

Geologic Map of the Bill Peak 7.5' Quadrangle, Coos County, Oregon 2015

OPEN-FILE REPORT O-15-04

Geologic Map of the Southern Oregon Coast
Between Bandon, Coquille, and Sunset Bay,
Coos County, Oregon
By Thomas J. Wiley, Jason D. McClaughry, Clark A. Niewendorf,
Lina Ma, Heather H. Horvick, and Katherine A. Mickelson
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PLATE 1

EXPLANATION OF MAP UNITS

See Explanation of Map Units in the accompanying pamphlet for complete unit descriptions.

NOTE: Geology was mapped at a maximum scale of 1:8,000; 1:24,000-scale plates cannot show all the detail of 1:8,000-scale geologic mapping. Please use the original digital source data contained in the accompanying Eri ArcGIS® geodatabase to explore the geology and structure in full detail.

UPPER CENOZOIC SURFICIAL DEPOSITS

ANTHROPOCENE SURFICIAL DEPOSITS

Al	modern fill and construction material (Anthropocene)
alluvium (Anthropocene)	
Aac	channel deposits (Anthropocene)
Als	landslide deposits (Anthropocene)
Aaf	alluvial fan deposits (Anthropocene)

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(?))
Coastal marine terrace deposits (Pleistocene)-divided to show:	
Qmp	Pioneer terrace sediments (upper Pleistocene, ~105 ka)
Qmd	Seven Devils terrace sediments (north of Floras Creek, upper to middle Pleistocene, ~125 ka)
Qmm	Metal terrace sediments (middle Pleistocene)



Empire	North Bend	Alegany
Cape Arago	Charleston	Coos Bay
Bulards	Riverton	Coquille
Bandon	Bill Peak	Myrtle Point
Floras Lake	Langlois	Calif. Ranch Mountain
		Dement Creek
		Powers Creek

- Clockwise starting at top left:
1. Location map.
2. Project area with U.S. Geological Survey 7.5-minute quadrangles outlined in brown and map plate extent shown with a filled semi-opaque orange polygon.
3. Map plate extent shown with a filled semi-opaque dark brown polygon.

Unconformity

LOWER CENOZOIC AND MESOZOIC ROCKS

PALEOGENE OVERLAP SEQUENCE

Coaledo Formation (middle Eocene)-divided to show:

Tecu	Upper Member (middle Eocene)
Tecm	Middle Member (middle Eocene)
Ted	Lower Member (middle Eocene)

Tet	Tyee Mountain Member of the Tyee Formation (middle Eocene)
Teu	Umpqua Group (lower Eocene)

Unconformity

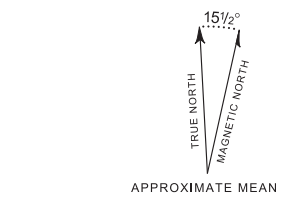
SIXES RIVER TERRANE

Fulmar subterrane

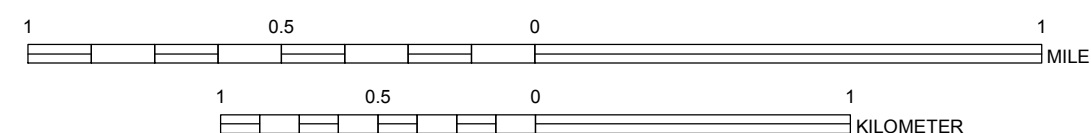
Telm	sandstone of Fivemile Point (lower Eocene)
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Unconformity

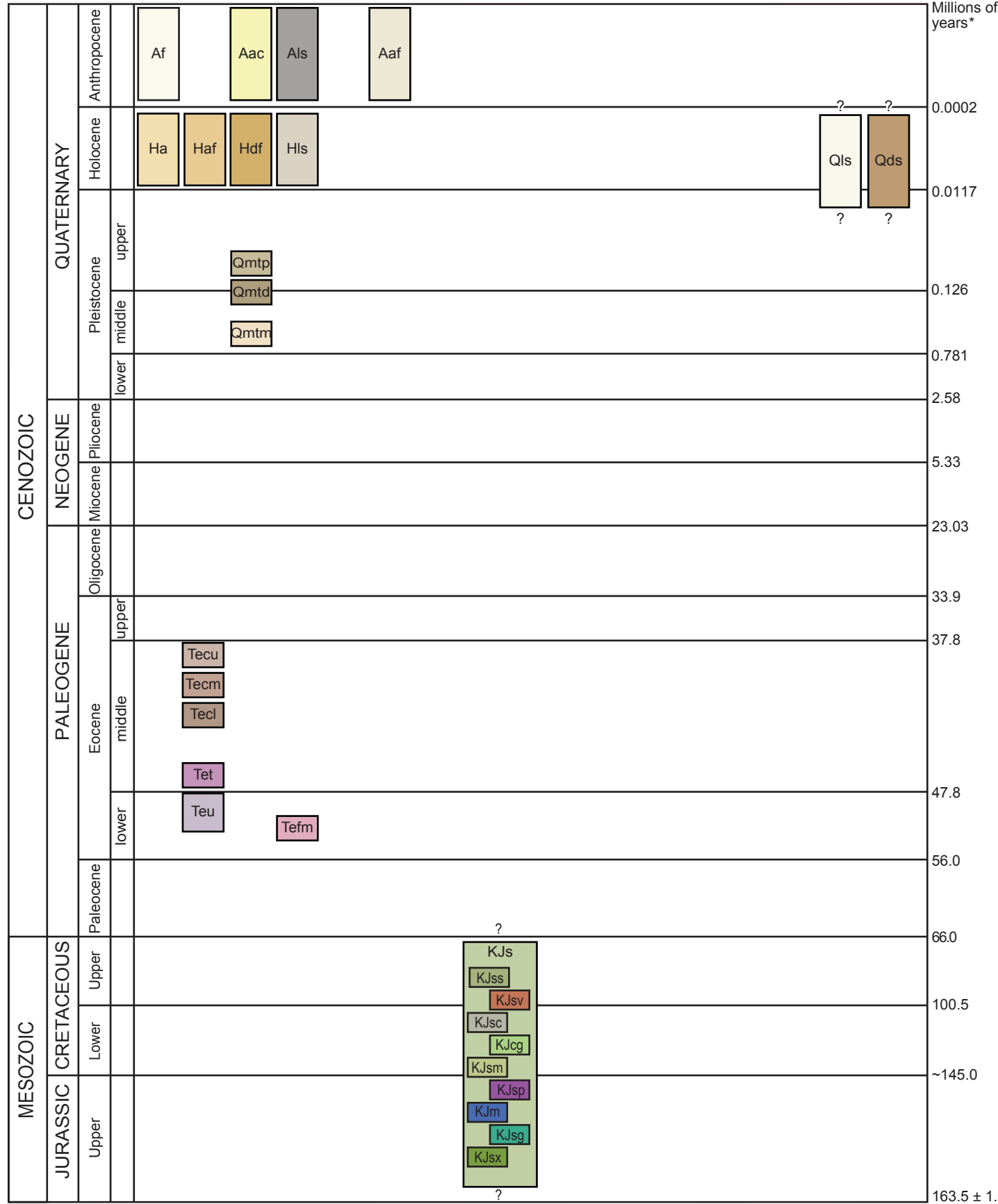
Kjs	mélange of Sixes River (Upper(?) Cretaceous to Jurassic(?))
Ksa	sandstone
Ksv	volcanic and meta-volcanic rock
Ksc	chert
Ksg	conglomerate
Ksm	other metamorphic rock
Ksp	serpentine and meta-serpentine
Km	marble
Kag	garnet schist
Kas	mélange blocks, undivided



SCALE 1:24,000 (1 inch equals 2000 feet)
Contour interval is 50 feet.



TIME-ROCK CHART



*International Chronostratigraphic Chart, International Stratigraphic Commission, 2015/1. Time scale after Gradstein and others (2004), Ogg and others (2008), and Cohen and others (2013). <http://www.stratigraphy.org/index.php/ics-chart-timescale>

Source Data: DOGAMI Lidar Data Quadrangle LDQ-2009-43121-A3-Bill Peak. Geologic data and water features are from Oregon Department of Geology and Mineral Industries (2014). Transportation data are from Coos 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 Foot
Horizontal Datum: NAD 1983 HARN. UTM Coordinates: Zone10N, NAD83.

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

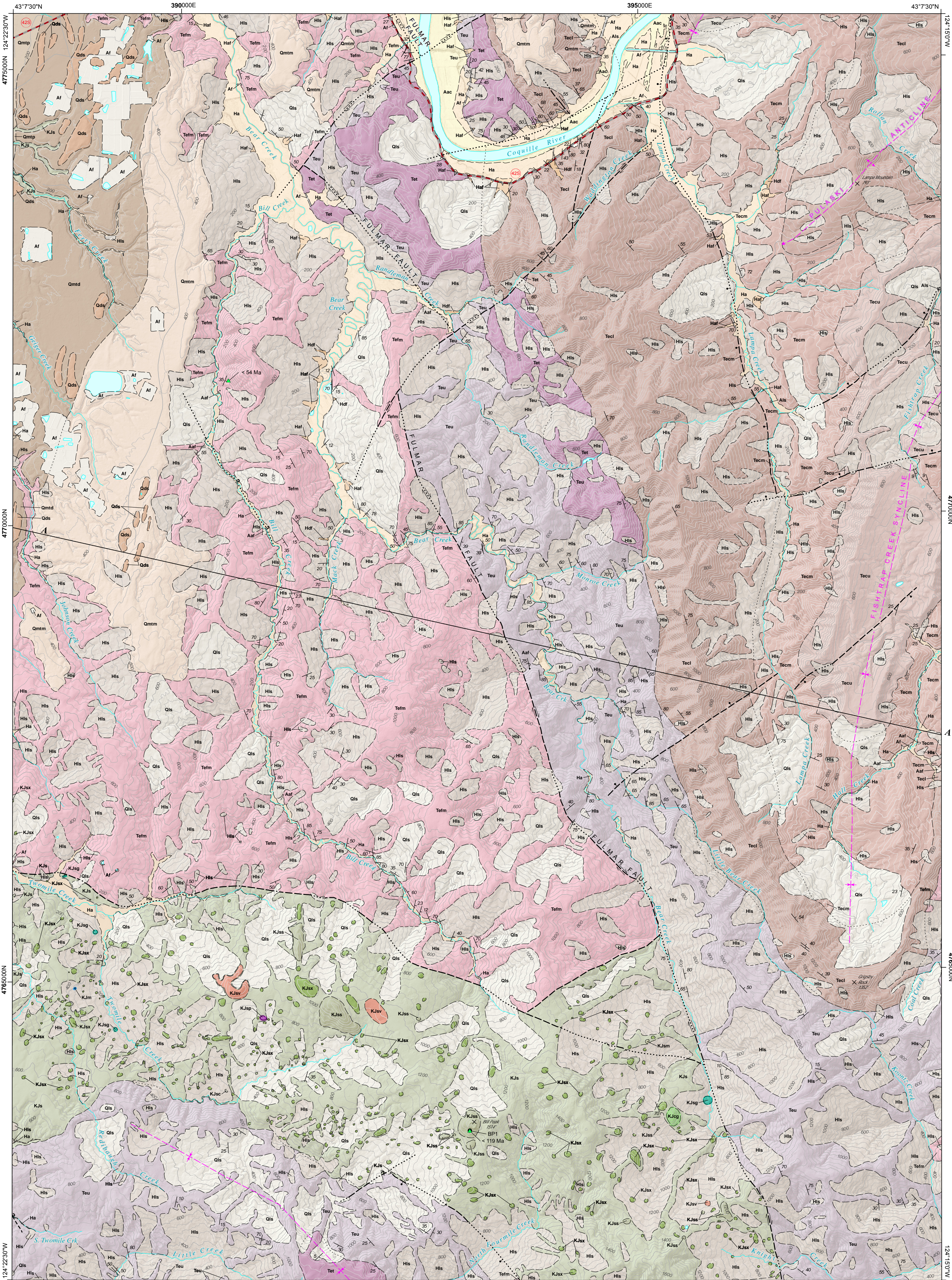
Time-Rock Chart References: Gradstein, F. M., Ogg, J. G., and Smith, A. G., eds., 2004, A geologic time scale 2004: Cambridge, U.K., Cambridge University Press, 589 p.
Ogg, J. G., Ogg, G., and Gradstein, F. M., 2008, The concise geologic time scale: New York, Cambridge University Press, 177 p.
Cohen, R. M., Finney, S. C., Gibbard, P. L., and Fan, J.-X., 2013 (updated 2015), The ICS International Chronostratigraphic Chart: Episodes 36, p. 199-204.

Field Work: Conducted in 2014 and 2015 by Clark A. Niewendorf, DOGAMI

Geology Reviewer: Mark L. Forns

Cartography and Base Map Preparation: John M. Bauer, DOGAMI

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.



EXPLANATION OF SYMBOLS

Waterbody	Lidar-derived elevation	Fault — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.
Stream	Location of whole-rock XRF geochemical analysis sample (see Appendix in pamphlet)	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.
Road	Location of radiometric age in millions of years (Ma), thousands of years (ka), or years before present (yr B.P.). See geodatabase for complete data.	Strike-slip fault, right-lateral offset — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.
State highway	Inclined bedding showing strike and dip	Anticline — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.
Cross section	Overturned bedding showing strike and dip	Syncline — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.
	Vertical bedding showing strike	
Contact — solid line where accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.		

GEOLOGIC CROSS SECTION

Selected Quaternary units not shown in cross section.

