

PRELIMINARY PROGRAM
FIRST LANDING SITE WORKSHOP FOR THE 2003 MARS EXPLORATION ROVERS
January 24–25, 2001 • NASA Ames Research Center, Mountain View, California

To view a particular abstract, use the hand tool of your Reader to click on the title of a presentation. Presentations shown without an abstract number in brackets do not have an accompanying abstract.

Wednesday, January 24, 2001
WORKSHOP INTRODUCTION
AND MISSION OVERVIEW
8:30 a.m.

- Chairs:** **J. Grant and M. Golombek**
- 8:30 David Morrison
Welcome and Announcements
- 8:45 John Grant and Matthew Golombek
Overview of the Process of Site Selection
- 9:00 Mark Adler
MER Mission Overview
- 9:15 Steven Squyres
The Athena Science Payload for the 2003 Mars Exploration Rovers
- 9:30 Joy Crisp
Expected Science Return from MER Missions
- 9:45 Ralph Roncoli
Mission Engineering Constraints
- 10:00 Matthew Golombek
Engineering Constraints and Remote Sensing
- 10:15 Timothy Parker
MOC Imaging During MGS Extended Mission
- 10:30–10:45 a.m. COFFEE BREAK**

OVERVIEW OF LANDING SITE SCIENCE PRIORITIES
10:45 a.m.

- Chairs:** **J. Grant and M. Golombek**
- 10:45 Jakosky B. M. * Golombek M. P.
Broad Perspectives on Mars Landing Site Selection: Geological Factors from Centimeter to Kilometer Scales [#9004]
- 11:05 Tanaka K. L. * Crumpler L. S. Gilmore M. S. Noreen E. Hare T. M. Skinner J. A.
Scientific Rationale for Mars Exploration Rovers A and B Landing Sites: Our Biased View [#9021]
- 11:25 Farmer J. * Nelson D. Greeley R. Kuzmin R.
Mars 2003: Site Priorities for Astrobiology [#9038]
- 11:45 a.m.–1:00 p.m. LUNCH BREAK**

THE HEMATITE SITE

1:00 p.m.

Chairs: W. Hartmann and B. Hynek

- 1:00 Christensen P. R. * Bandfield J. Hamilton V. Ruff S. Morris R. Lane M. Malin M.
The TES Hematite-rich Region in Sinus Meridiani; a Proposed Landing Site for the 2003 Rover [#9007]
- 1:20 Noreen E. * Tanaka K. L. Chapman M. G.
TES Hematite Landing Sites in Sinus Meridiani for 2003 Mars Exploration Rover [#9014]
- 1:40 Allen C. C. * Westall F. Schelble R. T.
Exobiology at Sinus Meridiani -- 2003 and Beyond [#9006]
- 2:00 Hynek B. M. * Arvidson R. E. Phillips R. J. Seelos F. P. IV
Terra Meridiani Hematite Deposit Landing Site Rationale [#9028]
- 2:20 Gilmore M. S. * Tanaka K. L.
Potential Noachian-aged Sites for MER-B [#9029]
- 2:40 Barlow N. G. *
Potential MER Landing Sites in the Terra Meridiani and Valles Marineris Regions of Mars [#9015]
- 3:00 Duxbury T. C. * Ivanov A. B.
MOLA-based Landing Site Characterization [#9025]
- 3:20 Hartmann W. K. *
Recent Results from Mars Global Surveyor Affecting Landing Site Selection and Habitats for Past or Present Biological Activity [#9019]

3:40–3:55 p.m. COFFEE BREAK

- 3:55–4:45 Jack Farmer and Philip Christensen
Discussion of Landing Site Priorities and the Hematite Site

INTRODUCTION TO POSTERS

4:45 p.m.

Chairs: J. Bishop and M. Urquhart

Each presenter will be allotted 3 minutes to introduce their poster.

- Arvidson R. E.
Results from FIDO Prototype Mars Rover Field Trials [#9010]
- Bishop J. L.
Mineralogy Considerations for 2003 MER Site Selection and the Importance for Astrobiology [#9011]
- Duxbury T. C.
A New Era in Geodesy and Cartography: Implications for Landing Site Operations [#9009]
- Anderson R.
MER Site Characterization using MOC and MOLA Data
- Head J.
MOLA Data and Landing Site Selection

Fisk M. R.

Submarine Volcanic Landforms and Endolithic Microorganisms [#9024]

Gulick V. C. Dearth D. G. Briggs G. A.

A Virtual Web Environment for Mars Landing Site Studies [#9023]

Haldemann A.

GSSR Delay-Doppler Data for MER Landing Sites

Hare T. M. Tanaka K. L. Skinner J. A.

Planetary GIS on the Web for the MER 2003 Landers [#9020]

Hauber E. Neukum G. Behnke T. Jaumann R. Pischel R. Hoffmann H. Oberst J. HRSC Science Team

MER 2003 Operations Support and Landing Site Characterization by Mars Express HRSC/SRC Imaging Data [#9013]

Morris R. V. Bell J. F. III

Hubble Space Telescope Visible to Near-IR Imaging and Spectroscopy of Mars in Support of Future Landing Site Selection [#9039]

Urquhart M. L. Gulick V. C.

Lander Detection and Identification of Hydrothermal Deposits [#9031]

5:15–6:15 p.m.

POSTER SESSION AND RECEPTION

Includes GIS/Web demos by Gulick and Hare et al.

Thursday, January 25, 2001
SURFACE DUST AND ROCKS
8:30 a.m.

Chairs: S. Ruff and D. Kass

8:30 Jakosky B. M. * Mellon M. T. Pelkey S. M.
Physical Properties of Potential Mars Landing Sites from MGS TES-derived Thermal Inertia [#9003]

8:50 Golombek M. P. * Jakosky B. M. Mellon M. T.
Thermal Inertia of Rocks and Rock Populations and Implications for Landing Hazards on Mars [#9017]

9:05 Golombek M. P. *
Extreme Rock Distributions on Mars and Implications for Landing Safety [#9016]

9:15 Ruff S. W. * Christensen P. R.
A Spectrally-based Global Dust Cover Index for Mars from Thermal Emission Spectrometer Data [#9026]

9:35 Kass D. M. * Schofield J. T.
Atmospheric Constraints on Landing Site Selection [#9037]

9:55–10:10 a.m. COFFEE BREAK

LANDING SITES RELATED TO CRATER LAKES
AND AQUEOUS SETTINGS
10:10 a.m.

Chairs: H. Newsom and N. Bridges

10:10 Cabrol N. A. * Grin E. A.
Exploring Impact Crater Paleolakes in 2003 [#9005]

10:30 Bridges N. T. *
Assessing Layered Materials in Gale Crater [#9033]

10:50 Newsom H. E. *
Impact Crater Landing Sites for the 2003 Mars Explorer Rovers — Accessing Lacustrine and Hydrothermal Deposits [#9008]

11:10 Nelson D. M. * Farmer J. D. Greeley R. Kuzmin R. O. Klein H. P.
Durius Valles Outflow Basin, Mars: Proposed Site for MER-A [#9034]

11:30 De Hon R. A. *
MER 2003 Landing Site Proposal: Amazonian Lacustrine Materials [#9036]

11:50–12:05 Richard Morris and Bruce Jakosky
Summary Discussion

12:05–1:20 p.m. LUNCH BREAK

**LANDING SITES IN ISIDIS, APOLLINARIS, AND ELYSIUM
1:20 p.m.**

Chairs: L. Crumpler and A. McEwen

- 1:20 Crumpler L. S. * Tanaka K. L. Hare T. M.
Analysis of Potential MER Sites in the Southern Isidis Region [#9027]
- 1:40 Gulick V. C. *
Potential Mars Exploration Rover Landing Sites West and South of Apollinaris Patera [#9032]
- 2:00 McEwen A. * Lanagan P. Beyer R. Keszthelyi L. Burr D.
Potential 2003 Landing Sites in the Cerberus Plains, SE Elysium Planitia [#9022]

2:20–2:35 p.m. COFFEE BREAK

**LANDING SITES IN VALLES MARINERIS
2:35 p.m.**

Chairs: N. Mangold and J. Rice

- 2:35 Weitz C. M. * Parker T. J. Anderson F. S.
Potential MER Landing Site in Melas Chasma [#9018]
- 2:55 Mangold N. * Costard F. Masson P. Peulvast J.-P.
Melas Chasma: Major Scientific Opportunity for MER 2003 [#9001]
- 3:15 Kuzmin R. O. Greeley R. * Nelson D. M. Farmer J. D. Klein H. P.
Eos Chasma as a Potential Site for the MER-A Landing [#9030]
- 3:35 Rice J. W. Jr.*
Ganges Chasma Landing Site: Access to Layered Mesa Material, Wall Rock, and Sand Sheet [#9002]
- 3:55–4:15 Ginny Gulick and Roger Phillips
Summary Discussion
- 4:15–6:15 Mike Carr and George McGill
Developing a Community Consensus on Targets

Adjourn