



Mars Exploration Rover

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Site Ellipse Summary

- Update -

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October 5, 2001



ROTO Sites and Elysium Flow



Mars Exploration Rover

Site	Planetocentric Latitude [deg.]	East Longitude [deg.]	MER-A Open Total Downtrack [km]	MER-A Open Total Crosstrack [km]	MER-A Open Azimuth [deg.]	MER-A Close Total Downtrack [km]	MER-A Close Total Crosstrack [km]	MER-A Close Azimuth [deg.]
Isidis IP85A	4.62	85.21	132	16	88	127	17	85
Hematite TM9A	-1.2	354.23	119	17	84	114	17	81
Hematite TM10A	-2.2	353.23	119	17	84	113	17	81
Gale EP82A	-5.76	137.66	108	18	81	106	18	79
Melas VM53A	-8.68	282.07	103	18	80	100	19	78
Eos VM41A	-13.2	318.46	98	19	78	103	19	75
Gusev EP55A	-14.67	175.75	96	19	76	103	19	74

Site	Planetocentric Latitude [deg.]	East Longitude [deg.]	MER-B Open Total Downtrack [km]	MER-B Open Total Crosstrack [km]	MER-B Open Azimuth [deg.]	MER-B Close Total Downtrack [km]	MER-B Close Total Crosstrack [km]	MER-B Close Azimuth [deg.]
Isidis IP98B	4.55	84.01	140	16	91	133	17	86
Hematite TM19B	-1.2	354.53	119	18	87	112	18	82
Hematite TM20B	-1.98	353.82	117	18	86	112	19	82
Melas B Site	-8.68	282.07	105	20	82	103	20	79
Elysium Flow EP49B	9.16	155.47	152	16	95	148	17	89



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Approximate Dimensions as a function of Latitude, based on Curve Fits using ROTO Site Data

Uncertainties ~ +/- 5 km Downtrack, +/- 1 km Crosstrack, +/- 1 deg Azimuth

	Planetocentric Latitude [deg.]	E. Longitude [deg.]	Mission	Open Tot Downtrack [km]	Open Tot Crosstrack [km]	Open Azimuth [deg.]	Close Tot Downtrack [km]	Close Tot Crosstrack [km]	Close Azimuth [deg.]
Hematite									
TM11A	-3.4	352.94	A	114	17	83	109	18	80
TM22B	-3.4	352.64	B	116	18	85	110	19	81
TM12A	-3.6	356.94	A	113	17	83	109	18	80
TM23B	-3.1	356.73	B	116	18	85	110	19	81
TM21B	-2.5	356.54	B	118	18	86	112	18	82
NE Valles Marineris Outflow									
VM37A	-10.925	321.84	A	101	18	78	102	18	76
Meridiani Highlands									
TM13A	-2.95	349.81	A	115	17	83	110	18	81
TM24B	-2.77	349.71	B	117	18	86	111	19	81
Meridiani Crater									
TM15A	-8.5	352.72	A	104	18	80	103	18	78
TM16A	-9.25	353.06	A	103	18	79	103	18	77
EP69A Crater									
EP69A	-9.08	150.299	A	104	18	79	103	18	77
Central Valles Marineris									
VM44A	-12.93	297.399	A	98	19	77	102	19	75
Boedickker Crater									
EP64A	-15.11	162.45	A	95	19	76	103	19	74
Isidis Planitia Sites									
IP84A	4.41	87.98	A	133	16	88	127	17	85
IP96B	4.38	88.28	B	136	16	91	129	17	86