

Highlight on El Niño: Regional Flood Control IRWM RAC

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Outline

- What is El Niño?
- Is there flood risk only with El Niños?
- How the County prepared

Weather Outlook 2015-16

El Niño effects:

Jet Stream shifts southward and across southern California

low pressure

Polar
Jet Stream

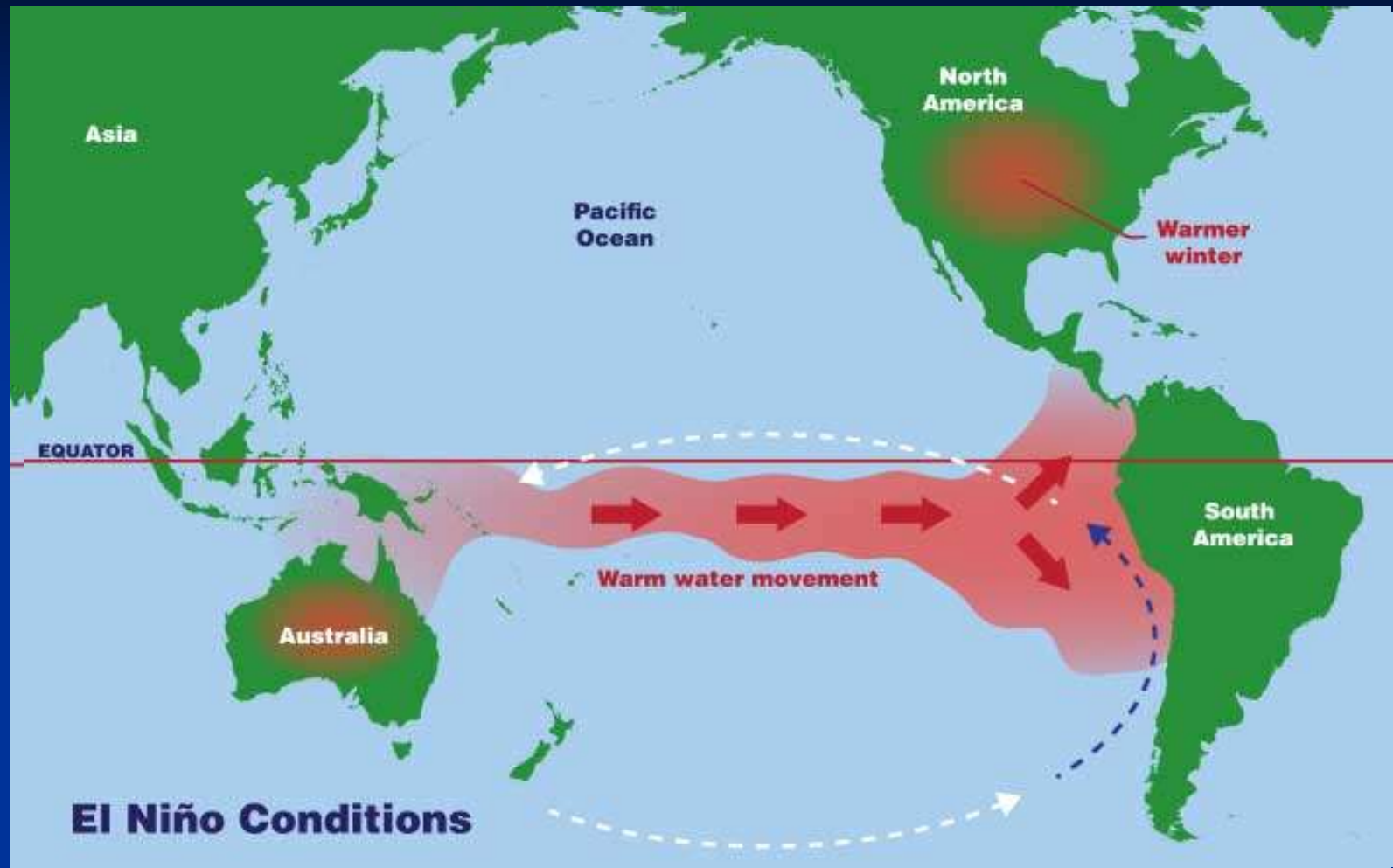
warm

dry

wet

extended
Pacific Jet Stream,
amplified storm
track





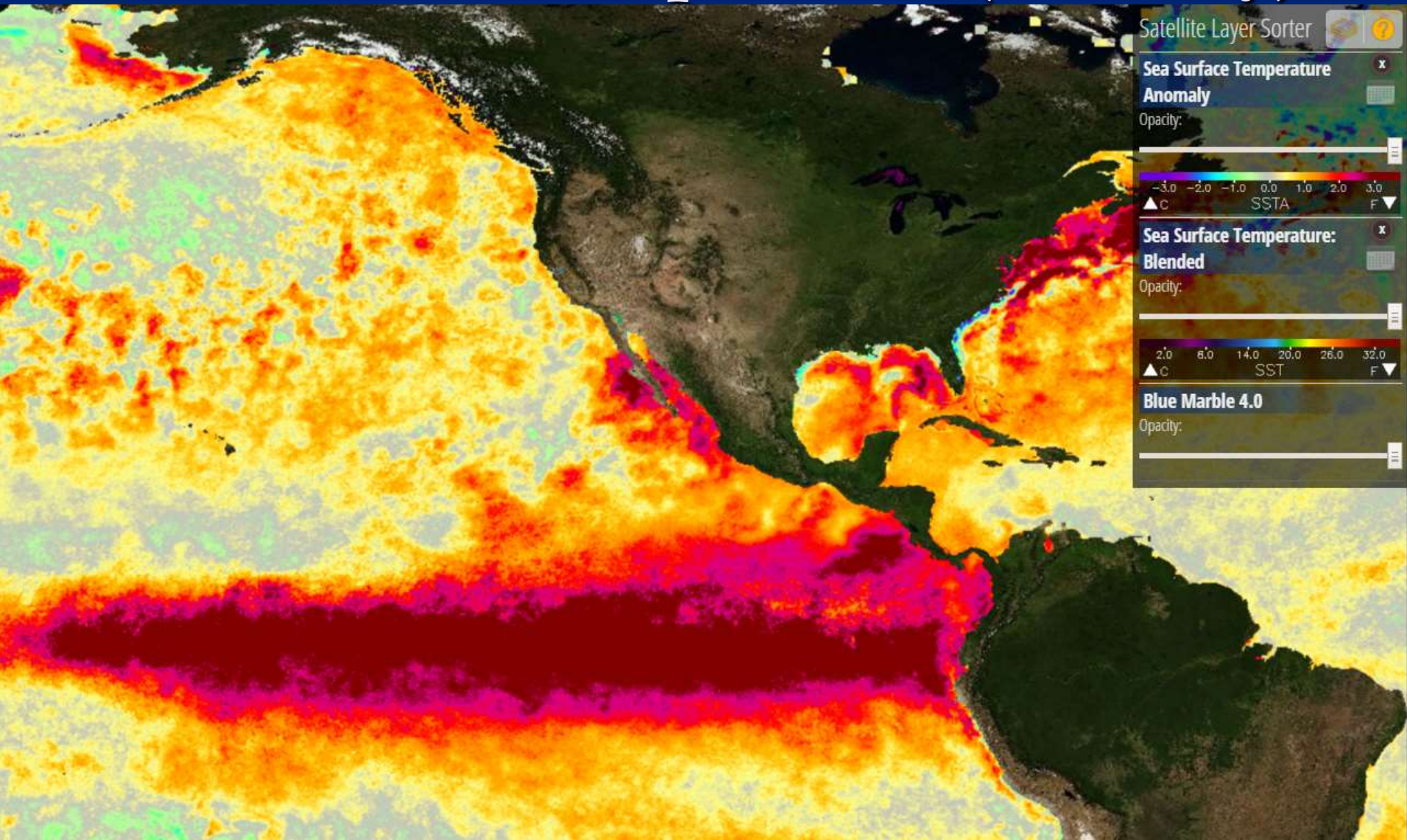
How the jet stream changes

TYPICAL EL NIÑO WINTER WEATHER PATTERN

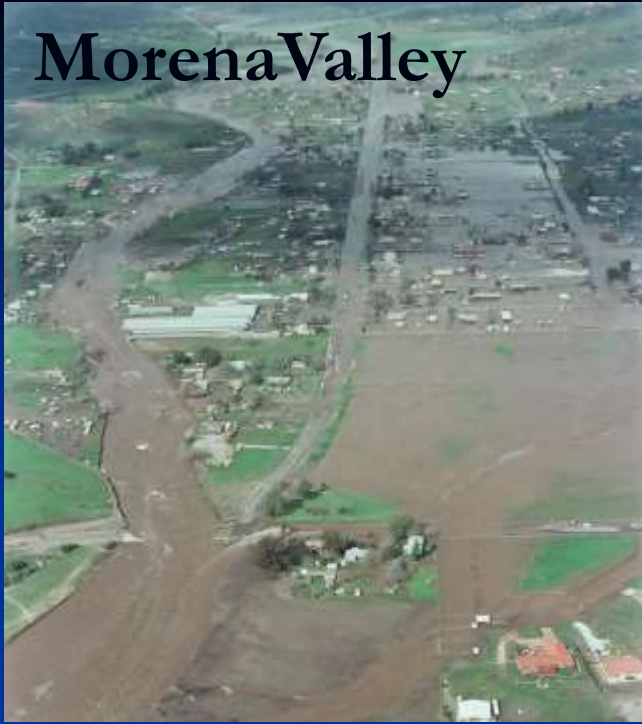


Source: NOAA/NCEP/CPC

Pacific Ocean Sea Surface Temperature (anomaly)



Morena Valley



1980
Weak
El Niño

San Dieguito River



Fashion Valley



Del Mar



1993, La Nada



Highway 76 east of I-15

Highway 395 west of I-15



2010, Moderate La Niña



Cole Grade Road



Quarry Road



Sinkhole,
Unincorporated
El Cajon



Quarry Road, Dec. 2014, La Nada



Sandia Creek Road, Jan 2005, weak El Niño



Country Club Road, Dec 2012, La Nada



Cole Grade Road, Jan 2005, weak El Niño



Browser window showing the ReadySanDiego website. The address bar displays <http://readysandiego.org/>. The page features a navigation menu with links: Home, Family, Kids, Pets, Business, Schools, Faith-Based, Training, and ListSanDiego. The main content area includes a large banner for EL NIÑO READY (Protect - Prepare - Plan) and a Wildfire Hazard Map Tool. Below this is the AlertSanDiego section, which includes a video player and a list of latest preparedness news items. The bottom section is titled Disaster Preparedness and lists four steps: 1. Make A Plan, 2. Build A Kit, 3. Stay Informed, and 4. Get Involved. The right sidebar contains a search bar, a 'Stay Connected' section with social media links, and a 'Get Trained' section with links to CERT and ESP programs.

ReadySanDiego
SDCountyEmergency
SDCountyRecovery

ReadySanDiego
Prepare. Plan. Stay Informed.

Home Family Kids Pets Business Schools Faith-Based Training ListSanDiego English

Watch "Tsunami: Know What to Do!"

EL NIÑO READY
Protect - Prepare - Plan

Wildfire Hazard Map Tool
Discover the level of wildfire hazard in your area and learn how to reduce your risk.

AlertSanDiego
Get signed up. Get notified.

SD EMERGENCY:
The Must-Have
Preparedness App

Search

Stay Connected

AlertSanDiego

Be Aware! Prepared! Natural Disasters

Wildfire... Public Awareness Campaign

Get Trained

CERT
COMMUNITY EMERGENCY RESPONSE TEAM

ESP
EMERGENCY SERVICE PROGRAM

Latest Preparedness News

- Training to Help Emergency Evacuations of Disabled
Dec 04 2015 [»](#)
- County Deploys Mutual Aid Emergency Workers to Fires
Oct 14 2015 [»](#)
- How to be El Niño Ready
Oct 13 2015 [»](#)

More Preparedness News

Disaster Preparedness

- 1 Make A Plan
- 2 Build A Kit
- 3 Stay Informed
- 4 Get Involved

Click on the icons below to learn more about disasters in the County of San Diego and how to prepare for them.

- Wild Land Fire
- Earthquake
- Perennial Influenza
- Tsunami
- Flooding
- Tsunami

Wildland Fire

Emerging



County of San Diego EL NIÑO READY

Protect - Prepare - Plan

ReadySanDiego.org

ReadySanDiego

San Diego County Emergency

San Diego County Recovery

ReadySanDiego

Prepare. Plan. Stay Informed.

Home Family Kids Pets Business Schools Faith-Based Training LaborSanDiego

English

Home / El Niño

El Niño

What is El Niño?

El Niño conditions are characterized by unusually warm ocean temperatures in the Equatorial Pacific. Weather experts have been closely monitoring the increasingly warm temperatures since early 2015, giving them strong confidence to predict a strong El Niño.

El Niño conditions do not "cause" individual storms but rather influence their frequency and characteristics. This El Niño event is forecast to rival previous strong El Niño events, such as 1982/83 and 1997/98.

What does this mean for San Diego?

For more information on El Niño conditions, visit the National Weather Service [El Niño Theme Page](#) or view the El Niño and Western US and California precipitation [Information Flyer](#).

El Niño can bring **increased rainfall** across Southern California, and in San Diego, this could increase the potential for flooding, mud slides and debris flow.

El Niño & Family Readiness

Make a Family Disaster Plan

It is important for you and your family to plan in advance, to know how you will communicate and meet during and after disasters, and what you will do in different situations. The [Family Disaster Plan and Personal Survival Guide](#) is designed to help families be prepared in the event of disaster.

Be Flood Ready

Learn what actions you should take when you learn of potential flooding in

Protecting Your Property

Sandbags

Sandbags help to divert or redirect water, mud and debris from your property and help **prevent soil erosion**.

Free sand and sandbags are available to residents and businesses throughout San Diego County at the following locations:

- Unincorporated Areas
- Cities/Incorporated Areas

Sandbags are also available at these **retail vendors**.

For more information on flood debris and erosion control, view the [Homeowner's Guide for Flood, Debris, and Erosion Control](#).

Sandbags

Sandbags can help protect your property from major damage, but sandbags will not seal out water, which is why it is important to make sure your property is financially covered.

Insurance

Standard homeowners insurance does not cover flooding. It is important to have protection from the floods associated with heavy rains here in San Diego County. The **National Flood Insurance Program (NFIP)** is available to property owners to financially protect themselves.

Understanding Your Flood Risk

FEMA's Flood Map Service Center is the official public source for flood hazard information. There, you can find official flood maps and other resources to get a better understanding of your flood risk.



Providing Storm Warning to the Community

Webcam Home

The San Diego County Flood Control District maintains several webcams at selected low water crossings throughout the county. Although the public cannot manipulate the webcams, they will be able to view streaming video from the camera to see the current state of the low water crossings. The image position of the webcam may change from time to time as the cameras can be controlled by county emergency managers as they inspect the condition of the road during flooding, and look up and downstream to inspect the general condition of the stream.

The County currently maintains three webcams: the Quarry Road Dip on Spring Valley Creek in Spring Valley, the Sandia Creek Road Dip on the Santa Margarita River in Fallbrook, and the Country Club Road Dip on Escondido Creek in Harmony Grove.



Webcam image of Quarry Road Dip in Flooding Conditions

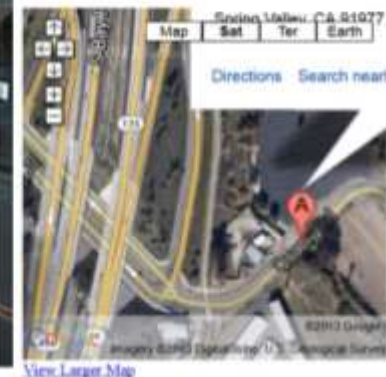
- [Quarry Road Webcam](#)
- [Sandia Creek Road Webcam](#)
- [Country Club Road Webcam](#)

[Flood Control Homepage](#)

Low Water Crossing Web Cams



Quarry Road Web Cam



- Healthy Families
- Safe Communities
- Sustainable Environments
- Operational Excellence

