

Summary MSL Landing Site Criteria

Major Questions/ Criteria:

Landing Sites:

Science Criteria

<i>Nili Fos</i>	<i>Hol den</i>	<i>Ter by</i>	<i>Maw rth</i>	<i>Gale</i>	<i>Ebers walde</i>	<i>W. Cand</i>	<i>N. Merid</i>	<i>Juven</i>	<i>Nilo Syrt</i>	<i>Mel as</i>	<i>E. Merid</i>	<i>Iani</i>	<i>Nili Crat</i>	<i>Eos</i>	<i>Merid Crat</i>
---------------------	--------------------	-------------------	--------------------	-------------	------------------------	--------------------	---------------------	--------------	----------------------	-------------------	---------------------	-------------	----------------------	------------	-----------------------

Ability to Assess Biological
Potential w/MSL Payload
Evidence for Habitable
Environment (Environment of Formation and Deposition)
Aqueous Environment, Type of Habitable Environment
Preservation of Bio-
Signatures
Organic Material, (Pre) Biotic Materials,
Biologic Textures, Mineralogic Biosignatures

Ability to Characterize
Geology/Geochemistry
Context within Geologic
Timescale
Context within Geologic/
Geomorphic/
Stratigraphic Setting

Accessibility
Accessed by Rover/Arm
Go To
Distance/trafficability
to Materials of Interest
<1 km, <5 km, >10 km
Dust Obscuration

Reduced Performance
Thermal Constraints

**Major Questions/
Criteria:**

Landing Sites:

Safety Criteria

<i>Nili Fos</i>	<i>Hol den</i>	<i>Ter by</i>	<i>Maw rth</i>	<i>Gale</i>	<i>Ebers walde</i>	<i>W. Cand</i>	<i>N. Merid</i>	<i>Juven</i>	<i>Nilo Syrt</i>	<i>Mel as</i>	<i>E. Merid</i>	<i>Iani</i>	<i>Nili Crat</i>	<i>Eos</i>	<i>Merid Crat</i>
---------------------	--------------------	-------------------	--------------------	-------------	------------------------	--------------------	---------------------	--------------	----------------------	-------------------	---------------------	-------------	----------------------	------------	-----------------------

Surface Slope/Relief
2-10 km Slope
1-2 km Slope
200-1000 m Slope
2-5 m Slope
Relief in HiRISE

Warning Track Slope
2-10 km Slope

Flexibility Ellipse
Placement

Safe Haven? (non go to)

Rock Abundance
IRTM
TES
Rocks Present in HiRISE

Load Bearing Surface

Dust (DCI, Albedo)

Cold Temperatures

Trafficability

Atmospherically
Challenging Site