

## MSL Landing Sites to Be Discussed at the Second Landing Site Workshop, v. 4

LANDING SITES FROM 1 <sup>ST</sup> MSL WORKSHOP DISCUSSED AT 2 <sup>ND</sup> WORKSHOP				
NAME	LOCATION	ELEVATION	TARGET	PROPOSER
Nili Fossae Trough	20.93°N, 74.35°E	-0.6 km	Phyllosilicates	J. Mustard
Holden Crater Fan	26.32°S, 325.30°E	-2.3 km	Layered Materials	Irwin, Grant, Malin, Edgett, Rice
Terby Crater	27.7435°S, 74.1137°E	-5 km	Layered Material	S. Wilson, Cohen, Dobrea
Marwth Vallis	24.65°N, 340.1°E	~-3.1 km	Phyllosilicates	J-P Bibring, J. Michalski
Eberswalde Crater	23.85°S, 326.75°E	-1.4 km	Delta	J. Schieber, J. Dickson, J. Rice
Gale Crater	4.50°S, 137.35°E	-4.5 km	Interior Layered Deposits	J. Bell, N. Bridges
W Candor	5.80°S, 284.17°E	1.8 km	Sulfate Deposits	N. Mangold
N Meridiani	2.37°N, 6.69°E	-1.5 km	Sedimentary Layers	Edgett/Malin
Juventae Chasma	4.45°S, 298.09°E	-2.8 km	Layered Sulfates	J. Grotzinger
Nilo Syrtis	29.16°N, 72.97°E	~-0.5	Phyllosilicates	J. Mustard
Melas Chasma	9.81°S, 283.62°E	-1.9 km	Paleolake	C. Quantin
E. Meridiani	0.01N°, 3.66°E	~-1.3 km	Sedimentary Layers	B. Hynek
Iani Chaos	2.06°S, 342.41°E	Below -2 km	Hematite, Sulfate	T. Glotch
Nili Fossae Crater	18.44°N, 77.58°E	-2.6 km	Valley Networks, Delta sediments	R. Harvey, J. Rice
Eos Chasma	10.7°S, 322.05°E	~-4 km	Chert	V. Hamilton
Meridiani Crater Lake	5.72°N, 358.03°E	~-1.5 km	Crater lake sediments	L. Posiolova
NE Syrtis Major	~16.21°N, ~76.63°E	~1 km	Volcanics	R. Harvey
Hellas/Dao Vallis	39.5°S, 82,7°E	-6 km	Valley Terminus, Layered Deposits	L. Crumpler
Xanthe/Hypanis Vallis	11.4°N, 314.65°E	-2.6 km	Layered Deposits	L. Crumpler
SW Arabia Terra	6.01°N, 355.60°E	-1 km	Sed. Rocks, Methane	C. Allen
W. Arabia Crater	8.45°N, 359.09°E	-1.2 km	Sedimentary Rocks	E. Heydari
W. Meridiani	1.7°S, 352.39°E	~-1.0 to -1.5 km	Sediments, Hematite	H. Newsom
Elysium/Avernus Colles	3.05°S, 170.60°E	-2.5 km	High iron abundance	L. Crumpler
Isidis Basin Escarp	18.00°N, 79.60°E	-3.5 km	Volatile sink	L. Crumpler
Additional Sites Proposed After 1 <sup>st</sup> Workshop				
Samara Vallis	23.55°S, 339.75°E	-1 km	Valley network channel	R. Kuzmin
Eos Alluvial	13.6°S, 317.5°E	-3.5 km	Alluvial fan	R. Kuzmin
Aeolis fan delta	5.05°S, 132.85°E	-2.2 km	Fan, delta	R. Kuzmin

27 sites from 1<sup>st</sup> Workshop or After

**LANDING SITES ADDED BEFORE 2<sup>nd</sup> MSL WORKSHOP**

<b>Name</b>	<b>Location</b>	<b>Elevation (m)</b>	<b>Target</b>	<b>Proposer</b>
Ariadnes Colles	35.03 S, 174.17 E	-71	Clay-bearing outcrops	E. Noe Dobrea
Ritchey Crater	28.28 S, 308.93 E	-1178	Clays, fan deposit	R. Milliken
Mawrth Vallis B1	24.5 N, 338.9 E	-3076	layered clays	J-P. Bibring
Mawrth Vallis B2	23.95 N, 341.2 E	-2220	layered clays	Bibring
Mawrth Vallis B3	23.2 N, 342.5	-2104	layered clays	Bibring
Nili Fossae	21.8 N, 78.6 E	-1158	Clays, mafics	Mangold
Terby alternate	27.4 S, 73.5 E	-4509	clays, possible paleolacustrine	E. Noe Dobrea, S. Wilson
Nili Fossae trough alternate	21.73 N, 74.73 E	-695	clays, mafics	Mustard, Elhman Wiseman, Arvidson
S. Meridiani Clays	3.35 S, 352.64 E	-1948	clays, sulfates	Ollila, Newsome
W. Meridiani Alt	3.01 S, 352.1 E	-1881	clays, sulfates	
Chloride site 1	11.4 S, 343.4 E	-1473	chloride salts	Christensen
Chloride site 2	31.5 S, 180.8 E	1388	chloride salts	Christensen
Chloride site 3	27.9 S, 339.1 E	-44	chloride salts	Christensen
Chloride site 4	25.4 S, 346.6 E	-41	chloride salts	Christensen
Chloride site 5	34.36 S, 177.76 E	1373	chloride salts	Christensen
W. Candor				
Chasma alternate	5.75 S, 285.19 E	-1517	sulfates	Murchie
Tiu Valles	22.9N, 32.25W	~<-3000	Chemolithotrophic habitat	F. Gomez
Gale alternate	5.66 S, 137.53 E	-3385	Interior Layered Deposits	N. Bridges, B. Thomson
Juventae alternate	4.88 S, 297.01 E	-2600	Layered sulfates	J. Bishop
Meridiani B1	3.84 N, 359.04 E			Bibring
Meridiani B2	1.60 N, 3.55 E			Bibring
Meridiani B3	3.19 S, 352.20 E		Same as S, Meridiani Clays	Bibring
Meridiani B4	5.0 S, 354.52 E			Bibring
N. Meridiani Alternate	1.5 N, 357.4 E		Sedimentary Layers	Malin, Edgett
24 Sites				