

# Geologic Map of the Cape Arago 7.5' Quadrangle, Coos County, Oregon

2015

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Geologic Map of the Southern Oregon Coast  
Between Bandon, Coquille, and Sunset Bay,  
Coos County, Oregon  
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## 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)
Aa	alluvium (Anthropocene)
Als	landslide deposits (Anthropocene)
Adf	debris fan deposits (Anthropocene)
Abn	beach deposits (Anthropocene)
Ada	foredune 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:

Qmtw	Whiskey Run terrace sediments (north of Floras Creek, upper Pleistocene, ~80 ka)
Qmp	Pioneer terrace sediments (upper Pleistocene, ~105 ka)
Qmtd	Seven Devils terrace sediments (north of Floras Creek, upper to middle Pleistocene, ~125 ka)
Qmm	Metcalf terrace sediments (middle Pleistocene)
Qmta	Arago Peak terrace sediments (middle to lower(?) Pleistocene)

### Unconformity

### LOWER CENOZOIC AND MESOZOIC ROCKS

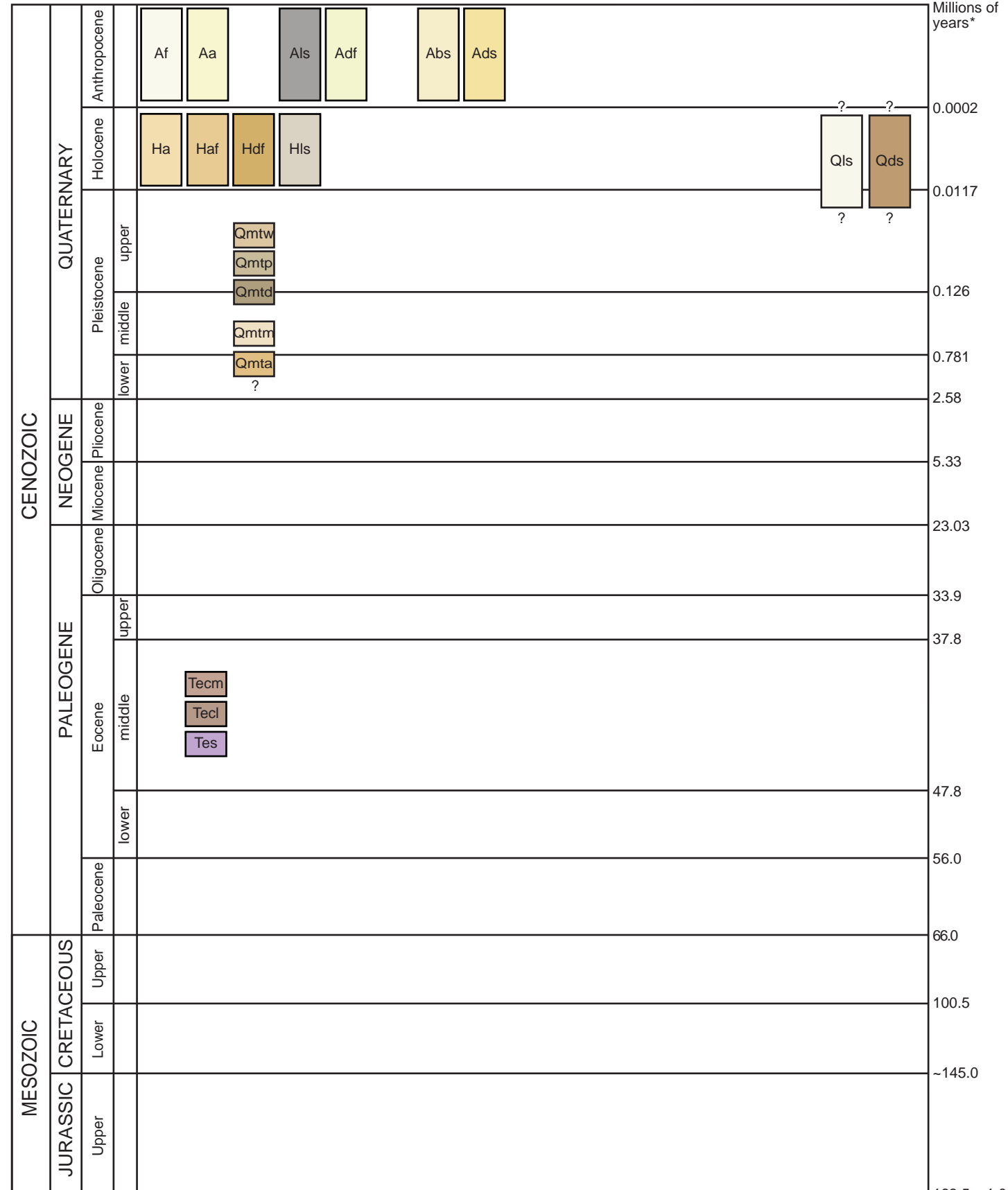
#### PALEOGENE OVERLAP SEQUENCE

Coalede Formation (middle Eocene) divided to show:

Tecm	Middle Member (middle Eocene)
Tecd	Lower Member (middle Eocene)

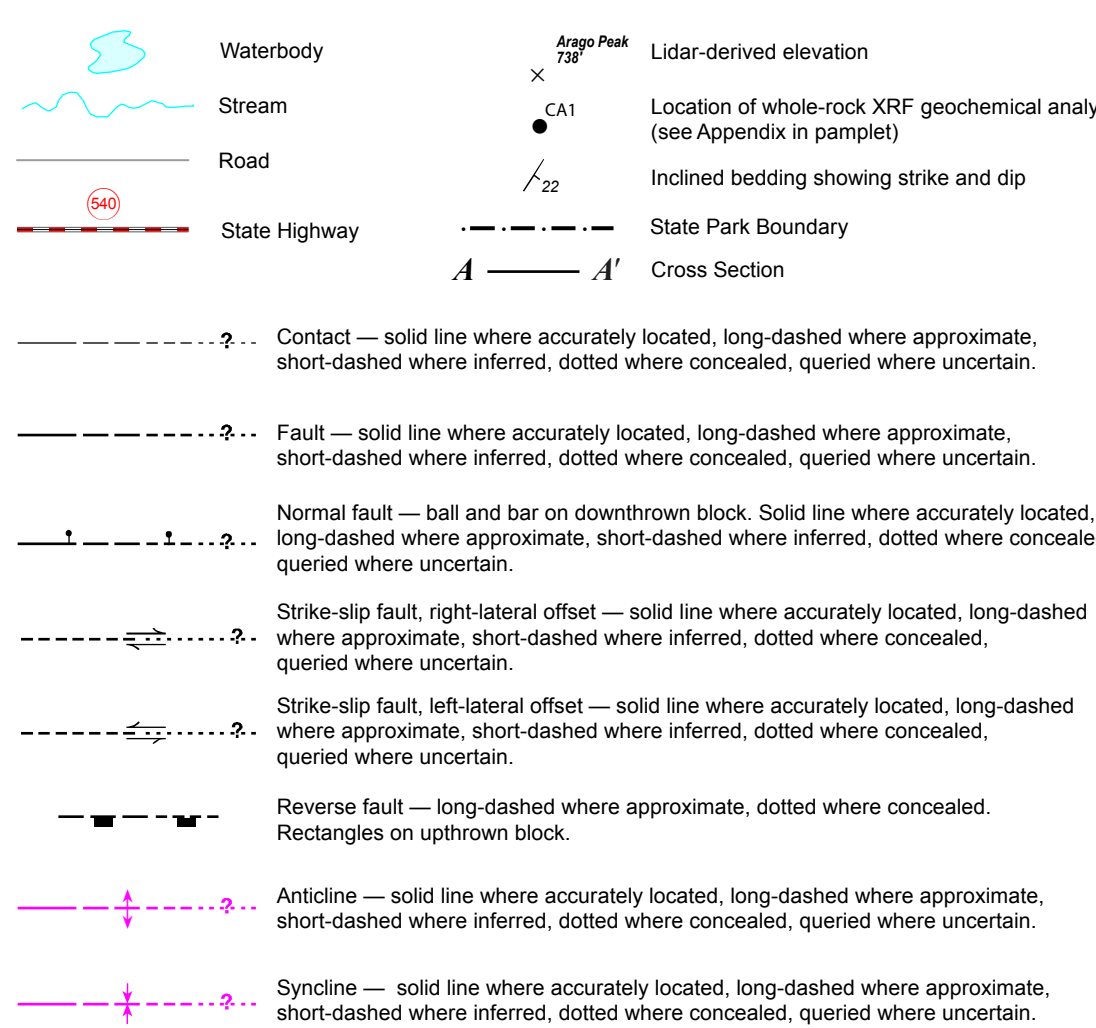
Tes beds at Sacchi Beach (middle Eocene)

### TIME-ROCK CHART



\*International Chronostratigraphic Chart, International Stratigraphic Commission, 2015V1. 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>

## EXPLANATION OF SYMBOLS



Source Data: DOGAMI Lidar Data Quadrangle LDQ-2009-43124-C4-Cape Arago. 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, K. M., Finney, S. C., Gibbard, P. L., and Fan, J.-X., 2013 (updated 2015), The ICS International Chronostratigraphic Chart: Episodes 36, p. 199-204.

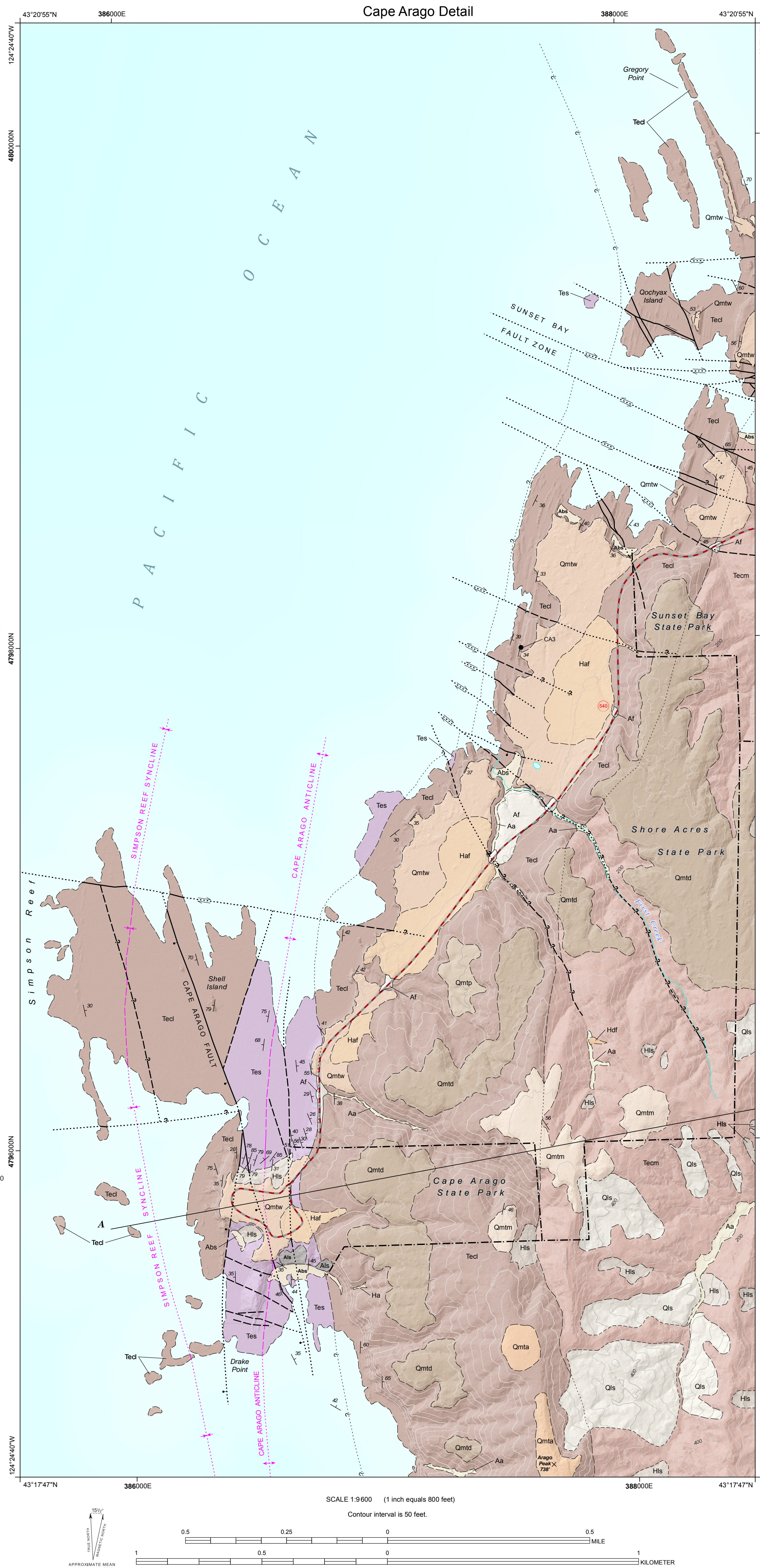
Field Work: Conducted in 2014 and 2015 by Jason D. McLaughry and Heather H. Herinicks, DOGAMI

Geology Reviewers: Mark L. Fens

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.

## Cape Arago Detail

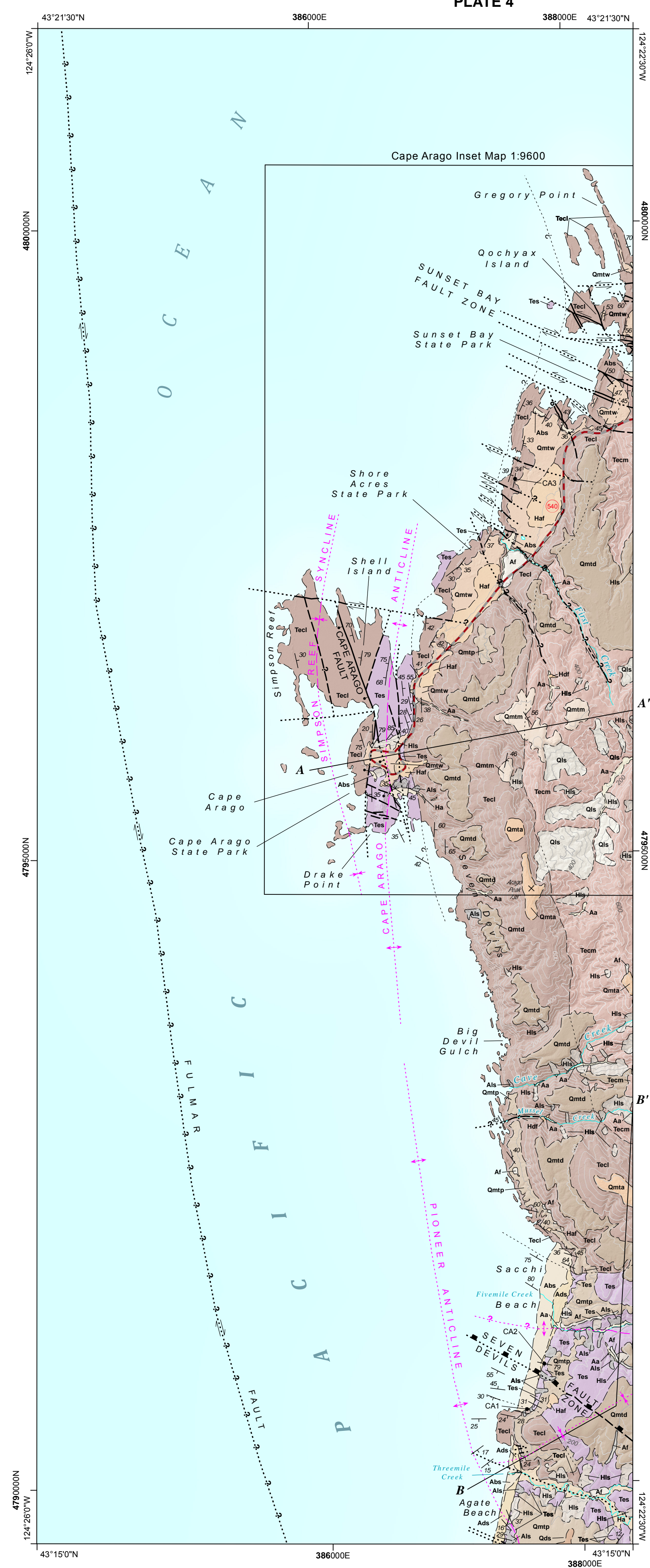


SCALE 1:9600 (1 inch equals 800 feet)

Contour interval is 50 feet.

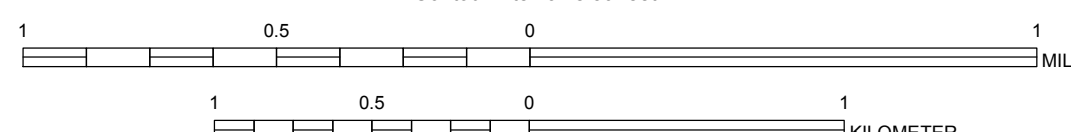


## PLATE 4



SCALE 1:24,000 (1 inch equals 2000 feet)

Contour interval is 50 feet.



## GEOLOGIC CROSS SECTIONS

Selected Quaternary units not shown in cross section.

