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**Flight Report**

<b>Aircraft :</b>	LaRC B-200 King Air (N529NA) (Operating as NASA529)
<b>Operating Site(s) From / To :</b>	Pt. Barrow, Alaska to Fairbanks, Alaska
<b>Flight Date :</b>	4/13/2008
<b>Flight Number :</b>	R-137
<b>Take Off Time :</b>	1222 Local, 2022 UTC
<b>Landing Time :</b>	1644 Local, 0044 UTC 4/14/2008
<b>Flight Time :</b>	4.4 hours
<b>Flt Request # / PI:</b>	Rich Ferrare
<b>Purpose of Flight :</b>	Data <input checked="" type="checkbox"/> Ferry <input type="checkbox"/> Functional Check <input type="checkbox"/> Other <input type="checkbox"/>
<b>Sensor Payload :</b>	HSRL and Digital Camera
<b>Comments :</b>	<p>Pt. Barrow to Fairbanks Intl. Flew southwest towards the CALIPSO track heading southeast coordinating with NASA 426 for their spiral points tracked the route back NW before getting diverted to the west looking for better weather just prior to the overflight time. Weather even further west was characterized by multiple layers with tops from 15-18000 feet. Recovered to Fairbanks for addl coordination with other platforms.</p> <p>HSRL worked well during flight. Flight was designed to provide aerosol and cloud guidance to NASA P3 during coordinated flight. Flight was delayed by about one hour due to ice fog over Barrow. Over Barrow, high clouds and ice fog were present. As flight progressed southwestward and along CALIPSO track, clouds became thicker and deeper and prevented HSRL from observing aerosols in lower atmosphere. Attempts to find cloud-free areas to the west of the CALIPSO track in western Alaska for the NASA P3 solar measurements were unsuccessful. Thin aerosol layers were observed at 4 km and 6-7 km over western Alaska and along CALIPSO track. Aerosol layer at 6-7 km was most likely dust; aerosol layers at lower altitudes likely smoke.</p>

**SUBMITTED: Rich Ferrare 757-864-9443**

**DATE: 4/16/2008**



