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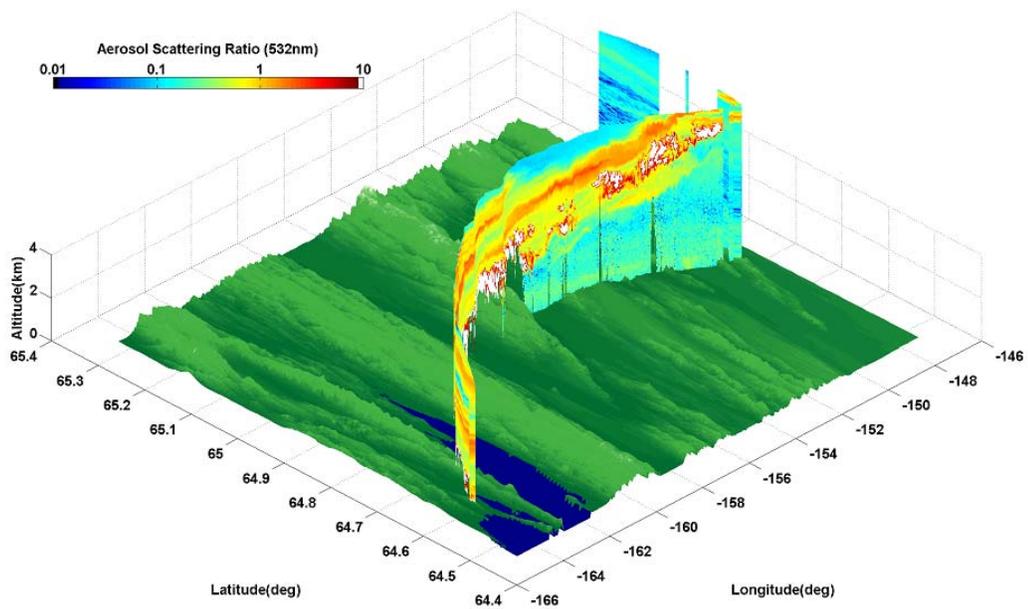
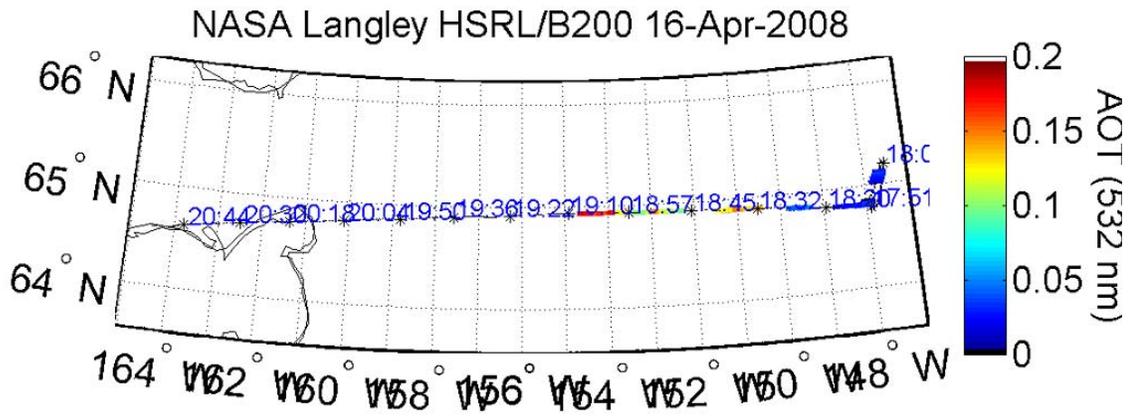
Flight Report

<b>Aircraft :</b>	LaRC B-200 King Air (N529NA) (Operating as NASA529)
<b>Operating Site(s) From / To :</b>	Fairbanks to Nome to Barrow, AK
<b>Flight Date :</b>	4/16/2008
<b>Flight Number :</b>	R-139A and R-139B
<b>Take Off Time :</b>	A- 0949 Local, 1749 UTC B- 1415 Local, 2215 UTC
<b>Landing Time :</b>	A- 1315 Local, 2115 UTC B- 1831 Local, 0231 UTC 4/17/2008
<b>Flight Time :</b>	3.4 and 4.3 hours
<b>Principal Investigator:</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>Launched westward into steadily increasing headwinds enroute to intersection with DC-8 southbound CALIPSO track. After fueling at Nome, launched for northbound CALIPSO track, including over flight of DC-8, western airspace boundary track, over flight of prior DC-8 southwestern track and finally NSA site over flight prior to recovery at Barrow. During first flight, HSRL measured significant elevated aerosol layers. HSRL measurements and model predictions suggest that these layers were smoke/aged Asian pollution. The aerosol layers, and cloud tops, gradually descended to lower altitudes over western Alaska. During the second flight, the HSRL also observed considerable aerosols aloft; however, the aerosols were spread over the entire vertical extent (0-8 km); aerosol layers also exhibited large vertical variability most likely due to the weaker winds that were present over northwest and northern Alaska. Ice layers were observed near Barrow.</p>

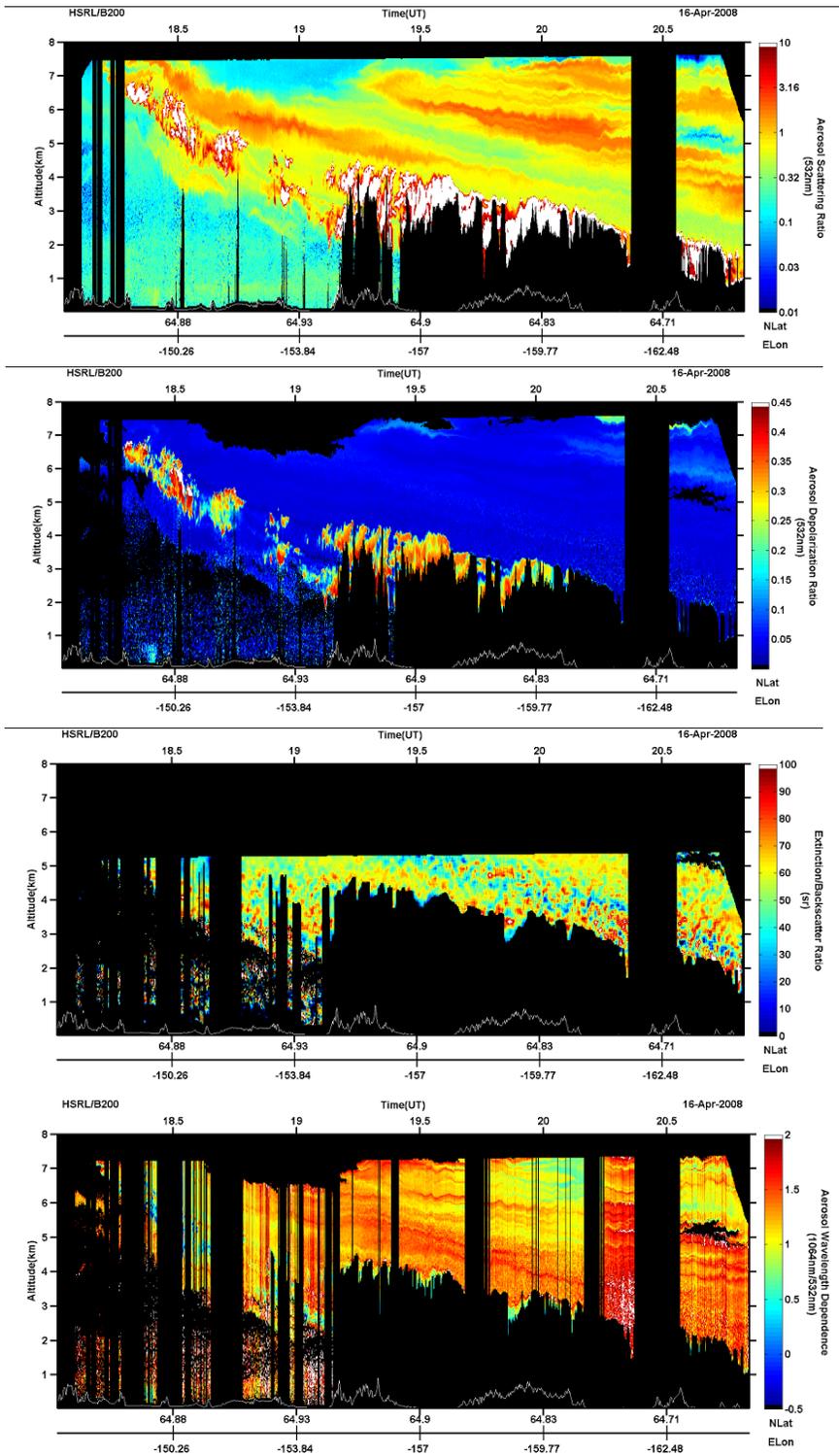
**SUBMITTED: Richard Ferrare**

**DATE: 4/17/2008**

First Flight:

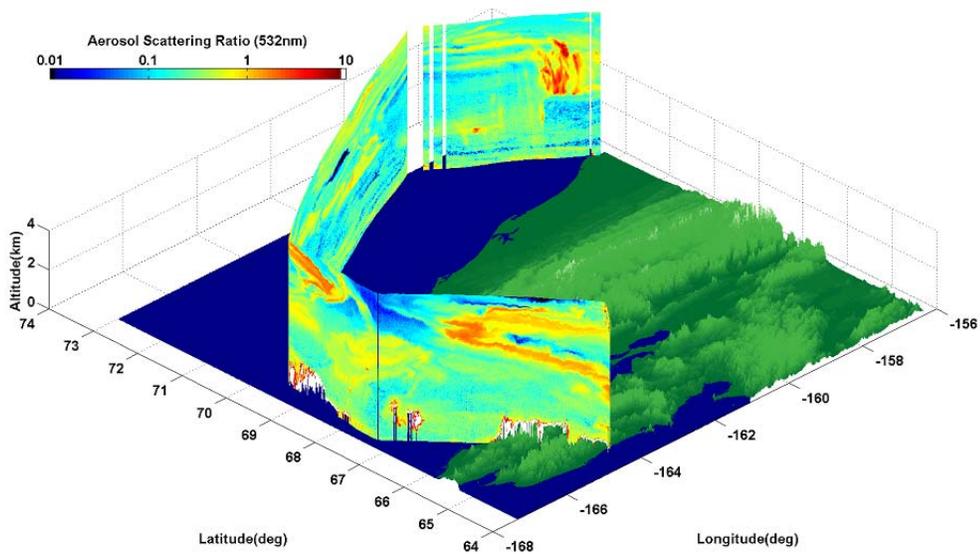
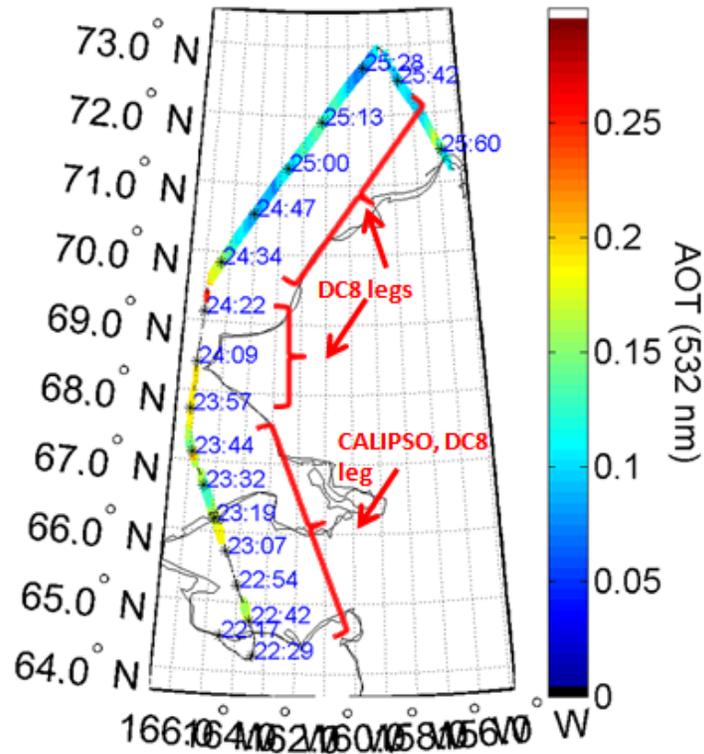


# First Flight:



## Second Flight:

NASA Langley HSRL/B200 16-Apr-2008



## Second Flight:

