

STATE OF CALIFORNIA

California Geological Survey

Earthquake Zones of Required Investigation Emerald Bay Quadrangle

THIS MAP SHOWS ALQUIST-PRIOLO EARTHQUAKE FAULT ZONES.
SEISMIC HAZARD ZONES HAVE NOT BEEN PREPARED FOR THE EMERALD BAY QUADRANGLE

This map shows the location of Alquist-Priolo (AP) Earthquake Fault Zones referred to here as Earthquake Zones of Required Investigation. The Geographic Information System (GIS) digital files of these regulatory zones released by the California Geological Survey (CGS) are the "Official Maps." GIS files are available at the CGS website <http://maps.conservation.ca.gov/gis/information/warehouse/>. These zones will assist cities and counties in fulfilling their responsibilities for protecting the public from the effects of surface fault rupture and earthquake-triggered ground failure as required by the AP Earthquake Fault Zoning Act (Public Resources Code Sections 2621-2630) and the Seismic Hazards Mapping Act (Public Resources Code Sections 2690-2699.8). For information regarding the general approach and recommended methods for preparing these

zones, see California Geological Survey (CGS) Special Publication 42, *Fault-Rupture Hazard Zones in California*, and Special Publication 118, *Recommended Criteria for Delineating Seismic Hazard Zones in California*.

For information regarding the scope and recommended methods to be used in conducting required site investigations refer to CGS Special Publication 42, Appendix C *Guidelines for Evaluating the Hazard of Surface Rupture*, and CGS Special Publication 117A, *Guidelines for Evaluating and Mitigating Seismic Hazards in California*. For a general description of the AP and Seismic Hazards Mapping acts, the zoning programs, and related information, please refer to the website at www.conservation.ca.gov/cgs/.

MAP EXPLANATION

ALQUIST-PRIOLO EARTHQUAKE FAULT ZONES

Earthquake Fault Zones
Zone boundaries are delineated by straight-line segments; the boundaries define the zone encompassing active faults that constitute a potential hazard to structures from surface faulting or fault creep such that avoidance as described in Public Resources Code Section 2621.5(a) would be required.

Active Fault Traces
Faults considered to have been active during Holocene time and to have potential for surface rupture: Solid Line in Black or Red where Accurately Located; Long Dash in Black or Solid Line in Purple where Approximately Located; Short Dash in Black or Solid Line in Orange where Inferred; Dotted Line in Black or Solid Line in Rose where Concealed; Query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by fault creep.

SEISMIC HAZARD ZONES

Seismic Hazard Zones, addressing Soil Liquefaction and Earthquake-Triggered Landslides, have not been evaluated for this area.

ADDITIONAL INFORMATION

For additional information on the zones of required investigation presented on this map, the data and methodology used to prepare them, and additional references consulted, please refer to the following:

The West Tahoe Fault in the Emerald Bay and Echo Lake Quadrangles, El Dorado County, California, California Geological Survey, Fault Evaluation Report FER-261.
<http://ftp.consrv.ca.gov/pub/dmg/pubs/fer/261/>

For more information on the Alquist-Priolo Earthquake Fault Zoning Act please refer to: <http://www.conservation.ca.gov/cgs/rgh/mfap/Pages/main.aspx>

EMERALD BAY QUADRANGLE

EARTHQUAKE FAULT ZONES

Delineated in compliance with
Chapter 7.5 Division 2 of the California Public Resources Code
(Alquist-Priolo Earthquake Fault Zoning Act)

OFFICIAL MAP

Released: June 10, 2016

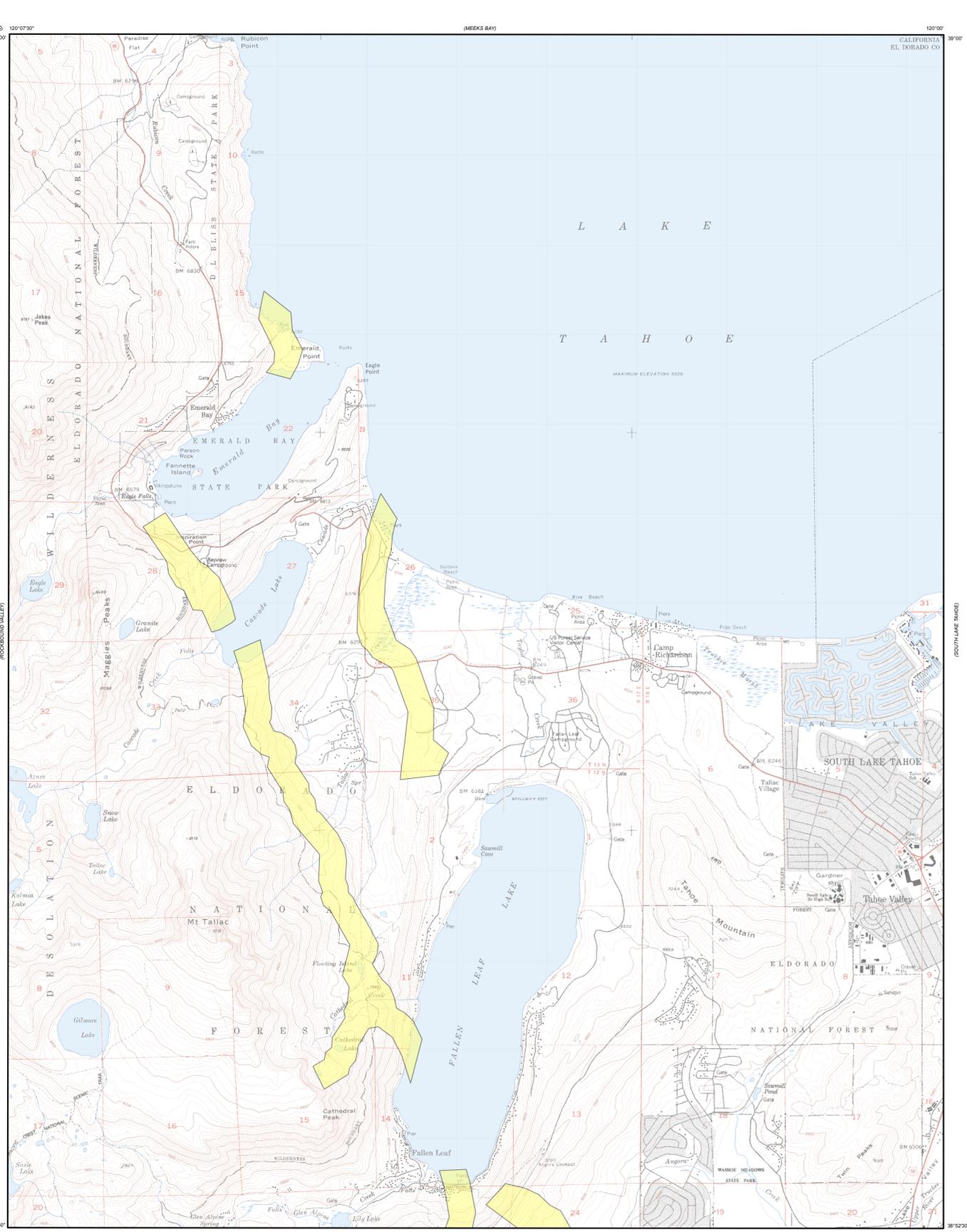
John G. Parrish
STATE GEOLOGIST



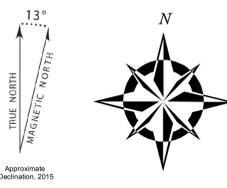
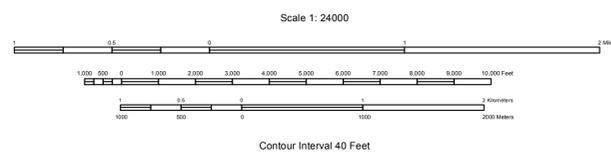
IMPORTANT

PLEASE NOTE THE FOLLOWING FOR ZONES SHOWN ON THIS MAP

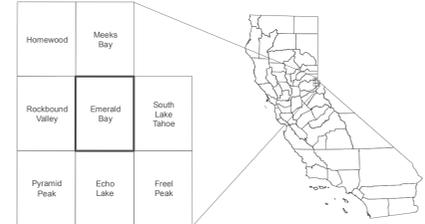
- This map may not show all faults that have the potential for surface fault rupture, either within the Earthquake Fault Zones or outside their boundaries. Additionally, this map may not show all areas that have the potential for liquefaction, landsliding, strong earthquake ground shaking or other earthquake and geologic hazards. Also, a single earthquake capable of causing liquefaction or triggering landslide failure will not uniformly affect the entire area zoned.
- Faults shown are the basis for establishing the boundaries of the Earthquake Fault Zones.
- The identification and location of these faults are based on the best available data. However, the quality of data used is varied. Traces have been depicted as accurately as possible at a map scale of 1:24,000.
- Liquefaction zones may also contain areas susceptible to the effects of earthquake-induced landslides. This situation typically exists at or near the toes of existing landslides, downslope from rockfall or debris flow source areas, or adjacent to steep stream banks.
- Landslide zones on this map were determined, in part, by adapting methods first developed by the U.S. Geological Survey (USGS). Landslide hazard maps prepared by the USGS typically use experimental approaches to assess earthquake-induced and other types of landslide hazards. Although aspects of these new methodologies may be incorporated in future CGS seismic hazard zone maps, USGS maps should not be used as substitutes for these Official SEISMIC HAZARD ZONES maps.
- USGS base map standards provide that 90 percent of cultural features be located within 40 feet (horizontal accuracy) at the scale of this map. The identification and location of liquefaction and earthquake-induced landslide zones are based on available data. However, the quality of data used is varied. The zone boundaries depicted have been drawn as accurately as possible at this scale.
- Information on this map is not sufficient to serve as a substitute for the geologic and geotechnical site investigations required under Chapters 7.5 and 7.8 of Division 2 of the California Public Resources Code.
- Seismic Hazard Zones identified on this map may include developed land where delineated hazards have already been mitigated to city or county standards. Check with your local building/planning department for information regarding the location of such mitigated areas.
- DISCLAIMER: The State of California and the Department of Conservation make no representations or warranties regarding the accuracy of the data from which these maps were derived. Neither the State nor the Department shall be liable under any circumstances for any direct, indirect, special, incidental or consequential damages with respect to any claim by any user or any third party on account of or arising from the use of this map.



North American Datum 1983, California Teale Albers (meters).
Shaded topographic relief derived from USGS NED 10 meter DEM.
Topographic base map from USGS, 1965, photorevised, 1969.
Street data from US Census Bureau TIGER/Line, 2015.



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Geologic Information and Publications
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Sacramento, CA 95814-3532
www.conservation.ca.gov/cgs



STATE OF CALIFORNIA California Geological Survey Earthquake Zones of Required Investigation Echo Lake Quadrangle

THIS MAP SHOWS ALQUIST-PRIOLO EARTHQUAKE FAULT ZONES.
SEISMIC HAZARD ZONES HAVE NOT BEEN PREPARED FOR THE ECHO LAKE QUADRANGLE

This map shows the location of Alquist-Priolo (AP) Earthquake Fault Zones referred to here as Earthquake Zones of Required Investigation. The Geographic Information System (GIS) digital files of these regulatory zones released by the California Geological Survey (CGS) are the "Official Maps." GIS files are available at the CGS website <http://maps.conservation.ca.gov/gis/information/warehouse/>. These zones will assist cities and counties in fulfilling their responsibilities for protecting the public from the effects of surface fault rupture and earthquake-triggered ground failure as required by the AP Earthquake Fault Zoning Act (Public Resources Code Sections 2621-2630) and the Seismic Hazards Mapping Act (Public Resources Code Sections 2690-2699.6). For information regarding the general approach and recommended methods for preparing these

zones, see California Geological Survey (CGS) Special Publication 42, *Fault-Rupture Hazard Zones in California*, and Special Publication 116, *Recommended Criteria for Delineating Seismic Hazard Zones in California*.

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MAP EXPLANATION

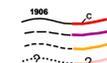
ALQUIST-PRIOLO EARTHQUAKE FAULT ZONES

Earthquake Fault Zones
Zone boundaries are delineated by straight-line segments; the boundaries define the zone encompassing active faults that constitute a potential hazard to structures from surface faulting or fault creep such that avoidance as described in Public Resources Code Section 2621.5(a) would be required.



Active Fault Traces

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ECHO LAKE QUADRANGLE EARTHQUAKE FAULT ZONES

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OFFICIAL MAP

Released: June 10, 2016

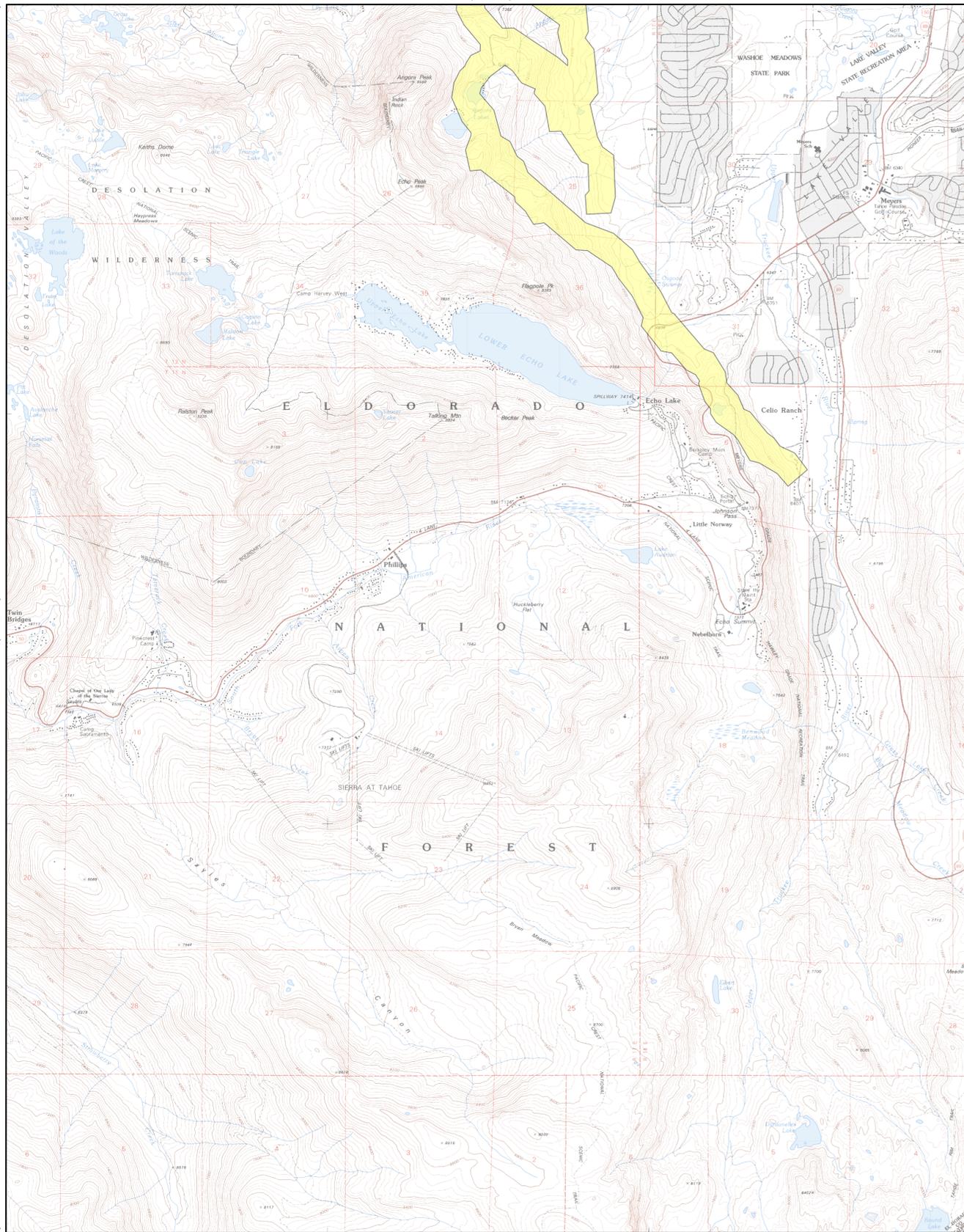
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IMPORTANT

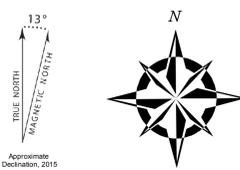
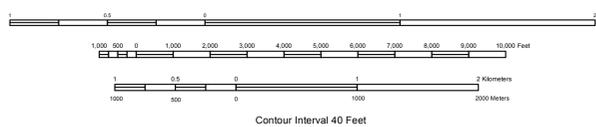
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North American Datum 1983, California Teale Albers (meters).
Shaded topographic relief derived from USGS NED 10 meter DEM.
Topographic base map from USGS, 1992.
Street data from US Census Bureau TIGERLine, 2015.

Scale 1: 24000



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Rockbound Valley	Emerald Bay	South Lake Tahoe
Pyramid Peak	Echo Lake	Free Peak
Tragedy Spring	Caples Lake	Carson Pass