

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 to Pt. Barrow, AK
Flight Date :	4/17/2008
Flight Number :	R-140
Take Off Time :	1221 Local, 2021 UTC
Landing Time :	1646 Local, 0046 UTC 4/18/2008
Flight Time :	4.4 hours
Principal Investigator:	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>Launched for simultaneous over flight of DC-8 in vicinity of Deadhorse, AK arrived just prior to Dc-8 and made a second pass over their spiral. Tracked north over DC-8 projected path for 50 miles and then westbound, arriving at the CALIPSO track just after overflight. Flew north then south along track to 70 miles south of Barrow then recovered at Barrow.</p> <p>During the B200/DC-8 coincident measurements over Deadhorse, HSRL observed thin aerosol layer between 6-8 km; high depolarization suggested mix of dust/ice. Very little aerosol was observed near the surface during the coincident measurements. Along the CALIPSO track west of Barrow, observed elevated ice clouds between 2-6 km along the northern portion of the track. The elevated aerosol layer also seemed to merge into these clouds, so these could also have been mix of ice and dust. This could be good flight to examine CALIPSO aerosol/cloud discrimination.</p>

SUBMITTED: Rich Ferrare

DATE: 4/21/2008

NASA Langley HSRL/B200 17-Apr-2008





