

First Landing Site Workshop: Possible Joint Rover 2018 Landing Sites

Wednesday, February 29, 2012:

Workshop Starts at 8:30 am

Introduction (1 hour, 30 minutes)

Michael Meyer and Jorge Vago

Welcome and Status of the Possible 2018 Joint Rover Program (15 mins)

John Grant

Introduction and Goals of the Workshop (15 mins)

Mike Wilson, Charles Whetsel

Possible 2018 Joint Rover Concept (20 mins)

Dave Beaty, Abby Allwood

Science Objectives and Samples for the Possible 2018 Joint Rover (20 mins)

Matt Golombek

MSL/Possible Joint Rover Engineering Constraints and Tentative Site Selection Schedule (20 mins)

10:00 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

10:45 am Sedimentary Rocks and Rocks at Candidate Landing Sites (1 Hour, 15 minutes each talk):

Ernst Hauber and Laetitia Le Deit

Sedimentary and possible volcanic materials at a landing site in Xanthe Terra

John Bridges

Landing at Trouvelot Crater

Monica Pondrelli

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

Graziella Caprarelli

Landing in Schiaparelli Crater

11:45 am Discussion (20 Minutes)

Lunch (12:05 to 1:05)

1:05 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

2:50 pm Discussion (20 minutes)

3:10 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

4:25 pm Discussion (20 minutes)

4:45 pm Overall Discussion and Ranking of High vs. Low Priority Sites (30 minutes)

5:15 pm End of Workshop