

DISCOVER-AQ  
HSRL Data Summary

FLIGHT: Morning science flight (1 of 2)

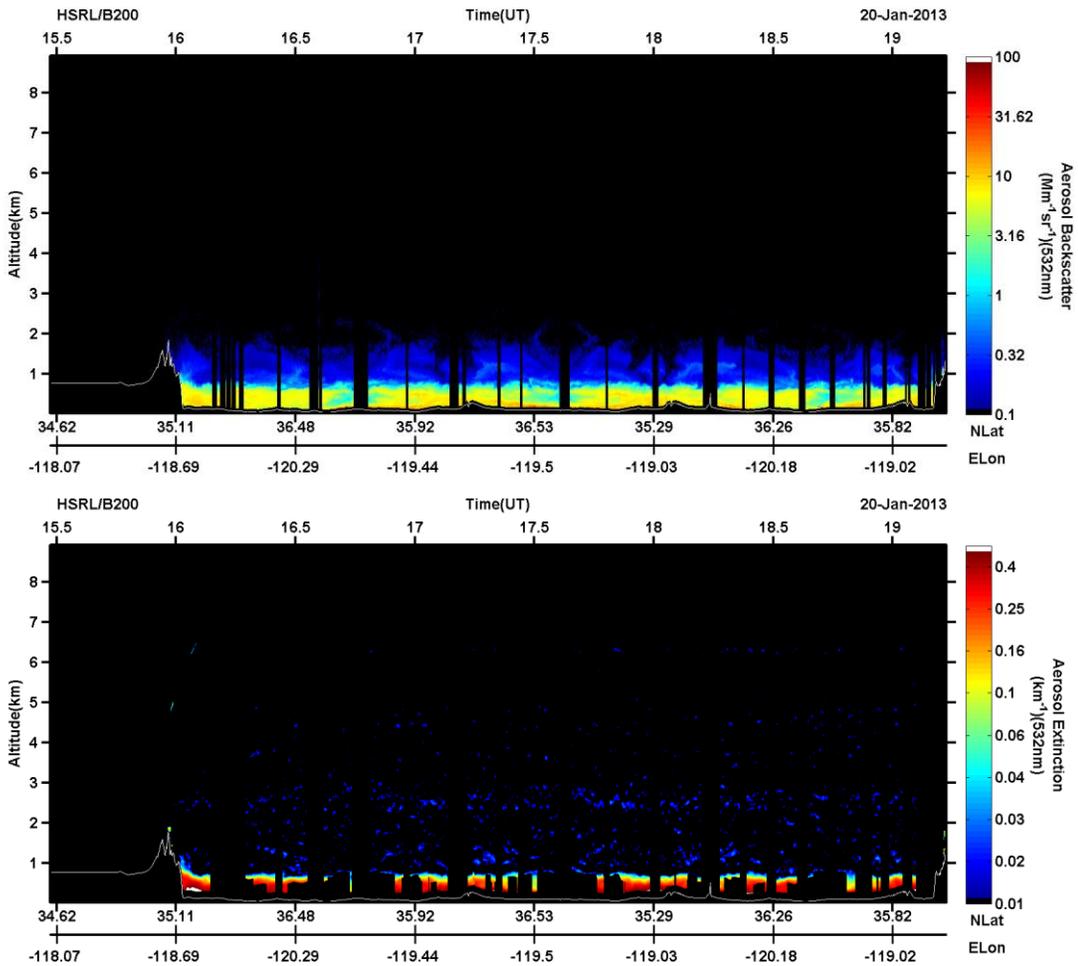
DATE: Jan 20 2013

DURATION: 3.7 hours

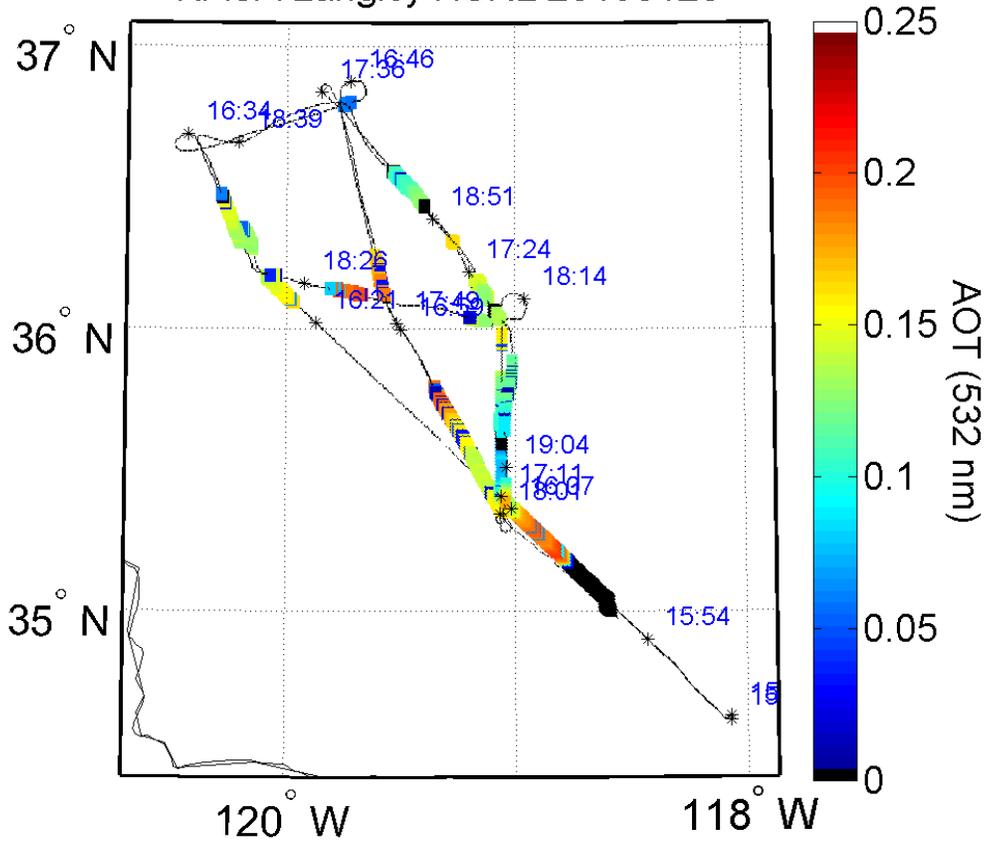
SUMMARY:

HSRL-2 operated nominally through the flight. Dropouts in the extinction and AOT plots are due to high aerosol loading “tripping” our cloud-masking algorithm: i.e., aerosol loading is so high that our algorithms are interpreting some regions as clouding and screening them from the aerosol output. Cloud screening will be adjusted properly in the final archive.

SUMMARY PLOTS:



# NASA Langley HSRL 20130120



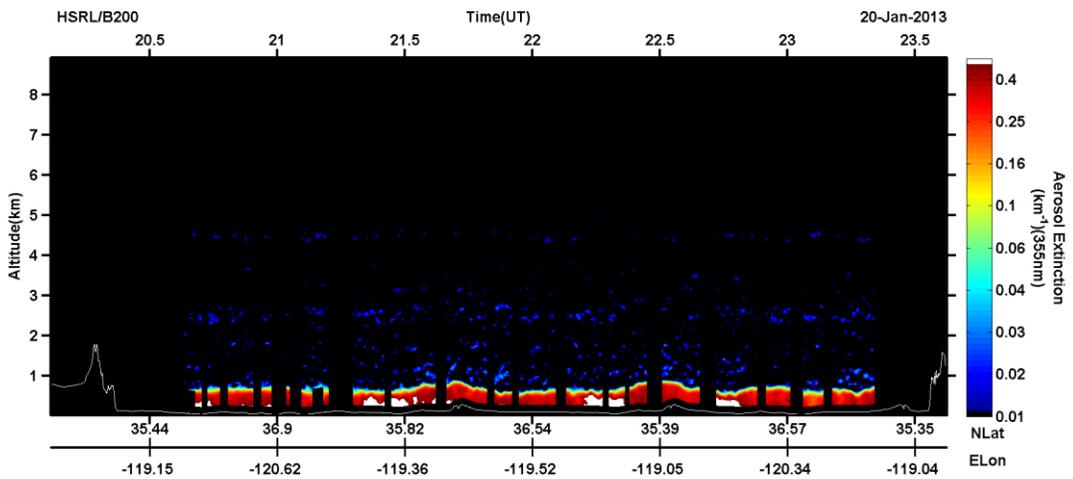
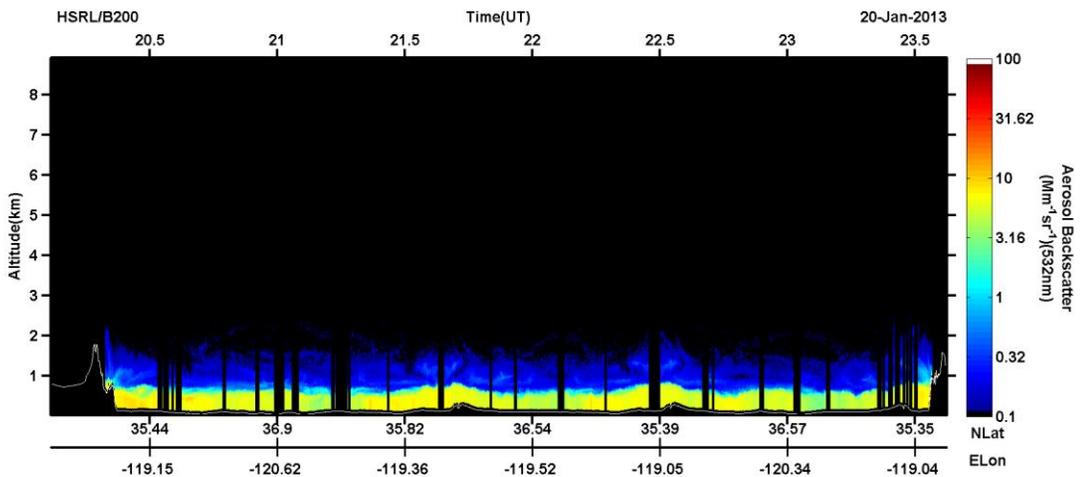
FLIGHT: Afternoon science flight (2 of 2)

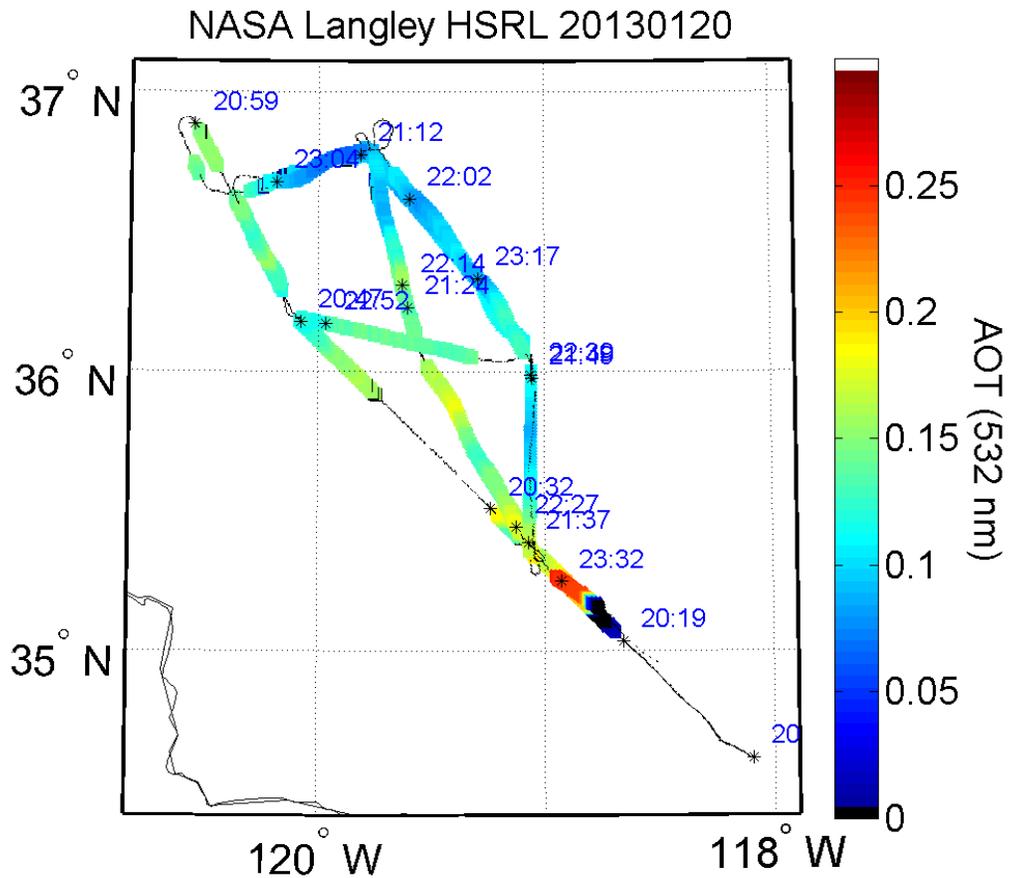
DATE: Jan 20 2013

DURATION: 3.8 hours

SUMMARY: HSRL-2 operated nominally during the flight.

SUMMARY PLOTS:






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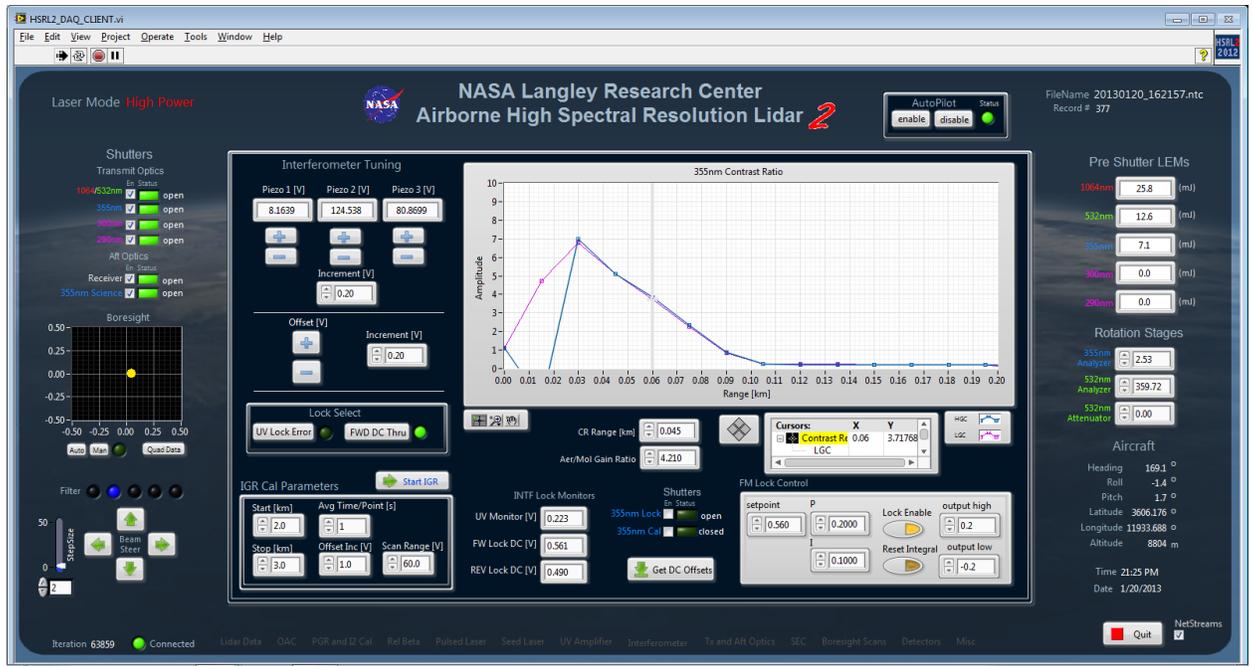
HSRL2 Flight Notes

HSRL2 Flight Notes

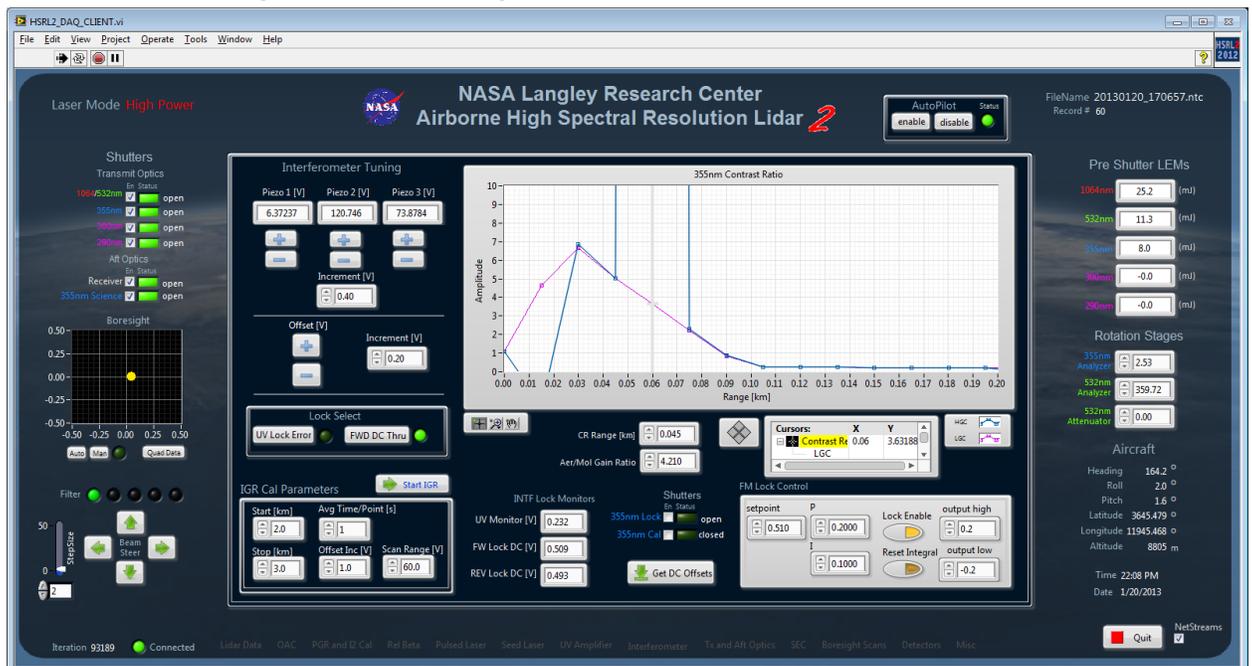
Date: 1/20/2013

Flight 2

- takeoff at 20:05 UTC
- ACAM Powered at 20:11 UTC
- Boresight complete at 20:25 UTC
- All Cals complete at 20:38 UTC
- Boresight Detector Power Reset at 20:38 UTC
- Boresight re-adjust complete at 20:44 UTC
- Interferometer non-gain corrected CR = 3.74 optimization complete at 21:25 UTC



- 355 Boresight re-optimization at 21:28 UTC
- Interferometer non-gain corrected CR decrease to 3.61. Not able to increase beyond this point.
- 532 Boresight adjustment at 21:40 UTC
- 355 Boresight adjustment at 21:42 UTC
- 532 Boresight adjustment at 21:58 UTC
- Interferometer Settings at 22:08 (See Image Below)



- Cals Complete at 23:29 UTC

- Interferometer placed in severe tilt condition at 23:30 UTC
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