

# **Community Disaster Education Workshop**

**Jim Caesar**

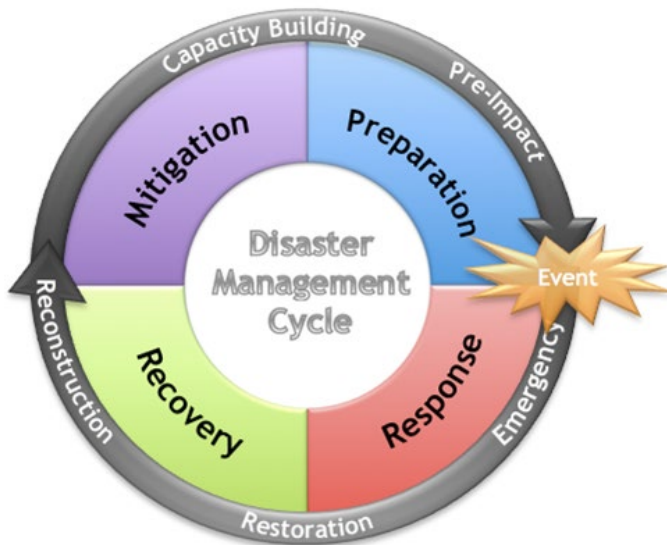
**Emergency Management & Mission Continuity**

**Jewel Persad**

**Campus Sustainability Manager**

# Emergency Management & Mission Continuity

- Emergency Operations Plan (EOP)
- Emergency Planning Committee
- Emergency Operations Center (EOC)
- Program is held to the National Fire Protection Association (NFPA) 1600 Standards



# Emergency Operations Center

- Policy
- Operations
- Planning
- Logistics
- Finance



# What is Mission Continuity?

- The ability to continue the University mission after a major disaster or disruptive event.
- An ongoing process to ensure that the necessary steps are taken to identify the impact of potential losses and maintain viable continuation of services, recovery strategies, and recovery plans.



# Campus Essential Functions

- Continue Visible Leadership
- Continue Teaching
- Continue Research
- Maintain Critical Infrastructure
- Maintain the Reputation of Campus
- Maintain Relationships with Stakeholders
- Maintain Safety & Security
- Provide Emergency Services
- Maintain Financial Stability
- Maintain Basic Campus Services



# Safety Assessment Program (SAP)

The California Governor's Office of Emergency Services (Cal OES) Safety Assessment Program (SAP) provides experienced professionals who can quickly evaluate damaged structures, identifying those that are safe for occupancy to which people can return, while marking those that are unsafe or have restricted use. It accepts civil, structural, geotechnical, and architect licenses from any state, along with many ICC building inspector certifications

**INSPECTED**  
LAWFUL OCCUPANCY PERMITTED

This structure has been inspected (as indicated below) and no apparent structural hazard has been found.

Inspected Exterior Only  
 Inspected Exterior and Interior

Report any unsafe condition to local authorities, reinspection may be required.

Inspector comments: \_\_\_\_\_  
\_\_\_\_\_

Facility Name and Address: \_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_  
Time \_\_\_\_\_  
(Caution: Aftershocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: \_\_\_\_\_  
(Jurisdiction)

Inspector ID / Agency: \_\_\_\_\_

**RESTRICTED USE**

**Caution:** This structure has been inspected and found to be damaged as described below.

\_\_\_\_\_

\_\_\_\_\_

Entry, occupancy and lawful use are restricted as indicated below:

\_\_\_\_\_

\_\_\_\_\_

Facility Name and Address: \_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_  
Time \_\_\_\_\_  
(Caution: Aftershocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: \_\_\_\_\_  
(Jurisdiction)

Inspector ID / Agency \_\_\_\_\_

**Do Not Remove, Alter or Cover this Placard until Authorized by Governing Authority**

**UNSAFE**  
DO NOT ENTER OR OCCUPY  
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as described below.

\_\_\_\_\_

\_\_\_\_\_

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.

Facility Name and Address: \_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_  
Time \_\_\_\_\_

This facility was inspected under emergency conditions for: \_\_\_\_\_  
(Jurisdiction)

Inspector ID / Agency \_\_\_\_\_

# Be Aware

Earthquakes

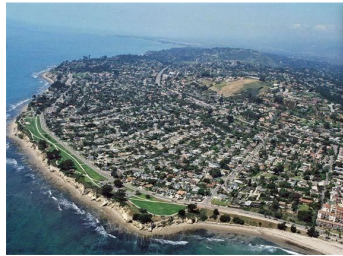
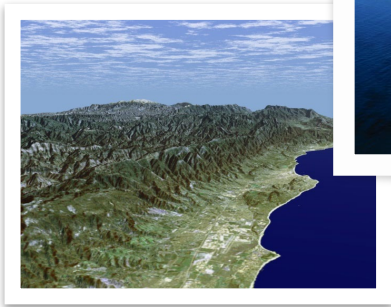
Wildfires

Storms & severe weather

Tsunami

Flood & Mudslides

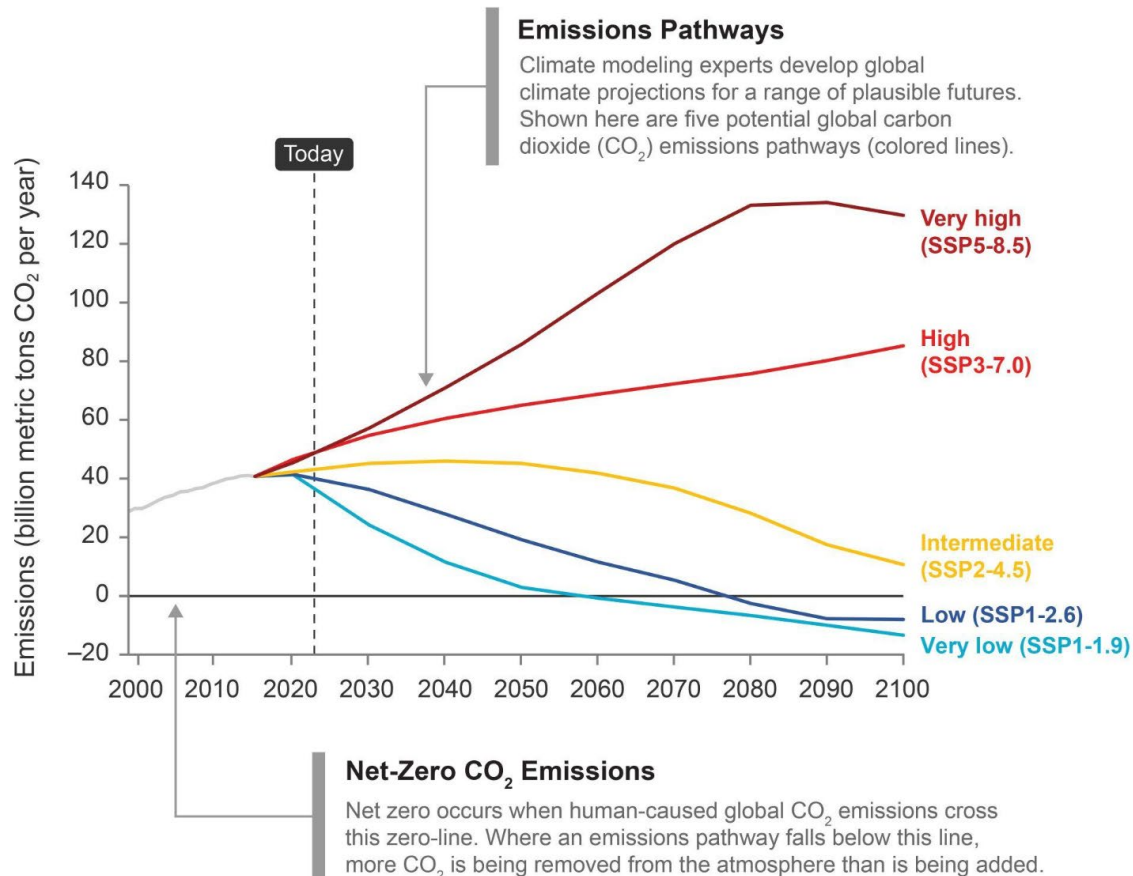
Extreme Heat





# Future Global Annual CO<sub>2</sub> Emissions (RCPs)

Future Global Carbon Dioxide Emissions Pathways



Different scenarios of future carbon dioxide emissions are used to explore the range of possible climate futures

Source: <https://nca2023.globalchange.gov/>

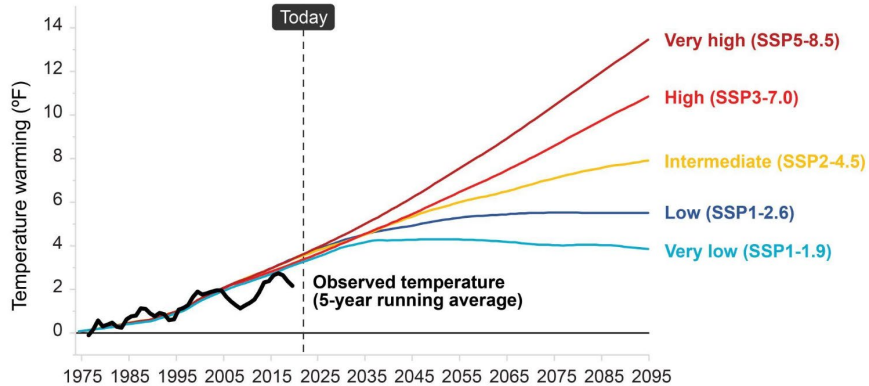


# Future Global Temperature Changes

## Potential Warming Pathways in the United States

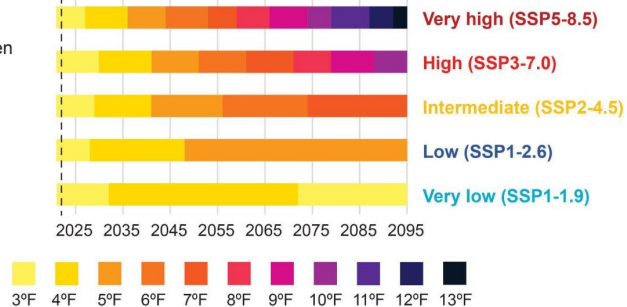
### Future Warming

Future warming in the United States will depend on the total amount of global greenhouse gas emissions.



### Crossing Times







Whether—and when—a given temperature threshold is crossed depends on both the amount and rate of global greenhouse gas emissions.



How much warming the US will experience and when a given temperature threshold is crossed—depends on future global emissions.

Source: <https://nca2023.globalchange.gov/>

# Projected Changes for California

	CLIMATE IMPACT	DIRECTION	SCIENTIFIC CONFIDENCE FOR FUTURE CHANGE
	TEMPERATURE	WARMING ↗	Very High
	SEA LEVELS	RISING ↗	Very High
	SNOWPACK	DECLINING ↘	Very High
	HEAVY PRECIPITATION EVENTS	INCREASING ↗	Medium-High
	DROUGHT	INCREASING ↗	Medium-High
	AREA BURNED BY WILDFIRE	INCREASING ↗	Medium High

# Climate Exacerbated Hazards

## Extreme Heat

Heat-Health Events (HHEs) will worsen drastically throughout the state—by the 2050s

## Wildfire and Smoke

Average area burned statewide is projected to increase by 77% by 2100.

## Drought

Rising temperatures will reduce the snowpack

## Flooding

The intensity of droughts and storms will increase.

## SLR\* & Erosion

December 2023, coastal flooding and severe waves (40ft) warnings issued for Coastal CA, including Santa Barbara

\* Sea Level Rise (SLR)

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# Earthquakes can . .

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Crumbled bell tower of the Santa Barbara Mission after the 1925 earthquake. *Earthquake Engineering Research Center at the UC Berkeley.*

Cause buildings and bridges to collapse

Disrupt gas, electric, and telephone service

Trigger landslides, avalanches, tsunamis, and fires



# During an Earthquake

- Drop!
- Cover!
- Hold on!

## Protect Yourself During Earthquakes!



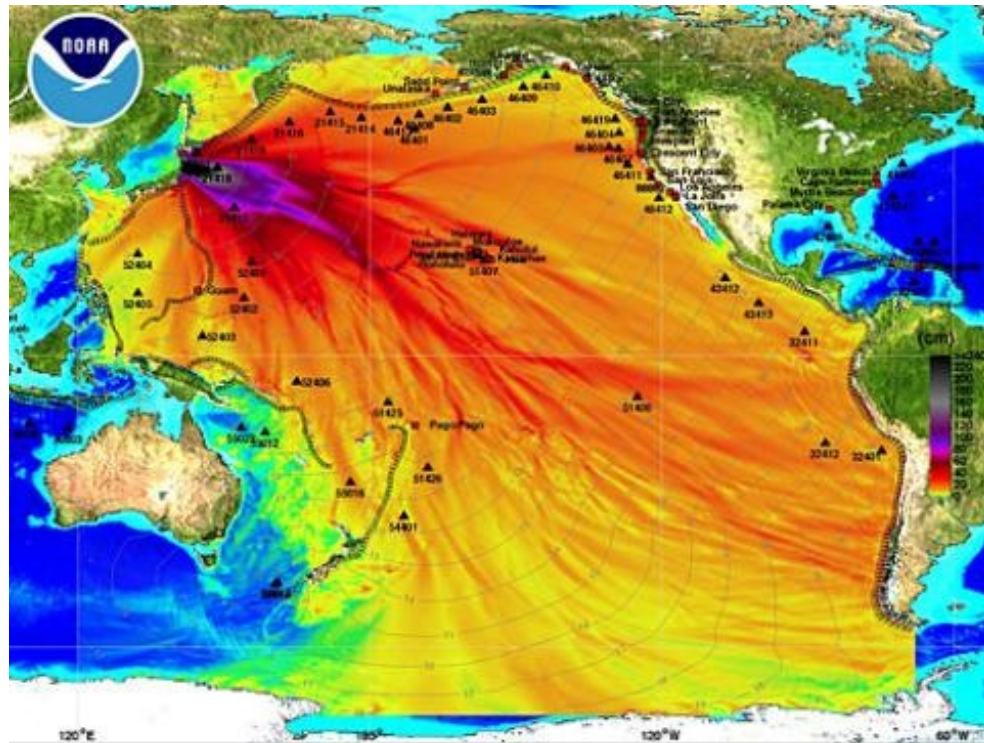


# Tsunamis

Many tsunamis may be triggered by quake-induced landslides

Possible Types:

- Teletsunami
- Regional
- Near Source



➤ Sea Level rise from climate change increasing risks moving forward



# Tsunami Inundation Map



# Wildfires



**READY! SET! GO!**  
YOUR PERSONAL WILDFIRE ACTION PLAN

The bottom half of the graphic features a photograph of a residential neighborhood with houses and trees under a blue sky with white clouds. In the bottom right corner, there is a circular logo for the City of Santa Barbara, California, which includes a landscape scene with a river and mountains.

# Flooding/Storms

- One of the most frequent natural disasters in the United States
- Floods are one of the most dangerous natural disasters because they are often underestimated.
- Microbursts





# Other Risks to Santa Barbara County

- Hostile Intruder/Terrorism
- Civil Unrest
- Bomb Threat/Explosion
- Pandemic
- Landslides/Debris Flow
- Oil Spill
- Hazmat/Chemical Release
- Transportation Event (Rail, Highway, Airplane)
- Power Outage



# PSPS Ideal Timeline



\*Erratic or sudden onset of conditions may impact our ability to provide advanced notice to customers.



Photo: unknown

Motorists sit in their cars, stranded between two mudslides on Hwy 101 - La Conchita

# Be Prepared

- ✓ **Have Emergency Supplies** (A “Go Kit”) and keep it updated
- ✓ **Have a Plan** (at home, in the car, at work, on campus, and for your pets)
- ✓ **Be Informed** (Alerts, Hand-crank or battery-power radio, know your local radio stations)
- ✓ **Get Training** (CERT, CPR, First Aid, Fire Extinguisher)





FEMA resources that can help ensure everyone remains informed and prepared:

- **Family Emergency Communication Plan:** [Create Your Plan](#)
- **Emergency Kit Checklist:** [Build Your Kit](#)
- **Disaster Preparedness for Businesses:** [Business Continuity Resources](#)
- **General Preparedness Guides:** [FEMA Preparedness Resources](#)



# Emergency Preparedness Training

- Campus Disaster Education Workshops (1 hour)
- “Listos” Emergency Preparedness Training (8 hours)
- Community Emergency Response Team (CERT) (24 hours)



# Emergency Alerts and Warnings

- UCSB Alert
  - <https://member.everbridge.net/453003085614511/login/sso>
- Campus Outdoor Notification System
- Campus Wide Emails
- Santa Barbara County Alerts – ReadySBC
  - <https://member.everbridge.net/index/892807736723794#/signup>
- The Wireless Emergency Alert (WEA)
- Integrated Public Alert & Warning System (IPAWS)

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# Have Water and Food

- Make sure you have a 3 to 5 day supply of water.
- One gallon of water per person per day
- Have a supply of nonperishable food for 3 to 5 days for each member of your family
- Include a can opener!



# Pack a Ready Kit

- Flashlight and batteries
- Hand-cranked radio
- First Aid kit
- Extra clothing
- Blankets
- Cash
- Cell phone charger





# Important Documents

Copies of:

- Driver's license or other photo ID
- Home and vehicle documents
- Rental agreement
- Insurance information
- Family photos
- A list of all your prescription medications



# Make a Plan

- **Develop a plan including:**
- A communication plan
- A list of important contacts, including an Out-of-Town contact
- Evacuation planning for the whole community
- A meeting place outside your home
- Share your plan with your neighbors





# Emergency Management & Mission Continuity



Emergency  
Operations



Emergency  
Preparedness



Mission Continuity

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<https://www.emergency.ucsb.edu/>