

El Niño Preparedness Community Meeting

December 15, 2015

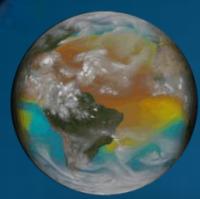


City of Hermosa Beach
Public Works, Police and Fire Departments
with the National Weather Service

Program Overview

- Welcome
- El Niño Updates; Impacts for Southern CA
- City Response Plan
- Preparing for El Niño: Before/During/After
- Stormwater Reuse Tips
- Useful links





El Niño Updates; Impacts for Southern CA

Eric Boldt

Warning Coordination Meteorologist

National Weather Service Los Angeles/Oxnard CA

December 2015

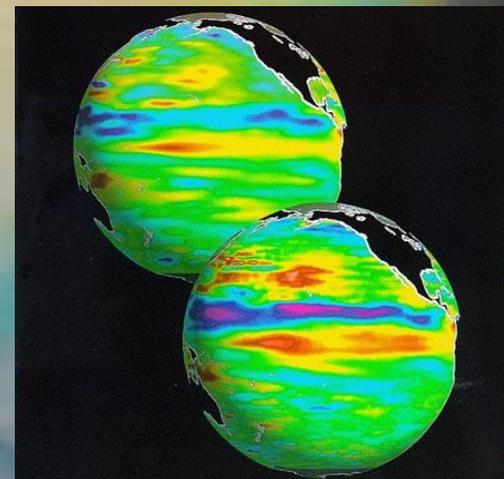


Latest ENSO* Information

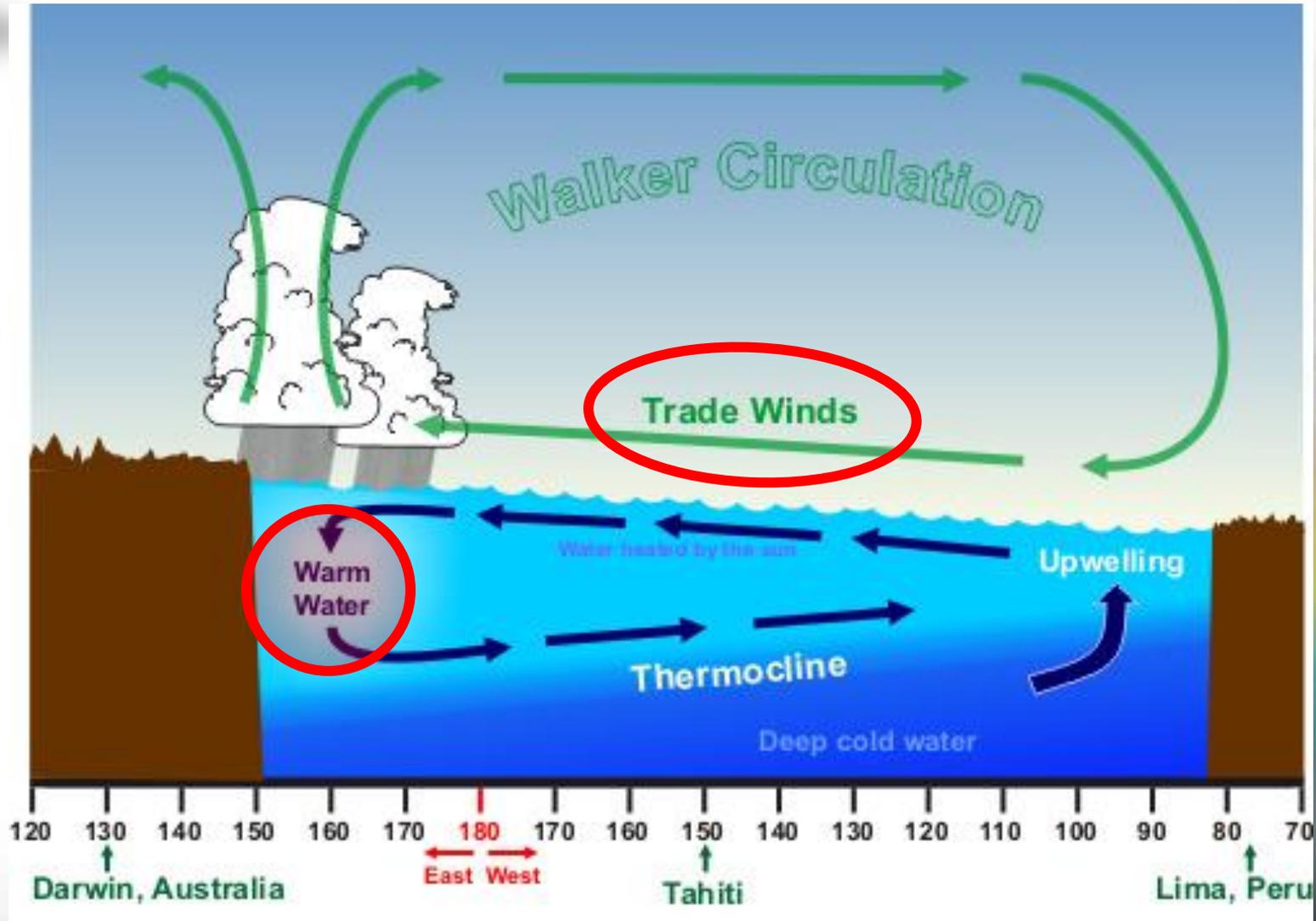
El Niño Advisory since March

- Ocean continues to reflect sustained and strengthening El Niño conditions
- El Niño has been in **strong** category since Oct. 1st
- Could rank among the top three strongest since 1950

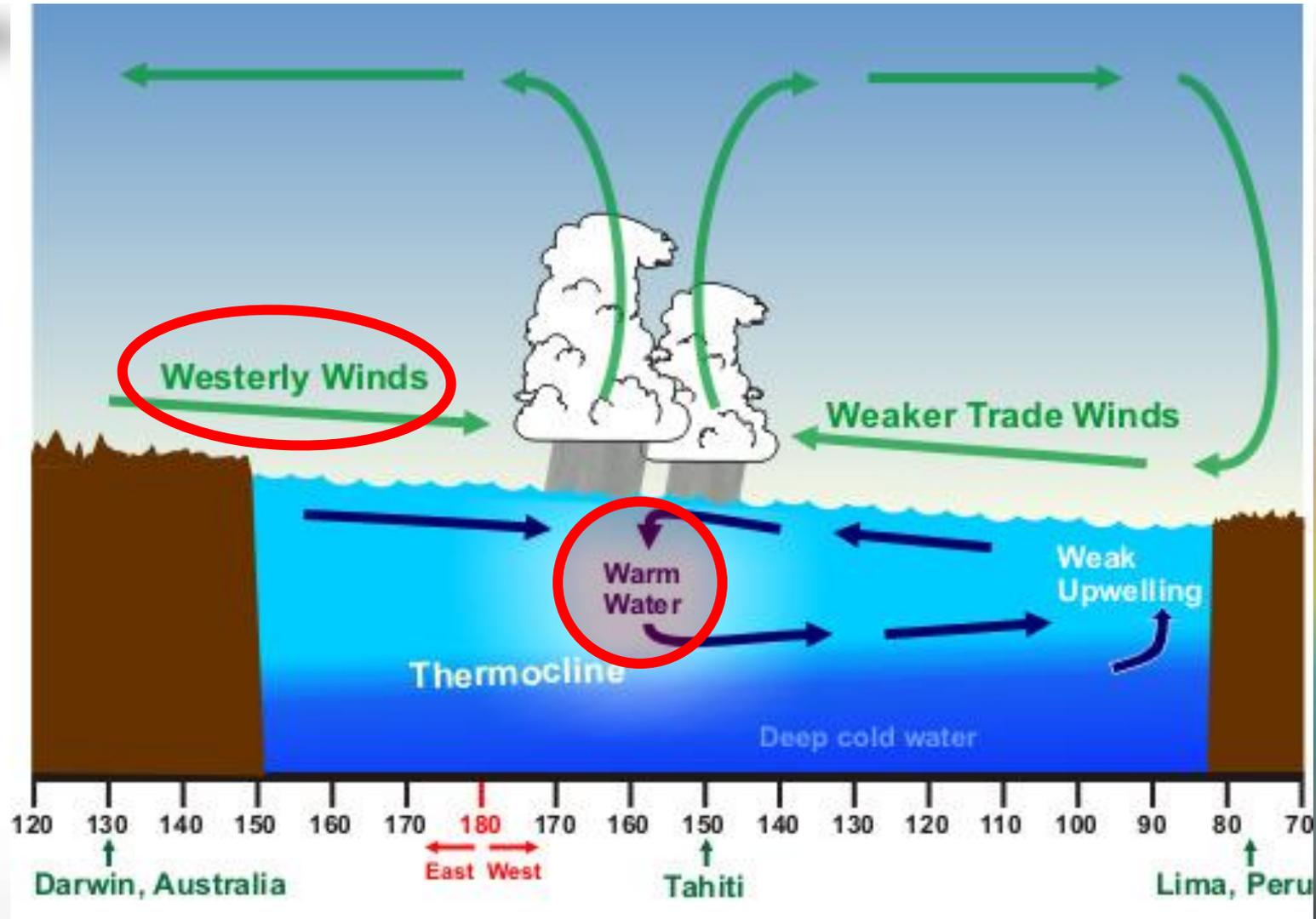
* ENSO stands for El Niño Southern Oscillation



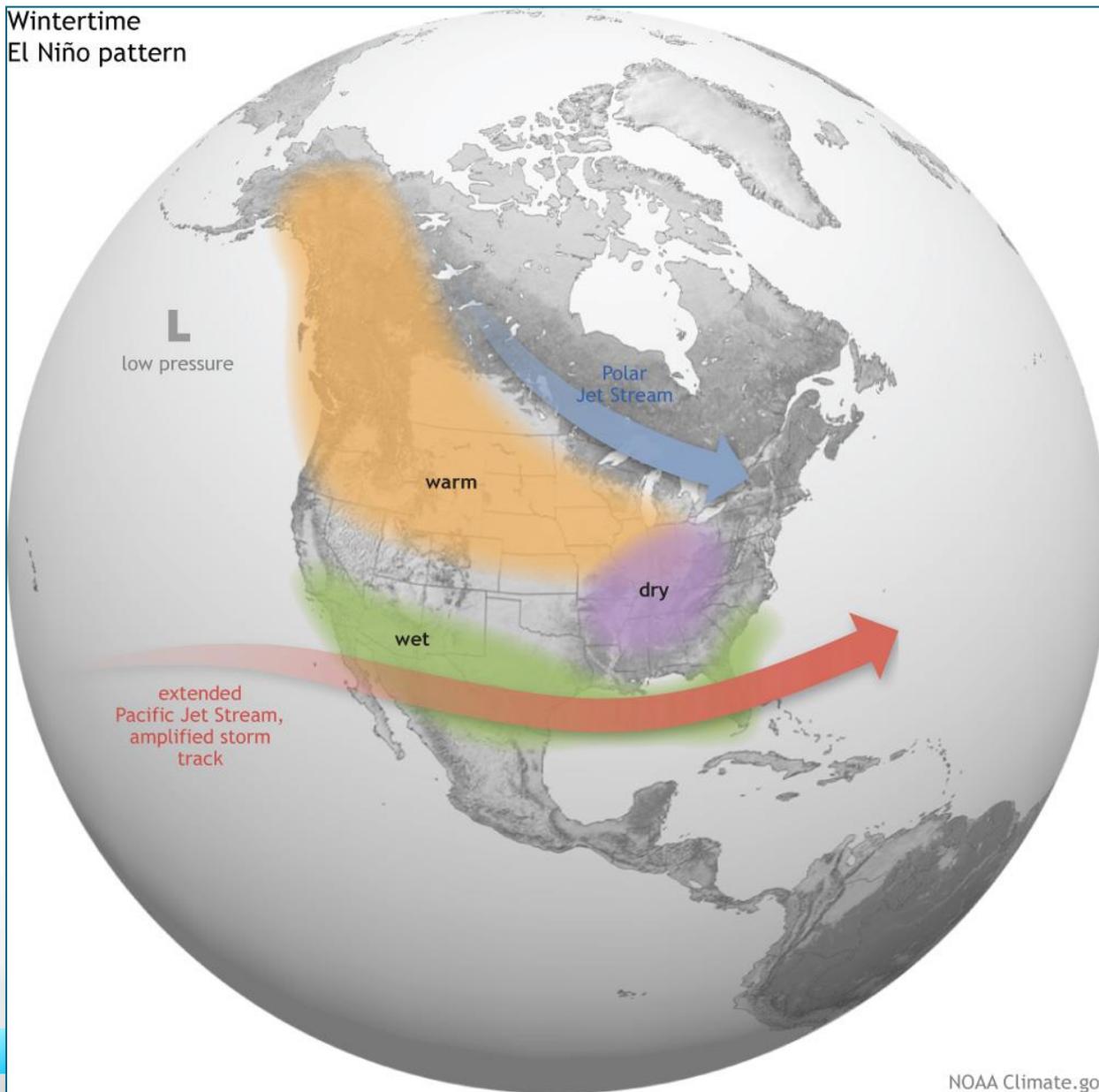
Normal Pacific Pattern



El Niño Pattern

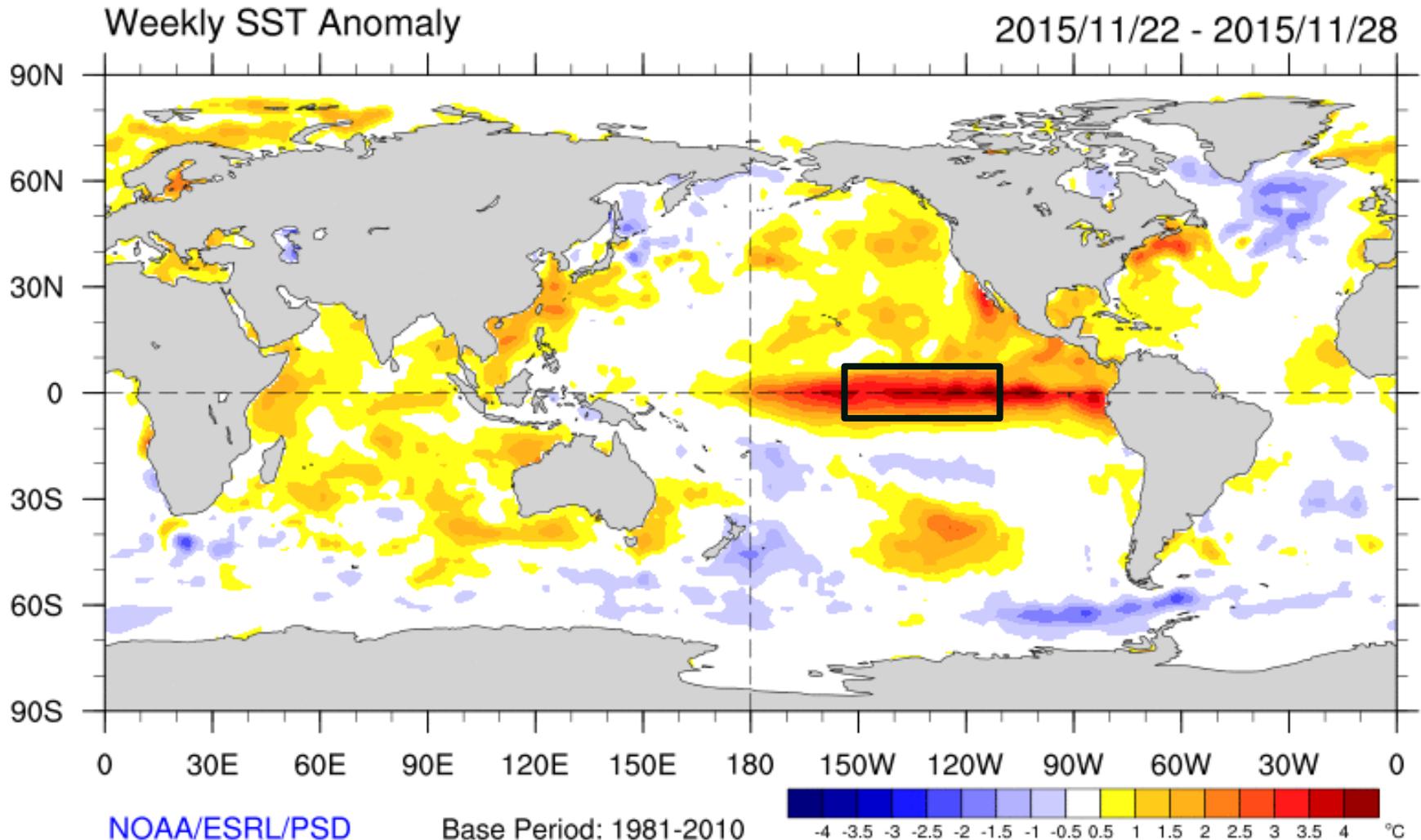


Classic El Niño Winter Impacts in North America

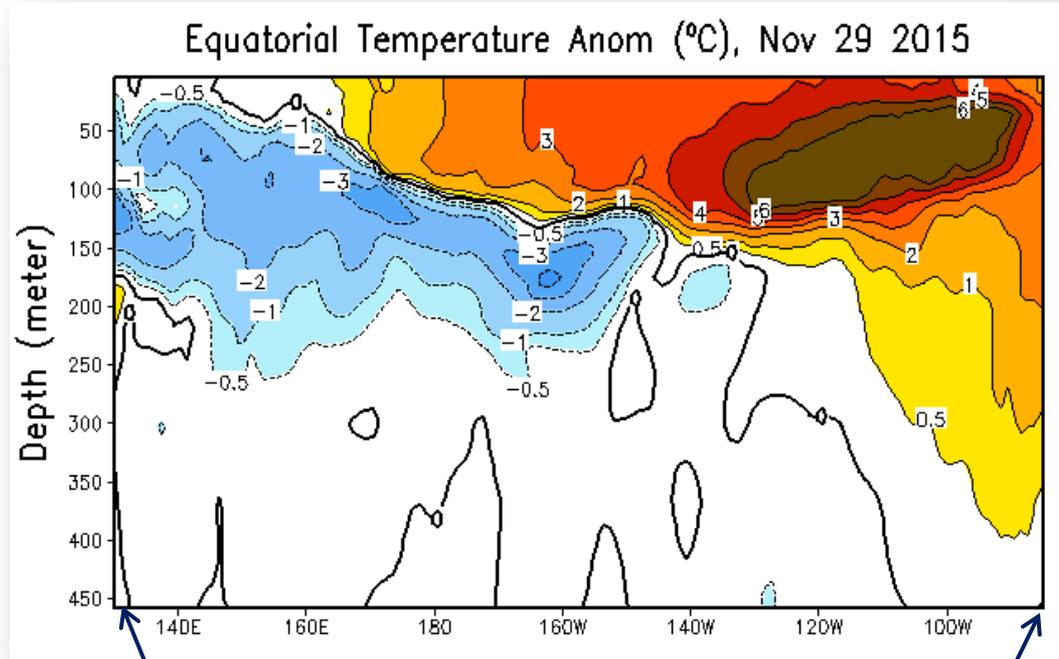


Latest SST Anomaly 2.9°C

Warmer water across the Central Pacific (black box is ENSO Region 3.4)

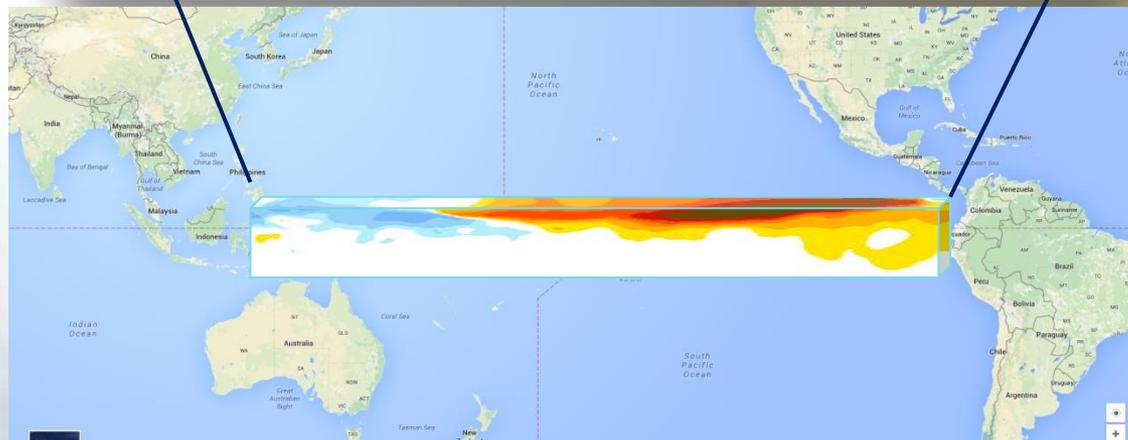


Sub-Surface Temperatures in the Equatorial Pacific (0-450m)

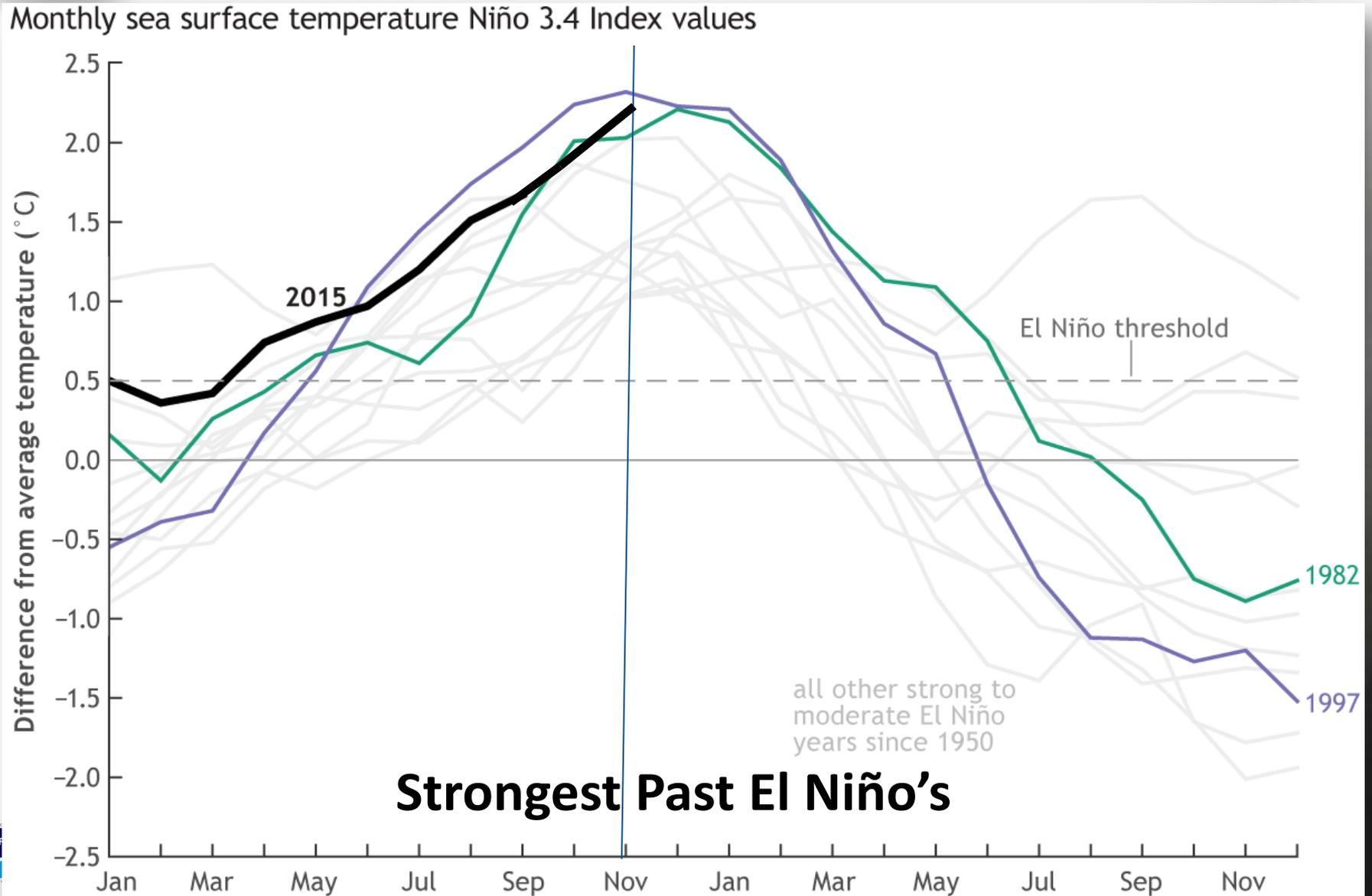


Ocean Surface

About 1,500 feet below

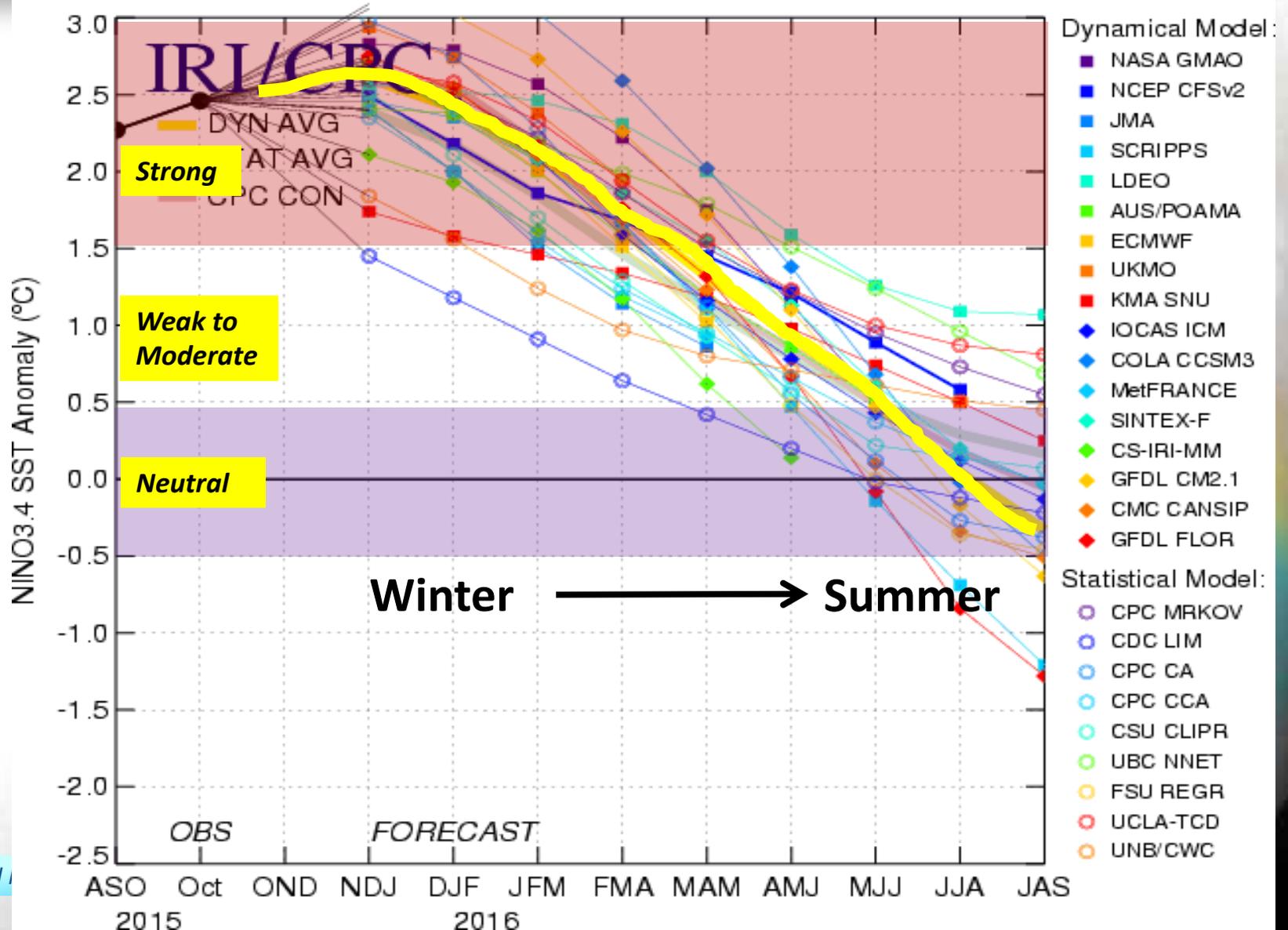


Where Does This El Niño Rank?



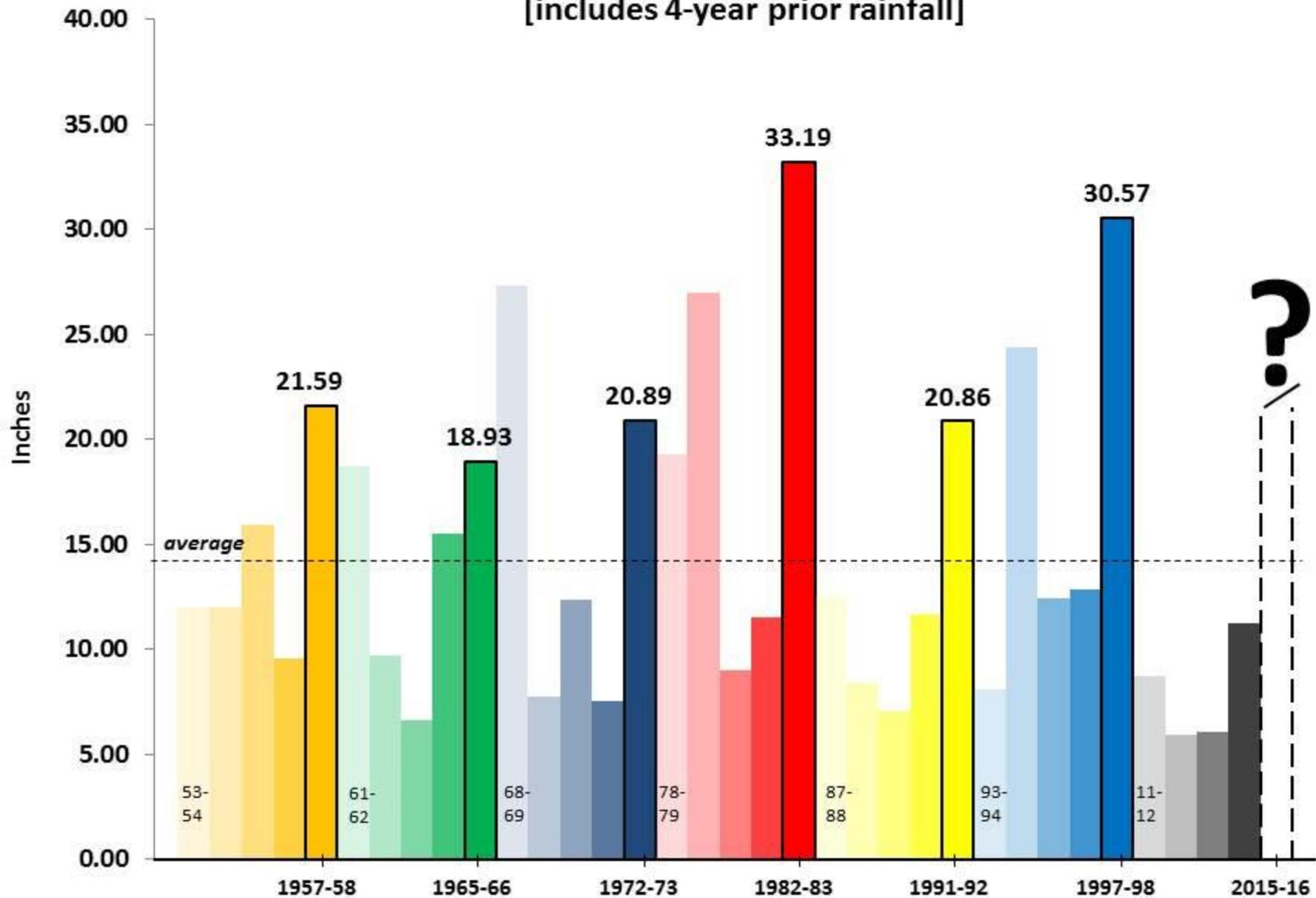
ENSO Model Predictions

Mid-Nov 2015 Plume of Model ENSO Predictions



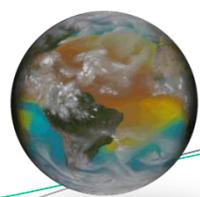
Past Strong (6) El Nino Rainfall in Los Angeles CA

[includes 4-year prior rainfall]



Strong El Niño Precip Results

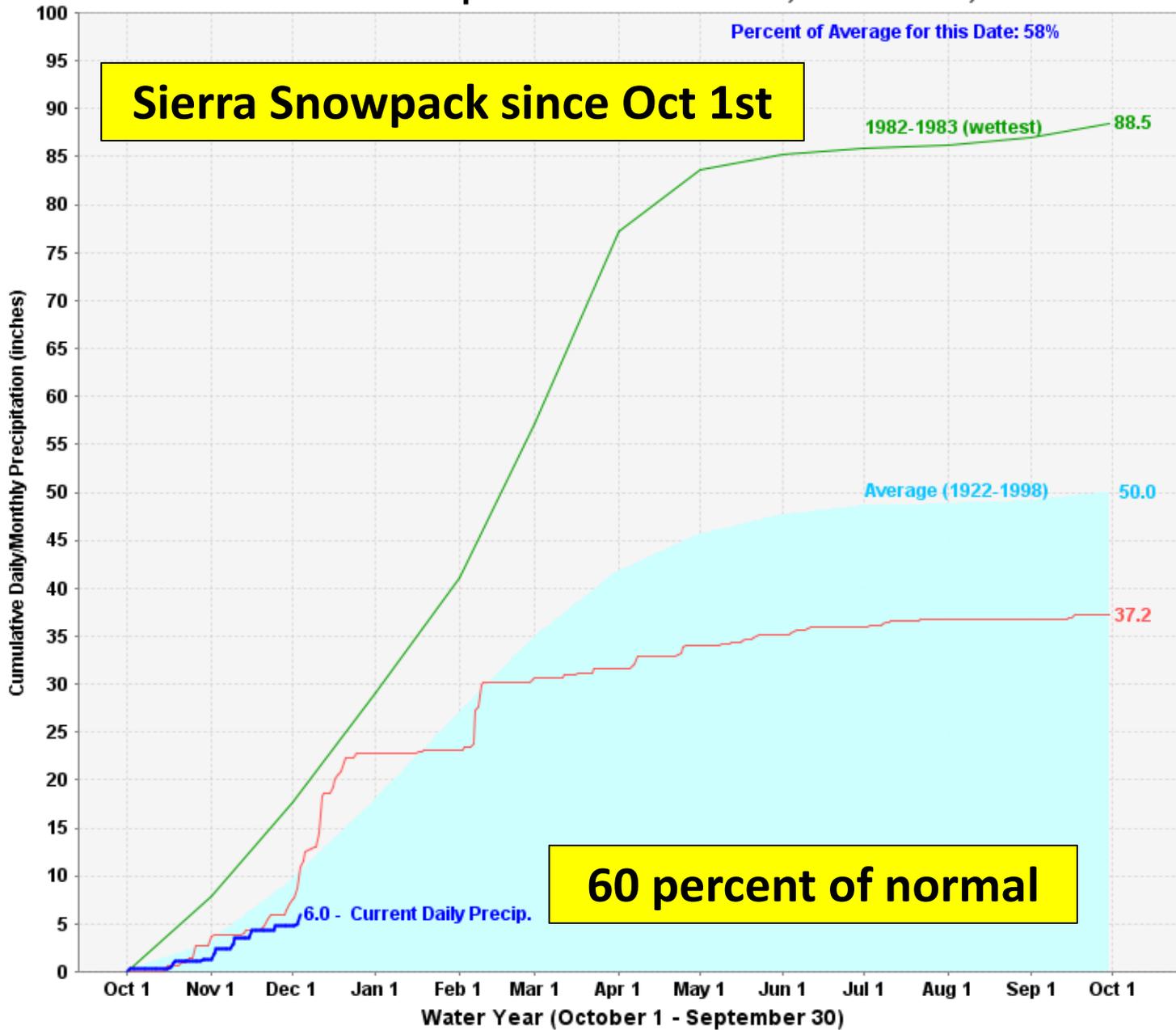




Northern Sierra Precipitation: 8-Station Index, December 4, 2015

Percent of Average for this Date: 58%

Sierra Snowpack since Oct 1st



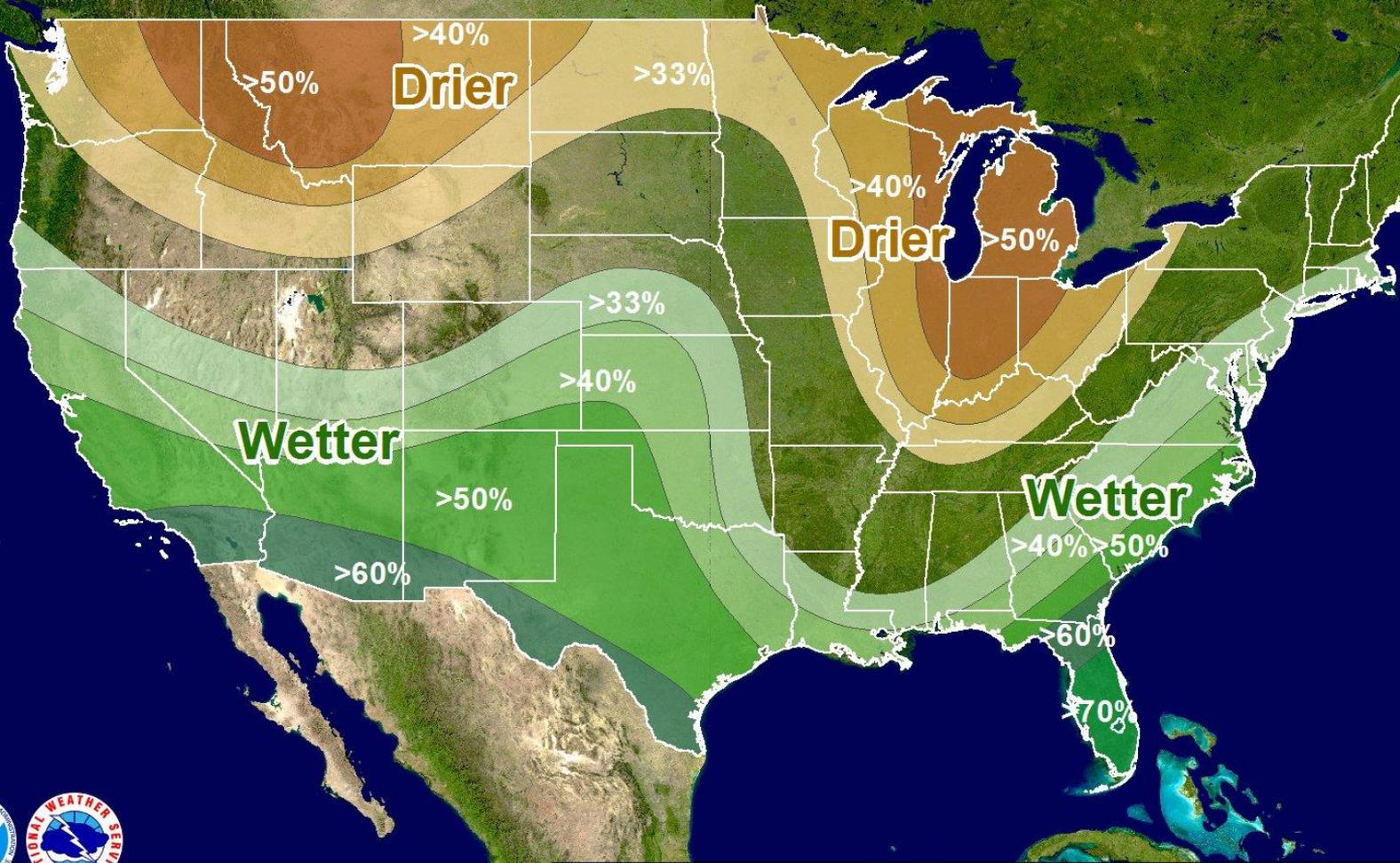
60 percent of normal

Average (1922-1998) 1982-1983 (wetter) 2014-2015 2015-2016 (current)

Total Water Year Precipitation

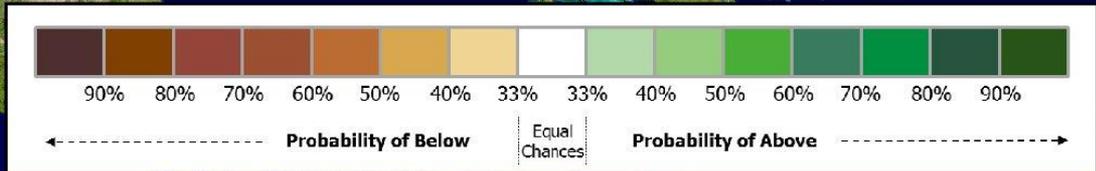
Seasonal Precipitation Outlook

Jan-Feb-Mar 2016



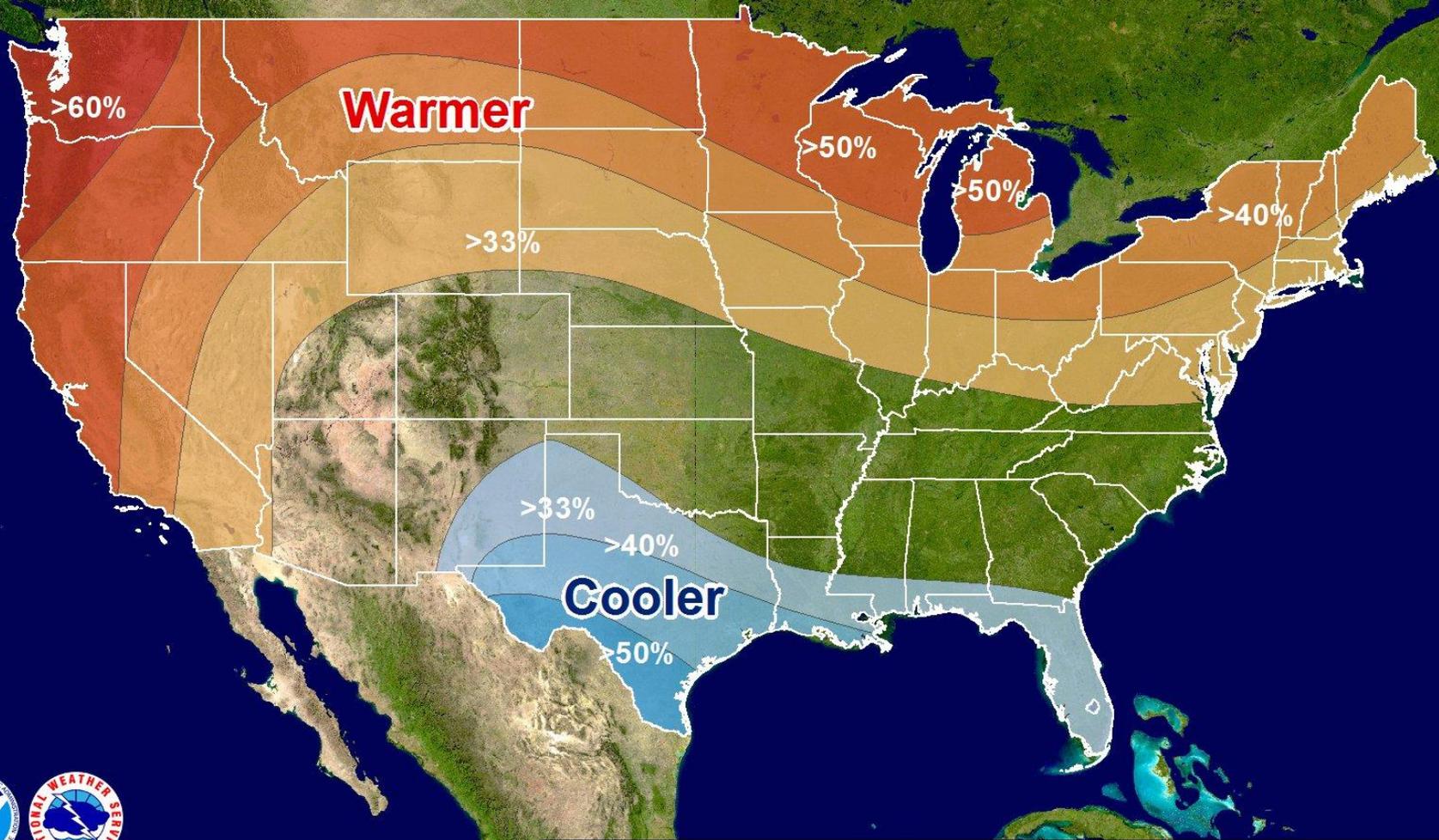
Climate Prediction Center

Issued: 11/19/15



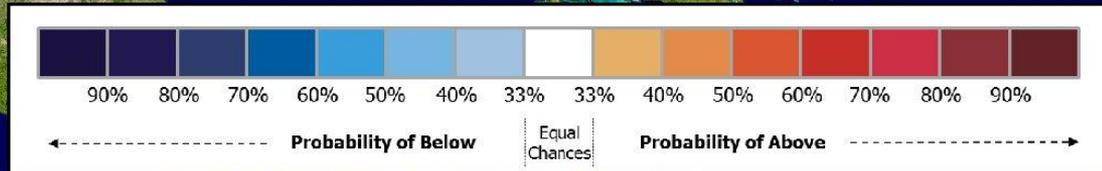
Seasonal Temperature Outlook

Jan-Feb-Mar 2016



Climate Prediction Center

Issued: 11/19/15



El Niño Conclusions

- El Niño *tilts the odds* of above normal rainfall for southwest California this winter
- **Strong** El Niño and among top three strongest
- One El Niño winter will not end the drought
- Wildfires remain a threat until we see widespread soaking rains



Potential Winter Impacts

- More **numerous** storms compared with other winters (especially January-March)



Coastal flooding

Potential Winter Impacts

- More **numerous** storms compared with other winters (especially January-March)



Coastal damage

Potential Winter Impacts

- More **numerous** storms compared with other winters (especially January-March)



Floods

T.A.D.D.

Turn Around Don't Drown®

Over half of all flood-related drownings occur when a vehicle is driven into moving flood water. The next highest percentage of flood-related deaths is due to walking into or near flood waters.



How much water will
float your car?



What Should People Do?

Stay Aware of Weather Predictions

- Follow NWS on social media and web
- Listen to local media on TV, radio, or Internet

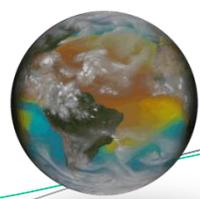
Prepare and Take Action

- Improve drainage and water issues now
- Check emergency kits; flood insurance?
- Receive warning notifications through NWS system or apps from FEMA, ARC, etc.

Watch/Warning/Advisory

Follow The Instructions of Local Officials When Provided

- **Flash Flood Watch:** Issued when **potential** exists for widespread flash flooding in next 12-48 hours.
- **Flash Flood Warning:** Dangerous, property and life-threatening flash flooding or debris flows are **imminent or occurring**.
 - NOAA Weather Radio alarm, EAS activation, and Wireless Emergency Alert.
- **Flood Advisory:** Nuisance flooding and/or small debris flows are **imminent or occurring**. Not considered a threat to life or property.



Thank You! Questions?

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You Tube

NWSLosAngeles



NWSLosAngeles

City Storm Response Plan

Ells Freeman, Public Works Superintendent

310-318-0214

efreeman@hermosabch.org



City Stormwater Drainage System

- Hermosa Beach drainage infrastructure:
 - 13 Miles of Storm Lines
 - 300 Catch Basins
 - 11 Beach Outfalls



Pre-storm Maintenance Tree Pruning

- Minimize tree uprooting, branches breaking, and reduce possible hazards to the public right of way.
- Have trees near power lines and windows trimmed



Pre-storm Maintenance Cleaning and Servicing Catch Basins (Maintenance Program)



Pre-storm Maintenance

- Prepare pumps and generators for dewatering needs.
- Clear sand away from storm drain outfalls on beach.
- Fill sand bags.
- Construct sand berms protecting the strand wall openings from ocean surges.
(El Niño)



Pre-storm Maintenance Equipment

- City Council approved for a new front loader delivered on August 19, 2015.
- Front loader will be used for beach operations.



Equipment



Equipment



City Storm Response Plan

- Crews will monitor weather conditions and tide predictions.
- Crews continually inspect catch basins for blockages.
- During rains crews will continuously monitor the storm drain outfalls on the beach.



City Storm Response Plan

- Sand bags and pump equipment will be on the truck for fast response when needed.
- Crews maintain communication with LA County Harbor and Beaches during an emergency situation.



Sand Bags

- 10 filled bags per household
- Additional empty bags available

Location of Sand Bags

- PW Yard – 555 6th Street



Storm Preparedness

Milton McKinnon, Police Captain
310-318-0302
mmckinnon@hermosapolice.org



HBPD Preparedness Tips

- Before a Flood (emergency)
- Prepare your home
- Prepare your vehicle
- What to do during the emergency

***PREPARATION IS KEY
TO MINIMIZING POTENTIAL IMPACTS***



Before a Flood (emergency)

- Stay informed
 - ✓ Nixle
 - ✓ www.weather.gov
 - ✓ Local news
 - ✓ City website/E-news
- Is your home in a potential problem area?
- Practice alternate routes to/from home & school
- Have a family communication plan
- Assemble your emergency kit
- Keep electronics charged



Prepare Your Home

- Do your windows close and lock securely?
 - Check weather-stripping for proper seal
 - Deadbolts at 1” in length & case-hardened steel
 - Doors to be solid construction and solid frame
- Are your address numbers clearly posted & visible?
- Clear landscaping from window/door/roof areas
- Verify your alarm system is in proper working order
 - Schedule a service call, if needed



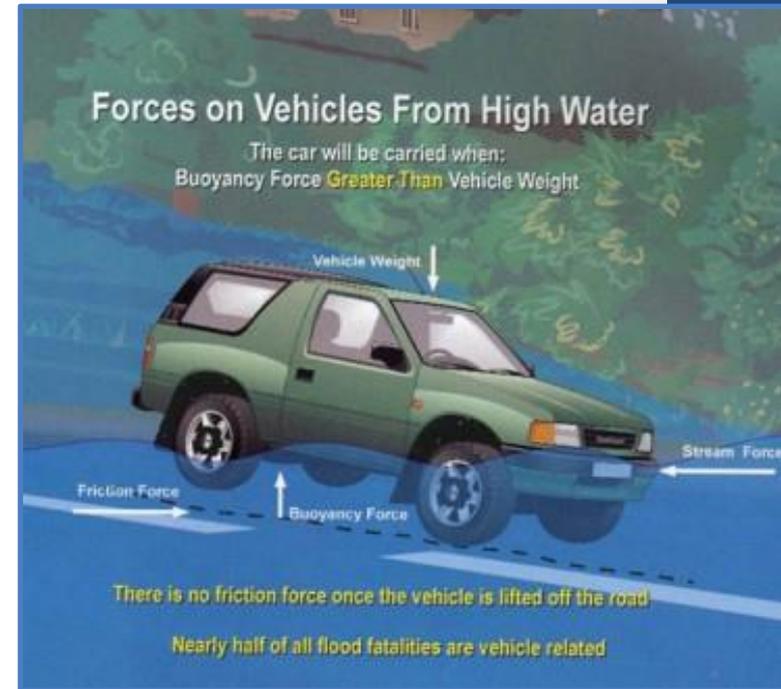
Prepare Your Vehicle

- Is it time for new tires? To maintain contact with the road in wet weather, tires "should have at least 50% of tread life left
- Get to know your braking system: Brakes should be checked and worn brake pads replaced, no matter the weather. Know that "cold, wet brakes do not work as well as warm, dry brakes
- Purchase new wipers: A rainstorm is not the time to realize they cannot effectively clear your windshield effectively
- Always keep at least ½ tank of gas in your car in case you have to evacuate.



During a Flood

- Stay informed
- Follow all evacuation orders and heed warning signs
- If you have time, disconnect utilities and appliances if you have to leave
- Avoid flood waters – It is NEVER safe to drive or walk through flood waters



When the water rises...



Most flood-related deaths & injuries could be avoided if people followed this simple advice:

- TURN AROUND DON'T DROWN
- 6 inches of fast-moving water can knock an adult off of his/her feet and sweep them away
- 12 inches of moving water can carry off a small car
- 18-24 inches of water can carry away trucks, vans and SUVs



Storm Preparedness

Pete Bonano, Interim Fire Chief
310-376-2479
pbonano@hermosabch.org



HBFD Preparedness Tips

- Stay informed of weather conditions
- Be prepared for possible power outages
- Keep flashlights/batteries in multiple locations
- Turn off electric breakers if home starts flooding
- Be ready to evacuate and know safest routes

***PREPARATION IS KEY
TO MINIMIZING POTENTIAL IMPACTS***



Power Lines

- Treat All Downed Wires as Live Wires
- Report Any Downed Power Lines to 911



- Clear drains of debris
- Test sump pumps to ensure they work
- Talk to your neighbors: If your house lies below another house, you'll want to find out where their property drains



Below Grade Garages and Yards

- If your home drainage system relies on pumps consider purchasing a generator
- Secure your yard: Reinforce your fencing if needed. Store or tie down anything that might blow and cause damage in high wind



Useful El Niño Links

- **Police, Fire and Public Works Departments**

Non Emergency 24/7, call (310) 644-7403

Life Threatening Emergency 24/7, call 911

- **National Weather Service**

www.weather.gov

- **Outage Center - Southern California Edison**

www.on.sce.com

- **ALERTS: Flash Floods, Roads Closed, Wind**

www.lacounty.gov

- **Storm Weather Safety Tips**

<http://www.youtube.com/watch?v=mjzpXVRB2nw&feature=youtu.be>



city of

HERMOSAbeach

THE BEST LITTLE BEACH CITY

in the spotlight



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[El Nino Winter Weather Preparation](#) (under construction)

[AES Information](#)

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california

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[City of Hermosa Beach Details Construction Updates at Fire Department and Police Station](#)

[SANTA'S SLEIGH SCHEDULE](#)

[Deadlines for Public Review of Skechers EIR](#)

[City Hosts El Nino / Winter Weather Community Meeting](#)

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more

upcoming events



[Farmers Market on Pier Plaza](#)
December 9, 2015 11:00AM - 4:00PM

[Santa's Sleigh Schedule](#)
December 9, 2015 5:30PM - 9:00PM

[Hermosa Beach School Board Meeting](#)
December 9, 2015 6:00PM - 10:00PM

[THIS MEETING HAS BEEN CANCELLED Planning Commission Meeting](#)
December 9, 2015 7:00PM

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more

