

Table 1
Candidate pyroclastic deposits on Mercury.

No.	Site	Latitude	Longitude (east)	Area (km ²)	Measured radius (km)	Adjusted lunar radius (km)	Size class	Geologic setting	Pit length	Pit width	Pit morphology	Spectral signature
1	NE Rachmaninoff	35.8	63.8	19,466	71	164	Vlarge	Cratered highlands	31	16	Oval	Yes
2	RS-05	24.3	−179	10,414	54	125	Vlarge	Edge of Caloris basin			Uncertain	Yes
3	Hemingway	17.6	−2.7	8920	54	124	Vlarge	Crater floor			Uncertain	Yes
4	Hesiod a	−57.2	−31.7	4950	30	70	Vlarge	Crater edge			Not identified	Yes
5	RS-03	22.3	146.2	4063	24	56	Vlarge	Edge of Caloris basin	17	12	Rounded arcuate oval	Yes
6	RS-02	58.8	160.6	3951	23	53	Vlarge	Edge of Caloris basin	12	5	Pinched oval(s)	Yes
7	Lermontov NE	15.8	−48.2	3806	33	76	Vlarge	Crater floor	12	5	Highly irregular	Yes
8	Raphael	−21	−74.4	3240	30	70	Vlarge	Basin floor			Not identified	Yes
9	Lermontov SW	15.1	−49.1	3174	31	72	Vlarge	Crater floor	11	10.5	Highly irregular	Yes
10	To Ngoc Van	52.6	−111.8	2924	22	51	Vlarge	Crater floor	31	13	Rounded arcuate oval	Yes
11	Praxiteles NE	26.9	−59.1	2594	26	60	Vlarge	Crater floor	12	9	Quasi-circular	Yes
12	Scarlatti	41.3	−100.7	2490	22	51	Vlarge	Crater ring	43	14	Arcuate pinched oval	Yes
13	Hesiod c	−53.2	−30.9	2233	21	49	Vlarge	Crater edge			Not identified	Yes
14	Hesiod b	−55	−30	2079	19	45	Vlarge	Crater edge			Not identified	Yes
15	Gibran	35.8	−111.3	1852	22	52	Vlarge	Crater floor	32.2	28	Circular	No
16	Geddes	27.2	−29.5	1654	21	51	Vlarge	Crater floor	25.8	17	Rounded oval	Yes
17	Rachmaninoff SE	26.2	59.8	1389	20	50	Vlarge	Basin floor			Not identified	Yes
18	Mistral SE	4.2	−54.2	1245	19	46	Vlarge	Crater floor			Uncertain	Yes
19	Praxiteles SW	26	−60.3	1210	18	42	Vlarge	Crater ring	7	5	Rounded oval	Yes
20	RS-04b	16.7	156.9	1196	20	47	Vlarge	Edge of Caloris basin			Not identified	Yes
21	RS-04a	14.1	159.2	32	19	43	Vlarge	Edge of Caloris basin			Not identified	Yes
22	NE Derzhavin	48.4	−33.7	1111	15	38	Vlarge	Crater floor	17	6	Rounded oval	Yes
23	RS-04c	14.2	162.1	1048	19	43	Vlarge	Edge of Caloris basin			Not identified	Yes
24	Hesiod e	−51.5	−27.9	1021	14	32	Vlarge	Crater edge			Not identified	Yes
25	RS-01	−13.3	144.9	1008	18	43	Vlarge	Crater floor			Not identified	Yes
26	Unnamed crater 1	22	−67.5	921	17	40	Large	Crater floor	27	8	Arcuate	Yes
27	RS-04d	15	164	911	17	40	Large	Edge of Caloris basin	7	4	Circular (crater-like)	Yes
28	RS-03 SW	21.7	145.4	875	19	43	Large	Edge of Caloris basin			Uncertain	Marginal
29	Glinka	14.9	−112.4	846	16	38	Large	Crater floor	25	8	Arcuate	Yes
30	Melville	26.2	−4.2	746	17	41	Large	Crater edge			Uncertain	Yes
31	RS-04e	15.4	165.3	502	12	28	Large	Edge of Caloris basin	7	6	Circular (crater-like)	Yes
32	Hesiod d	−52.2	−28.6	453	9	20	Large	Crater edge			Not identified	Yes
33	Mistral NW	5.4	−55.2	421	11	35	Large	Crater floor	17	7	Pinched oval	Marginal
34	Beckett	−40	111.2	408	10	22	Large	Crater floor	38	9	Arcuate	Yes
35	RS-03 SE	19.4	150.2	317	7	26	Medium	Edge of Caloris basin	8	4	Pinched oval	No
	Unnamed crater 4	0.5	−161.9					Crater floor				Yes
	Pentas	3.45	50.4					Crater ring				Yes
	Unnamed crater 5a	−52.1	139.4					Crater floor				Yes
	Unnamed crater 5b	−55.1	142.5					Crater floor				Yes
	Unnamed crater 5c	−56.2	143.8					Inter crater area				Yes