

APPENDIX A.

The 1976 A.L.P.O. Catalog of Dark Haloed Craters

DHC xi eta	Selenographic Longitude	Selenographic Latitude	Location	Diameter of Crater	Diameter of Halo	Shape of Halo	DHC within 15 km. of Rill?
+838-355	+63° 38'	-20° 48'	-	8 km.	15 km.	C	N
+821-122	+55 15	-06 47	M	2	6 x 8	E	N
+790+251	+54 33	+14 32	M, P	25	37	C	Y
+774+227	+52 40	+13 10	M, P	14*	27 x 32	E	N
+760+313	+53 24	+18 15	M, P	18*	32 x 60	I	N
+757+331	+53 30	+19 22	M, P	10	15 x 20	E	N
+690-029	+43 50	-01 40	M, P	1.5*	14	C	N
+671-053	+02 02	-03 00	M, P	4	11	C	N
+556-317	+32 10	-18 32	M	5	10	C	N
+514-045	+29 08	-02 35	M	6	14	C	N
+500-196	+30 42	-11 18	M	2	6	C	N
+490+717	+44 35	+46 20	C, P	5.5 x 4	15	C	Y
+490-239	+30 20	-14 13	M, G	1*	4	C	N
+486-248	+30 04	-14 22	M, G	5*	15	I	N
+484+034	+28 55	+02 00	M	5*	20	I	N
+481-237	+29 40	-13 42	M, G	2	8	C	N
+480+814			C, G	1	4	C	N
+476+735	+44 35	+47 25	C, P	1.5 x 3	15	C	Y
+476+815			C, G	1.5 x 2.5	5	C	N
+473+816			C, G	1.5 x 3.5	5	C	N
+473+670	+39 40	+42 02	-	4	12	C	N
+412+709	+35 45	+45 07	M, G	4*	10	E	N
+407+708	+35 10	+45 05	M, G	2*	10	E	N
+392+707	+33 40	+45 02	M, G	4	15	I	Y
+353+017	+20 38	+01 00	M	3	10	C	N
+271+301	+16 37	+17 38	M, P	3*	5 x 8	E	Y
+256+306	+15 50	+17 50	M, P	2*	7	C	Y
+222+294	+13 21	+17 02	-	7	20	C	N
+172+229	+10 10	+13 16	M	2	7	C	N
+127+248	+07 32	+14 22	M, P	1.5	6	C	N
+125+259	+07 27	+15 02	M, P	2	5	C	N
+107+500	+07 08	+30 03	M, G	2	5	C	N
+087+513	+05 50	+30 53	M, G	3	12	C	N
+081+517	+05 25	+31 10	M, G	3	8 x 12	E	N
+073+510	+04 49	+30 42	M, G	4	14	C	Y
+066+553	+04 33	+33 37	M	5	11	C	N
+050+071	+02 54	+04 08	M, G	1	7	C	N
+041+069	+02 32	+03 52	M, G	0.5	3.5	C	N
+037+073	+02 13	+04 03	M, G	0.5	4	C	N
+037+078	+02 04	+04 28	M, G	0.5	2	C	N
+034+082	+01 52	+04 38	M, G	1	3	C	N
+033+076	+01 52	+04 20	M, G	2	4	C	N
-013+565	-01 55	+34 28	M	3	12	C	N
-025-235	-02 41	-13 18	C, G	1	8	C	Y
-027-223	-01 37	-12 52	C, G	3	10	C	Y
-028-217	-01 42	-13 14	C, G	2	7	C	Y
-032-248	-01 50	-14 22	C, G	3.5	11	C	Y
-033-216	-01 55	-12 33	C, G	2	7	C	Y
-057-238	-03 21	-12 47	C, G	1	5	C	Y
-069-235	-04 03	-13 40	C, G	2	8	C	N
-070-234	-04 07	-13 38	C, G	1	6	C	N

-071-237	-04 11	-13 43	C, G	2	8	C	N
-112-538	-07 32	-32 38	C	2*	6.5 x 5.5	C	N
-127+192	-08 05	+11 09	M	2	6	C	N
-137+314	-08 20	+18 20	M, G	7	16	C	N
-143+320	-08 40	+18 42	M, G	6	16	C	N
-150+335	-08 58	+19 30	M, G	1.5	3	C	N
-156-353	-09 33	-20 42	M	4	15	C	Y
-166+306	-10 05	+17 55	M, G	0.5	1.5	C	N
-180+299	-10 52	+17 30	M, G	4	7	C	Y
-180+308	-10 52	+18 00	M, G	4	8	C	Y
-186+146	-10 50	+08 22	M	2.5	7	C	N
-205+290	-12 25	+16 58	M, G	6	9	C	Y
-231+142	-12 28	+18 12	M	2	6	C	N
-231+199	-12 38	+11 33	C, P	1.5*	6	C	N
-237+199	-13 59	+11 30	C, P	2*	7 x 11	E	N
-261+421	-16 45	+25 06	M	2	4.5	C	N
-264+311	-16 03	+18 13	M	1.5	6	C	Y
-265+140	-16 01	+07 53	M	1.5	2 x 5	C	Y
-293+219	-17 32	+12 41	-	1*	6	C	Y
-312+120	-18 15	+06 53	-	4.5	15	C	Y
-348+218	-20 28	+12 28	-	2.5	10	E	N
-348+233	-23 38	+13 35	-	4	15	C	N
-398+083	-23 38	+01 45	M	1	4.5	C	N
-409+052	-24 33	+02 59	M	2*	10	E	N
-447+103	-26 41	+04 55	M	7	16	I	N
-457+078	-27 39	+04 30	M	2.5	7	C	N
-466+124	-28 01	+07 08	M	1.5*	9	C	N
-488-744	-46 48	-48 02	-	9	21	I	N
-500-726	-46 32	-46 27	-	3.5*	7	C	N
-575-695	-53 05	-44 00	C, G	4	11	I	N
-578-696	-53 39	-44 07	C, G	4	11	I	N
-659-700	-66 00	-44 00	-	5	14	C	N

NOTES:

The above table lists positional data of each DHC in terms of *xi* and *eta*, plus *selenographic longitude* and *selenographic latitude* (columns 1, 2, and 3). Note that *xi* and *selenographic longitude* is positive (+) toward the East, such as East (in the IAU sense) on the Moon is the hemisphere including Mare Crisium; *eta* and *selenographic latitude* are positive to the North. In column 4, the letter "M" designates that the DHC is located in one of the lunar maria, "C" indicates that the DHC is situated inside of a dark-floored crater, "G" signifies that the DHC is part of a local group of DHCs, and "P" means that the DHC is one of a pair of DHCs. Columns 5 and 6 list the diameter of the DHC in kilometers, but when a particular DHC is not located in the center of its surrounding halo, an asterisk (*) appears in Column 5 along with the dimension. In column 7, the letter "C" indicates that the perimeter of the halo is circular, "E" denotes an elliptical halo, and "I" refers to an irregular one. The last column uses "Y" or "N" to indicate whether the DHC is located in close proximity of a rill (less than 15 km. away).

APPENDIX B.

Kilometer Separations of Groups of Dark Haloed Craters

No. of DHCs in Group	DHC Group	Separation
2	+774+227 and +790+251	45 km.
2	+760+313 and +757+331	35 km.
2	+690-029 and +671-053	35 km.
2	+490+717 and +476+735 (in <i>Atlas</i>)	30 km.
3	+490-239, +486-248, and +481-237	10 and 20 km.
3	+480+814, +476+815, and +473+816	7 and 7 km.
3	+412+709, +407+708, and +392+707	12 and 40 km.
2	+127+249 and +125+259	20 km.
4	+107+500, +087+513, +081+517, and +073+510	10, 15, and 25 km.
6	+050+071, +041+069, +037+073, +037+078, +034+072, and +033+076	7 to 15 km.
7	-137+314, -143+320, -150+335, -166+306, -180+308, -205+290, and -180+299	15 to 50 km.
2	-231+199 and -237+199	8 km.
2	-575-695 and -578-696	10 km.
2	+256+306 and +271+301	36 km.
9	-025-235, -027-223, -028-218, -032-248, -033-216, -057-238, -069-235, -070-234, and -071-237 (all within <i>Alphonsus</i>)	10 to 50 km.