hours*</th>
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**Flight Name: R-272a**

**Date:** 7/10/2011

**Personnel:** Kagey, Wusk, Rogers

**Take Off Time:**

- First DISCOVER-AQ flight of the day.
- 13:43z ACAM operation is nominal.
- 13:43z cals.
- 13:54z brief shutter of laser due to aircraft below.
- 14:53z cameras not saving data due to APG.
- 14:57z cameras saving data again.
- 15:50z cameras not saving data over APG.
- 15:55z cameras saving data.
- 16:31z cameras not saving data over APG.
- 16:47z cals

**Flight Name: R-272b**

**Date:** 7/10/2011

**Personnel:** Kagey, Wusk, Rogers

**Take Off Time:**

- Second Discover-AQ flight of the day.
- 18:15z ACAM on at 18kft.
- 18:31z cals.
- 18:36z all systems nominal.
- 19:35z cameras not saving data over APG.
- 19:40z cameras saving data.
- 20:12z laser shuttered briefly due to aircraft.
- 20:32z cameras not saving data due to APG.
- 20:37z cameras saving data again.
- 21:12z over COVE.
- 21:18z cals