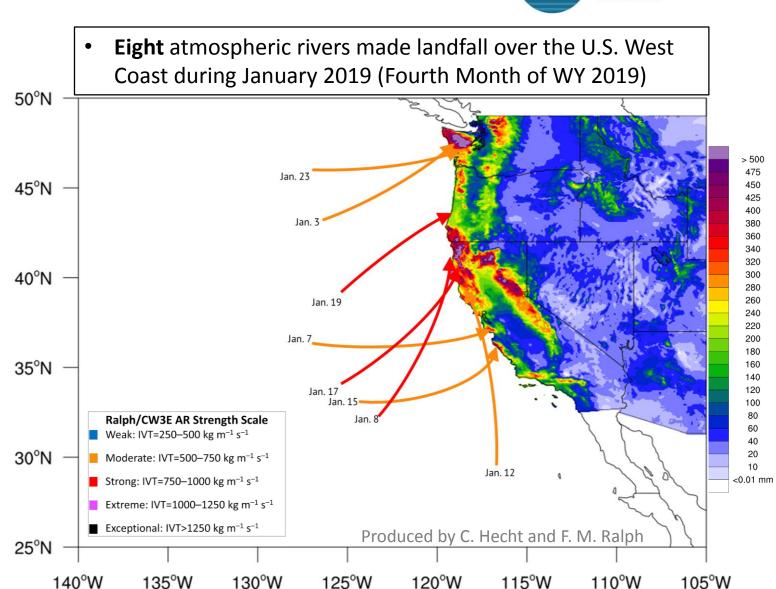
Water Year 2019: January Atmospheric Rivers



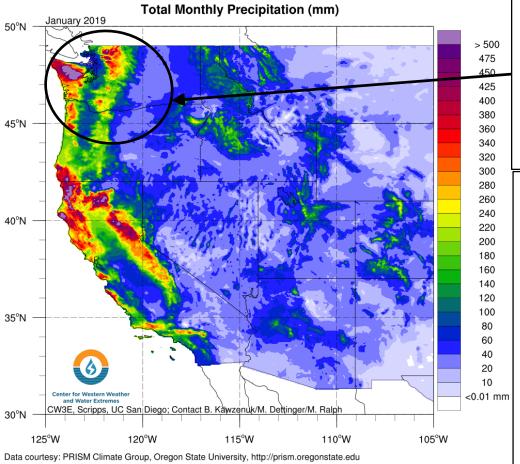
AR Strength	AR Count
Weak	0
Moderate	5
Strong	3
Extreme	0
Exceptional	0

Regions Impacted by Each AR	
State/Region	AR Conditions
Washington	6
Oregon	6
Northern CA	6
Central CA	5
Southern CA	4



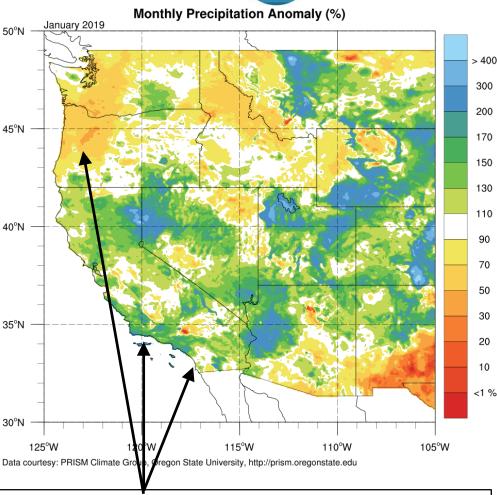


January 2019 Precipitation



- The 8 total landfalling ARs contributed to >400 mm over portions of the Coastal, Olympic, and Cascade Mts. In Washington and Northern Oregon
- Parts of Northern CA
 received >400 mm,
 while southern
 California received 40—
 300 mm, with the
 highest accumulations
 falling over the higher
 elevations of the
 Transverse, Coastal and
 Sierra Nevada
 Mountains



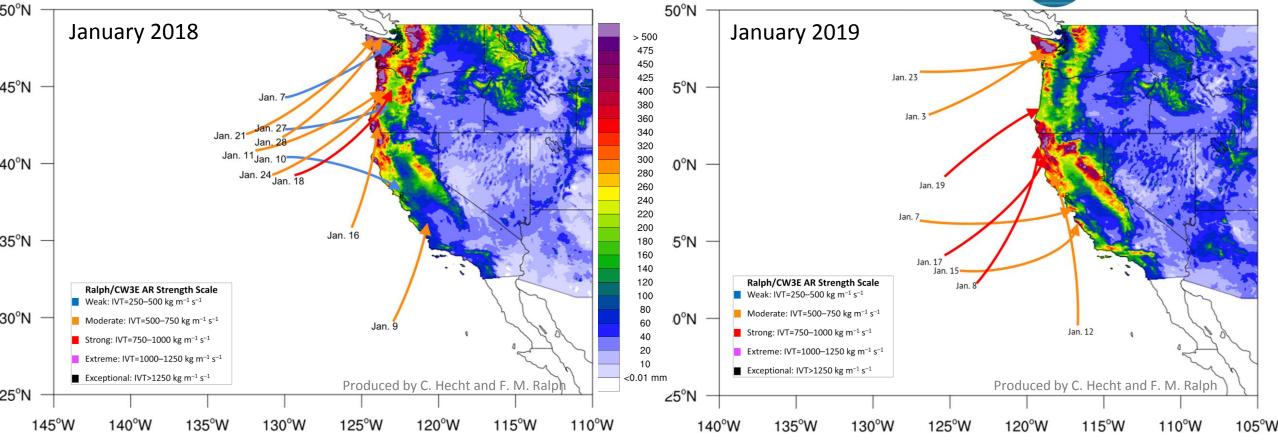


- While the Pacific Northwest received high precipitation accumulations during the month of January, only the Olympic Mountains and Eastern Washington and Oregon received above normal precipitation for the month
- A majority of California received above normal or above normal precipitation for the month of January



January 2019 Compared to January 2018



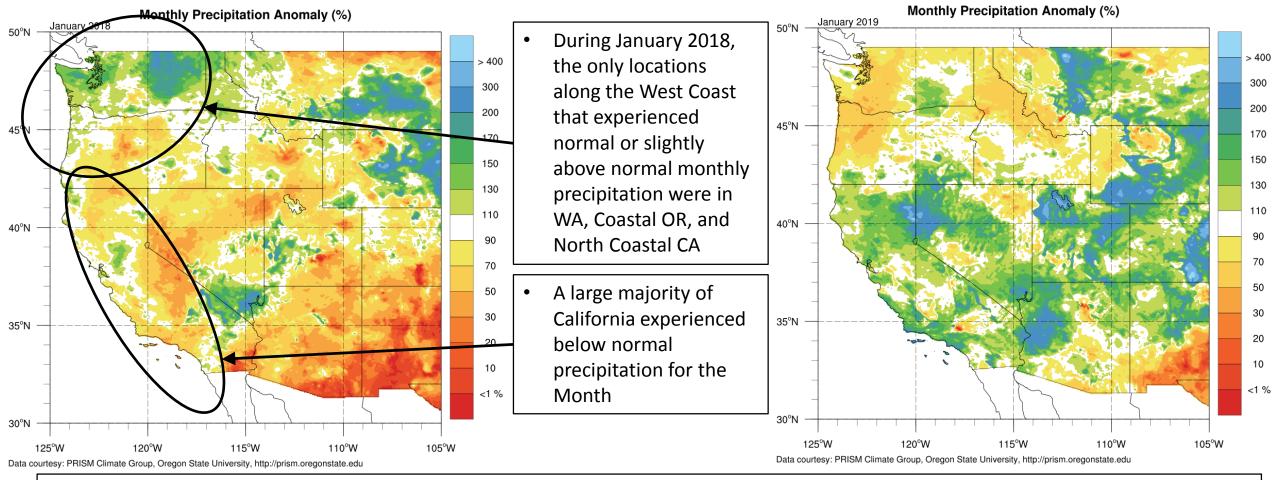


- January 2018 experienced two more landfalling ARs compared to January 2019
- January 2018 also only had 1 strong AR, whereas January 2019 had 3 strong ARs
- A larger majority of the ARs that made landfall during January 2018 were stronger over the Pacific Northwest (Washington and Oregon)
- Due to this difference in AR location, January 2018 experienced higher precipitation accumulations over Washington and Oregon, whereas January 2019 experienced higher precipitation accumulations over portions of California.



January 2019 Compared to January 2018

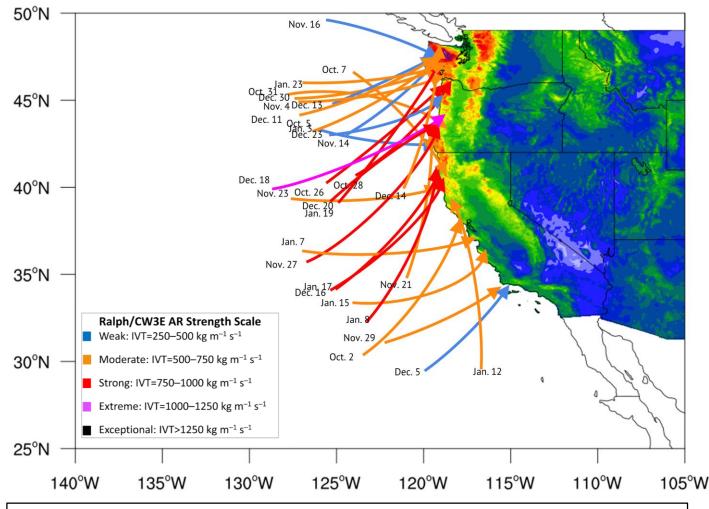




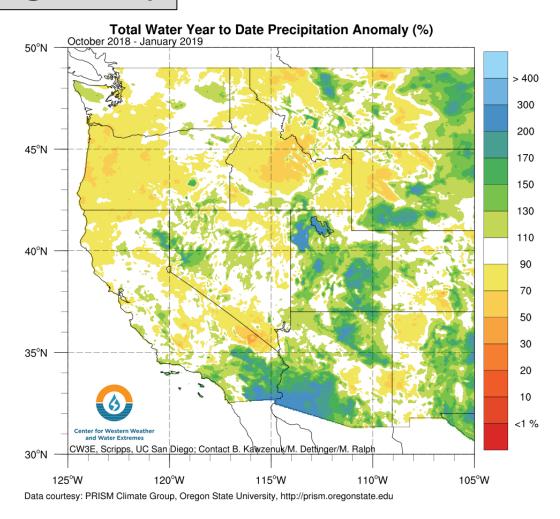
- When comparing this January to last January, there was almost a reversal in precipitation accumulations
- Much of Coastal Washington (except the Olympic Mts.) and Northern Coastal Oregon were below normal during this January (2019)
- A majority of California experienced above normal precipitation during this Jan. (2019), which is opposite of what happened last Jan.



Water Year to Date Summary (Oct. through Jan.)



- The 8 ARs that made landfall during January 2019 brings the Water Year total to 30 (6 Weak, 15 Moderate, 8 Strong, and 1 Extreme)
- The total number that made landfall through January 2018 was 29 (8 Weak, 11 Moderate, 8 Strong, and 2 Extreme)



- Through January 2019, Most of Washington, the southern Central Valley, and Southern California has received near or above normal precipitation
- Coastal Northern CA, OR, and Southern WA has received below normal WY to date precipitaiton