

DISCOVER-AQ

HSRL Data Summary

FLIGHT: Morning science flight (1 of 2)

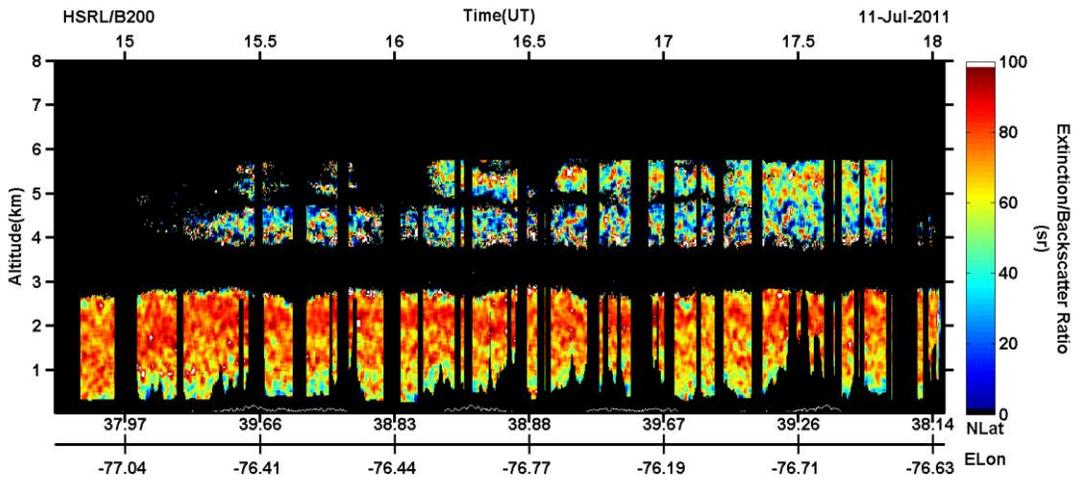
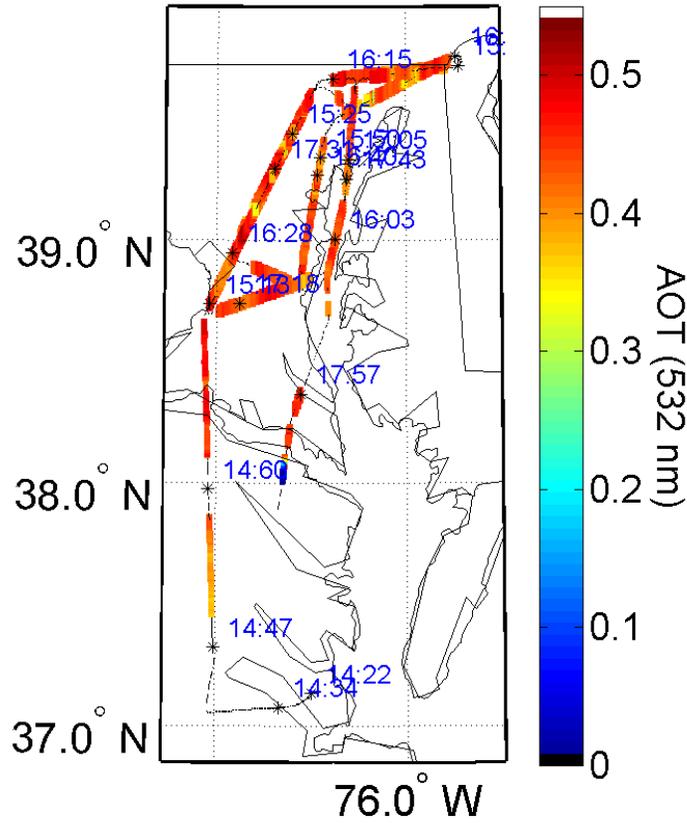
DATE: July 11, 2011

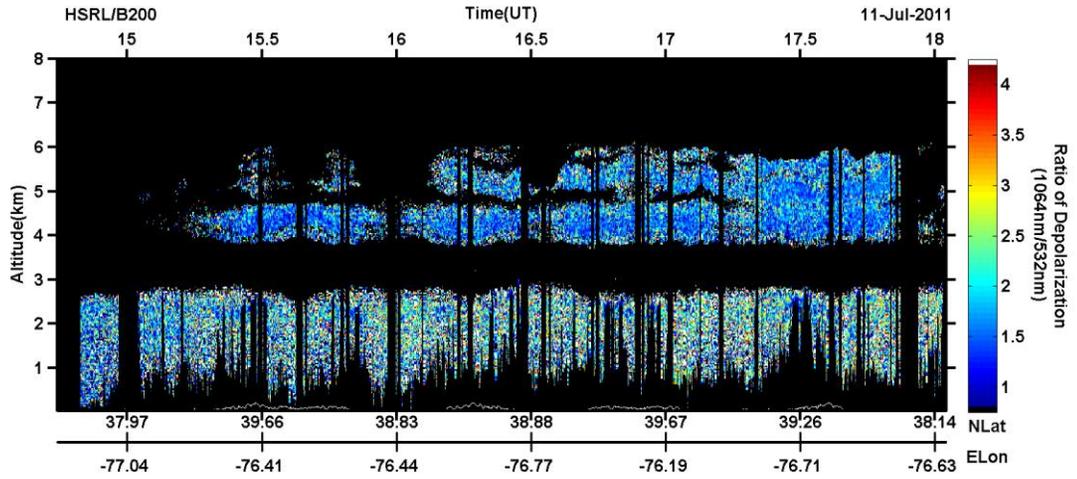
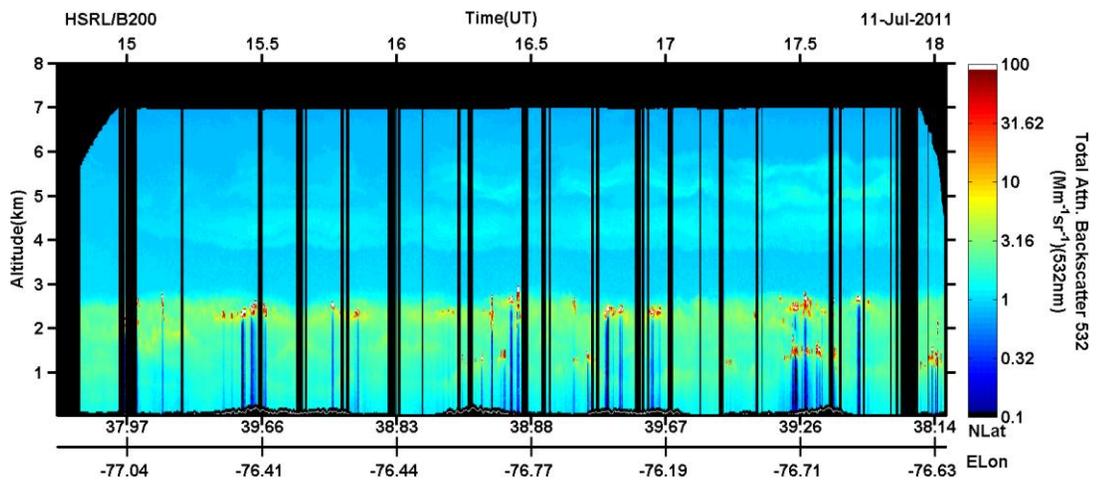
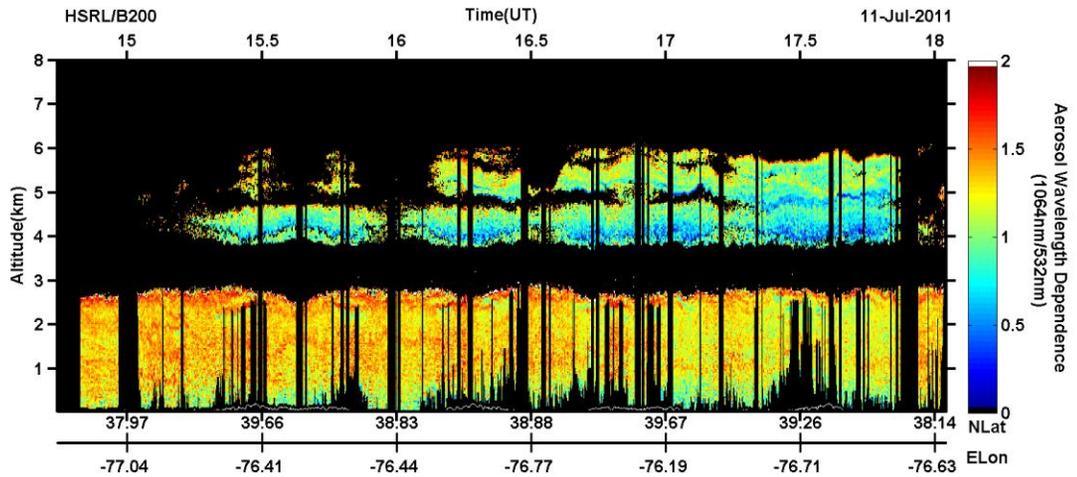
DURATION: 3.8 hours

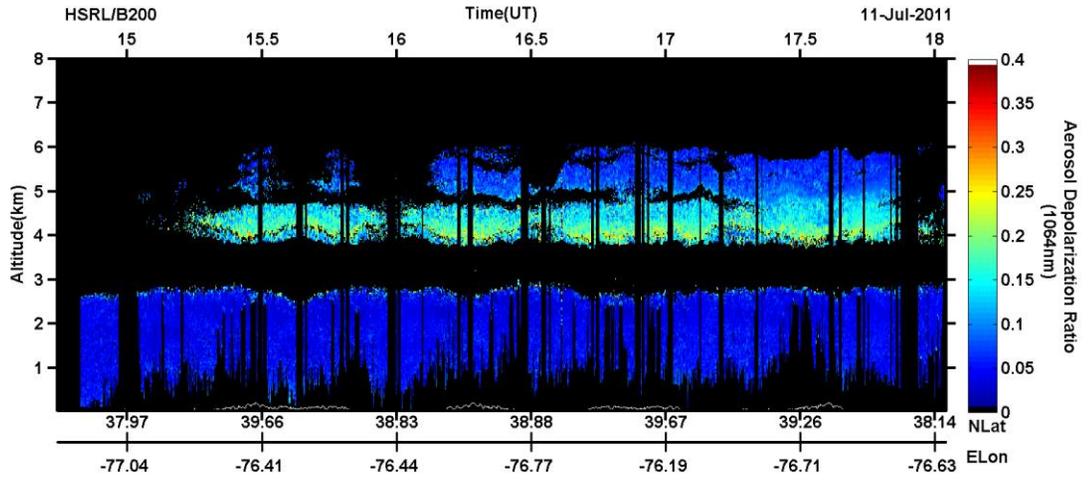
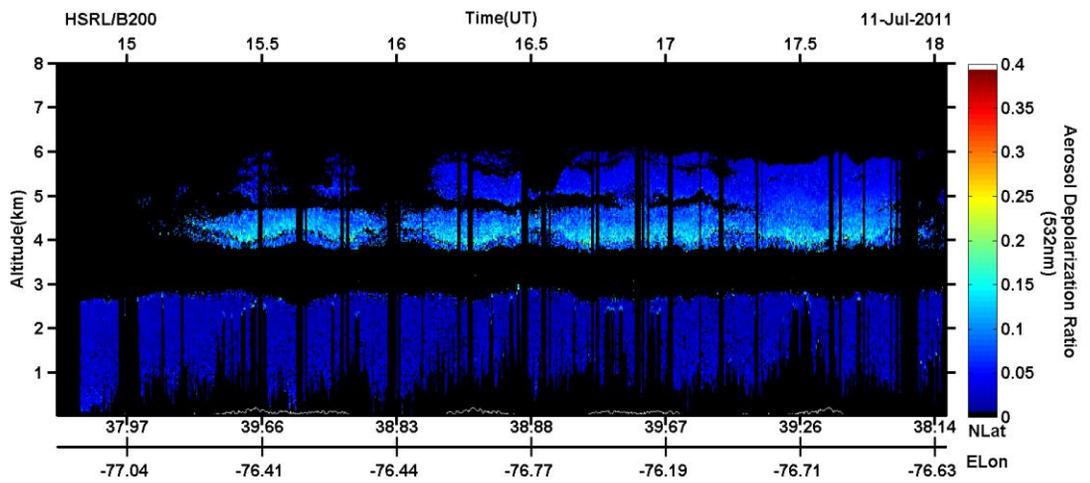
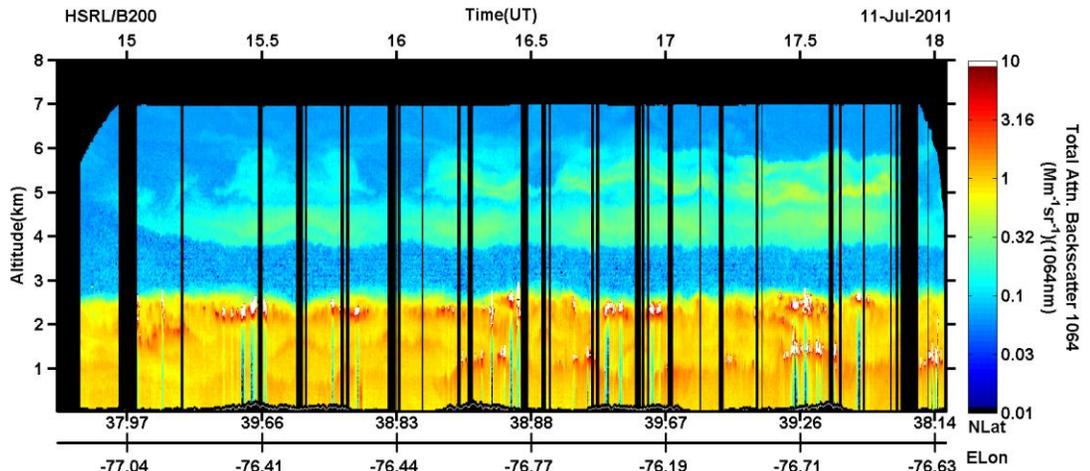
SUMMARY: Takeoff was at 10:30 AM local time from Newport News, VA. Aerosol levels were enhanced relative to previous DISCOVER-AQ flights (AOT \sim 0.5) and a layer of thin aerosol was aloft above the boundary layer. We followed the standard flight plan. P-3 coincidence was limited during this flight due to an instrument problem delaying the P-3 takeoff until about 1:30 PM local. We possibly had coincidence with a research vessel in the Chesapeake Bay. HSRL operation was nominal.

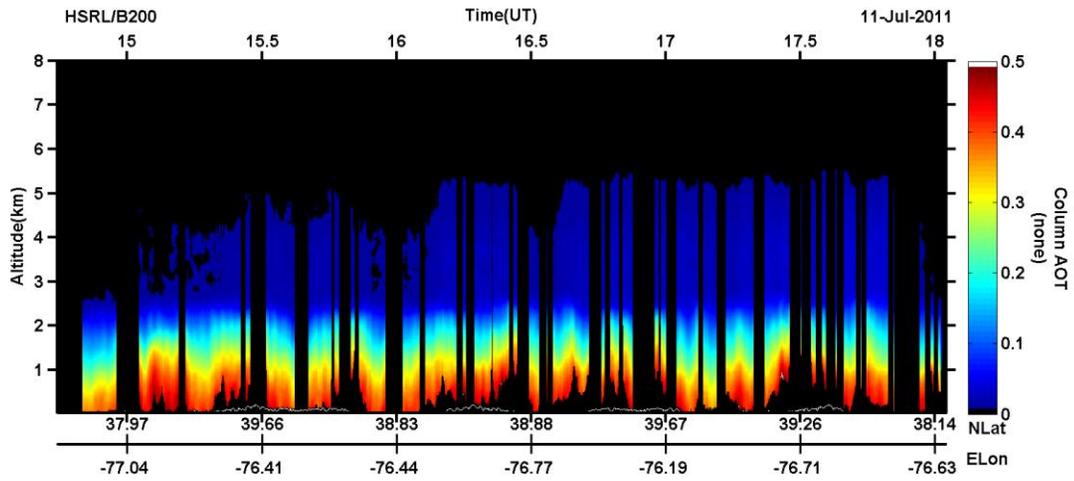
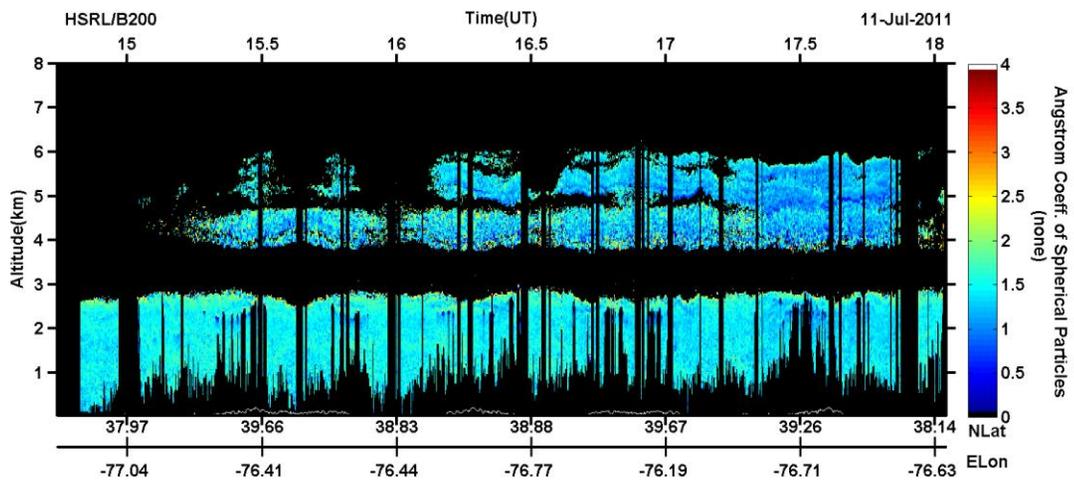
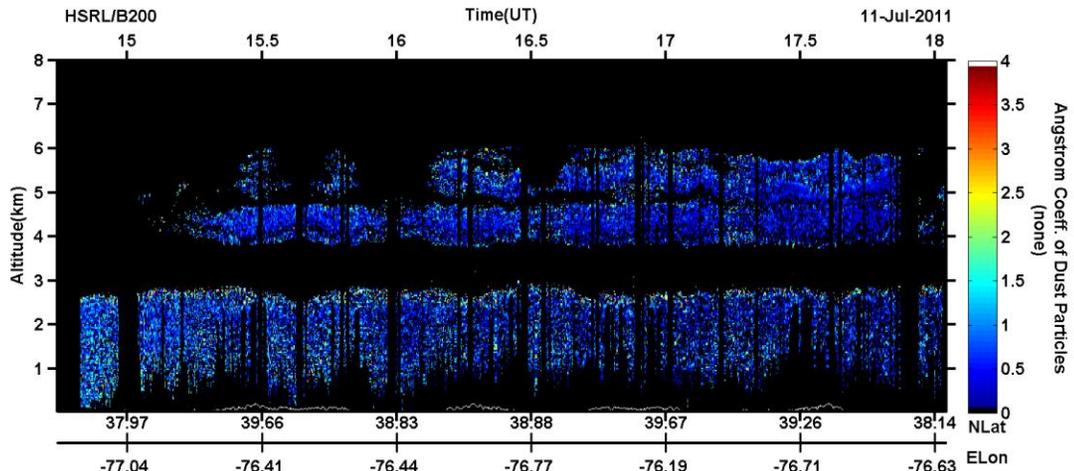
SUMMARY PLOTS:

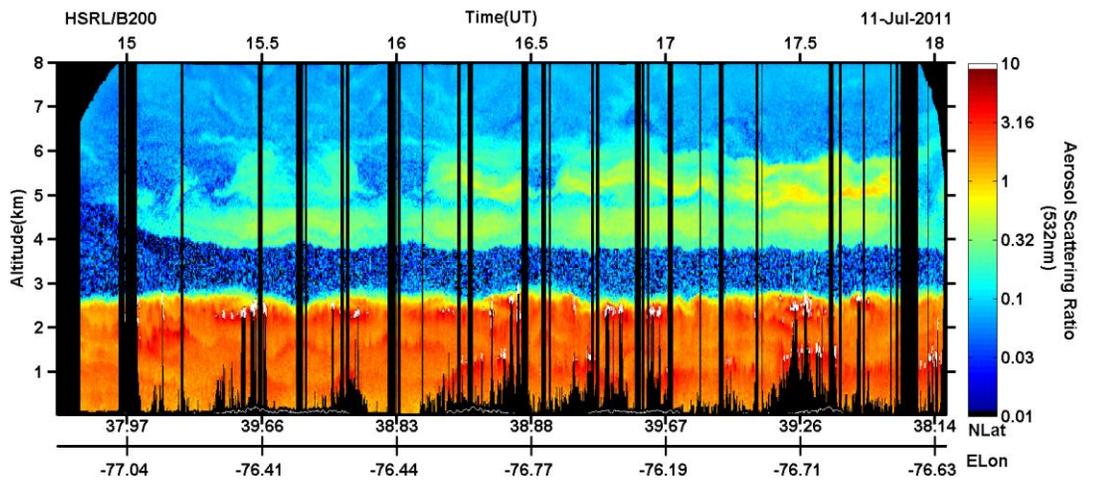
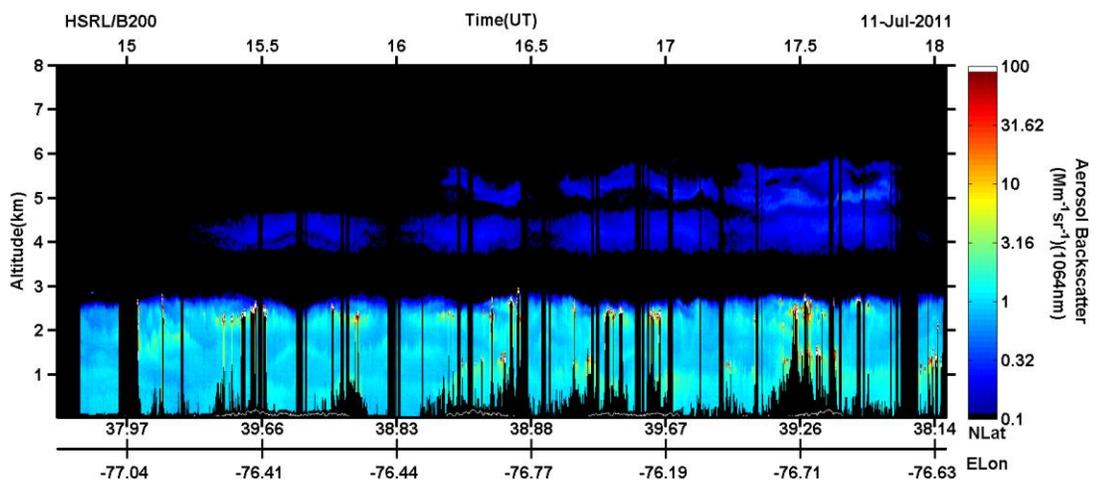
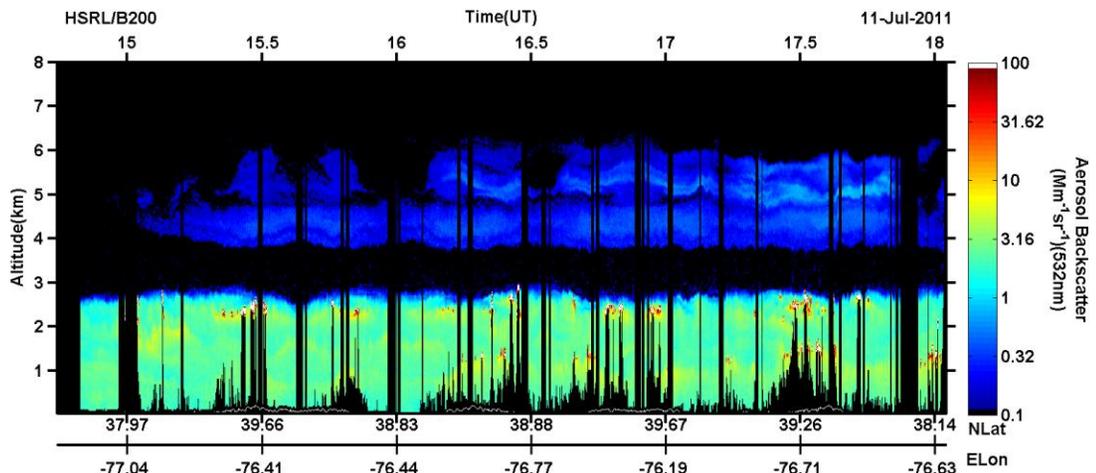
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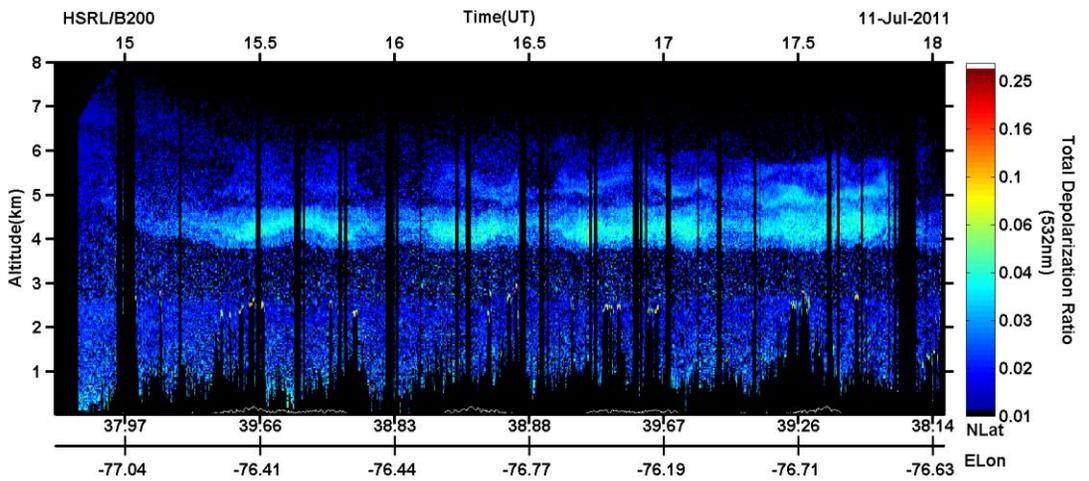
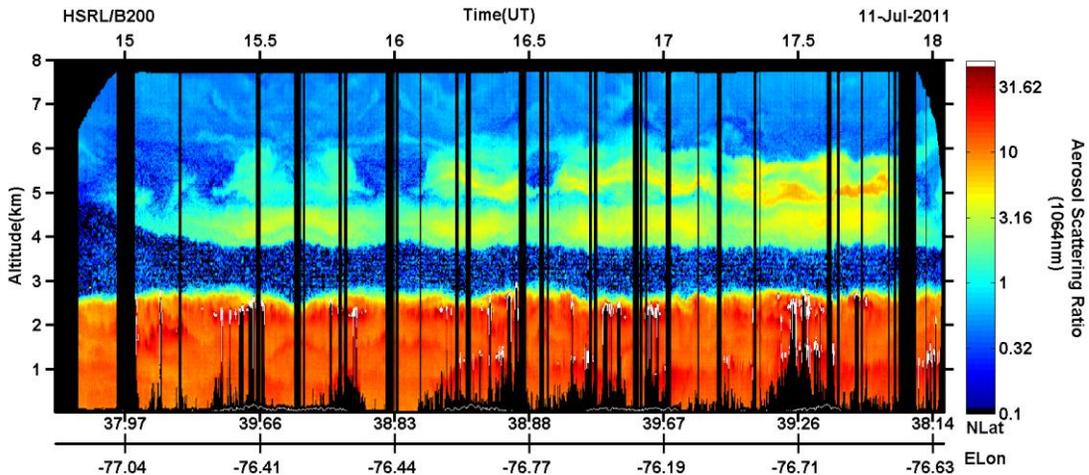
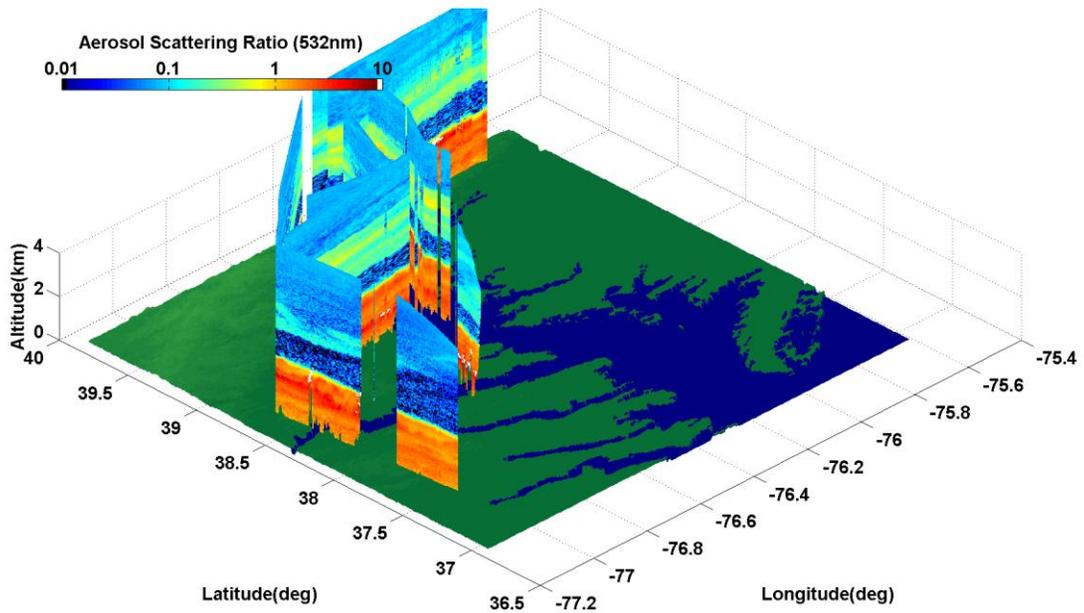


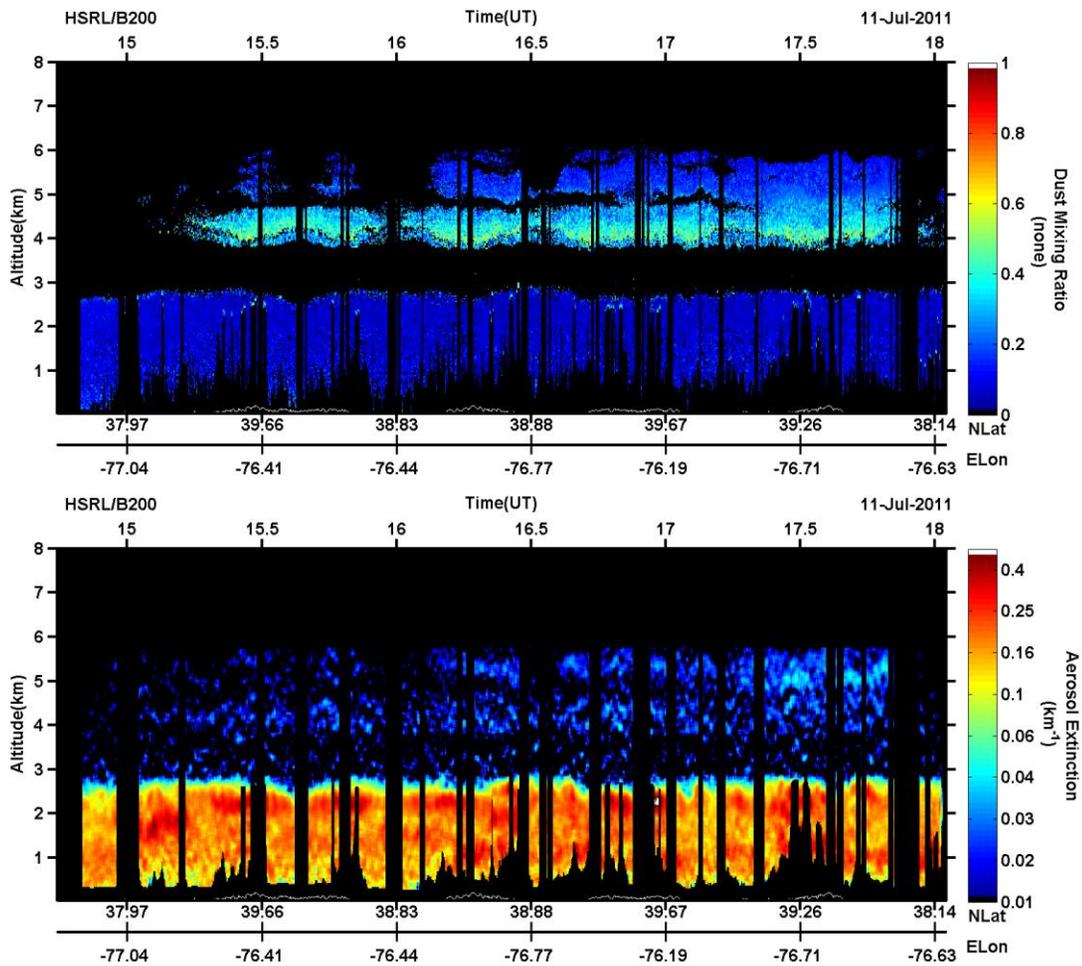












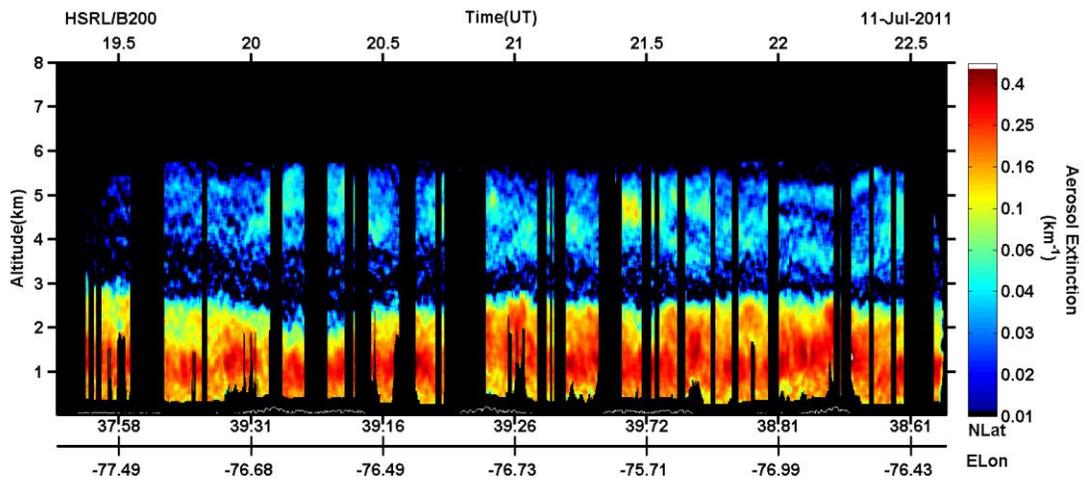
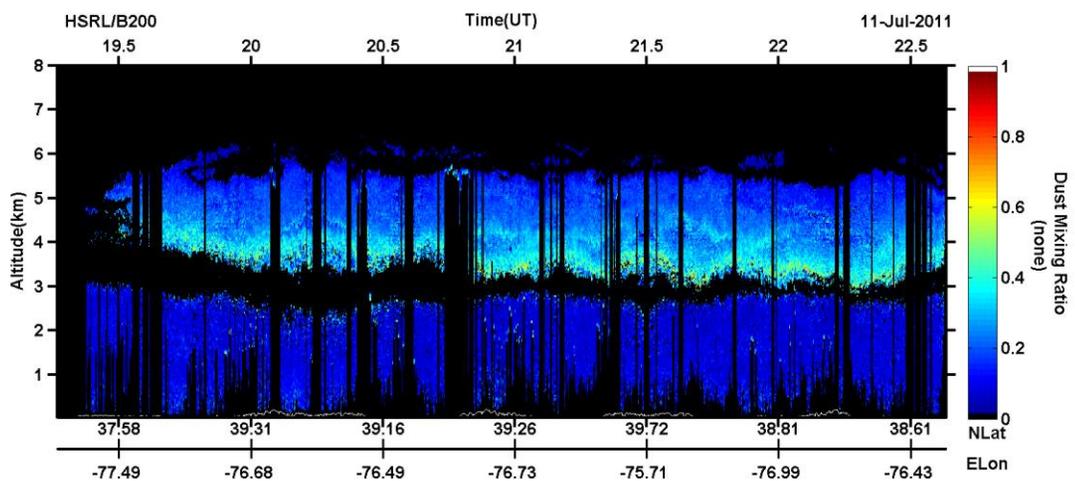
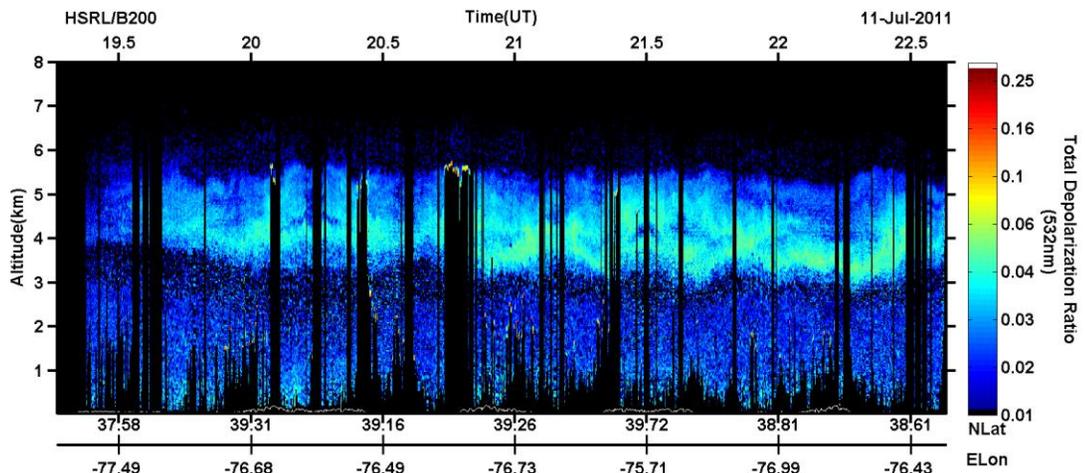
FLIGHT: Afternoon science flight (2 of 2)

DATE: July 11, 2011

DURATION: 3.9 hours

SUMMARY: The afternoon flight showed more cloud cover than the morning flight. We again possibly had coincidence with a research vessel in the Chesapeake Bay. The aerosol loading in the boundary layer was heavy and the aerosol layer lofted over the boundary layer was still present.

SUMMARY PLOTS:



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