

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

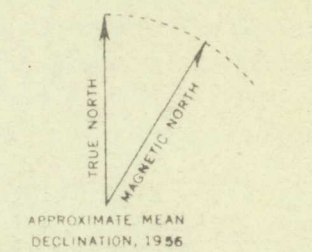
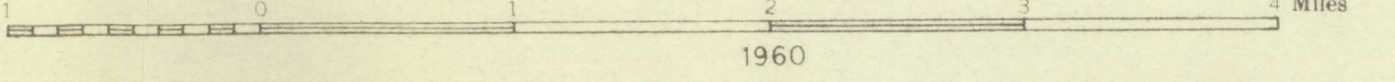


Base map by Topographic Division  
U.S. Geological Survey Series 1:63 360  
Sinks (B-1) and Sundum (B-6)  
Quadrangles

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

### GEOLOGY OF THE PYBUS-GAMBIER AREA, ALASKA

By  
R. A. Loney



Eocene	<b>EXPLANATION</b>	<b>GEOLOGIC SYMBOLS</b>
	<b>BEDDED ROCKS</b>	Contact Dashed where approximately located; dotted where concealed
	Admiralty Island volcanics <b>Td</b>	Fault, showing dip Dashed where approximately located; dotted where concealed
	Conglomerate and sandstone <b>Tcs</b>	Fault, showing relative movement U, upthrown side; D, downthrown side. Dashed where approximately located; dotted where concealed
	<b>ANGULAR UNCONFORMITY</b>	Thrust or reverse fault Saw-teeth on side of upper plate; dashed where approximately located; dotted where concealed
	Brothers volcanics <b>Kjb</b>	Fault or shear zone Showing dip
	Seymour Canal formation Kjs, argillite and graywacke Kjg, conglomerate and graywacke <b>Kjs</b>	Overturned anticline Showing trace of axial plane, direction of dip of limbs, and bearing and plunge of axis; dashed where approximately located
	<b>UNCONFORMITY</b>	Overturned syncline Showing trace of axial plane, direction of dip of limbs, and bearing and plunge of axis; dashed where approximately located
	Ryd formation Rh, argillite, chert, and limestone Rfv, volcanic flows <b>Rh</b>	Synform, approximate location Showing trace of axial plane and direction of dip of limbs
		Antiform, approximate location Showing trace of axial plane and direction of dip of limbs
Upper Triassic	<b>UNCONFORMITY</b>	Plunge of minor anticline
	Pybus dolomite <b>Pp</b>	Plunge of fold axes
	Cannery formation <b>Pc</b>	Horizontal fold axes
Silurian(?) and Devonian	<b>ANGULAR(?) UNCONFORMITY</b>	Plunge of axes of overturned folds
	Hood Bay formation May be correlative with Gambier Bay formation <b>Dsg</b>	Strike and dip of beds Beds right-side up
AGE UNKNOWN	<b>INTRUSIVE ROCKS</b>	Strike and dip of beds Top of beds unknown
	Diorite Hornblende-andesine diorite <b>D</b>	Strike and dip of overturned beds
<b>METAMORPHIC ROCK UNITS IN NORTHWEST PART OF AREA, MAPPED ONLY BY RECONNAISSANCE</b>		Strike of vertical beds 90 indicates top of beds
	Greenschist, marble, and phyllite May be equivalent of Gambier Bay formation 'g, greenschist and phyllite 'm, marble <b>G</b>	Strike of vertical beds Top of beds unknown
	Hornfels May include metamorphic equivalents of rocks from Silurian(?) to Triassic in age <b>H</b>	Strike of vertical beds 90 indicates top of beds
		Strike of beds and direction of dip estimated from distance
		Horizontal beds
		Generalized strike and dip of crumpled beds
		Generalized strike of vertical crumpled beds
		Strike and dip of foliation Gambier Bay formation only
		Strike of vertical foliation Gambier Bay formation only
		Strike, dip, and plunge of foliation Used in northwest part of area only
		Strike of vertical foliation Used in northwest part of area only
		Trend and plunge of lineation Used in northwest part of area only
		Trace of conspicuous marker bed
		Indefinite boundary

#### GEOLOGIC COMPILATION DIAGRAM

1. Geology by R. A. Loney, 1958-1959.
2. Reconnaissance geology by R. A. Loney  
assisted by H. C. BEYS, J. S. POWERS, and  
D. W. HINCKLEY, 1959.

