

## Suzanne E. Smrekar

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### Education

B.S. Geophysics/Math, Brown University, Providence, RI, 1984.  
Ph.D. Geophysics, Southern Methodist University, Dallas, TX, 1990.

### Professional Experience

PI, VERITAS Mission, 6/2021-present ☺  
Deputy PI, InSight Mission, 2012-present.  
Deputy PI, Heat Flow and Physical Properties Probe (HP3), InSight, 2012-present.  
Senior Research Scientist, Jet Propulsion Laboratory, NASA, Nov. 2013  
Mars '05 Mars Reconnaissance Orbiter, Deputy Project Scientist, 2001-2012.  
Venus Express, Participating Scientist co-I w/Bob Carlson, 2005-present.  
Mars '09 Smart Lander Study Scientist, 2001.  
New Millennium, Deep Space 2, Mars Microprobe Project Scientist, JPL, 1995-2000.  
Co-I, Champollion Physical Properties Probe, 1995-1999.  
Mars Micromission Study Scientist, 1998-1999.  
Postdoctoral Associate, Dept. of Earth, Atmos., and Planet. Sci., MIT, 1990-1992.

### Awards

NASA Outstanding Public Leadership Medal, 2020  
NASA Group Achievement: InSight Science Operations and Enhancement Team, 2020  
JPL People Leadership: 'Scientific leadership, mentoring, public outreach on InSight' 2019  
Emmy Award Team: 'Outstanding Original Interactive Program' for InSight Landing, 2019  
Elected to International Academy of Astronautics, 2015  
NASA Group Achievement Award, MSL Relay Operations Team, 2013.  
NASA Exceptional Scientific Achievement Medal, Recent Volcanism on Venus, 2012.  
NASA Exceptional Achievement Medal, for Mars Reconnaissance Orbiter Science Planning, 2007.  
Presidential Early Career Award for Scientists and Engineers Nominee, 1996.  
NASA Group Achievement Award: 1) Magellan Science Group, 1993; 2) Mars Reconnaissance Orbiter Project: Development Team and Flight Development Team, 2006.

### Professional Activities

National Academy of Science Decadal Survey Mid-Term Update Panel, 2017-2018.  
JPL Senior Research Science Council, Chair, Diversity & Inclusion Subcommittee, 2018-2021.  
Editorships:  
Venus: Evolution through time, Intern. Space Science Inst., co-editor, 2022.  
Venus III book co-editor, 2020.  
Associate Editor, Journal of Geophysical Research (Planets), 1997-2001.  
Icarus Special Issue Guest Editor: Advances in Venus Science, 2010.  
Venus Exploration and Analysis Group committees: 1) Roadmapping, 2) Goals, Initiatives, and Objectives, 2012-present  
Venus Exploration and Analysis Group Co-chair, 2009-2011.

AGU Hess Medal Nominating Committee.  
International Lunar Network Science Definition Team, 2008.  
Postdoctoral Advisor, 1998-present: Mary Urquhart, Scott Anderson, Trudi Hoogenboom, Alice Guest, Daniel Nunes, Serina Diniega, Matthew Siegler, Leah Sabbath, Joseph Schools  
Undergraduate Student Mentor: dozens of students since 1995.  
Mars '09 Smart Lander Science Advisory Group, 2002.  
Mars '09 Smart Lander Science Definition Team Deputy Chairperson, 2001.  
Mars Reconnaissance Orbiter Science Definition Team, 2001.  
Associate Editor, Journal of Geophysical Research (Planets), 1997-2001.  
NASA Campaign Strategies Working Group, Formation and Dynamics of Earth-like Planets, 1998-2002.  
Planetary Geology and Geophysics Undergrad. Res. Program Advisor, 1995-2001.  
Secretary for the Planetology Section of the American Geophysical Union, 1994-1996.  
NASA Planetary Geology and Geophysics and Mars Data Analysis Review Panel  
Executive Secretary for NASA's Mars Science Working Group, 1994-1996.

*Scientific Organizing Committees:*

International Space Science Institute Workshop: Venus – Evolution Through Time, 2020  
Comparative Tectonics and Geodynamics of Venus, Earth, and Rocky Exoplanets, 2015  
Comparative Climatology of the Terrestrial Planets, 2012.  
7<sup>th</sup> International Conference on Mars, 2007.  
2<sup>nd</sup> International Workshop: Exploring Mars and its Earth Analogues, 2007.  
Lunar and Planetary Science Conf., 1994, 2007.  
AGU Chapman Conference: Venus as a Terrestrial Planet, 2006.  
Mars Exploration Program and Sample Return Missions, Paris, 2/1999.  
Mars Micromissions Workshop, Paris, 5/1998; 2/1999.  
Conference on Mars Polar Science and Exploration, Houston, 10/1998.  
AGU Chapman Conference: Geodynamics of Venus, Aspen, 9/1997.  
Digital Avionics System Conf., Micro-science: Instruments/ small spacecraft, Irvine, CA, 10/1997.  
American Geophysical Union Fall Meeting, 1994, 1995, 1996.

*Selected Recent Public Outreach*

CBS Saturday Morning Show, 'Venus advocate' 1/25/2020  
Rolling Stone Magazine, 'Women of NASA', 3/19 issue  
Nova, PBS/BBC 'The Planets: Inner Worlds', 2019  
Planetary Radio, Giving Mysterious Venus the Love (and Science) She Deserves, 8/2018  
InSight Mission, numerous events leading up to landing on 11/26/18  
BBC Horizons, 'The Wildest Weather in the Universe', 2016  
NPR commentary on 'The Martian' book, 2016  
AGU Planetary Science Interview 2012  
'Venus: Earth's Evil Twin or Just Misunderstood?' Griffith Observatory, 6/2012.  
BBC Horizons, season 48, episode 15: The transit of Venus, 6/2012

**Professional Societies**

American Geophysical Union, 1987-present

## Publications

1. Smrekar, S.E., C. Ostberg, J.G. O'Rourke, Evidence for active rifting and Earth-like lithospheric thickness and heat flow on Venus, submitted, 2022.
2. Smrekar, S., VERITAS (Venus Emissivity, Radio Science, InSAR, Topography, and Spectroscopy): A Discovery Mission, (IEEE) Aerospace Conf., in press, 2022.
3. Grott, M., T. Spohn, J. Knollenberg, C. Krause, T. L. Hudson, S. Piqueux., N. Müller, M. Gollonbek, C. Vrettos, E. Marteau, S. Nagihara, P. Morgan, J. Murphy, M. Siegler, S. King, S. E. Smrekar, and W. B. Banerdt, Thermal conductivity of the Martian regolith at the InSight landing site from HP3 active heating experiment, *Geophys. Res. Planets*, accepted, 2021.
4. Mittelholz, A., C. L. Johnson, M. Fillingim, S. P. Joy, J. Espley, J. Halekas, S. Smrekar, W. B. Banerdt Space weather observations with InSight, *Geophys. Res. Lett.*, Doi: 10.1029/2021GL095432, 2021.
5. Cascioli, G., F. De Marchi, P. Racioppa, D. Durante, L. Less, S. Hensley, E. Mazarico, S. Smrekar, The determination of the rotational state and interior structure of Venus with VERITAS, *Planetary Science J.*, doi:10.3847/PSJ/ac26c0, 2021.
6. Borrelli, M.E., J. G. O'Rourke, S.E. Smrekar, and C.M. Ostberg, A global survey of lithospheric flexure at steep-sided domical volcanoes on Venus reveals intermediate elastic thicknesses, *J. Geophys. Res. Planets*, 126, 7, doi: 10.1029/2020JE006756, 2021.
7. Sharon K., M. P. Panning, S.E. Smrekar, S.C. Stähler, S.D. King, M.P. Golombek, M. Manga, B.R. Julian, B. Shiro, C. Perrin, J. A. Power, C. Michaut, S. Ceylan, D. Giardini, P. Lognonne, W. B. Banerdt, Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes, *JGR-P*, 126, e2020JE006518. <https://doi.org/10.1029/2020JE006518>, 2021.
8. Dyar, M.D., J. Helbert, R.C. Cooper, E.C. Sklute, A. Marurilli, N.T. Mueller, D. Kappel, S.E. Smrekar, Surface weathering on Venus: Constraints from kinetic, spectroscopic, and geochemical data, *Icarus*, DOI: 10.1016/j.icarus.2020.114139, 2021.
9. Ceylan, S., and 25 other authors, Companion guide to the marsquake catalog from InSight, Sols 0-478: Data content and non-seismic events, doi: 10.1016/j.pepi.2020.106597, 2021
10. Clinton, J.F. and 25 other authors, The Marsquake catalogue from InSight, sols 0-478, *Phys. Earth Planet. Int.*, doi: 10.1016/j.pepi.2020.106595, 2021.
11. Drilleau, M. and 29 other authors, MSS/1: Single-Station and Single-Event Marsquake Inversion, *Earth Space Sci.*, doi: 10.1029/2020EA001118, 2021.
12. Ojha, L; Karimi, S; Buffo, J; Nerozzi, S; Holt, JW; Smrekar, S; Chevrier, V., Martian Mantle Heat Flow Estimate From the Lack of Lithospheric Flexure in the South Pole of Mars: Implications for Planetary Evolution and Basal Melting, *Geophys. Res. Lett.*, 48, doi: 10.1029/2020GL091409, 2021.
13. Mittelholz, A., and 11 other authors, The Origin of Observed Magnetic Variability for a Sol on Mars From InSight, *J. Geophys. Res. Planets*, doi: 10.1029/2020JE006505, 2021.
14. Maki, J.N., M. Golombek, W. Banerdt, S. Smrekar, R. Deen, H. Abarca, S. Lu, J. Hall, Color Properties at the Mars InSight Landing Site, *Earth Space Science*, doi: 10.1029/2020EA001336, 2021.
15. Mittelholz, A., Johnson, C.L., Thorne, S.N., Joy, S., Barrett, E., Fillingim, M.O.; Forget, F; Langlais, B; Russell, C.T; Spiga, A; Smrekar, S; Banerdt, W.B., The Origin of Observed Magnetic Variability for a Sol on Mars From InSight, *JGR-P*, DOI: 10.1029/2020JE006505, 2020.
16. Mueller, N.T., Knollenberg, J., Grott, M., Kopp, E., Walter, I., Krause, C., Hudson, T., Spohn, T., Smrekar, S., Calibration of the HP3 Radiometer on InSight, *Earth Space Sci.*, DOI: 10.1029/2020EA001086, 2020.
17. Drilleau, M. and 31 other authors, MSS/1: Single-Station and Single-Event Marsquake Inversion, *Earth and Space Sci.*, DOI: 10.1029/2020EA001118, 2020.
18. Banerdt, W.B. & S.E. Smrekar (*co-1st authors*), and 40 other authors, Initial Results from the InSight Mission, *Nature Geosci.* 13, 183–189, DOI: 10.1038/s41561-020-0544-y, 2020.

19. Banfield, D. & A. Spiga, and 47 authors, First results from InSight's meteorology station on Mars, *Nature Geosci.* DOI: 10.1007/S11214-018-0570-X, 2020.
20. Giardini, D., and 61 authors, The Seismicity of Mars, *Nature Geosci.* 13, 205-212, DOI: 10.1038/s41561-020-0539-8, 2020.
21. Golombek, M., and 49 authors, Geology of the InSight Landing Site on Mars, *Nature Commun.* 11, 1014, DOI: 10.1038/s41467-020-14679-1, 2020.
22. Johnson, C.L. and 20 authors, Crustal and Time-Varying Magnetic Fields at the InSight Landing Site, *Nature Geosci.* 13, 199–204, Doi: 10.1038/s41561-020-0537-x, 2020.
23. Lognonné, P., Banerdt, W.B., Pike, W.T. et al. Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. *Nat. Geosci.* 13, 213–220 (2020). <https://doi.org/10.1038/s41561-020-0536-y>, 2020.
24. Mueller, N. T., S. E. Smrekar, C.C. Tsang, Multispectral surface emissivity from VIRTIS on Venus Express, *Icarus*, 335, 113400, doi: 10.1016/j.icarus.2019.113400, 2020.
25. M. Grott T. Spohn, J. Knollenberg, C. Krause, M. Scharringhausen, T. Wippermann, S.E. Smrekar, T.L. Hudson, W.B. Banerdt, Calibration of the Heat Flow and Physical Properties Package (HP<sup>3</sup>) for the InSight Mars Mission, *Earth Space Sci.*, 6, 12, doi: 10.1029/2019EA000670, 2019.
26. Ojha, L., S. Karimi, K.W. Lewis, K.W., S.E. Smrekar, and M. Siegler, Depletion of heat producing elements in the Martian mantle, *Geophys. Res. Lett.*, doi: 10.1029/2019GL085234, 2019.
27. Smrekar, S. and 31 other authors, Pre-Mission insights on the interior of Mars, *Space Sci. Rev.* 215:3, doi:10.1007/s11214-018-0563-9, 2019.
28. Dyar, M. D., S.E. Smrekar, and S. R. Kane, The exoplanet next door: How Visiting Venus Will Help Us Find Life on Distant Planets, *Scientific American*, 320, v2, 2019.
29. Banfield, D. and 25 other authors, InSight Auxiliary Payload Sensor Suite (APSS) *Space Sci Rev* (2019) 215:4 <https://doi.org/10.1007/s11214-018-0570-x>, 2019.
30. Lognonne, P., and n other authors, SEIS: The Seismic Experiment for Internal Structure of InSight, *Space Sci. Rev.* In review, 215:xx, doi:10.1007/, 2019.
31. Plesa, A.-C., S. Padovan, N. Tosi, D. Breuer, M. Grott, M.A. Wieczorek, T. Spohn, S.E. Smrekar and W.B. Banerdt, The Thermal State and Interior Structure of Mars, *Geophys. Res. Lett.*, 45, 22, p. 12198-12209, DOI: 10.1029/2018GL080728, 2019.
32. Daubar, I. and 36 other authors, Impact-Seismic investigations of the InSight Mission, *Space Sci. Rev.* 214:132, doi:10.1007/s11214-018-0562-x, 2018.
33. Smrekar, S.E., A. Davaille, and C. Sotin, Venus interior structure and dynamics, *Space Sci. Reviews*, 214:88, doi: 10.1007/s11214-018-0518-1, 2018.
34. Smrekar, S., S. Hensley, M.S. Wallace, M.E. Lisano, M.R. Darrach, C. Sotin, and D. Lehman, Venus Origins Explorer (VOX) Concept: A proposes New Frontiers mission, *Institute for Electrical and Electronics Engineers (IEEE) Aerospace Conf.*, 1-19, p. 2018.
35. Spohn, T., M. Grott, S. E. Smrekar and 18 other authors, The Heat Flow and Physical Properties Package (HP<sup>3</sup>) for the InSight Mission, *Space Sci. Reviews*, 214:96 doi:10.1007/s11214-018-0531-4, 2018.
36. Helbert, J., D. Dyar, I. Walter, D. Wendler, T. Widemann, E. Marcq, G. Guignan, S. Ferrari, A. Maturilli, N. Mueller, D. Kappel, J. Jaenchen, M. D'Amore, A. Boerner, C. Tsang, G.E. Arnold, S. Smrekar, The Venus Emissivity Mapper (VEM): obtaining global mineralogy of Venus from orbit, *Proc. SPIE 10765, Infrared Remote Sensing and Instrumentation XXVI*, 107650D; doi: 10.1117/12.2320112, 2018.
37. Golombek, M. and 45 other authors, Geology and Physical Properties Investigations by the InSight, *Space Sci. Reviews*, *Space Sci Rev* 214:84, doi.org/10.1007/s11214-018-0512-7, 2018.

38. Golombek, M. and 34 other authors, Selection of the InSight landing site, *Space Sci. Reviews*, *Space Sci.* 211:5–95, doi: 10.1007/s11214-016-0321-9, 2018.
39. O'Rourke, J.G. and S.E. Smrekar, Signatures of lithospheric flexure and elevated heat flow in stereo topography at coronae on Venus, *J. Geophys. Res.*, doi:10.1002/2017JE005358, 2018.
40. Spiga, A. and 36 other authors, Atmospheric science with InSight, *Space Sci Rev* 214: 109. <https://doi.org/10.1007/s11214-018-0543-0>, 2018.
41. Gilmore, M., A. Treiman, J. Helbert, S. Smrekar, Venus surface composition constrained by observation and experiment, *Space Sci. Rev.*, DOI 10.1007/s11214-017-0370-8, 2017.
42. Davaille, A., S.E. Smrekar, S. Tomlinson, Experimental and Observational Evidences for Plume-Induced Subduction on Venus, *Nature Geosciences*, doi 10.1038/ngeo2928, 2017.
43. Golombek, M. and 34 other authors, Selection of the InSight Landing Site, *Space Science Reviews-InSight Special Issue*, 211:5–95, DOI 10.1007/s11214-016-0321-9, 2017.
44. Morgan, P., S. Smrekar, R. Lorenz, M. Grott, O. Kroemer, N. Mueller, Potential effects of surface temperature variations and disturbance and thermal convection, *Space Science Reviews- InSight Special Issue*, 211:5–95, DOI 10.1007/s11214-017-0388-y, 2017.
45. Mueller, N.T., S. Smrekar, J. Helbert, E. Stofan, G. Piccioni, P. Drossart. Search for active lava flows with VIRTIS on Venus Express, *J. Geophys. Res. Planets*, doi: 10.1002/2016JE005211, 2017.
46. Siegler, M.A., Smrekar, S.E., Piqueux, S., Müller, N., Grott M. Three-Dimensional Thermal Modeling for the 2018 InSight Mission, *Space Science Reviews- InSight Special Issue*, doi:10.1007/s11214-017-0331-2, 2017.
47. Freeman, A., S.E. Smrekar, S. Hensley, et al., VERITAS – A Discovery-class Venus surface geology and geophysics mission, *Institute for Electrical and Electronics Engineers (IEEE) Aerospace Conf.* 2016.
48. Panning, M., and 34 other authors, Planned products of the Mars structure service for the InSight Mission to Mars, *Space Sci. Rev.*, doi:10.1007/s11214-016-0317-5, 2016.
49. Plesa, A.-C., M. Grott, M.T. Lemmon, N. Mueller, S. Piqueuz, M.A. Siegler, S.E. Smrekar, T. Spohn, Interannual perturbations of the Martian surface heat flow by atmospheric dust opacity variations, *J.G.R. Planets*, 10.1002/2016JE005127, 2016.
50. Seu, R. S. Smrekar, S. Hensley, P. Lombardo, A SAR Interferometer Experiment to Explore the Surface of Venus, *Proc. EUSAR 11th European Conf. Synthetic Aperture Radar*, 2016.
51. Stofan, E. R., S. E. Smrekar, N. Mueller, and J. Helbert, Themis Regio, Venus: Evidence for recent (?) volcanism from VIRTIS data, accepted, *Icarus*, 271, doi:10.1016/j.icarus.2016.01.034, 2016.
52. Smrekar, S.E., E. R. Stofan, and N. Mueller, Venus: Surface and Interior, in *Encyclopedia of the Solar System*, 3rd edition, eds. T. Spohn, D. Breuer and T.V. Johnson, Elsevier, 2015.
53. Banerdt, W.B., W. Dehart, R. Grimm, M. Grott, P. Lognonné, and S.E. Smrekar, Probing the interior of planets with geophysical tools, pp.1185-1204, in *Encyclopedia of the Solar System*, 3rd edition, eds. T. Spohn, D. Breuer and T.V. Johnson, Elsevier, 2015.
54. Hensley, S., S. Smrekar, S. Shaffer, M. Paller, H. Figueroa, A. Freeman, R. Hodges, P. Walkemeyer, VISAR: A next generation interferometric radar for venus exploration, *2015 IEEE 5th Asia-Pacific Conference on Synthetic Aperture Radar (APSAR)*, 2015, pp. 362-366, doi: 10.1109/APSAR.2015.7306225.
55. Piskorz, D., Elkins-Tanton, L.T., and Smrekar, S.E. Coronae Formation on Venus via Extension and Lithospheric Instability, *J. Geophys. Res. Planets*, 119, 2568-2582, doi:10.1002/2014JE004636, 2014.
56. Siegler, M., and S.E. Smrekar, Reinterpreting Apollo lunar heat flow using new constraints, DOI: 10.1002/2013JE004453, *J. Geophys. Res. Planets*, 119, 47–63, 2014.

57. Clegg, S.M. R. Wiens, A. K. Misra, S. K. Sharma, J. Lambert, S. Bender, R. Newell, K. Nowak-Lovato, S. Smrekar, M. D. Dyar, S. Maurice, Planetary geochemical investigation using Raman and laser-induced breakdown spectroscopy, *Appl Spectrosc.* 68, 925-936, doi: 10.1366/13-07386, 2014.
58. Diniega, S., S.E. Smrekar, S.W. Anderson, and E.R. Stofan, The influence of temperature-dependent viscosity on lava flow dynamics, *J. Geophys. Res. Solid Earth*, 118, 1516-1532, 10.1002/jgrf.20111, 2013.
59. Milbury, C., G. Schubert, C. A. Raymond, S. E. Smrekar, and B. Langlais, The History of Mars' Dynamo as Revealed by Modeling Magnetic Anomalies near Tyrrhenus Mons and Syrtis Major, *J. Geophys. Res. Planets*, Vol. 117, doi:10.1029/2012JE004099, 2012.
60. Smrekar, S.E. and Sotin, C., Constraints on mantle plumes on Venus: Implications for volcanism and volatile history, *Icarus*, doi:10.1016/j.icarus.2011.09.011, 2012.
61. Anderson, S.W., S.E. Smrekar, and E.R. Stofan, Tumulus development on lava flows: Insights from observations of active tumuli and analysis of formation models, *Bull. Volc.*, doi:10.1007/s00445-012-0576-2, 2012.
62. Dehant, V., and 23 other authors, Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution, *Planet. Space Sci.*, doi:10.1016/j.pss.2011.10.016, 2012.
63. Phillips, R.J., and 17 authors, Massive CO<sub>2</sub> ice deposits sequestered in the south polar Layered deposits of Mars, *Science* 21 April DOI:10.1126/science.1203091, 2011.
64. Konopliv, A.S., S.W. Asmar, W. M. Folkner, O. Karatekin, D. C. Nunes, S. E. Smrekar, C. F. Yoder, and M. T. Zuber, Mars high resolution gravity fields from MRO, Mars seasonal gravity, and other dynamical parameters, *Icarus*, 211, 401-428, 2011.
65. Nunes, D.C., S.E. Smrekar, B. Fisher, J. Plaut, J.W. Holt, J. W. Head, and R.J. Phillips, SHARAD, pedestal craters, and the lost Martian layers: initial assessments, 116, E04006, doi:10.1029/2010JE003690, 2011.
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67. Smrekar, S.E., T. Hoogenboom, E.R. Stofan, and P. Martin, Gravity analysis of Parga and Hecate Chasmata: Implications for rift and coronae formation, *J. Geophys. Res. Planets*, 115, E07010, doi:10.1029/2009JE003435, 2010.
68. Nunes, D. C., S. E. Smrekar, A. Safaeinili, J. Holt, R. J. Phillips, R. Seu, and B. Campbell, Examination Of Gully Sites On Mars With The Shallow Radar, *J. Geophys. Res.*, *J. Geophys. Res.*, doi:10.1029/2009JE003509, 2010.
69. Tamppari, L. K., and 25 authors, Phoenix and MRO coordinated atmospheric measurements, *J. Geophys. Res.*, 115, E00E17, doi:10.1029/2009JE003415, 2010.
70. Duan, XY, M. Moghaddam, D. Wenkert, R.L. Jordan, and S.E. Smrekar, X-band model of Venus atmosphere permittivity, *Radio Sci.*, 45, RS2003, doi:10.1029/2009RS004169, 2010.
71. Cohen, B., J. Veverka, B. Banerdt, A. Dombard, L. Elkins-Tanton, R. Grimm, Y. Nakamura, C. Neal, J. Plescia, S. Smrekar, and B. Weiss, Final Report of the ILN Anchor Nodes Science Definition Team, NASA, 2009.
72. McGill, G. E., E.R. Stofan, S.E. Smrekar, Venus Tectonics, In *Planetary Tectonics*, eds. T. A. Watters and R.S. Schultz, Cambridge Univ. Press, pp. 585, 2009.
73. Phillips, R.J., M.T. Zuber, S.E. Smrekar, and 24 other authors, Mars North Polar Deposits: Stratigraphy, Age, and Geodynamical Response, *Science*, DOI: 10.1126/science.1157546, 2008.
74. Smrekar, S.E., L. Elkins-Tanton, J. Leitner, A. Lenardic, S. Mackwell, L. Moresi, C. Sotin, and E.R. Stofan, Tectonic and thermal evolution of Venus and the role of volatiles: Implications for understanding the terrestrial planets, in *Exploring Venus as a Terrestrial Planet*, eds. L.W. Esposito,

- E.R. Stofan, and T.E. Cravens, *Geophys. Mono.* 176, *Am. Geophys. Un.*, Washington D.C, pp.43-72, 2007.
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  76. Guest, A. and S.E. Smrekar, New constraints on the thermal and volatile evolution of Mars, *Phys. Earth Planet. Int.*, 164, 161-176, 2007.
  77. Martin, P., E.R. Stofan, L.S. Glaze, and S.E. Smrekar, Corona of Parga Chasma, Venus, *J. Geophys. Res. Planets*, 112, E04S03, doi:10.1029/2006JE002758, 2007.
  78. Milbury, C.A.E., S.E. Smrekar, C.A. Raymond, and G. Schubert, Lithospheric structure in the eastern region of Mars' dichotomy boundary, *Planet. Space Sci.*, 55 (3), 280-288, 10.1016/j.pss.2006.03.009, 2007.
  79. Seu, R., R.J. Phillips, D. Biccari, R. Oresci, A. Masdea, G. Picardi, A. Safaeinilli, B.A. Campbell, J.J. Plaut, L. Marinangeli, S.E. Smrekar, and D.C. Nunes, The SHARAD Sounding Radar on the Mars Reconnaissance Orbiter, *J. Geophys. Res.*, 112, E5, doi: 10.1029/2006JE002745, 2007.
  80. Seu, R., and 51 other authors, Accumulation and erosion of Mars' south polar layered deposits, *Science*, 317, 1715-1718, 2007.
  81. Zuber, M.T., R.J. Phillips, J.C. Andrews-Hanna, S.W. Asmar, A.S. Konopliv, F.G. Lemoine, J.J. Plaut, D.E. Smith, and S.E. Smrekar, Density of Mars' south polar layered deposits, *Science*, 317, 1718-1719, 2007.
  82. Zuber, M.T., F.G. Lemoine, D.E. Smith, A.S. Konopliv, S.E. Smrekar, S.W. Asmar, The Mars Reconnaissance Orbiter Radio Science Gravity Investigation, *J. Geophys. Res. Planets*, 112, E5, doi:10.1029/2006JE002833, 2007.
  83. Zurek, R.W. and S.E. Smrekar, An Overview of the Mars Reconnaissance Orbiter (MRO) Science Mission, *J. Geophys. Res. Planets*, 112, E5, doi: 10.1029/2006JE002701, 2007.
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