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## **Flight Report**

<b>Aircraft :</b>	NASA 528 (LaRC UC-12)
<b>Operating Site(s) From / To :</b>	KLFI (Langley) -KLFI
<b>Flight Date :</b>	6/25/2011
<b>Flight Number :</b>	ICF
<b>Take Off Time :</b>	1345 Z
<b>Landing Time :</b>	1525 Z
<b>Flight Time :</b>	1.7 hours
<b>Flt Request # / PI:</b>	11-066 LaRC
<b>Purpose of Flight :</b>	Data [ ] Ferry [ ] Functional Check [ ] Other [ x ]
<b>Aircraft Status:</b>	Up [X] Down [ ]
<b>Sensor Payload :</b>	DISCOVER-AQ (HSRL & ACAM)
<b>Comments :</b>	Research instrument checkout flight for HSRL & ACAM instruments in support of DISCOVER-AQ.

**SUBMITTED BY: Luci Crittenden**

**DATE: 6/26/11**



# Flight Notes

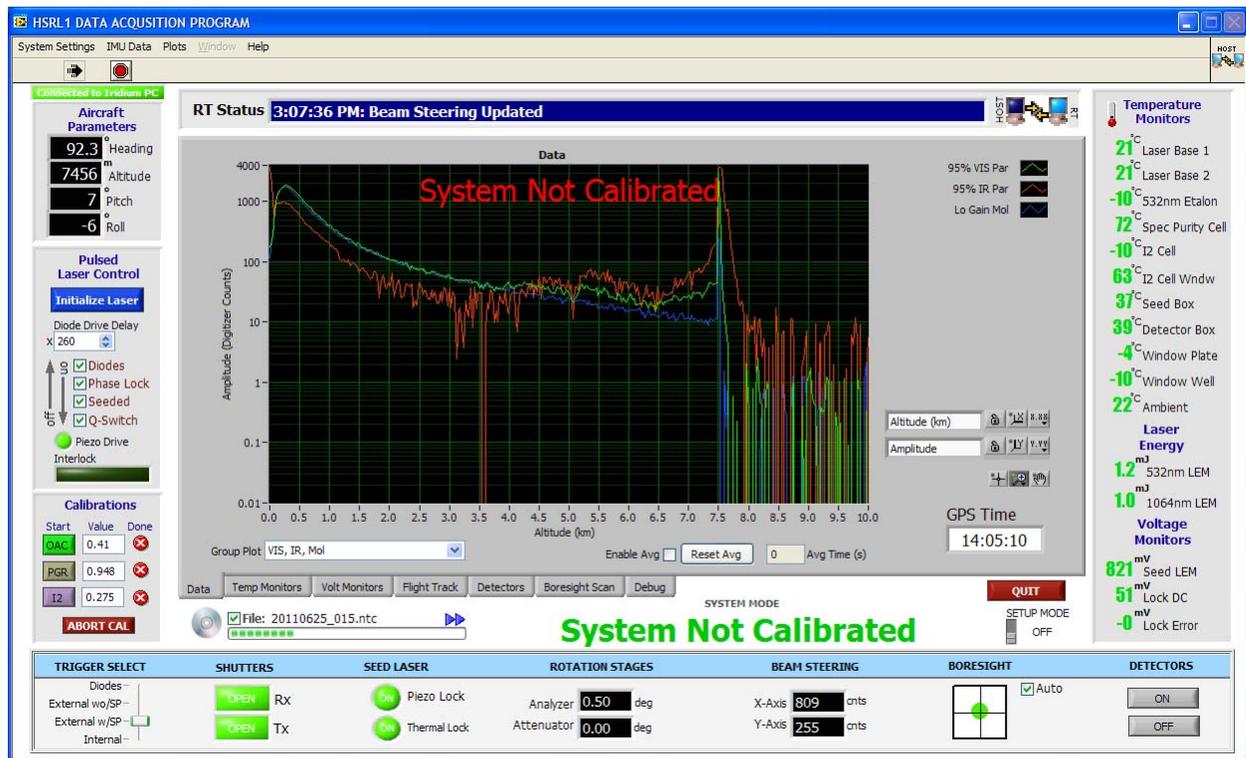
Flight Name: I-268

Date: 6/25/2011

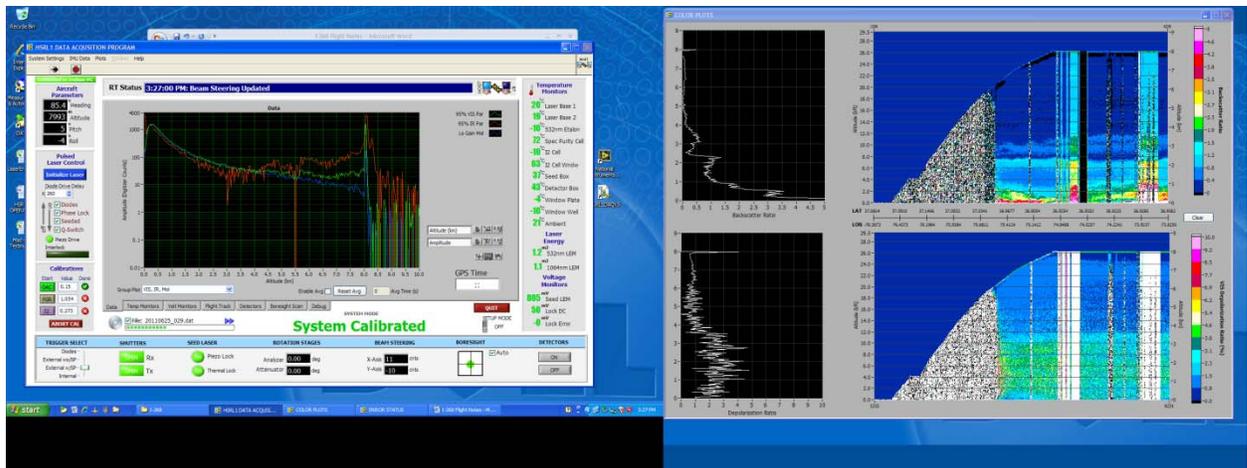
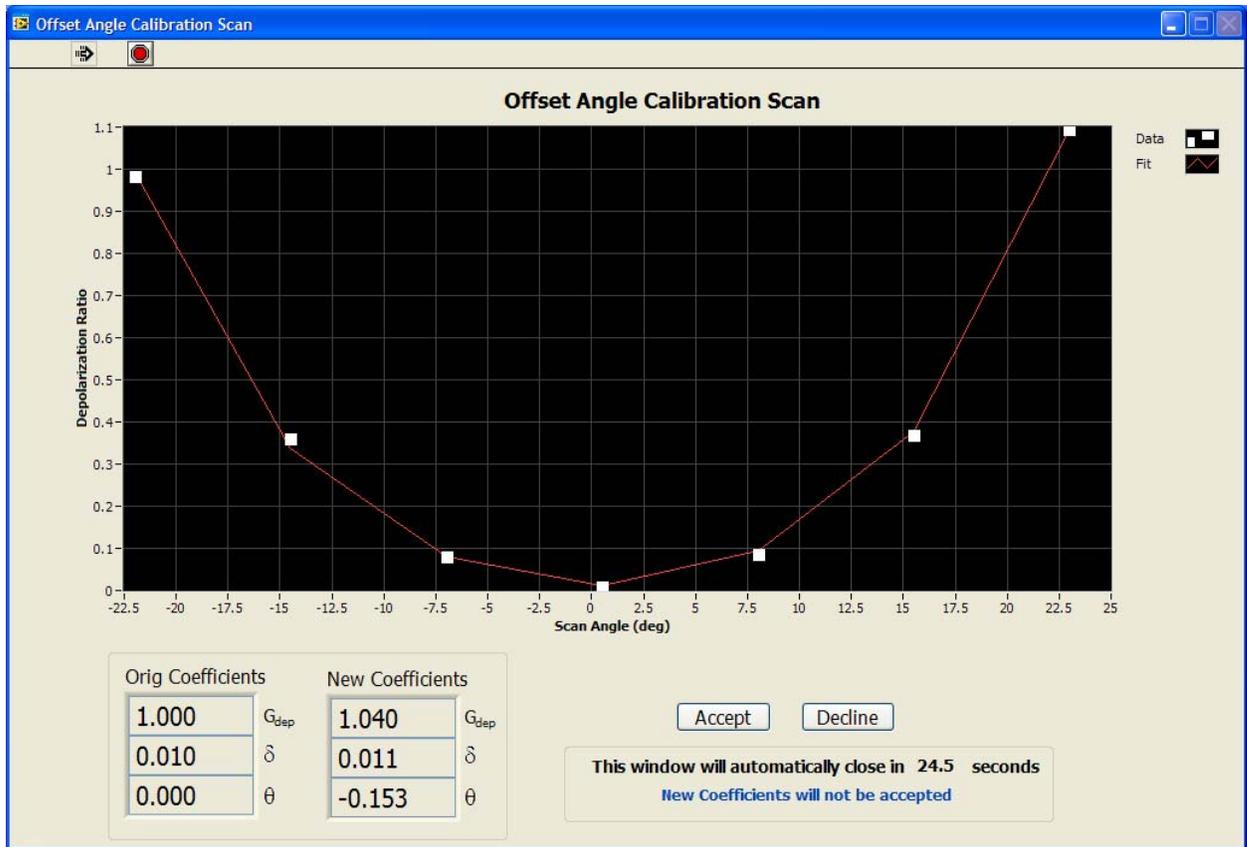
Personnel: Kagey, Crittenden, Rogers, Obland

- ICF for HSRL and ACAM – for DISCOVER-AQ
- 13:55z – turned on ACAM at 11kft. For our reference, it took about ~3 minutes before software on the shuttle computer picked up the packets.
- 14:00z – toggled video for test – worked fine.

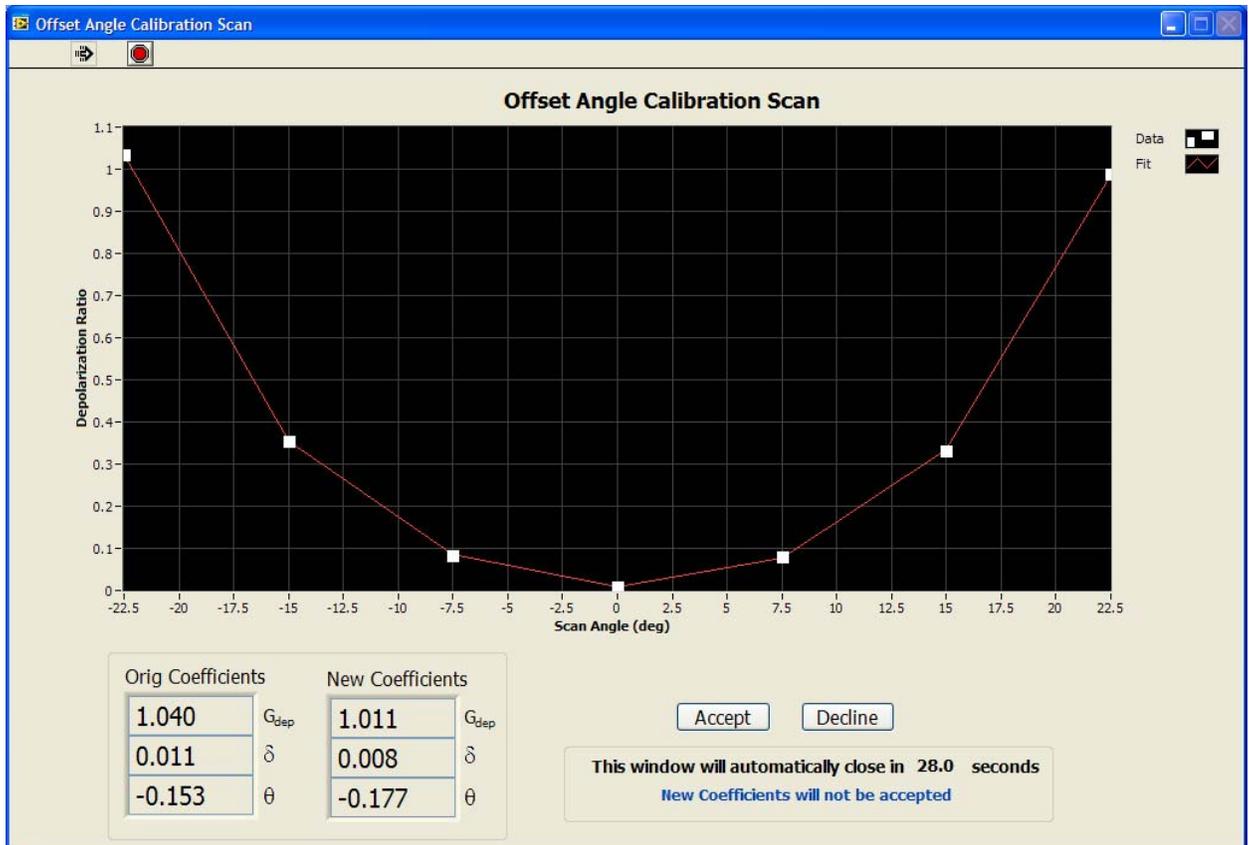
14:05z – all systems nominal.



- 14:05z – no sense in going to 28kft, we're just going to take 25kft and roll since it looks good here.
- 14:10z OAC cal – laser safety kicked in for a turn so aborted cal. Second OAC looked good.



- 14:32z – taking another set of cals with the new IR gains / offset.



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- 14:58z – over land. Kept laser on long enough to see the water return in the molecular signal go away. Stopped transmitting as we do not have a NOTAM in place to lase over land.
- 15:00z going to focus our nadir camera.
- Camera now focused. Shutting HSRL down since we are RTB.