

Compiled Bibliographic Citations and Acronym Glossary for the Mars-Related White Papers Submitted to the NRC's Planetary Decadal Survey

September 15, 2009

This document lists the references cited for the following documents:

1. Banerdt, B., T. Spohn, U. Christensen, V. Dehant, L. Elkins-Tanton, R. Grimm, M. Grott, R. Haberle, M. Knapmeyer, P. Lognonné, F. Montmessin, Y. Nakamura, R. Phillips, S. Rafkin, P. Read, G. Schubert, S. Smrekar, M. Wilson (2009), *The Rationale for a Long-Lived Geophysical Network Mission to Mars*, 7 p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
2. Borg, L., C. Allen, D. Beaty, K. Buxbaum, J. Crisp, D. Des Marais, D. Glavin, M. Grady, K. Herkenhoff, R. Mattingly, S. McLennan, D. Moura, J. Mustard, L. Pratt, S. Symes, and M. Wadhwa (2009). *A Consensus Vision for Mars Sample Return*, 7p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
3. Edwards, C. D. Jr., W. B. Banerdt, D. W. Beaty, L. K. Tamppari, and R. W. Zurek (2009). "Relay Orbiters for Enhancing and Enabling Mars *In Situ* Exploration", 7 p. White Paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
4. Hayati, S., M. Munk, D. Powell, B. Gershman, Y. Lin, K. Buxbaum, P. Backes, S. Gorevan, D. Stephenson, D. Anderson, J. Dankanich, C. Allen, D. Pearson, T. Rivellini, I. Nesnas, G. Bolotin, C. Budney, A. Wolf, and J. Riedel (2009), *Strategic Technology Development for Future Mars Missions (2013-2020)*, 7-p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
5. MEPAG (2009a), *Why Mars Remains a Compelling Target for Planetary Exploration*, J.S. Mustard, ed., 7 p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
6. MEPAG (2009b), *Seeking Signs of Life on a Terrestrial Planet: An Integrated Strategy for the Next Decade of Mars Exploration*, J.S. Mustard, ed., 7 p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
7. Pratt, L.M., and the MEPAG MRR-SAG team (2009). *Mars Astrobiology Explorer-Cacher (MAX-C): A Potential Rover Mission for 2018*, 7 p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.
8. Smith, M.D., M. Allen, D. Banfield, J. R. Barnes, R. T. Clancy, P. James, J. Kasting, P. Wennberg, D. Winterhalter, M. Wolff, and R. Zurek (2009), *MARS TRACE GAS MISSION: Scientific Goals and Measurement Objectives*, 7 p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.

All of the above documents have also been posted Sept., 2009 by the Mars Exploration Program Analysis Group (MEPAG) at <http://mepag.jpl.nasa.gov/decadal/index.html>, and may be accessed there.

This document is posted on the MEPAG web site, and may be referenced using the following web link: <http://mepag.jpl.nasa.gov/decadal/index.html>.

COMPILED BIBLIOGRAPHIC CITATIONS

- 1. Banerdt et al. (2009), The Rationale for a Long-Lived Geophysical Network Mission to Mars, 7 p. white paper submitted Sept. 15, 2009 to the National Research Council's 2009 Planetary Decadal Survey.**

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ACRONYM GLOSSARY

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| AGU | American Geophysical Union |
| AO | Announcement of Opportunity |
| AOES | Advanced Operations and Engineering Services |
| APXS | Alpha Particle X-ray Spectrometer |
| AR-MSR | Astrobiology-Relevant - Mars Sample Return |
| AU | Astronomical Unit |
| CAPTEM | Curation and Analysis Planning Team for Extraterrestrial Materials |
| CCSDS | Consultative Committee for Space Data Systems |
| CDR | Critical Design Review |
| CRISM | Compact Reconnaissance Imaging Spectrometers for Mars |
| D/H ratio | deuterium to hydrogen ratio |
| DSN | Deep Space Network |
| DSP | |
| DTE | Direct-To-Earth |
| DTN | Delay Tolerant Networking |
| EDL | Entry, Decent, Landing |
| EEV | Earth Entry Vehicle |
| EGU | European Geosciences Union |
| EM | Electromagnetic |
| EPSC | European Planetary Science Congress |
| ESA | European Space Agency |
| ESTRACK | European Space Tracking |
| EVA | Extravehicular Activity |
| EXM | ExoMars |
| ExoMars | Exobiology in Mars |
| GB-MSR | Ground-breaking - Mars Sample Return |
| GDS | Geomagnetic Depth Sounding |
| GPR | Ground Penetrating Radar |
| HiRISE | High Resolution Imaging Science Experiment |
| ILN | International Lunar Network |
| iMARS | international Mars Architecture for the Return of Samples |
| ISRU | In Situ Resource Utilization |
| JGR | Journal of Geophysical Research |
| JPL | Jet Propulsion Laboratory |
| LIBS | Laser-Induced Breakdown Spectroscopy |
| LPSC | Lunar and Planetary Science Conference |
| MAHLI | Mars Hand Lens Imager |
| MAPG | Mars Advanced Planning Group |
| Mars-7 | 7th International Conference on Mars |
| MARSIS | Mars Advanced Radar for Subsurface and Ionosphere Sounding |
| MART | Mars Architecture Review Team |
| MastCam | Master Camera |
| MATT | Mars Architecture Tiger Teams |
| MAV | Mars Ascent Vehicle |

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| MAVEN | Mars Atmosphere and Volatiles Evolution Mission |
| MAX-C | Mars Astrobiology Explorer-Cacher |
| MCR | Mission Concept Review |
| MEP | Mars Exploration Program |
| MEPAG | Mars Exploration Program Analysis Group |
| MER | Mars Exploration Rover mission to Mars, launched 2003 |
| MEX | Mars Express mission to Mars, launched 2003 |
| MGS | Mars Global Surveyor mission to Mars, launched 1996 |
| MIDP | Mars Instrument Development Program |
| MMRS | Mars Microbeam Raman Spectrometer |
| MOI | Mars orbital insertion |
| MOLA | Mars Orbiter Laser Altimeter |
| MPF | Mars Pathfinder mission to Mars, launched 1997 |
| MRO | Mars Reconnaissance Orbiter mission to Mars, launched 2005 |
| MRR | Mid-Range Rover |
| MRR-SAG | Mid-Ranger Rover Science Analysis Group |
| MSL | Mars Science Laboratory named Curiosity, will launch 2011 |
| MSO | Mars Science Orbiter |
| MSR | Mars Sample Return |
| MSS-SAG | Mars Strategic Science Science Analysis Group |
| MT | Magnetotelluric Method |
| NASA | National Aeronautics and Space Administration |
| ND-SAG | Next Decade Science Analysis Group |
| NET | Mars Surface Network Mission concept |
| NET-SAG | Network Science Analysis Group |
| NRC | National Research Council |
| ODY | Odyssey mission to Mars, launched 2001 |
| OMEGA | Observatoire pour la Minéralogie, l'Eau, les Glaces, et l'Activité |
| Pancam | Panoramic Camera |
| PDR | Preliminary Design Review |
| PHX | Phoenix mission to Mars, launched 2007 |
| PIDDP | Planetary Instrument Definition and Development Program |
| PIXE | Particle-Induced X-ray Emission |
| PKP | P Wave/Primary wave |
| PLD | Polar Layered Deposits |
| PMSR | Preliminary Mission and Systems Review |
| PSDS | Planetary Sciences Decadal Survey |
| PSP | Primary Science Phase |
| PSS | Planetary Science Subcommittee |
| RAC | Robotic Arm Camera |
| RAT | Rock Abrasion Tool |
| REMS | Rover Environmental Monitoring Station |
| RY | Real Year |
| SAG | Science Analysis Group |
| SAM | Sample Analysis at Mars |
| SCIM-MSR | Sample Collection for Investigation of Mars – Mars Sample Return |

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|--------|---|
| SDT | Science Definition Team |
| SHARAD | Shallow Subsurface Radar |
| SIR | System Integration Review |
| SL-MSR | Signs of Life - Mars Sample Return |
| SNC | Shergottites, Nakhilites, Chassignites |
| SNR | Signal-to-Noise Ratio |
| SP | Settable Parameter |
| SRF | Sample Receiving Facility |
| SSG | Science Steering Group |
| SWIR | short-wave infrared |
| T/I | Technology and infrastructure |
| TAO | Takeoff/Ascent to Orbit |
| TBD | To be determined |
| TCP/IP | Transmission Control Protocol/Internet Protocol |
| TGM | Trace Gas Mission |
| TGO | Trace Gas Orbiter |
| TM | Transverse Magnetic |
| TRL | Technology Readiness Level |
| UHF | Ultra High Frequency |
| UV | Ultra Violet |
| V-1 | Viking 1 lander, launched 1975 |
| V-2 | Viking 2 lander, launched 1975 |
| VBB | Very Broad Band |
| XGT | X-ray Guide Tube |
| XRD | X-ray Diffraction |
| XRF | X-ray Fluorescence |