

First Landing Site Workshop: Possible Joint Rover 2018 Landing Sites

Wednesday, February 29, 2012:

Workshop Starts at 8:30 am

Introduction (1 hour)

Michael Meyer and Jorge Vago
Welcome (15 mins)

Rich Zurek (15 mins)
Imaging candidate landing site using orbital assets

John Grant
Introduction and Goals of the Workshop (15 mins)

Matt Golombek
Imaging of End-2-End MEPAG SAG Reference Landing Sites (15 mins)

9:30 am Candidate Landing Sites in the Chasmata (45 minutes, 15 minutes each talk):

Rebecca M. E. Williams and C. M. Weitz
A 2018 Rover Mission to Aqueous Deposits in the Melas Chasma Basin

Cathy Quantin
The First GY of Martian History and Its Diverse Environments Exposed in Coprates Chasma, Valles Marineris

Cathy Weitz
Juventae Chasm and Ladon Basin

10:15 am Sedimentary Rocks and Rocks at Candidate Landing Sites (45 minutes, 15 minutes each talk):

Ernst Hauber and Laetitia Le Deit
Sedimentary and possible volcanic materials at a landing site in Xanthe Terra

Monica Pondrelli
Landing Sites at Firsoff Crater (with notes on Holden Crater)

Graziella Caprarelli
Landing in Schiaparelli Crater

11:00 am Discussion (30 Minutes)

Lunch (11:30 to 12:30)

12:30 pm Geochemical Indicators at Candidate Landing Sites (1 hour, 45 minutes, 15 minutes each talk):

Joe Michalski

Should the Deep Crust be our Primary Astrobiological Target for Mars? Observations from Leighton Crater and Other Sites

Bill Farrand, Jim Rice, and Eldar Noe Dobrea

Exploring the Mawrth Vallis Stratigraphy South of 20N

Joe Michalski

Fe-Mg clays, Al-clays, and sulfates in the northern Mawrth Vallis Region

John Mustard, Bethany Ehlmann, J. R. Skok, Dave Des Marais, Nicolas Mangold, and Francois Poulet
Nili Fossae Trough

Janice L. Bishop, Daniela Tirsch, and Livio Tornabene

Analysis of Phyllosilicate-bearing outcrops and their relationship to olivine- and pyroxene-bearing rocks at a proposed landing site at Libya Montes.

John Mustard, Bethany Ehlmann, J. R. Skok, Dave Des Marais, Nicolas Mangold, and Francois Poulet
Northeast Syrtis

Harold Clenet

Carbonate-bearing crustal exposure in an impact crater associated with an outflow channel south-east of Eos Mensa

2:15 pm Discussion (30 minutes)

2:45 pm Possible Hydrothermal and Ice Indicators at Landing Sites (1 hour, 15 minutes, 15 minutes each)

Eldar Noe Dobrea

Hydrothermal Alteration in the NW Hellas Region

Jim Rice

The Silica-Rich hydrothermal Deposits of the Columbia Hills

Matt Smith

Potential Future Landing Site in Quartz and Hydrated-Silica Bearing Terrain Near Antoniadi Crater

Graziella Caprarelli

A Candidate Landing Site in Cerberus Palus

Jennifer Heldmann, L. R. Schumeier, M. Wilhelm, C. Stoker, C. McKay, A. Davila, M. Marinova, J. Karcz, and H. Smith

Characterization of a mid-latitude ice-rich landing site on Mars to enable in situ habitability studies

4:00 pm Discussion (30 minutes)

4:30 pm Overall Discussion and Ranking of High vs. Low Priority Sites (30 minutes)

5:00 pm End of Workshop