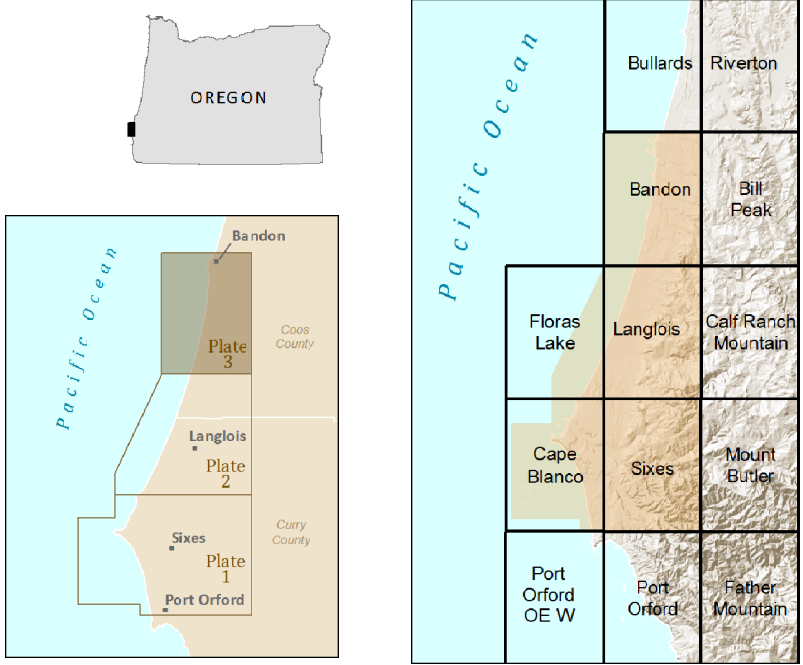
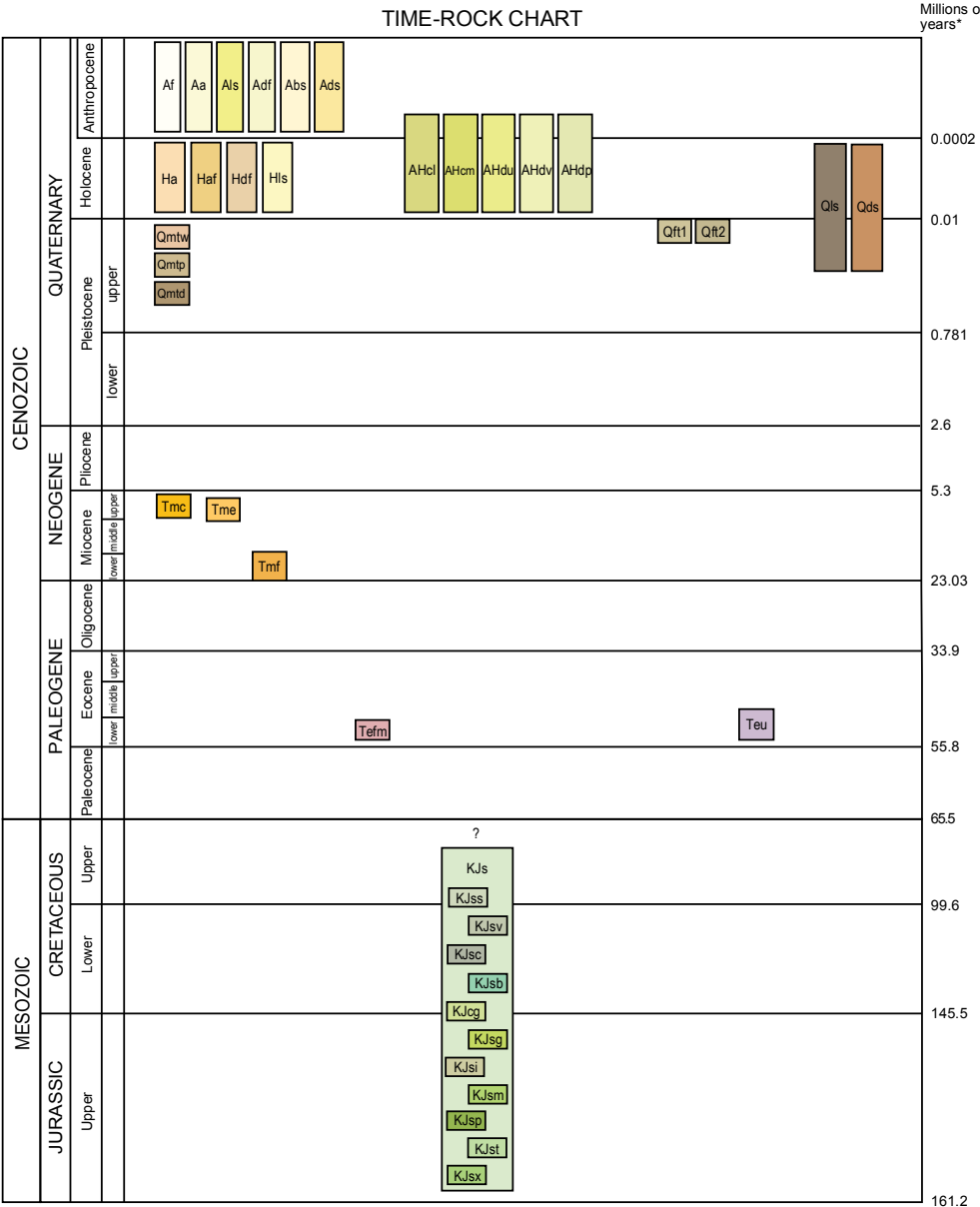


STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
www.OregonGeology.org
W. Lawrence Givens, Governing Board Chair
Vicki S. McConnell, Director and State Geologist
Andrew V. Follak, Assistant Director, Geologic Survey and Services
Rachel L. Smith, Project Operations Manager
Ian P. Madin, Chief Scientist



Clockwise starting at top left:
Location map.
Project area, U.S. Geological Survey 7.5-minute quadrangles.
Map plate extent shown with a filled semi-opaque dark brown polygon.



International Stratigraphic Chart, International Geoscience Collaboration, September 2010.
Time scale after Gradstein and others (2004) and Ogg and others (2005). www.stratigraphy.org/Chart/StratChart010.pdf

NOTE: These data were mapped at 1:5,000 scale; 1:24,000-scale plates cannot show all the detail of 1:5,000-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**
- Al modern fill and construction material (Anthropocene)
 - Aa alluvium (Anthropocene)
 - Als landslide deposits (Anthropocene)
 - Adf debris fan deposits (Anthropocene)
 - Abs beach and berm deposits (Anthropocene)
 - Ads 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)
 - Ahfv 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)
- Hls landslide deposits (Holocene)

QUATERNARY SURFICIAL DEPOSITS

- Qls landslide deposits (Holocene and upper Pleistocene)
- Qds upland coastal dune deposits (Holocene and upper Pleistocene)

Fluvial terrace deposits and strath terraces (upper Pleistocene)

- Qnt1 fluvial terrace sediments 1 (upper Pleistocene)
- Qnt2 fluvial terrace sediments 2 (upper Pleistocene)

Coastal marine terrace deposits (Pleistocene)

- Qmtw Whiskey Run terrace sediments (north of Floras Creek, upper Pleistocene, ~80 ka)
- Qmtp Pioneer terrace sediments (upper Pleistocene, ~105 ka)
- Qmtd Seven Devils terrace sediments (north of Floras Creek, upper Pleistocene, ~125 ka)

Unconformity

LOWER PLEISTOCENE AND MIOCENE ROCKS

MIOCENE SEDIMENTARY ROCKS

- Tmc diatomite of China Creek (upper Miocene, Messinian Stage)
- Tme Empire Formation (upper Miocene, Washkahan Pacific Northwest Molluscan Stage)

Unconformity

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

Unconformity

LOWER CENOZOIC AND MESOZOIC ROCKS

PALEOGENE SEDIMENTARY ROCKS

- Tsu Umpqua Group (lower to middle Eocene)

Unconformity (?)

SIXES RIVER TERRANE

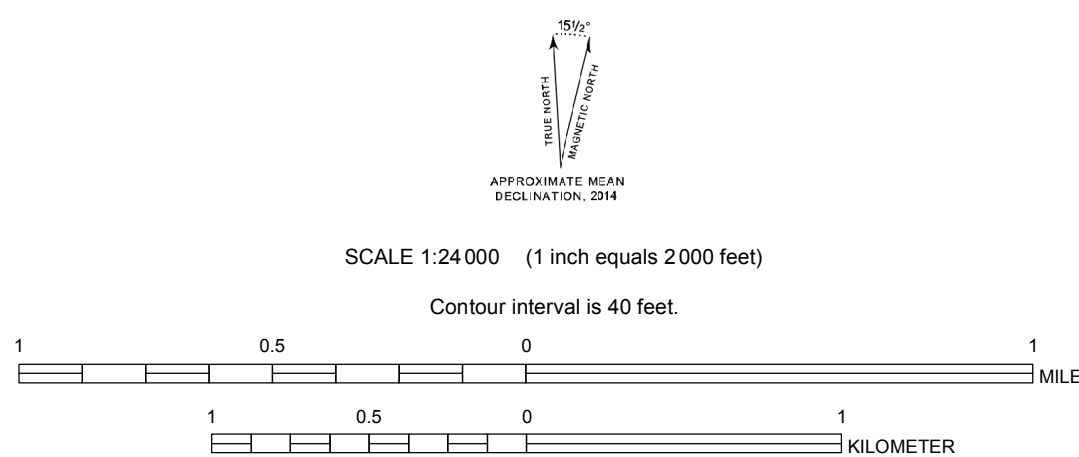
Fulmar (central) subterrane

- Tefm sandstone of Fivemile Point (lower Eocene)

Unconformity

- Kls melange of Sixes River (Upper(?) Cretaceous to Jurassic)

- Khs sandstone
- Khv volcanic and meta-volcanic rocks
- Khc chert
- Khb blueschist
- Khg conglomerate
- Khg garnet schist
- Khl coarse-grained igneous rocks
- Klsm other metamorphic rocks
- Khp serpentinite and meta-serpentinite
- Ksl siltstone
- Klx melange blocks, undivided



Geologic Map of the Bandon 7.5' Quadrangle, Coos County, Oregon

2014

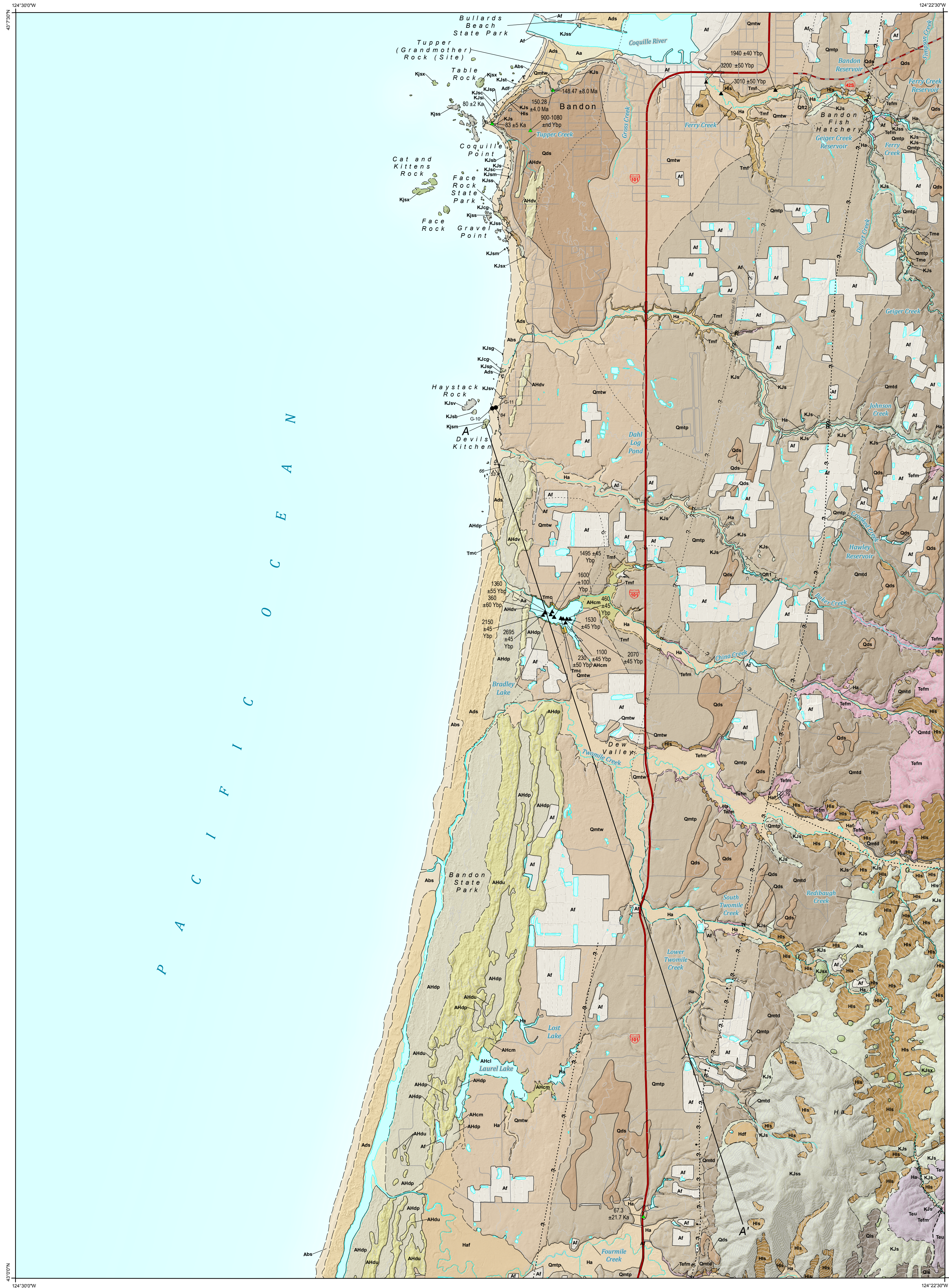
OPEN-FILE REPORT O-14-01

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

By Thomas J. Wiley, Jason D. McClaughry, Lina Ma,
Katherine A. Mickelson, Clark A. Niewendorf, Laura L. Stimeley,
Heather H. Herinckx, and Jonathan Rivas

This project was supported by the U.S. Geological Survey, National
Cooperative Geologic Mapping Program under USGS award number
G13AC00137.

PLATE 3

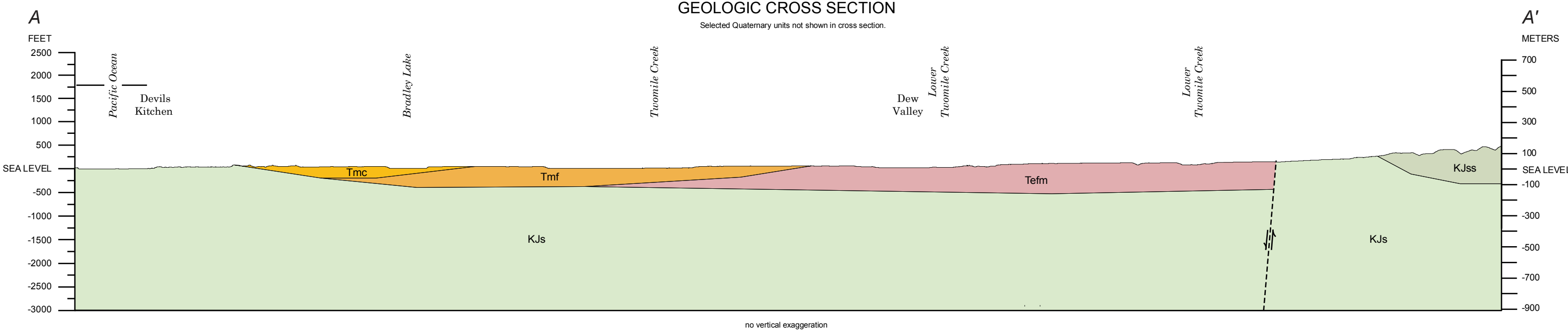


EXPLANATION OF SYMBOLS FOR ALL MAP PLATES

- Waterbody
- Stream
- Road
- State Highway
- U.S. Highway
- Cross Section
- Lidar-derived elevation
- Location of whole rock XRF geochemical analysis sample (see Table 2 in pamphlet)
- Incline bedding—Showing strike and dip
- Vertical bedding—Showing strike
- Overturned bedding—Showing strike and dip
- Inclined metamorphic or tectonic foliation—Showing strike and dip
- Location of radiometric age obtained from subsurface core sample. Only the uppermost or youngest age is labeled on the map. Age in thousands of years (ka) or years before present (Ybp). See geodatabase for complete data.
- Location of radiometric age Age in millions of years (Ma). Thousands of years (ka), or years before present (Ybp). See geodatabase for complete data.
- Contact — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.
- Fault — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain. Sawtooth on upper (tectonically higher) plate.
- Normal fault — ball and bar on downthrown block, solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.
- Strike-slip fault, right-lateral offset — short-dashed where inferred, dotted where concealed, queried where uncertain. Arrows show relative motion, ball and bar on downthrown block.
- Oblique-slip fault, right-lateral offset — short-dashed where inferred, dotted where concealed, queried where uncertain. Arrows show relative motion, ball and bar on downthrown block.
- Thrust fault — long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain. Sawtooth on upper (tectonically higher) plate.

GEOLOGIC CROSS SECTION

Selected Quaternary units not shown in cross section.



Source Data: DOGAMI Lidar Data Quadrangles LDQ-2009-43124-A4-Bandon. Geologic data, water features (mapped to lidar extent), and 10-m digital elevation models from Oregon Department of Geology and Mineral Industries (2014). Transportation data are from Curry and Coos Counties (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: Eri 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, 389 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. McClaughry, Lina Ma, Katherine A. Mickelson, Clark A. Niewendorf, 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 this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. government.



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Nature of the Northwest Information Center
800 NE Oregon Street, Ste. 965
Portland, OR 97232
Telephone (503) 673-2331
http://www.NatureNW.org