



Figure 3. Geologic map of V-46 quadrangle showing major features (volcanic edifices, rifts, ridge belt, and a plateau). Copia, Knappe Mons, Merina Patera, and Janus Corona are also indicated. A, B, and C indicate sections of Janus Corona. P indicates northern end of Lada Terra. Features are color-coded as in the legend.

Figure 4. Plot showing relationship between Magellan albedo data and backscatter coefficient for units in V-46 quadrangle. Symbols are as in figure 3. Error bars represent 1-sigma uncertainty. Inset shows scatter plot of albedo vs. backscatter coefficient for units in V-46 quadrangle.

Figure 5. Magellan emissivity map of V-46 quadrangle. Much of the region has relatively uniform emissivity, with the exception of elevated values over rifts in the southwestern corner of the quadrangle.

**Table 1. Radar properties for units in V-46 quadrangle.**

Unit	Latitude	Longitude	RMS Slope (degrees)	Radar Reflectivity		Emissivity		Inc. angle (degrees)	Dichroism	Backscatter (dB)											
				Mean	Max	Mean	Max														
paA	-30	62	0.5	60.145	60.144	60.124	3.91	2.5	6.9	0.077	0.068	0.111	0.771	0.883	0.882	33	3.4	4.4	-9.64	-10.99	3.86
paB	-30	70	0.2	60.134	60.134	60.126	2.55	2.3	1.5	0.138	0.115	0.145	0.823	0.82	0.822	33	4.6	6	-12.77	-13.71	-2.13
paC	-46	74	0.5	60.212	60.184	60.228	3.51	2.1	5.3	0.079	0.061	0.11	0.868	0.868	0.872	25	3.9	4.6	-9.48	-10.46	3.86
paD	-46	80	0.5	60.187	60.187	60.222	2.23	1.2	0.12	0.12	0.115	0.135	0.868	0.862	0.862	33	4.2	5.2	-10.52	-10.96	-1.88
paE	-46	89	0.5	60.125	60.113	60.132	2.63	1.8	1.5	0.055	0.065	0.105	0.881	0.877	0.884	25	3.7	4.2	-8.48	-10.42	-4.36
paF	-46	93	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paG	-46	95	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paH	-46	97	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paI	-46	99	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paJ	-46	101	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paK	-46	103	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paL	-46	105	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paM	-46	107	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paN	-46	109	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paO	-46	111	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paP	-46	113	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paQ	-46	115	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paR	-46	117	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paS	-46	119	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paT	-46	121	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paU	-46	123	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paV	-46	125	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paW	-46	127	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paX	-46	129	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paY	-46	131	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paZ	-46	133	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAA	-46	135	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAB	-46	137	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAC	-46	139	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAD	-46	141	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAE	-46	143	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAF	-46	145	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAG	-46	147	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAH	-46	149	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAI	-46	151	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAJ	-46	153	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAK	-46	155	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAL	-46	157	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAM	-46	159	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAN	-46	161	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAO	-46	163	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAP	-46	165	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAQ	-46	167	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAR	-46	169	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAS	-46	171	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAT	-46	173	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02
paAU	-46	175	0.2	60.102	60.102	60.103	2.1	1.6	2.5	0.069	0.095	0.12	0.861	0.86	0.862	26	4.1	4.8	-11.04	-10.99	-2.02

**Table 2. Radar properties for units in V-46 quadrangle.**

Unit	Latitude	Longitude	RMS Slope (degrees)	Radar Reflectivity		Emissivity		Inc. angle (degrees)	Dichroism	Backscatter (dB)											
				Mean	Max	Mean	Max														
paA	-30	62	0.5	60.145	60.144	60.124	3.91	2.5	6.9	0.077	0.068	0.111	0.771	0.883	0.882	33	3.4	4.4	-9.64	-10.99	3.86
paB	-30	70	0.2	60.134	60.134	60.126	2.55	2.3	1.5	0.138	0.115	0.145	0.823	0.82	0.822	33	4.6	6	-12.77	-13.71	-2.13
paC	-46	74	0.5	60.212	60.184	60.228	3.51	2.1	5.3	0.079	0.061	0.11	0.868	0.868	0.872	25	3.9	4.6	-9.48	-10.46	3.86
paD	-46	80	0.5	6																	