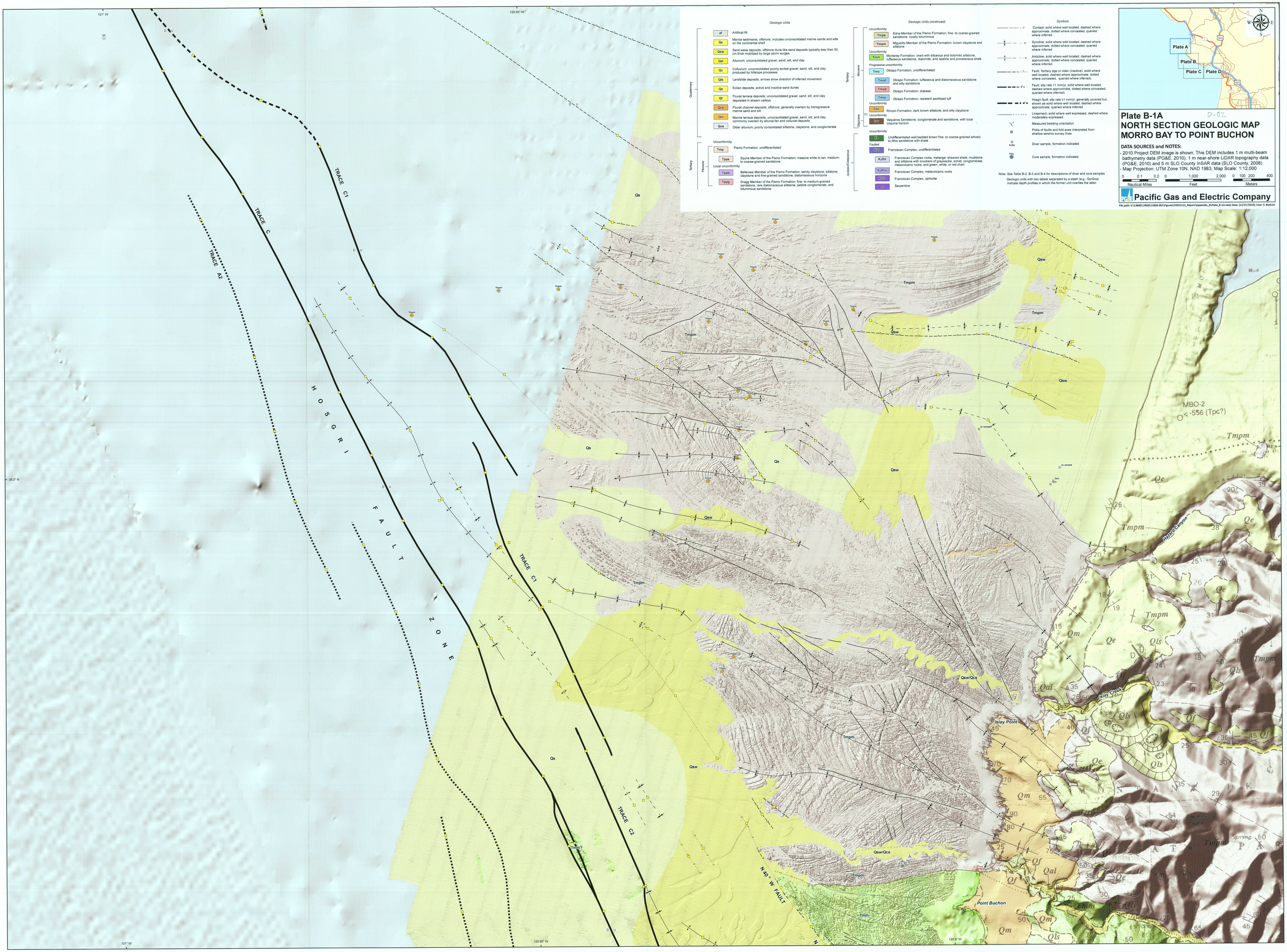
Geologic Units
Quaternary
af Artificial fill
Qs Marine sediments, offshore; includes unconsolidated marine sands and silts on the continental shelf
Qsw Sand wave deposits, offshore dune-like sand deposits typically less than 50 cm thick mobilized by large storm surges
Qal Alluvium; unconsolidated gravel, 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
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
Unconformity
Oligocene
Tmr Rincon Formation; dark brown siltstone, and silty claystone
Unconformity
Tmv Vaqueros Sandstone; conglomerate and sandstone, with local coquina horizon
Unconformity
Jurassic/Cretaceous
KJfm Undifferentiated well bedded brown fine- to coarse-grained arkosic to lithic sandstone with shale
Faulted
KJfr Franciscan Complex, undifferentiated
KJfm Franciscan Complex, 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
KJfc Franciscan Complex; ophiolite
Ls 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
KJfm Diver sample, formation indicated
Tpp Core sample, formation indicated
Note: See Table B-2, B-3 and B-4 for descriptions of diver and core samples
Geologic units with two labels separated by a slash (e.g., Qc/Qoa) indicate depth profiles in which the former unit overlies the latter.
Plate A
Plate B
Plate C
Plate D
Plate B-1A
NORTH SECTION GEOLOGIC MAP
MORRO BAY TO POINT BUCHON
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: 1:12,000
Nautical Miles
Feet
Meters
Pacific Gas and Electric Company
TRACE C1
TRACE C
TRACE A2
HOSGRI FAULT ZONE
TRACE C2
N 40° W FAULT
Islay Creek
Islay Point
Point Buchon
Hazard Canyon
MBO-2
-556 (Tpc?)
Tmpm
Qsw
Qs
Qe
Qm
Qls
Qf
Qal
Qsw/Qcs
121° W
120.95° W
120.9° W
35.3° N