

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
BUREAU OF LAND SURVEY
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Geologic Map of the Wolf Run and Northern Part of the Friend 7.5' Quadrangles, Wasco County, Oregon

2021

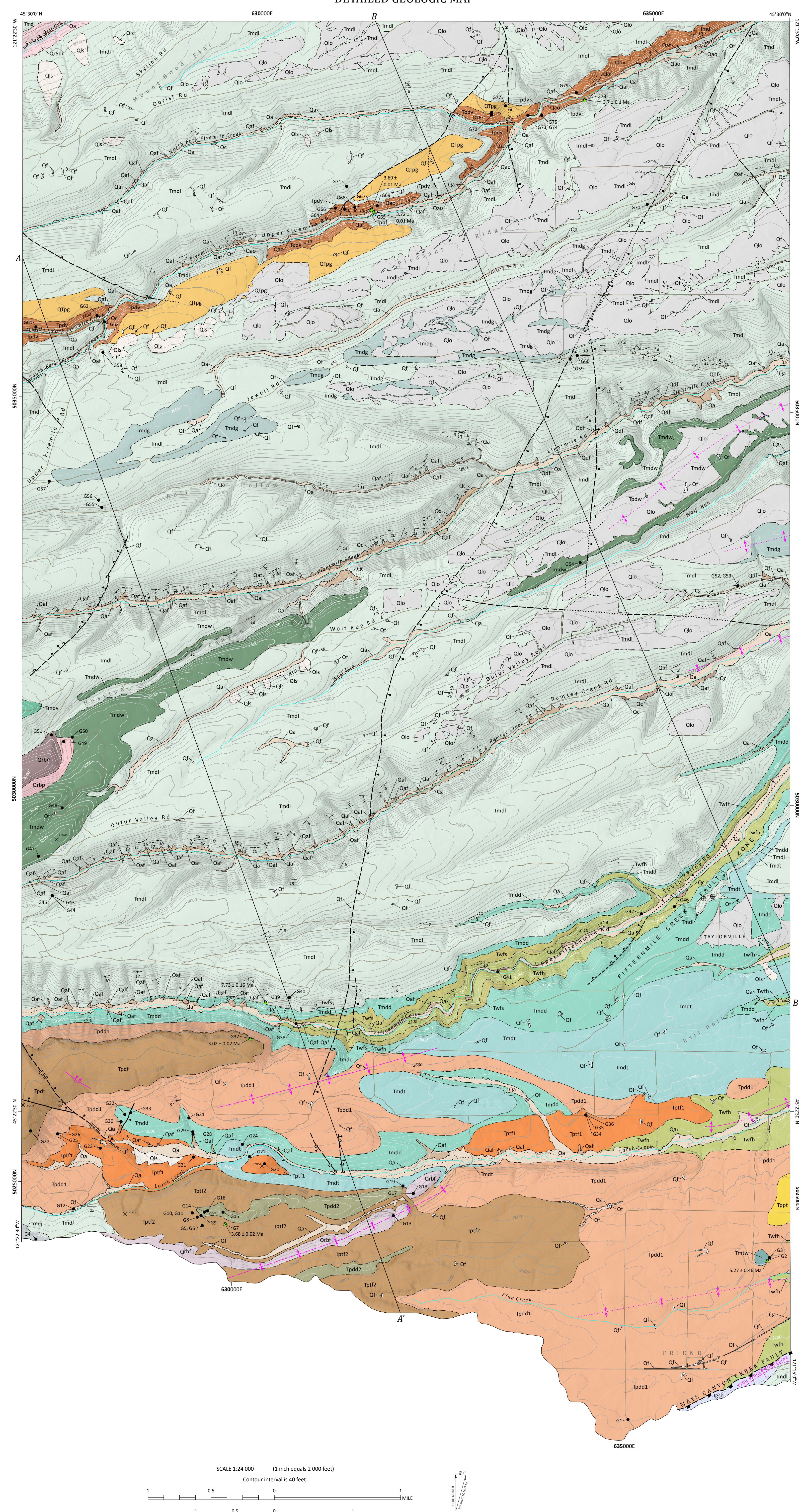
GMS-127

Geologic Map of the Dufur Area, Wasco County, Oregon
by Jason D. McCaughey, Heather H. Herreid, Clark A. Newsom, and Carlie J. M. Azopardi, and Joshua A. Hackett

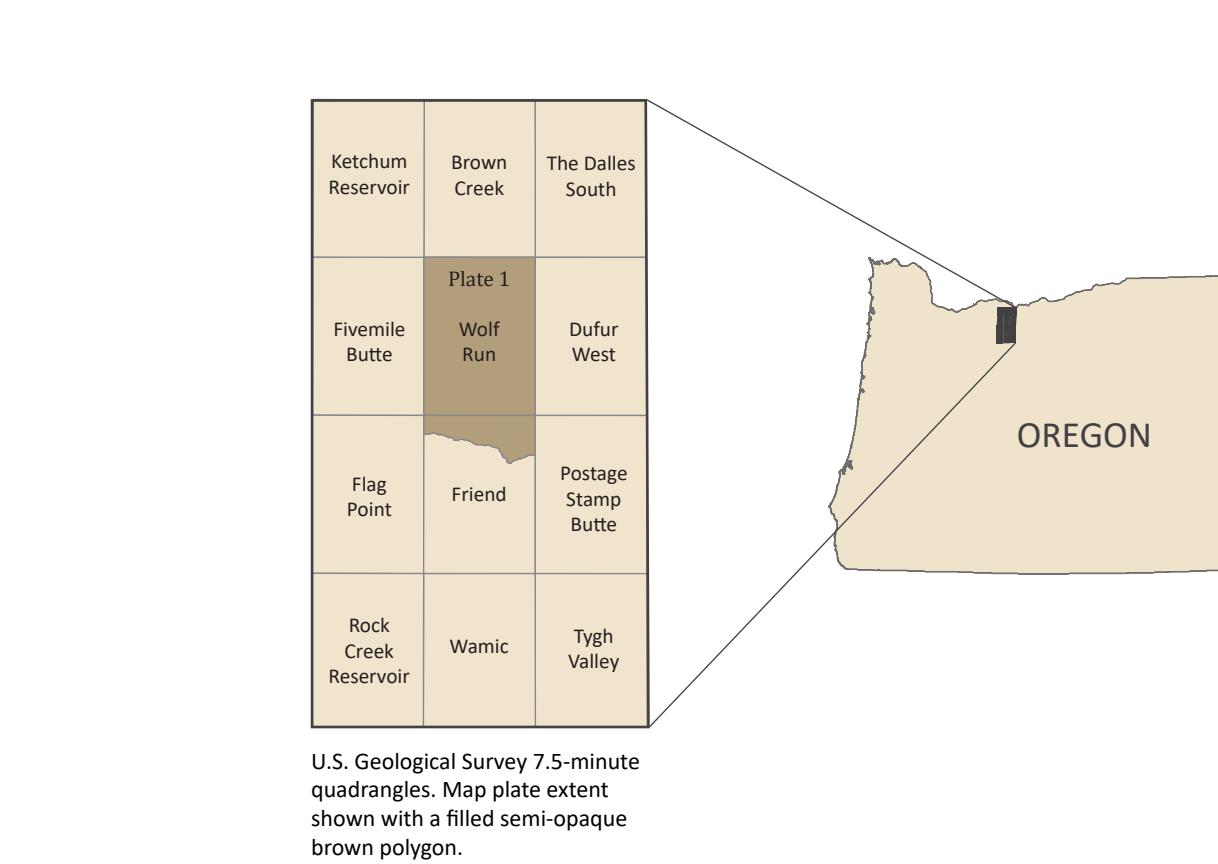
Geologic mapping in the Dufur area was supported through the STATEMAP component of the National Cooperative Geologic Mapping Program under Interagency Agreements DOGAMI/IAA 12102011/04WWD (2010) and DOGAMI/IAA 12102011/14WWD (IA 1 to 047 2016).

Additional funds were provided by the State of Oregon through the Oregon Department of Geology and Mineral Industries.

DETAILED GEOLOGIC MAP



EXPLANATION OF SYMBOLS



Source: Oregon State Planning Division 2010. 0.5-mile scale base map. Digital version used for Friend (451211 C3) and Wolf Run (451211 F3) quadrangles. Water features from USGS High Resolution Digital Elevation Model (DEM) Version 2.0 (2009) and National Hydrography System (NAMS) (2017). Road feature from Oregon Department of Transportation (ODOT) (2017).

Projection: Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Accuracy: 1.00 ft, Vertical Accuracy: 1.00 ft, Datum: NAD 1983 HARN.

Software: ArcGIS 10.2.2 and ArcScene 10.2.2. Added Illustrations® 2019 v2.1.1.

Field Work: Field work conducted by Clark A. Newsom and Jason D. McCaughey, with assistance from Heather H. Herreid in 2015.

References: Golombok, F., Ogilvie, S. C., Gilford, P. L., and Fan, J.-X., 2013. The ICS International Chronostratigraphic Chart, Episode 30, 36, p. 199–204.

Grahamson, F. M., Ogilvie, S. C., and Smith, A. G., eds., 2004. A geologic time scale: Cambridge, U.K., Cambridge University Press, 594 p.

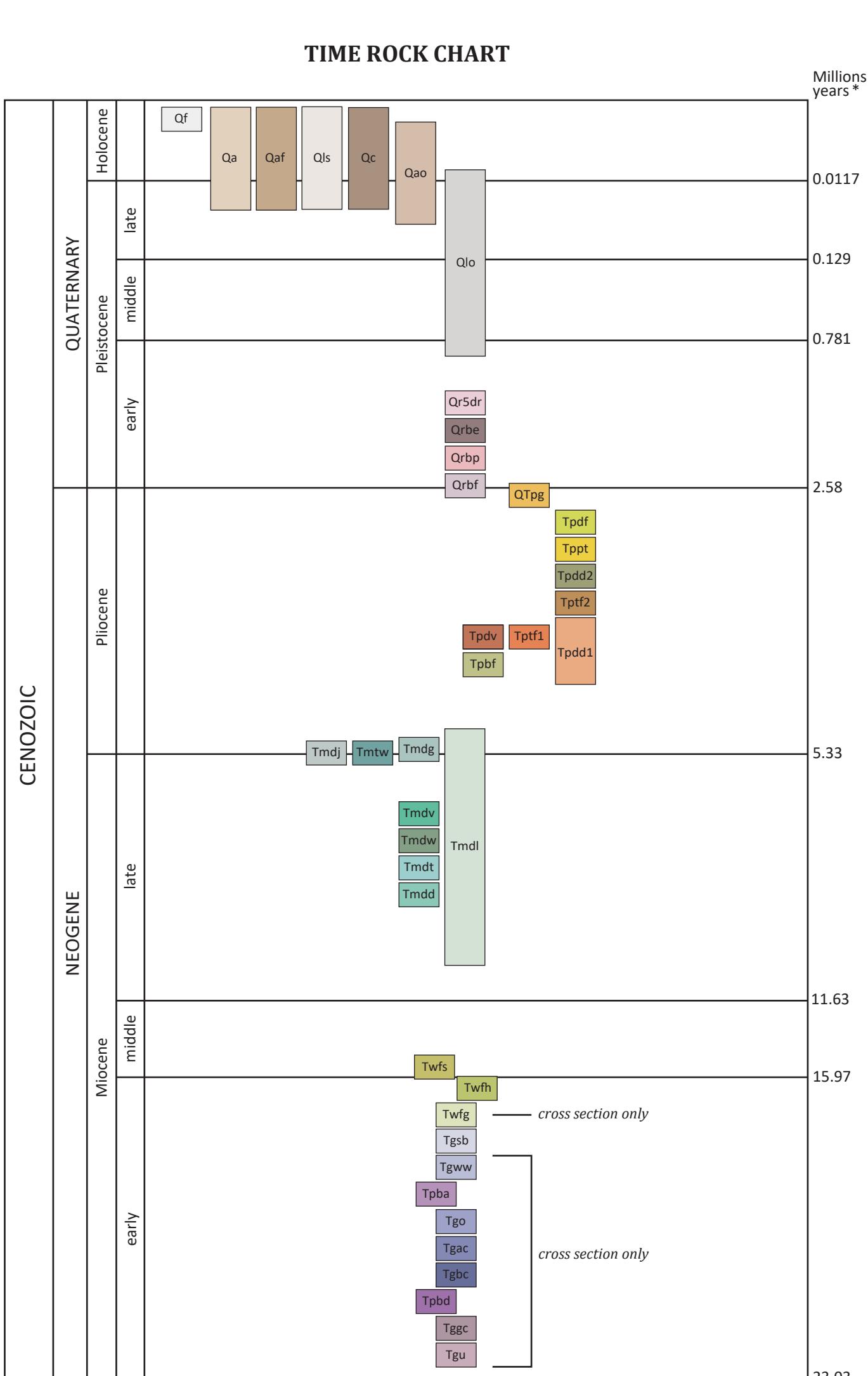
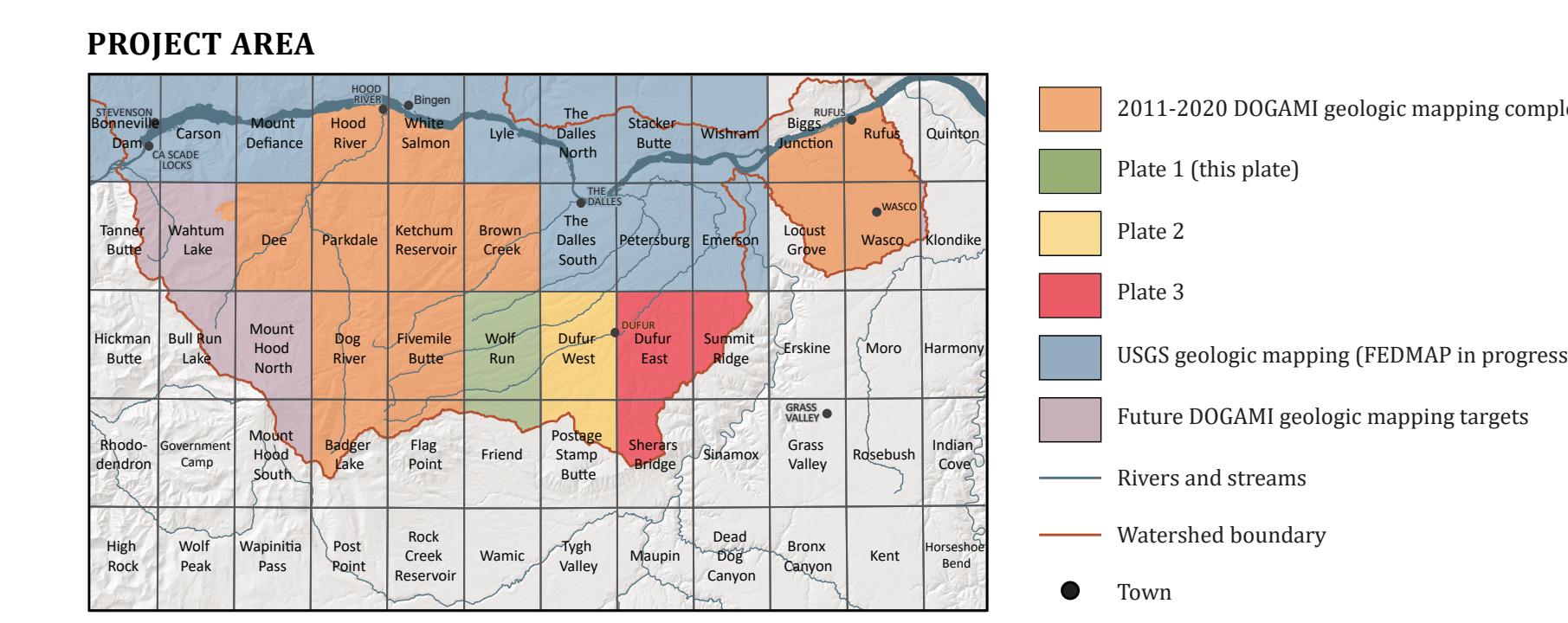
Ogilvie, S. C., and Grahamson, F. M., 2008. The concise geologic time scale: New York, New York, Cambridge University Press, 196 p.

Geologic Reviewer: Geologic Reviewers: Jim O'Connor, USGS; Charles Casner, USGS; Mark Firth, DOGAMI; Robert A. Houston, DOGAMI; Nancy C. Gibson, DOGAMI; and Christina A. Appleby, DOGAMI.

Digital Cartography: Jon J. Freccia.

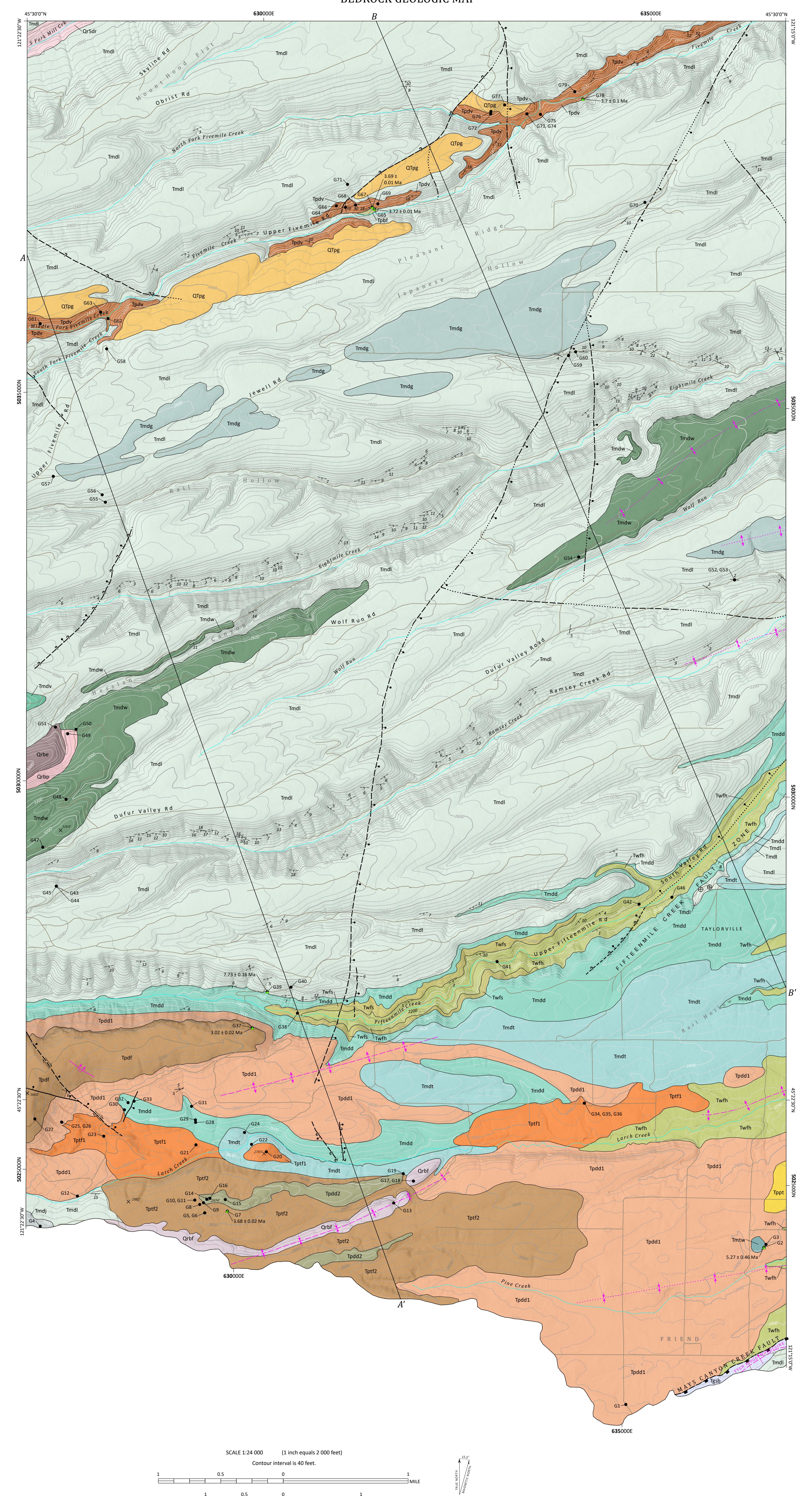
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*The geologic time scale used in the 2020 (2020/01) version of the International Stratigraphic Commission on chronostratigraphic chart (<http://stratigraphy.org/chart>) revised from Grahamson and others (2004), Ogilvie and others (2008), and Gehrels and others (2013).

BEDROCK GEOLOGIC MAP



GEOLOGIC CROSS SECTIONS

