

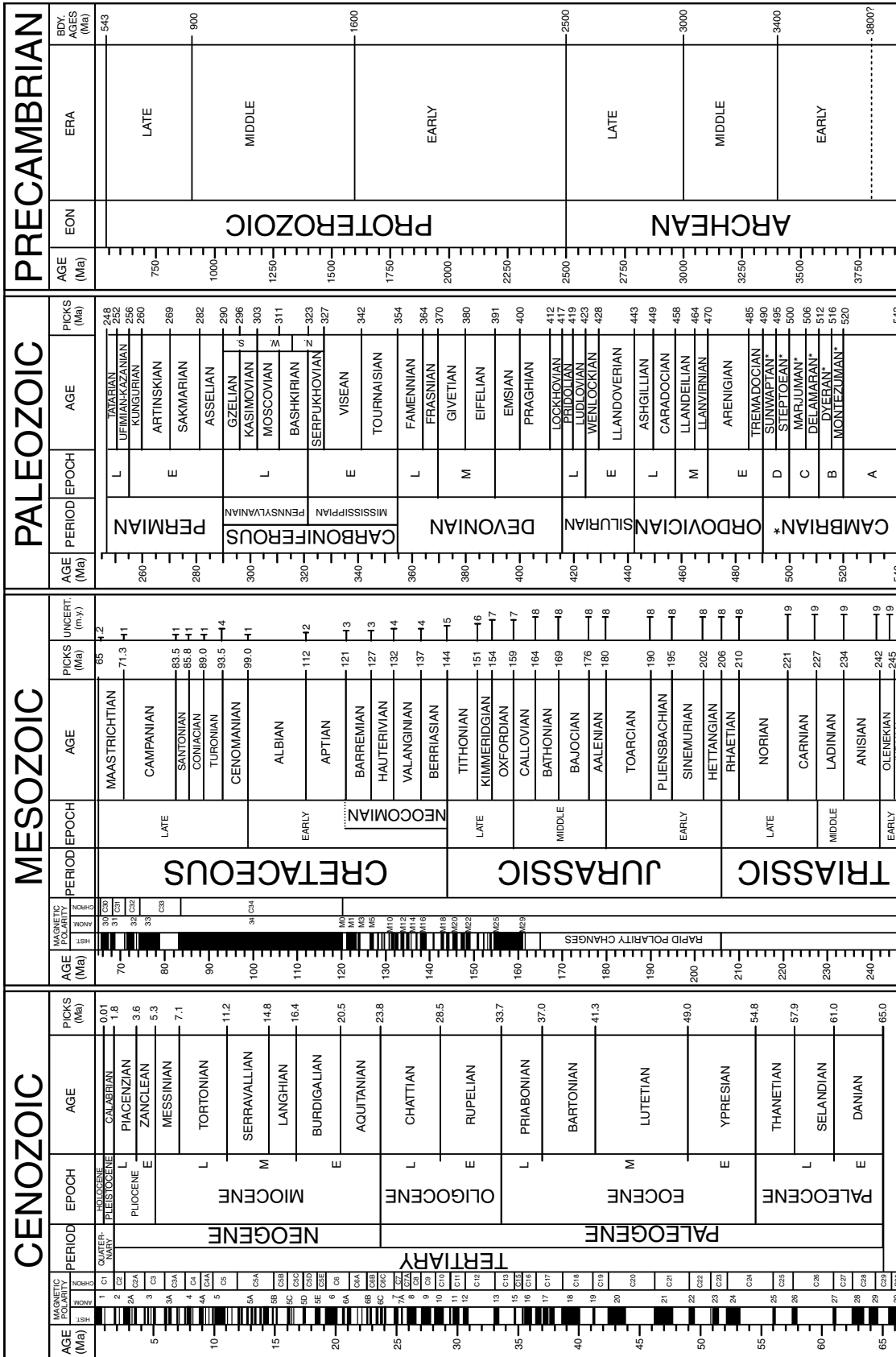
PALEONTOLOGY

Geological Time Scale

Map of fossil finds in Southeast Alaska

Top 12 fossils of Southeast Alaska

Geological Time Scale



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*International ages have not been established. These are regional (Laurentian) only. Boundary Picks were based on dating techniques and fossil records as of 1999. Paleomagnetic attributions have errors. Please ignore the paleomagnetic scale.

Sources for nomenclature and ages: Primarily from Gradstein, F., and Ogg, J., 1996, *Episodes*, v. 19, nos. 1 & 2; Gradstein, F., et al., 1995, *SEPM Special Pub. 54*, p. 95-128; Berggren, W. A., et al., 1995, *SEPM Special Pub. 54*, p. 129-212; Cambrian and basal Ordovician ages adapted from Landing, E., 1998, *Canadian Journal of Earth Sciences*, v. 35, p. 329-338; and Davidek, K., et al., 1998, *Geological Magazine*, v. 135, p. 305-309. Cambrian age names from Palmer, A. R., 1998, *Canadian Journal of Earth Sciences*, v. 35, p. 323-328.

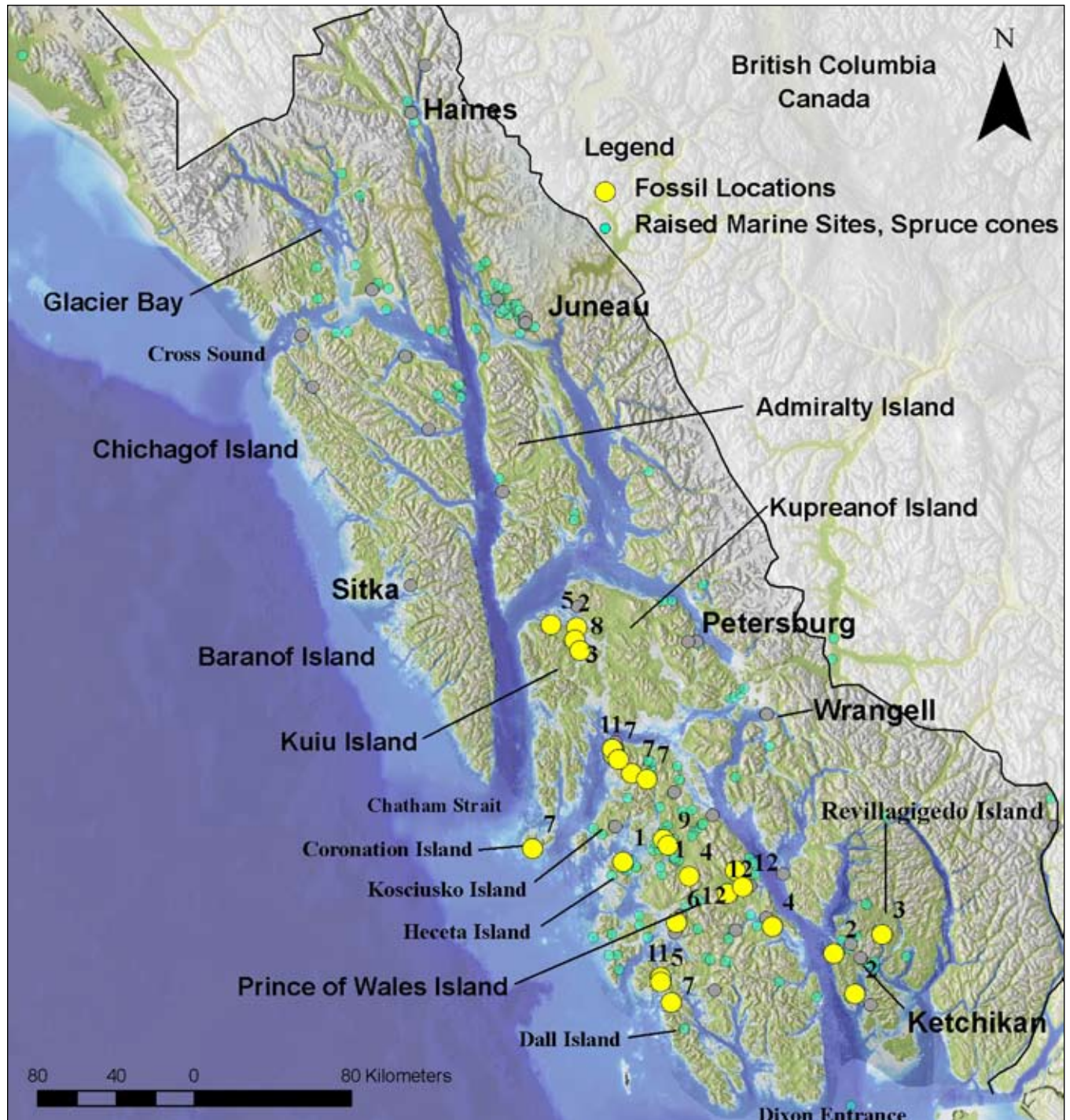


GEOLOGICAL SOCIETY
OF AMERICA

TOP 12 fossils of Tongass National Forest

MAP OF IMPORTANT FOSSIL FINDS IN THE REGION

Numbered circles on this map coordinate with fossils on pages 120-131 and offer a general guide to the fossils' locations. The geological time scale on page 118 helps students to understand the chronological story of the fossils.



TOP 12 Fossils of Tongass National Forest

1 BIG BRACHIOPOD

Kirkidium alaskensis

Upper Silurian Period

419 million to 423 million years ago

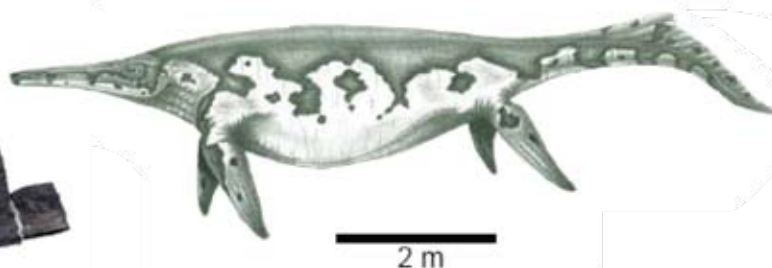
Found in Heceta limestone on Prince of Wales Island and surrounding islands



TOP 12 Fossils of Tongass National Forest

2 AN ICHTHYOSAUR LIKE NO OTHER

Shonisaurus
Triassic Period
220 million years ago
Found on Keku Inlet



TOP 12 Fossils of Tongass National Forest

3 AMMONITES

Triassic Period

Found along George Inlet on Revillagigedo Island
and on Keku Inlet



TOP 12 Fossils of Tongass National Forest

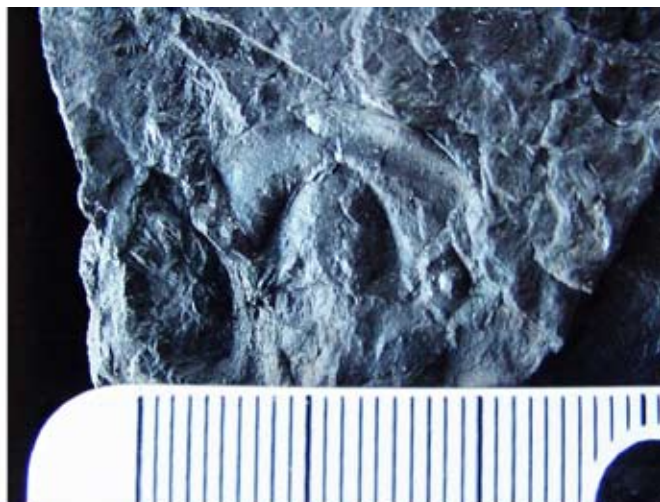
4 TERRIFIC TRILOBITES

Trilobite Prygdium and Glabella

Middle to Upper Devonian Period

354 million to 400 million years ago

Kasaan and other sites on Prince of Wales Island



TOP 12 Fossils of Tongass National Forest

5 BRACHIOPOD BAS RELIEF

Permian Period
248 million to 290 million years ago
Found on Saginaw Bay, Kuiu Island and
Suemez Island



TOP 12 Fossils of Tongass National Forest

6 GIANT CRINOIDS

Mississippian Period
329 million to 354 million years ago
Found near Klawock on Prince of Wales Island



TOP 12 Fossils of Tongass National Forest

7 GIANT BROWN BEAR

Ursus arctos

Pleistocene to Holocene

More than 57,000 to 7,205 years old

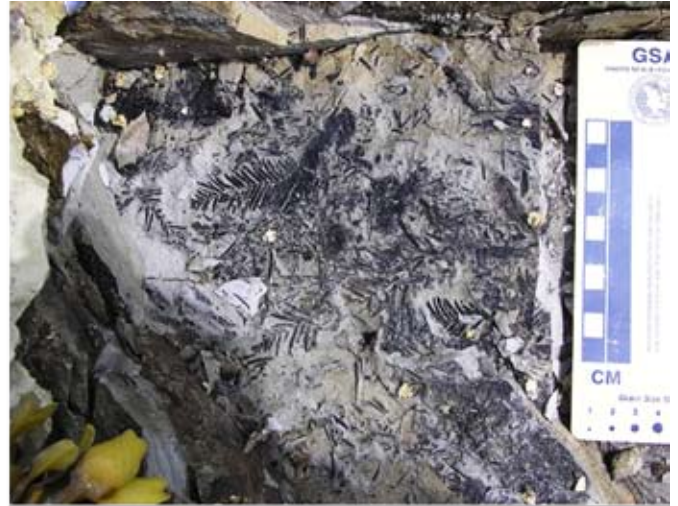
From caves on Prince of Wales Island and surrounding islands



TOP 12 Fossils of Tongass National Forest

8 METASEQUOIA

Dawn Sequoia leaves
Miocene and Oligocene Periods
21 million to 25 million years ago
Found at Port Camden on Kuiu Island



TOP 12 Fossils of Tongass National Forest

9 SNEAKY SNAILS

Trochonema naukatineman, subgen. *karenpetersenae*
Upper Silurian Period
Found in Heceta limestone near Naukati on northwest
Prince of Wales Island



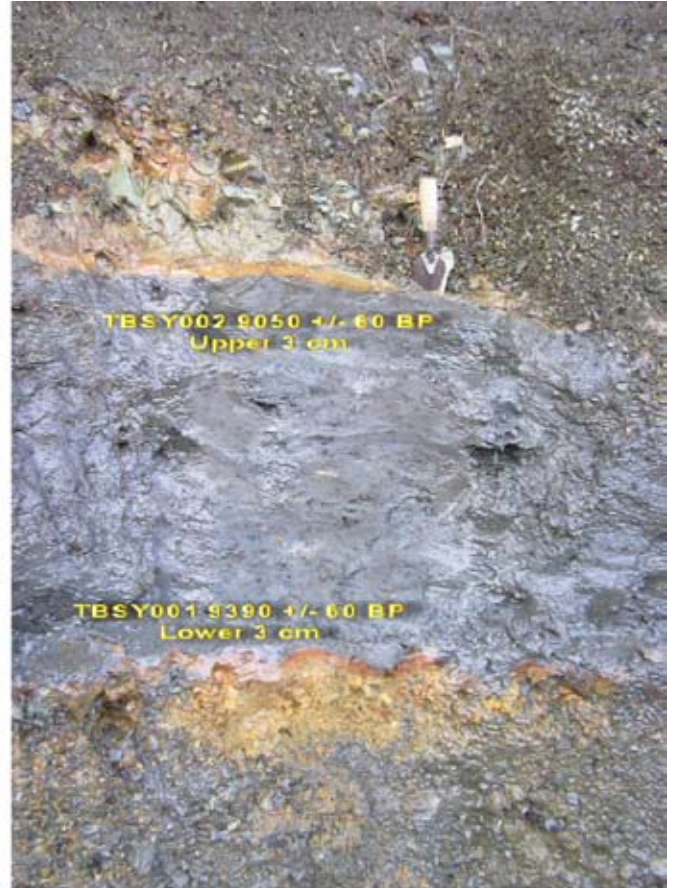
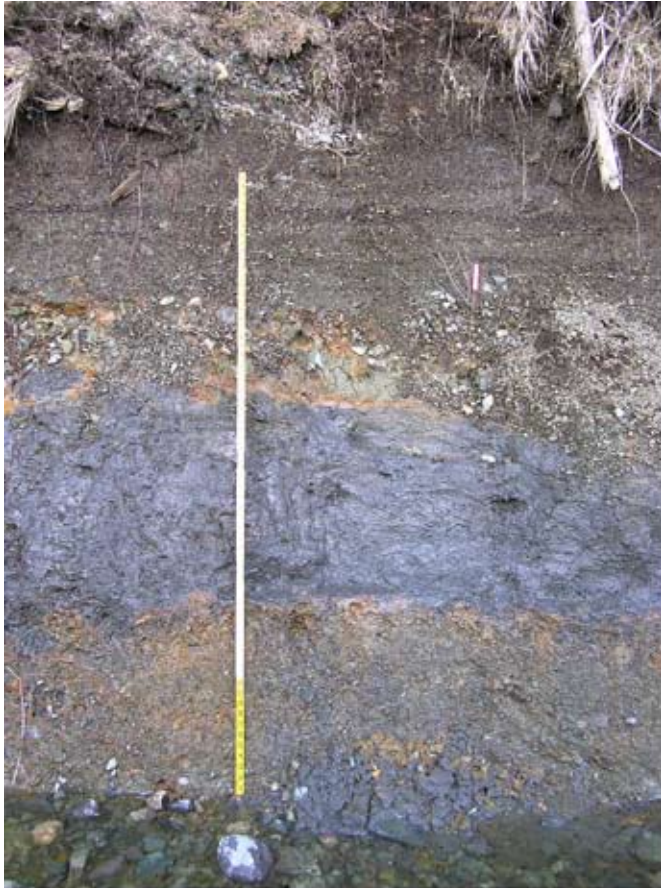
TOP 12 fossils of Tongass National Forest

10 SPRUCE CONES

Macrofossils in uplifted marine muds

9,350 years old

Found near Thorne Bay on Prince of Wales Island
and across Southeast Alaska



TOP 12 fosFils of Tongass National Forest

11 CRAFTY CORALS

Horn and Colonial Corals
Pennsylvanian and Permian Periods
260 million to 300 million years ago
Saginaw Bay, Kuiu Island and Suemez Island



TOP 12 Fossils of Tongass National Forest

12 GREAT GRAPTOLITES

Similar to jellyfish, with feathery arms

Ordovician Period

Prince of Wales Island and surrounding islands

