

# EL NIÑO 2015-2016

PRESENTED BY



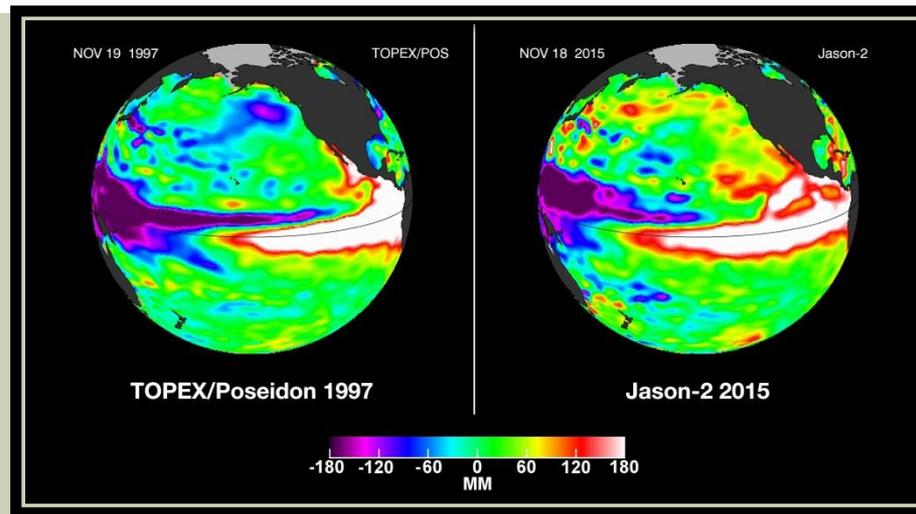
Disaster  
Preparedness

- I. The Science of El Niño**
  - a. National Weather Service – NOAA
  
- II. LA County Office of Emergency Management**
  - a. County of Los Angeles Chief Executive Office
  
- III. City Preparedness Efforts**
  - a. Monrovia PD and Evacuation Planning
  - b. Emergency Operations Center
  - c. Shelters
  - d. Red Cross
  
- IV. For Residents**
  - a. Tips for Homeowners
  - b. Conducting Property Assessments
  - c. Take Action!
  - d. Stay Connected

**OUTLINE OF  
TOPICS TO  
BE  
COVERED  
TODAY**

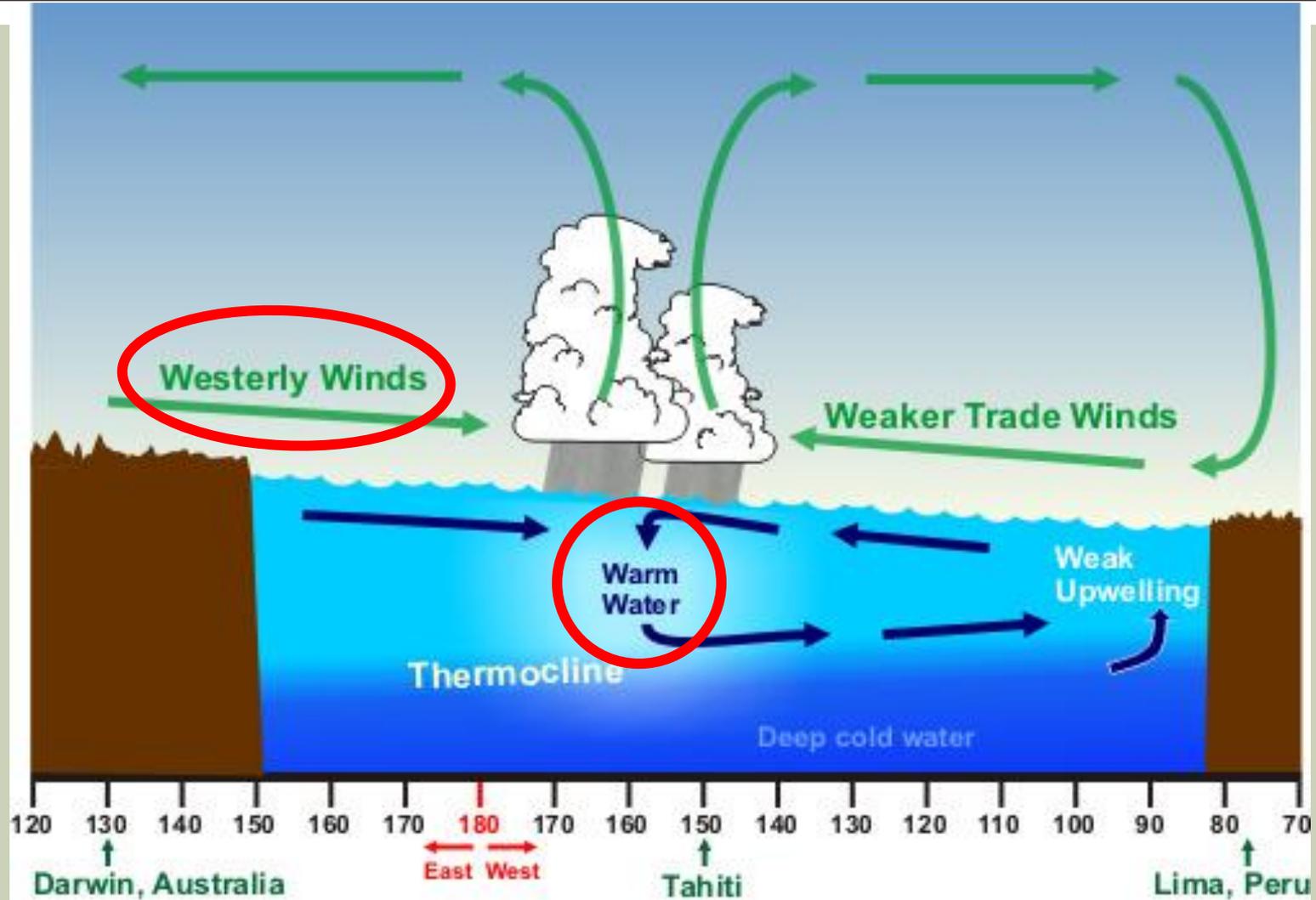
**Thank you**

# THE SCIENCE BEHIND EL NIÑO



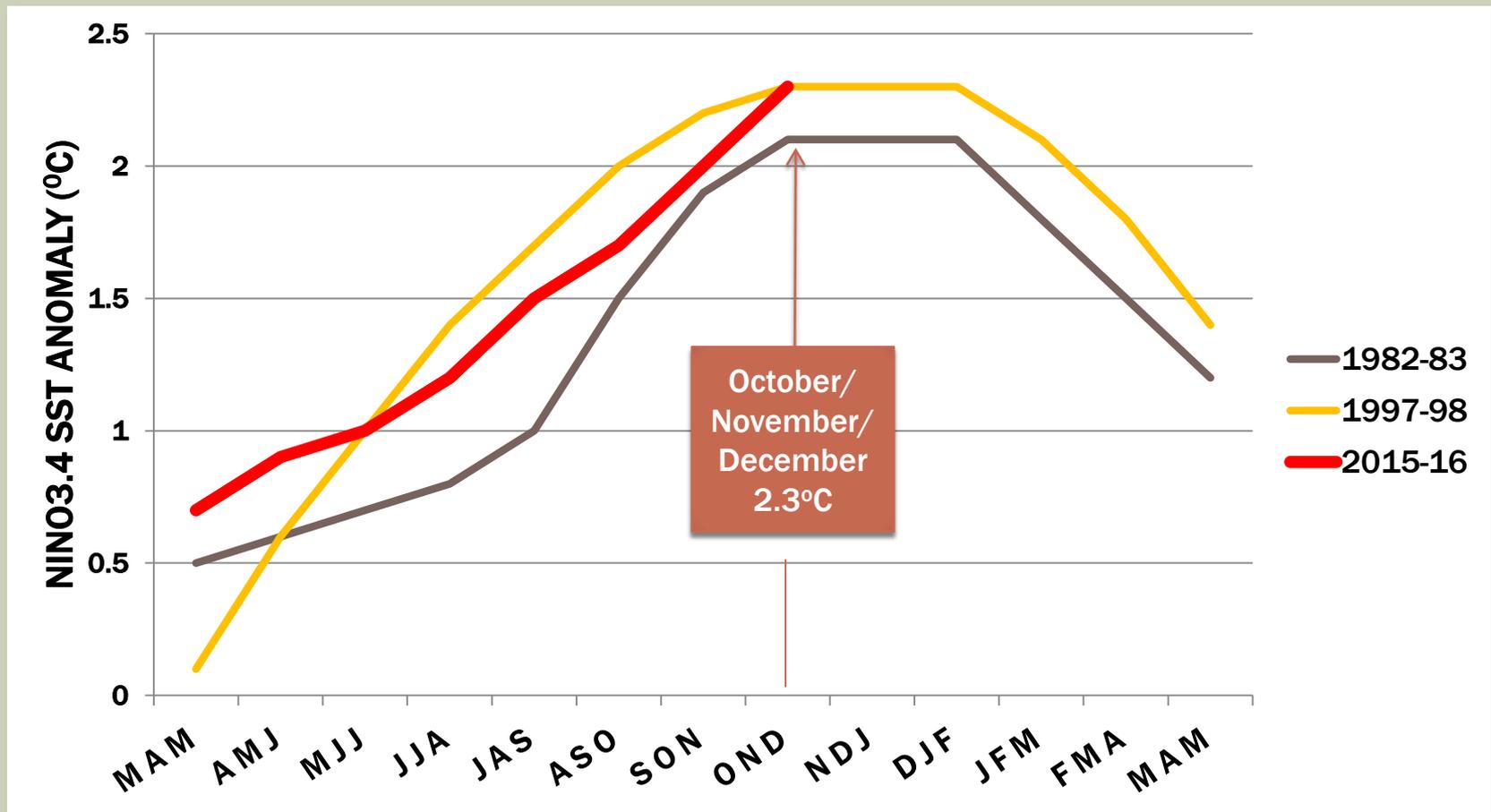
- El Niño started last March and has been in a *strong* category since October
- Could rank as one of the strongest events since records began in 1950
- El Niño tilts the odds of above normal rainfall for Southwest California this winter

# EL NIÑO PATTERN



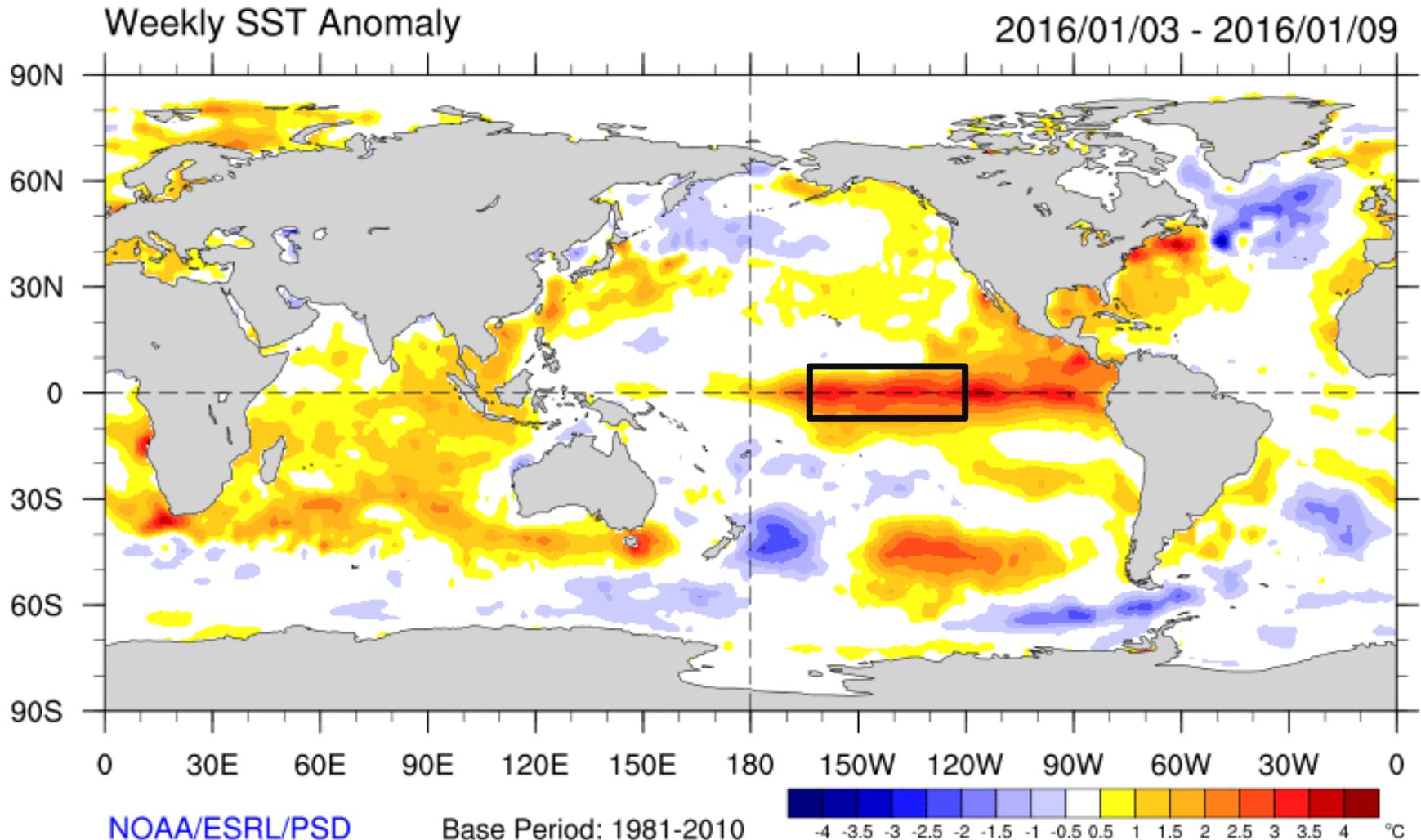
# WHERE DOES THIS EL NIÑO RANK?

3-Month Averaged Sea Surface Temperature Anomalies in the Central Equatorial Pacific for the Strongest El Niño Events



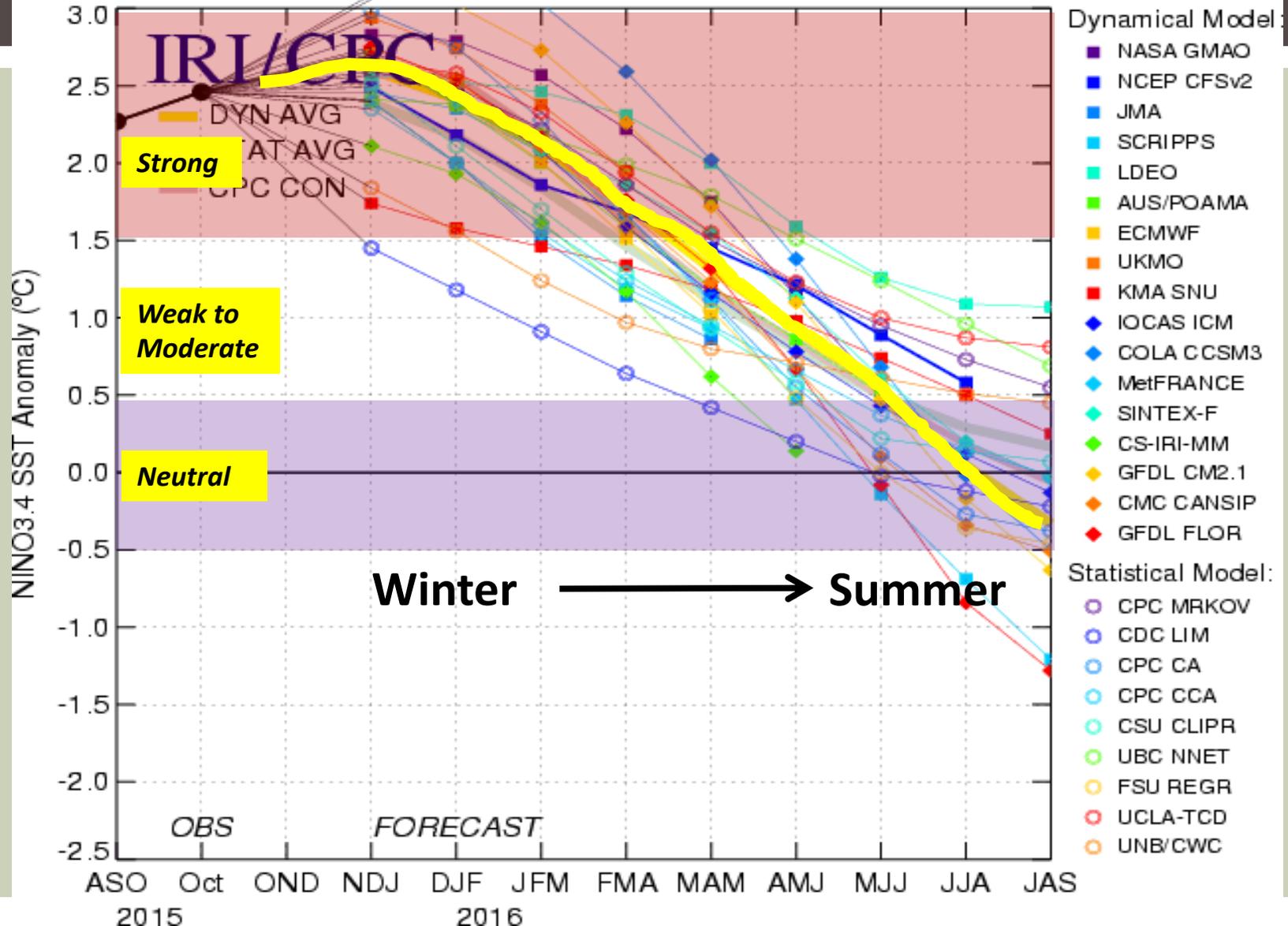
# SEA SURFACE TEMPERATURE ANOMALY

*Warmer water across the Central Pacific - latest reading is 2.6 °C*



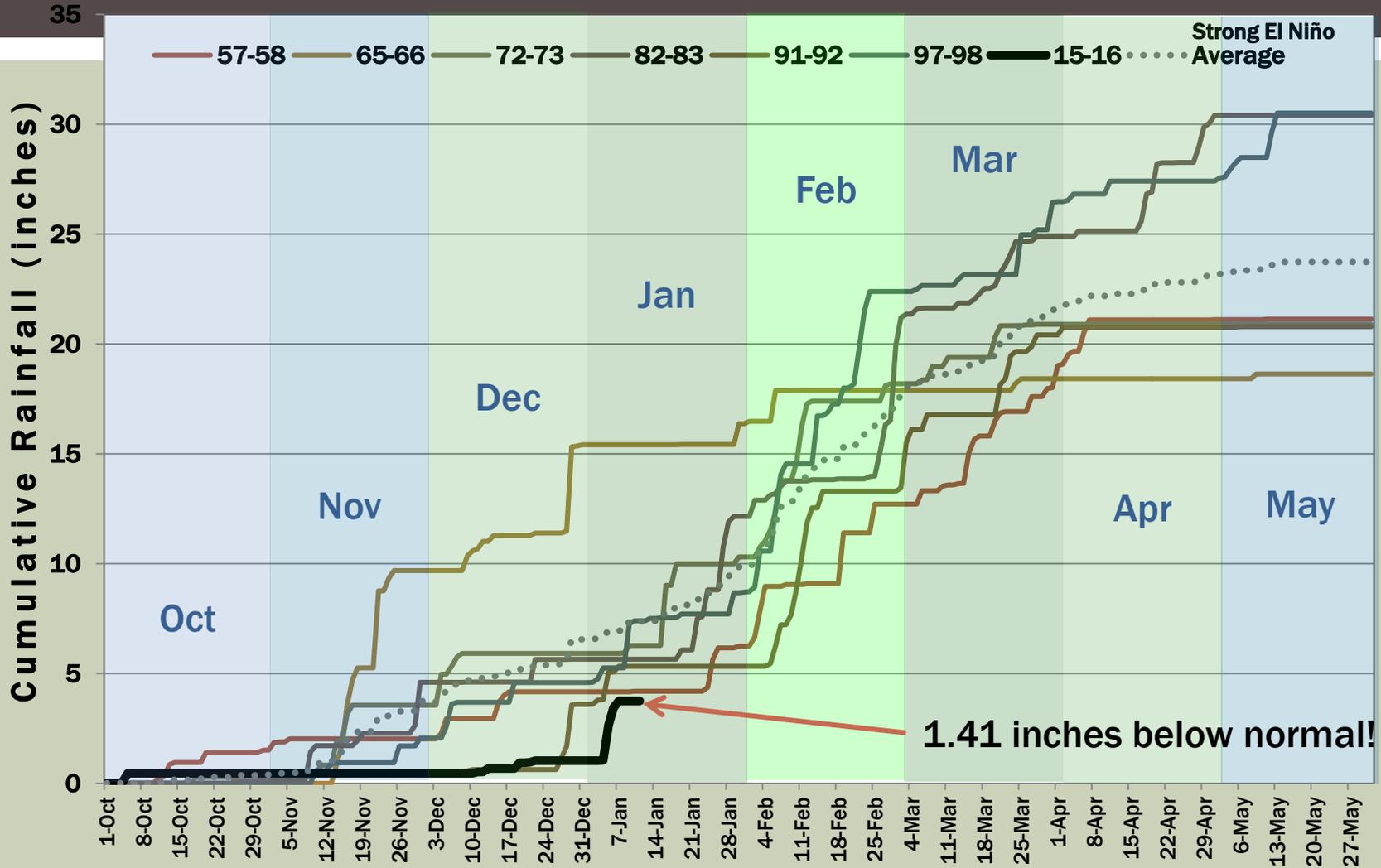
# ENSO MODEL PREDICTIONS

Mid-Nov 2015 Plume of Model ENSO Predictions



# WHERE ARE WE NOW?

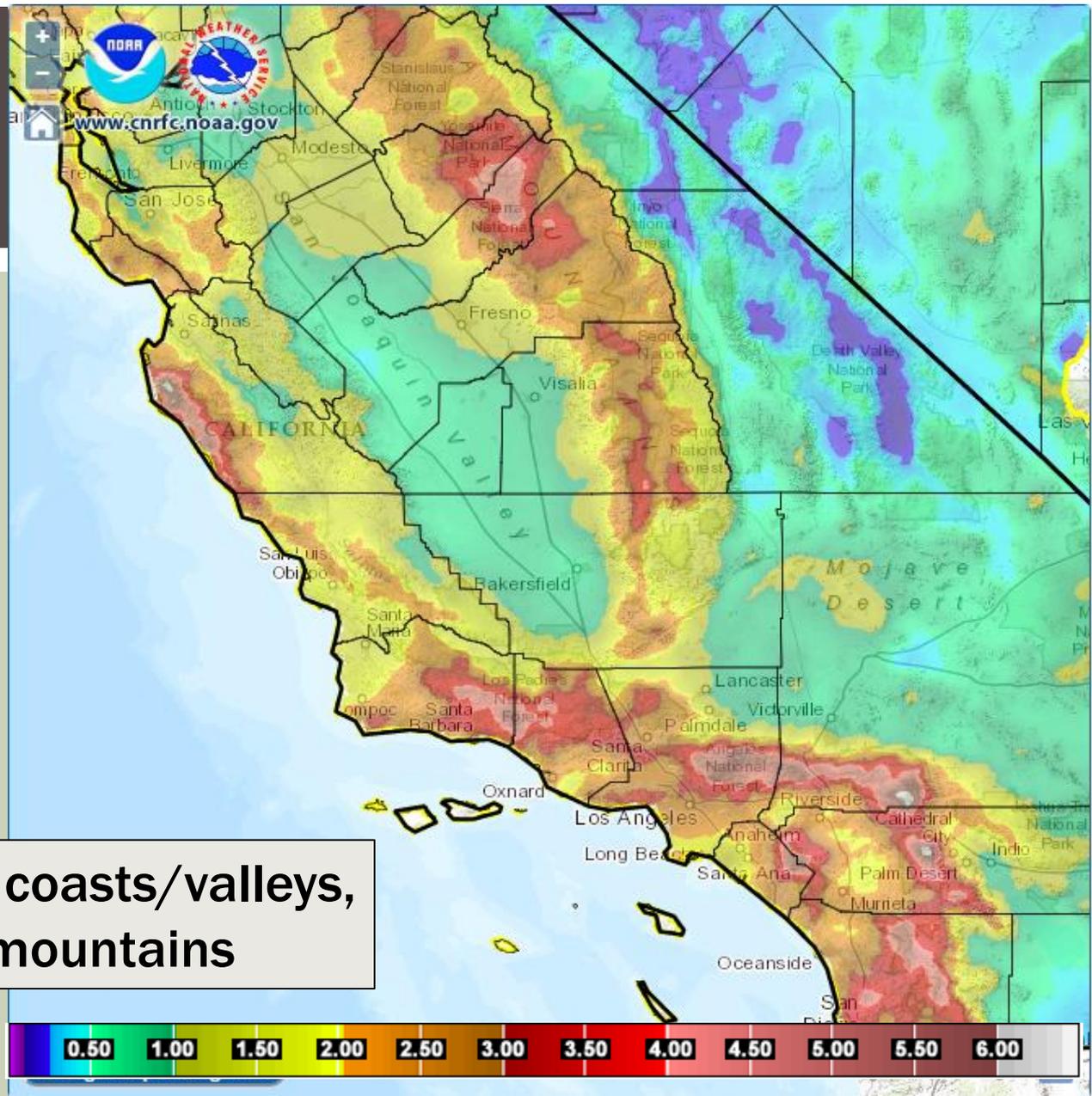
Rainfall at downtown Los Angeles for Strong El Niño Winters



# PRECIPITATION (INCHES)

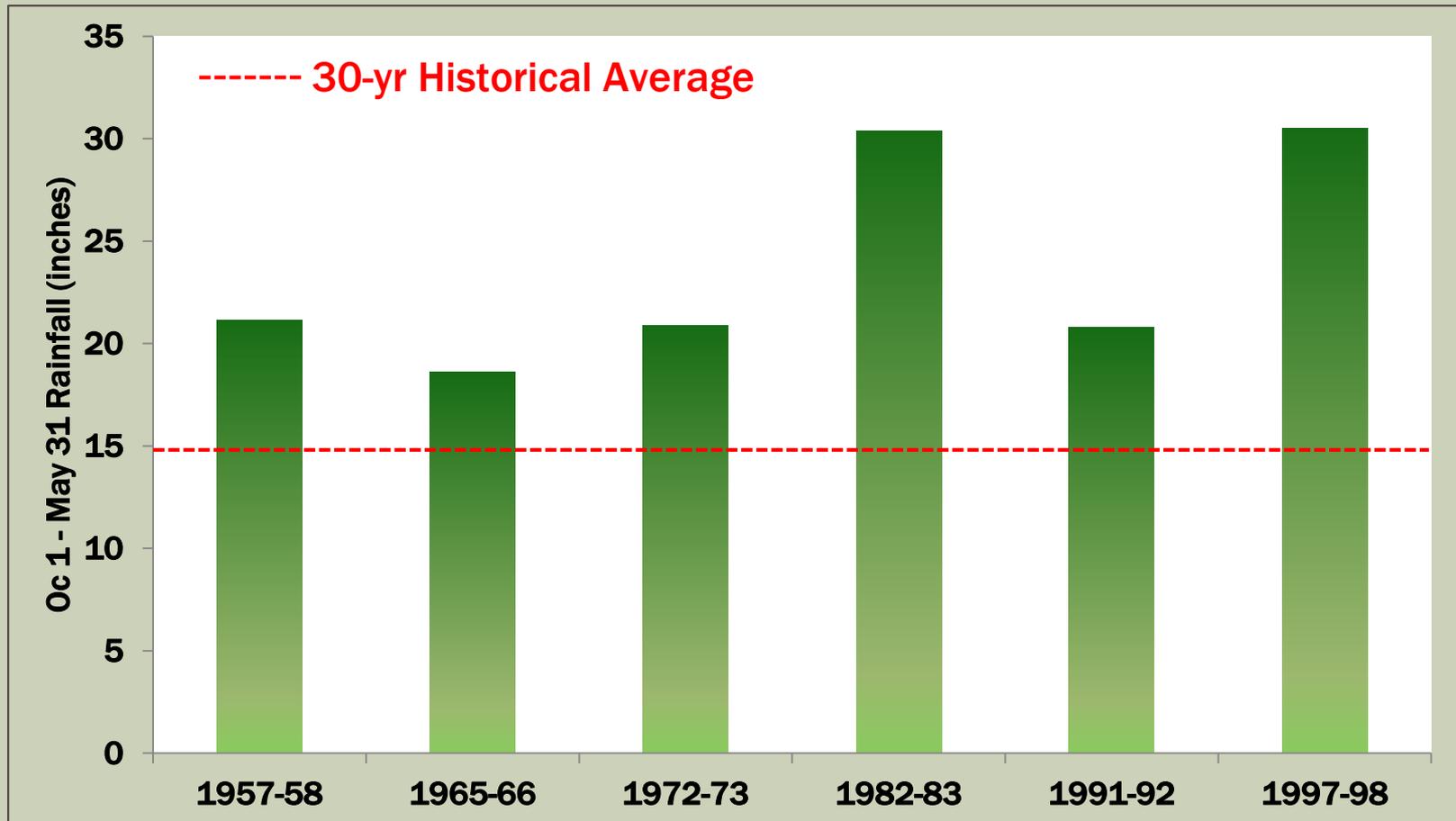
4 am Tue, Jan 5<sup>th</sup>  
to 4 am Thu, Jan 7<sup>th</sup>

Generally 1-3 inches coasts/valleys,  
3-6 inches foothills/mountains



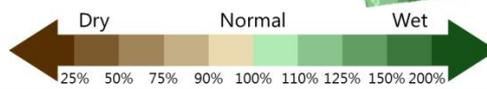
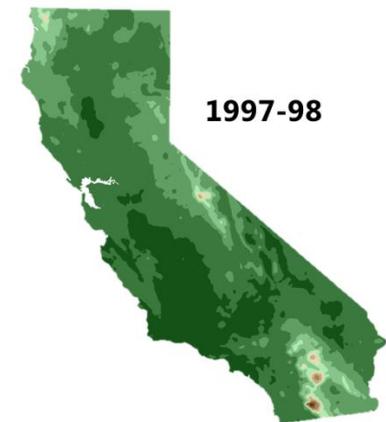
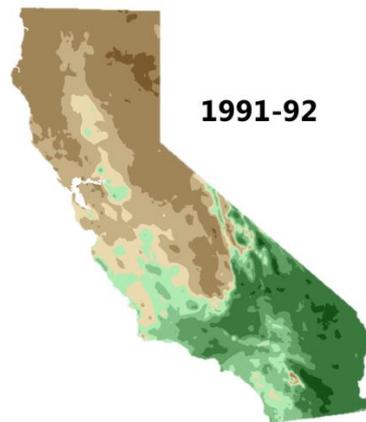
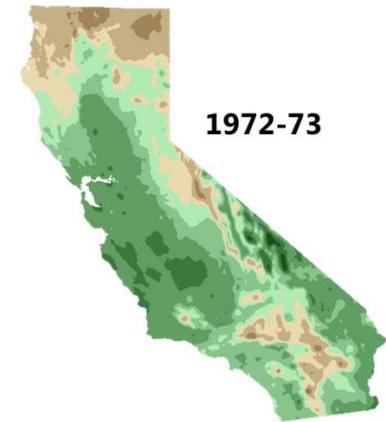
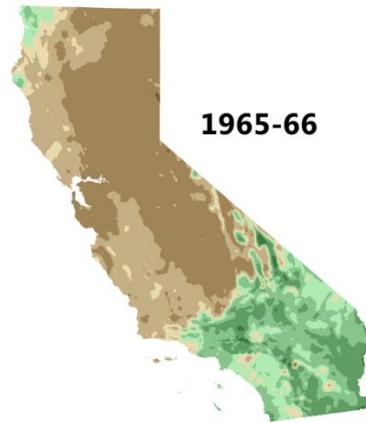
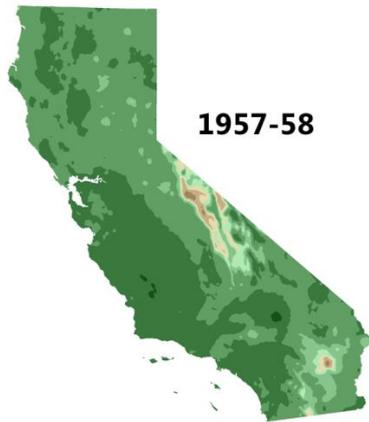
# DOWNTOWN LA SEASONAL RAINFALL FOR STRONG EL NIÑO YEARS

*COVERS OCT 1 - MAY 31 PERIOD*



# PAST STRONG EL NIÑO EVENTS

Looking at Rainfall Departure From Normal



# POTENTIAL WINTER IMPACTS WITH ABOVE AVERAGE PRECIPITATION

- More numerous storms capable of multiple impacts (Jan-Mar)
- Coastal erosion, large wave action, rip currents
- Flooding concerns when 2-3 storms occur in-a-row and soils reach saturation
- Debris flows near recent burn areas during intense downpours



# PREPAREDNESS/RESPONSE

## 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; listen to officials
- Receive warning notifications through NWS system or apps from FEMA, ARC, etc.

# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

OEM is responsible for organizing and directing preparedness efforts of the Emergency Management Organization of Los Angeles County

## Responsibilities

Planning and Coordination  
Operations

Training

Technical Operations

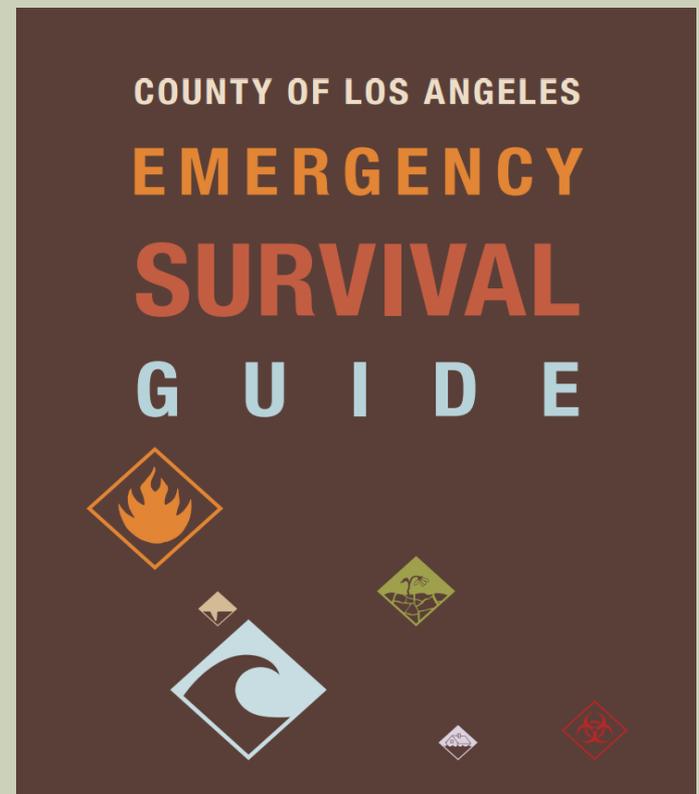
Public Education



# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

## Important Steps To Follow:

- Have a Plan
- Keep Supplies
- Stay Informed
- Get Involved
- Complete an Emergency Plan
- Call 211 for a free copy



# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

## Planning for Special Considerations

- People with need for specialized medical equipment and medication
- People unable to leave their residence independently
- People with access and functional needs
- Newborns and young children
- Elderly

# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

## Emergency Supplies

- Water
- Food Supplies
- First Aid Kit
- Flashlight/Batteries
- Cash
- Documents
- Portable Radio
- Medications

## Pets

- Food Supplies
- Water
- Leashes
- Proper Identification



# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

## **In a flood**

- Evacuate and move to higher ground as soon as local authorities give the signal
- Do not drive or walk through flooded areas
- 6” of fast-moving floodwater can knock down and carry away an adult
- 18” of fast-moving floodwater can take out a car

# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

## Contacts

- An out-of-state contact serves as a roll call for potentially separated family members during a local disaster.
- Everyone in the family should memorize the phone number or carry the number stored in a wallet or purse (not electronically stored)
- Call your out of state contact once to your report your status/location and then once additionally each day. Additional calls could impede the work of local emergency services
- Texting

# LOS ANGELES COUNTY OFFICE OF EMERGENCY MANAGEMENT

## Have an escape plan

- Determine at least two ways to escape from every room in your home
- Consider escape ladders for sleeping areas on the second or third floors of a home
- Select a meeting point outside your home, agreed upon and accessible to all family members
- Practice your escape plan at least twice a year

# CITY PREPAREDNESS EFFORTS



How we're  
here to help!

**We Want To**



**Help You!**

# MONROVIA PD: EVACUATION PLANNING METHODS AND INFORMATION FOR RESIDENTS



- Reverse 911 calls to affected residents
- Police notification through public address system in patrol cars
  - Residents will be directed to safe routes out of the affected areas.
  - Residents will be advised of evacuation shelters and services if needed.
- DOOR TO DOOR CONTACT- Monrovia Police personnel will take the names, addresses and dates of birth of residents who refuse the evacuation order and wish to remain in their homes.

## **IMPORTANT!**

- Once residents leave an evacuated area, they **WILL NOT** be re-admitted until the evacuation order has been lifted in the affected area.
- All evacuated areas will be cordoned off and monitored by law enforcement.

# EMERGENCY OPERATIONS CENTER AT MONROVIA POLICE DEPARTMENT

## Emergency Operations Center (EOC) Located at Monrovia Police Department

- Activated during large scale disasters
  - Specially Trained City Staff Recalled to EOC
  - 24-hour Operations (two 12-hour shifts)
- Four Main Functions in support of Citizens & Emergency Responders
  - ✓ Operations
  - ✓ Planning
  - ✓ Logistics
  - ✓ Finance
- EOC Training & Exercises
  - ✓ Regular Position Training
  - ✓ Bi-annually Table Top Training
  - ✓ Functional Exercises



## EMERGENCY SHELTERS

There are 2 shelters in Monrovia in the event of a natural disaster, emergency.

1. Monrovia Community Center - 119 W. Palm Ave.

2. Mary Wilcox Youth Center - 843 E. Olive Ave



## City of Monrovia Community Center

Capacity: 102

Kitchen

Shower



## Mary Wilcox Youth Center

Capacity: 113

Kitchen

YMCA can be utilized  
for showers



**Hotel Vouchers:** The City works with local hotels to accommodate affected residents in the event of an emergency/natural disaster. (626) 932-5550

**Courtyard Marriott:** Offers a separate hotel voucher program subsidized through FEMA. Contact – Karen Gatsby (626) 357-5211

The Red Cross considers these places “ safe refuge.”

**Safe Refuge:**

- A place to sleep
- 3 meals a day
- Other services provided by Red Cross: incident stress debriefing, counseling, medical care, and resources



RED  
CROSS



American  
Red Cross

# FOR RESIDENTS



Prepare Now!



## 1. Yard Clean-up

Inspect yard for dead trees, debris or other objects that can be blown by storm

## 2. Drains and Gutters

Ensure all drains and gutters are cleared of debris and functioning properly before the storm season

## 3. Roofs

Inspect roof to check for loose tiles, holes, or other signs of trouble

## 4. Retaining Walls

Visually inspect all retaining wall drains, surface drains, culverts, ditches, etc. for obstructions/malfunctions

## 5. Slopes

Visually inspect for gullyng, surface cracks, slumping. Also inspect patios, retaining walls, garden walls, etc. for signs of cracking or rotation. Such signs might be indications of slope movement

## HOMEOWNER TIPS

1. Yard Clean up
2. Drains and Gutters
3. Roofs
4. Retaining Walls
5. Slopes



## 6. Bare Ground

Make sure your yard does not have large bare areas which could be sources for mudflows during a storm event. The fall is a good time to put down mulch and establish many native plants; it may be possible to vegetate these bare areas before the storm season.

## 7. Storm Drains

Visually inspect nearby storm drains, before the storm season and after every rain; if the storm drains are obstructed, clear the material from the drain

## 8. Follow Up

If, after taking prudent steps to prepare your property for winter storms, you still have some concerns about slope stability, flooding, mudflows, etc., consider stockpiling sandbags and plastic sheeting. The sandbags can be stacked to form a barrier to keep water from flooding low areas. Plastic sheeting and visqueen can be placed on slopes and secured with sand bags to prevent water from eroding the soil.

## HOMEOWNER TIPS CONT.

- 6. Bare Ground
- 7. Storm Drains
- 8. Follow Up



■ Wheel Barrows



■ Hand Tools



■ Rain Gear



■ Hard Hats



■ Gloves



■ Safety Glasses



EQUIPMENT  
AND TOOLS

PERSONAL  
PROTECTIVE  
GEAR

## ■ Pre-Plan!

- Gravel bag layout
- V-ditches
  - Polyethylene Tarps or Plastic Sheeting
- Flow channels
- Drain inlet protection
- Debris run-off mitigation



## ■ Gravel/Sand Bags

- Proper bag wall construction
- Proper diversion channel construction
- Prefill and stockpile
- Prefill and place

## ■ Equipment, Tools, PPG and Supplies

- Centralized location
- Good working condition



**TAKE ACTION!**



# STAY CONNECTED



<http://sd25.senate.ca.gov/>



NWSLosAngeles  
City of Monrovia  
Monrovia Fire Rescue



[weather.gov/losangeles](http://weather.gov/losangeles)



NWSLosAngeles



<http://lacoa.org/>



@NWSLosAngeles  
MonroviaCA



<http://www.cityofmonrovia.org>



Text zip code to  
888777

# THANK YOU

