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Geologic Map of the Floras Lake and Langlois 7.5' Quadrangles, Curry and Coos Counties, Oregon

2014

OPEN-FILE REPORT O-14-01

Geologic Map of the Southern Oregon Coast
Between Port Orford and Bandon,
Curry and Coos Counties, Oregon

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PLATE 2

NOTE: These data were mapped at 1:8,000 scale; 1:24,000-scale plates cannot show all the detail
of 1:8,000-scale mapping. Please use the geodatabase to explore in full detail.

EXPLANATION OF MAP UNITS

See Explanation of Map Units (in pamphlet) for complete unit descriptions.

UPPER CENOZOIC SURFICIAL DEPOSITS

ANTHROPOCENE SURFICIAL DEPOSITS

- Af modern fill and construction material (Anthropocene)
- Aa alluvium (Anthropocene)
- Als landslide deposits (Anthropocene)
- Auf debris fan deposits (Anthropocene)
- Abn beach and berm deposits (Anthropocene)
- Ada foredune deposits (Anthropocene)

ANTHROPOCENE AND HOLOCENE SURFICIAL DEPOSITS

- AHcl coastal lacustrine deposits (Anthropocene and Holocene)
- AHcm coastal marsh deposits (Anthropocene and Holocene)
- AHdu unvegetated dune deposits (Anthropocene and Holocene)
- AHdv vegetated dune deposits (Anthropocene and Holocene)
- AHdp deflation plain sand (Anthropocene and Holocene)

HOLOCENE SURFICIAL DEPOSITS

- Ha alluvium (Holocene)
- Haf alluvial fan deposits (Holocene)
- Hdf debris fan deposits (Holocene)
- HS landslide deposits (Holocene)

QUATERNARY SURFICIAL DEPOSITS

- Qaf alluvial fan deposits (Holocene and Pleistocene)
- Qls landslide deposits (Holocene and Pleistocene)
- Qcu colluvium (Holocene and Pleistocene)
- Qds upland coastal dune deposits (Holocene and Pleistocene)

Fluvial terrace deposits and strath terraces (upper Pleistocene)

- Qs1 fluvial terrace sediments 1 (upper Pleistocene)
- Qs2 fluvial terrace sediments 2 (upper Pleistocene)
- Qs3 fluvial terrace sediments 3 (upper Pleistocene)
- Qs4 fluvial terrace sediments 4 (upper Pleistocene)

Coastal marine terrace deposits (Pleistocene)

- Qmhc Cape Blanco terrace sediments (south of Floras Creek, upper Pleistocene, ~80 ka)
- Qmhw Whiskey Run terrace sediments (north of Floras Creek, upper Pleistocene, ~80 ka)
- Qmhp Pioneer terrace sediments (upper Pleistocene, ~105 ka)
- Qmhd Seven Devils terrace sediments (north of Floras Creek, upper Pleistocene, ~125 ka)

Unconformity

LOWER PLEISTOCENE AND MIOCENE ROCKS

MIOCENE SEDIMENTARY ROCKS

- Tme Empire Formation (upper Miocene, Wiskahan Pacific Northwest Molluscan Stage)

Unconformity

- Tmf sandstone of Floras Lake (lower and middle Miocene, Wiskahan and Newportian Pacific Northwest Molluscan Stages)

Unconformity

LOWER CENOZOIC AND MESOZOIC ROCKS

SIXES RIVER TERRANE

- Cape Blanco (western) subterrane
 - Tav volcanic and meta-volcanic rocks
 - Tav melange blocks, undivided

Faulted Subterrane Boundary

- Fulmar (central) subterrane
 - Tafm sandstone of Fiveville Point (lower Eocene)
 - Ku sandstone and mudstone turbidites (Upper Cretaceous)

Unconformity

- KJs melange of Sixes River (Upper(?) Cretaceous to Jurassic)
- Kls sandstone
- Klav volcanic and meta-volcanic rocks
- Klsc chert
- Klab blueschist
- Klam other metamorphic rocks
- Klap serpentinite and meta-serpentinite
- Klv melange blocks, undivided

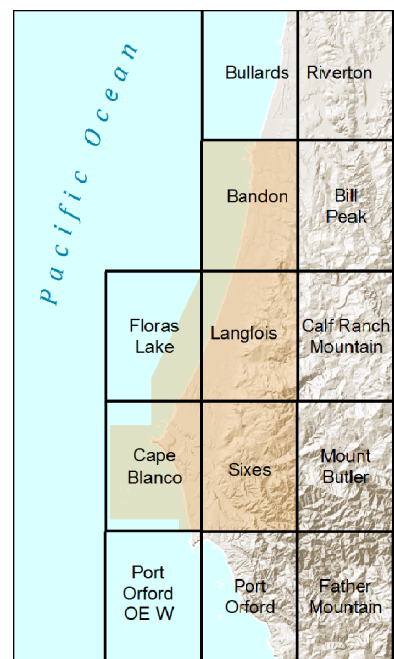
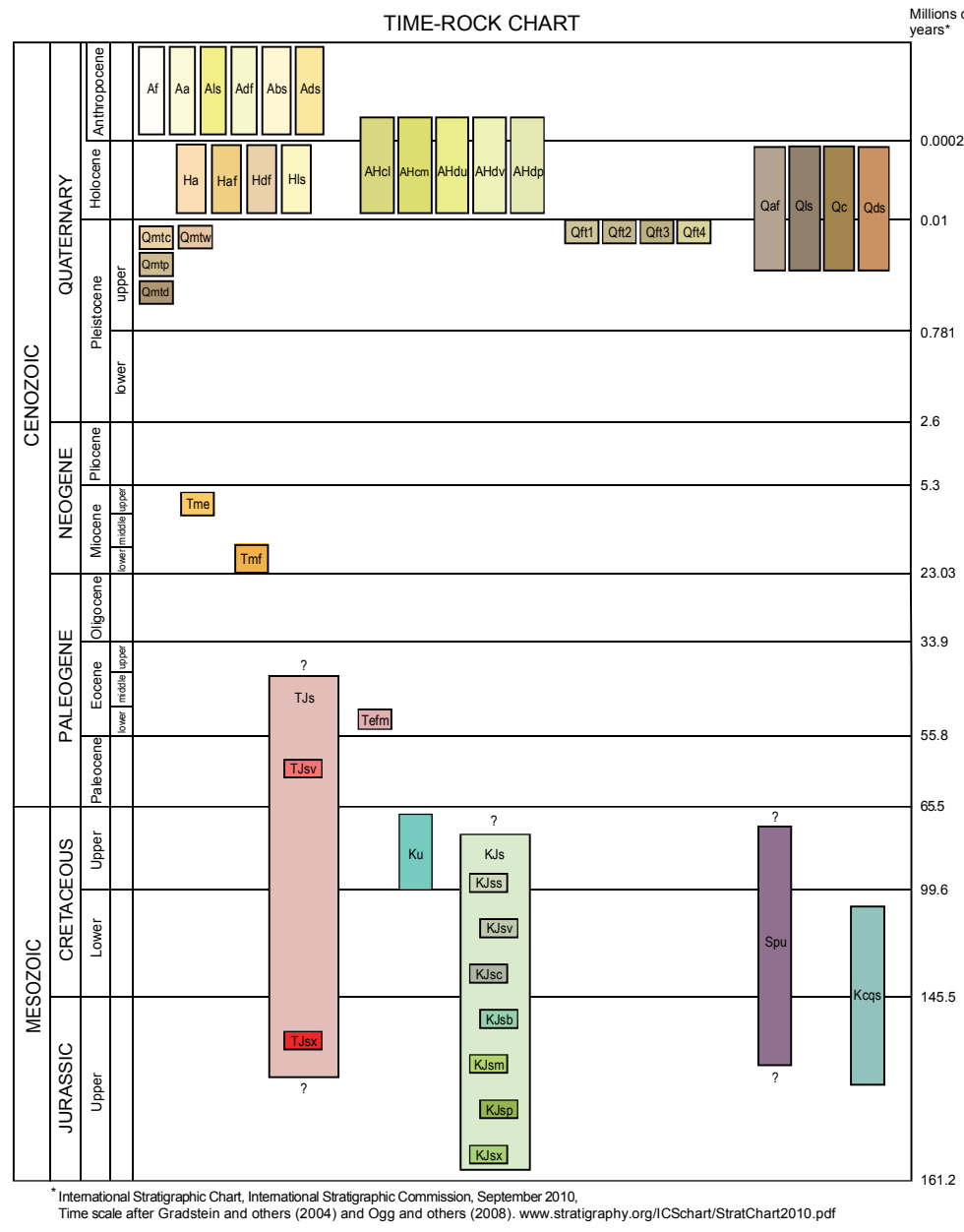
Faulted Terrane Boundary

PICKETT PEAK TERRANE

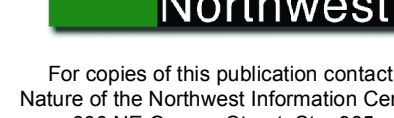
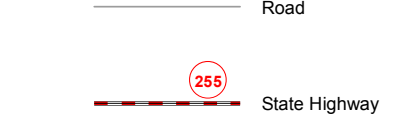
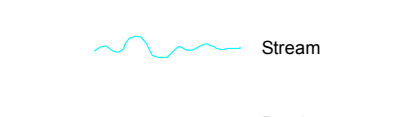
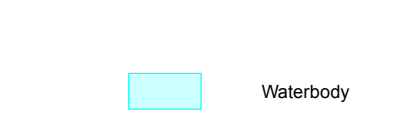
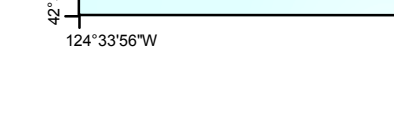
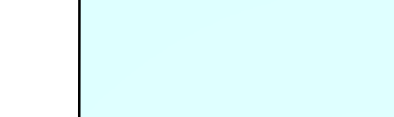
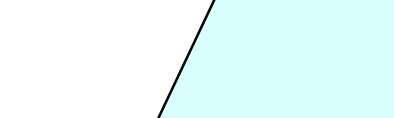
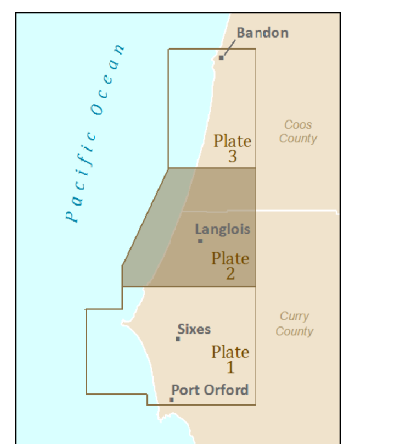
- Kps Colebrook Schist (Upper Jurassic origin, Lower Cretaceous or later emplacement, 128.3 ± 6, 128.6 ± 6, 141.9 ± 10 Ma, K/Ar whole rock; metamorphic age)

OTHER ROCKS

- Spu serpentinite, serpentinite-matrix melange, and serpentinitized ultramafic rock, undivided (Cretaceous(?) and Upper Jurassic(?))



(below) Location map. (left) Project area, U.S. Geological Survey
7.5-minute quadrangles. (below left) Map plate extent shown with a
filled semi-transparent dark brown polygon.



Source Data: DOGAMI Lidar Data Quadrangles LDQ-2009-42124-H5-Floras Lake and LDQ-2009-42124-
H4-Langlois. Geologic data, water features (mapped to lidar extent), and 10-m digital elevation models
from Oregon Department of Geology and Mineral Industries (2010). Transportation data are from Curry
County (2010) and were edited by DOGAMI to improve spatial accuracy of features or to add newly
constructed features not present in the original data layer.

Projection: Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum:
NAD 1983 HARN.

Software: Esri ArcGIS® 10.1 and Adobe® Illustrator® CS6

Time-Rock Chart References: Gradstein, F. M., Ogg, J. G., and Smith, A. G., eds., 2004, A geologic
time scale 2004; Cambridge, U.K., Cambridge University Press, 589 p.
Ogg, J. G., Ogg, G., and Gradstein, F. M., 2008, The concise geologic time scale: Cambridge University
Press, 177 p.

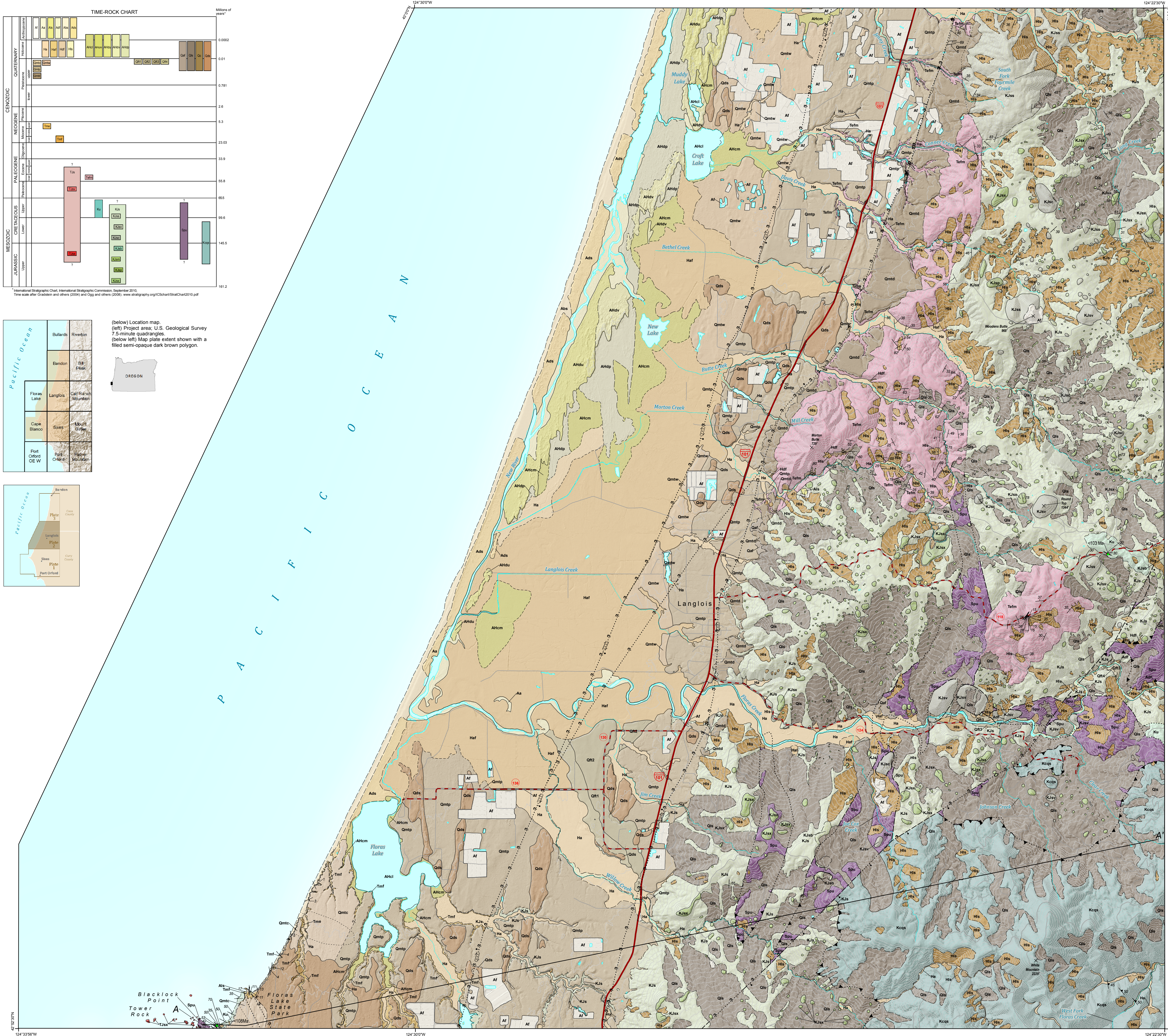
Field Work: Conducted in 2013 and 2014 by Thomas J. Wiley, Jason D. McLaughry, Lina Ma, Katherine
A. Mickelson, Clark A. Newendrop, and Heather H. Herinckx

Cartography: Daniel E. Coe

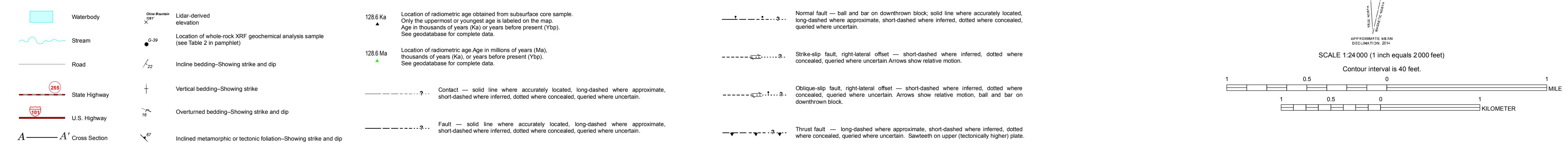
NOTICE: This map cannot serve as a substitute for site-specific investigations by qualified practitioners. Site-
specific data may give results that differ from those shown on the map. The views and conclusions contained in
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EXPLANATION OF SYMBOLS FOR ALL MAP PLATES



GEOLOGIC CROSS SECTION

Selected Quaternary units not shown in cross section.

