Supplementary information

To article:

The characterization of long-range transported California biomass burning plumes: what can a multi-wavelength Mie-Raman-polarization-fluorescence lidar provide?

By Qiaoyun Hu et.al.

- Figure S1. UVAI (UV aerosol index) measured by OMPS instruments.
- Figure S2: Observations of CALIPSO on 07 September 2020.
- Figure S3: Observations of CALIPSO on 10 September 2020.

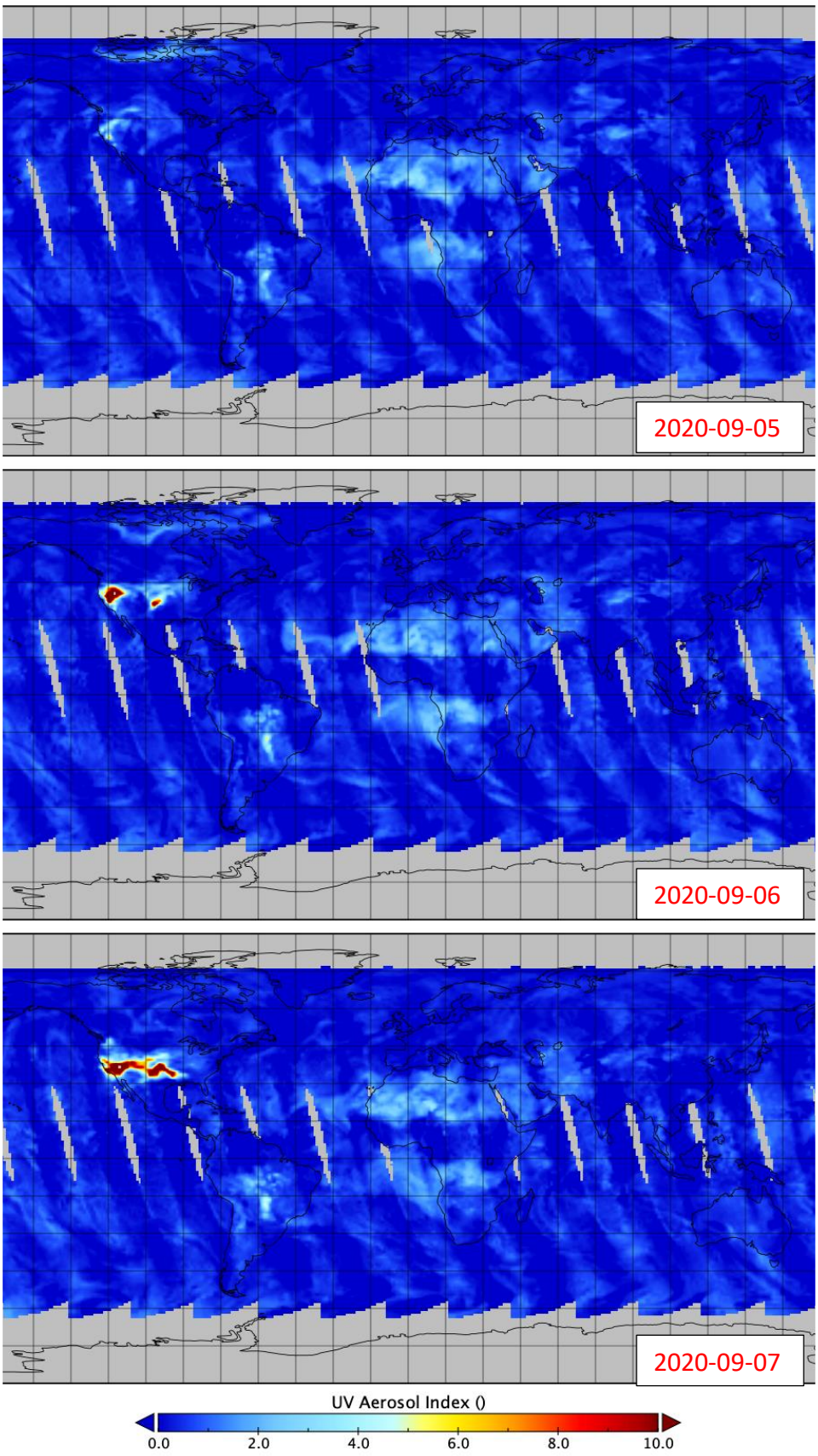


Figure S1: UVAI (UV aerosol index) measured by OMPS instruments.

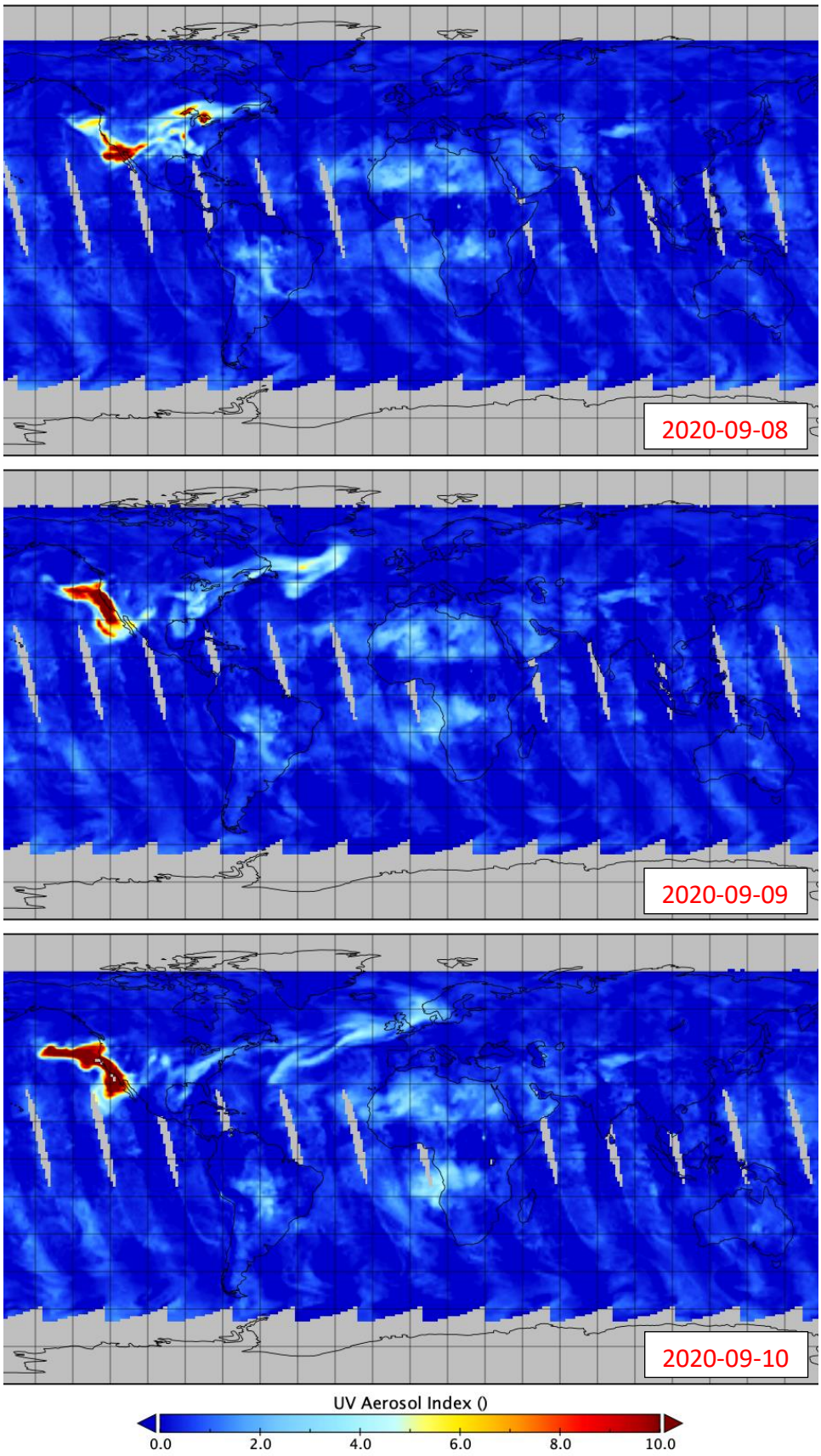
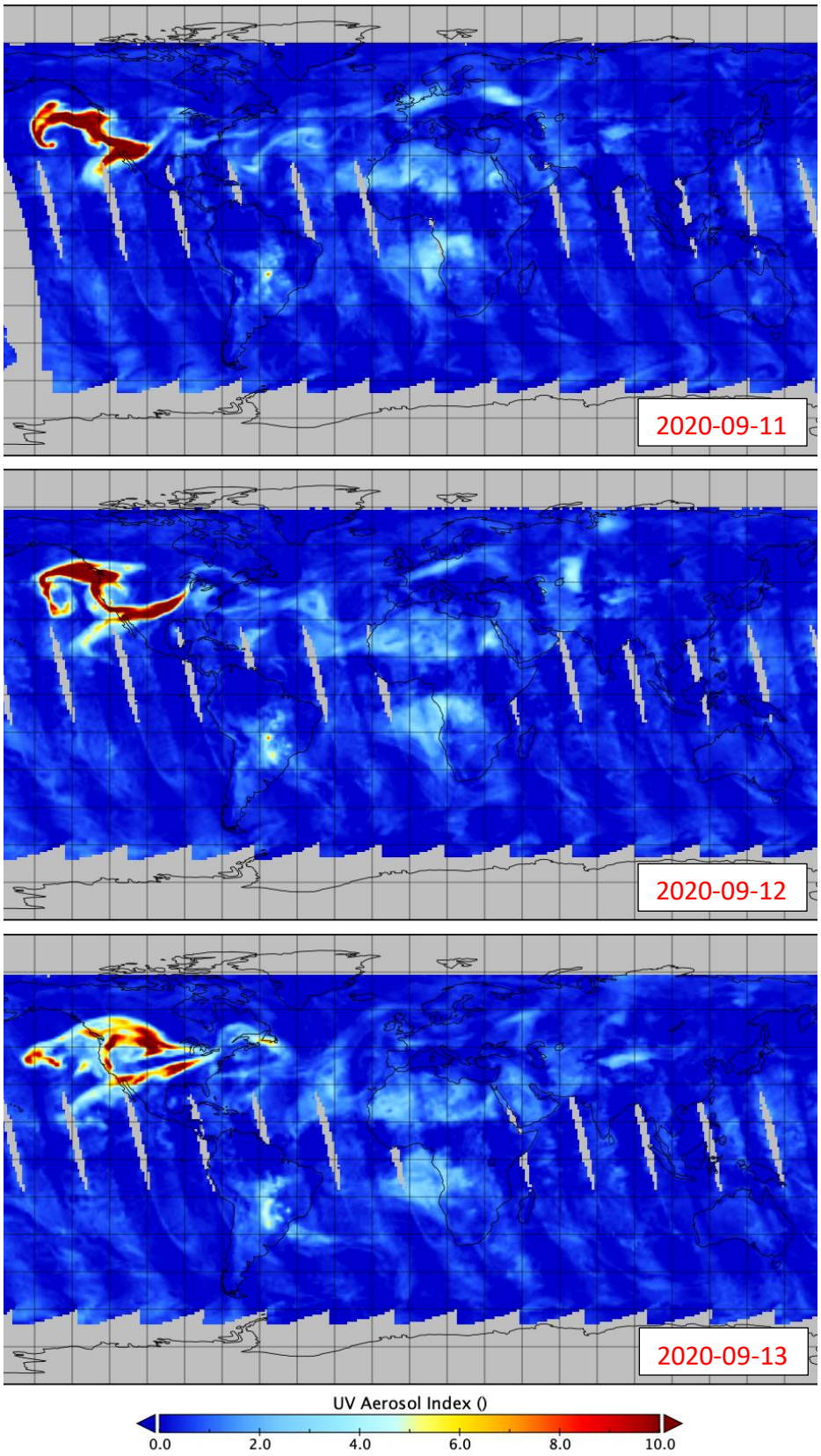


Figure S1: (Continued) UVAI (UV aerosol index) measured by OMPS instruments.



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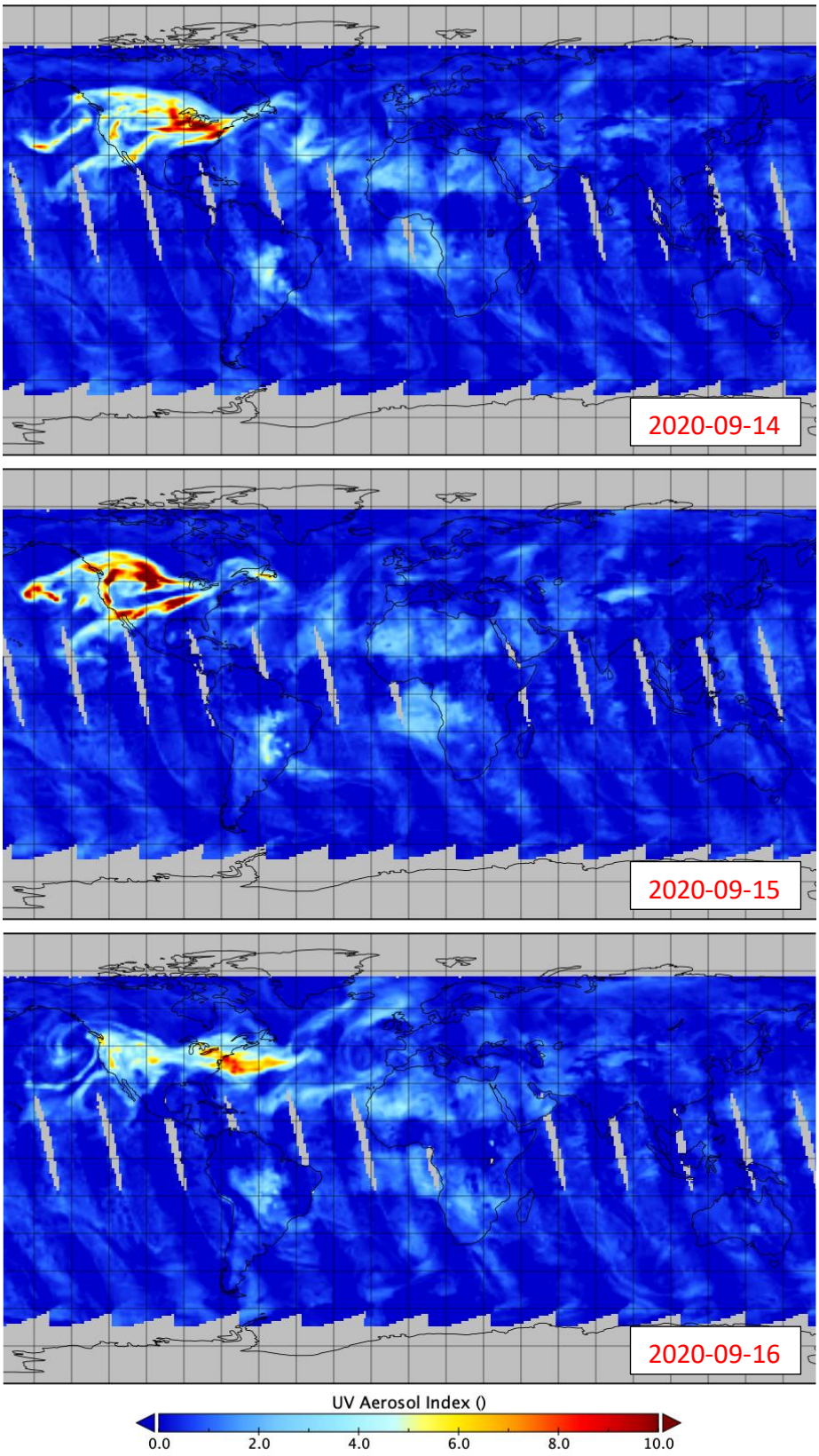

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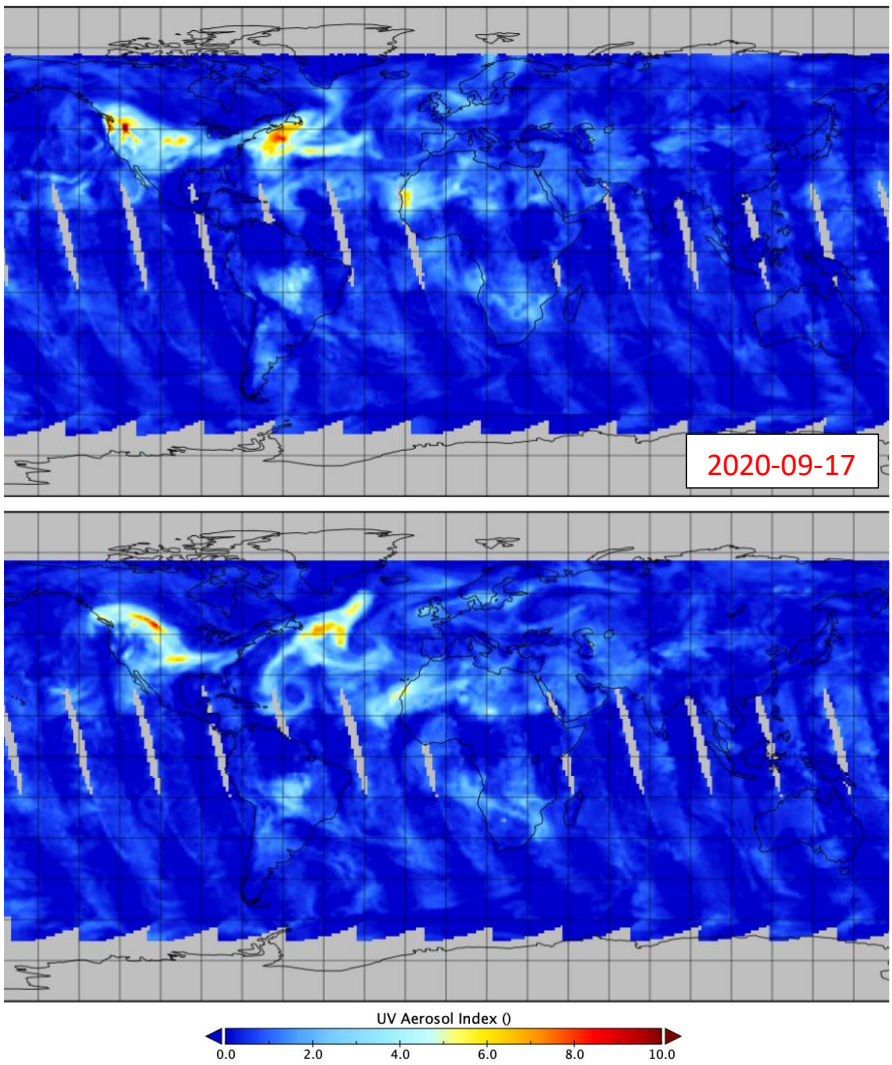

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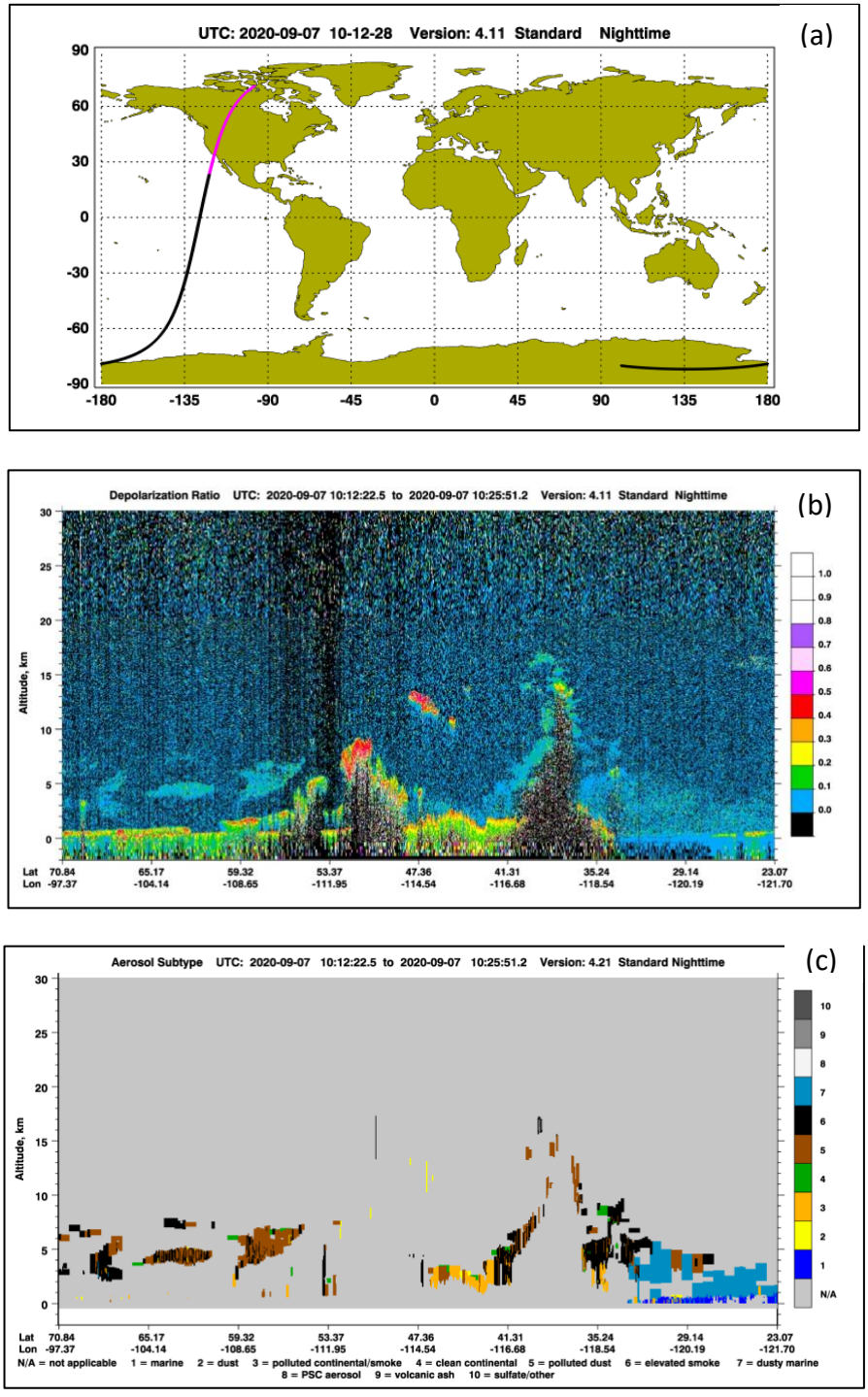

Figure S2: Observations of CALIPSO on 07 September 2020. (a) CALIPSO orbit track, (b) depolarization ratio at 532 nm, (c) aerosol subtype on 2020-09-07. A towering like pyro-cumulonimbus cloud with smoke from Creek fire was detected between (41.31N,116.68W) and (35.24N,118.54W)

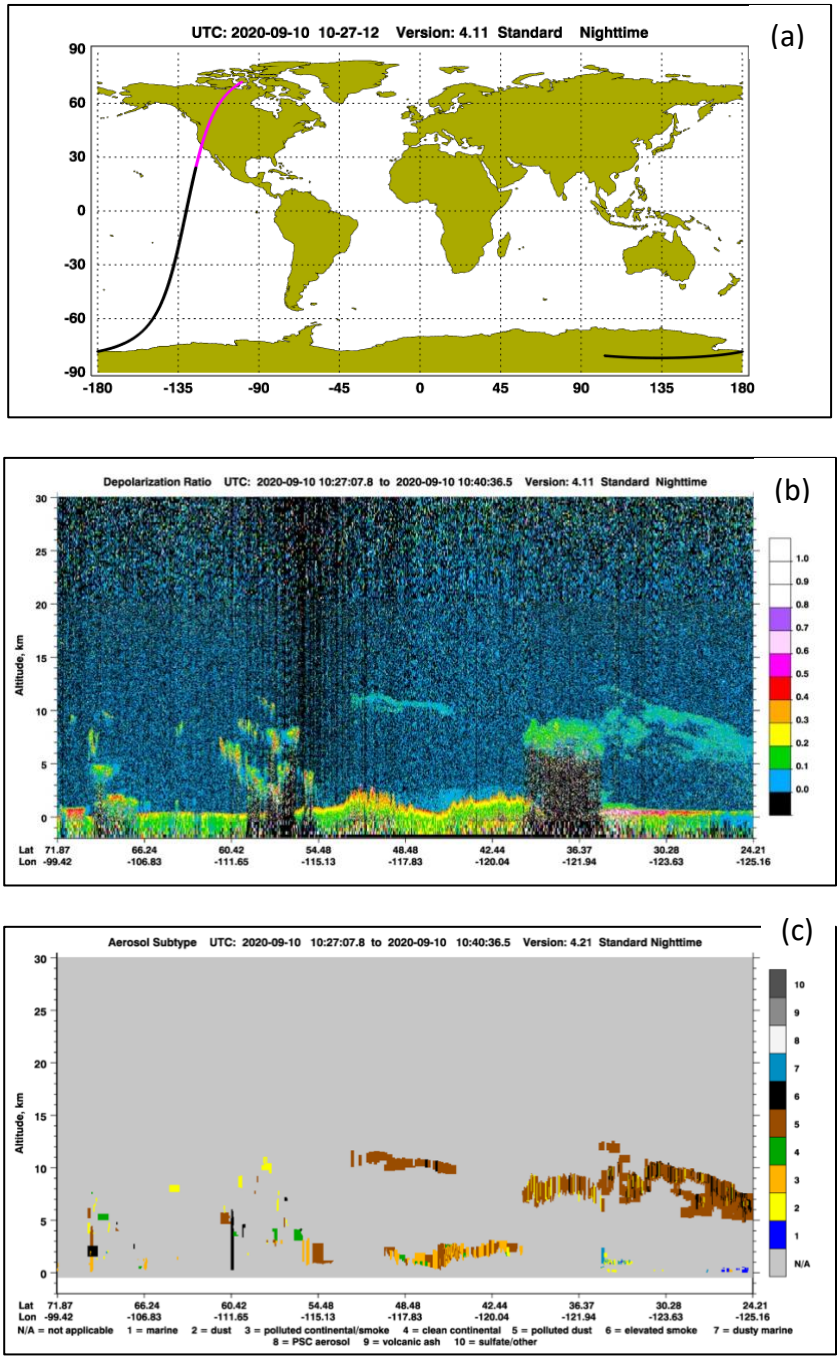

Figure S3: Observations of CALIPSO on 10 September 2020. (a) CALIPSO orbit track, (b) depolarization ratio at 532 nm, (c) aerosol subtype on 2020-09-10.