Supplement of

Impacts of aerosols on seasonal precipitation and snowpack in California based on convection-permitting WRF-Chem simulations

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Supplementary Figure S1. Surface runoff (mm day$^{-1}$) in the CTRL simulation averaged over October 2012 to June 2013. Red lines represent the mountain tops with elevation $\geq 2.5$ km.
Supplementary Figure S2. Spatial distribution of surface albedo averaged over October 2012 to June 2013 from (a) NLDAS data assimilation and (b) CTRL simulation.
Supplementary Figure S3. Aerosol impacts on surface runoff (mm day\(^{-1}\)) averaged over October 2012 to June 2013 contributed by (a) Total effects (CTRL – CLEAN), (b) ARI effect (CTRL – NARI), (c) ACI effect (NARS – CLEAN), (d) ASI effect (CTRL – NASI), (e) local anthropogenic aerosols (CTRL – NoLocAnth), (f) local dust aerosols (CTRL – NoLocDust), and (g) transported aerosols (CTRL – NoTran). Blue lines represent the mountain tops with elevation ≥ 2.5 km.
Supplementary Figure S4. Monthly mean surface runoff (mm day$^{-1}$) in the CTRL simulation.