

Water Year 2018 Summary



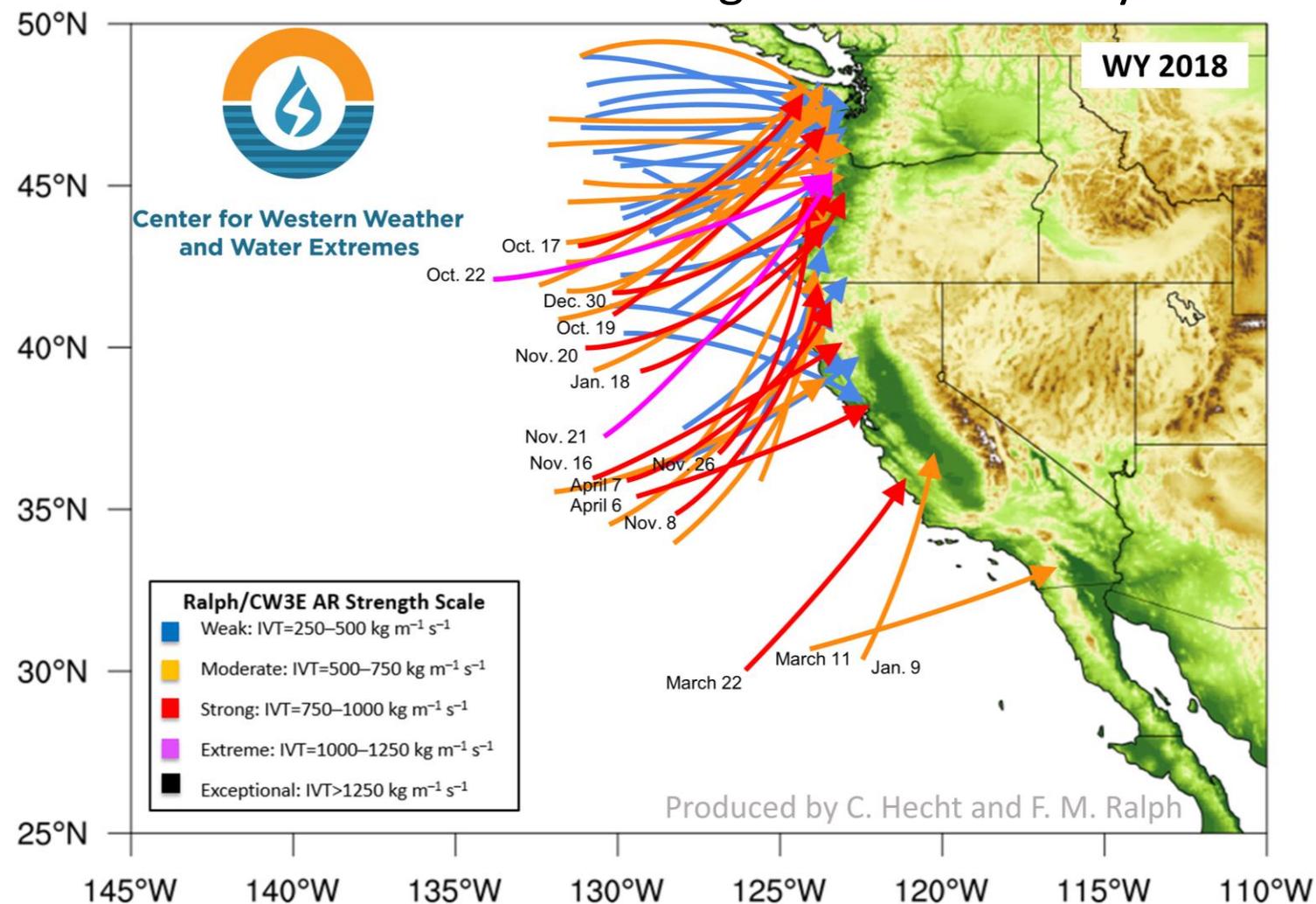
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55 Atmospheric Rivers made landfall over the U.S. West Coast during the 2018 water year

AR Strength	AR Count
Weak	22
Moderate	20
Strong	11
Extreme	2
Exceptional	0

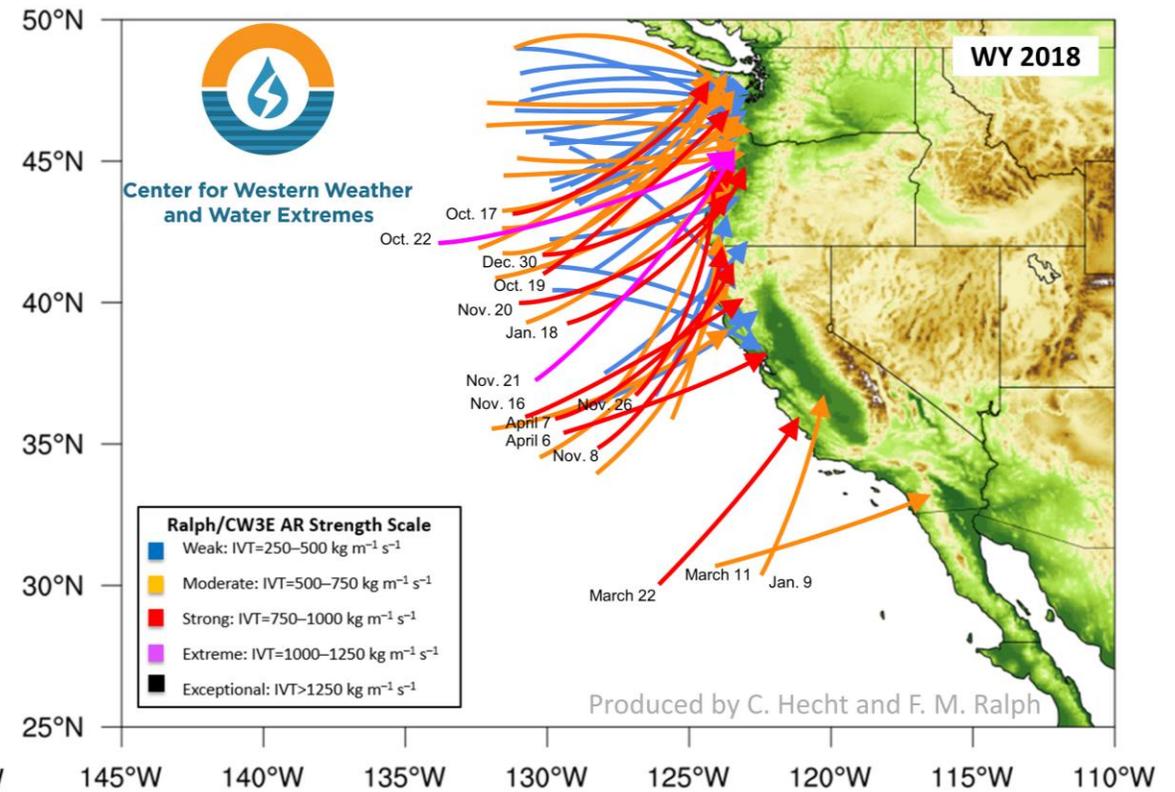
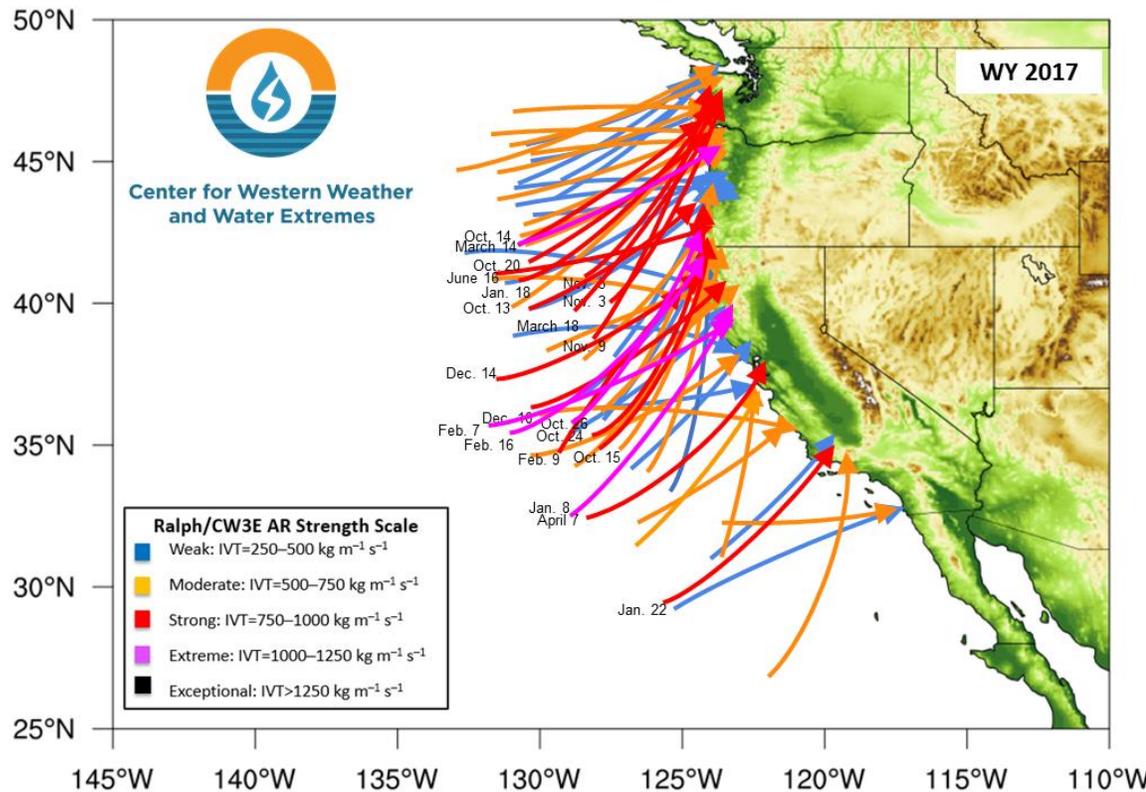
State/Region	AR Count
Washington	48
Oregon	54
NorCal	36
SoCal	18



Water Year 2018 Compared to Water Year 2017

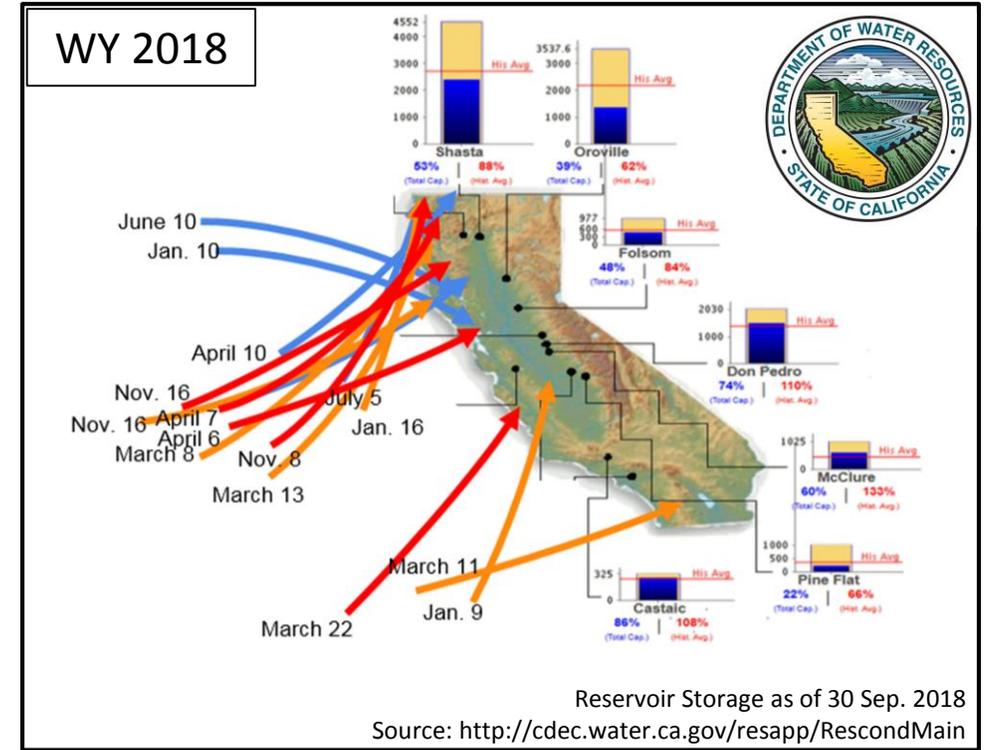
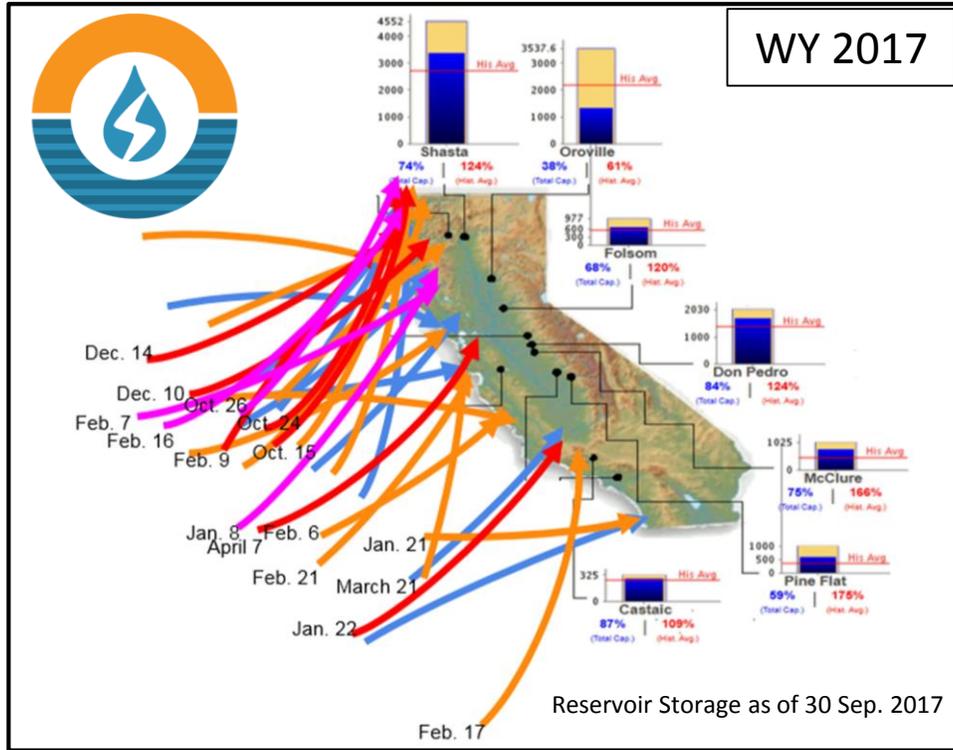


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- Water Year 2018 experienced a total of 55 landfalling ARs over the U.S. West Coast, 13 less than Water Year 2017
- Water Year 2018 also experienced 14 ARs that were associated with Strong or greater IVT magnitudes compared to 13 during WY 2017

Water Year 2018 Compared to Water Year 2017



	WY 2017	WY 2018
Total ARs over CA	33	15
Weak	10	15
Moderate	12	6
Strong	7	5
Extreme	4	0
Avg. Res Storage (% Norm.)	136%	98%

- Compared to WY `17, a larger majority WY `18 ARs were strongest over the Pacific Northwest
- CA experienced 5 ARs of strong or greater magnitude during WY `18 vs. 11 during WY `17
- At the end of WY `18, the avg. reservoir storage percentage of normal was 98% compared to 136% during WY `17

Water Year 2018 AR Impacts



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Photo by Ventura
County Air Unit

- A post-fire debris flow was triggered by the precipitation produced during a landfalling atmospheric river near Montecito, CA on 09 January 2018
- The debris flow occurred in and below the Thomas fire that began on 04 Dec. 2017
- The Debris flow resulted in the death of 21 people, the hospitalization of 150 people, the destruction of over 100 homes and the damage to an additional 300 homes.
- More information on the meteorological conditions that led to the debris flow can be found at the link below