

# Geologic Map of Redwood National and State Parks

California

## Southern Portion

**Infrastructure**

- Point of Interest
- City
- Primary Road
- Secondary Road
- Unpaved Road

**Folds**

- Anticline: solid where known or certain, dashed where approximate, dotted where concealed
- Syncline: solid where known or certain, dashed where approximate, dotted where concealed

**Geologic Line Features**

- Lineament: solid where known or certain, dashed where approximate

**Faults**

- Thrust fault: Solid where known or certain, dashed where approximate, dotted where concealed, dashed or dotted with a question mark where queried, arrows indicate up-thrown block of fault
- Normal fault: Solid where known or certain, dashed where approximate, dotted where concealed, dashed or dotted with a question mark where queried, bar and ball indicates down-thrown block of fault
- Unknown offset/displacement: Solid where known or certain, dashed where approximate, dotted where concealed, dashed or dotted with a question mark where queried

**Geologic Contacts**

- Solid where known or certain, dashed where approximate, dotted where concealed, dashed or dotted with a question mark where queried, vertical lines where gradational

**Geologic Units**

- Surface water including rivers, lakes, and Pacific Ocean
- Artificial fill (historical)
- Beach deposits (Holocene)
- Stream channel deposit, younger (latest Holocene)
- Stream channel deposit (Holocene)
- Stream channel deposit, 5 to 20 years (Holocene)
- Stream channel deposit, 50 to 100 years (Holocene)
- Dune sand (Holocene)
- Young alluvial deposits, undifferentiated (Holocene)
- Young alluvial fan deposits (Holocene)
- Young stream terrace deposits (Holocene)
- Estuarine deposits (Holocene)
- Alluvial fan deposits (Pleistocene to Holocene)
- Alluvial deposits, undifferentiated (Holocene and Pleistocene)
- Lacustrine deposits (Holocene and Pleistocene)
- Stream terrace deposits (Pleistocene to early Holocene)
- Landslide deposits (Pleistocene to historical)
- Undifferentiated river terrace deposits (Holocene and Pleistocene)
- Undifferentiated continental and marine deposits (Holocene and Pleistocene)
- Battery Formation (late Pleistocene)

**Marine terrace deposits (Pleistocene)**

- Marine terrace deposits (Pleistocene)
- Patrick's Point terrace (Pleistocene)
- Savage Creek terrace and McKinleyville terrace (Pleistocene)
- Westhaven terrace (Pleistocene)
- Sky Horse terrace (Pleistocene)
- A-Line terrace (Pleistocene)
- Maple Stump terrace (Pleistocene)

**Terrace gravels of Surpur Creek (Pleistocene)**

- Undifferentiated marine and nonmarine overlap deposits (late Pliocene? to Pleistocene)

**Prairie Creek Formation (late Pliocene to early Pleistocene)**

- Undifferentiated continental and marine deposits (Pleistocene and Pliocene)

**Wimer Formation (late Miocene)**

- St. George Formation (late Miocene)
- Coyote Peak Diatreme (Tertiary)

**Franciscan Complex, Central Belt**

- Mélange of the Central Belt (mid to Late Cretaceous and Early Jurassic)
- Mélange of the Central Belt, greenstone block (mid to Late Cretaceous and Early Jurassic)
- Sandstone and Mélange unit of Snow Camp Mountain (Cretaceous and Jurassic)

**Franciscan Complex, Eastern Belt**

- Metagraywacke (Cretaceous and Jurassic)
- Broken formation (Early Cretaceous and Late Jurassic)
- Mélange unit of Crescent City area (Cretaceous and Jurassic)
- Mélange unit of Crescent City area, greenstone (Cretaceous and Jurassic)
- Mélange unit of Crescent City area, chert (Cretaceous and Jurassic)
- Mélange unit of Crescent City area, metagraywacke (Cretaceous and Jurassic)
- Mélange unit of Crescent City area, undifferentiated rock mass (Cretaceous and Jurassic)

**South Fork Mountain Schist (Cretaceous and Jurassic)**

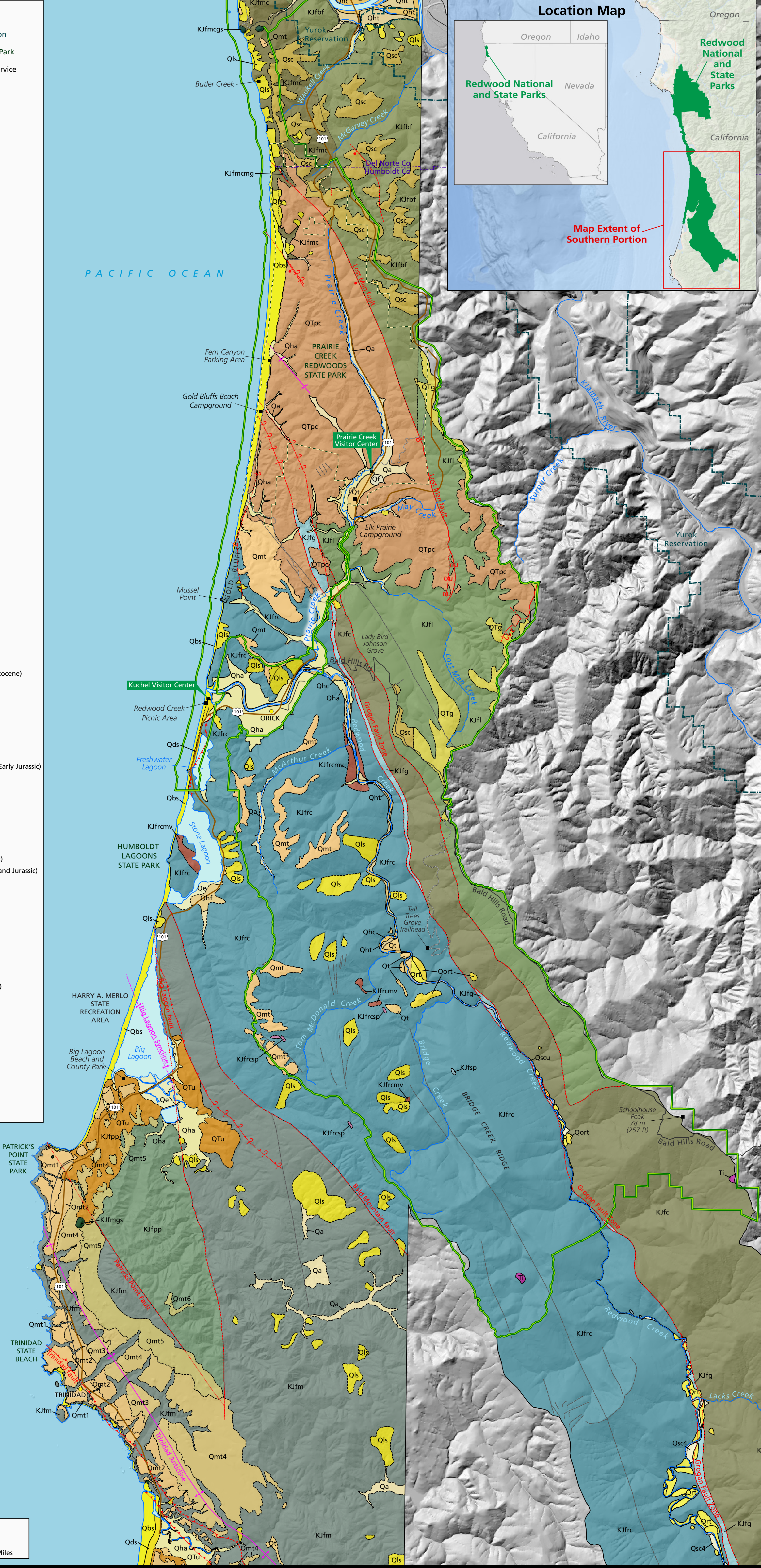
- Serpentinite (Cretaceous and Jurassic)

**Franciscan units of Hardin and others (1982)**

- Coherent unit of Lacks Creek (Cretaceous and Jurassic)
- Incoherent unit of Coyote Creek (Cretaceous and Jurassic)
- Transitional rocks of the Grogan Fault Zone (Cretaceous and Jurassic)
- Redwood Creek schist (Early Cretaceous and Late Jurassic)
- Redwood Creek schist, metatuff (Early Cretaceous and Late Jurassic)
- Redwood Creek schist, serpentinite (Early Cretaceous and Late Jurassic)
- Patrick's Point unit of Aalto and others (1981) (Early Cretaceous and Late Jurassic)

**Josephine ophiolite of Harper (1980)**

- Dike complex (Late Jurassic)
- Gabbro (Late Jurassic)
- Cumulate ultramafic rocks (Late Jurassic)
- Peridotite (Late Jurassic)
- Sheared serpentinite (Jurassic)
- Serpentinite matrix mélange (Jurassic)
- Metasedimentary mélange blocks (Jurassic)
- Greenstone mélange blocks (Jurassic)
- Granitic rock mélange blocks (Jurassic)
- Klamath Mountain rocks, undifferentiated (Jurassic)



This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations.

**Source Maps:**

Delattre, M., and A. Rosinski. 2012. Preliminary geologic map of the onshore portions of the Crescent City and Orick 30' x 60' quadrangles, California (scale 1:100,000). California Geological Survey, Sacramento, California.

Dell'Osso, D. R., J. N. Falls, and D. J. McGuire. 2002. Geologic and geomorphic features related to landsliding, Redwood Creek watershed, Humboldt County, California (scale 1:24,000). Plate 1 (includes 3 sheets: north, central, and south) in Watershed Mapping Series, Map Set 6. California Geological Survey, Sacramento, California.

**Source Scales:**

1:100,000. According to US National Map accuracy standards, features are within 50 m (166 ft) of their true location.

1:24,000. According to US National Map accuracy standards, features are within 12 m (40 ft) of their true location.

**Poster Layout:** Sarah Lowe & Thom Curdts (Colorado State University)

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All Geologic Resources Inventory geologic map data and publications are available at <http://go.nps.gov/gripubs>.

