

A banner for the Mars Exploration Program Analysis Group (MEPAG). The background is a dark blue, textured surface, possibly a Mars crater, with a large, reddish-orange planet (Mars) visible on the right side. The text is white and bold.

Mars Exploration Program Analysis Group (MEPAG)

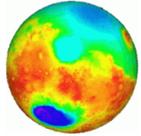
chartered by NASA HQ to assist in planning the scientific exploration of Mars

A wide-angle photograph of the Mars surface. The foreground is a dark, rocky, and dusty terrain. The horizon is a straight line, and the sky is a dark, clear blue with several small, bright white stars visible.

MEPAG Meeting of July 29, 30 2009

Jack Mustard, *MEPAG Chair*

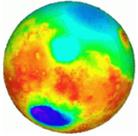
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Developments in Mars Exploration Since March MEPAG Meeting



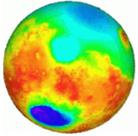
- Mars Science Laboratory (MSL) continues development and is retiring risk
- Mars Atmosphere and Volatile Evolution Mission (MAVEN) is beginning development as the 2013 Scout mission (B. Jakosky PI)
- ESA and NASA have been involved in detailed discussions of a future program together
- The Decadal Survey has formally been launched, all panels identified



Impacts to the MEP of MSL Slip



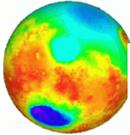
- Significant changes in anticipated budgets from a couple of years ago from a) declines in NASA funding for exploration and b) cost growth of MSL
- MSL's 2 year delay is estimated to cost \approx \$400 million and will impact the MEP
 - Technology development funds
 - Funds for mission in 2016 launch window
 - Capabilities of missions beyond 2016
- Significant moment in time for the MEP, MEPAG, and the Mars community to affirm its science priorities



Goals for this Meeting



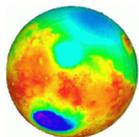
- Update the community on progress in the exploration of Mars including NASA, European Space Agency
- Evaluate and provide input to ongoing activities and SAGs
 - Network SAG, Mid-Range Rover SAG
 - Trace Gas Orbiter (Joint between NASA-ESA)
- Significant inputs to the Decadal Survey
 - Community White Paper Presentations and Discussion
 - MEPAG-led White Papers
- Initiate activities from MEPAG to develop positions and inputs to future MEP and Decadal Survey activities



Agenda for MEPAG meeting of July 29, 2009



08:00 AM	00:15	Welcome; MEPAG Purpose, Scope, Expected Results	J. Mustard
08:15 AM	00:45	Mars Program Director's Comments	D. McCuiston
09:00 AM	00:30	MSL status	M. Meyer
09:30 AM	00:30	ESA's Mars Exploration Activities	M. Coradini
10:00 AM	00:15	Break	
10:15 AM	00:15	Introduction to Mars inputs to the DS	M. Meyer
10:30 AM	00:15	MEPAG Goals summary	J. Johnson
10:45 AM		Reports on Mission Planning Activity	
10:45 AM	00:30	<i>2016 Trace Gas Orbiter</i>	R. Zurek, A. Chicarro
11:15 AM	00:30	<i>Mars Network SAG</i>	B. Banerdt, T. Spohn
11:45 AM	01:30	Lunch	
01:15 PM	02:00	<i>MRR-SAG</i>	L. Pratt
03:15 PM	00:15	Break	
03:30 PM	00:30	Decadal Survey Process	D. Smith/P. Christensen
04:00 PM		Community White Papers	
04:00 PM	00:05	Introduction to the white papers	J. Mustard
04:05 PM	00:20	Ionosphere of Mars	P. Withers
04:25 PM	00:30	Landing site characterization program/MSL landing site updat	daGrant/M. Golombek
		Top research priorities for the Mars Polar Energy Balance	
04:55 PM	00:00	Cycle	T. Titus
04:55 PM	00:00	Mars Polar Science	M. Hecht
04:55 PM	00:10	Day 1 wrap-up	J. Mustard
05:05 PM		Adjourn	



MEPAG Agenda, Day 2



08:00 AM	00:10	Recap of yesterday and goals for today	J. Mustard
08:10 AM		Community White Papers	
08:10 AM	00:20	The Value of Landed Meteorological Investigations on Mars	Mark Rafkin
08:30 AM	00:20	Mars Atmospheric Science	M. Mischna
08:50 AM	00:20	Mars Exploration 2016-2032: Rationale and Principles Strategic Program	J. Bell
09:10 AM	00:10	Community white paper wrap-up	J. Mustard
09:20 AM	00:15	Break	
09:35 AM		Proposed MEPAG white Papers for the Decadal Survey	
09:35 AM	01:45	Mars state of knowledge, how things have changed since DS, objectives and strategies for the next planning period	J. Mustard
11:20 AM	00:30	Mars Technologies	S. Hayati
11:50 AM	01:30	Lunch	
01:20 PM	00:30	Mars Program Implementation: Balancing science direction engineering/budget constraints	F. Li
01:50 PM	01:00	Discussion	J. Mustard
02:50 PM	00:10	Future Planning for MEPAG Activities	J. Mustard
03:00 PM		Adjourn	

<i>The following Decadal Survey white papers are print-only</i>			
		Astrobiology Print only	J. Farmer
		Mars Crustal Magnetism and Dynamo History Print only	R. Lillis
		Mars Sample Return Reference Period Print Only	R. Mattingly/K. Buxbaum
		In-situ Geochronology Print Only	P. Conrad

Endorsement of Mars White Papers

- The DS has called for white papers of relevance to planetary exploration
 - The involvement of multiple members of the community in each white paper is encouraged to reflect important consensus positions;
 - Format and limitations (up to 7 pages plus cover) are on DS website
- It is most appropriate to list as authors the folks who have substantively contributed to a document's formulation
- Proposed process for community endorsement:
 - Some formal MEPAG white papers will be presented under the authorship of the MEPAG Chair on behalf of the entire organization.
 - *These will be discussed at this meeting*
 - For Mars white papers, members of the community are invited to sign up as “endorsers”. The endorsement list will be carried on the cover sheets of the various white papers.
 - The MEPAG web site (<http://mepag.jpl.nasa.gov/decadal/index.html>) will be used to help make white papers under preparation available to the community, and to facilitate the mechanics of identifying endorsers, and making them known to the authors.
 - *For credibility, please read the paper (not just title!) before endorsing*