



FIGURE 1. GENERALIZED COMPOSITE, SCHEMATIC, AND PROJECTED STRUCTURAL DIAGRAM ACROSS SOUTHEASTERN ALASKA AND ADJACENT BRITISH COLUMBIA, FROM QUEEN CHARLOTTE FAULT TO ATLIN HORST.

Base from National Atlas 1:2,000,000 series: SOUTHEASTERN ALASKA, SHEET NUMBER 37, U. S. Geological Survey, 1970

Albers Equal Area Projection
SCALE 1:1,000,000
140° 139° 138° 137° 136° 135° 134° 133° 132° 131° 130°
60° 59° 58° 57° 56° 55° 54°

PRINCIPAL REFERENCES FOR THE TERRANES

Terrane	References
Chukchi terrane	Berg and others, 1974a, 1974b, 1974c, 1978, 1979 Fisher, 1981 Pflafer and others, 1976, 1977 Pflafer and others, 1979
Tanana terrane	Berg and others, 1974a, 1974b, 1974c, 1978, 1979 Fisher, 1981 Pflafer and others, 1976, 1977 Pflafer and others, 1979
Tracy Arm terrane	Tracy and others, 1975 Berg and others, 1974a, 1974b, 1974c, 1978, 1979 Fisher, 1981 Pflafer and others, 1976, 1977 Pflafer and others, 1979
Sitka terrane	Tracy and others, 1975 Berg and others, 1974a, 1974b, 1974c, 1978, 1979 Fisher, 1981 Pflafer and others, 1976, 1977 Pflafer and others, 1979
Other terranes	Berg and others, 1972 Berg and others, 1974a, 1974b, 1974c, 1978, 1979 Fisher, 1981 Pflafer and others, 1976, 1977 Pflafer and others, 1979

SUMMARY DESCRIPTIONS OF THE TERRANES

Chukchi terrane (column section 10): The Chukchi terrane comprises a complexly deformed and metamorphosed sequence of predominantly mafic volcanic rocks, and mafic and intermediate igneous rocks. It is bounded to the west by the Tanana terrane and to the east by the Tracy Arm terrane. The Chukchi terrane is separated from the Tanana terrane by the Queen Charlotte Strait fault and from the Tracy Arm terrane by the Sitka fault. The Chukchi terrane is characterized by distinctive tectonostratigraphic features that are absent in the Tanana and Tracy Arm terranes. The Chukchi terrane is separated from the Tanana terrane by the Queen Charlotte Strait fault and from the Tracy Arm terrane by the Sitka fault. The Chukchi terrane is characterized by distinctive tectonostratigraphic features that are absent in the Tanana and Tracy Arm terranes. The Chukchi terrane is separated from the Tanana terrane by the Queen Charlotte Strait fault and from the Tracy Arm terrane by the Sitka fault.

Tanana terrane (column section 11): The Tanana terrane comprises a complexly deformed and metamorphosed sequence of predominantly mafic volcanic rocks, and mafic and intermediate igneous rocks. It is bounded to the west by the Chukchi terrane and to the east by the Tracy Arm terrane. The Tanana terrane is separated from the Chukchi terrane by the Queen Charlotte Strait fault and from the Tracy Arm terrane by the Sitka fault. The Tanana terrane is characterized by distinctive tectonostratigraphic features that are absent in the Chukchi and Tracy Arm terranes. The Tanana terrane is separated from the Chukchi terrane by the Queen Charlotte Strait fault and from the Tracy Arm terrane by the Sitka fault.

Tracy Arm terrane (column section 12): The Tracy Arm terrane comprises a complexly deformed and metamorphosed sequence of predominantly mafic volcanic rocks, and mafic and intermediate igneous rocks. It is bounded to the west by the Tanana terrane and to the east by the Sitka terrane. The Tracy Arm terrane is separated from the Tanana terrane by the Queen Charlotte Strait fault and from the Sitka terrane by the Sitka fault. The Tracy Arm terrane is characterized by distinctive tectonostratigraphic features that are absent in the Tanana and Sitka terranes. The Tracy Arm terrane is separated from the Tanana terrane by the Queen Charlotte Strait fault and from the Sitka terrane by the Sitka fault.

Sitka terrane (column section 13): The Sitka terrane comprises a complexly deformed and metamorphosed sequence of predominantly mafic volcanic rocks, and mafic and intermediate igneous rocks. It is bounded to the west by the Tracy Arm terrane and to the east by the Tanana terrane. The Sitka terrane is separated from the Tracy Arm terrane by the Sitka fault and from the Tanana terrane by the Queen Charlotte Strait fault. The Sitka terrane is characterized by distinctive tectonostratigraphic features that are absent in the Tracy Arm and Tanana terranes. The Sitka terrane is separated from the Tracy Arm terrane by the Sitka fault and from the Tanana terrane by the Queen Charlotte Strait fault.

Other terranes (column sections 14-19): Other terranes include the Alexander terrane, the Gribouss terrane, the Gribouss-Islands terrane, the Gribouss-Islands terrane, the Gribouss-Islands terrane, the Gribouss-Islands terrane, and the Gribouss-Islands terrane. Each of these terranes is characterized by distinctive tectonostratigraphic features that are absent in the other terranes. Each of these terranes is separated from the other terranes by distinct faults.

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.