

TABLE OF FORMATIONS

System or Series	Formation and map-unit		*Range in thickness: metres (feet)	Lithology	
Recent	Alluvium	Qal	0-10? (0-30?)	Unconsolidated gravel, sand, silt, clay	
Pleistocene or Recent	Marine deposits	Qm	0-30 (0-100?)	Dark grey, unconsolidated clayey and partly sandy silt	
Pleistocene	Glacial-fluvial gravel	Qg	0-10 (0-30)	Unconsolidated gravel: rounded and striated pebbles, cobbles and boulders in silty sand matrix	
Unconformity					
Eocene and Paleocene	Eureka	Te	18 (60)	Yellow-buff, unconsolidated sand; minor silt, clay, lignite	
Maestrichtian	Sound	KTe	300 (1000)	Te locally unconformable on Lower Cretaceous and older rocks	
	Formation			Buff-grey, unconsolidated sand; minor silt, clay, lignite	
Upper Cretaceous	Kanguk Formation	Kk	300-300+ (1000-1000+)	Dark grey and dark green-grey papery shale; partly silty; partly glauconitic; very thin tuff beds in lower part	
Upper and Lower Cretaceous	Hassel Formation	Khv <sub>2</sub> Kh Khv <sub>1</sub>	* 450 (1500)	Buff, light grey, light green and orange sandstone; minor shale; minor coal; locally glauconitic in lower part. Khv <sub>1</sub> : local basalt breccia; Khv <sub>2</sub> : local basalt breccia	
	Gabbro dykes and sills	Kd		Dark greenish-grey, fine-to coarse-crystalline, generally diabasic gabbro; intrudes strata to level of Kc <sub>3</sub> ; may locally intrude strata to level of Khv <sub>2</sub>	
Lower Cretaceous	Christopher Formation	Kc <sub>4</sub>	* 90 (280)	Dark grey, papery silty shale, with very thin beds of calcareous sandstone in upper part	
		Kc <sub>3</sub>	*385 (1270)	Dark grey, papery, slightly silty shale; tan and red-brown, large, calcareous siltstone nodules	
		Kc <sub>2</sub>	*321-421 (1060-1390)	Dark grey, papery, silty shale; large, buff and brown, calcareous siltstone nodules; siderite rosettes; upper 70 m (200 feet) is dark green, glauconitic, fine-grained sandstone	
		Kc <sub>1</sub>	*64-79 (210-260)	Dark grey, silty, sandy shale; medium brown, fine-grained, partly glauconitic sandstone; dark brown siltstone	
		Kc <sub>u</sub>		Dark grey shale, with calcareous siltstone; minor brown sandstone; includes undifferentiated units Kc <sub>1</sub> , Kc <sub>2</sub> , Kc <sub>3</sub> , and Kc <sub>4</sub>	
		Isachsen Formation	Ki	*990-1030 (3270-3400)	Buff and grey, fine- to coarse-grained sandstone with minor pebble lenses; dark brown siltstone; dark brown and dark grey shale; carbonaceous partings and very thin beds of coal
Lower Cretaceous and Upper Jurassic	Deer Bay Formation	JKd <sub>3</sub>	*180-270 (600-900)	Dark grey, papery, silty shale; large calcareous siltstone nodules; very thin beds of medium brown, very fine-grained sandstone in upper 200 feet	
		JKd <sub>ss</sub>	*0-30 (0-100)	Buff-grey, medium-grained, quartzose sandstone; minor pebble lenses; in region of Cape Ludwig	
		JKd <sub>2</sub>	* 240-360 (800-1200)	Dark grey to dark green-grey, slightly silty shale; partly very fine-grained glauconitic sandstone at top; intervals of large calcareous siltstone nodules; minor siderite rosettes	
		JKd <sub>1</sub>	0-330 (0-1100)	Dark grey, slightly silty shale; partly very fine-grained glauconitic sandstone and siltstone at top; intervals of large calcareous siltstone nodules	
		JKd <sub>u</sub>	635 (2100)	Dark grey, partly silty shale; very minor glauconitic siltstone; intervals of large calcareous siltstone nodules; includes undifferentiated units JKd <sub>1</sub> , JKd <sub>2</sub> , and JKd <sub>3</sub> - in northern Amund Ringnes Island	
Upper Jurassic	Awingak Formation	Ja <sub>sh</sub>	Ja <sub>4</sub>	120 (400)	Buff, partly brown, quartzose sandstone; minor pebble lenses; dark grey shale and siltstone
			Ja <sub>3</sub>	130 (450)	Buff grey, quartzose sandstone; minor pebble lenses; prominent intervals of red-brown sandstone
			Ja <sub>2</sub>	115 (375)	Light buff grey, quartzose sandstone; pebble lenses; tends to erode as hoodoos
			Ja <sub>1</sub>	75 (250)	Light to medium grey, very fine-grained, quartzose sandstone; silty and argillaceous; minor dark grey shale
		Ja <sub>sh</sub>	240-330 (800-1100)	Dark grey, silty, papery shale; very abundant, large calcareous siltstone nodules; very minor, yellow-brown, very thin beds of quartzose sandstone; lateral facies of Ja <sub>1</sub> - Ja <sub>2</sub> .	
Upper(?) Middle and (?) Lower Jurassic	Savik Formation	Js	300-420 (1000-1400)	Dark grey to dark green-grey shale; slightly silty in lower part; very minor, very thin tuff beds near Cape Ludwig; very minor glauconitic siltstone in lower part	
Lower Jurassic(?) and Upper Triassic	Heiberg Formation	RJh	180+ (600+)	Buff-grey, fine-grained, quartzose sandstone; silica-cemented	
Intrusive Contact					
Pennsylvanian	Diapiric domes and dykes	Pe	Pls g	Light to medium grey, and locally pink, massive and foliated gypsum; with included blocks and masses of dark grey anhydrite, medium grey and brown limestone and dolomite (Pls); and gabbro of unknown age (g)	

\*Thickness determined by plane-table survey; thicknesses of other units estimated by graphical methods.

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