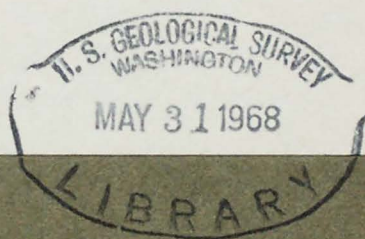


U. S. Geological Survey.

REPORTS-OPEN FILE SERIES, no. 866: 1967.



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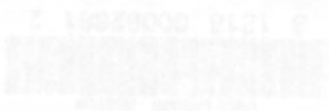
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UNITED STATES DEPARTMENT OF THE INTERIOR

*US* GEOLOGICAL SURVEY

*Reports - open file  
series, no. 8667*

Location of pingos and pingolike mounds  
observed from the ground, from aerial reconnaissance,  
and on aerial photographs in interior Alaska

Compiled by G. William Holmes

Open-file report

1967



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

Location of pingos and pingolike mounds observed from the ground, from aerial reconnaissance, and on aerial photographs in interior Alaska

Compiled by G. William Holmes

\* F, forest; S, shrub; B, bog

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Big Delta (D-6)	182	64°49.9'-146°43.8'	F	T. L. Pewe
	183	64°50.9'-146°40.8'	F	"
Charley River (A-2)  (A-3)  (A-4) (A-6) (B-2) (B-4) (C-2)  (C-3)	36	65°5.3'-141°57.2'	F	U.S.G.S. Topographic Division
	37	65°5.7'-141°46.0'	F	" "
	38	65°4.3'-142°11.5'	F	" "
	39	65°4.3'-142°2.8'	F	" "
	40	65°8.5'-142°8.5'	F	" "
	41	65°1.2'-142°29.5'	F	" "
	42	65°1.6'-142°55.0'	F	" "
	43	65°1.8'-143°38.5'	F	" "
	44	65°20.7'-141°41.2'	F	" "
	45	65°18.7'-142°36.7'	F	" "
	46	65°32.3'-143°56.9'	F	" "
	47	65°33.4'-141°58.8'	F	" "
	48	65°34.3'-143°52.0'	F	" "
	49	65°34.9'-141°53.8'	F	" "
	50	65°32.3'-142°27.7'	F	" "
51	65°32.8'-142°11.9'	F	" "	

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Charley River (C-3) (cont.)	52	65°32.7'-142°8.8'	F	U.S.G.S. Topographic Division
	53	65°32.8'-142°4.0'	F	" "
	54	65°32.8'-142°3.3'	F	" "
	55	65°32.9'-142°2.1'	F	" "
	56	65°33.3'-142°1.8'	F	" "
	57	65°33.4'-142°9.6'	F	" "
	58	65°34.7'-142°1.8'	F	" "
	59	65°34.9'-142°3.0'	F	" "
	60	65°35.2'-142°3.1'	F	" "
	61	65°38.4'-142°19.8'	F	" "
	62	65°42.4'-142°1.0'	F	" "
(C-4)	63	65°31.4'-142°39.2'	F	" "
	64	65°31.8'-142°30.8'	F	" "
	65	65°34.2'-142°36.6'	F	" "
(C-6)	66	65°30.6'-143°36.8'	F	" "
(D-4)	67	65°48.9'-142°47.5'	F	" "
(D-5)	68	65°46.7'-143°28.5'	F	" "
	69	65°54.5'-143°10.8'	F	" "
	70	65°54.5'-143°10.0'	F	" "
	71	65°54.7'-143°11.0'	F	" "
Circle (C-1)	35	65°42.3'-144°23.5'	F	D. B. Krinsley
(B-3)	265	65°27.5'-145°02.5'	S	W. E. Davies (3 pingos)
Eagle (A-6)	268	64°01'-143°39'	S	H. L. Foster
	269	64°05'-143°32'	F	"
(B-6)	270	64°28'-143°32'	F	"

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Fairbanks (C-2)	184	64°42.9'-147°38.9'	S	T. L. Pévé
(D-2)	185	64°53.9'-147°54.9'	B	"
	186	64°53.9'-147°54.9'	B	"
	187	64°53.9'-147°54.9'	B	"
(D-6)	188	64°51.0'-149°59.9'	N	F. R. Weber
	189	64°51.4'-149°59.9'	N	"
	190	64°59.9'-149°56.0'	F	"
	191	64°59.9'-149°55.2'	F	"

Kantishna (D-1)	192	64°50.1'-150°4.1'	S	"
	193	64°50.8'-150°0.9'	S	"
	194	64°50.9'-150°0.6'	S	"

Kateel River (A-1)	195	65°6.3'-156°04.5'	S	"
(A-5)	196	65°1.2'-158°13.6'	S	"

Quadrangle	Reference number	Coordinates	Vegetation*	Observer	
Livengood (A-1)	19	65°4.2'-147°12.2'	S	D. M. Hopkins	
	197	65°1.2'-147°6.8'	S	T. L. Péwé	
	(A-6)	198	65°5.1'-149°34.9'	F	F. R. Weiler
	199	65°5.1'-149°33.6'	S	"	
	200	65°5.6'-149°52.9'	S	"	
	201	65°5.6'-149°51.9'	S	"	
	202	65°5.8'-149°52.0'	S	"	
	203	65°6.5'-149°49.3'	S	"	
	204	65°6.3'-149°48.4'	S	"	
	205	65°2.4'-149°37.8'	F	"	
	206	65°3.3'-149°43.9'	S	"	
	(D-6)	73	65°46.2'-149°59.2'	F	U.S.G.S. Topographic Division
	Mt. Hayes (C-3)	17	63°39.5'-144°6.6'	F	H. L. Foster
18		63°44.5'-144°12.6'	F	"	
(D-1)		74	63°48.2'-144°15.0'	F	G. W. Holmes
75		63°50.6'-144°12.0'	F	"	
76		63°57.5'-144°27.9'	B	"	
(D-2)		77	63°48.9'-144°37.9'	F	"
78		63°53.2'-144°37.5'	F	"	
79		63°56.6'-144°31.8'	F	"	
80		63°56.8'-144°33.0'	F	"	



Quadrangle	Reference number	Coordinate	Vegetation*	Observer	
Tanacross (A-1)	81	63°5.6'-141°10.5'	S	A. T. Fernald	
	82	63°6.3'-141°2.8'	F	"	
	83	63°8.2'-141°4.7'	S	"	
	84	63°8.6'-141°3.8'	F	"	
	85	63°9.4'-141°4.8'	F	"	
	86	63°10.4'-141°3.8'	F	"	
	87	63°14.4'-141°15.6'	F	"	
	88	63°14.6'-141°13.6'	F	"	
(A-2)	89	63°12.8'-141°52.1'	S	"	
	271	63°04'-141°55'	F	"	
(A-4)	90	63°12.6'-142°40.3'	S	"	
(B-1)	91	63°19.0'-141°20.8'	F	"	
	92	63°22.9'-141°27.4'	F	"	
	93	63°25.8'-141°20.3'	F	"	
	94	63°27.0'-141°27.4'	F	"	
	95	63°27.0'-141°20.5'	F	"	
	96	63°27.2'-141°12.6'	F	"	
	97	63°27.2'-141°11.8'	F	"	
	98	63°28.6'-141°23.1'	F	"	
	(B-2)	99	63°15.4'-141°44.4'	B	"
		100	63°15.9'-141°45.6'	F	"
101		63°16.4'-141°41.6'	F	"	

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Tanacross (B-2) (cont.)	102	63°15.9' -141°34.0'	F	A. T. Fernald
	103	63°16.4' -141°34.6'	F	"
	104	63°16.9' -141°48.5'	F	"
	105	63°18.1' -141°51.1'	F	"
	106	63°18.5' -141°35.9'	F	"
	107	63°19.2' -141°57.2'	F	"
	108	63°19.9' -141°58.9'	F	"
	109	63°19.9' -141°54.9'	F	"
	110	63°20.2' -141°56.0'	F	"
	111	63°20.5' -141°56.9'	F	"
	112	63°20.4' -141°47.5'	F	"
	113	63°19.9' -141°44.7'	F	"
	114	63°20.1' -141°43.6'	F	"
	115	63°21.6' -141°40.0'	F	"
	116	63°22.6' -141°37.9'	F	"
	117	63°23.2' -141°32.7'	F	"
	118	63°24.3' -141°45.1'	F	"
	119	63°25.0' -141°38.6'	F	"
	120	63°26.0' -141°33.5'	F	"
	<del>121</del>	63°27.4' -141°58.1'	F	"
	122	63°27.8' -141°57.3'	F	"
	123	63°28.1' -141°56.0'	F	"
	124	63°28.4' -141°56.4'	F	"
	125	63°28.4' -141°58.7'	F	"
	126	63°28.7' -141°58.2'	F	"
	127	63°28.7' -141°57.6'	F	"

Quadrangle	Reference number	Coordinates	Vegetation *	Observer	
Tanacross (B-2) (cont.)	128	63°29.2'-141°56.4'	F	A. T. Fernald	
	129	63°29.1'-141°51.9'	F	"	
	130	63°28.4'-141°50.1'	F	"	
	131	63°27.7'-141°34.6'	F	"	
	132	63°27.8'-141°34.9'	F	"	
	133	63°29.9'- <del>141</del> °44.7'	F	"	
	(B-3)	134	63°18.6'-142°9.5'	F	"
		135	63°19.1'-142°8.5'	F	"
		1	63°19.9'-142°29.8'	F	G. Corchary
		137	63°21.4'-142°27.2'	F	A. T. Fernald
		138	63°21.5'-142°26.1'	F	"
		139	63°21.6'-142°24.9'	F	"
		140	63°20.8'-142°24.9'	F	"
141		63°20.8'-142°22.4'	F	"	
142		63°20.6'-142°18.9'	F	"	
143		63°21.2'-142°19.9'	F	"	
144		63°21.4'-142°18.7'	F	"	
145		63°21.9'-142°18.9'	F	"	
146		63°22.0'-142°18.8'	F	"	
147		63°21.1'-142°15.4'	F	"	
148		63°21.8'-142°15.7'	F	"	
149	63°22.0'-142°14.7'	F	"		
150	63°21.7'-142°12.0'	F	"		
151	63°21.0'-142°9.9'	F	"		
152	63°22.3'-142°10.8'	F	"		
153	63°23.4'-142°12.8'	F	"		

Quadrangle	Reference number	Coordinates	Vegetation*	Observer	
Tanacross (B-3) (cont.)	154	63°27.3'-142°15.6'	F	A. T. Fernald	
	155	63°25.6'-142°8.0'	F	"	
	156	63°24.8'-142°5.8'	F	"	
	157	63°25.3'-142°5.8'	F	"	
	158	63°26.2'-142°3.2'	F	"	
	159	63°26.9'-142°6.2'	F	"	
	160	63°27.5'-142°7.4'	F	"	
	161	63°27.7'-142°4.8'	F	"	
	162	63°28.3'-142°2.9'	F	"	
	(B-4)	163	63°24.8'-142°33.4'	F	"
		164	63°25.4'-142°34.5'	F	"
		165	63°25.6'-142°34.2'	F	"
	(C-1)	243	63°42.4'-141°4.8'	F	H. L. Foster
	244	63°43.9'-141°1.0'	F	"	
(C-2)	245	63°34.1'-141°38.4'	F	"	
	246	63°40.7'-141°53.2'	F	"	
	247	63°39.7'-141°47.9'	F	"	
	248	63°40.1'-141°46.3'	F	"	
	249	63°42.5'-141°45.7'	F	"	
	250	63°42.5'-141°43.2'	F	"	
(C-3)	2	63°31.6'-142°14.9'	F	"	
	3	63°33.9'-142°27.1'	F	"	
	4	63°34.3'-142°26.7'	F	"	
	5	63°34.1'-142°26.2'	F	"	
	6	63°34.0'-142°27.5'	F	"	
	7	63°33.7'-142°19.3'	F	"	

Quadrangle	Reference number	Coordinates	Vegetation*	Observer	
Tanacross (C-3) (cont.)	8	63°39.0'-142°19.3'	F	H. L. Foster	
	9	63°41.3'-142°23.2'	F-S	"	
	10	63°41.8'-142°21.9'	F	"	
	11	63°41.8'-142°21.0'	F	"	
	12	63°41.0'-142°26.5'	F	"	
	(C-5)	13	63°44.7'-143°04.8'	F	"
		14	63°44.8'-143°05'	F	"
		15	63°44.3'-143°06.8'	F	"
		16	63°38.6'-143°22'	F	"
		72	63°41.2'-143°05'	F	G. W. Holmes
		166	63°40.4'-143°24.9'	F	"
		167	63°40.8'-143°25.5'	F	"
168		63°41.6'-143°26.6'	F	"	
169		63°43.1'-143°28.6'	F	"	
170		63°44.0'-143°28.5'	F	"	
171	63°44.7'-143°24.4'	F	"		
(C-6)	172	63°43.1'-143°38.5'	F	"	
(D-1)	251	63°46.8'-141°2.0'	F	H. L. Foster	
(D-2)	252	63°45.7'-141°53.9'	F	"	
	253	63°45.8'-141°53.0'	F	"	
	254	63°45.5'-141°50.2'	B	"	
	255	63°45.7'-141°50.0'	F	"	
	256	63°46.4'-141°42.1'	F	"	
	257	63°46.3'-141°39.2'	F	"	
	258	63°48.0'-141°37.9'	F	"	
	259	63°49.1'-141°46.9'	F	"	

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Tanacross (D-2) (cont.)	260	63°49.7' -141°47.2'	F	H. L. Foster
	261	63°50.9' -141°39.8'	F	"
	262	63°51.3' -141°37.1'	F	"
	263	63°58.8' -141°53.4'	F	"
	264	63°59.0' -141°51.7'	F	"
(D-4)	266	63°57.8' -142°51.2'	F	H. R. Schmoll
	267	63°57.3' -142°51.4'	F	"
(D-5)	173	63°48.3' -143°21.0'	F	H. L. Foster
	174	63°48.8' -143°13.9'	F	"
	175	63°49.8' -143°15'	B	"
	176	63°49.6' -143°24.9'	F	"
	177	63°52.5' -143°24.5'	F	"
	178	63°52.4' -143°24.3'	F	"
	179	63°52.4' -143°23.9'	F	"
(D-6)	180	63°48.1' -143°39.2'	F	G. W. Holmes
	181	63°54.2' -143°35.8'	F	"

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Tanana (A-1)	20	65°4.4'-150°18.5'	S	D. M. Hopkins
	21	65°9.2'-150°20.4'	S	"
	22	65°10.1'-150°4.9'	S	"
	23	65°12.4'-150°5.6'	F	"
	213	65°2.6'-150°22.9'	F	"
	214	65°2.4'-150°22.6'	S	"
	215	65°2.6'-150°21.7'	F	"
	216	65°2.6'-150°21.3'	F	"
	217	65°3.7'-150°8.8'	S	"
	218	65°2.2'-150°3.9'	F	"
	219	65°1.8'-150°3.2'	F	"
	232	65°6.2'-150°23.5'	S	"
	233	65°7.0'-150°21.4'	N	"
	234	65°6.8'-150°21.0'	N	"
	235	65°4.6'-150°18.2'	S	"
	236	65°4.4'-150°18.5'	S	"
	237	65°9.3'-150°19.5'	S	"
	238	65°9.4'-150°19.5'	S	"
	239	65°11.4'-150°10.1'	S	"
	240	65°12.5'-150°4.9'	F	"
	241	65°10.9'-150°24.9'	F	"

Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Tanana (A-2)	24	65°8.0'-150°36.6'	S	D. M. Hopkins
	25	65°8.4'-150°36.9'	S	"
	26	65°8.7'-150°37.5'	S	"
	27	65°10.1'-150°32.3'	S	"
	28	65°10.2'-150°32.6'	S	"
	29	65°10.3'-150°33.0'	S	"
	30	65°10.5'-150°34.0'	S	"
	31	65°11.2'-150°36.5'	S	"
	32	65°13.5'-150°45.4'	S	"
	33	65°6.2'-150°53.1'	S	"
	34	65°6.4'-150°53.5'	S	"
	210	65°0.6'-150°57.5'	S	"
	211	65°0.6'-150°56.9'	S	"
	212	65°3.7'-150°33.4'	S	"
	220	65°6.5'-150°53.8'	S	"
	221	65°06.1'-150°52.8'	S	"
	222	65°9.8'-150°41.2'	S	"
	223	65°9.8'-150°39.8'	S	"
	224	65°9.8'-150°39.7'	S	"
	225	65°9.7'-150°39.7'	S	"
	226	65°9.6'-150°38.9'	S	"
	227	65°9.5'-150°38.7'	S	"
	228	65°9.0'-150°39.5'	S	"
	229	65°7.4'-150°43.2'	F	"
	230	65°7.5'-150°35.0'	F	"
	231	65°8.7'-150°32.9'	S	"



Quadrangle	Reference number	Coordinates	Vegetation*	Observer
Tanana (A-2) (cont.)	242	65°11.6'-150°33.5'	F	D. M. Hopkins
(A-3)	208	65°6.4'-151°9.8'	S	"
(A-4)	209	65°12.2'-151°58.5'	S	F. R. Weber



*From Smalley*

GEOLOGIC DIVISION  
U. S. GEOLOGICAL SURVEY  
WASHINGTON, D.C.  
20242

For release JANUARY 9, 1967

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1. <sup>Ice bumps</sup> Location of pingos and pingolike mounds observed from the ground, from aerial reconnaissance, and on aerial photographs in interior Alaska, by G. William Holmes. 13 p. Brooks Bldg., College, Alaska; 203 Simpson Bldg., 222 Seward St., Juneau, Alaska; Alaska Division of Mines and Minerals, 5th Floor, Goldstein Bldg., Juneau, and 3001 Porcupine Dr., Anchorage, Alaska; 108 Skyline Bldg., 508 2nd Ave., Anchorage, Alaska; South 157 Howard St., Spokane, Wash.; 504 Custom House, San Francisco, Calif.; 15426 Federal Bldg., Denver, Colo.; 7638 Federal Bldg., Los Angeles, Calif.; 602 Thomas Bldg., Dallas, Texas. Limited number of copies available for free distribution from the Alaskan Geology Branch, U. S. Geological Survey, 345 Middlefield Rd., Menlo Park, Calif. 94025.

2. Preliminary geologic map of the Butte South quadrangle, Montana, by Harry W. Smedes. 1 map, in 4 sheets, plus explanation. Scale 1:24,000. South 157 Howard St., Spokane, Wash.; 15426 Federal Bldg., Denver, Colo.; 8102 Federal Office Bldg., Salt Lake City, Utah; and the Montana Bureau of Mines and Geology, Montana College of Mineral Science and Technology, Butte, Mont. Copy from which reproduction can be made at private expense is available in the U. S. Geological Survey office at South 157 Howard St., Spokane, Wash. 99204.

3. Chart showing number of particles of metal expected per 5 pound sample for various levels of grade and average particle size (regardless of the spatial distribution of particles), by A. T. Miesch. 1 p., 1 chart.

\* \* \* \* \*

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*Sella S. Kennedy*



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