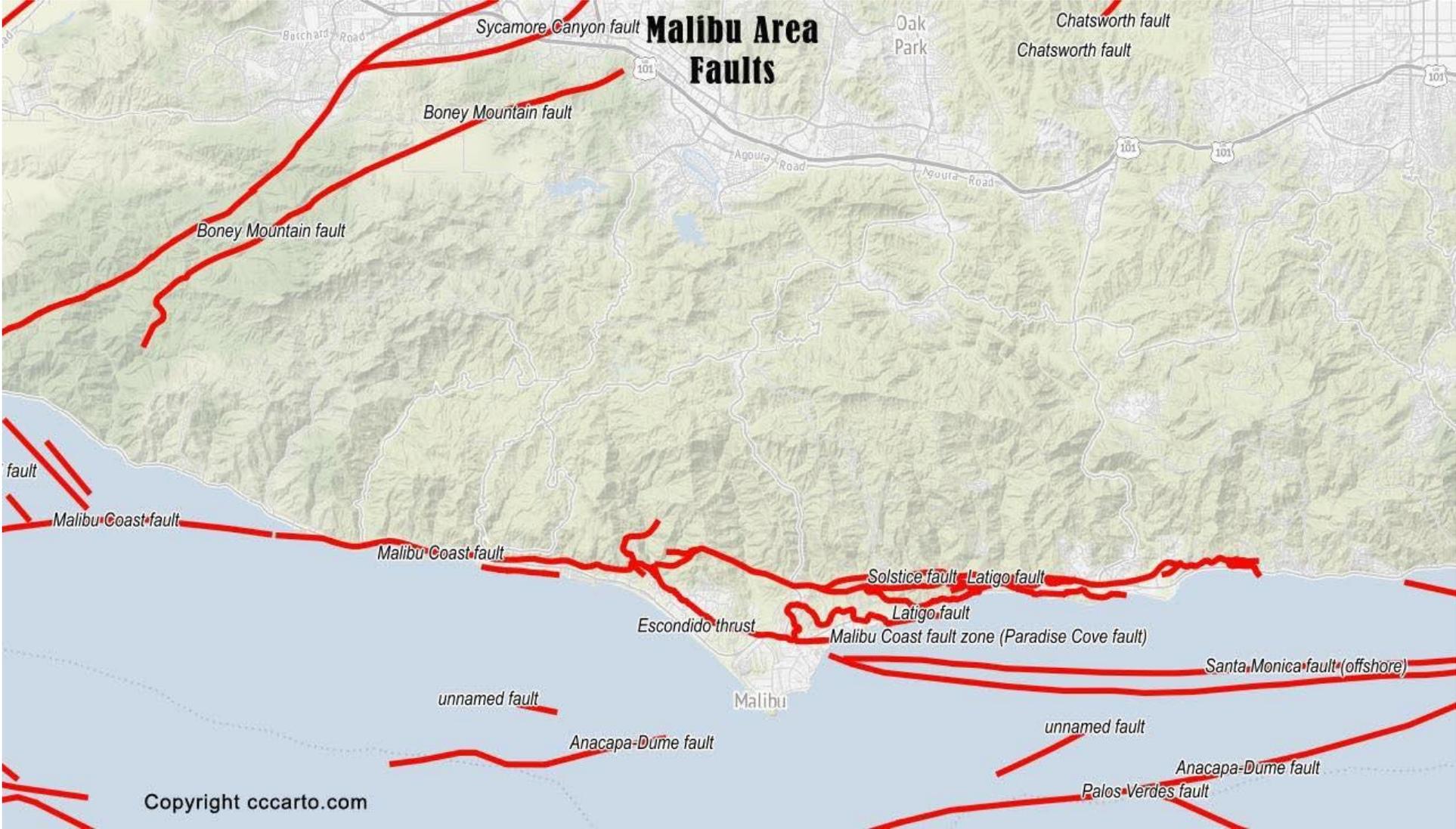


# **EARTHQUAKE PREPAREDNESS & HOME HAZARDS**

Sarah Kaplan  
City of Malibu  
Emergency Services Coordinator



# EARTHQUAKES AND MALIBU



# EARTHQUAKE AND MALIBU

- Numerous local earthquake faults
- Steep terrain prone to land and rockslides
- Easily isolated due to roads being impassable
- Limited local resources
- The Malibu Coast fault system is active capable of producing a magnitude 6.5 to 7 earthquake
- More significant to the Malibu area than the local effect of a large quake on the San Andreas fault





**KNOW**

Have a disaster plan and make sure all members of the family know it.

**CREATE**

Create or refresh you go bags and your stay kit. Make sure the items aren't expired.

**MITIGATE**

Go through your home and mitigate any hazard that may exist.

# GET NOTIFICATIONS

- City of Malibu
  - [www.MalibuCity.org/DisasterNotification](http://www.MalibuCity.org/DisasterNotification)
- County of Los Angeles
  - [www.Alert.LACounty.gov](http://www.Alert.LACounty.gov)
- If you live, go to school, or work outside of the City and County of LA consider signing up for the local (City and County) notifications in those areas as well.



# KNOW YOUR DISASTER PLAN

- Talk to family, friends, co-workers and neighbors about getting prepared
- Know the disaster plans of schools and adult care facilities
- Know your family reunification sites
- Have an out of area contact
- Identify safe spots in each room to take cover, if needed
  - Under sturdy tables and desks
  - Against interior walls
- Have important phone numbers printed and ready to go in case your phone dies.



# CREATE A STAY KIT

- Personalize your stay kit to you and your family's needs
- 2-3 weeks worth of food
  - Shelf stable, that you like to eat
- 2-3 weeks worth of water
  - 1 gallon per person per day
- Comfortable clothes and closed toed shoes
- Flameless Light Source
- Radio
- First Aid Kit – personalized to your and your families needs
- A place to sleep if you home is damaged
  - American Red Cross Shelter?
  - Tent?
  - Rv?



# WATER PURIFICATION

Requires a source for fresh water. Some systems and methods do not work with sea water.

- Water purification tablets
  - Can be purchased at most camping supply stores follow instructions on packaging
- Water purification pumps
  - Often used when backpacking follow manufactures instructions on use and filter replacement
  - Be familiar with it before use in a disaster
- Boiling fresh water
  - Bring water to a roiling boil
  - Leave at a boiling for 1 minute
  - Cool
- Buy from reputable dealers
- Do your research before buying a product
- Test and become familiar with how to use it



# BLEACH TO PURIFY WATER

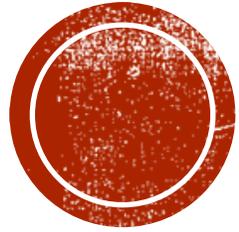
Table 3.3: Ratios for Purifying Water with Bleach

Water Quantity	Bleach Added
1 quart	4 drops
1 gallon	8 drops
4 gallons	1/3 teaspoon

- Unscented Bleach
  - Add correct amount of bleach (table in next slide)
  - Stir or shake the mix
  - Let stand for 30 minutes

\*Note: If water is cloudy, double the recommended amount of bleach.





# MITIGATION & HOME HAZARDS



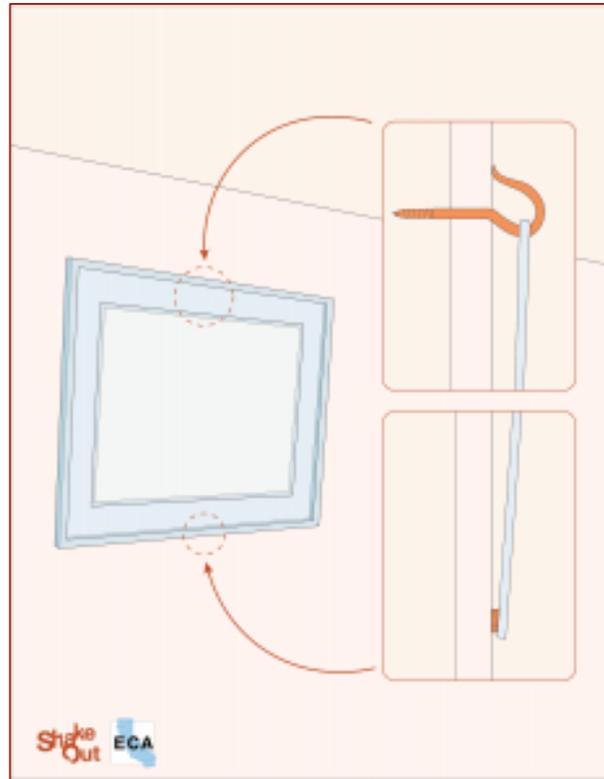
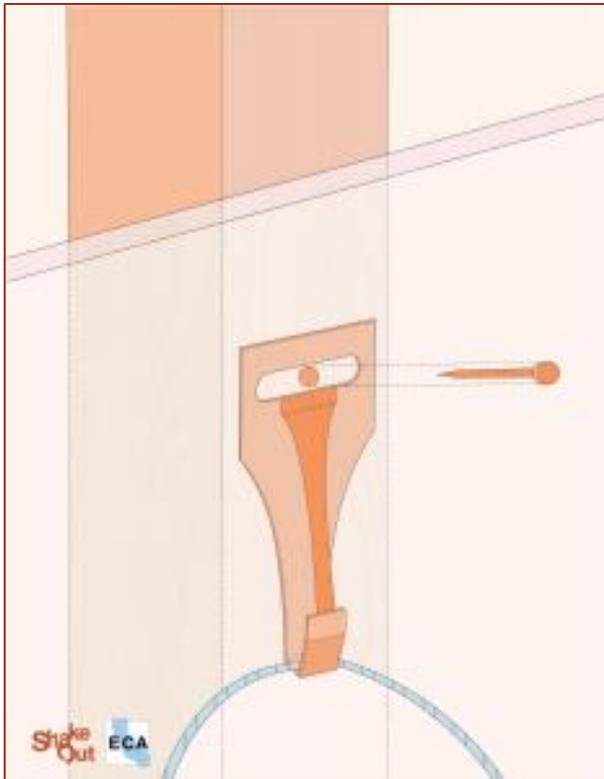


# EARTHQUAKE BED SIDE KIT

- Flashlight
- Closed toed shoes
- Pants
- Work Gloves



# SECURE DECORATIONS



- Secure heavy paints and decorations
- Move heavy or large items to lower shelves or the floor
- Add cross bars to bookshelves and open cabinets
- Hang paintings and mirrors on closed hooks
- Use museum wax or putty to secure things on shelves
- Install latches on cabinets



# SECURE FURNITURE

- Secure bookcases and top-heavy furniture to the wall
- Move tall furniture away from doorways
- Secure TVs with straps or into studs
- Anchor ceiling lights, fans, and chandeliers



# SECURE APPLIANCES



- Secure the water heater with metal straps to studs
- Use flexible connections where gas lines meet appliances (such as water heaters, ovens, and clothes dryers)
- Bolt house to foundation (older homes)
- Secure free-standing wood stoves or fireplace inserts



# BEDROOM HAZARDS

- Secure or move any large painting or decorations that hang over the bed
- Move the bed away from windows.
- Secure or move mirrors, dressers and bookcases
- Are there any things that fall on you while you are asleep?
- Are there any items that could block you from getting out through a door or window?



# DURING AN EARTHQUAKE

**IF  
POSSIBLE**



**USING  
CANE**



# DURING AN EARTHQUAKE

**USING  
WALKER**



**USING  
WHEELCHAIR**





## AFTER AN EARTHQUAKE

- Assess for hazards.
- Be prepared for potential aftershocks.
- Prepare for potential landslides, and/or a tsunami.
- Check those around you and help were applicable.
- Text your out of area contact your status and location.
- Put out small spot fires.
- Follow your work's, school, or family disaster plan.



# RESOURCES

- [www.malibucity.org/preparedness](http://www.malibucity.org/preparedness)
- <https://ready.lacounty.gov/>
- [www.ready.gov](http://www.ready.gov)
- [www.redcross.org/get-help.html](http://www.redcross.org/get-help.html)
- <https://fire.lacounty.gov/emergency-disaster-preparedness-safety-tips/>
- <https://www.caloes.ca.gov/>
- <https://www.earthquakecountry.org/>
- “The Big One” Podcast



City of Malibu Public Safety Office  
[Publicsafety@malibucity.org](mailto:Publicsafety@malibucity.org)  
310-456-2489 ext. 368

