



Supplement of

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

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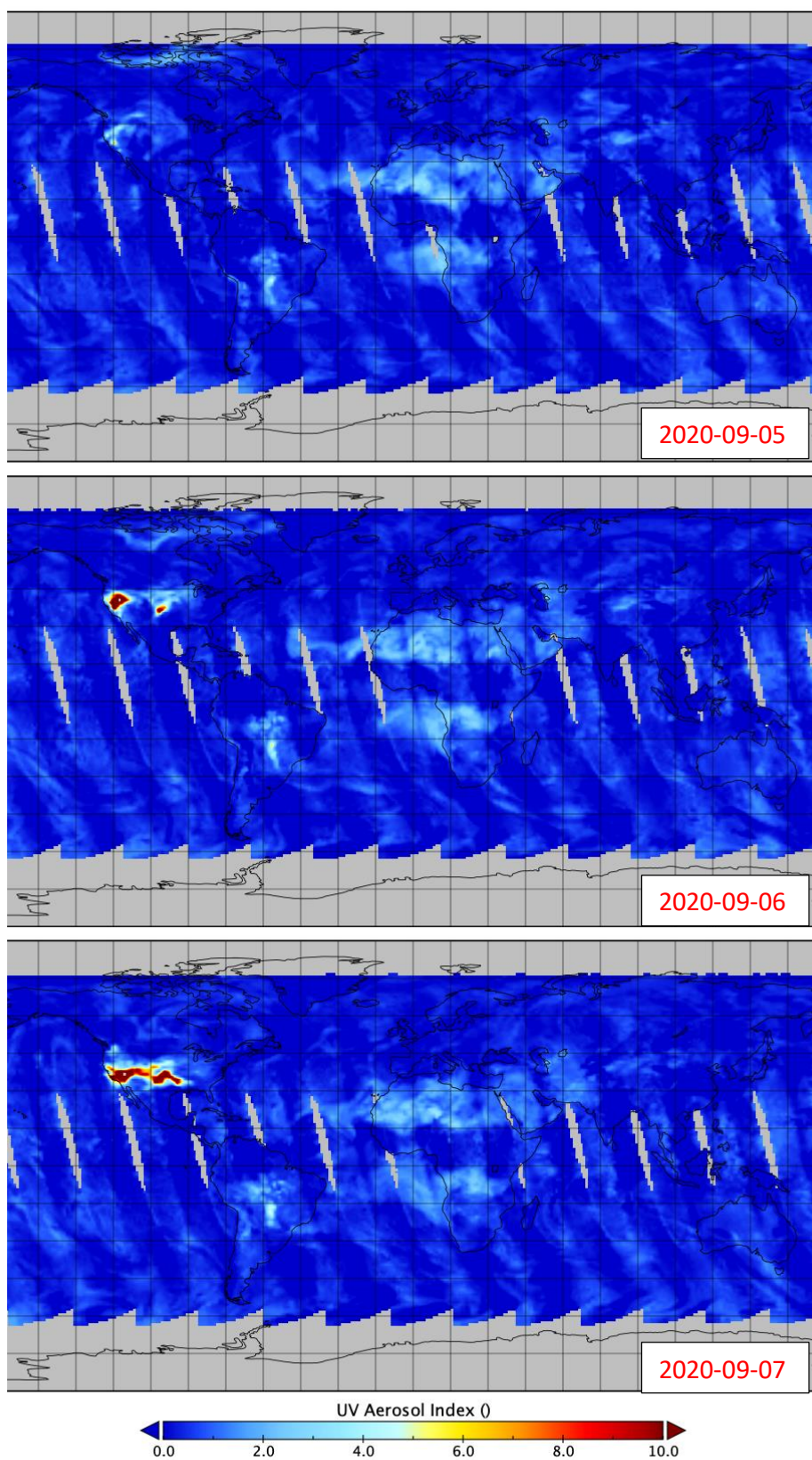


Figure S1: UVAI (UV aerosol index) measured by OMPS instruments.

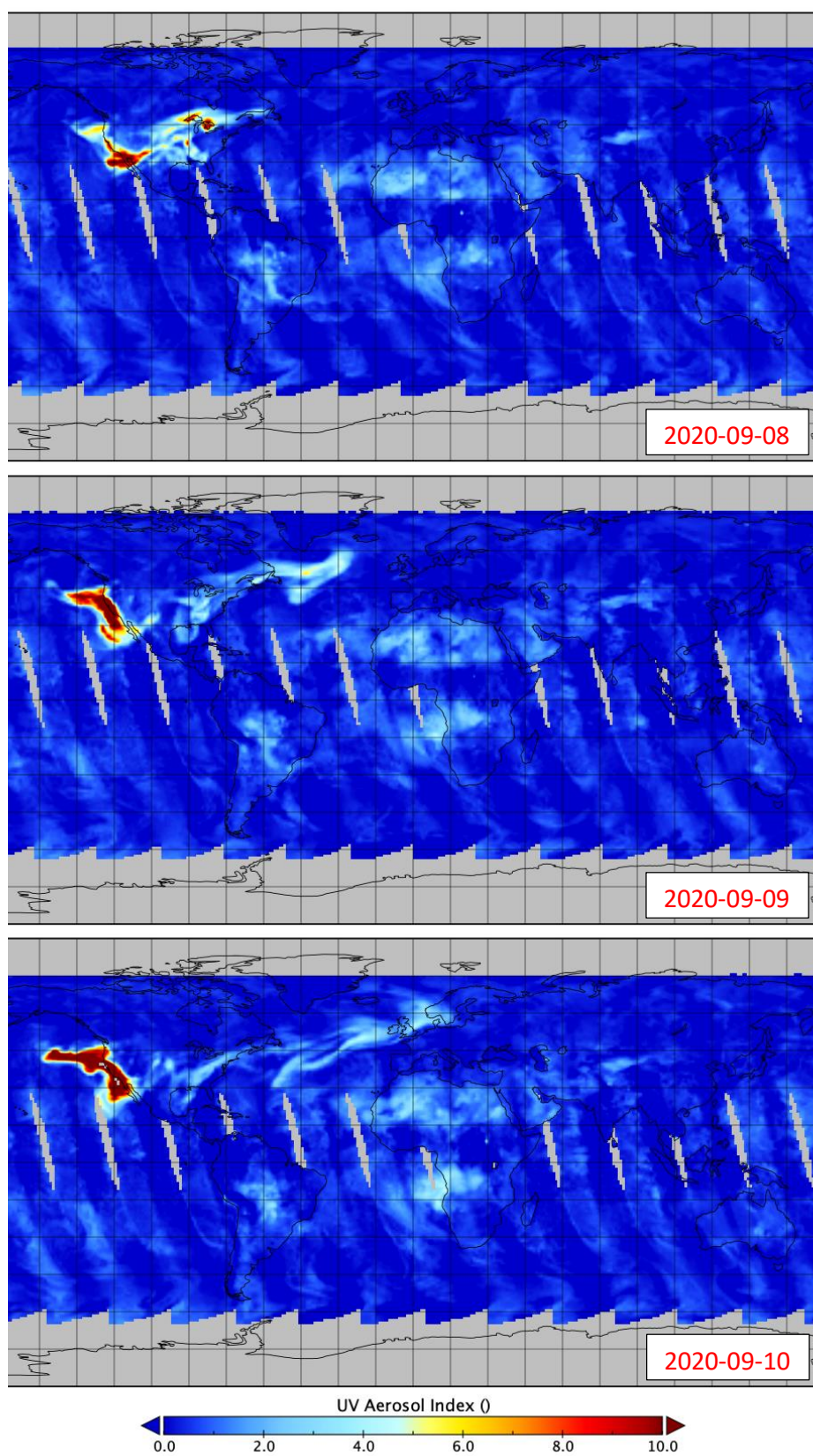


Figure S1: (Continued) UVAI (UV aerosol index) measured by OMPS instruments.

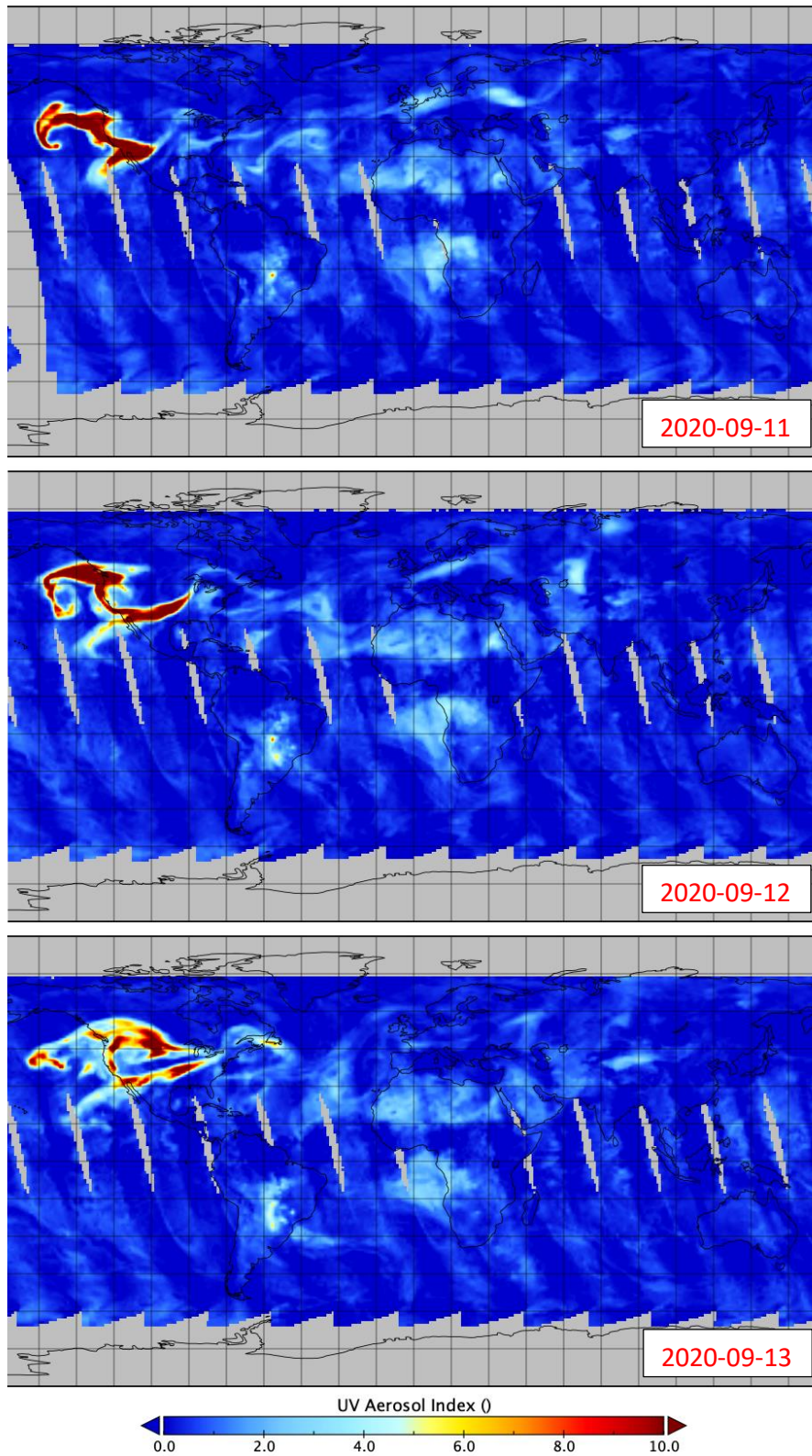


Figure S1: (Continued) UVAI (UV aerosol index) measured by OMPS instruments.

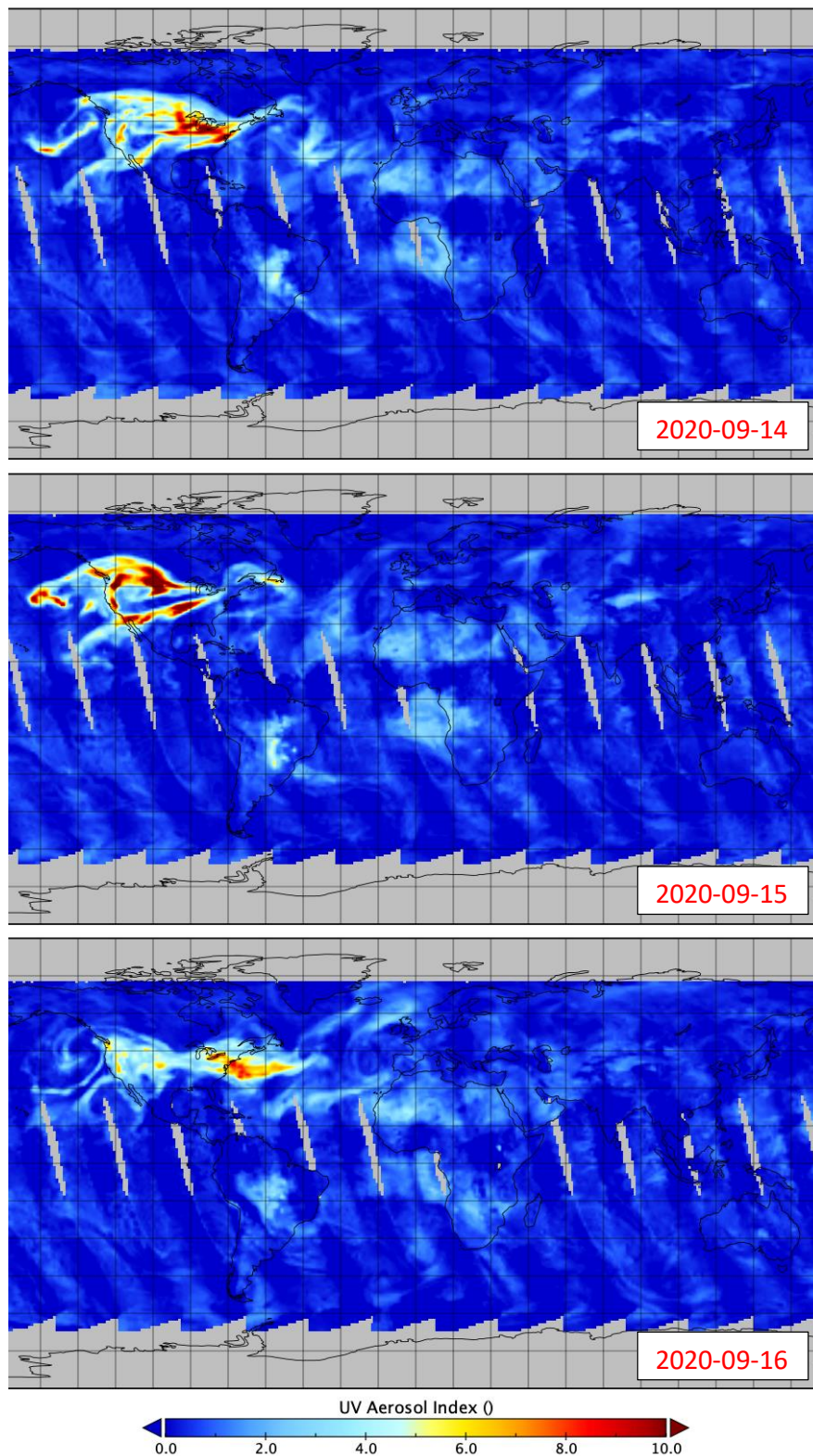


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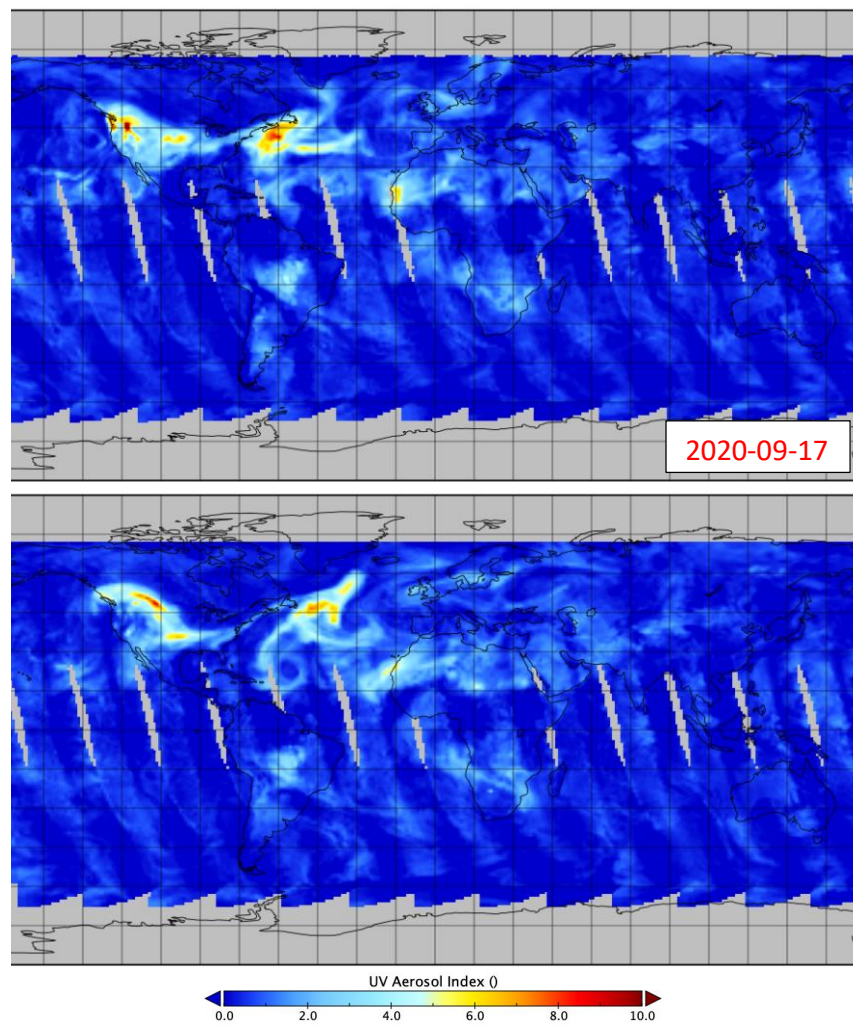


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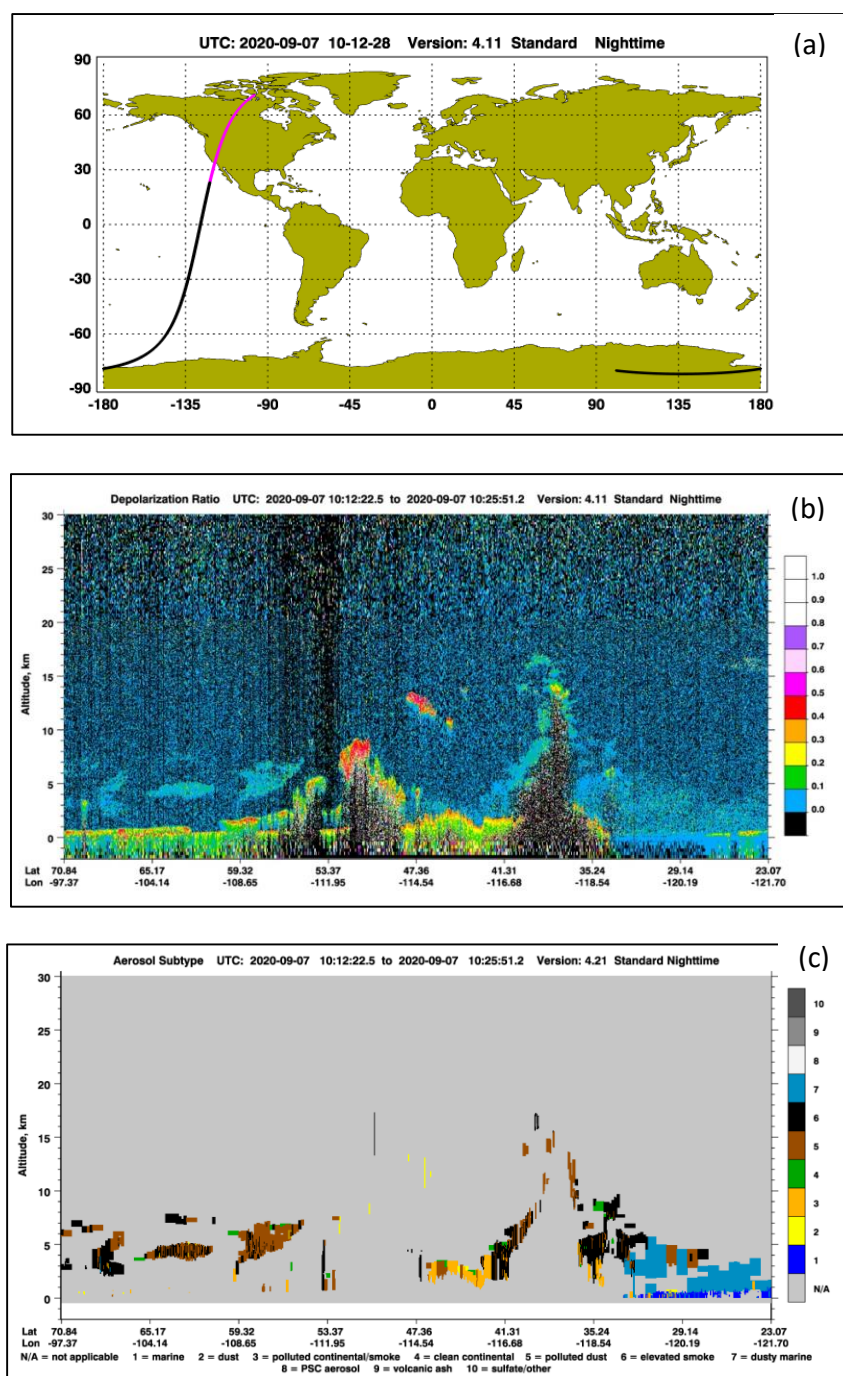


Figure S2: Observations of CALIPSO on 07 September 2020. (a) CALIPSO orbit track, (b) depolarization ratio at 532 nm, (c) aerosol subtype on 2020-09-07. A towering like pyro-cumulonimbus cloud with smoke from Creek fire was detected between (41.31N,116.68W) and (35.24N,118.54W)

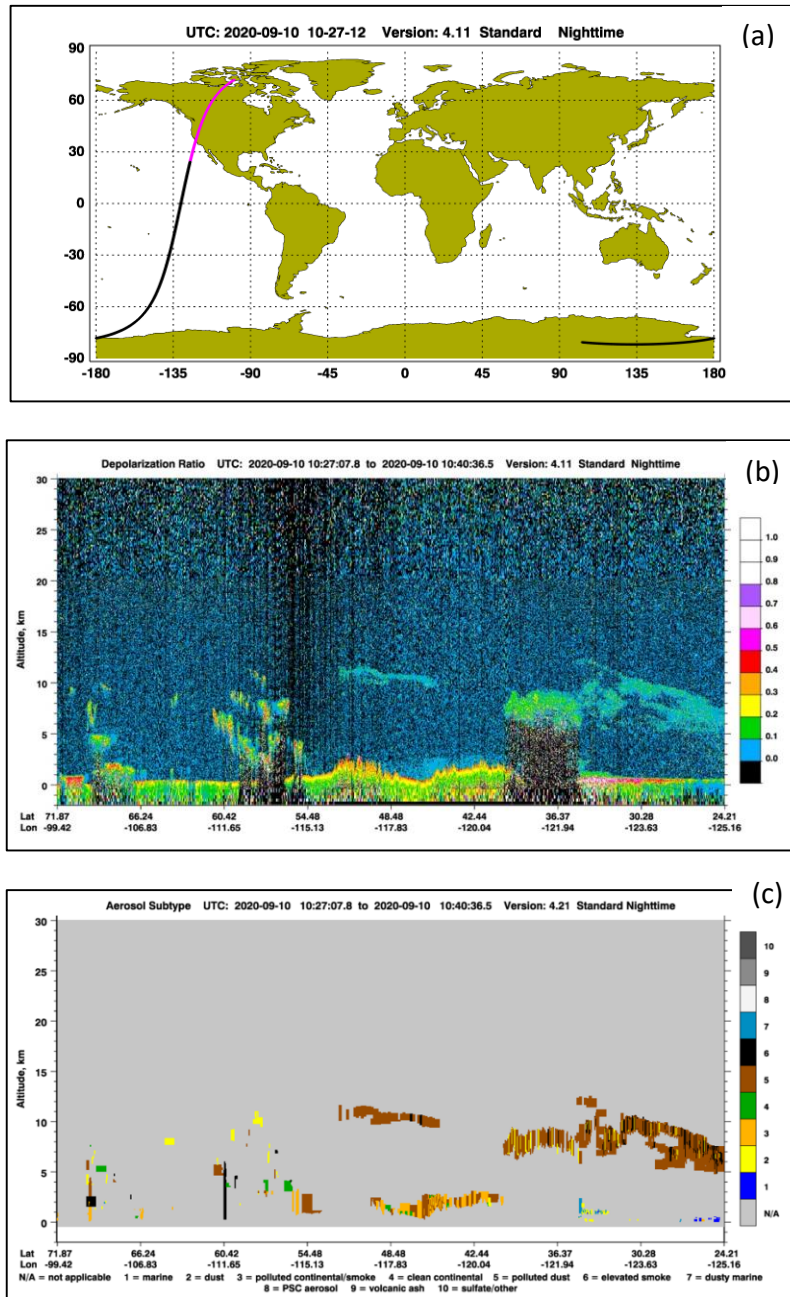


Figure S3: Observations of CALIPSO on 10 September 2020. (a) CALIPSO orbit track, (b) depolarization ratio at 532 nm, (c) aerosol subtype on 2020-09-10.