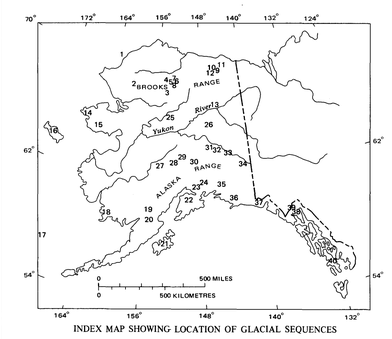
TABLE 2. – *Correlation of local Quaternary glacial sequences in Alaska*

[Compiled by T. L. Pewe', 1970]

Epoch	Glaciation or interglaciation	Years (x 10³) before present	Area	Western Brooks Range: North side	Western Brooks Range: South side	Central Brooks Range: South side	Central Brooks Range: North side						
				Alaskan Coast of Chukchi Sea 1*	Central Kobuk River valley 2	Alatna River valley 3	Killik–Etivluk River valleys 4	Chandler River valley 5	Colville-Sagavanirktok River valleys 6	Sagavanirktok-Anaktuvuk River valleys 7	Anaktuvuk Pass 8		
			Source	McCulloch (1967)	Fernald (1964)	Hamilton (1966)	Chapman, Detterman, and Mangus (1964)	Detterman, Bickel, and Gryc (1963)	Detterman, Bowsher, and Dutro (1958)	Detterman (1953)	Porter (1962)	Porter (1966)	
Holocene		1			Glacial advances	Valley – head advances			Fan Mountain Glaciation	Unnamed glaciation	Fan Mountain II 100-200 Glaciation; 1000-1200; Fan Mountain I Glaciation 1170±120	Fan Mountain II Stade; Fan Mountain I Stade	Fan Mtn Glaciation
		2											
		3									Alapah Mountain Glaciation 2830±120	Alapah Mountain Glaciation 2830±130	
		4		Postglacial thermal maximum	Ulaneak Creek Glaciation	Late Wisconsin; Itkillik Glaciation: Range Front Drift Helpmejack Drift 4765±40	Fan Mountain(?) Glaciation				4175±110 Hypsithermal	Hypsithermal	
		5											
		6		5890±170									
		7		Brief cooling							5900±250; 6360±160; 7241±95; 7500±250	Anivik Lake Stade 5890±170; 6260±160; 7241±95; 7530±150	Classical Wisconsin; Itkillik Glaciation
		8											
		9		8350±200 Warming		6760±90; 8205±195; Chebanika Drift 8990±80					8125±250; Echooka Glaciation	8300±270	
		10		10,200±800	Walker Lake Glaciation	Siruk Glaciation: Iniakuk Stade; Helpmejack Stade; Chebanika Stade; Siruk Creek Stade	Alapah Mountain(?) Glaciation	Alapah Mountain Glaciation	Echooka Glaciation			Antler Valley Stade; Anayaknaurak Stade 13,270±160	
Pleistocene	Wisconsinan Glaciation: Late			Glaciation; 25,300±2300; Middle Wisconsin marine transgression							18,000 Itkillik Glaciation	Banded Mountain Stade	
		30		34,000±2000; > 38,000	Ambler Glaciation	Alatna Glaciation: Stade; Early Wisconsin; Ko'ok Glaciation: Late stade; Early >34,000 >38,000	Echooka Glaciation; Itkillik Glaciation	Itkillik Glaciation	Echooka Glaciation; Itkillik Glaciation	Itkillik Glaciation	Sagavanirktok Glaciation	Sagavanirktok Glaciation	Classical Wisconsin
	Wisconsinan Glaciation: Early			Glaciation									
		70		>26,600±400; >38,000; >42,000									
	Sangamon Interglaciation			Marine transgression									
	Illinoian Glaciation			Glaciation	> 33,000; >38,000 Kobuk Glaciation	Koyukuk Glaciation	Oldest glaciation	Pre-Wisconsin: Anaktuvuk Glaciation	Pre-Wisconsin: Anaktuvuk Glaciation	Pre-Wisconsin: Sagavanirktok Glaciation	Pre-Wisconsin: Sagavanirktok Glaciation	Pre-Classical Wisconsin: Anaktuvuk Glaciation	Pre-Classical Wisconsin: Anaktuvuk Glaciation
	Unnamed interglaciation			Pre(?)-Illinoian: 170,000±17,000; 175,000±16,000; Marine transgression									
		200											
	Pre-Illinoian glaciation			Transgression; Transgression	Earliest glaciation				Anaktuvuk Glaciation	Anaktuvuk Glaciation			

Epoch	Glaciation or interglaciation	Years (x 10³) before present	Area	Eastern Brooks Range: North side						Eastern Brooks Range: South side	Seward Peninsula		St. Lawrence Island 16	Pribilof Islands 17	Chagvan Bay 18
				Mount Chamberlin 9		Lake Peters 10	Jago River valley 11		McCall Valley 12	Yukon Flats 13	York Mountains 14	South side 15			
			Source	Holmes (1959a); Holmes and Lewis (1961)	Holmes and Lewis (1965)	Reed (1968)	Kunkle (1958)	Sable (1965)	Keeler (1959)	Williams (1962)	Sainsbury (1967a,b)	Hopkins (1967a)	D.S.McCulloch (unpub.data); W. W. Patton (unpub. data)	Hopkins and Einarsson (1966)	Porter (1967)
Holocene		1		Fan Mountain Glaciation	Katak Glaciation	Katak Glaciation	Fan Mountain Glaciation	Fifth advance	Fifth advance	Glaciation	Protalus ramparts	Krusensternian transgression	Glaciation	Persistent snowbanks	
		2													
		3				Alapah Mountain Glaciation									
		4									Esch Creek 3750±250 Glaciation				
		5													
		6				Peters Glaciation									
		7													
		8													
		9													8910±110
		10		Alapah Mountain Glaciation	Peters Glaciation	Schrader Glaciation	Alapah Mountain Glaciation	Fourth advance	Fourth advance		10,880±300	Salmon Lake Glaciation			11,500±250; 12,110±130; 12,840±170
Pleistocene	Wisconsinan Glaciation: Late										Mint River Glaciation				Unaluk Glaciation
		30		Echooka Glaciation	Schrader Glaciation		Echooka River Glaciation	Third advance	Third advance			25,000±2300 Woronzofian transgression; 32,000 +3600 -2400			>45,000
	Wisconsinan Glaciation: Early						Itkillik Glaciation				York Glaciation				Chagvan Glaciation
		70		Itkillik Glaciation	Chamberlin Glaciation				Second advance						
	Sangamon Interglaciation										Lost River marine terrace >35,000	>38,000; 78,000±5000; 100,000±8000; Pelukian transgression			
	Illinoian Glaciation			Sagavanirktok Glaciation	Weller Glaciation	Weller Glaciation	Sagavanirktok River Glaciation	Second advance	First advance	Glaciation		Nome River Glaciation	Glaciation	Glaciation	Clara Creek Glaciation
	Unnamed interglaciation										Pre-Sangamon: Skull Creek erratics	120,000; Kotzebuan transgression; 175,000			
		200										320,000; Einahnubtan transgression; Anvilian transgression; Iron Creek Glaciation 2.1 m.y.			
	Pre-Illinoian glaciation			Anaktuvuk River Glaciation				First advance		Oldest glaciation		Beringian transgression			Kemuk Glaciation

Epoch	Glaciation or interglaciation	Years (x 10³) before present	Area	Aleutian Range	Alaska Peninsula 20	Kodiak Island 21	Cook Inlet 22	Upper Cook Inlet 23	Upper Matanuska Valley 24	Indian Mountain 25	Yukon-Tanana Upland 26	Alaska Range						Wrangell Mountains	Chugach Mountains		St. Elias Mountains			Adams Inlet 39	Prince of Wales Island 40
				Iliamna quadrangle 19				Anchorage area				Farewell 27	McKinley Park 28	Nenana River valley 29	Amphitheater Mountains 30	Delta River valley 31	Johnson-Robertson River valleys 32	Upper Tanana River valley 33	White River valley 34	Thompson Pass 35	Sheridan Glacier 36	Malaspina Glacier 37	Glacier Bay 38			Maybeso Creek valley
			Source	Detterman and Reed (1967)	Muller (1953); Heusser (1963a)	Karlstrom (1969)	Karlstrom (1961, 1964)	Miller and Dobrovolny (1959)	Williams and Ferrians (1961)	R. D. Reger and T. L. Pewe' (unpub. data)	Pewe', Burbank, and Mayo (1967)	Fernald (1960)	Reed (1960, 1961)	Wahrhaftig (1958); Wahrhaftig and Cox (1959)	Pewe' (1961c, 1965c)	Pewe' (1951b, 1952b, 1965c); Pewe' and others (1953); Pewe' and Holmes (1964); Reger and Pewe' (1969);	Holmes (1959c, 1965); Holmes and Foster (1968)	Fernald (1965 a,b)	Stuiver, Armstrong, and Denton (1969); Denton and Armstrong (1969)	Coulter and Coulter (1961, 1962)	Turbill, Field, and Clayton (1968)	Plafker and Miller (1958)	Goldthwait (1963, 1966)	Haselton (1966)	McKenzie (1970b); McKenzie and Goldthwait (1971)	Swanston (1969)
Holocene		1		Recent			Alaskan Glaciation: Tunnel II advance 1550 A.D.±150; 1500 A.D.±200; Tunnel I advance	1898 A.D. Minor advance						Rock glaciers	Advance	Black Rapids II 1830 A.D.; Black Rapids I 16507A.D.		1520	Worthington Glaciation	Advance 550±95	Advance 1700 A.D. to 1791 A.D.	Climax "Little Ice Age" 1550 A.D. to 1890 A.D.	Glacier Bay Till	Berg outwash deposition 1100 A.D. to 1700 A.D.	
		2					Tustumena III advance 565A.D.±200; 300 B.C.±300; 420 B.C.±100											1750	Marshall Pass Glaciation			Advance 600 A.D. to 1290 A.D.		1765±50		
		3		Alaskan Glaciation			Tustumena II advance 1250 B.C.±150		3620±250					Rock glaciers			Rock glaciers and minor glaciations						Great ice expansion 400 B.C. to 300 A.D.			
		4					Tustumena I advance 2550 B.C.±450; Pro-Tustumena advance	Unnamed glacial events															Ice expansion 2300 B.C. to 2700 B.C.	Fluvial and marine deposition	Adams lacustrine till 1795±150; Van Horn fluvial deposition 4150	Snowdrift moraine
		5		Recent	Tunnel Stade				Altithermal									5380					4700 B.C.			Hypsithermal
		6					3850 B.C.±500; Tanya III advance									5999±250		6200								
		7					4850 B.C.±550; Tanya II advance																Retreat			
		8			Tustumena Stade				8000±300															7025±270		Haystack Butte moraine ~8000
		9			Iliuk Glaciation		Pre-Naptowne Glaciation: Skilak III advance 7050 B.C.±750; 7920 B.C.±250; Skilak II advance 8420 B.C.±350; Skilak I advance 9980B.C.±250; Killey advances 10,950 B.C.±300; 11,550 B.C.±400	Naptowne Glaciation	Advance									8280						Muir Till		Crackerjack moraine; Maybeso moraine 9510±280
Pleistocene	Wisconsinan Glaciation: Late	10	Wisconsin; Brooks Lake Glaciation		Brooks Lake Glaciation	Akhiara Glaciation: Stintz Bluff advance; Olga Bay advance; Ikpik advance; Ayakulik advance	Moosehorn advance; Pro-Naptowne advance		Glaciation	Rock glaciers	Donnelly Glaciation	Farewell II Glaciation	Wonder Lake II	Riley Creek Glaciation	Denali II Glaciation	Donnelly Glaciation	Late Donnelly readvance	10,900; 11,270 Kluane Glaciation	Glaciation	Pre-Recent: Glaciation		Readvance 8000 B.C. 9100 B.C.; Retreat; Glaciation	10,000±200; 10,400±260 Marine deposition	"Muir till"; Forest Creek 10,940 glacier moraine deposition; Granite Canyon till	Glaciation	
		30			Advance IV; Advance III													25,800 Jatahmund Lake Glaciation								
							37,000 B.C.±3000; >38,000 B.C.												Glaciation >47,000								Glaciation
		70			Advance II; Advance I	Mak Hill Glaciation	Karluk Glaciation	Knik Glaciation	Knik Glaciation	Glaciation		Farewell I Glaciation	Wonder Lake I		Denali I Glaciation											
	Sangamon Interglaciation																	>42,000								
	Illinoian Glaciation		Pre-Wisconsin	Mak Hill Glaciation	Johnson Hill Glaciation	Sturgeon River Glaciation	Ekfutna Glaciation	Ekfutna Glaciation		Glaciation	Delta Glaciation	Selatna Glaciation	Glaciation	Healy Glaciation	Delta Glaciation	Delta Glaciation	Delta Glaciation	Black Hills Glaciation	Glaciation							
	Unnamed interglaciation						Caribou Hills Glaciation	Caribou Hills (?) Glaciation						Dry Creek Glaciation												
		200																								
	Pre-Illinoian glaciation				Advance		Mount Susitna Glaciation	Mount Susitna (?) Glaciation				Glaciation ?	Glaciation	Browne Glaciation >2.7 m.y.	Darling Creek Glaciation	Darling Creek Glaciation		1.6 m.y.; 2.7 to 10 m.y.; 11 glaciations								



INDEX MAP SHOWING LOCATION OF GLACIAL SEQUENCES

* Numbers refer to location on index map