U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared for the
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

TABLE 1. *Map unit radar properties.*

[Radar map properties derived using the Venus Ancillary Data Program (Campbell, 1994). Unit: Geologic map unit sampled. Location: Descriptive location of sample; for craters, note that interior or floor material was sampled, depending on the unit. Latitude: Measured in planetocentric latitude; southern latitudes are negative. Longitude: Measured in °, increasing to the east. Resolution: Image/pixel first and easternmost second; Inc.: Radar incidence angle; where two incidence angles are listed for a given location, radar data were available from Cycle 1 left-looking and Cycle 2 right-looking; note that only SAR echo changes as a function of incidence angle. Radius: Mean, minimum, and maximum planetary radius. SAR echo: Mean, minimum, and maximum SAR echo in dB (NA indicates that minimum values were not computed by the Ancillary Data Program and are not available). RMS Slope: RMS meter-scale slope in degrees. Reflectivity: Fresnel reflectivity expressed as the power reflection coefficient. Emiss.: Microwave emissivity. ε_r: Probable extreme dielectric constant for a smooth surface. ε_r: Probable extreme dielectric constant for a rough surface]

Unit	Location	Latitude	Longitude	Res. (km)	SAR Echo	RMS Slope	Reflectivity	Emiss.	ε_r	ε_r
b	middle	–43.08 –43.16	22.27 22.46	26	6051.917 6051.68 6052.076	–3.655 NA –0.123	5 4.1 5.6	0.116 0.1 0.13	0.852 0.849 0.856	4.2, 5
b	middle	–43.08 –43.16	22.27 22.46	25		–5.599 –16.007 –2.715				
b	north	–38.48 –38.54	15.00 15.22	28	6052.045 6051.86 6052.189	–8.495 –10.337 –7.205	4.95 3.6 5.8	0.104 0.085 0.125	0.867 0.863 0.871	3.8, 4.6
b	north	–38.48 –38.54	15.00 15.22	25		–8.491 –10.503 –7.122				
b	south	–48.70 –48.75	27.54 27.64	24	6051.898 6051.876 6051.943	–7.73 –11.306 –4.552	4.33 4 4.6	0.095 0.09 0.1	0.888 0.886 0.89	3.5, 4
b	south	–48.70 –48.75	27.54 27.64	25		–5.68 –12.847 –3.109				
cg	Muriel	–41.69 –41.71	12.35 12.40	27	6052.187 6052.142 6052.227	–9.827 –11.498 –8.624	2.65 2.2 3.1	0.082 0.075 0.09	0.849 0.848 0.85	4.3, 5.1
cr	Muriel	–41.69 –41.71	12.35 12.40	25		–9.58 –14.983 –7.246				
cr	Sophia	–28.60 –28.64	18.82 18.85	34	6051.731 6051.715 6051.747	–13.859 –19.891 –11.427	1.95 1.7 2.2	0.104 0.1 0.105	0.848 0.847 0.858	3.7, 4.8
cg	Zenobia	–29.31 –29.36	28.62 28.70	33	6051.206 6051.181 6051.278	–11.007 –12.163 –10.096	2.59 2.1 3	0.11 0.1 0.115	0.87 0.868 0.871	3.4, 4.4
cf	Muriel	–41.71 –41.73	12.52 12.56	27	6052.354 6052.317 6052.392	–6.009 –7.462 –4.922	3.3 3.3 3.3	0.09 0.085 0.095	0.85 0.85 0.85	4.3, 5.1
cf	Muriel	–41.71 –41.73	12.52 12.56	25		–5.527 –25.592 –0.54				
cf	Stuart	–30.56 –30.61	20.19 20.35	32	6051.069 6051.045 6051.101	–8.294 –9.702 –7.232	1.74 1.5 2.1	0.162 0.13 0.22	0.729 0.707 0.751	7.4, 10
cf	Zenobia	–29.03 –29.09	28.66 28.76	33	6051.825 6051.815 6051.857	–10.046 –10.677 –7.864	1.25 1.1 1.7	0.082 0.08 0.095	0.863 0.863 0.868	3.5, 4.6
fCT	N	–35.09 –35.20	3.78 3.92	30	6051.777 6051.748 6051.873	–9.286 –10.601 –8.278	3.15 2.9 3.3	0.075 0.07 0.08	0.865 0.863 0.866	3.7, 4.6
fCT	S	–38.40 –38.61	0.31 0.69	28	6051.628 6051.597 6051.668	–11.634 –13.153 –10.51	2.36 2.6 2.7	0.135 0.12 0.16	0.865 0.863 0.866	3.8, 4.6
fCT	mid	–35.73 –35.78	19.50 19.60	30	6051.983 6051.963 6051.991	–12.014 –13.478 –10.714	2.6 2.3 3	0.143 0.14 0.145	0.831 0.831 0.831	4.6, 5.7
fE	E	–40.06 –40.29	21.43 22.00	27	6051.787 6051.717 6051.855	–10.281 –12.183 –8.987	3.12 2.2 4.2	0.135 0.1 0.15	0.836 0.829 0.842	4.6, 5.6
fE	E	–40.06 –40.29	21.43 22.00	25		–10.271 –12.269 –8.908				
fE	W	–38.08 –38.15	0.58 0.73	28	6051.561 6051.524 6051.639	–7.935 –8.937 –7.121	3.39 3 3.7	0.098 0.095 0.1	0.876 0.873 0.879	3.6, 4.3
fE	mid	–37.85 –37.92	8.23 8.61	29	6051.959 6051.937 6051.983	–8.366 –9.402 –7.53	3.33 3.7 4.6	0.113 0.09 0.13	0.853 0.85 0.854	4.1, 5
fN	N	–38.17 –38.28	23.20 23.42	28	6052.453 6052.317 6052.612	–10.254 –11.648 –9.299	2.74 2.4 3.1	0.095 0.07 0.125	0.858 0.856 0.859	4, 4.9
fN	N	–38.17 –38.28	23.20 23.42	25		–9.26 –10.563 –8.259				
fNP	NE	–36.07 –36.19	26.46 26.91	29	6052.021 6051.967 6052.133	–12.348 –13.669 –11.337	3.07 2.7 3.8	0.109 0.095 0.12	0.854 0.852 0.859	4, 5
fNP	Pachamama	–35.69 –35.74	21.57 21.66	30	6051.768 6051.722 6051.838	–12.867 –14.136 –11.887	2.4 2.2 2.7	0.116 0.11 0.125	0.844 0.843 0.844	4.2, 5.3
fNP	SE	–38.64 –38.84	25.07 25.53	28	6052.021 6051.989 6052.047	–9.667 –10.634 –8.876	3.06 2.5 3.8	0.195 0.15 0.24	0.808 0.805 0.818	5.3, 6.5
fNP	SE	–38.64 –38.84	25.07 25.53	25		–8.706 –9.958 –7.735				
fP	P	–35.89 –35.93	21.36 21.42	30	6051.78 6051.717 6051.843	–9.429 –11.005 –8.274	2.73 2.2 3.2	0.105 0.095 0.115	0.843 0.842 0.844	4.3, 5.3
fS	W	–42.49 –42.54	27.82 27.99	26	6052.008 6051.984 6052.02	–8.299 –9.72 –7.121	4.85 3.6 6.2	0.182 0.16 0.235	0.835 0.829 0.84	4.7, 5.6
fS	W	–42.49 –42.54	27.82 27.99	25		–9.657 –11.418 –8.407				
fSI	E	–42.65 –42.77	28.59 28.86	26	6051.968 6051.944 6051.977	–8.229 –9.672 –7.121	2.1 2 2.2	0.139 0.13 0.15	0.807 0.804 0.812	5.5, 6.6
fSI	E	–42.65 –42.77	28.59 28.86	25		–9.657 –11.418 –8.407				
fSI	N	–42.49 –42.52	3.84 3.89	26	6051.718 6051.655 6051.756	–12.645 –13.742 –11.769	3.07 2.9 3.3	0.145 0.145 0.152	0.853 0.852 0.854	4.2, 5
fSI	S	–44.12 –44.18	5.16 5.26	26	6052.724 6052.573 6052.976	–12.369 –14.085 –11.142	3.59 3.4 3.8	0.124 0.115 0.13	0.864 0.863 0.864	4.4, 4.7
fSI	S	–39.32 –39.35	15.22 13.26	28	6052.362 6052.349 6052.375	–11.401 –12.335 –10.633	1.35 1.3 1.4	0.166 0.155 0.175	0.855 0.818 0.82	5.6, 6.1
fSMa	N	–42.21 –42.69	26.26 27.45	26	6051.979 6051.928 6052.02	–10.567 –11.59 –9.74	2.44 1.6 3.1	0.133 0.11 0.17	0.851 0.793 0.824	5.5, 6.7
fSMa	N	–42.21 –42.69	26.26 27.45	25		–10.663 –11.983 –9.653				
fSMa	S	–43.83 –44.00	26.37 27.04	26	6051.914 6051.875 6051.956	–10.688 –11.683 –9.905	2.19 1.8 2.8	0.096 0.09 0.1	0.854 0.847 0.864	4.2, 5
fSMa	S	–43.83 –44.00	26.37 27.04	25		–10.692 –11.97 –9.705				
fSMa	flow/lump?	–40.86 –41.00	21.32 21.61	27	6051.712 6051.678 6051.743	–10.653 –11.7 –9.81	2.2 1.7 2.6	0.136 0.125 0.1	0.817 0.813 0.824	5.1, 6.2
fSMa	flow/lump?	–40.86 –41.00	21.32 21.61	25		–10.583 –11.899 –9.574				
fUA	E	–48.62 –49.12	27.77 28.81	24	6051.75 6051.69 6051.785	–4.926 –5.771 –4.05	5.55 3.8 9.1	0.093 0.07 0.17	0.898 0.892 0.902	3.3, 3.7
fUA	E	–48.62 –49.12	27.77 28.81	25		–6.468 –6.917 –4.384				
fUA	W	–48.92 –49.08	18.13 18.53	24	6051.591 6051.565 6051.612	–14.619 –15.681 –13.766	1.15 0.9 1.5	0.153 0.12 0.235	0.839 0.836 0.841	4.8, 5.5
fUA	mid	–47.41 –47.50	23.44 23.90	24	6052.351 6052.279 6052.406	–9.562 –10.475 –8.809	2.07 1.6 2.4	0.138 0.13 0.15	0.821 0.819 0.823	5.2, 6.1
fUA	mid	–47.41 –47.50	23.44 23.90	25		–10.664 –11.993 –9.646				
pd	E	–39.91 –40.26	27.79 28.27	27	6052.136 6052.097 6052.2	–11.505 –12.741 –10.544	1.79 1.2 2.4	0.115 0.095 0.135	0.831 0.815 0.842	4.7, 5.7
pd	E	–39.91 –40.26	27.79 28.27	25		–11.294 –12.504 –10.181				
pd	Kaiwan	–46.54 –46.80	358.98 359.19	24	6050.665 6050.6 6050.688	–9.73 –12.198 –7.977	1.93 1.2 3.1	0.099 0.085 0.12	0.865 0.859 0.871	4, 4.7
pd	Kaiwan	–46.54 –46.80	358.98 359.19	25		–10.998 –14.301 –9.143				
pd	Vaddivlute	–37.66 –38.03	14.06 14.41	29	6051.8 6051.77 6051.856	–9.455 –15.663 –12.775	2.41 1.7 2.9	0.103 0.075 0.13	0.871 0.862 0.881	3.7, 4.4
pd	Vaddivlute	–37.66 –38.03	14.06 14.41	25		–13.564 –15.218 –12.485				
pp	Carpo	–37.36 –37.41	3.52 3.72	29	6051.812 6051.531 6052.178	–8.347 –10.515 –6.908	4.29 3.6 4.9	0.083 0.075 0.09	0.881 0.866 0.896	3.5, 4.2
pp	Selu	–42.54 –42.59	6.05 6.16	26	6052.35 6052.23 6052.595	–12.967 –14.361 –11.914	4.4 4.1 5.1	0.079 0.07 0.09	0.862 0.861 0.864	4, 4.7
pp	Tyche	–43.44 –43.49	16.52 16.72	26	6052.184 6052.102 6052.251	–8.315 –9.589 –7.332	4.23 3.7 4.5	0.09 0.055 0.06	0.884 0.884 0.885	3.5, 4.1
pp	Tyche	–43.44 –43.49	16.52 16.72	25		–9.209 –10.935 –7.977				
pp	Dumont	–35.06 –35.15	11.03 11.13	30	6051.926 6051.793 6052.007	–9.552 –11.017 –8.459	2.78 2.2 3.4	0.1 0.095 0.105	0.857 0.855 0.859	3.8, 4.8
pp	Dorothy	–35.06 –35.15	11.03 11.13	30	6051.141 6051.085 6051.884	–9.332 –13.91 –11.13	3.1 0.9 4.4	0.088 0.075 0.095	0.876 0.855 0.888	3.9, 4.9
pp	Holiday	–46.80 –46.89	10.55 10.68	24	6052.113 6051.94 6052.263	–11.681 NA –6.14	2.27 1.6 3.3	0.105 0.125 0.135	0.845 0.845 0.851	4.5, 5.2
pp	Holiday	–46.80 –46.89	10.55 10.68	25		–11.696 NA –8.728				
pr	Alpha-N	–27.03 –27.12	4.68 4.85	34	6052.195 6052.123 6052.277	–12.112 –13.632 –10.989	2.39 2.2 2.8	0.077 0.07 0.085	0.869 0.867 0.87	3.4, 4.5
pr	Alpha-S	–29.44 –29.51	5.07 5.24	33	6052.358 6052.275 6052.415	–10.955 –12.37 –9.825	3.1 2.7 3.7	0.111 0.1 0.105	0.833 0.829 0.837	4.2, 5.6
pr	Tyche	–44.20 –44.22	13.78 13.90	26	6051.674 6051.644 6051.687	–11.329 –12.542 –10.265	1.07 1 1.2	0.05 0.05 0.08	0.899 0.898 0.9	3.2, 3.7
pr	Tyche	–44.20 –44.22	13.78 13.90	25		–11.556 –13.956 –11.705				
pr	Alpha	–31.44 –31.55	5.12 5.32	32	6051.851 6051.803 6051.899	–12.589 –13.748 –11.573	2.26 2.1 2.5	0.074 0.07 0.075	0.887 0.884 0.89	3.2, 4
pr	E	–33.22 –33.44	7.25 7.84	31	6051.069 6051.737 6051.974	–8.294 –14.544 –11.545	1.74 0.9 1.7	0.162 0.095 0.14	0.729 0.839 0.844	7.4, 10
pr	mid	–34.17 –34.29	7.61 7.76	30	6051.877 6051.804 6051.92	–10.046 –14.296 –12.597	1.25 0.5 1.5	0.082 0.085 0.105	0.863 0.848 0.851	4, 5.1
pr	Dorothy	–37.29 –37.9	10.97 11.61	29	6051.782 6051.713 6051.821	–17.761 –18.808 –16.919	0.95 0.4 1.3	0.122 0.07 0.18	0.845 0.839 0.851	4.3, 5.3
pr	Dorothy	–37.29 –37.31	10.97 11.61	25		–17.404 –18.452 –16.382				
pr	N	–33.49 –33.82	13.13 13.53	31	6051.857 6051.803 6051.983	–19.626 –20.896 –18.835	1.27 0.7 1.6	0.111 0.08 0.125	0.854 0.854 0.859	3.9, 4.9
pr	Ninhu	–39.47 –39.65	22.95 23.31	25	6051.903 6051.869 6051.918	–22.123 –23.076 –11.342	2.29 1.7 2.6	0.151 0.125 0.175	0.816 0.813 0.824	5.1, 6.2
pr	Ninhu	–39.47 –39.65	22.95 23.31	25		–10.271 –12.269 –8.908				
pr	–corona feature	–30.29 –30.34	9.50 9.59	33	6051.719 6051.705 6051.735	–7.935 –15.184 –10.148	3.39 1.7 2.1	0.098 0.09 0.09	0.876 0.843 0.844	3.6, 4.3
pr	SW	–44.29 –44.82	4.85 5.14	25	6051.959 6051.937 6051.983	–8.366 –9.402 –7.53	3.33 3.7 4.6	0.113 0.09 0.13	0.853 0.85 0.854	4, 4.6
pr	Stuart	–28.93 –29.09	20.62 20.81	33	6051.752 6051.711 6051.804	–20.408 –21.778 –19.492	1.13 0.8 1.4	0.127 0.095 0.145	0.858 0.855 0.861	3.7, 4.8
pr	Woolf	–38.14 –38.21	27.42 27.61	26	6051.986 6051.969 6052.006	–11.841 –12.491 –9.299	2.48 1.5 3.1	0.122 0.095 0.135	0.858 0.857 0.859	4, 4.8
pr	Woolf	–38.14 –38.21	27.42 27.61	25		–9.26 –10.563 –8.259				
pNP	NE	–36.07 –36.19	26.46 26.91	29	6052.021 6051.967 6052.133	–12.348 –13.669 –11.337	3.07 2.7 3.8	0.109 0.095 0.12	0.854 0.852 0.859	4, 5
pNP	Pachamama	–35.69 –35.74	21.57 21.66	30	6051.768 6051.722 6051.838	–12.867 –14.136 –11.887	2.4 2.2 2.7	0.116 0.11 0.125	0.844 0.843 0.844	4.2, 5.3
pNP	SE	–38.64 –38.84	25.07 25.53	28	6052.021 6051.989 6052.047	–9.667 –10.634 –8.876	3.06 2.5 3.8	0.195 0.15 0.24	0.808 0.805 0.818	5.3, 6.5
pNP	SE	–38.64 –38.84	25.07 25.53	25		–8.706 –9.958 –7.735				
pP	P	–35.89 –35.93	21.36 21.42	30	6051.78 6051.717 6051.843	–9.429 –11.005 –8.274	2.73 2.2 3.2	0.105 0.095 0.115	0.843 0.842 0.844	4.3, 5.3
pS	W	–42.49 –42.54	27.82 27.99	26	6052.008 6051.984 6052.02	–8.299 –9.72 –7.121	4.85 3.6 6.2	0.182 0.16 0.235	0.835 0.829 0.84	4.7, 5.6
pS	W	–42.49 –42.54	27.82 27.99	25		–9.657 –11.418 –8.407				
pSI	E	–42.65 –42.77	28.59 28.86	26	6051.968 6051.944 6051.977	–8.229 –9.672 –7.121	2.1 2 2.2	0.139 0.13 0.15	0.807 0.804 0.812	5.5, 6.6
pSI	E	–42.65 –42.77	28.59 28.86	25		–9.657 –11.418 –8.407				
pSI	N	–42.49 –42.52	3.84 3.89	26	6051.718 6051.655 6051.756	–12.645 –13.742 –11.769	3.07 2.9 3.3	0.145 0.145 0.152	0.853 0.852 0.854	4.2, 5
pSI	S	–44.12 –44.18	5.16 5.26	26	6052.724 6052.573 6052.976	–12.369 –14.085 –11.142	3.59 3.4 3.8	0.124 0.115 0.13	0.864 0.863 0.864	4.4, 4.7
pSI	S	–39.32 –39.35	15.22 13.26	28	6052.362 6052.349 6052.375	–11.401 –12.335 –10.633	1.35 1.3 1.4	0.166 0.155 0.175	0.855 0.818 0.82	5.6, 6.1
pSMa	N	–42.21 –42.69	26.26 27.45	26	6051.979 6051.928 6052.02	–10.567 –11.59 –9.74	2.44 1.6 3.1	0.133 0.11 0.17	0.851 0.793 0.824	5.5, 6.7
pSMa	N	–42.21 –42.69	26.26 27.45	25		–10.663 –11.983 –9.653				
pSMa	S	–43.83 –44.00	26.37 27.04	26	6051.914 6051.875 6051.956	–10.688 –11.683 –9.905	2.19 1.8 2.8	0.096 0.09 0.1	0.854 0.847 0.864	4.2, 5
pSMa	S	–43.83 –44.00	26.37 27.04	25		–10.692 –11.97 –9.705				
pSMa	flow/lump?	–40.86 –41.00	21.32 21.61	27	6051.712 6051.678 6051.743	–10.653 –11.7 –9.81	2.2 1.7 2.6	0.136 0.125 0.1	0.817 0.813 0.824	5.1, 6.2
pSMa	flow/lump?	–40.86 –41.00	21.32 21.61	25		–10.583 –11.899 –9.574				
pUA	E	–48.62 –49.12	27.77 28.81	24	6051.75 6051.69 6051.785	–4.926 –5.771 –4.05	5.55 3.8 9.1	0.093 0.07 0.17	0.898 0.892 0.902	3.3, 3.7
pUA	E	–48.62 –49.12	27.77 28.81	25		–6.468 –6.917 –4.384				
pUA	W	–48.92 –49.08	18.13 18.53	24	6051.591 6051.565 6051.612	–14.619 –15.681 –13.766	1.15 0.9 1.5	0.153 0.12 0.235	0.839 0.836 0.841	4.8, 5.5
pUA	mid	–47.41 –47.50	23.44 23.90	24	6052.351 6052.279 6052.406	–9.562 –10.475 –8.809	2.07 1.6 2.4	0.138 0.13 0.15	0.821 0.819 0.823	5.2, 6.1
pUA	mid	–47.41 –47.50	23.44 23.90	25		–10.664 –11.993 –9.646				
pd	E	–39.91 –40.26	27.79 28.27	27	6052.136 6052.097 6052.2	–11.505 –12.741 –10.544	1.79 1.2 2.4	0.115 0.095 0.135	0.831 0.815 0.842	4.7, 5.7
pd	E	–39.91 –40.26	27.79 28.27	25		–11.294 –12.504 –10.181				
pd	Kaiwan	–46.54 –46.80	358.98 359.19	24	6050.665 6050.6 6050.688	–9.73 –12.198 –7.977	1.93 1.2 3.1	0.099 0.085 0.12	0.865 0.859 0.871	4, 4.7
pd	Kaiwan	–46.54 –46.80	358.98 359.19	25		–10.998 –14.301 –9.143				
pd	Vaddivlute	–37.66 –38.03	14.06 14.41	29	6051.8 6051.77 6051.856	–9.455 –15.663 –12.775	2.41 1.7 2.9	0.103 0.075 0.13	0.871 0.862 0.881	3.7, 4.4
pd	Vaddivlute	–37.66 –38.03	14.06 14.41	25		–13.564 –15.218 –12.485				
pp	Carpo	–37.36 –37.41	3.52 3.72	29	6051.812 6051.531 6052.178	–8.347 –10.515 –6.908	4.29 3.6 4.9	0.083 0.075 0.09	0.881 0.866 0.896	3.5, 4.2
pp	Selu	–42.54 –42.59	6.05 6.16	26	6052.35 6052.23 6052.595	–12.967 –14.361 –11.914	4.4 4.1 5.1	0.079 0.07 0.09	0.862 0.861 0.864	4, 4.7
pp	Tyche	–43.44 –43.49	16.52 16.72	26	6052.184 6052.102 6052.251	–8.315 –9.589 –7.332	4.23 3.7 4.5	0.09 0.055 0.06	0.884 0.884 0.885	3.5, 4.1
pp	Tyche	–43.44 –43.49	16.52 16.72	25		–9.209 –10.935 –7.977				
pp	Dumont	–35.06 –35.15	11.03 11.13	30	6051.926 6051.793 6052.007	–9.552 –11.017 –8.459	2.78 2.2 3.4	0.1 0.095 0.105	0.857 0.855 0.859	3.8, 4.8
pp	Dorothy	–35.06 –35.15	11.03 11.13	30	6051.141 6051.085 6051.884	–9.332 –13.91 –11.13	3.1 0.9 4.4	0.088 0.075 0.095	0.876 0.855 0.888	3.9, 4.9
pp	Holiday	–46.80 –46.89	10.55 10.68	24	6052.113 6051.94 6052.263	–11.681 NA –6.14	2.27 1.6 3.3	0.105 0.125 0.135	0.845 0.845 0.851	4.5, 5.2
pp	Holiday	–46.80 –46.89	10.55 10.68	25		–11.696 NA –8.728				
pr	Alpha-N	–27.03 –27.12	4.68 4.85	34	6052.195 6052.123 6052.277	–12.112 –13.632 –10.989	2.39 2.2 2.8	0.077 0.07 0.085	0.869 0.867 0.87	3.4, 4.5
pr	Alpha-S	–29.44 –29.51	5.07 5.24	33	6052.358 6052.275 6052.415	–10.955 –12.37 –9.825	3.1 2.7 3.7	0.111 0.1 0.105	0.833 0.829 0.837	4.2, 5.6
pr	Tyche	–44.20 –44.22	13.78 13.90	26	6051.674 6051.644 6051.687	–11.329 –12.542 –10.265	1.07 1 1.2	0.05 0.05 0.08	0.899 0.898 0.9	3.2, 3.7
pr	Tyche	–44.20 –44.22	13.78 13.90	25		–11.556 –13.956 –11.705				
pr	Alpha	–31.44 –31.55	5.12 5.32	32	6051.851 6051.803 6051.899	–12.589 –13.748 –11.573	2.26 2.1 2.5	0.074 0.07 0.075	0.887 0.884 0.89	3.2, 4
pr	E	–33.22 –33.44	7.25 7.84	31	6051.069 6051.737 6051.974	–8.294 –14.544 –11.545	1.74 0.9 1.7	0.162 0.095 0.14	0.729 0.839 0.844	7.4, 10
pr	mid	–34.17 –34.29	7.61 7.76	30	6051.877 6051.804 6051.92	–10.046 –14.296 –12.597	1.25 0.5 1.5	0.082 0.085 0.105	0.863 0.848 0.851	4, 5.1
pr	Dorothy	–37.29 –37.9	10.97 11.61	29	6051.782 6051.713 6051.821	–17.761 –18.808 –16.919	0.95 0.4 1.3	0.122 0.07 0.18	0.845 0.839 0.851	4.3, 5.3
pr	Dorothy	–37.29 –37.31	10.97 11.61	25		–17.404 –18.452 –16.382				
pr	N	–33.49 –33.82	13.13 13.53	31	6051.857 6051.803 6051.983	–19.626 –20.896 –18.835	1.27 0.7 1.6	0.111 0.08 0.125	0.854 0.854 0.859	3.9, 4.9
pr	Ninhu	–39.47 –39.65	22.95 23.31	25	6051.903 6051.869 6051.918	–22.123 –23.076 –11.342	2.29 1.7 2.6	0.151 0.125 0.175	0.816 0.813 0.824	5.1, 6.2
pr	Ninhu	–39.47 –39.65	22.95 23.31	25		–10.271 –12.269 –8.908				
pr	–corona feature	–30.29 –30.34	9.50 9.59	33	6051.719 6051.705 6051.735	–7.935 –15.184 –10.148	3.39 1.7 2.1	0.098 0.09 0.09	0.876 0.843 0.844	3.6, 4.3
pr	SW	–44.29 –44.82	4.85 5.14	25	6051.959 6051.937 6051.983	–8.366 –9.402 –7.53	3.33 3.7 4.6	0.113 0.09 0.13	0.853 0.85 0.854	4, 4.6
pr	Stuart	–28.93 –29.09	20.62 20.81	33	6051.752 6051.711 6051.804	–20.408 –21.778 –19.492	1.13 0.8 1.4	0.127 0.095 0.145	0.858 0.855 0.861	3.7, 4.8
pr	Woolf	–38.14 –38.21	27.42 27.61	26	6051.986 6051.969 6052.006	–11.841 –12.491 –9.299	2.48 1.5 3.1	0.122 0.095 0.135	0.858 0.857 0.859	4, 4.8
pr	Woolf	–38.14 –38.21	27.42 27.61	25		–9.26 –10.563 –8.259				
pNP	NE	–36.07 –36.19	26.46 26.91	29	6052.021 6051.967 6052.133	–12.348 –13.669 –11.337	3.07 2.7 3.8	0.109 0.095 0.12	0.854 0.852 0.859	4, 5
pNP	Pachamama	–35.69 –35.74	21.57 21.66	30	6051.768 6051.722 6051.838	–12.867 –14.136 –11.887	2.4 2.2 2.7	0.116 0.11 0.125	0.844 0.843 0.844	4.2, 5.3
pNP	SE	–38.64 –38.84	25.07 25.53	28	6052.021 6051.989 6052.047	–9.667 –10.634 –8.876	3.06 2.5 3.8	0.195 0.15 0.24	0.808 0.805 0.818	5.3, 6.5
pNP	SE	–38.64 –38.84	25.07 25.53	25		–8.706 –9.958 –7.735				
pP	P	–35.89 –35.93	21.36 21.42	30	6051.78 6051.717 6051.843	–9.429 –11.005 –8.274	2.73 2.2 3.2	0.105 0.095 0.115	0.843 0.842 0.844	4.3, 5.3
pS	W	–42.49 –42.54	27.82 27.99	26	6052.008 6051.984 6052.02	–8.299 –9.72 –7.121	4.85 3.6 6.2	0.182 0.16 0.235	0.835 0.829 0.84	4.7, 5.6
pS	W	–42.49 –42.54	27.82 27.99	25		–9.657 –11.418 –8.407				
pSI	E	–42.65 –42.77	28.59 28.86	26	6051.968 6051.944 6051.977	–8.229 –9.672 –7.121	2.1 2 2.2	0.139 0.13 0.15	0.807 0.804 0.812	5.5, 6.6
pSI	E	–42.65 –42.77	28.59 28.86	25		–9.657 –11.418 –8.407				
pSI	N	–42.49 –42.52	3.84 3.89	26	6051.718 6051.655 6051.756	–12.645 –13.742 –11.769	3.07 2.9 3.3	0.145 0.145 0.152	0.853 0.852 0.854	4.2, 5
pSI	S	–44.12 –44.18	5.16 5.26	26	6052.724 6052.573 6052.976	–12.369 –14.085 –11.142	3.59 3.4 3.8	0.124 0.115 0.13	0.864 0.863 0.864	4.4, 4.7
pSI	S	–39.32 –39.35	15.22 13.26	28	6052.362 6052.349