



# 40<sup>th</sup> CDPW – Input from NOAA's Regional Climate Services Directors

James Partain, Alaska Region RCSD  
NOAA/NESDIS National Centers for Environmental Information  
Center for Weather and Climate

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NOAA Environmental Satellite and Data Information Service | National Centers for Environmental Information



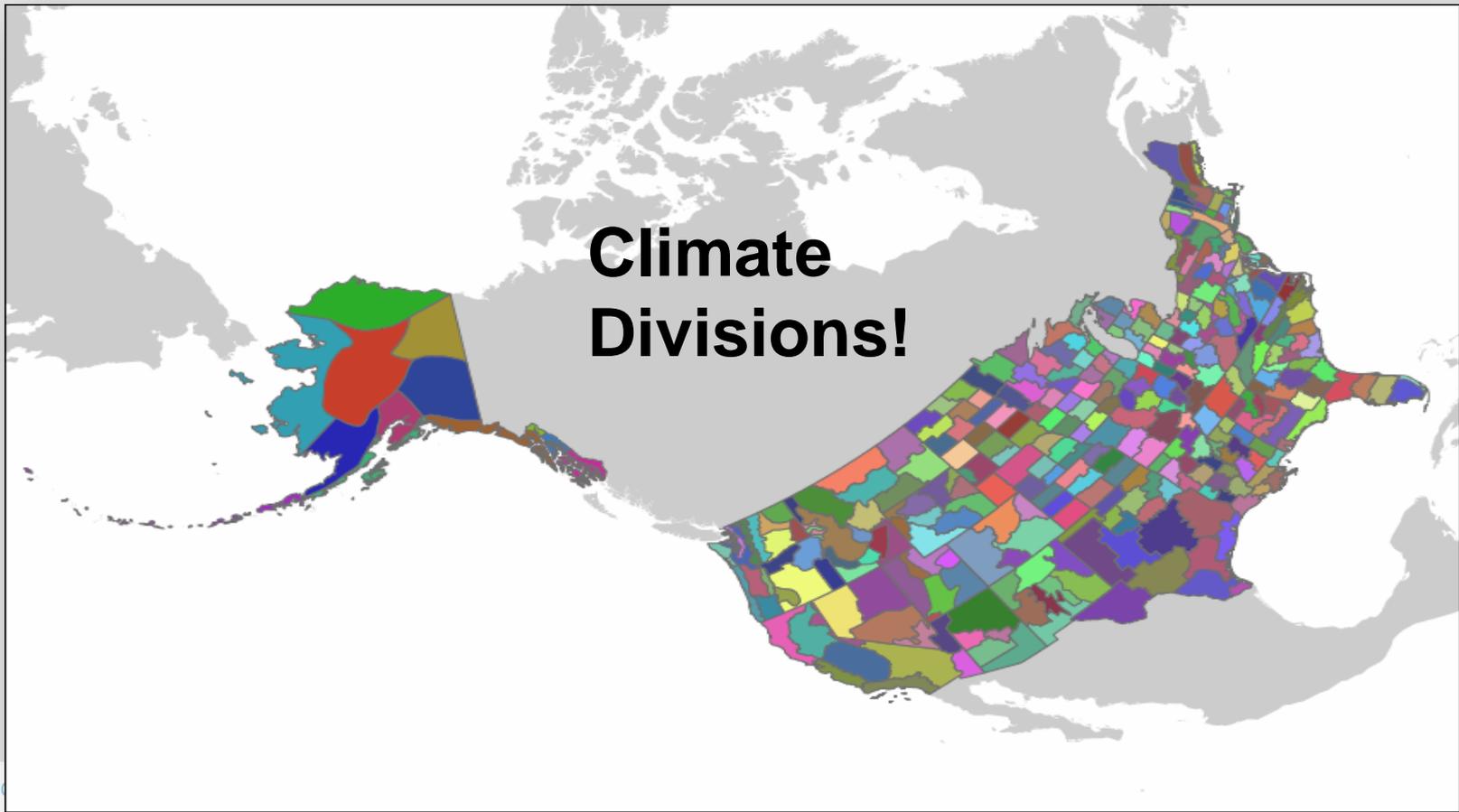


# Presentation Overview

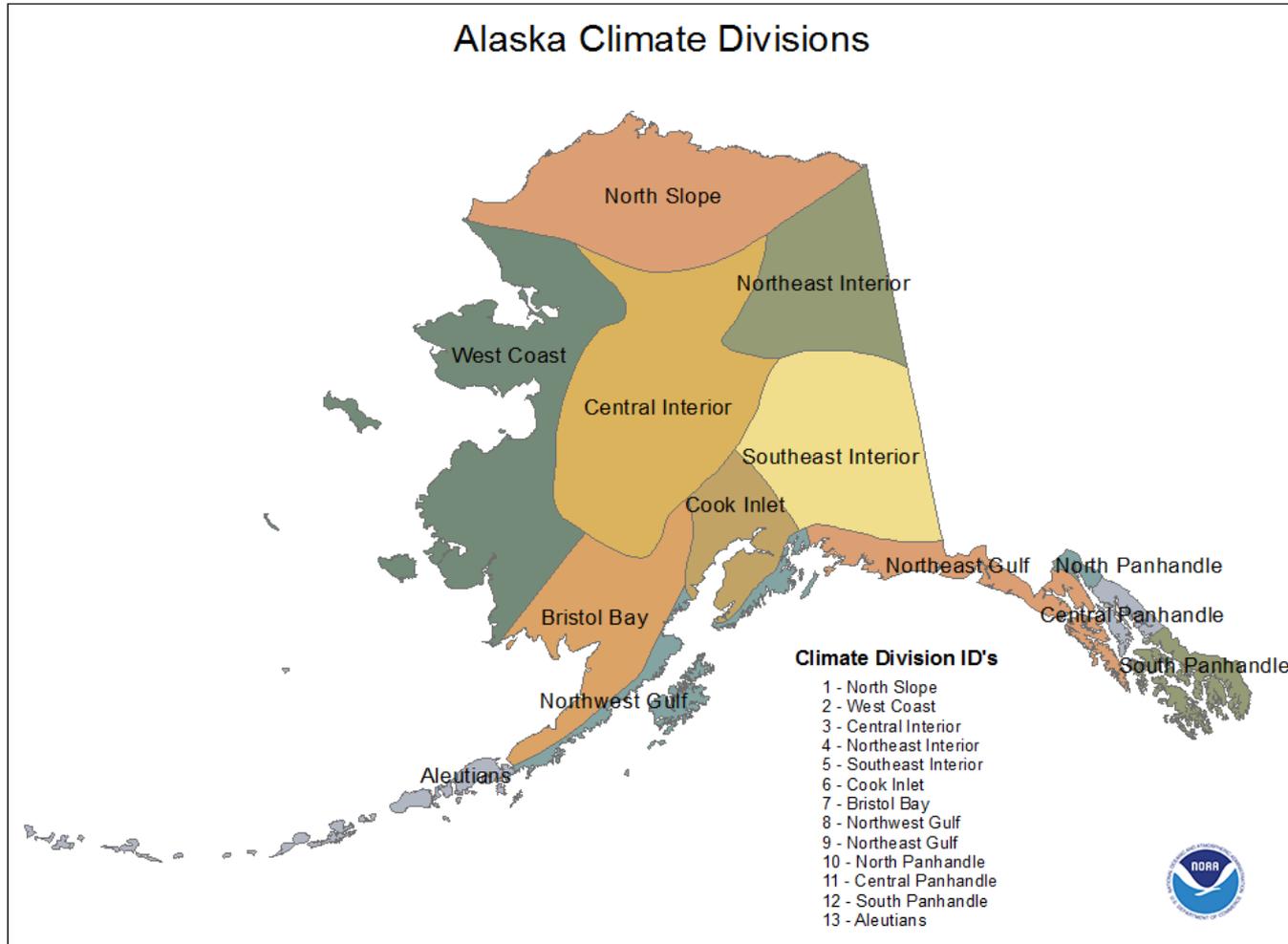
- Each RCSD (John Marra – Pacific, Kevin Werner – Western, David Brown – Southern, Doug Kluck – Central, Ellen Mecray – Eastern, myself – Alaska Region) was asked to provide input on the need and utilization of CPC operational Climate products
- I'll briefly discuss those inputs, and will summarize at the end of the presentation
- Slides will be made available through the workshop conveners
- Shameless plug for NWS' regional Climate Service Program Managers – without whom we wouldn't have nearly so much to say 😊

# Alaska Region Input – James Partain, RCSD

- 2015 Brought a Major Change with how we Deal with CPC and other Climate Producers (e.g. NCEI, WRCC):



# Alaska Region Input – James Partain, RCSD





# Climate divisions for Alaska – why?

- Inversely proportional to Alaska's need for climate- and climate-change-related products and services is the availability of such products and services
- Largely (and arguably) this is due to the lack of objectively-based climate divisions to aid in routine production of a CONUS-like suite of information products
- Decisions-makers need guidance in the now-, 8-12 day, 3-4 week, month, season, and longer ranges given the breadth of decisions to be made (relating to truly Alaskan challenges involving sea-ice loss, permafrost melt and other cryospheric changes, coastal storms and their attendant challenges, subsistence activities, energy production & conveyance, etc.)
- Climatology-based products are needed to establish important baselines for climate issues

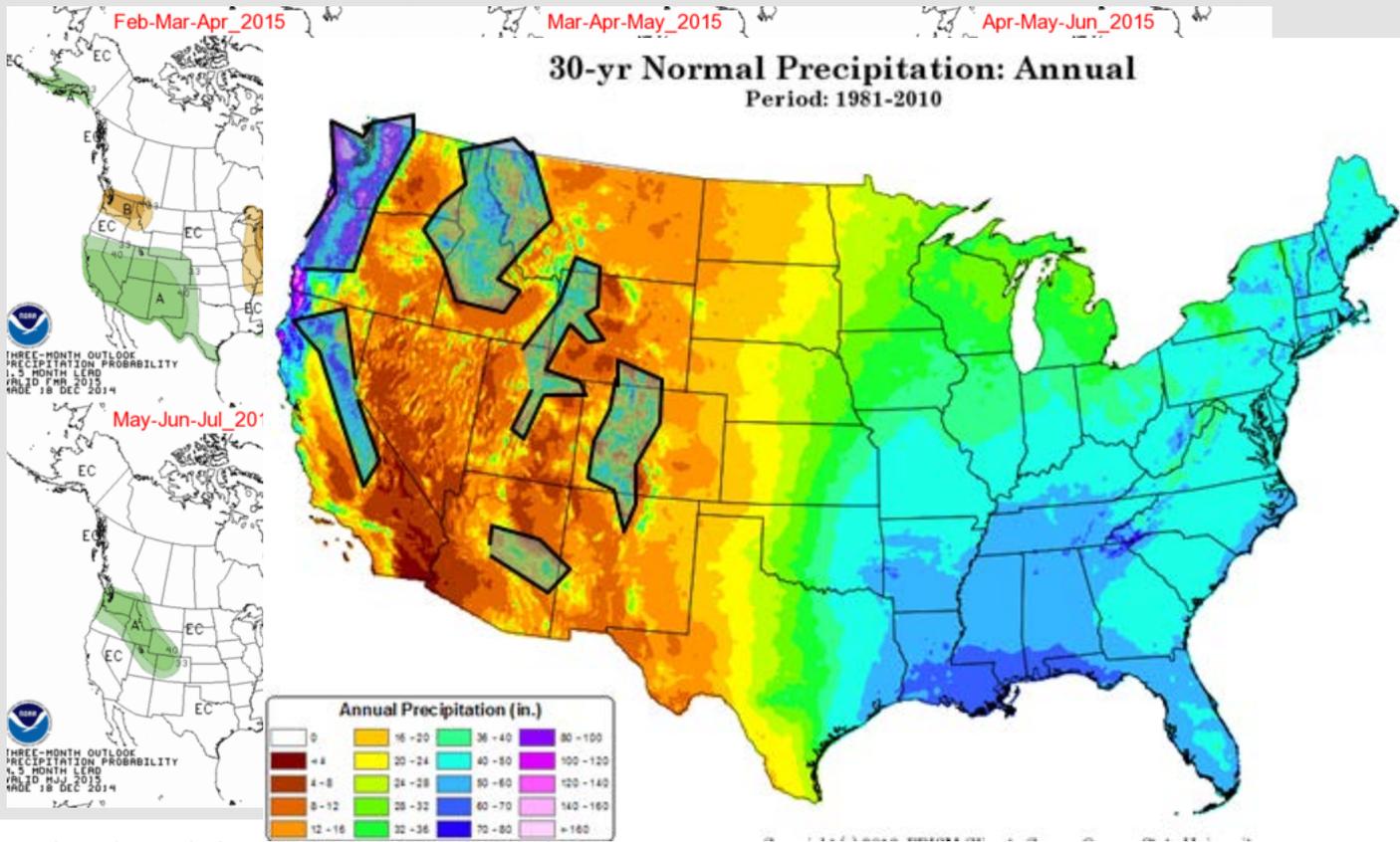


# Western Region Input – Kevin Werner, RCSD

- Improved Seasonal Prediction for Water Resources
  - Matching NOAA investments in science, data, and forecasts to stakeholder needs
    - Improve cool season precipitation forecasts and their application
- Improving NOAA collaboration with partner agencies and organizations
  - Best practices: Russian River Habitat Blueprint and Hydromet Testbed
    - Partner with other agencies to develop capabilities for full natural flow modeling and forecasting

# Western Region Input (cont.)

- #1 Stakeholder request: What is the forecast for the upcoming winter's precipitation?





# Southern Region Input – Dave Brown, RCSD

- In addition to echoing other RCSD's inputs:
  - with the introduction of the Week 3-4 temperature and precipitation outlooks, we are getting more interested in translating CPC's Week 2 thru 4 product suite for regional audiences
    - Helps strengthen the relationship between NWS regional operation centers and NCEI regional climate services in the process.
  - An example of how we are doing that is our (not yet released) Texas Week 2 hazards assessment outlook.

# Central Region Input – Doug Kluck, RCSD

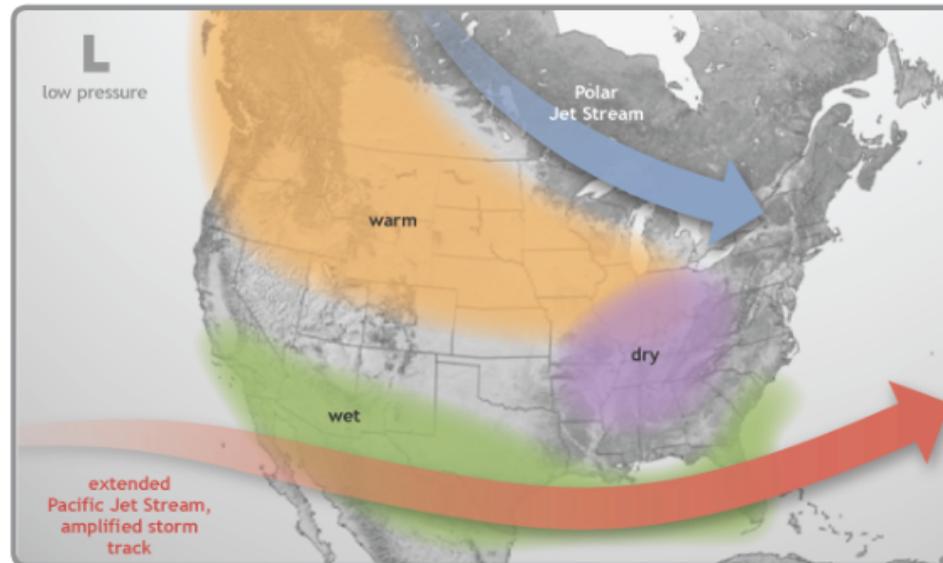
- CPC tools along with others help us produce sub-regional El Nino two-pagers, Quarterly Outlooks, Monthly webinars, etc

## El Niño Impacts and Outlook

## Midwest Region

September 2015

### Typical El Niño Winter Pattern



### El Niño in Winter

An El Niño develops when sea surface temperatures are warmer than average in the equatorial Pacific for an extended period of time. This is important to North America because El Niño has an impact on our weather patterns, most predominantly in the winter.

Although each El Niño is different, there are some general patterns that are predictable. For instance, the polar jet stream is typically farther north than usual, while the Pacific jet stream remains across the southern United States (see figure to left).

This pattern brings above-normal temperatures to much of the Midwest region, particularly across the northern states. This does not mean that cold weather will not happen this winter but typical extreme cold weather may be milder and less frequent. In addition, this pattern may bring drier conditions to eastern portions of the Midwest.



# Central Region Input – Doug Kluck, RCSD

“It's all about interpretation of technical mumbo jumbo for the masses, sectors and combining those outlooks with other more regional information from a wide variety of sources (RCCs, SCs, feds, states, tribes, academics). 3 key words: Interpret, Regional and Combining.”

Douk Kluck, circa now 😊



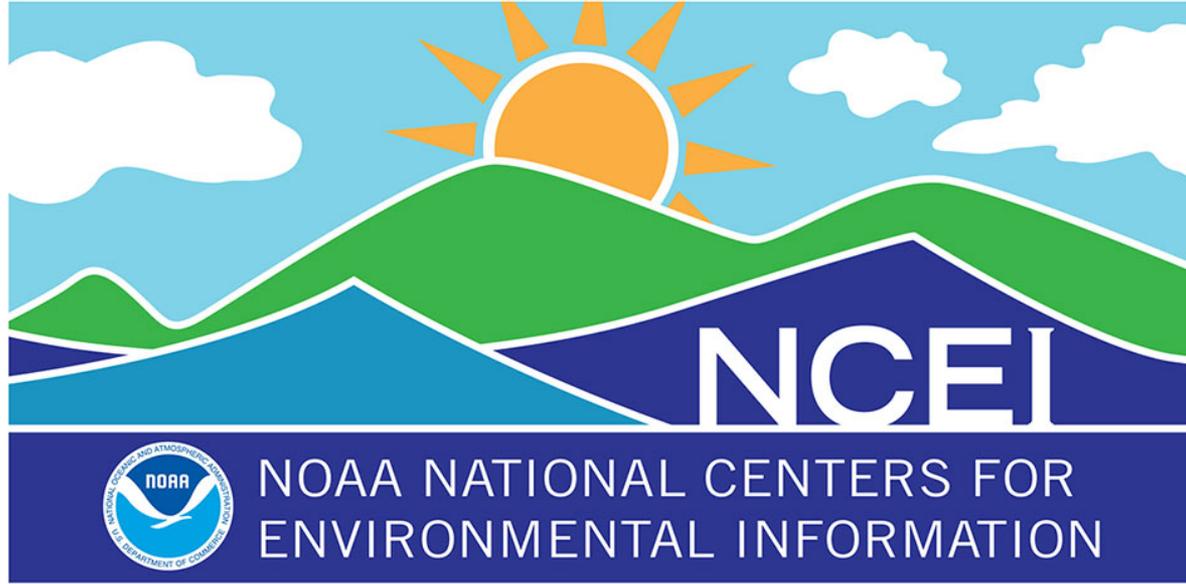
# Eastern Region Input – Ellen Mecray, RCSD

- 1) CPC has a representative on our monthly regional calls, to offer perspective from NWS
- 2) The CPC representative joins our quarterly calls to prep the outlooks we release, content and review.
- 3) CPC personnel are asked to serve as speakers on our monthly webinar series, on topics like hurricane outlook, seasonal outlook, ENSO
- 4) I occasionally run into users that offer feedback on the CPC products which I pass along directly to the POC for that product.
- 5) Along with other regions (e.g. Pacific Region), enthusiastic partners with CPC on ENSO Tiger Teams

# Thanks CPC!

CPC: On behalf of our partners, customers and stakeholders, thanks from the Regional Climate Service Directors!!





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