

FAR ENCOUNTER PHOTOREFERENCE TABLE

Scanned from *The Mariner 6 and 7 Pictures of Mars*, NASA SP 263, S.A. Collins, 1971 (pp. 152-155).
Mark Robinson, June 11, 1999

I noticed that the range to planet is 3393 km larger than those reported in the *NSSDC Publication 71-09 Data User's Note Mariner 6 and 7 Photographic Data*, March 1971. This discrepancy is equal to the radius of the planet thus I assume the range in this table (see below) is to the center of the planet, not the surface.

Picture number	Shutter direction	Range, km	Phase angle, °	Sub-spacecraft point		km/pixel
				Longitude °W	Latitude	
6F1	Bottom	1,244,221	21	100	-6	34.0
6F2	Bottom	1,228,388	21	109	-6	33.4
6F3	Bottom	1,212,556	21	117	-6	32.9
6F4	Bottom	1,196,724	21	126	-6	32.5
6F5	Top	1,180,281	21	136	-6	32.1
6F6	Top	1,164,448	21	145	-6	31.7
6F7	Top	1,148,615	21	153	-6	31.3
6F8	Top	1,132,782	21	162	-6	30.8
6F9	Bottom	1,116,342	21	172	-6	30.4
6F10	Bottom	1,100,507	21	181	-6	30.0
6F11	Bottom	1,083,790	21	190	-6	29.5
6F12	Top	1,068,232	21	199	-6	29.0
6F13	Top	1,052,399	21	208	-6	28.6
6F14	Top	1,036,568	21	217	-6	28.2
6F15	Top	1,020,733	21	226	-6	27.8
6F16	Bottom	1,004,291	21	235	-6	27.3
6F17	Bottom	988,457	21	244	-6	26.8
6F18	Bottom	972,624	21	253	-6	26.4
6F19	Top	956,181	21	262	-6	26.0
6F20	Top	940,347	21	271	-6	25.6
6F21	Top	924,514	21	280	-6	25.2
6F22	Top	908,679	21	289	-6	24.7
6F23	Bottom	892,236	21	298	-6	24.3
6F24	Bottom	876,402	21	307	-6	23.8
6F25	Bottom	860,568	21	316	-6	23.4
6F26	Bottom	844,733	21	325	-6	23.0
6F27	Top	828,289	21	334	-6	22.6
6F28	Top	812,455	21	343	-6	22.1
6F29	Top	796,619	21	352	-6	21.7
6F30	Bottom	780,175	21	1	-6	21.2
6F31	Bottom	764,339	21	10	-6	20.8
6F32	Bottom	748,454	21	19	-6	20.4
6F33	Bottom	732,667	21	28	-6	19.9
6F34	Bottom	568,196	21	120	-6	15.4
6F35	Bottom	540,171	21	136	-6	14.7
6F36	Top	512,753	21	151	-6	13.9
6F37	Top	484,723	21	167	-6	13.1
6F38	Bottom	457,301	21	182	-6	12.4
6F39	Bottom	429,267	21	198	-6	11.6
6F40	Bottom	401,840	21	213	-6	10.9
6F41	Bottom	401,231	21	214	-6	10.9

6F42	Bottom	376,849	21	227	-6	10.2
6F43	Bottom	352,463	21	241	-6	9.5
6F44	Bottom	328,075	21	255	-6	8.8
6F45	Top	304,293	21	268	-6	8.2
6F46	Top	279,898	21	282	-6	7.5
6F47	Top	255,498	21	295	-7	6.9
6F48	Top	231,092	21	309	-7	6.2
6F49	Top	206,680	21	322	-7	5.5
7F0	Top	1,844,034	22	50	-4	50.3
7F1	Bottom	1,720,371	22	121	-4	46.9
7F3	Top	1,697,072	22	134	-4	46.3
7F4	Bottom	1,685,722	22	141	-4	46.0
7F5	Top	1,674,371	22	147	-4	45.7
7F6	Bottom	1,663,021	22	154	-4	45.3
7F7	Top	1,651,670	22	160	-4	45.0
7F8	Bottom	1,640,320	22	167	-4	44.7
7F9	Bottom	1,628,371	22	173	-4	44.4
7F10	Top	1,617,023	22	180	-4	44.1
7F11	Bottom	1,605,671	22	186	-4	43.8
7F12	Top	1,594,321	22	193	-4	43.5
7F13	Bottom	1,582,971	22	199	-4	43.2
7F14	Top	1,571,621	22	206	-4	42.9
7F15	Top	1,559,673	22	213	-4	42.5
7F16	Bottom	1,548,323	22	219	-4	42.2
7F17	Top	1,536,973	22	226	-4	41.9
7F18	Bottom	1,525,623	22	233	-4	41.6
7F19	Top	1,514,167	22	239	-4	41.3
7F20	Bottom	1,502,923	22	246	-4	41.0
7F21	Bottom	1,490,977	22	252	-4	40.7
7F22	Top	1,479,626	22	259	-4	40.4
7F23	Bottom	1,468,279	22	265	-4	40.1
7F24	Top	1,453,533	22	272	-4	39.8
7F25	Bottom	1,445,577	22	278	-4	39.4
7F26	Top	1,433,630	22	285	-4	39.1
7F27	Top	1,422,281	22	292	-4	38.8
7F28	Bottom	1,410,931	22	298	-4	38.5
7F29	Top	1,399,581	22	305	-4	38.2
7F30	Bottom	1,388,233	22	311	-4	37.9
7F31	Top	1,376,882	22	318	-4	37.6
7F32	Top	1,364,937	22	325	-4	37.3
7F33	Bottom	1,353,586	22	331	-4	37.0
7F35	Bottom	1,199,474	23	60	-4	32.8
7F36	Top	1,184,540	23	68	-4	32.4
7F37	Top	1,169,009	23	77	-4	31.9
7F38	Bottom	1,154,076	22	86	-4	31.5
7F39	Bottom	1,138,545	22	95	-4	31.1
7F40	Top	1,123,613	23	103	-4	30.7
7F41	Top	1,108,081	23	112	-4	30.3
7F42	Top	1,092,551	23	121	-4	29.9
7F43	Bottom	1,077,617	23	130	-4	29.5
7F44	Bottom	1,062,086	23	139	-4	29.0
7F45	Top	1,047,152	23	147	-4	28.6
7F46	Top	1,031,621	23	156	-4	28.2

7F47	Bottom	1,016,687	23	165	-4	27.8
7F48	Bottom	1,001,156	23	174	-4	27.3
7F49	Bottom	985,625	23	183	-4	26.9
7F50	Top	970,691	23	191	-4	26.5
7F51	Top	955,160	23	200	-4	26.1
7F52	Bottom	940,225	23	209	-4	25.7
7F53	Bottom	924,693	23	218	-4	25.3
7F54	Top	909,759	23	226	-4	24.8
7F55	Top	894,227	23	235	-4	24.4
7F56	Top	878,695	23	244	-4	24.0
7F57	Bottom	863,760	23	253	-4	23.6
7F58	Bottom	848,227	23	261	-4	23.2
7F59	Top	833,292	23	270	-4	22.8
7F60	Top	817,760	23	279	-4	22.4
7F61	Bottom	803,248	23	287	-4	22.0
7F62	Bottom	787,291	23	296	-4	21.5
7F63	Top	772,355	23	305	-4	21.1
7F64	Top	756,821	23	314	-4	20.7
7F65	Top	741,287	23	323	-4	20.3
7F66	Bottom	726,351	23	331	-4	19.9
7F67	Bottom	710,816	23	340	-4	19.4
7F69	Bottom	535,132	23	81	-4	14.6
7F70	Bottom	514,811	23	93	-4	14.0
7F71	Top	495,087	23	104	-4	13.5
7F72	Top	474,764	23	116	-4	12.9
7F73	Bottom	455,037	23	127	-4	12.4
7F74	Top	435,309	23	138	-4	11.9
7F75	Top	414,982	23	150	-4	11.3
7F76	Bottom	395,251	23	161	-4	10.8
7F77	Bottom	374,920	23	173	-4	10.2
7F78	Top	355,185	23	184	-4	9.7
7F79	Bottom	335,449	23	195	-5	9.1
7F80	Bottom	315,112	23	207	-5	8.6
7F81	Top	295,370	23	218	-5	8.0
7F82	Bottom	275,625	22	230	-5	7.5
7F83	Bottom	255,279	22	241	-5	6.9
7F84	Top	235,527	22	252	-5	6.4
7F85	Top	215,173	22	264	-5	5.8
7F86	Bottom	195,412	22	275	-5	5.3
7F87	Top	175,645	22	286	-5	4.8
7F88	Top	155,273	22	298	-6	4.2
7F89	Top	150,478	22	300	-6	4.0
7F90	Bottom	145,084	22	304	-6	3.9
7F91	Bottom	140,288	22	306	-6	3.7
7F92	Top	134,892	22	309	-6	3.6
7F93	Top	130,095	22	312	-6	3.5

NOTE from below table on page 152.

6F1-33 and 7F0-67 are 480 pixels in width
6F34-49 and 7F69-93 are 900 pixels in width