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## Geological Processes on Mercury and the Mapping of the Derain (H-10) Quadrangle.

### Thesis

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# Appendix B

## 1: Image Survey Positive Results

Im-ID	NAC frame	Slope feature?	Confidence of identification	Slope Type	Average pixel resolution (mpp)	Largest slope angle
56	EN0221584467M	Unlikely	1	-	19.0	34.6°
57	EN0221584470M	Possible	3	-	19.2	32.2°
66	EN0221584497M	Unlikely	1	-	19.6	8.7°
199	EN0225228843M	Possible	3	-	19.1	30.3°
204	EN0225228874M	Unlikely	1	-	18.1	12.5°
213	EN0225398231M	Unlikely	2	-	18.9	21.2°
235	EN0236702224M	Unlikely	1	-	19.6	4.0°
258	EN0236871995M	Possible	2	-	12.5	8.3°
508	EN0239622997M	Unlikely	1	-	13.9	7.5°
509	EN0239623002M	Unlikely	1	-	13.7	11.2°
603	EN0240375070M	Unlikely	1	-	14.6	12.7°
616	EN0240416752M	Possible	4	-	17.4	28.2°
617	EN0240416757M	Possible	4	-	17.2	37.6°
618	EN0240416762M	Possible	3	-	17.1	36.4°
619	EN0240416767M	Possible	3	-	16.9	50.2°
620	EN0240416772M	Possible	4	-	16.8	50.2°
628	EN0240458481M	Possible	3	-	19.8	76.8°
630	EN0240458493M	Possible	3	-	19.5	45.2°
639	EN0240458550M	Possible	3	-	17.0	25.9°
640	EN0240458555M	Possible	4	-	16.8	30.3°
717	EN0252034665M	Possible	4	-	16.1	34.0°
722	EN0252034690M	Possible	3	-	16.6	14.6°
1292	EN1015020895M	Possible	2	-	17.8	26.1°
1295	EN1015020913M	Unlikely	1	Crater	17.5	76.8°
1296	EN1015020919M	Unlikely	1	-	17.4	45.6°
1314	EN1015049723M	Unlikely	2	-	18.0	76.8°
2087	EN1034090902M	Unlikely	1	-	15.7	12.3°
2089	EN1034090906M	Unlikely	1	Crater	15.6	8.9°
2091	EN1034090910M	Unlikely	1	-	15.6	11.1°
2202	EN1034148007M	Unlikely	1	-	19.9	31.8°
2238	EN1034148199M	Unlikely	1	Crater	15.0	30.0°
2239	EN1034148203M	Unlikely	1	Crater	14.9	29.3°
2323	EN1034234495M	Unlikely	1	Crater	19.9	31.7°
2324	EN1034234501M	Unlikely	1	Crater	19.7	28.9°
2368	EN1034263486M	Unlikely	4	Crater	11.8	24.1°
2525	EN1034810789M	Possible	2	Crater	19.3	27.8°
2528	EN1034810804M	Unlikely	1	Crater	19.1	20.4°
2546	EN1034810879M	Unlikely	1	Crater	17.8	11.3°
2564	EN1034839632M	Possible	2	Crater	18.4	18.4°
2584	EN1034868372M	Unlikely	1	-	19.5	29.1°

Im-ID	NAC frame	Slope feature?	Confidence of identification	Slope Type	Average pixel resolution (mpp)	Largest slope angle
2642	EN1034897271M	Possible	2	-	17.6	23.0°
2682	EN1034926083M	Unlikely	1	-	17.3	22.3°
2691	EN1034926119M	Unlikely	2	Crater	16.7	8.0°
2711	EN1034954840M	Unlikely	1	-	18.1	49.2°
3244	EN1044173927M	Yes	5	-	8.8	20.1°
3245	EN1044173928M	Yes	5	-	8.8	13.9°
3891	EN1044346557M	Yes	4	-	8.4	8.6°
7224	EN1059413252M	Unlikely	2	Crater	16.1	37.7°
7226	EN1059413264M	Possible	3	-	15.5	40.7°
7227	EN1059413270M	Yes	5	Pit	15.3	40.3°
7228	EN1059413276M	Unlikely	3	-	14.8	22.7°
7285	EN1059620359M	Possible	3	-	6.8	19.2°
7287	EN1059620367M	Yes	5	Pit	6.6	6.2°
7305	EN1059649919M	Unlikely	1	-	11.0	21.7°
7356	EN1062637134M	Possible	2	-	13.4	15.8°
7357	EN1062637138M	Possible	2	-	13.6	7.0°
8250	EN1064442196M	Unlikely	1	-	5.4	3.8°
8374	EN1064471927M	Unlikely	1	-	5.8	10.1°
8404	EN1064472047M	Unlikely	1	-	5.5	29.2°
8406	EN1064472055M	Unlikely	1	-	5.5	1.9°
8820	EN1064501778M	Unlikely	1	-	5.4	10.7°
8880	EN1064531316M	Possible	4	-	14.1	34.1°
8943	EN1064531658M	Unlikely	2	-	5.7	5.9°
8947	EN1064531662M	Unlikely	1	-	5.7	3.0°
8948	EN1064531663M	Unlikely	1	-	5.7	2.8°
9049	EN1064591236M	Unlikely	1	-	5.5	30.4°
9059	EN1064710303M	Unlikely	2	-	4.1	4.9°

## 2: Individual Mass Movement Features

F-ID	Feature Type	Confidence	Orientation	Length (m)	Long	Lat
1	Albedo	Clear	73	685	83°E	52°N
2	Albedo	Clear	72	1028	83°E	52°N
3	Albedo	Clear	63	1066	83°E	52°N
4	Albedo	Clear	65	1059	83°E	52°N
5	Albedo	Clear	54	499	83°E	52°N
6	Albedo	Clear	63	480	83°E	52°N
7	Albedo	Clear	81	476	83°E	52°N
8	Albedo	Clear	141	488	83°E	52°N
9	Albedo	Clear	141	261	83°E	52°N
10	Albedo	Clear	77	387	83°E	52°N
11	Albedo	Clear	39	972	83°E	52°N
12	Albedo	Clear	87	336	83°E	52°N
13	Albedo	Clear	86	202	83°E	52°N
14	Albedo	Clear	87	256	83°E	52°N
15	Albedo	Unclear	291	526	17°E	58°N
16	Albedo	Unclear	275	822	17°E	58°N
17	Albedo	Unclear	250	2385	19°E	58°N
18	Albedo	Unclear	237	1834	19°E	58°N
19	Albedo	Unclear	280	445	18°E	59°N
20	Albedo	Unclear	295	553	18°E	59°N
21	Albedo	Unclear	15	1212	57°E	36°N
22	Albedo	Clear	343	629	81°E	53°N
23	Albedo	Clear	325	421	81°E	53°N
24	Albedo	Clear	309	293	81°E	53°N
25	Albedo	Unclear	260	635	33°E	40°N
26	Albedo	Unclear	280	472	33°E	40°N
27	Albedo	Unclear	238	389	32°E	43°N
28	Albedo	Unclear	260	529	32°E	43°N
29	Albedo	Unclear	38	1035	62°E	36°N
30	Albedo	Unclear	42	1069	62°E	36°N
31	Albedo	Unclear	35	870	63°E	36°N
32	Albedo	Unclear	24	693	63°E	36°N
33	Albedo	Unclear	15	547	83°E	54°N
34	Albedo	Unclear	297	1359	17°E	59°N
35	Albedo	Unclear	318	684	16°E	59°N
36	Albedo	Clear	352	688	85°E	52°N
37	Albedo	Clear	335	560	85°E	52°N
38	Albedo	Clear	310	443	85°E	52°N
39	Albedo	Clear	50	7929	64°E	36°N
40	Albedo	Clear	51	5163	64°E	36°N
41	Albedo	Clear	31	3978	64°E	36°N
42	Albedo	Clear	36	3567	64°E	36°N
43	Albedo	Clear	29	4150	64°E	36°N
44	Albedo	Clear	25	4767	64°E	36°N

F-ID	Feature Type	Confidence	Orientation	Length (m)	Long	Lat
45	Albedo	Clear	26	3893	64°E	36°N
46	Albedo	Clear	26	4422	64°E	36°N
47	Albedo	Clear	40	5566	64°E	36°N
48	Albedo	Clear	38	6055	64°E	36°N
49	Albedo	Clear	40	8967	64°E	36°N
50	Albedo	Clear	43	4131	64°E	36°N
51	Albedo	Unclear	57	4460	64°E	36°N
52	Albedo	Unclear	254	237	18°E	58°N
53	Albedo	Clear	302	1285	85°E	54°N
54	Albedo	Clear	305	383	85°E	54°N
55	Albedo	Clear	292	1256	64°E	36°N
56	Albedo	Clear	291	941	64°E	36°N
57	Albedo	Clear	290	922	64°E	36°N
58	Albedo	Clear	284	375	64°E	36°N
59	Albedo	Clear	306	951	64°E	36°N
60	Albedo	Clear	289	675	64°E	36°N
61	Albedo	Unclear	324	824	85°E	54°N
62	Albedo	Clear	350	2067	85°E	51°N
63	Albedo	Clear	9	1872	85°E	51°N
64	Albedo	Clear	354	1957	85°E	51°N
65	Albedo	Clear	358	1936	85°E	51°N
66	Albedo	Clear	6	1083	35°E	46°N
67	Albedo	Unclear	26	794	35°E	46°N
68	Albedo	Unclear	11	654	35°E	46°N
69	Albedo	Clear	356	657	85°E	51°N
70	Albedo	Clear	313	526	85°E	51°N
71	Albedo	Clear	350	235	85°E	51°N
72	Albedo	Clear	320	233	85°E	51°N
73	Albedo	Clear	15	390	85°E	51°N
74	Albedo	Clear	2	321	81°E	53°N
75	Albedo	Unclear	234	996	31°E	41°N
76	Albedo	Unclear	249	1108	31°E	41°N
77	Albedo	Unclear	257	952	31°E	41°N
78	Topographic	Unclear	190	743	6°E	64°N
79	Topographic	Unclear	194	721	6°E	64°N
80	Topographic	Unclear	175	653	6°E	64°N
81	Topographic	Clear	12	3627	64°E	36°N
82	Topographic	Clear	12	4198	64°E	36°N
83	Topographic	Clear	8	4079	64°E	36°N
84	Topographic	Clear	15	6223	64°E	36°N
85	Topographic	Clear	9	5847	64°E	36°N
86	Topographic	Clear	13	6490	64°E	36°N
87	Topographic	Clear	16	5007	64°E	36°N
88	Topographic	Clear	12	2484	64°E	36°N
89	Topographic	Clear	12	5924	64°E	36°N
90	Topographic	Clear	3	5580	64°E	36°N

<b>F-ID</b>	<b>Feature Type</b>	<b>Confidence</b>	<b>Orientation</b>	<b>Length (m)</b>	<b>Long</b>	<b>Lat</b>
91	Topographic	Clear	7	4164	64°E	36°N
92	Topographic	Clear	2	5286	64°E	36°N
93	Topographic	Unclear	17	1191	64°E	36°N
94	Topographic	Unclear	17	1041	64°E	36°N
95	Topographic	Unclear	360	612	64°E	36°N
96	Albedo	Unclear	28	2712	64°E	36°N
97	Albedo	Unclear	17	3110	64°E	36°N
98	Albedo	Unclear	51	2035	64°E	36°N
99	Topographic	Unclear	185	453	18°E	57°N
100	Topographic	Unclear	186	385	18°E	57°N
101	Topographic	Unclear	185	314	18°E	57°N
102	Topographic	Unclear	191	255	18°E	57°N
103	Albedo	Unclear	267	842	19°E	58°N
104	Topographic	Clear	172	973	63°E	42°N
105	Topographic	Clear	178	1042	63°E	42°N
106	Topographic	Clear	188	937	63°E	42°N
107	Topographic	Clear	189	897	63°E	42°N
108	Topographic	Clear	188	494	63°E	42°N
109	Topographic	Clear	201	656	63°E	42°N
110	Topographic	Clear	197	704	63°E	42°N
111	Topographic	Clear	200	537	63°E	42°N
112	Topographic	Clear	204	405	63°E	42°N
113	Topographic	Clear	177	692	63°E	42°N
114	Topographic	Clear	170	516	63°E	42°N
115	Topographic	Clear	197	311	63°E	42°N
116	Topographic	Clear	217	271	63°E	42°N
117	Topographic	Clear	207	198	63°E	42°N
118	Topographic	Clear	208	217	63°E	42°N
119	Topographic	Clear	211	431	63°E	42°N
120	Topographic	Clear	214	440	63°E	42°N
121	Albedo	Unclear	41	420	82°E	52°N
122	Albedo	Clear	141	172	83°E	52°N
123	Albedo	Unclear	315	349	85°E	54°N