

DISCOVER-AQ
HSRL Data Summary

FLIGHT: Morning science flight (1 of 2)

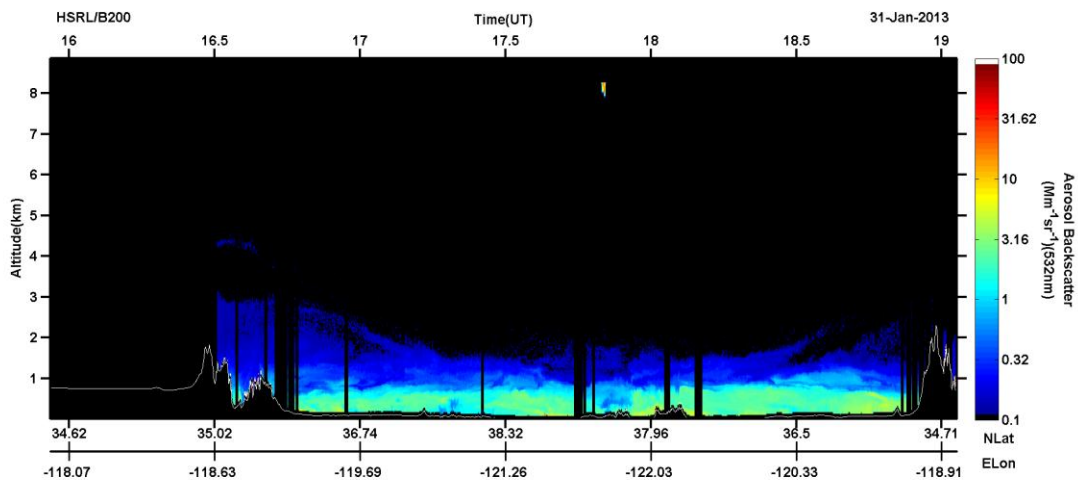
DATE: Jan 31 2013

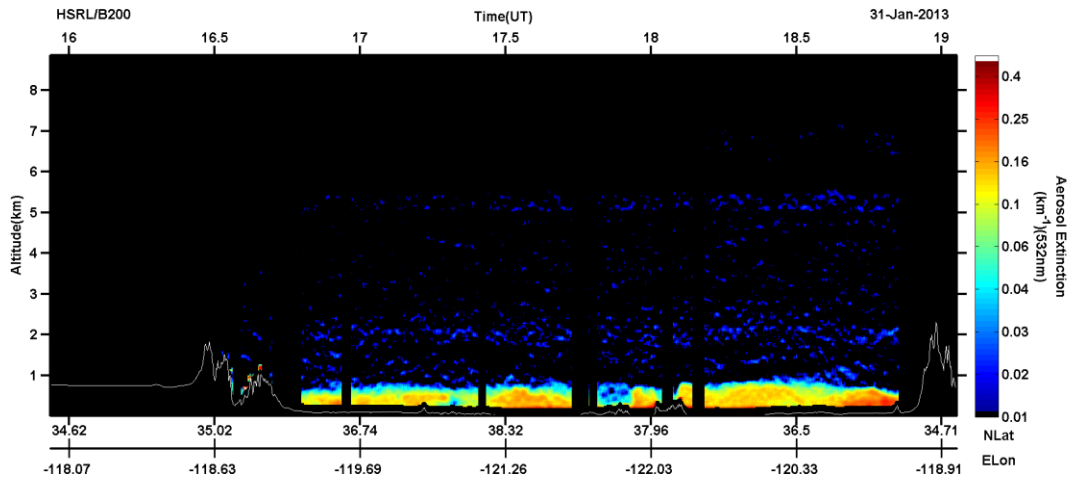
DURATION: 2.9 hours

SUMMARY:

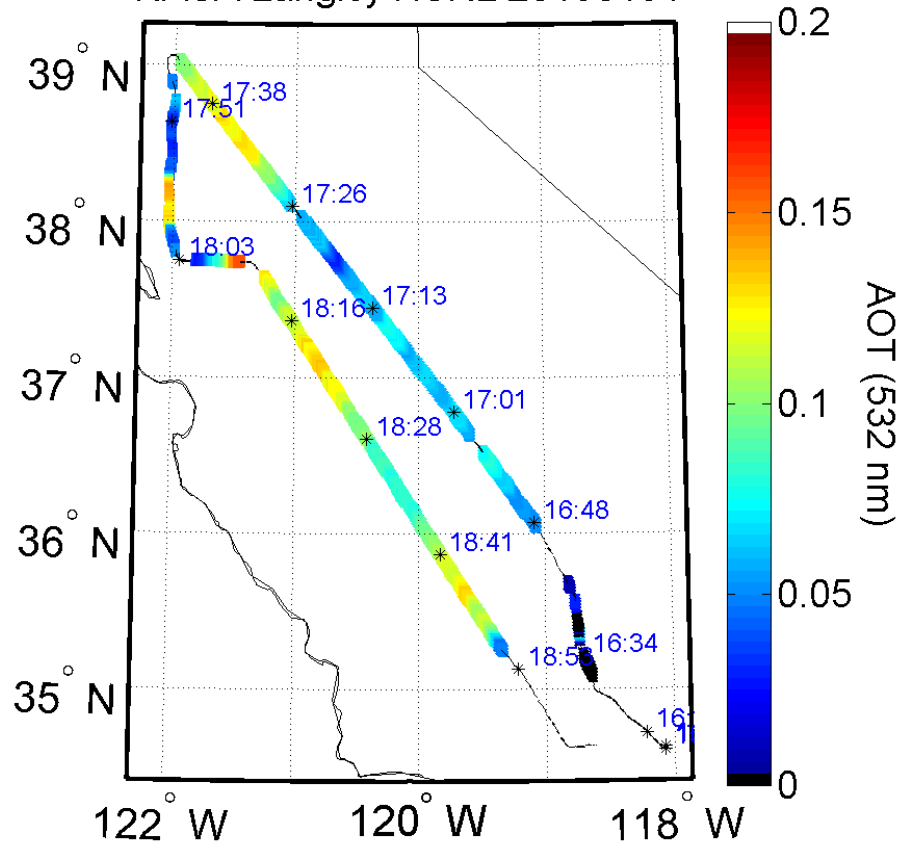
New pattern to fly to the north end of the SJV for the San Francisco Air Quality Board. Instrument operated nominally. Perfect flight reported by operator. AOT higher on W side of valley and at northern-most segment of leg on E side of valley.

SUMMARY PLOTS:





NASA Langley HSRL 20130131



HSRL2 Flight Notes

Date: 1/31/2013

Flight # 1

- Takeoff - 16:15UTC
- Perfect flight!!!!
- INTF in sever tilt for descent at 19:00UTC.

FLIGHT: Morning science flight (2 of 2)

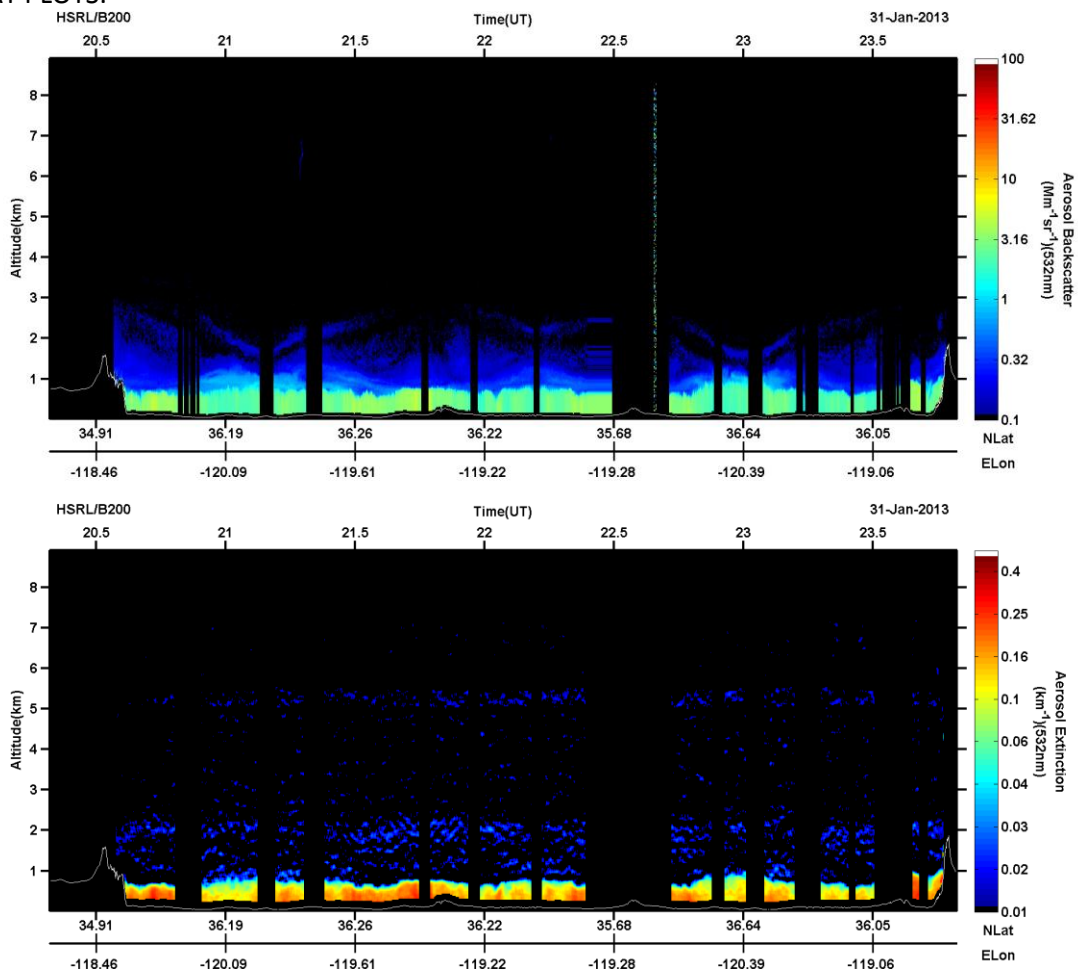
DATE: Jan 31 2013

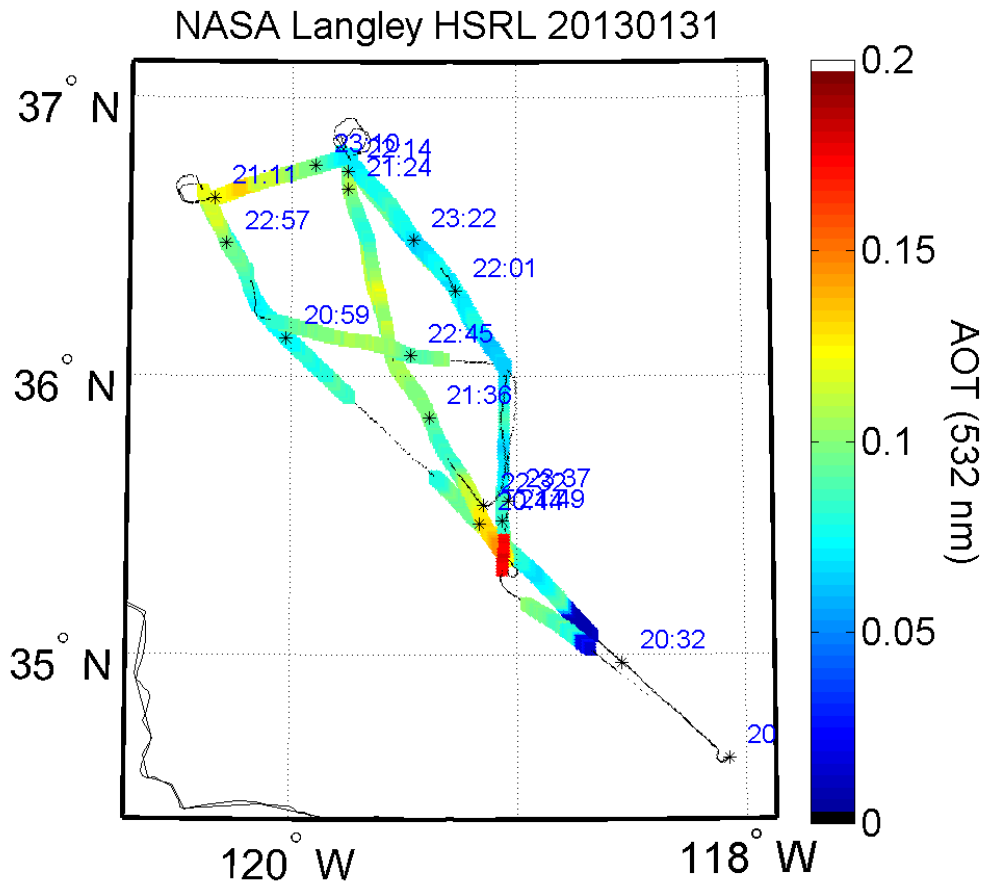
DURATION: 3.7 hours

SUMMARY:

Standard DAQ pattern over the SJV. Instrument operated mostly nominally. Problem with aircraft power distribution caused shutdown of instrument at 22:25 UT. As a result, missed acquisition of data for one of the Portersville and Bakersfield overflights.

SUMMARY PLOTS:





HSRL2 Flight Notes

Date: 1/31/2013

Flight # 2

- Takeoff: 20:20UTC.
- Manually adjusted 355nm Analyzer to minimize 355nm Perp signal before I performed calibrations.
- Load shed at 22:25pm - HSRL2 Data File when load shed occurred = "20130131_172332.dat" - note that this file will not have closed properly and the number of records indicated in the beginning of the file will be incorrect. - This file should be ignored for post processing and only kept for engineering purposes.
- Missed Bakersfield and Porterville ground sights due to power-up process from load shed
- INTF in severe tilt for descent at 23:44UTC.