

Major Weather Events and Impacts of 2020, Paper 14.1 Lance F. Bosart and Minghao Zhou, University at Albany, SUNY Friday, 15 January 2021, 1:10pm–1:15pm



500 hPa heights (dam, solid black contour), winds (kt, barbs), standardized height anomaly (sigma, shading) from GFS



View: Smoke plume being absorbed into a developing mid-latitude cyclone. (Terra / MODIS True Color Imagery on September 11th, 2020) Source: <u>https://worldview.earthdata.nasa.gov</u>



- Weak Arizona summer monsoon led to widespread hot and dry weather over western CONUS
- Mid-level moisture from East Pacific hurricanes fueled "dry lightning" storms, sparking wildfires since mid-August
- West Pacific typhoons underwent extra-tropical transition, reconfigured downstream North Pacific upper-level flow
- Re-configured NPAC flow favored a series of extreme weather events over western CONUS, exacerbating wildfire situations

Acreage burned: a record for California since 1950 Source: CalFire / The Washington Post

