Water Year 2019 Landfalling Atmospheric Rivers

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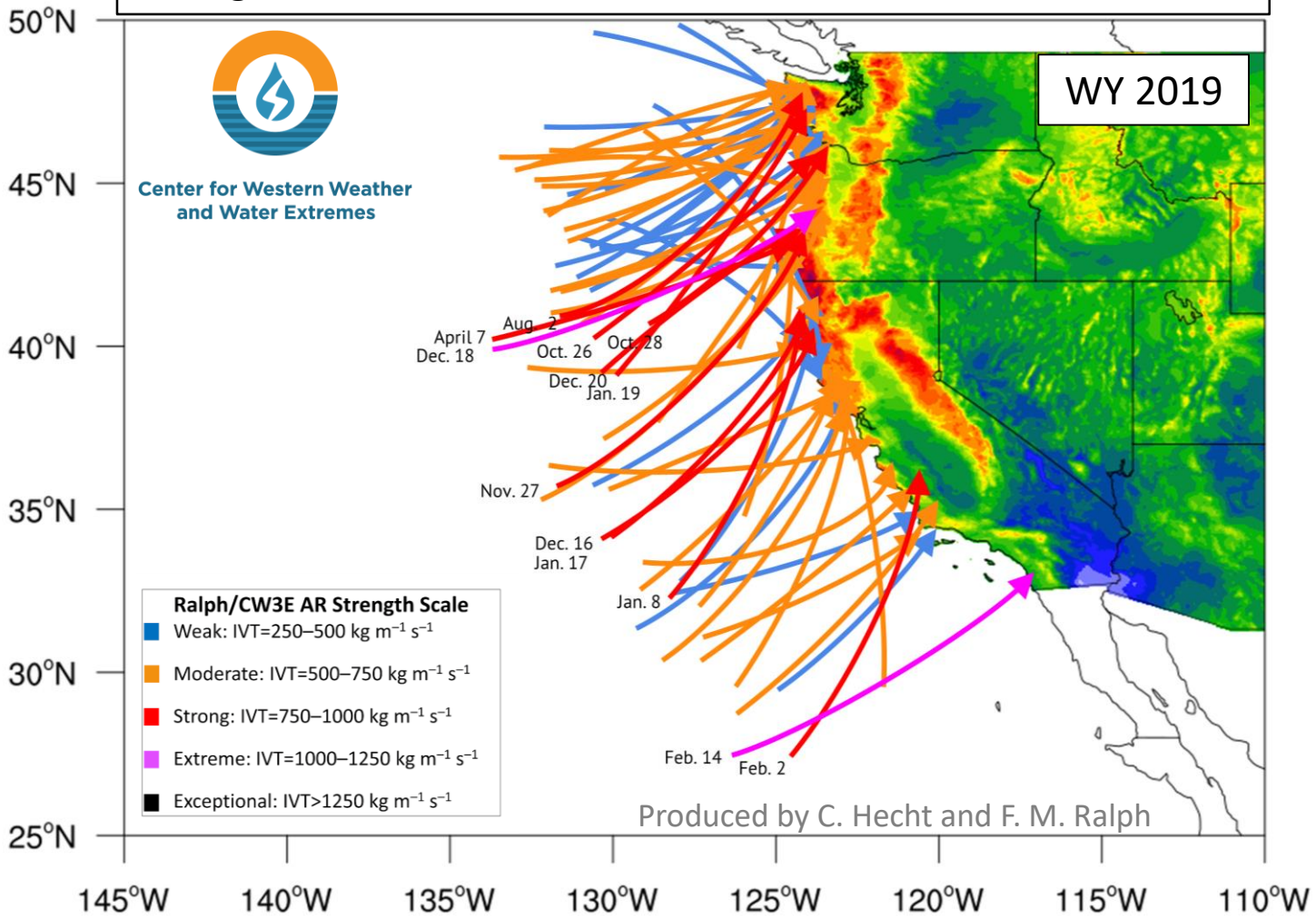
AR Strength	AR Count
Weak	19
Moderate	32
Strong	11
Extreme	2
Exceptional	0

Regions Impacted by Each AR	
State/Region	AR Conditions
Washington	48
Oregon	54
Northern CA	49
Central CA	29
Southern CA	21

64 atmospheric rivers made landfall over the U.S. West Coast during Water Year 2019



Water Year 2019 Compared to Water Year 2018

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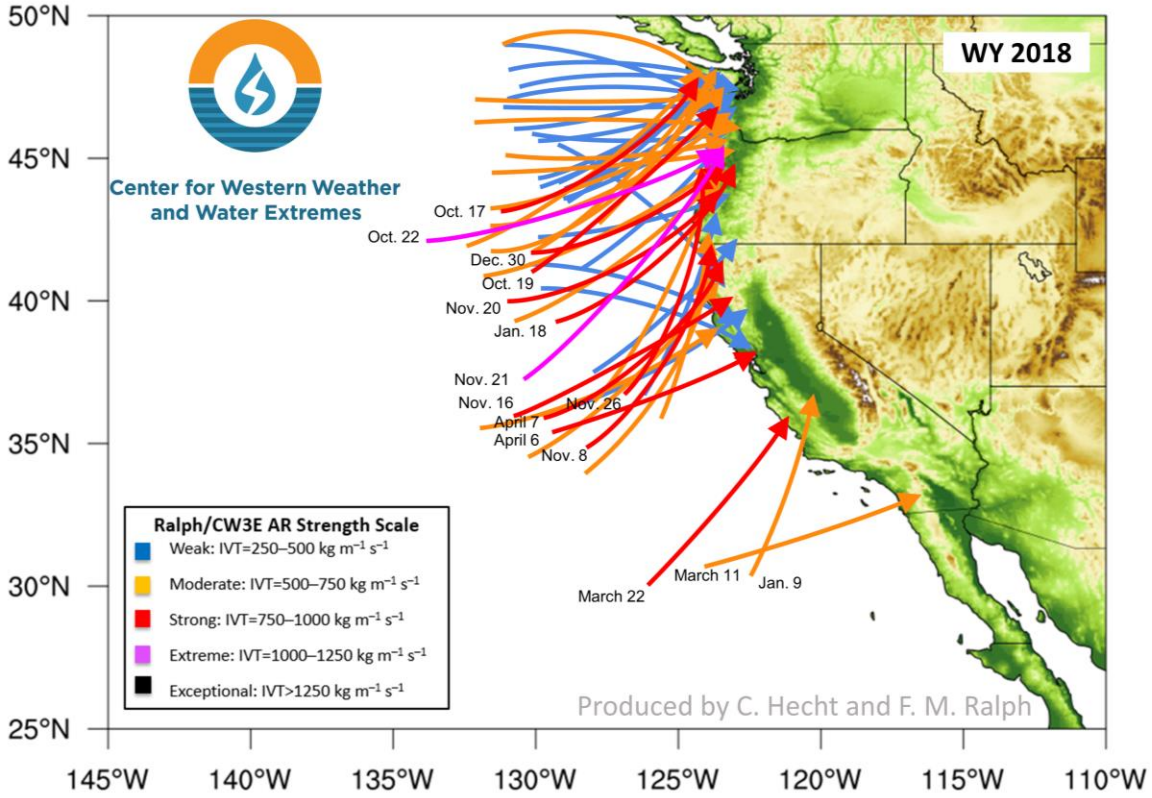

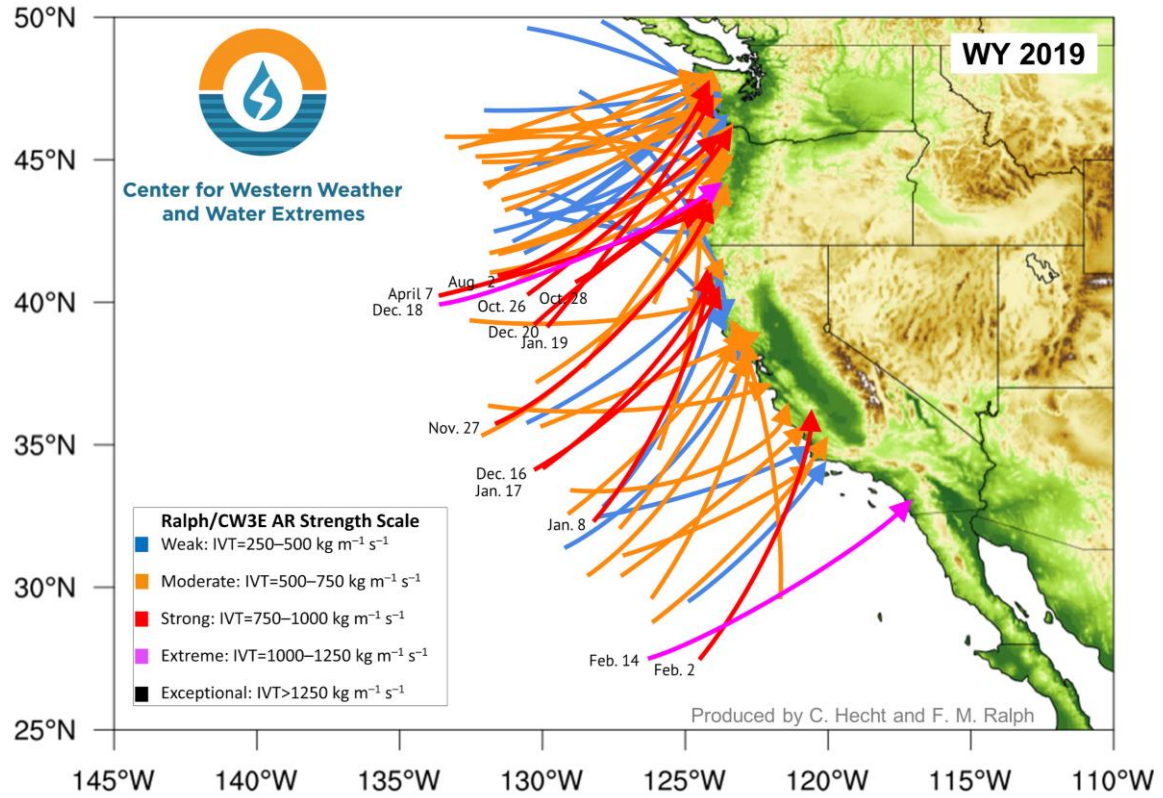

- Water Year 2019 experienced a total of 64 landfalling ARs over the U.S. West Coast, 9 more than Water Year 2018
- Water Year 2019 also experienced 13 ARs that were associated with Strong or greater IVT magnitudes compared to 14 during WY 2018

Water Year 2019 Compared to Water Year 2018

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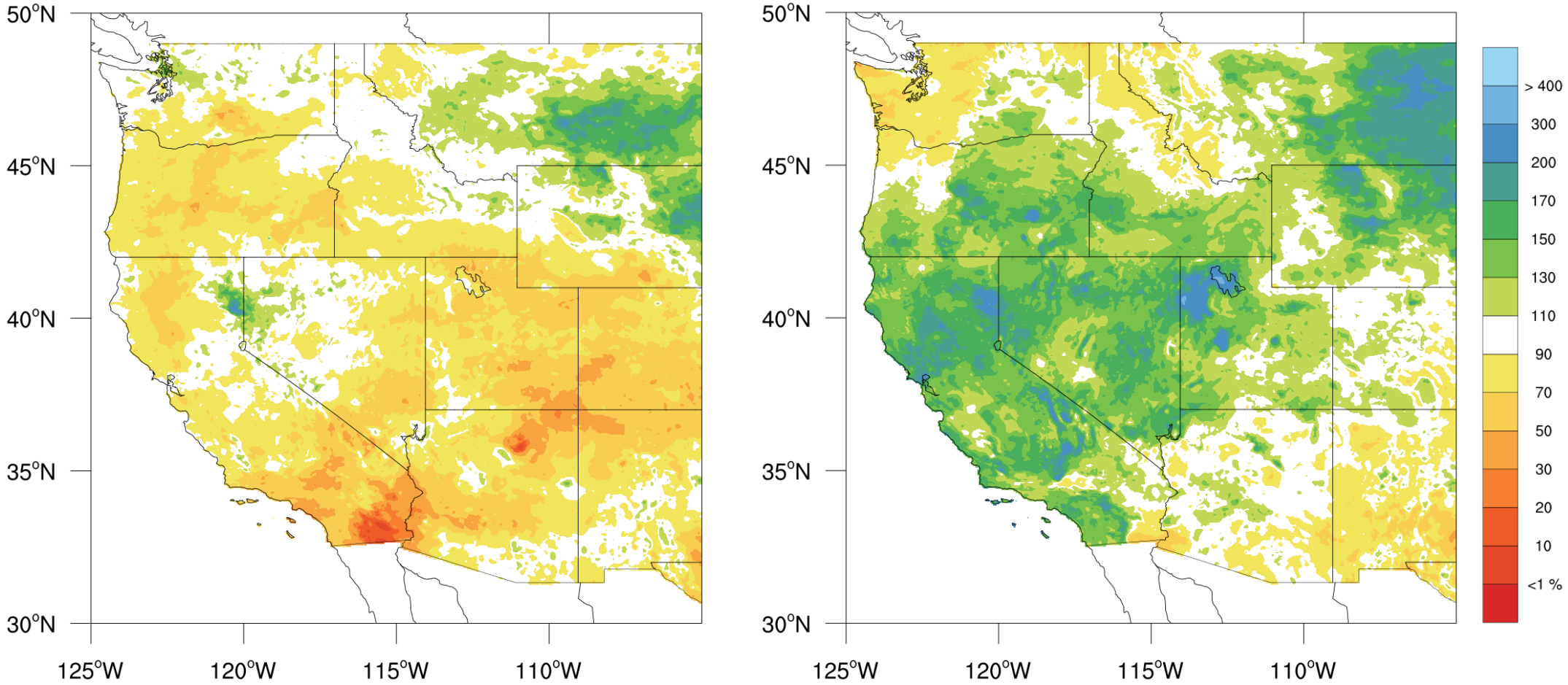
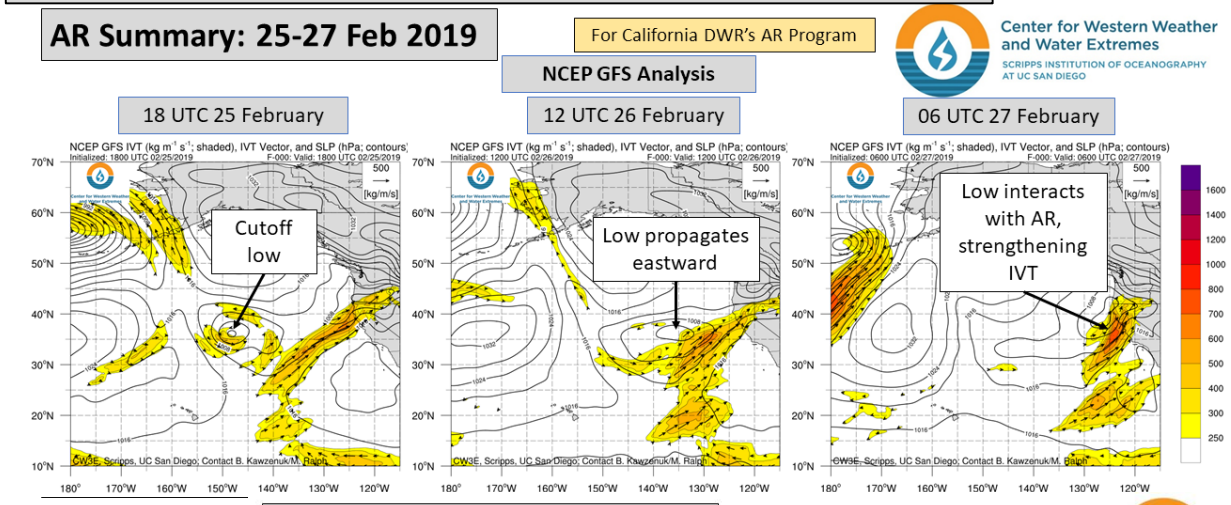
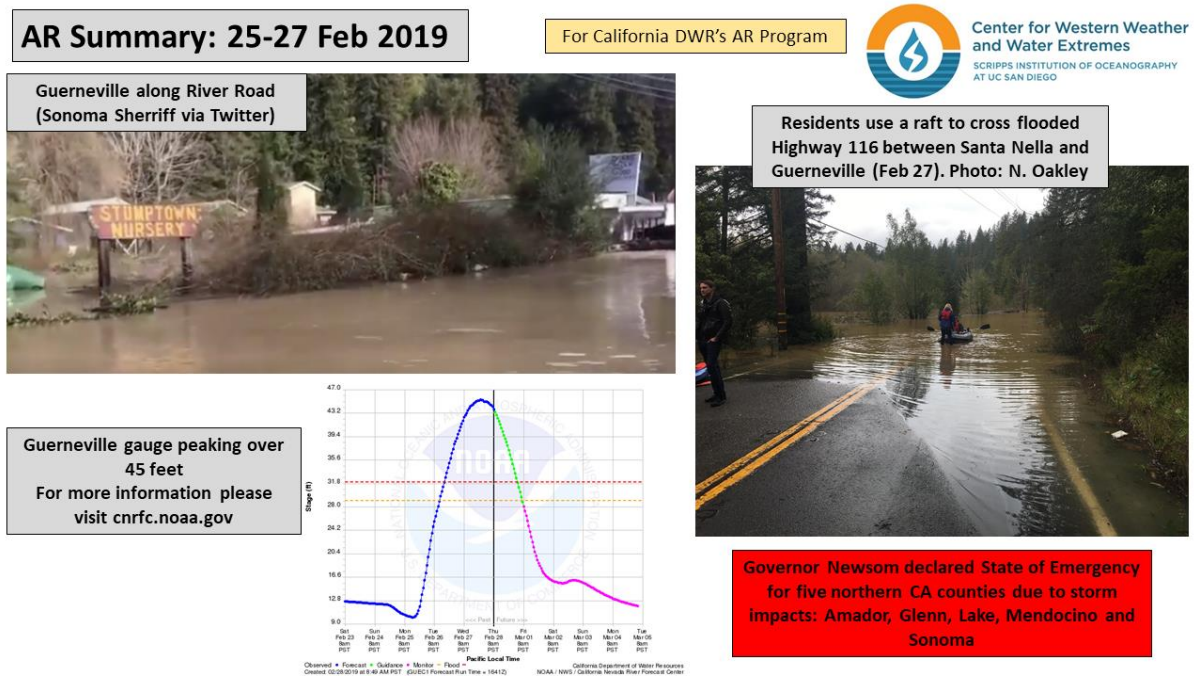


- N. CA experienced AR conditions (IVT >250 kg m^{-1} s^{-1}) from 49 unique ARs, whereas S. CA experienced conditions from 21
- In WY 2019, N. CA experienced 13 more ARs and Southern CA experienced 3 more ARs than WY 2018
- The differences in total ARs between WY 2018 and WY 2019 lead to more precipitation falling over a majority of CA during WY 2019

Water Year 2019 Highlight





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- Six ARs impacted California during February 2019
- The AR that impacted Northern California between 25 and 27 February produced an impressive 21.36 inches of precipitation over Venado, CA
- The large precipitation accumulations associated with this late February AR combined with the moist conditions created by numerous ARs that impacted the region in the previous weeks caused the Russian River in Guerneville, CA to rise to 45 feet, 4.5 ft. below the flood of record
- Visit https://cw3e.ucsd.edu/cw3e-ar-update-25-27-february-post-event-summary/ for a full summary on the event