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# Delta Protection Commission

March 17, 2016

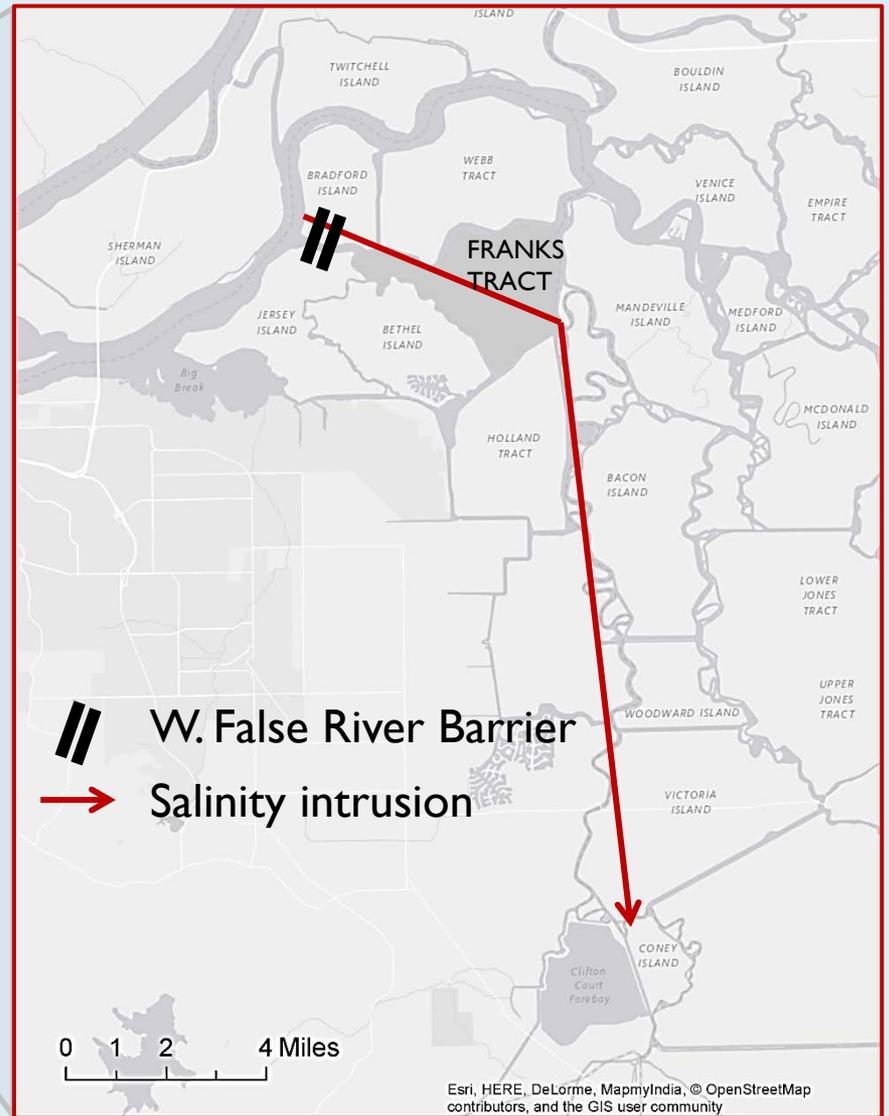
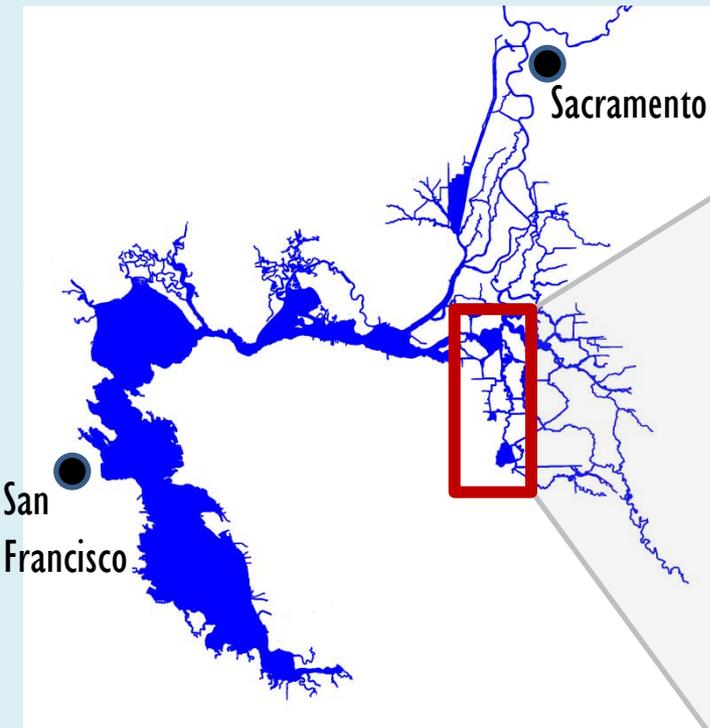
Paul A. Marshall, Chief  
Bay Delta Office, DWR

Acknowledgements:

Eli Ateljevich, Jacob McQuirk



# **2015 West False River Emergency Drought Barrier**

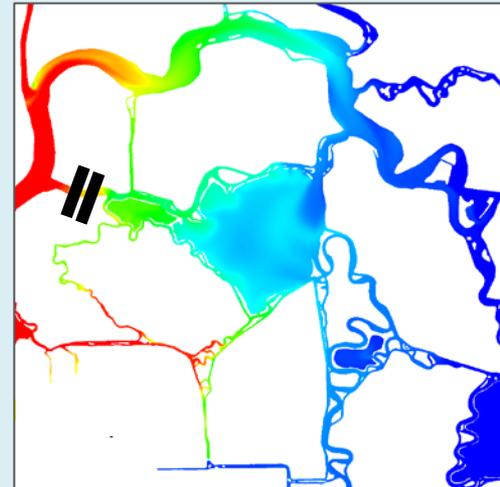
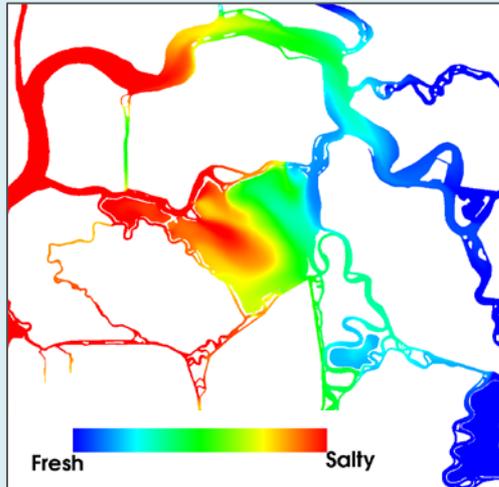


# Tidal Pumping

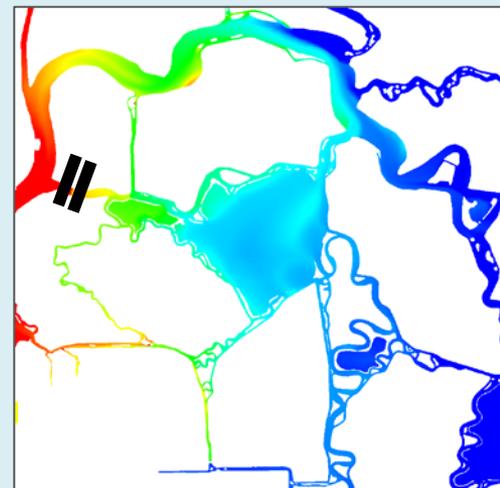
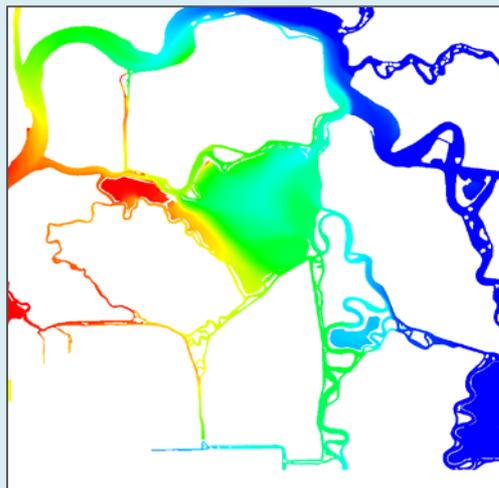
No Barrier

Barrier

Flood

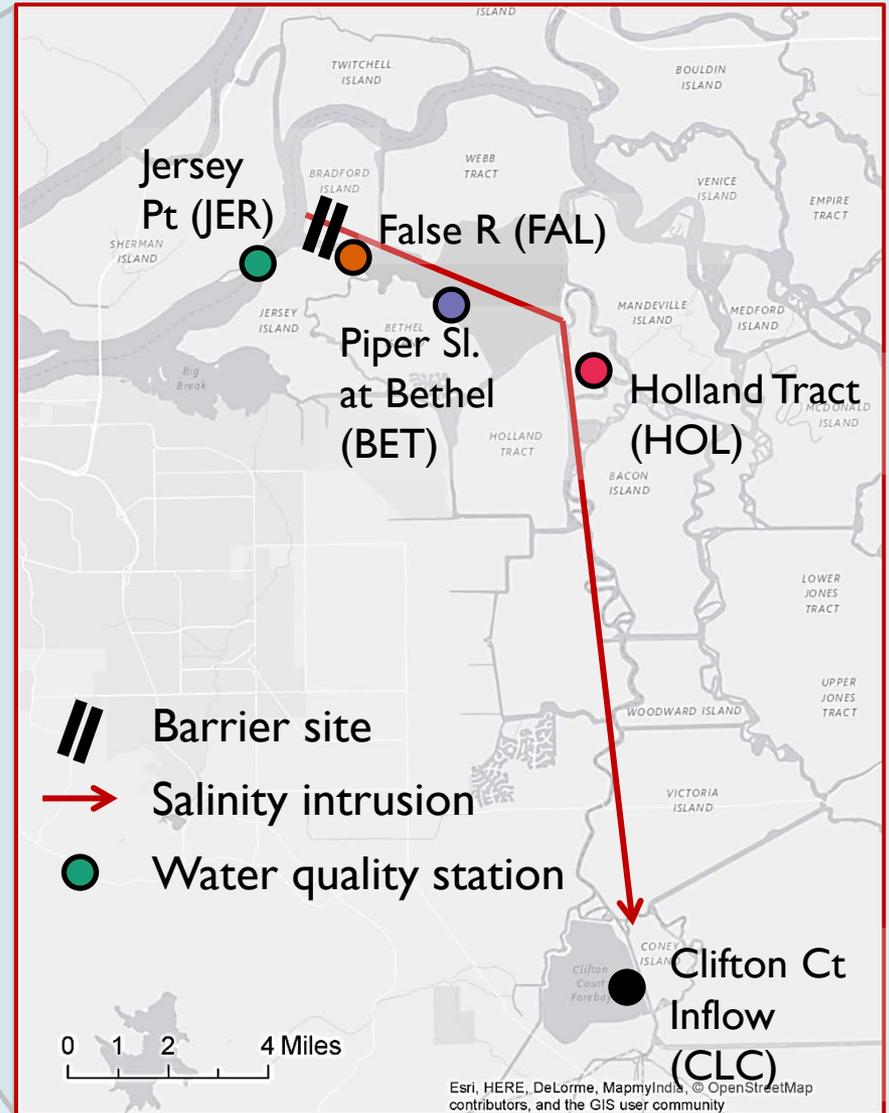
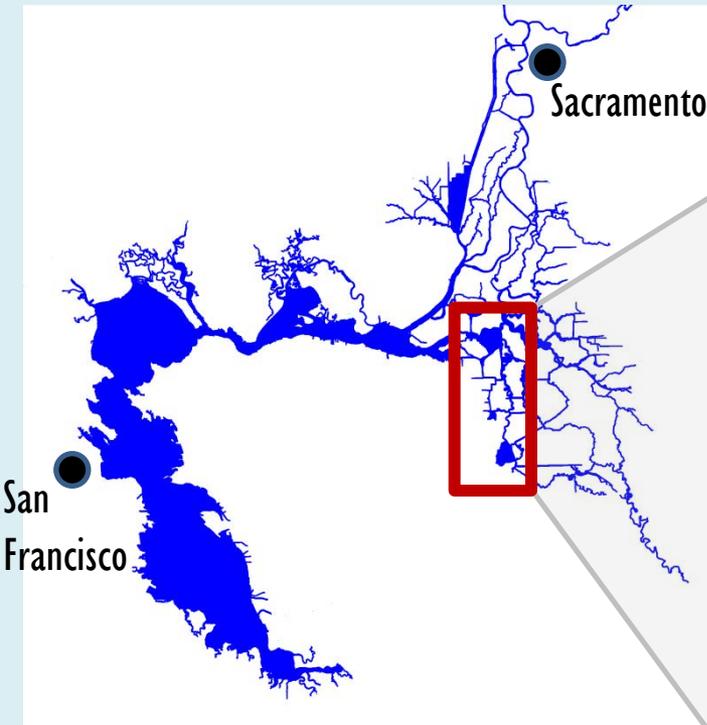


Ebb

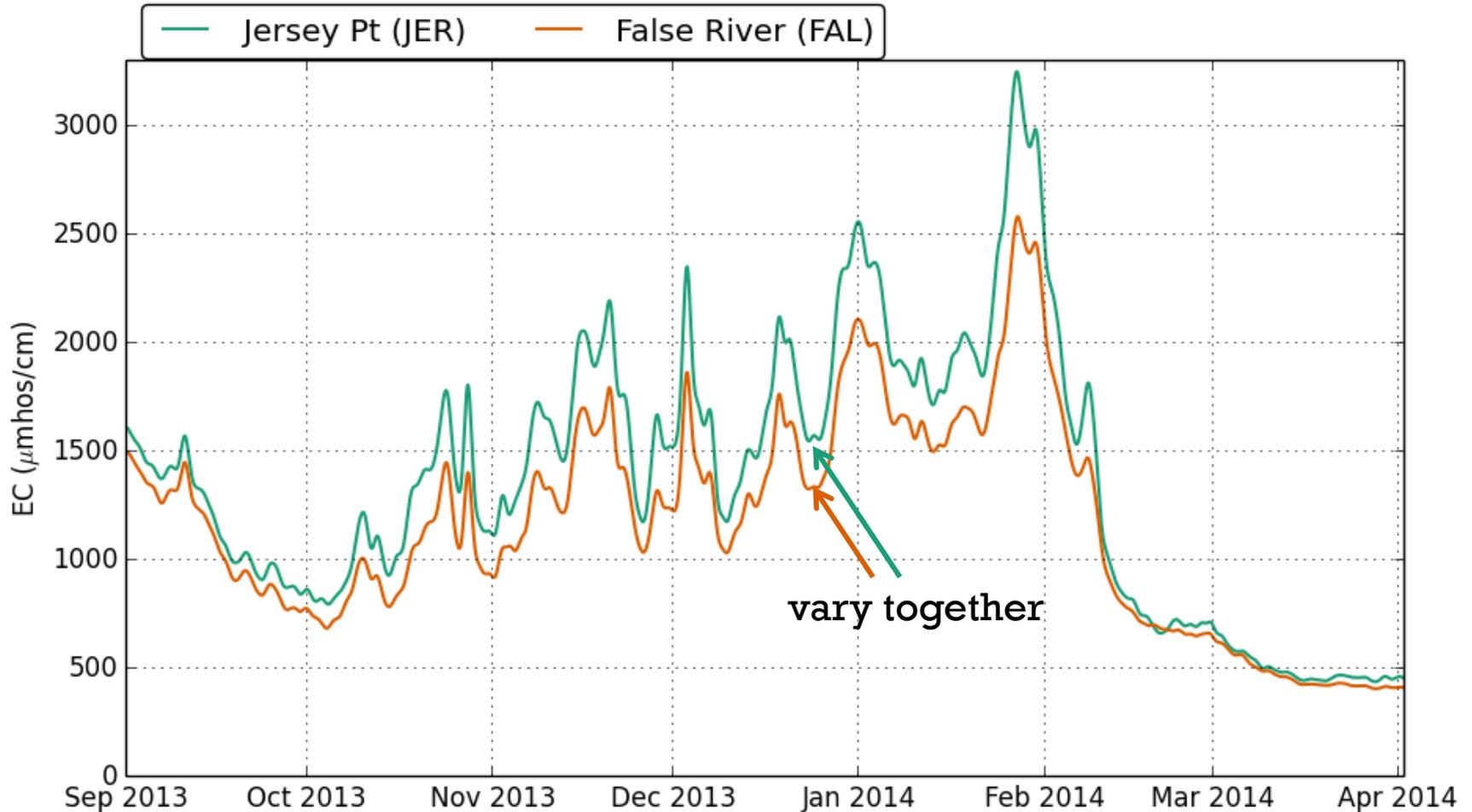


**How Did the Barrier Perform?**

# Salinity Propagation

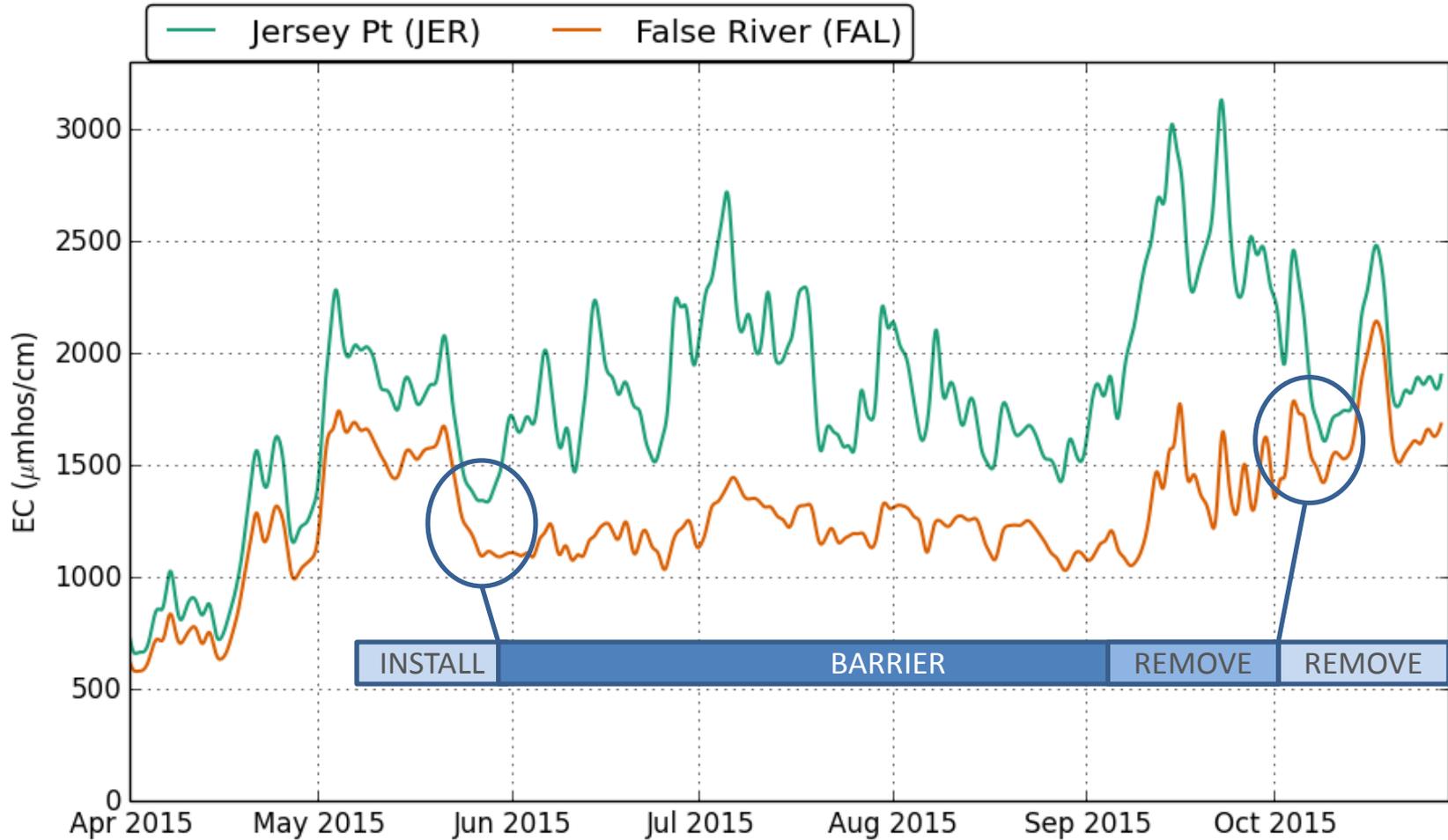


# Salinity Intrusion 2014 (no barrier)



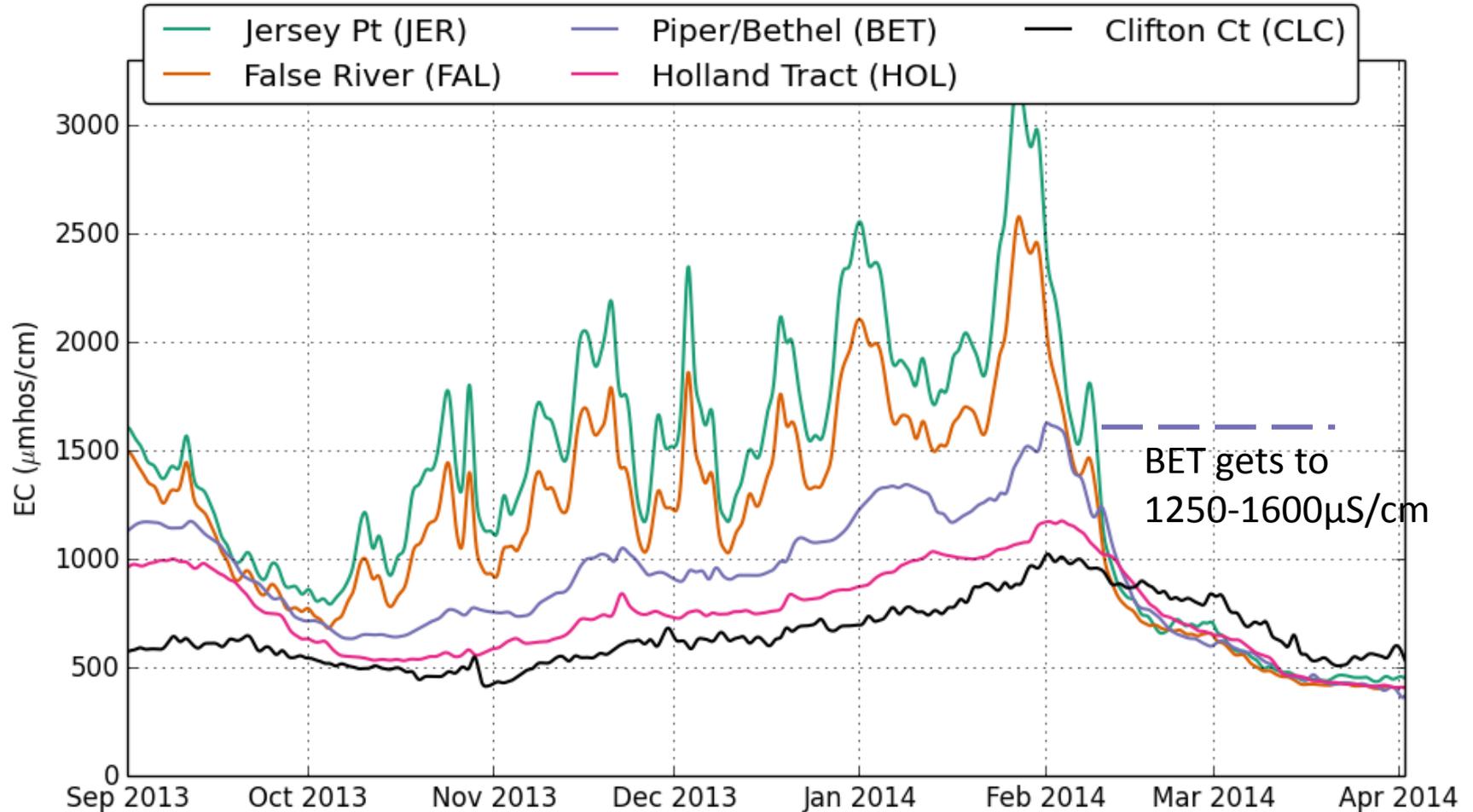
All values are tidally averaged (not 14-day)

# Salinity Intrusion 2015 (barrier)



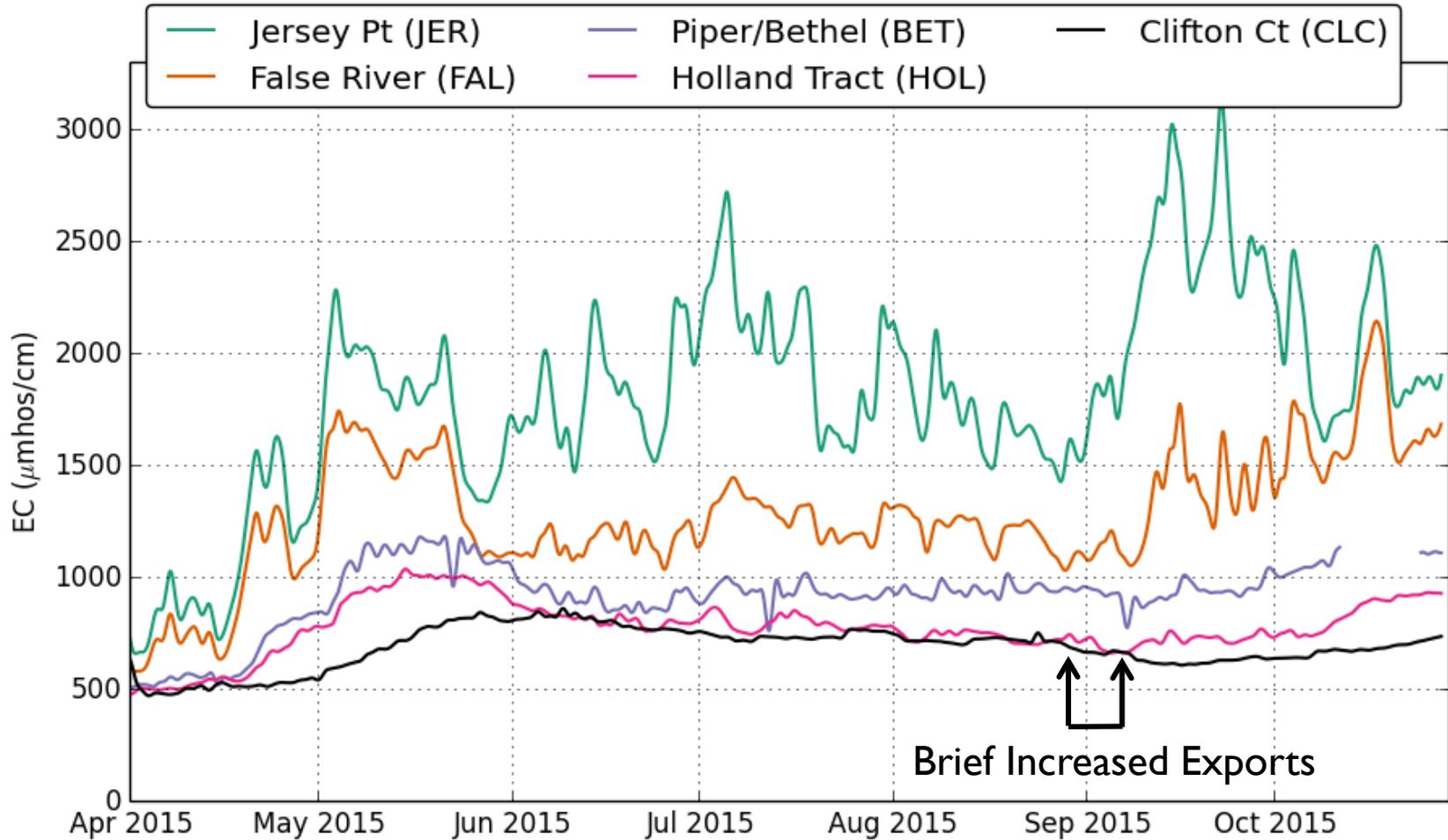
All values are tidally averaged

# Salinity Intrusion 2014 (no barrier)



All values are tidally averaged

# Salinity Intrusion 2015 (barrier)



All values are tidally averaged



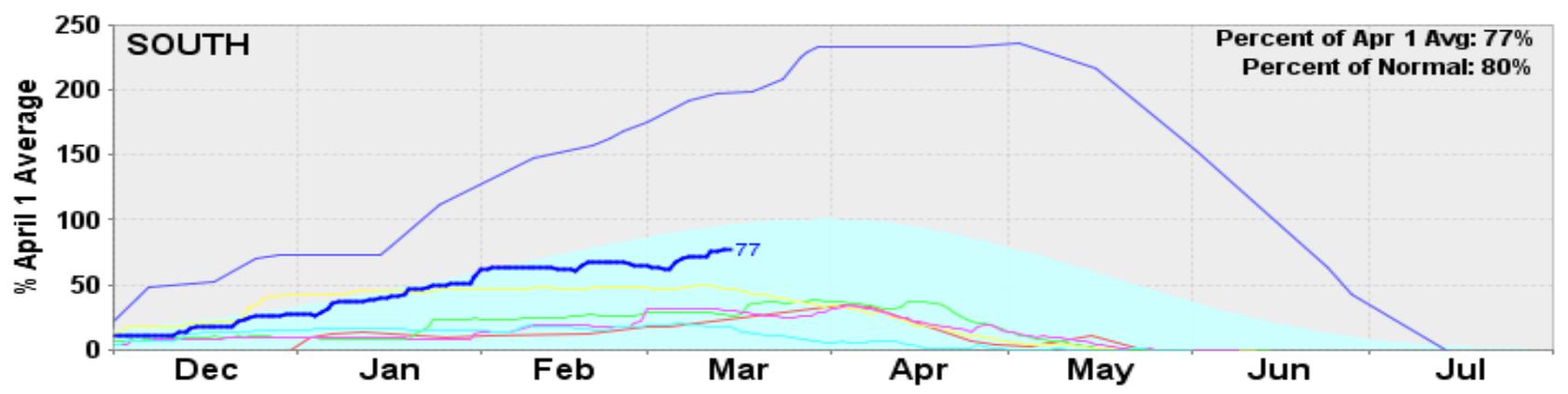
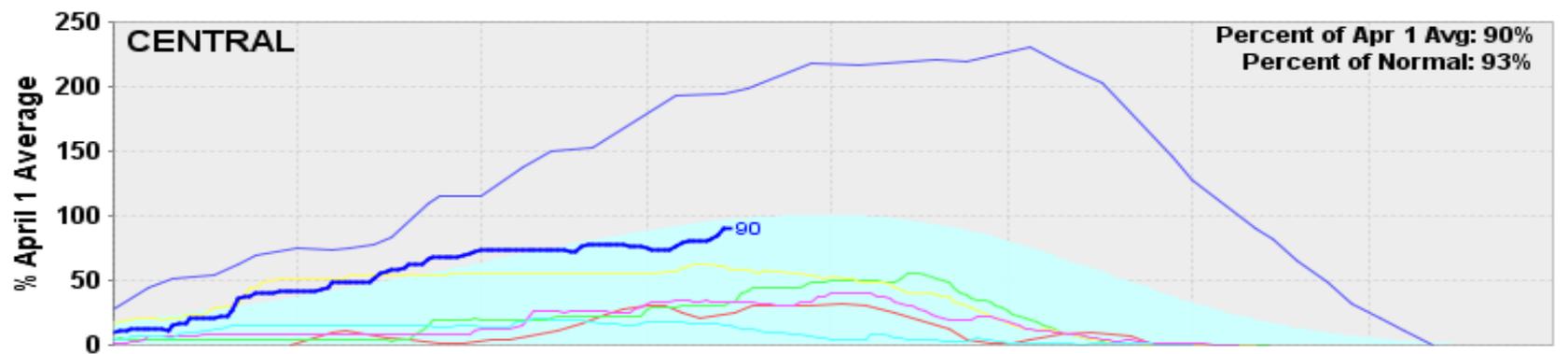
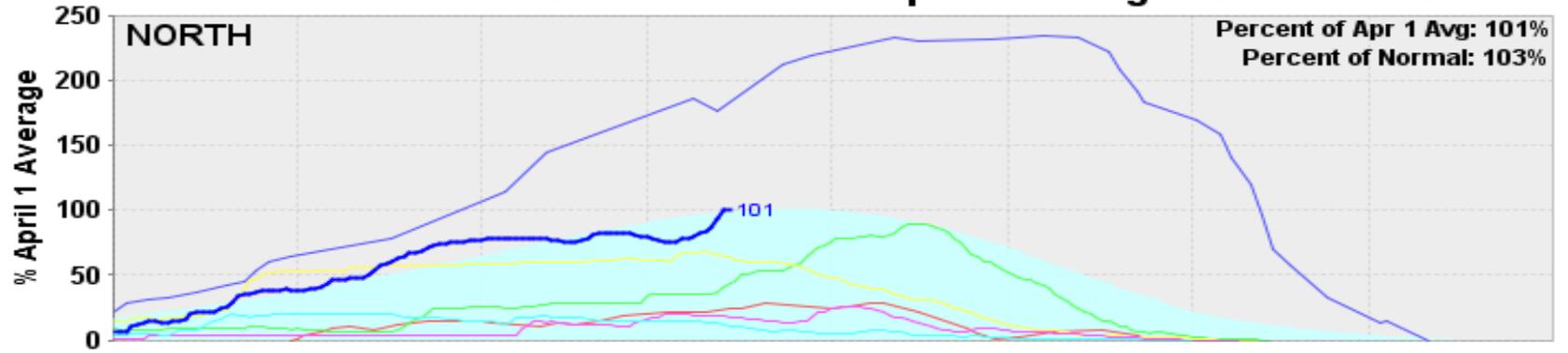


# How's 2016 Shaping up?

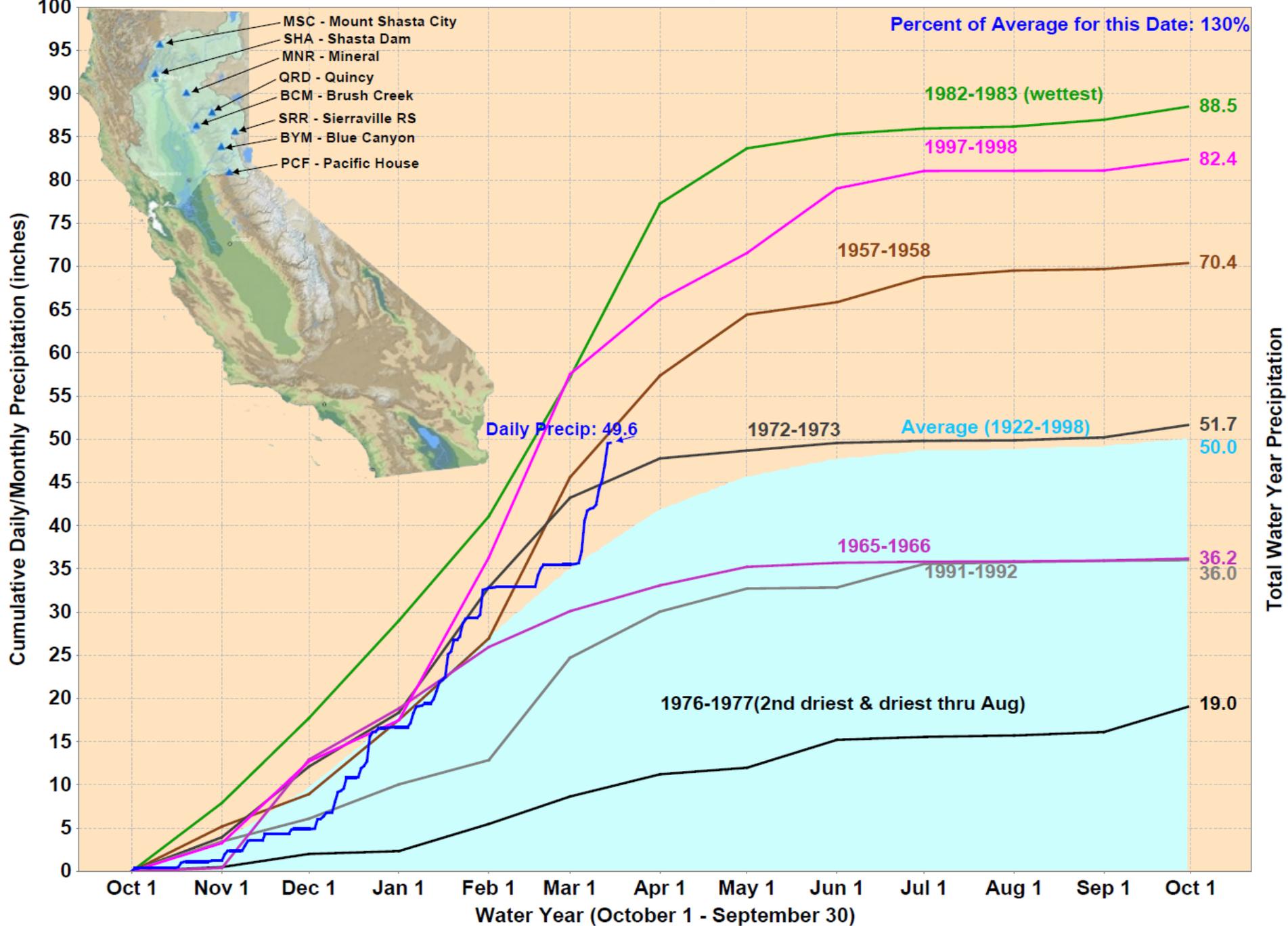
Answer:

Pretty Average

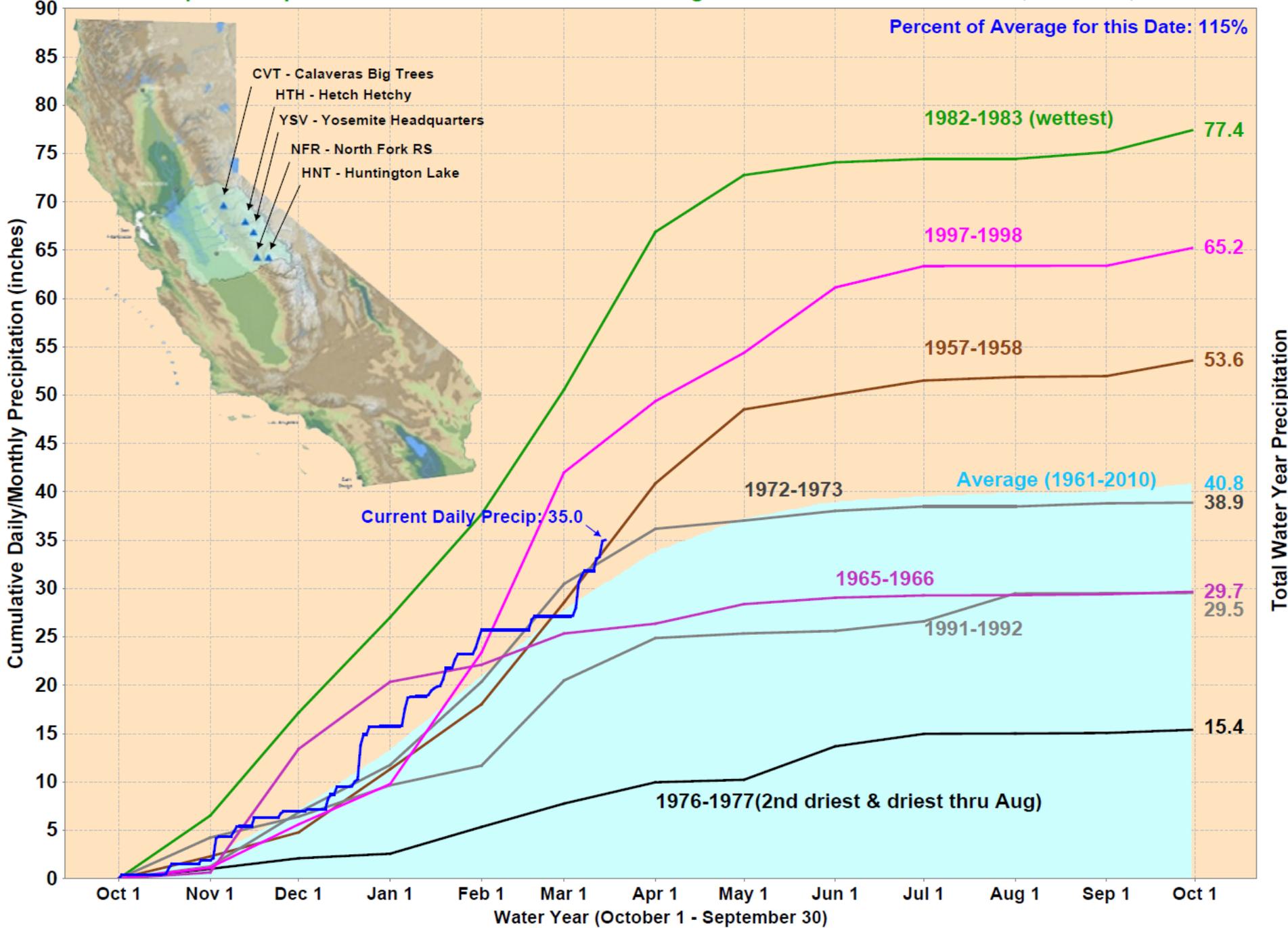
# California Snow Water Content - Percent of April 1 Average For: 15-Mar-2016



# Northern Sierra Precipitation Chart Includes Historical Strong El Nino Years: 8-Station Index, March 15, 2016



# San Joaquin Precipitation Chart Includes Historical Strong El Nino Years: 5-Station Index, March 15, 2016





Questions?

## Ranking of October-December El Niño episodes (ONI) since 1950

