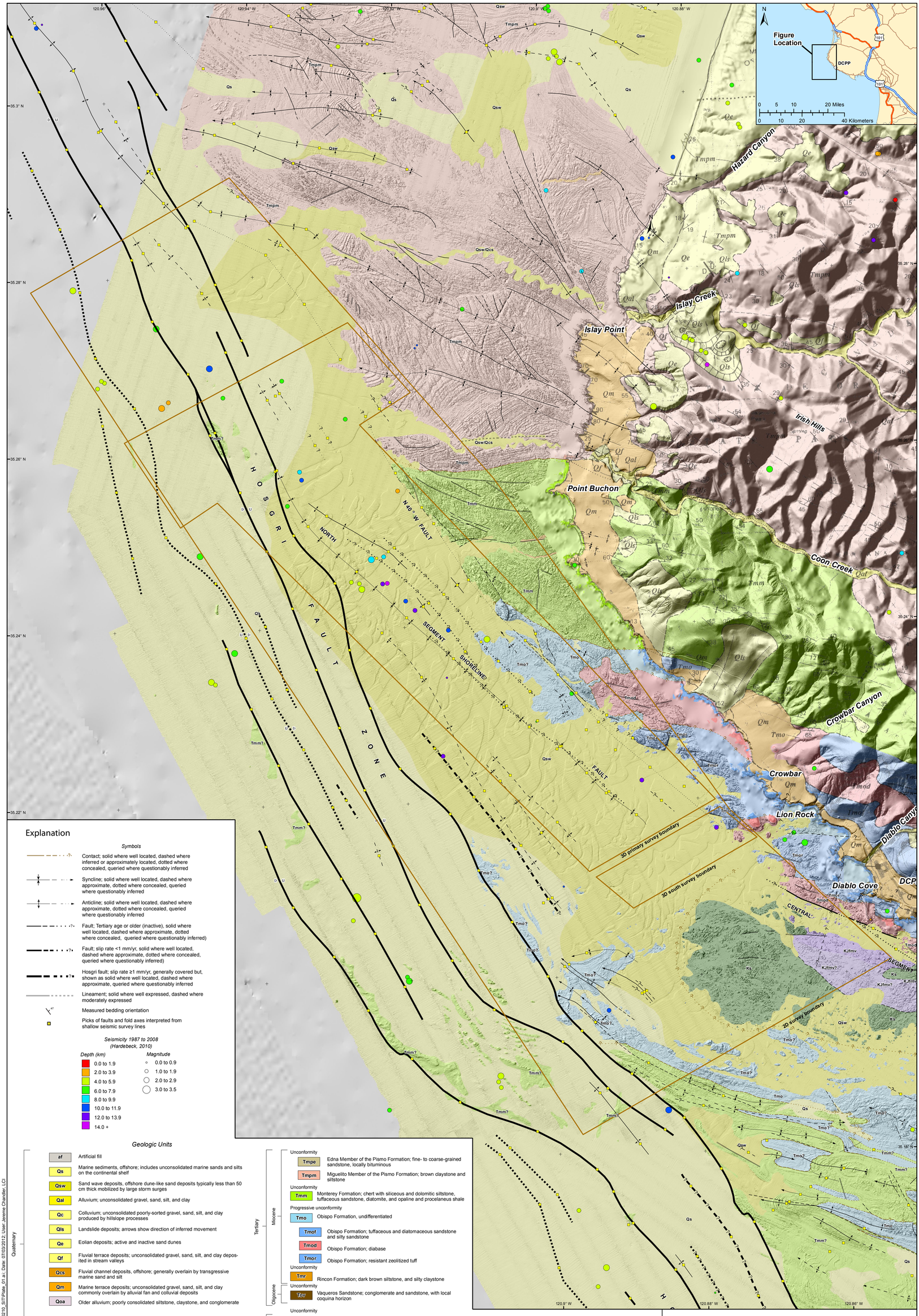

Explanation

Symbols

- Contact; solid where well located, dashed where inferred or approximately located, dotted where concealed, queried where questionably inferred
- Syncline; solid where well located, dashed where approximate, dotted where concealed, queried where questionably inferred
- Anticline; solid where well located, dashed where approximate, dotted where concealed, queried where questionably inferred
- Fault; Tertiary age or older (inactive), solid where well located, dashed where approximate, dotted where concealed, queried where questionably inferred)
- Fault; slip rate <1 mm/yr, solid where well located, dashed where approximate, dotted where concealed, queried where questionably inferred)
- Hosgri fault; slip rate ≥1 mm/yr, generally covered but, shown as solid where well located, dashed where approximate, queried where questionably 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 +	

Geologic Units

Quaternary

- af — Artificial fill
- 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.

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

Unconformity

- Tmr — Rincon Formation; dark brown siltstone, and silty claystone

Oligocene

Unconformity

- Tov — Vaqueros Sandstone; conglomerate and sandstone, with local coquina horizon

Jurassic/Cretaceous

Unconformity

- Ks — Undifferentiated well bedded brown fine- to coarse-grained arkosic to lithic sandstone with shale

Faulted

- KJf — 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
- s — Serpentine

Approximate survey boundaries

Note: Geologic map shown here is an excerpt of Plate 1 from PG&E (2011b). Not all geologic units in the explanation are present on the map

N W E S

Map scale: 1:20,000
Map projection: NAD 1983, UTM Zone 10 North

0 1,000 2,000 4,000 Feet
0 500 1,000 Meters

Geology of Interpreted Offshore Structures from the 2011 Shoreline Fault Zone Report (PG&E, 2011b)

DCPP 3D/2D Seismic-Reflection Investigation

Pacific Gas and Electric Company

Plate 1

File path: S:\13800\13838\13838.002\Figures\20120210_SIT\Plate_01.ai ; Date: 07/03/2012; User: Jerome Chandler, LCI