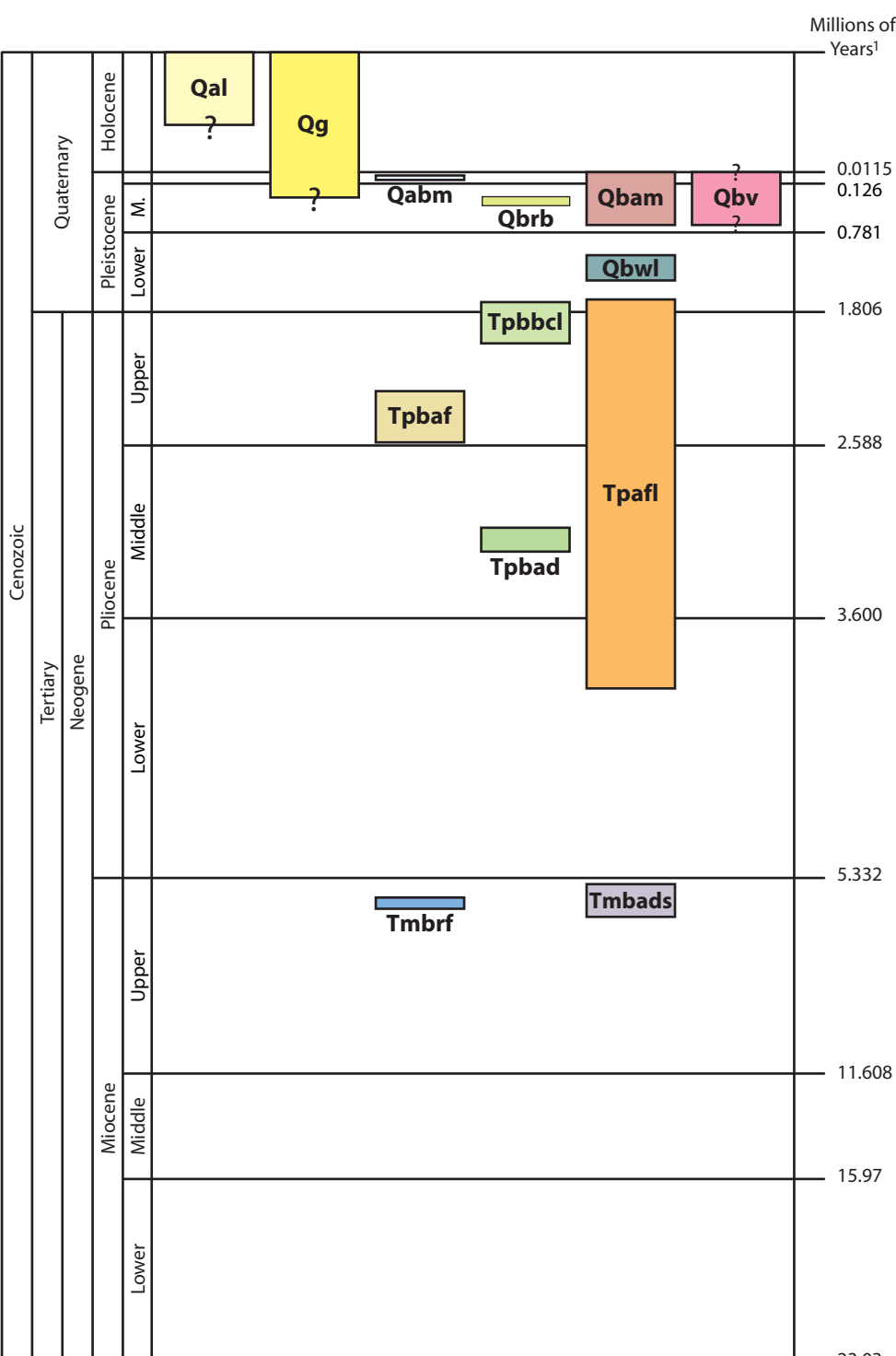


TIME ROCK CHART



1. Data from Gradstein and others (2004).  
Gradstein, F., Ogg, J., and Smith, A. ed. 2004. A Geologic Time Scale 2004. Cambridge, Cambridge University Press, xiv + 589 p. + chart in folder.

MAP UNITS

(A full description of the geologic units is found in the accompanying text.)

Surficial Units

- Qal Alluvium (Holocene)
- Qg Undifferentiated colluvium and alluvium (Pleistocene to Holocene)

Volcanic Units

- Qbv Basaltic/basaltic andesite/andesite vent deposits (Pleistocene)
- Qbml Andesite of Brown Mountain (Upper Pleistocene)
- Qbrb Basalt of Robinson Butte (Middle Pleistocene)
- Qbam Basaltic Andesite of Mount McLoughlin (Middle to Upper Pleistocene)
- Qbwl Basalt of Woodpecker Lake (Lower Pleistocene)
- Tpbbl Basalt of Blue Canyon Lake (Upper Pliocene to Lower Pleistocene)
- Tpbaf Basaltic Andesite of Freye Lake (Upper Pliocene)
- Tpbad Basaltic Andesite of Dry Creek (Middle Pliocene)
- Tpafl Andesite of Fish Lake (Lower Pliocene to Lower Pleistocene)
- Tmbaf Basalt of Rye Flat (Upper Miocene)
- Tmbads Basaltic Andesite of Dogwood Spring (Upper Miocene)

GEOLOGIC MAP SYMBOLS

- Contact -- Approximately located.
- Sample location and map number for specimens with available age dates and chemical analyses -- Consult Table 1 in the attached text.
- Sample location and map number for specimens with available chemical analyses -- Consult Table 1 in the attached text.

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Field Work: 1984, 1991, 1992, 2004, 2006, 2009

NOTES REGARDING THE MAP:

The above map was created in and exported from MapInfo Professional® version 8.0 in the following projection: Universal Transverse Mercator (NAD 27 for US); UTM Zone 10 (NAD 27 for US). The U.S. Geological Survey 7.5 minute Mt. McLoughlin quadrangle, the colored geologic units, the geologic unit boundaries, and the sample location symbols were exported from MapInfo and have since been kept in the same orientation. The exported map image has been uniformly resized using Adobe® Illustrator® CS5 to create a 1:24,000 scale. The colors of the exported map were adjusted using Adobe® Photoshop® CS5 to be consistent with USGS CMYK color standards. The map numbers and geologic unit labels were added to the map in Adobe® Illustrator® CS5. A final pdf version of the map was created using Adobe® Illustrator® CS5. Last edited on 06/14/2011 by IPW.