

TO: Suborbital Science Program
NASA Headquarters
Mail Suite 3F71
Attn: Andrew Roberts
andrew.c.roberts@nasa.gov

FAX: (202) 358-2770
Voice: (202) 358-7212

Flight Report

Aircraft :	LaRC B-200 King Air (N529NA) (Operating as NASA529)
Operating Site(s) From / To :	Pt. Barrow, Alaska
Flight Date :	4/9/2008
Flight Number :	R-134
Take Off Time :	1314 Local 2114 UTC
Landing Time :	1755 Local 0155 UTC
Flight Time :	4.7 hours
PI:	Rich Ferrare
Purpose of Flight :	Data <input checked="" type="checkbox"/> Ferry <input type="checkbox"/> Functional Check <input type="checkbox"/> Other <input type="checkbox"/>
Sensor Payload :	HSRL and Digital Camera
Comments :	<p>Local flight from and to Pt. Barrow. Launched on schedule to fly over the NASA DC-8 during a low altitude pass over the Barrow airport. Proceeded on a coordinated flight with the DC-8 on the CALIPSO track. Flew over several spiral patterns and was in close proximity for satellite fly over. Continued down track alone. Weather along the route was clear of clouds at flight level with limited low altitude clouds near the surface.</p> <p>HSRL instrument worked well through CALIPSO underflight. Developed problems on RTB when I2 calibration failed. Diagnosis is I2 cell stuck in nominal science position. This will have no impact on future flights as this calibration remains stable to less than 1% variation and further calibration in the field is not necessary.</p> <p>IMU pitch and roll values seemed to be in better agreement with avionics. Heading values continue to show large errors. Aircraft attitude values may require correction in post processing.</p>

SUBMITTED: Chris Hostetler 907-878-3101

DATE: 4/10/2008

NASA Langley HSRL/B200 09-Apr-2008



