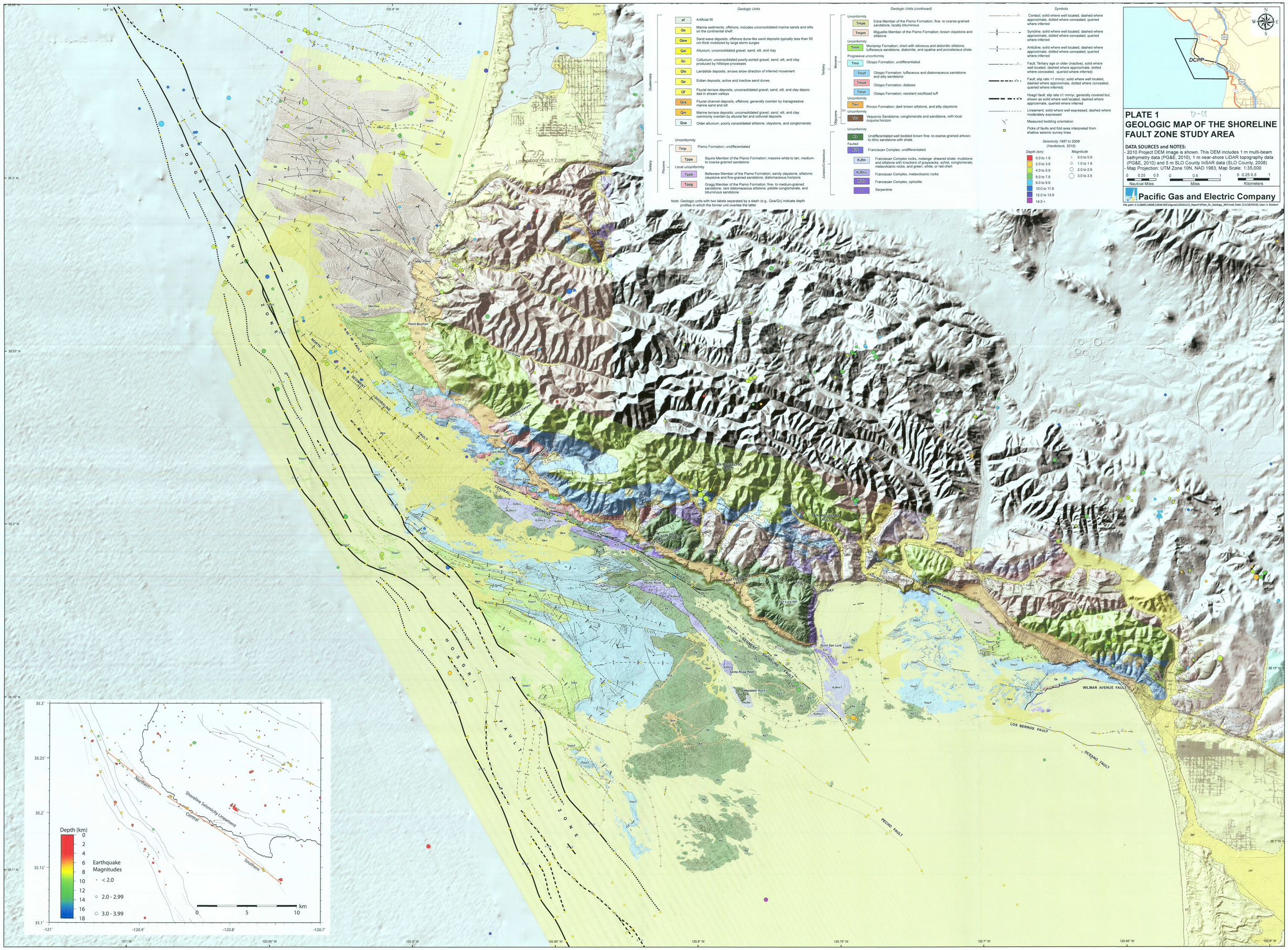

Geologic Units

af — Artificial fill

Quaternary

- Qs — Marine sediments, offshore; includes unconsolidated marine sands and silts on the continental shelf
- Qsw — Sand wave deposits, offshore dune-like sand deposits typically less than 50 cm thick mobilized by large storm surges
- Qal — Alluvium; unconsolidated gravel, sand, silt, and clay
- Qc — Colluvium; unconsolidated poorly-sorted gravel, sand, silt, and clay produced by hillslope processes
- Qls — Landslide deposits; arrows show direction of inferred movement
- Qe — Eolian deposits; active and inactive sand dunes
- Qf — Fluvial terrace deposits; unconsolidated gravel, sand, silt, and clay deposited in stream valleys
- Qcs — Fluvial channel deposits, offshore; generally overlain by transgressive marine sand and silt
- Qm — Marine terrace deposits; unconsolidated gravel, sand, silt, and clay commonly overlain by alluvial fan and colluvial deposits
- Qoa — Older alluvium; poorly consolidated siltstone, claystone, and conglomerate

Tertiary

Pliocene

- Unconformity
- Tmp — Pismo Formation; undifferentiated
- Tpps — Squire Member of the Pismo Formation; massive white to tan, medium- to coarse-grained sandstone
- Local unconformity
- Tppb — Belleview Member of the Pismo Formation; sandy claystone, siltstone; claystone and fine-grained sandstone, diatomaceous horizons
- Tppg — Gragg Member of the Pismo Formation; fine- to medium-grained sandstone, rare diatomaceous siltstone, pebble conglomerate, and bituminous sandstone

Note: Geologic units with two labels separated by a slash (e.g., Qoa/Qc) indicate depth profiles in which the former unit overlies the latter.

Geologic Units (continued)

Tertiary

Miocene

- Unconformity
- Tmpe — Edna Member of the Pismo Formation; fine- to coarse-grained sandstone, locally bituminous
- Tmpm — Miguelito Member of the Pismo Formation; brown claystone and siltstone
- Unconformity
- Tmm — Monterey Formation; chert with siliceous and dolomitic siltstone, tuffaceous sandstone, diatomite, and opaline and procelaneus shale
- Progressive unconformity
- Tmo — Obispo Formation, undifferentiated
- Tmof — Obispo Formation; tuffaceous and diatomaceous sandstone and silty sandstone
- Tmod — Obispo Formation; diabase
- Tmor — Obispo Formation; resistant zeolitized tuff

Oligocene

- Unconformity
- Tmr — Rincon Formation; dark brown siltstone, and silty claystone
- Unconformity
- Tpo — Vaqueros Sandstone; conglomerate and sandstone, with local coquina horizon

Jurassic/Cretaceous

- Unconformity
- Ka — Undifferentiated well bedded brown fine- to coarse-grained arkosic to lithic sandstone with shale
- Faulted
- KJfr — Franciscan Complex, undifferentiated
- KJfm — Franciscan Complex rocks, melange: sheared shale, mudstone and siltstone with knockers of graywacke, schist, conglomerate, metavolcanic rocks, and green, white, or red chert
- KJfmv — Franciscan Complex, metavolcanic rocks
- KJfo — Franciscan Complex, ophiolite
- Ks — Serpentine

Symbols

- Contact; solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Syncline; solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Anticline; solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Fault; Tertiary age or older (inactive), solid where well located, dashed where approximate, dotted where concealed, queried where inferred)
- Fault; slip rate <1 mm/yr, solid where well located, dashed where approximate, dotted where concealed, queried where inferred)
- Hosgri fault; slip rate ≥1 mm/yr, generally covered but, shown as solid where well located, dashed where approximate, queried where inferred
- Lineament; solid where well expressed, dashed where moderately expressed
- Measured bedding orientation
- Picks of faults and fold axes interpreted from shallow seismic survey lines

Seismicity 1987 to 2008 (Hardebeck, 2010)

Depth (km)	Magnitude
0.0 to 1.9	0.0 to 0.9
2.0 to 3.9	1.0 to 1.9
4.0 to 5.9	2.0 to 2.9
6.0 to 7.9	3.0 to 3.5
8.0 to 9.9	
10.0 to 11.9	
12.0 to 13.9	
14.0 +	

DCPP

PLATE 1
GEOLOGIC MAP OF THE SHORELINE FAULT ZONE STUDY AREA

DATA SOURCES and NOTES:

- 2010 Project DEM image is shown. This DEM includes 1 m multi-beam bathymetry data (PG&E, 2010), 1 m near-shore LIDAR topography data (PG&E, 2010) and 5 m SLO County InSAR data (SLO County, 2008)
- Map Projection: UTM Zone 10N, NAD 1983, Map Scale: 1:35,000

0 0.25 0.5 Nautical Miles; 0 0.5 1 Miles; 0 0.25 0.5 1 Kilometers

Pacific Gas and Electric Company

File path: S:\13800\13838\13838.002\Figures\20101112_Report\Plate_01_Geology_36X.mxd; Date: [11/18/2010]; User: S. Bockhurt