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Flight Report

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| Aircraft : | LaRC B-200 King Air (N529NA) (Operating as NASA529) |
| Operating Site(s) From / To : | Fairbanks, AK to Fairbanks, AK |
| Flight Date : | 4/15/2008 |
| Flight Number : | R-138 |
| Take Off Time : | 1054 Local, 1854 UTC |
| Landing Time : | 1605 Local, 0005 UTC 4/16/2008 |
| Flight Time : | 5.2 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 just prior to the NOAA and NASA P-3s to overfly their initial route and east-west inter-comparison track. Turned north and extended as far north on the CALIPSO track as time/fuel allowed. Overflew NASA 426 heading north on the CALIPSO track towards Barrow and passed data on two aerosol layers observed on their route of flight. Recovered to Fairbanks for additional coordination with other platforms for tomorrow's flight.</p> <p>HSRL worked well for the flight. Early part of the flight was coincident with both NASA and NOAA P3 aircraft; coordination leg was mostly cloud free and so this was a good leg to compare in situ and active/passive aerosol measurements. At the end of the leg, the NOAA P3 left and farther west; the B200 and NASA P3 continued coordinated run to the north. Low and mid level clouds were observed at the far northern point. The CALIPSO leg was mostly cloud-free. Aerosol layers between 3-6 km were observed throughout the flight; these layers were most likely aged haze/smoke. These data will be useful for comparing lidar remote sensing measurements of aerosols from HSRL and CALIPSO with in situ measurements on the NASA and NOAA P3 aircraft.</p> |

SUBMITTED: Richard Ferrare 757-864-9443

DATE: 4/16/2008



