

REFERENCE		WRIGHT AND WRIGHT (1908)		BUDDINGTON & CHAPIN (1929)		CONDON (1961)		THIS PAPER				
AREA		Reconnaissance of southern Alaska south of Frederick Sound at scale of 1:887,000		Most of southeastern Alaska covered by reconnaissance mapping at scale of 1:500,000		Compilation and photogeologic interpretation of Craig 1:250,000 quadrangle		Geologic mapping of Craig B-4, C-3, C-4, C-5, C-6, D-4, D-5, D-6, quadrangles at scale of 1:63,360				
SYSTEM	SERIES	LITHOLOGY		Thickness (feet)	LITHOLOGY	Thickness (feet)	LITHOLOGY	Thickness (feet)	LITHOLOGY		Thickness (feet)	
CRETACEOUS(?)	UPPER	UNCONFORMITY							UNCONFORMITY			
	LOWER	UNCONFORMITY							UNCONFORMITY			
JURASSIC	UPPER	Graywacke, slate, and conglomerate carrying granite cobbles; lava conglomerate and sandstone; no fossils. ¹		2000 ±					UNCONFORMITY			
	MIDDLE								UNCONFORMITY			
	LOWER								UNCONFORMITY			
TRIASSIC	UPPER								UNCONFORMITY			
	MIDDLE								UNCONFORMITY			
	LOWER								UNCONFORMITY			
PERMIAN		Beds of Permian through Triassic age not recognized in Craig area.			Limestone with intercalated layers of white chert (300 feet thick, eastern Suemez Island).	1000	Closely folded blue and gray limestone (east tip Suemez Island).	300	UNCONFORMITY			
					Lower conglomerate, limestone, basaltic to rhyolitic volcanics (missing in Craig area).	3000 ±			UNCONFORMITY			
CARBONIFEROUS	PENNSYLVANIAN	UPPER							UNCONFORMITY			
		MIDDLE	Greenstone lava flows interstratified with volcanic tuff and black slate. ²		8600 ±	White massive limestone (Pennsylvanian?)	100+	White massive limestone (Pennsylvanian?) (SW Shelikof Island)		UNCONFORMITY		
		LOWER							UNCONFORMITY			
	MISSISSIPPIAN	UPPER	Fossiliferous limestone (Soda Springs Bay)		200+	Interlayered dense gray quartzite and cherty limestone; sparse conglomerate.		Cherty limestone, chert, and quartzite.		UNCONFORMITY		
						Interbedded coarsely crystalline limestone and black chert.	1000	Coarsely crystalline limestone and thin-layered black chert.		UNCONFORMITY		
		LOWER				Thin basal conglomerate and calcareous arkose.		Thin basal conglomerate and calcareous arkose.		UNCONFORMITY		
DEVONIAN	UPPER	Fossiliferous limestone (6 miles south of Klawak; San Juan Bautista Island)		1500 ±	Basalt, andesite (in part pillow lava), tuff, limestone, sandstone, slate, and conglomerate.	1000	Limestone and basalt with minor sandstone, argillite, conglomerate, and tuff.	1000	UNCONFORMITY			
					Limestone	600+	Massive limestone	600+	UNCONFORMITY			
	MIDDLE	Gray limestone with fossils. (Heceta Island) ³		1800 ±	Andesitic green to gray tuff (locally cherty) and graywacke, with locally, fine conglomerate layers, intercalated limestone and a minor amount of andesitic lava and breccia. ⁴	2400+	Graywacke, slate, conglomerate, and limestone interbedded with volcanics. ⁴	Predominantly graywacke and tuff.	2400+	UNCONFORMITY		
					Andesitic lava (in part pillow lava), breccia, tuff, conglomerate, and, locally, rhyolitic lava. ⁵	2000	Andesitic lava, breccia and conglomerate with cobbles of limestone. ⁵		2000	UNCONFORMITY		
					Interbedded limestone, slate chert, andesitic lava breccia, tuff and, locally, conglomerate. ⁵	2000	Slate, limestone, and chert with interbedded andesitic volcanic rocks. ⁵	Conglomerate and graywacke. ⁷	2000	UNCONFORMITY		
	LOWER	Tuff, sandstone, and conglomerate composed of chert, quartzite, limestone pebbles in tuffaceous matrix; no fossils. (1200 feet thick on Heceta Island)		3000 ±	Conglomerate and graywacke like sandstone with local limestone. ⁷					UNCONFORMITY		
								UNCONFORMITY				
SILURIAN	UPPER	(BASE NOT EXPOSED)			Green-gray graywacke with sparse conglomerate beds. Interbedded red, green-gray, and gray graywacke like sandstone with a small amount of shale. ⁷	5000+	Predominantly graywacke; mostly greenish-gray or gray, locally red; interbedded conglomerate, sandstone, or shale. Platy or thin-bedded to massive limestone in upper part, at least locally.	5000+	UNCONFORMITY			
	MIDDLE				Predominantly thick-bedded dense limestone; intercalated with thick beds of coarse conglomerate, thin-layered limestone, nodular and shaly argillaceous limestone, and sandstone.	Limestone 3000 ± Cglom 1500 ±	Massive limestone with locally interbedded and intercalated conglomerate, sandstone, or argillite; massive limestone with minor intercalated clastic strata; coarse conglomerate and sandy or argillaceous beds.	17,000+	UNCONFORMITY			
		LOWER				Andesite, (in part pillow lava) and andesite porphyry lava; conglomerate with some associated graywacke, tuff, breccia, and limestone.	3000 ±			UNCONFORMITY		
ORDOVICIAN	UPPER	Beds of Ordovician and (or) Silurian age not recognized in Craig area.			Indurated graywacke with associated black slate and sparse conglomerate and limy sediments.	?	Andesitic volcanic rocks associated with graywacke, black slate, limestone, and tuff in varying proportions. (Early Silurian and Ordovician)	Max 3000	UNCONFORMITY			
	MIDDLE				Indurated graywacke with associated black slate and sparse conglomerate and limy beds; locally andesitic pillow-lava and volcanic rocks.	?	Graywacke and dark colored to black slate with small proportion of andesitic volcanic rocks, conglomerate, and limy sedimentary rocks. (Lower and Middle Ordovician and Lower Silurian)	Several thousand feet	UNCONFORMITY			
	LOWER				Thin-layered black chert with black graptolitic slate partings, graywacke, and, locally andesitic volcanic rocks.	?			UNCONFORMITY			

¹ Beds so mapped by F.E. Wright and C.W. Wright in Craig area, in places equivalent to Port Refugio, Karheen, and Descon Formations.
² Beds so mapped by F.E. Wright and C.W. Wright in Craig area, in places equivalent to Peratrovich, Port Refugio, Karheen, and Descon Formations.
³ Beds so mapped by F.E. Wright and C.W. Wright on Heceta and Tuxekan Island equivalent to Heceta Limestone of authors; those south of Klawak and east of Craig equivalent to Peratrovich Formation.
⁴ Beds so mapped by A.F. Buddington and Theodore Chapin and compiled by W.H. Condon, in places equivalent to Port Refugio and Descon Formations.
⁵ Beds so mapped by A.F. Buddington and Theodore Chapin and compiled by W.H. Condon, in places equivalent to Port Refugio and Descon Formations.
⁶ Beds so mapped by A.F. Buddington and Theodore Chapin and compiled by W.H. Condon, in places equivalent to Port Refugio and Descon Formations.
⁷ Units so mapped by A.F. Buddington and Theodore Chapin and compiled by W.H. Condon, are correlative and equivalent to Karheen Formation.

GENERALIZED STRATIGRAPHIC CHART SHOWING COMPARISON OF PALEOZOIC NOMENCLATURE INTRODUCED IN THIS REPORT WITH PAST USAGE