

DISCOVER-AQ

HSRL Data Summary

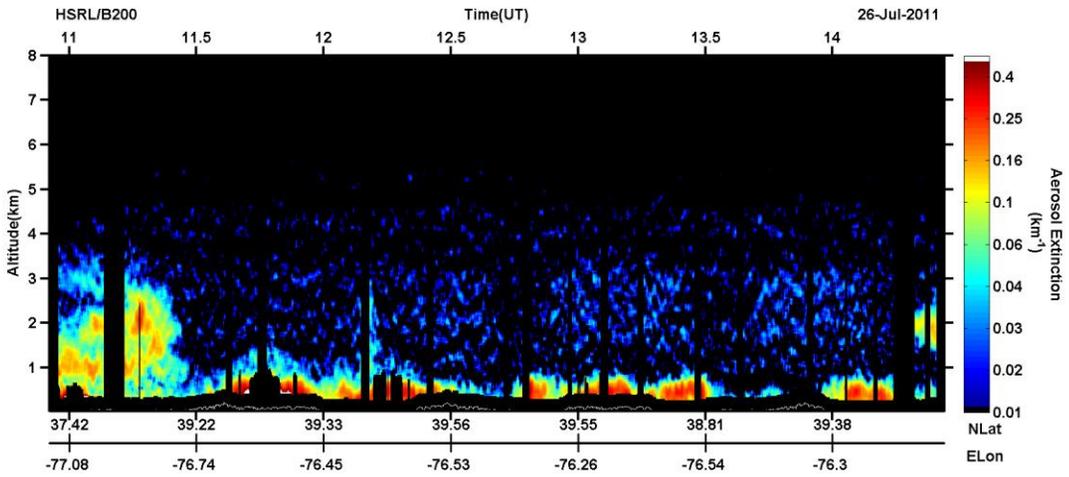
FLIGHT: Morning science flight (1 of 2)

DATE: July 26, 2011

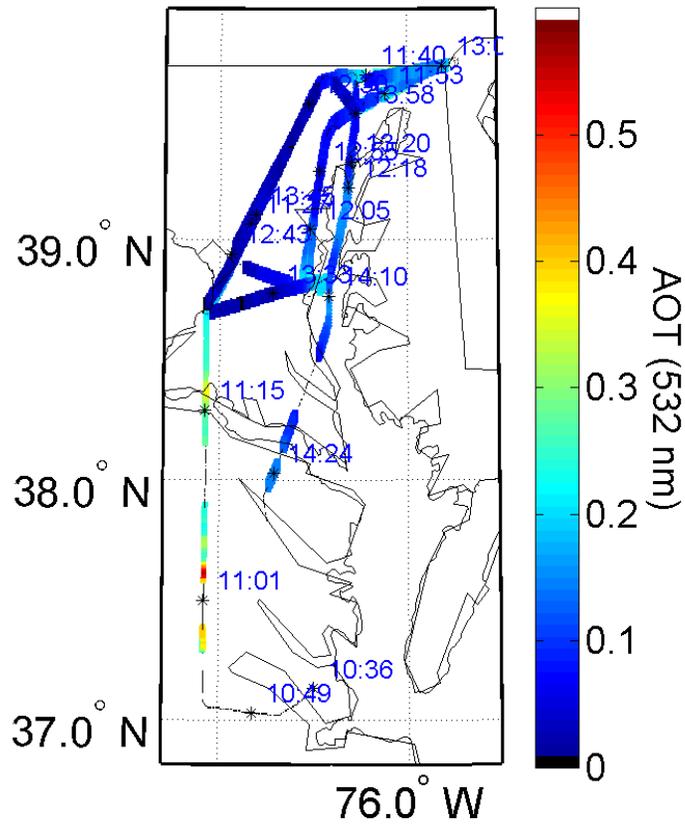
DURATION: 4.0 hours

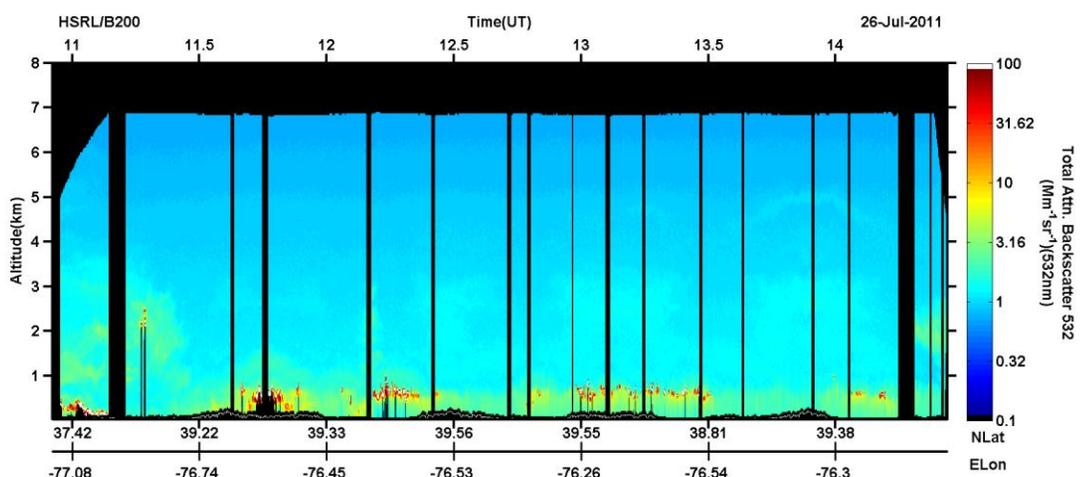
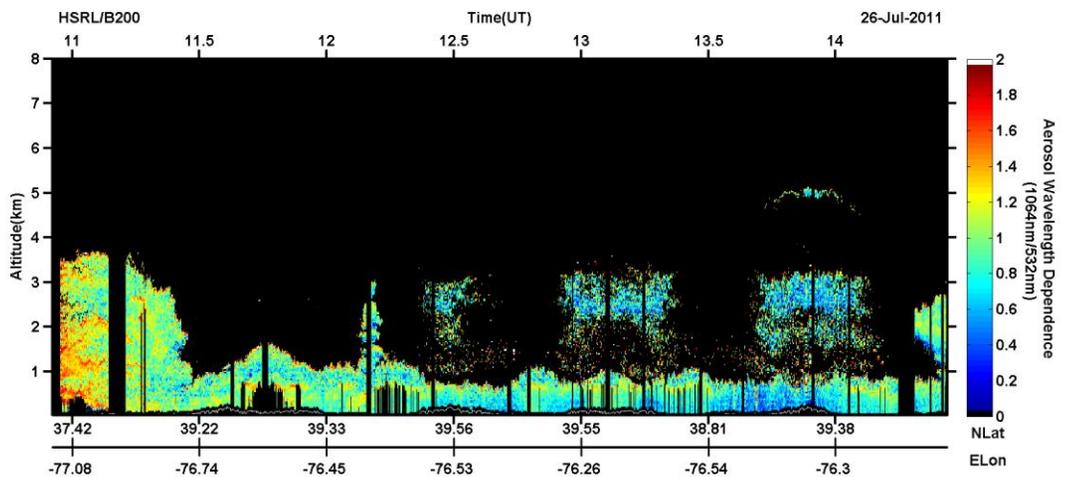
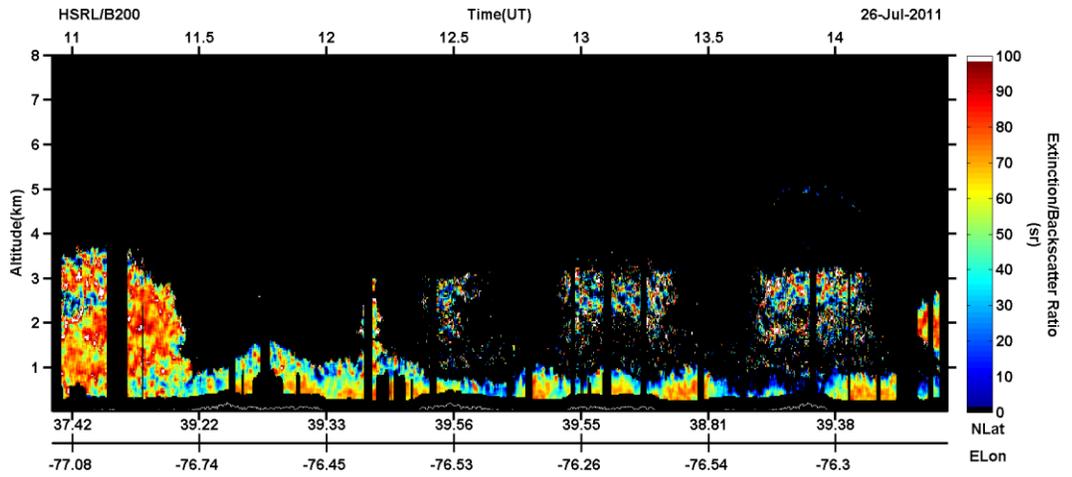
SUMMARY: Takeoff was at about 6:30 AM local time from Newport News, VA. The flight displayed a relatively compact boundary layer with some areas of localized enhanced backscatter with mostly clearer air above. Clouds and the boundary layer were generally at or below 1 km. HSRL operation was nominal.

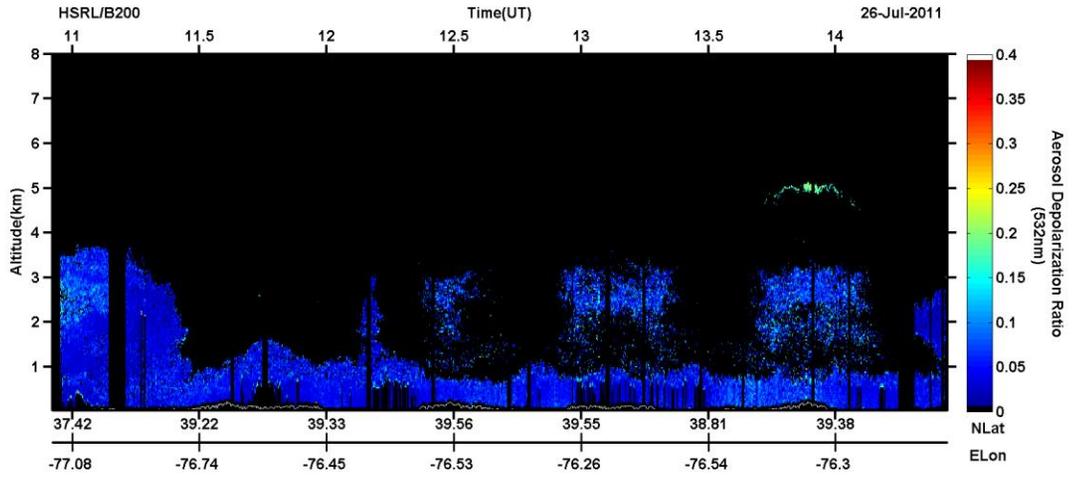
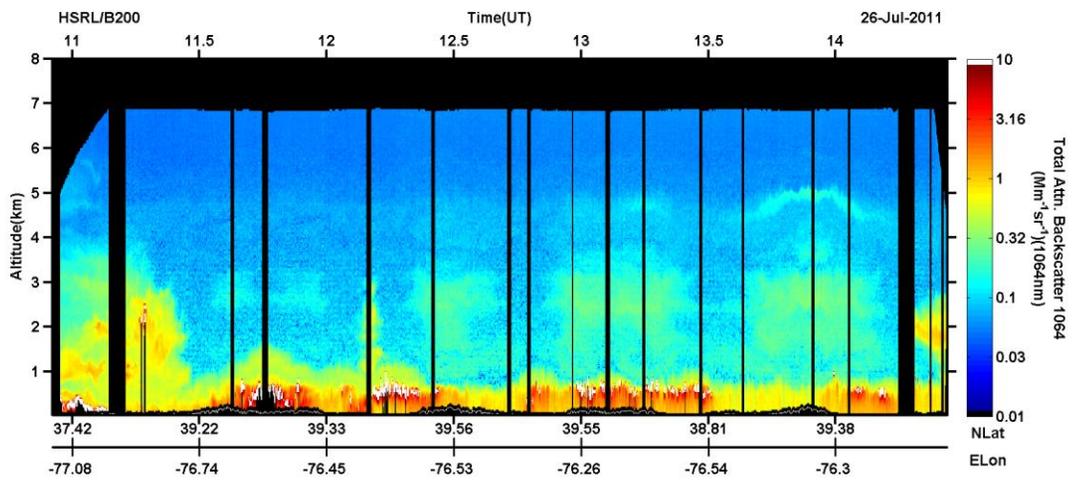
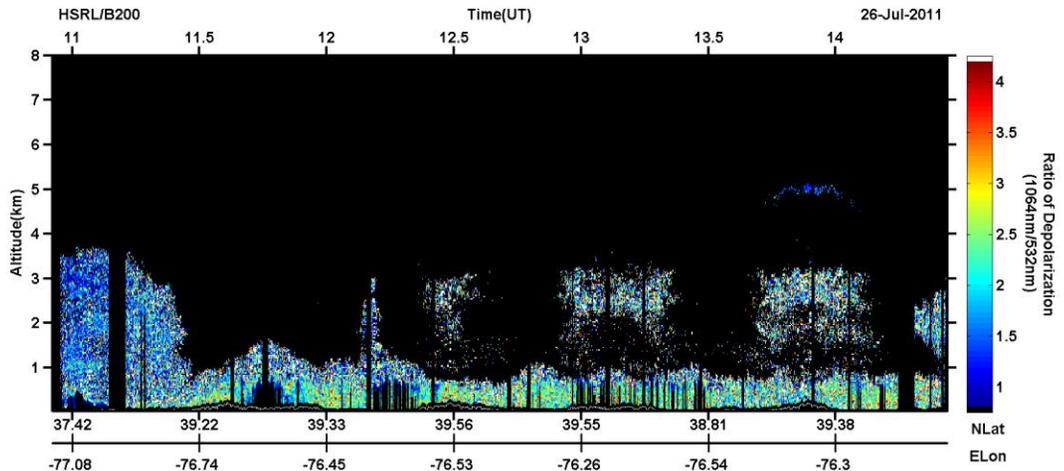
SUMMARY PLOTS:

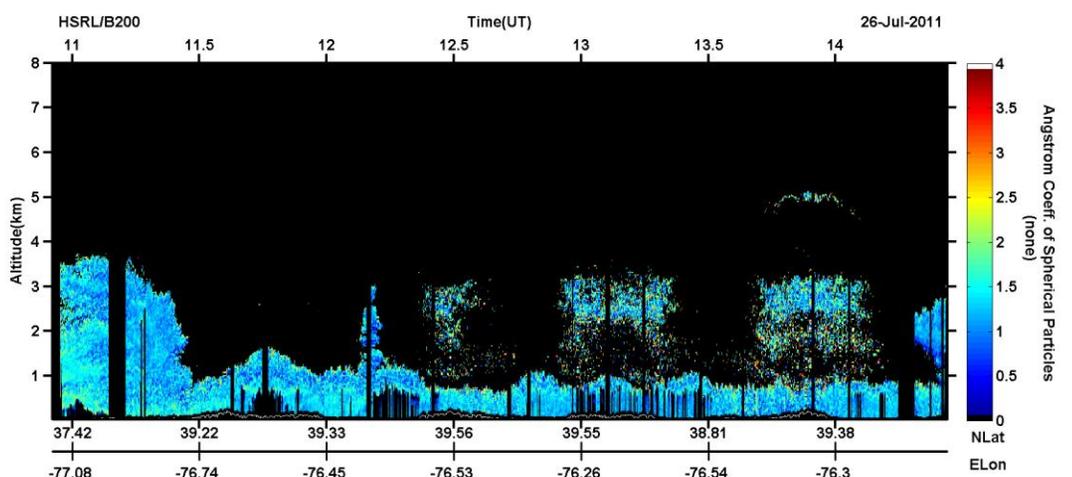
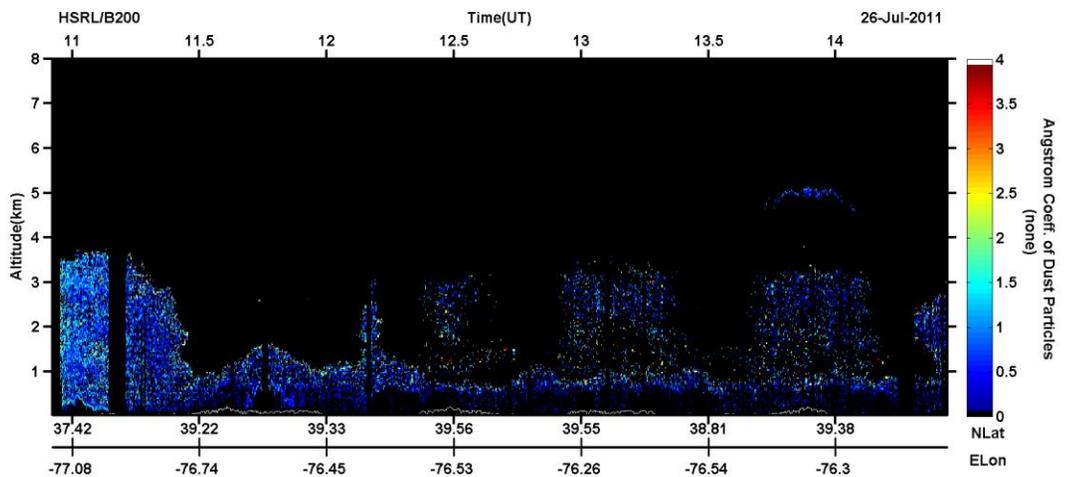
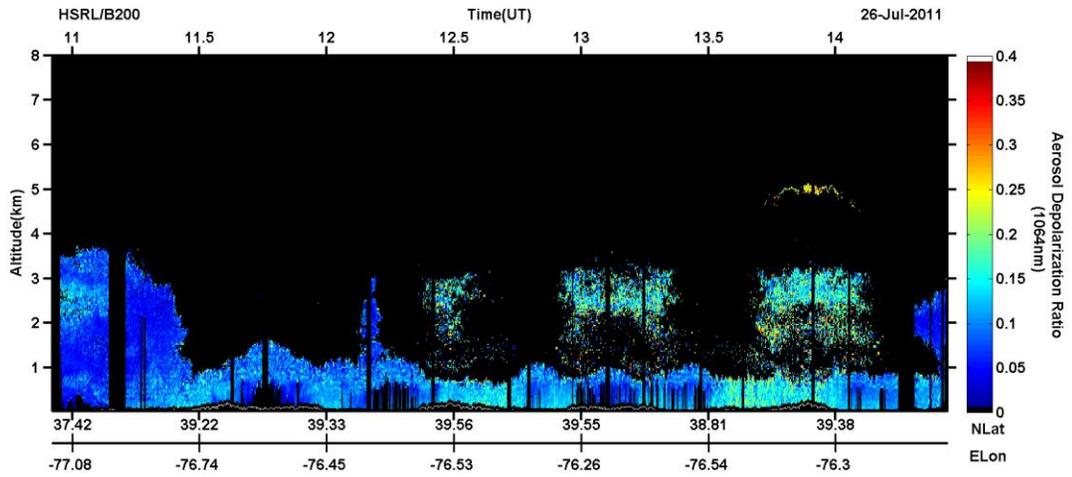


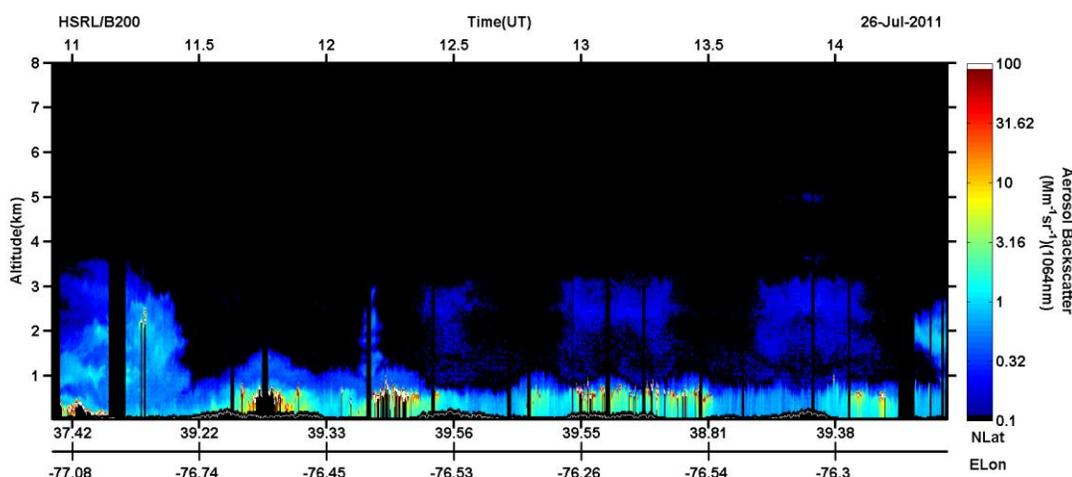
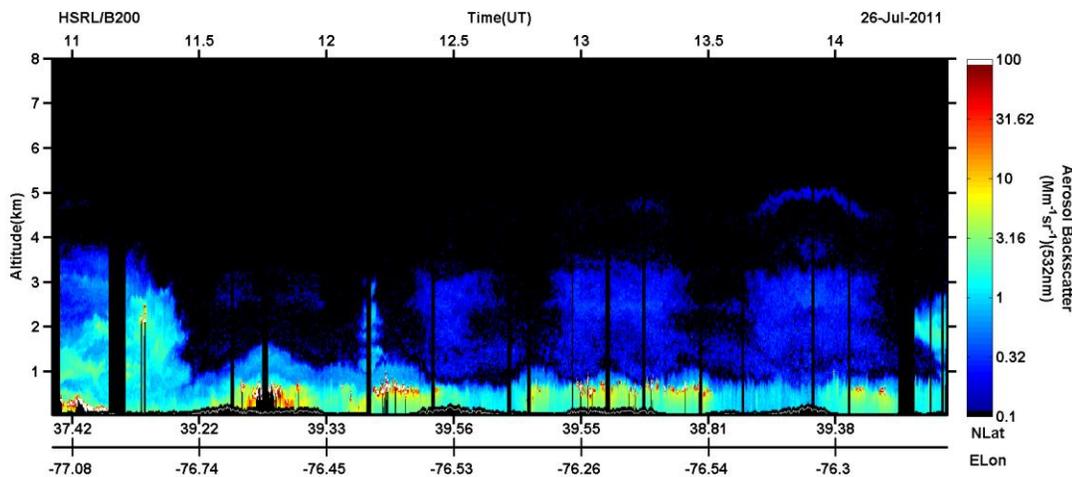
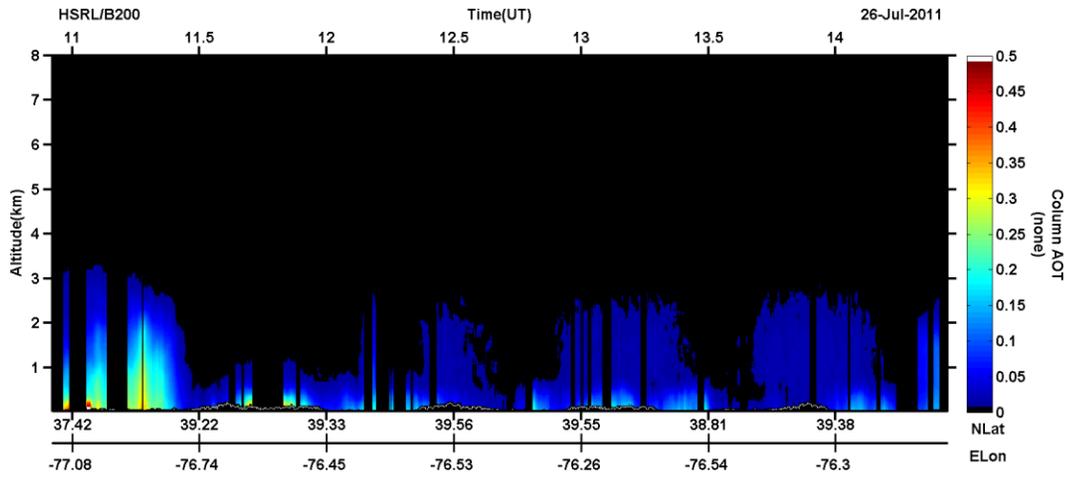
NASA Langley HSRL/B200 26-Jul-2011

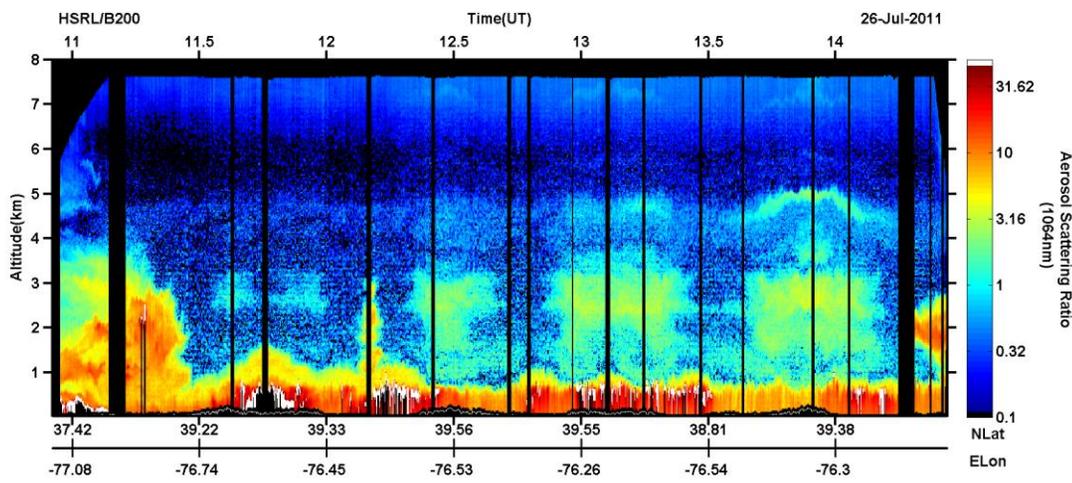
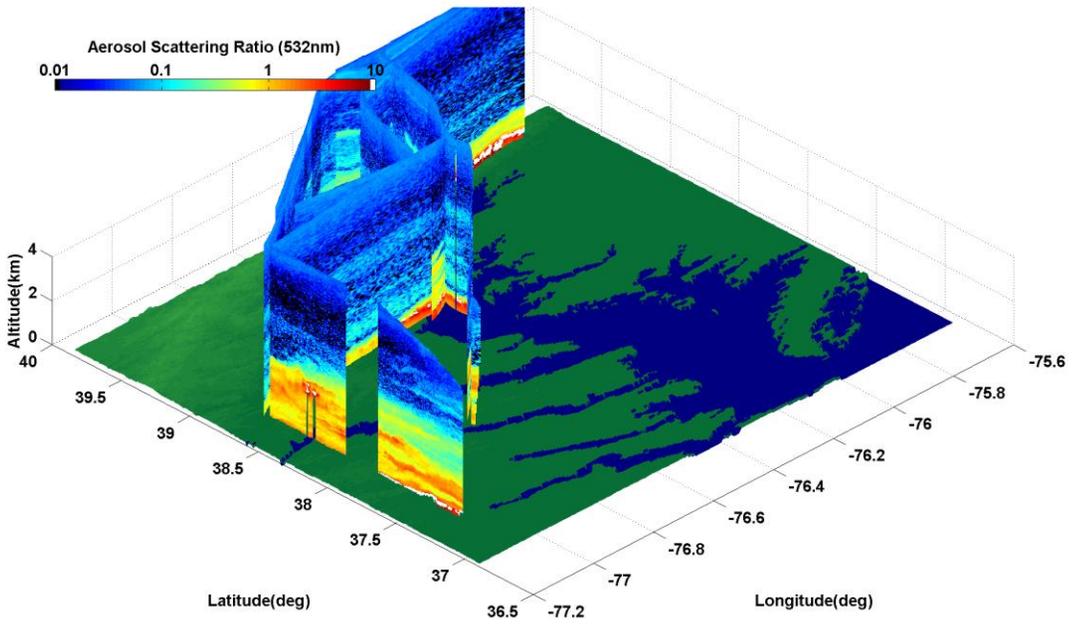
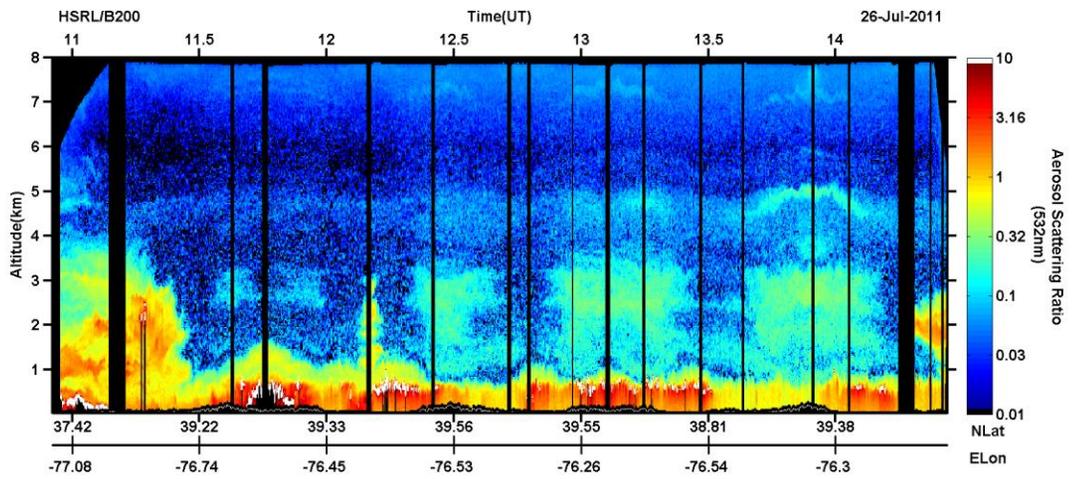


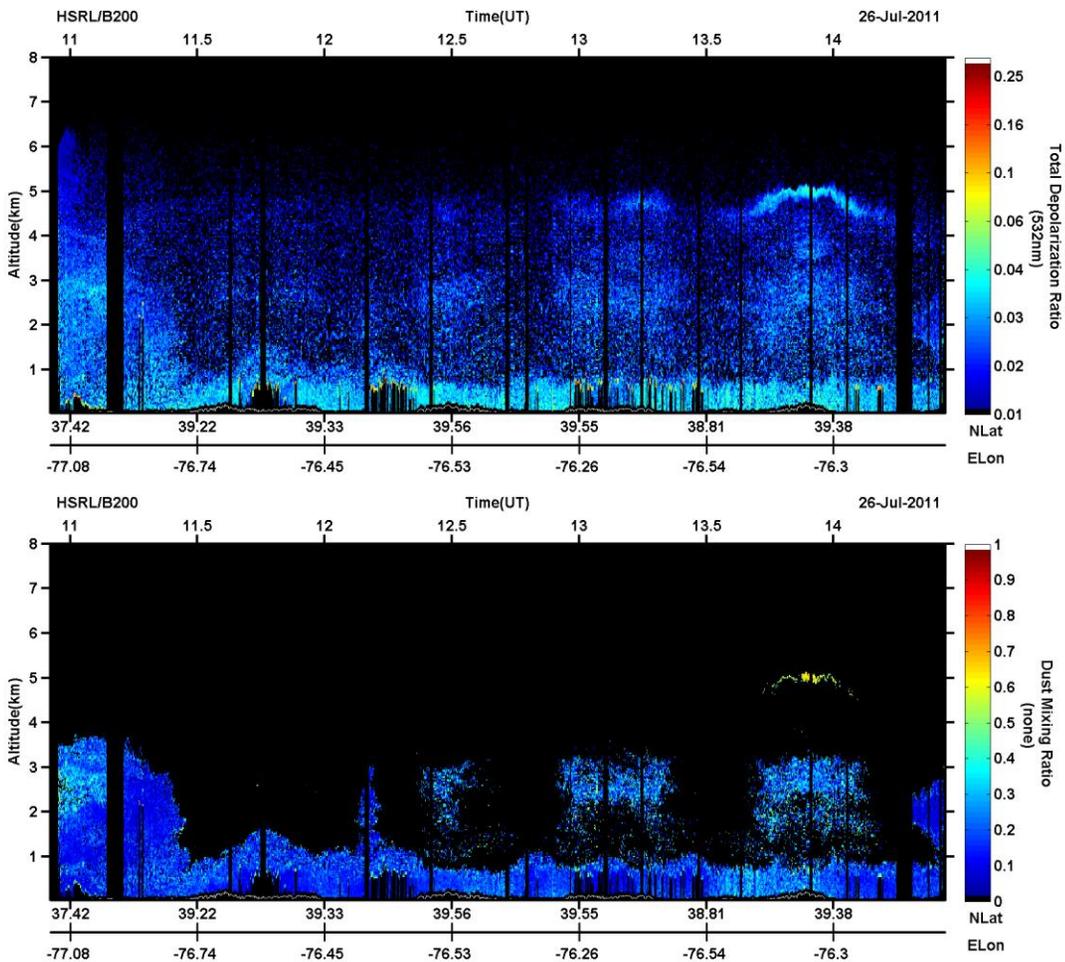












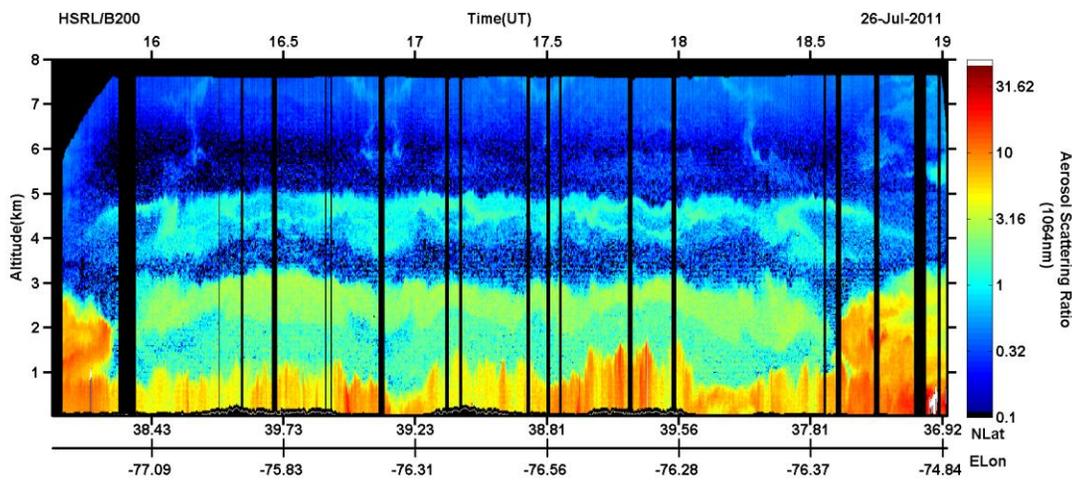
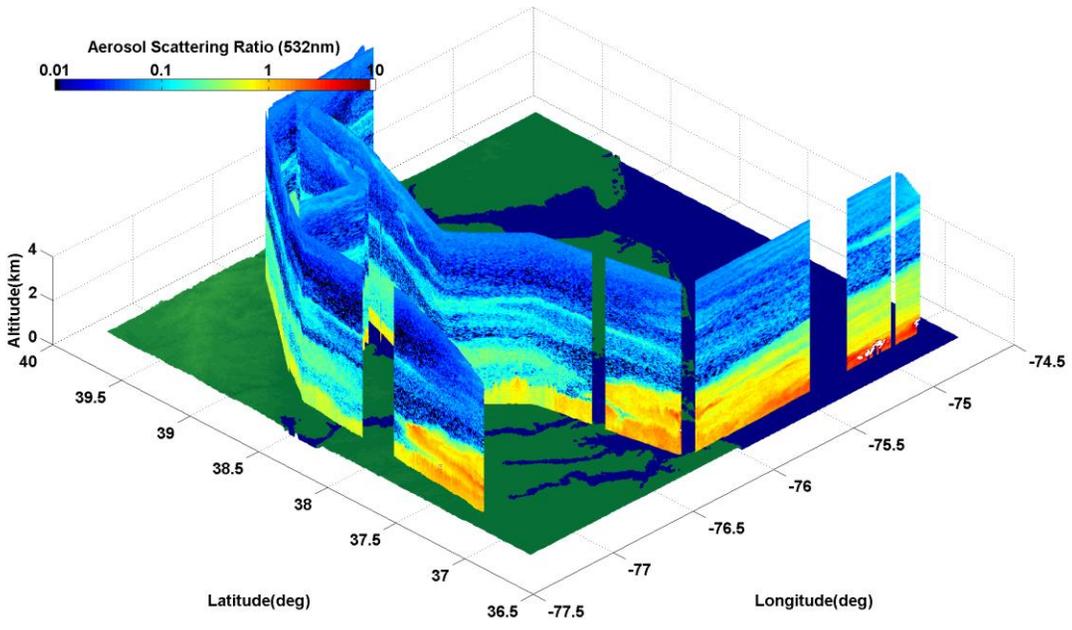
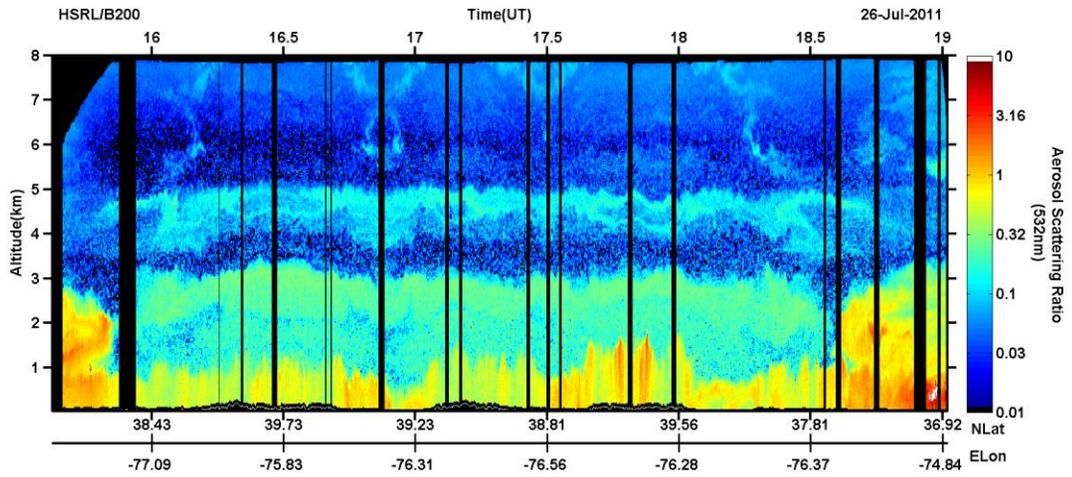
FLIGHT: Afternoon science flight (2 of 2)

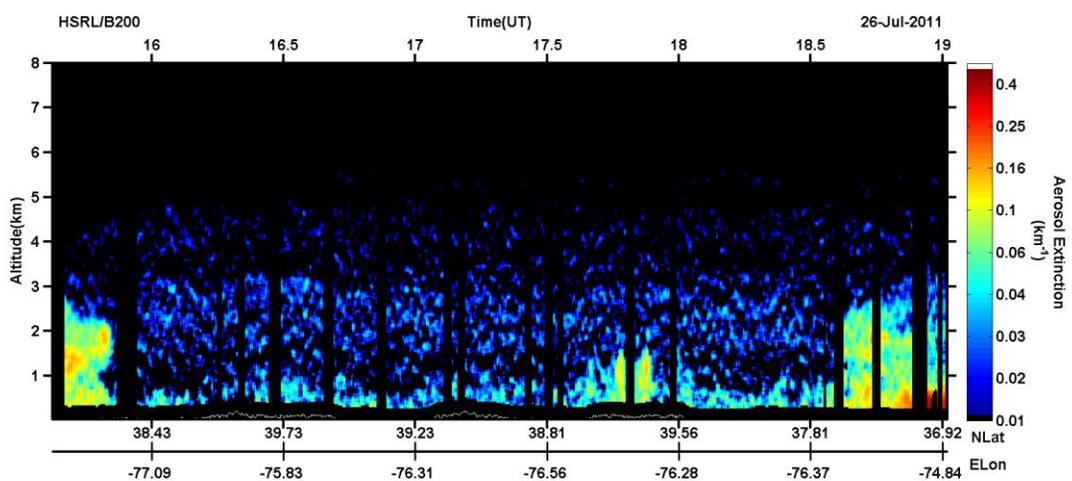
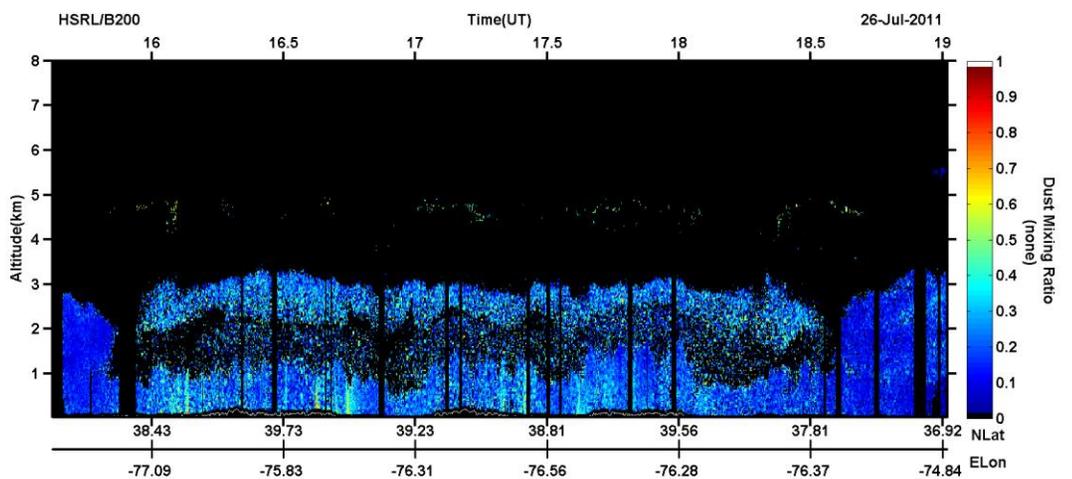
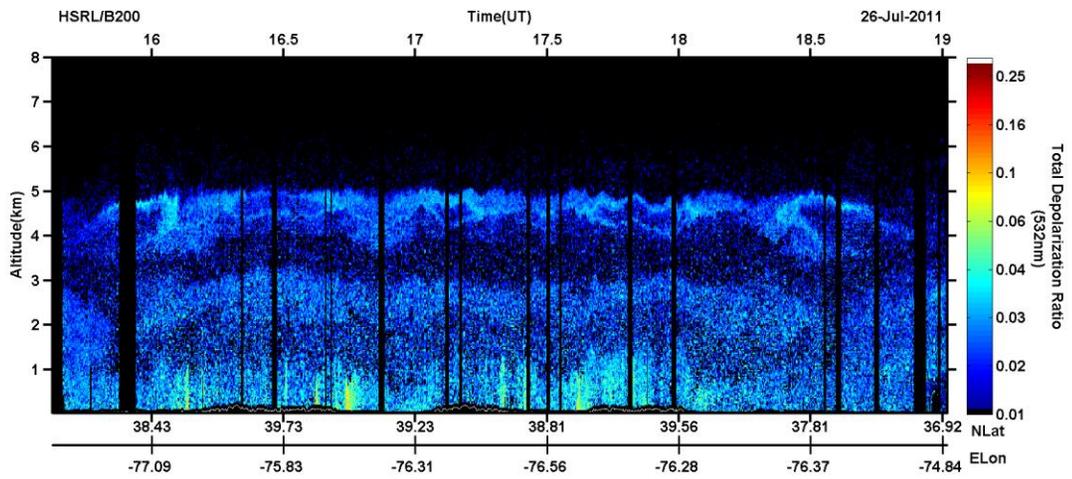
DATE: July 26, 2011

DURATION: 4.1 hours

SUMMARY: The afternoon takeoff was at about 11:30 AM local time from Newport News, VA. The afternoon flight showed a growing and more mixed boundary layer compared with the morning flight. Other aerosol layers with less backscatter formed over the boundary layer at altitudes up to 3 km and at about 5 km. Fewer clouds were present in the area compared with the morning flight. The flight was called off early and an overpass of the COVE AERONET site east of Norfolk, VA, was performed.

SUMMARY PLOTS:





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