

# Geologic Map of the Charleston Quadrangle, Coos County, Oregon

1995

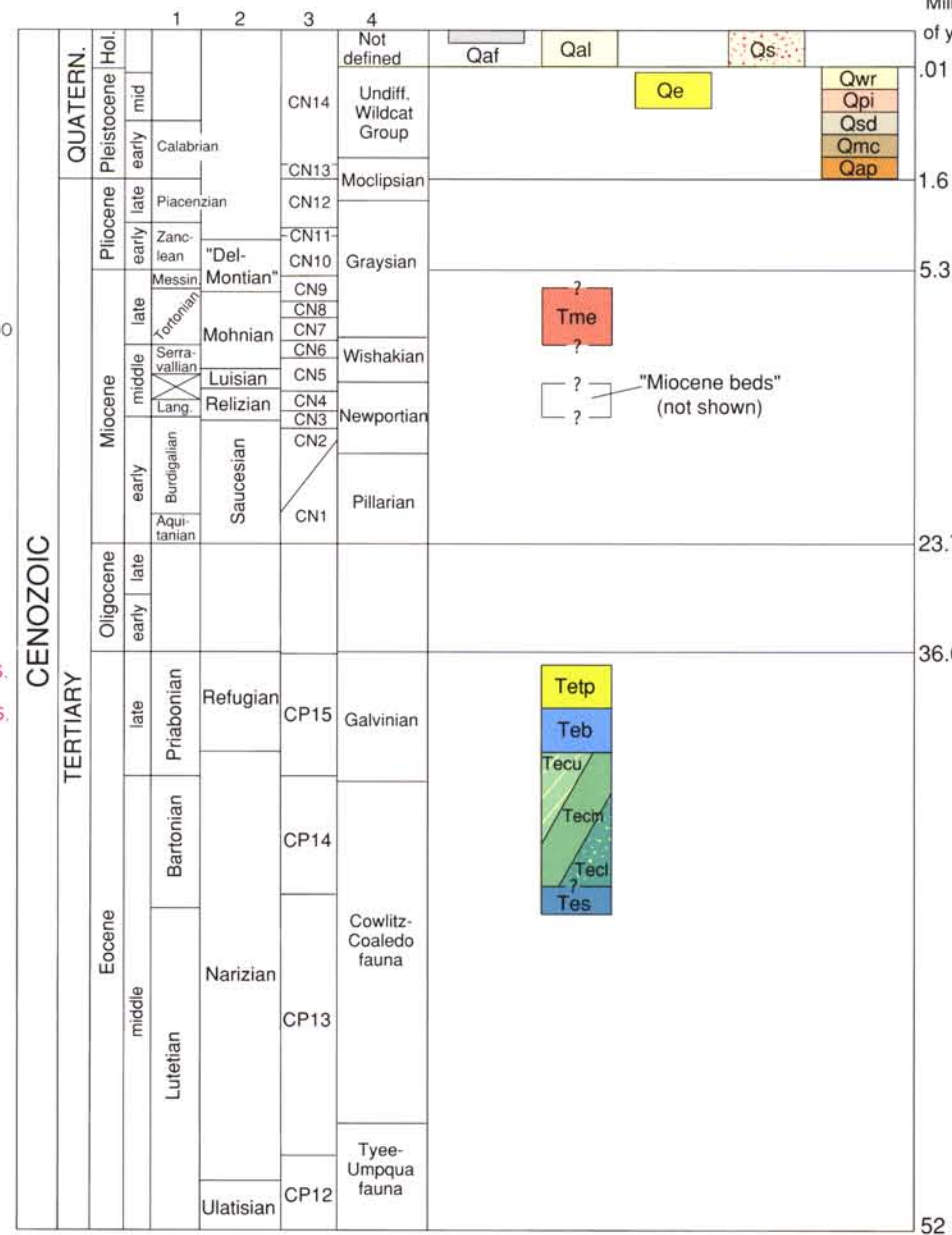
GMS-94

Geologic Map of the Charleston Quadrangle, Coos County, Oregon

By Madin and others

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## TIME ROCK CHART



1 Standard ages  
2 Benthic foraminiferal zones from Mallory (1959) and Almgren (1988)  
3 Calcareous nanoplankton zones from Berggren and others (1985) and Bukry and Snavely (1988)  
4 Molluscan faunal stages from Armentrout and others (1985)

## EXPLANATION OF MAP UNITS

- (see accompanying text for complete geologic explanation)
- Quaternary deposits**
- Qal Artificial fill (recent)
  - Qs Quaternary sand deposits (Holocene)
  - Qal Quaternary alluvium and estuarine sediments (Holocene)
  - Qe Quaternary estuarine deposits (Pleistocene)
- UNCONFORMITY**
- Quaternary marine terraces (Pleistocene)
  - Whiskey Run marine terrace (Pleistocene)
  - Pioneer marine terrace (Pleistocene)
  - Seven Devils marine terrace (Pleistocene)
  - Metcalf marine terrace (Pleistocene)
  - Arago Peak marine terrace (Pleistocene)
- ANGULAR UNCONFORMITY**
- Tertiary sedimentary rocks**
- Time Empire Formation (upper Miocene; Grayson)
  - "Miocene beds" (Tarheel formation of Armentrout (1967)) (middle to lower Miocene; Newportian)
- ANGULAR UNCONFORMITY**
- Telp Tunnel Point Sandstone (upper Eocene; Galvinian)
  - Teb Bastendorff Shale (upper Eocene; Narizian, Refugian)
  - Coaledo Formation (upper to middle Eocene; Narizian)
  - Upper Member of the Coaledo Formation (upper to middle Eocene; Narizian)
  - Middle Member of the Coaledo Formation (upper to middle Eocene; Narizian)
  - Lower Member of the Coaledo Formation (upper to middle Eocene; Narizian)
  - Beds at Sacchi Beach (middle Eocene; Narizian)

## MAP SYMBOLS

- Contact--approximately located
- Late Quaternary fault--dashed where inferred; dotted where concealed; queried where uncertain; ball and bar on downthrown side
- Late Quaternary thrust fault--sawtooth on upper plate; dashed where inferred; dotted where concealed; queried where uncertain
- Fault--dashed where inferred; dotted where concealed; queried where uncertain; ball and bar on downthrown side
- Anticline axis--dotted where concealed; queried where uncertain
- Syncline axis--dotted where concealed; queried where uncertain
- Strike and dip of bedding
- Strike and dip of beds from Allen and Baldwin (1944)--approximately located
- Strike of vertical beds
- Horizontal bed
- Fault exploration trench
- Dry hole--abandoned exploration hole

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Field work conducted in 1988 by McNelly and Kelsey and in 1991-1993 by Madin

Cartography by Paul E. Staub

The geologic information on this map is available in digital formats

## GEOLOGIC CROSS SECTIONS

Dashed lines indicate approximate bedding; wavy lines are major unconformities. Unconformities at the base of alluvium and marine terraces shown as solid lines.

