

Curriculum Vitae

JOHN W. "JACK" HOLT

University of Texas Institute for Geophysics
John A. and Katherine G. Jackson School of Geosciences
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EDUCATION

1997 Ph.D., Geology, California Institute of Technology
 Advisers: Joseph Kirschvink, Joann Stock
1993 M.S., Geology, California Institute of Technology
1988 B.S., Electrical Engineering, Rice University

PROFESSIONAL POSITIONS

2006 – pres **Research Scientist**, Institute for Geophysics, University of Texas at Austin
2008, 2011 **Lecturer**, Department of Geological Sciences, University of Texas at Austin
April, 2008 **Visiting Professor**, Deep Springs College, CA
2000 - 2006 **Research Associate**, Institute for Geophysics, University of Texas at Austin
July, 2004 **Visiting Scholar**, University of Paris, Orsay
2003 **Herbert J. Reich Professor of Natural Sciences**, Deep Springs College, CA
1998 - 2000 **Research Scientist/Associate V**, Institute for Geophysics, Univ. of Texas
1997 - 1998 **Caltech Postdoctoral Scholar at JPL**, Jet Propulsion Laboratory, Pasadena, CA
1988 - 1990 **Member Technical Staff**, Jet Propulsion Laboratory, Pasadena, CA

FIELD EXPERIENCE

2009 - 10 Antarctica: East Antarctic Ice Sheet and Dry Valleys, Expedition Co-Leader.
2008 - 09 Antarctica: East Antarctic Ice Sheet, Expedition Co-Leader; airborne geophysics.
2004 - 05 Antarctica: Amundsen Sea Embayment, Expedition Leader, airborne geophysics.
2001 - 02 Antarctica: Dry Valleys, Ice Stream D, South Pole; airborne radar development.
2000 - 01 Antarctica: Vostok; Expedition Leader, airborne geophysics.
1999 - 00 Antarctica: Dome C, Ross Embayment; Expedition Leader, airborne geophysics.
1998 - 99 Antarctica: Marie Byrd Land, S. Pole; Expedition Leader, airborne geophysics.
1998 Amazon Basin, Brazil, airborne optical measurements for satellite calibration.
1995 - 98 Baja California, Mexico, thesis research, class field trips.
1990 - 97 Death Valley and Mojave Desert, thesis research, class field trips.
1993 South Africa and Namibia, thesis research.
1990 Belize, airborne SAR calibration deployment.
1989 Scotland, airborne SAR calibration deployment.

AWARDS AND HONORS

2011 Nominated for UT's Best Research Paper award for 2010
2010 Discover Magazine Top 100 Science Stories (#40)
2010 UT Institute for Geophysics Outstanding Researcher Award, 2009
2010 UT Institute for Geophysics Director's Circle of Excellence, 2009
2010 Outstanding Oral Presentation, Session 13, SCAR Open Science Conference

2009, 2011	NASA Group Achievement Awards, SHARAD Radar Sounder Team
2008	UT Jackson School of Geosciences Outstanding Research Award for 2008
2001	Antarctic Service Medal
1997 - 98	Caltech Post-Doctoral Scholar at JPL
1992	Koons Field Research Fellowship, California Institute of Technology
1992	NASA Technical Achievement Award
1990	NASA Technical Achievement Award
1984 - 88	President's Honor Roll, Rice University
1984 - 88	National Merit Scholar

STUDENT SUPERVISION

Isaac Smith	Ph.D., Geophysics, supervisor, 2008 – present
Charles Brothers	Ph.D., Geophysics, supervisor, 2008 – present
Sarah Christian	Ph.D., Geology, co-supervisor, 2011 – present
Elisabeth Steel	Undergraduate Honors Thesis, Geology, 2010 – present
Thomas Cowan	Undergraduate Honors Thesis, Geophysics, 2010 – present
Jesse Berney	Undergraduate Honors Thesis, Geology, 2011 – present
Mark Moore	Undergraduate Thesis, Env. Sci./Astronomy, 2010 – present
Justin Finch	Member of M.S. examining committee, 2011 – present.
Augustine Chavez	Masters in Science Education, co-supervisor, UTeach, 2010-2011
Sarah Christian	Undergraduate Honors Thesis, Bryn Mawr College, 2008 - 2011
Enrica Quartini	M.Sc. in Geophysics, Univ. Bologna (visiting UT), 2009 – 2011
Prateek Choudhary	Undergraduate Physics/EE Honors Thesis, 2008 – 2010
John Hooker	Ph.D., Geology, member of Ph.D. examining committee, 2010.
Nanna Karlsson	Ph.D., Geology, visiting from Hull University, 2009.
Hunter Danque	M.S., Geophysics, co-supervisor, 2004 - 07.
Katherine Dlubac	Undergraduate Geophysics Honors Thesis, 2006-07.
Erick Leuro	Ph.D., Geophysics, member of thesis committee, 2005 – present
Irina Filina	Ph.D., Geophysics, member of thesis committee, 2004 - 08.
Kevin Carver	Undergraduate, Geology, research project, 2007.
Stephanie Mills	Undergraduate, Geology, research project, 2007.
Natasha Putman	Undergraduate (Huston-Tillotson), outreach project, 2006-07.
Tomoko Iwata	Undergraduate, Computer Science, Web outreach project, 2005-06.
Jeremy Krimmel	Undergraduate, Geology, Web outreach project, 2005-06.
Holden Hanna	Undergraduate, Geology, Web outreach project, 2004.
Brandon Johnson	Undergraduate, Geology, research project, 2003.

SERVICE TO THE SCIENCE COMMUNITY

2011	Member of Organizing Committee, 42 nd Lunar and Planetary Science Conference
	Member of Scientific Advisory Committee, Fifth International Conference on Mars Polar Science and Exploration

- Member of NASA review panel, Planetary Instrument Development and Definition Program
- Member of NASA review panel, Lunar Advanced Science and Exploration Research Program
- 2010 Hosted MRO/SHARAD Team meeting at UTIG, October 20-21.
- 2009 Co-convener of the first University of Texas Planetary Science Symposium, October 2, 2009, with 26 oral presentations and 54 participants.
- 2008 Taught geology short course at Deep Springs College, California, an underserved educational institution.
- 2007 Co-convener of international workshop: West Antarctic Links to Sea-level Estimation (WALSE), hosted by the Jackson School of Geosciences and the UK Consulate, March 25-28, 2007.
- Co-chaired Planetary Radar Sounding session at Fall AGU meeting.
- Member of NASA review panel, Planetary Instrument Development and Definition Program.
- 2004 – 2007 Developed physics and earth science high school educational materials with undergraduate education students and graduate geoscience students.
- 2003 Taught science courses to undergraduate students at Deep Springs College, an underserved educational institution, engaging them in field-based research projects and exposing them to major research facilities (Owens Valley Radio Observatory, Jet Propulsion Laboratory, Caltech Paleomagnetism Laboratory.)
- 1998 - 2002 Project Manager of Support Office for Aerogeophysical Research (SOAR), an NSF facility. Managed the acquisition, reduction, and distribution of 100,000 line-km of airborne radar, laser altimetry, gravity, and magnetism data from Antarctica for 15 investigators at 10 institutions. Spent 10 months in Antarctica in support of these activities.

OUTREACH & INVITED LECTURES

- 2012 Invited seminar, Caltech
- 2011 Invited seminar, Hokkaido University, Sapporo, Japan
Presentations to students at Brentwood Elementary, Austin
Phone/video interview with Coppas Middle School 6th grade science class
- 2010 Invited seminar, Baylor University Department of Geology
- 2010 Two invited seminars, University of Arizona Lunar and Planetary Laboratory
- 2010 Numerous print articles on Mars polar findings, including New York Times.
- 2009 Public lecture at UT to over 500 people, "Icy Mysteries of Mars Revealed."
- 2009 Lecture on Mars science to TXESS Revolution course (teacher training)

- 2009 Leading role in ABC (Australia) documentary on Antarctic Science
2009 Webcast video interview in Antarctica with San Francisco Exploratorium
2008 Radio interview with Planetary Society
2008 Numerous print articles on Mars glacier findings, including New York Times, Science News, London Times, Telegraph, Discover, etc.
2003 - 07 NASA-funded Education and Public Outreach Project
2006 Presentations to Matthews Elementary, Austin, TX; 3rd grade and kindergarten
2005 BBC news article, *Antarctica's ice bottom exposed*, Dec. 6, 2005.
2005 Guardian news article, *I'm a scientist, get me out of here*, Feb. 24, 2005
2005 AAAS press conference, Feb. 18, 2005, Washington D.C.
2004 Interview for Antarctic Sun article, published Dec. 26, 2004.
2002 Classroom visit and talk, Martin Jr. High, Austin, Texas (8th grade).
2001 - 02 Email dialogue from Antarctica with 6th grade class, Martin Jr. High.
2001 Interview with Australian National Public Radio (Lake Vostok survey).

PROFESSIONAL SOCIETIES

American Geophysical Union
Geological Society of America
Institute of Electrical and Electronics Engineers

PUBLICATIONS (STUDENT AUTHORS UNDERLINED)

In Preparation

- Christian, S., and **J.W. Holt**, The correlation of radar and optical stratigraphy in the northern polar layered deposits, Mars, in preparation for *Icarus*.
Smith, I.B., and J.W. Holt, The northern spiral troughs of Mars as cyclic steps, in preparation for *Journal of Geophysical Research - Planets*.
Brothers, T.C., J.W. Holt, and A. Spiga, The formation of Abalos Mensa, Mars from radar sounding, high-resolution morphology, imagery, and atmospheric modeling, in preparation for *Icarus*.
Choudhary, P., **J.W. Holt**, D.A Young, and S.D. Kempf, Modeling and analysis of surface topographic effects on the orbital radar sounding of Mars, in preparation for *IEEE Geoscience and Remote Sensing Letters*.

Published or In-Press

- Karlsson, N.B., **J.W. Holt**, R.C.A. Hindmarsh, A test of past flow in the north polar layered deposits on Mars using internal radar stratigraphy, *Geophysical Research Letters*, Vol. 38, No. 24, L24204, <http://dx.doi.org/10.1029/2011GL049630>, 2011.
Beyer, R., K. Stack, K. Griffes, R. Milliken, K. Herkenhoff, S. Byrne, **J.W. Holt**, and J. Grotzinger, An atlas of Mars sedimentary rocks as seen by HiRISE, *SEPM Special Publication*, in press.
Young, D. A., A. P. Wright, J. L. Roberts, R. C. Warner, N. Young, J. C. Greenbaum, D. M. Schroeder, **J.W. Holt**, D. E. Sugden, D. D. Blankenship, T. van Ommen, and M. J. Siegert, A dynamic early East Antarctic Ice Sheet suggested by ice covered fjord landscape, *Nature*, 474, 72-75, [doi:10.1038/nature10114](http://dx.doi.org/10.1038/nature10114), 2011.
Phillips, R.J., B.J. Davis, K.L. Tanaka, S. Byrne, M.T. Mellon, N.E. Putzig, R.M. Haberle, M.A. Kahre, B.A. Campbell, L.M. Carter, I.B. Smith, **J.W. Holt**, S.E. Smrekar, D.C. Nunes, J.J.

- Plaut, A.F. Egan, T.T. Titus, R. Seu, Massive CO₂ Ice Deposits Sequestered in the South Polar Layered Deposits of Mars, *Science*, 332, 838-841, [doi:10.1126/science.1203091](https://doi.org/10.1126/science.1203091), 2011.
- Nunes, G. T., S. E. Smrekar, A. Safaeinili, **J.W. Holt**, R. J. Phillips, and R. R. Seu, SHARAD, pedestal craters, and the lost Martian layers - initial assessments, *J. Geophys. Res.*, 115, E10004, [doi:10.1029/2009JE003509](https://doi.org/10.1029/2009JE003509), 2010.
- Holt, J.W.**, K.E. Fishbaugh, S. Byrne, S. Christian, K. Tanaka, P. Russell, K. Herkenhoff, A. Safaeinili, N. Putzig and R. Phillips, The Construction of Chasma Boreale on Mars, *Nature*, 465, 446-449, [doi:10.1038/nature09050](https://doi.org/10.1038/nature09050), 2010.
- Smith, I.B. and **J.W. Holt**, Onset and migration of spiral troughs on Mars revealed by orbital radar, *Nature*, 465, 450-453, [doi:10.1038/nature09049](https://doi.org/10.1038/nature09049), 2010.
- Quidelleur, X., **J.W. Holt**, T. Salvany, and H. Bouquerel, The double structure of the Réunion geomagnetic event based on new K-Ar ages from the type locality, massif de la Montagne, Réunion Island (Indian Ocean), *Geophysical Journal International*, 182 (2), 699-710, [doi: 10.1111/j.1365-246X.2010.04651.x](https://doi.org/10.1111/j.1365-246X.2010.04651.x), 2010.
- Jordan, T. A., F. Ferraccioli, D. G. Vaughan, **J. W. Holt**, H. F. J. Corr, D. D. Blankenship, and T. M. Diehl, Aerogravity evidence for major crustal thinning under the Pine Island Glacier region (west Antarctica), *Geol. Soc. Amer. Bull.*, 122, 714-726, 2010, [doi:10.1130/B26417.1](https://doi.org/10.1130/B26417.1), #2188
- Carter, L., B.A. Campbell, **J.W. Holt**, R.J. Phillips, N.E. Putzig, S. Mattei, R. Seu, C.H. Okubo, A. Egan, Dielectric properties of lava flows west of Ascraeus Mons, Mars, *Geophysical Research Letters*, *Geophys. Res. Lett.*, 36, L23204, doi:10.1029/2009GL041234, 2009.
- Carter, S.P., D.D. Blankenship, D.A. Young, and **J.W. Holt**, Using radar-sounding data to identify the distribution and sources of subglacial water: application to Dome C, East Antarctica, *Journal of Glaciology*, 55, 1025-1040, doi:10.3189/002214309790794931, 2009.
- Joughin, I., S. Tulaczyk, J.L. Bamber, D. Blankenship, **J.W. Holt**, T. Scambos, D.G. Vaughan, Basal Conditions for Pine Island and Thwaites Glaciers Determined using Satellite and Airborne Data, *Journal of Glaciology*, 55, 245-257, doi:10.3189/002214309788608705, 2009.
- Putzig, N.E., R.J. Phillips, B.A. Campbell, **J.W. Holt**, J.J. Plaut, L.M. Carter, A.F. Egan, F. Bernardini, A. Safaeinili, and R. Seu, Subsurface structure of Planum Boreum from Mars Reconnaissance Orbiter Shallow Radar soundings, *Icarus*, 204, 443-457, doi: 10.1016/j.icarus.2009.07.034, 2009
- Carter, S.P., D.D. Blankenship, D.A. Young, M.E. Peters, **J.W. Holt**, and M.J. Siegert, Dynamic distributed drainage implied by the flow evolution of the 1996-1998 Adventure Subglacial Trench subglacial lake discharge, *Earth and Planetary Science Letters*, 283, doi: 10.1016/j.epsl.2009.03.019, 2009.
- Plaut, J.J., A. Safaeinili, **J.W. Holt**, R.J. Phillips, J.W. Head, III, R. Seu, N.E. Putzig, and A. Frigeri, Radar evidence for ice in lobate debris aprons in the mid-northern latitudes of Mars, *Geophysical Research Letters*, 36, L02203, doi:10.1029/2008GL036379, 2009.
- Holt, J.W.**, A. Safaeinili, J.J. Plaut, J.W. Head, R.J. Phillips, R. Seu, S.D. Kempf, P. Choudhary, D. A. Young, N. Putzig, D. Biccari, Y. Gim, Radar sounding evidence for buried glaciers in the southern mid-latitudes of Mars, *Science*, Vol. 322 (5905), pp. 125-1238, doi: 10.1126/science.1164246, 2008.
- Phillips, R.J., M.T. Zuber, S.E. Smrekar, ..., **J.W. Holt**, et al. (27 authors), Mars North Polar Deposits: Stratigraphy, Age, and Geodynamical Response, *Science*, Vol. 320, pp. 1182-1185, doi: 10.1126/science.1157546, 2008.

- Young, D. A., S. D. Kempf, D. D. Blankenship, **J.W. Holt**, and D. L. Morse, New airborne laser altimetry over the Thwaites Glacier catchment, West Antarctica, *Geochemistry, Geophysics, Geosystems*, 9, Q06006, 2008.
- Diehl, T. M., **J.W. Holt**, D. D. Blankenship, D. A. Young, T. A. Jordan, and F. Ferraccioli, First airborne gravity results over the Thwaites Glacier catchment, West Antarctica, *Geochemistry, Geophysics, Geosystems*, 9, Q0401, 2008.
- Kirschvink, J. L., R. E. Kopp, T. D. Raub, C. T. Baumgartner, and **J.W. Holt**, Rapid, precise, and High-sensitivity acquisition of paleomagnetic and rock-Magnetic data: Development of a low-noise automatic sample changing system for superconducting rock magnetometers, *Geochemistry, Geophysics, Geosystems*, 9, Q05Y01, 2008.
- Seu, R., R. J. Phillips, ..., **J.W. Holt**, et al. (52 authors), Accumulation and erosion of Mars south polar layered deposits from subsurface radar sounding, *Science*, 317 (5845), pp. 1715 - 1718, doi: 10.1126/science.1144120, 2007.
- Carter, S.P., D.D. Blankenship, M.E. Peters, D.A. Young, **J.W. Holt**, and D.L. Morse, Radar-based subglacial lake classification in Antarctica, *Geochemistry, Geophysics, Geosystems*, 8, Q03016, doi:10.1029/2006GC001408, 2007.
- Peters, M.E., D.D. Blankenship, S.P. Carter, D.A. Young, S.D. Kempf and **J.W. Holt**, Along-Track Focusing of Airborne Radar Sounding Data From West Antarctica for Improving Basal Reflection Analysis and Layer Detection, *IEEE Transactions On Geoscience and Remote Sensing*, 45(9), pp. 2725-2736, doi: 10.1109/TGRS.2007.897416, 2007
- Peters, M.E., D.D. Blankenship, D.E. Smith, **J.W. Holt** and S.D. Kempf, The Distribution and Classification of Bottom Crevasses from Radar Sounding of a Large Tabular Iceberg, *IEEE Geoscience and Remote Sensing Letters*, 4 (1), p. 142-146, doi:10.1109/LGRS.2006.887057, 2007.
- Holt, J.W.**, M.E. Peters, S.D. Kempf, D.L. Morse, and D.D. Blankenship, Echo Source Discrimination in Single-Pass Airborne Radar Sounding Data from the Dry Valleys, Antarctica: Implications for Orbital Sounding of Mars. *Journal of Geophysical Research*, 111, E06S24, doi:10.1029/2005JE002525, 2006.
- Holt, J.W.**, D.D. Blankenship, D.L. Morse, D.A. Young, M.E. Peters, S.D. Kempf, T.G. Richter, D.G. Vaughan, and H.F.J. Corr, New Boundary Conditions for the West Antarctic Ice Sheet: Subglacial Topography of the Thwaites and Smith Glacier Catchments. *Geophysical Research Letters*, 33, L09502, doi:10.1029/2005GL025561, 2006.
- Holt, J.W.**, T.G. Richter, S.D. Kempf, D.L. Morse, and D.D. Blankenship, Airborne gravity over Lake Vostok and adjacent highlands, East Antarctica, *Geochemistry, Geophysics, Geosystems*, 7, Q11012, doi:10.1029/2005GC001177, 2006.
- Holt, J.W.**, M.E. Peters, D.L. Morse, D.D. Blankenship, L.E. Lindzey, J.L. Kavanaugh, and K.M. Cuffey, Identifying and Characterizing Subsurface Echoes in Airborne Radar Sounding Data From a High-Clutter Environment in Taylor Valley, Antarctica, *Eleventh International Conference on Ground Penetrating Radar, 19-22 June, 2006, Columbus, Ohio*, 5 pp..., 2006.
- Vaughan, D.G., H.F.J. Corr, F. Ferraccioli, N. Frearson, A. O'Hare, D. Mach, **J.W. Holt**, D.D. Blankenship, D.L. Morse, and D.A. Young, New boundary conditions for the West Antarctic ice sheet: Subglacial topography beneath Pine Island Glacier, *Geophysical Research Letters*, 33, L09501, doi:10.1029/2005GL025588, 2006.
- Filina, I.Y., D.D. Blankenship, L. Roy, M.K. Sen, T.G. Richter and **J.W. Holt**, Acquisition and analysis of airborne gravity data over subglacial lakes in East Antarctica, in: Futterer, D.K., D. Damaske, G. Kleinschmidt, H. Miller, F. Tessensohn, eds., *Antarctica: Contributions to Global Earth Sciences*, Springer Publishing House, Berlin Heidelberg New York, pp. 129-134, 2006.

- Studinger, M., R.E. Bell, G.D. Karner, A.A. Tikku, **J.W. Holt**, D.L. Morse, T.G. Richter, S.D. Kempf, M.E. Peters, D.D. Blankenship, Ice cover, landscape setting, and geological framework of Lake Vostok, East Antarctica. *Earth and Planetary Science Letters*, 205(3-4): pp. 195-210, 2003.
- Hess, L. L., E. M. L. M. Novo, D. M. Slaymaker, **J. Holt**, C. Steffen, D. M. Valeriano, L. A. K. Mertes, et al. 2002. Geocoded digital videography for validation of land cover mapping in the Amazon basin. *International Journal of Remote Sensing* 23, no. 7 (4): 1527-1555. doi:10.1080/01431160110092687.
- Richter, T.G., **J.W. Holt**, and D.D. Blankenship, Airborne Gravimetry Over The Antarctic Ice Sheet, in *Proceedings of the International Symposium on Kinematic Systems in Geodesy, Geomatics and Navigation*, Banff, Canada, 2001.
- Holt, J.W.**, E.W. Holt, and J.M. Stock, An age constraint on Gulf of California rifting from the Boleo Copper District, Baja California Sur, Mexico, *GSA Bulletin*, v. 112(4), pp. 540-549, 2000.
- Saatchi, S.S., B. Nelson, E. Podest, and **J. Holt**. 1999. Mapping land cover types in Amazon basin using 1 km JERS-1 mosaic . In Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings. IEEE 1999 International, 2:934-936 vol.2. doi:10.1109/IGARSS.1999.774490.
- Holt, J.W.**, J.L. Kirschvink and F. Garnier, Geomagnetic field inclinations for the past 400 kyr from the 1 km core of the Hawaii Scientific Drilling Project, *Journal of Geophysical Research*, 101 (B5), pp. 11,655-11,663, 1996.
- Holt, J.W.** and J.L. Kirschvink, The upper Olduvai reversal from Death Valley, California: A fold test of transitional directions, *Earth and Planetary Science Letters*, 133, pp. 475-491, 1995.
- Quidelleur, X., **J. Holt**, and J.P. Valet, Confounding influence of magnetic fabric on sedimentary records of a field reversal, *Nature*, 374, pp. 246-249, 1995.
- Kwok, R., E.J.M. Rignot, J. Way, A. Freeman and **J. Holt**, Polarization signatures of frozen and thawed forests of varying environmental state, *IEEE Transactions on Geoscience and Remote Sensing*, 32 (2), pp. 371-381, 1994.

Abstracts and Other Non-Refereed Publications

(Student authors underlined. Does not include all co-authored abstracts.)

- Holt, J.W.** and the SHARAD Team, A New View of Planum Boreum Evolution from Radar Stratigraphy, *Fifth International Conference on Mars Polar Science and Exploration*, Abstract #6033, 2011.
- Brothers, T.C. and **J.W. Holt**, New constraints on the formation of Abalos Mensa, Planum Boreum from radar stratigraphy and high-resolution imagery, *Fifth International Conference on Mars Polar Science and Exploration*, Abstract #6052, 2011.
- Christian, S., **J.W. Holt**, S. Byrne, N.E. Putzig, and P.S. Russell, Impact of nonuniform accumulation on developing an integrated radar-optical stratigraphy of the north polar layered deposits, Mars, *Fifth International Conference on Mars Polar Science and Exploration*, Abstract #6027, 2011.
- Smith, I.B., **J.W. Holt**, G. Kocurek, A.D. Howard, A. Spiga, A theoretical and observational framework for estimating migration rates of spiral troughs in the north polar layered deposits, Mars., *Fifth International Conference on Mars Polar Science and Exploration*, Abstract #6050, 2011.
- Karlsson, N.B., **J.W. Holt**, R.C.A. Hindmarsh, Testing for Flow in the North Polar Layered Deposits of Mars Using Radar Stratigraphy and a Simple 3D Ice Flow Model, *Fifth*

- International Conference on Mars Polar Science and Exploration*, Abstract #6028, 2011.
- Kocurek, G., R.C. Ewing, S. Christian, **J.W. Holt**, Sequence Stratigraphy of the Planum Boreum Cavi Unit, North Polar Region of Mars, *Fifth International Conference on Mars Polar Science and Exploration*, Abstract #6020, 2011.
- S. Byrne, P. S. Russell, S. Mattson, **J.W. Holt**, S. Christian, M. Massé, N. E. Putzig, K. E. Herkenhoff, C. S. Hvidberg, S. M. Milkovich, K. E. Fishbaugh, HiRISE Team, Exposure Analysis of Polar Stratigraphy from HiRISE Topography, *Fifth International Conference on Mars Polar Science and Exploration*, Abstract #6012, 2011.
- Holt, J.W.**, I. B. Smith, S. Christian, T. C. Brothers, and R. J. Phillips, Radar Stratigraphy of Planum Boreum, Mars: A Rich History of Accumulation and Erosion Preserved by a Lack of Flow, *42nd Lunar and Planetary Science Conference*, Abstract #2664, 2011.
- Smith, I.B. and **J.W. Holt**, Temporal and Spatial Evolution of Spiral Troughs on Planum Boreum, Mars from Detailed Stratigraphic Mapping: Implications for Local Atmospheric Processes, *42nd Lunar and Planetary Science Conference*, Abstract #2742, 2011.
- T.C. Brothers and **J.W. Holt**, SHARAD Investigations of Possible Links Between Erosion of Mars' Planum Boreum Basal Unit and Nearby Sedimentary Deposits, *42nd Lunar and Planetary Science Conference*, Abstract #2669, 2011.
- S. Christian and **J.W. Holt**, Frequency Analysis of SHARAD Reflectors Within the North Polar Layered Deposits, Mars and Implications for the Link Between Radar and Optical Data, *42nd Lunar and Planetary Science Conference*, Abstract #2628, 2011.
- Quartini, E., **J.W. Holt**, T.C. Brothers, Internal Structure of a Lobate Debris Apron Complex in Eastern Hellas: Evidence for Multiple Mid-Latitude Glaciations on Mars, *42nd Lunar and Planetary Science Conference*, Abstract #2470, 2011.
- D.C. Nunes, S. Christian, **J.W. Holt**, S. E. Smrekar, R. J. Phillips, Modeling SHARAD Echoes from HiRISE-Derived Stratigraphy of the Northern Polar Layered Deposits of Mars, *42nd Lunar and Planetary Science Conference*, Abstract #2552, 2011.
- P.S. Russell, S. Byrne, S. Mattson, S. Christian, **J.W. Holt**, S.M. Milkovich, N.E. Putzig, Mars North Polar Layered Deposit Stratigraphy near Gemini Lingula from HiRISE Imagery and DTMs, *42nd Lunar and Planetary Science Conference*, Abstract #2752, 2011.
- Holt, J.W.**, R.J. Phillips; S.R. Christian, B. Davis, I.B. Smith, T.C. Brothers, E. Quartini, K. Tanaka, and N. Putzig, New Constraints on Mars Paleoclimate from Orbital Radar Studies of Polar and Mid-Latitude Ice Deposits, *4th International Workshop on the Mars Atmosphere: Modelling and Observations*, Paris, Feb. 8-11, 2011.
- Smith, I.B. and **J.W. Holt**, Implications for Current and Past Atmospheric Conditions of Mars from Radar Stratigraphic Studies of Spiral Troughs in the Polar Layered Deposits, *4th International Workshop on the Mars Atmosphere: Modelling and Observations*, Paris, Feb. 8-11, 2011.
- Holt, J.W.**, P. Choudhary, S. Christian, Beyond Clutter: Long-wavelength topographic effects on subsurface interface geometries derived from orbital radar sounding data, *Eos. Trans. AGU*, Fall Meeting, Abstract P23A-1623, 2010.
- Smith, I.B., and J.W. Holt, SHARAD Investigations into the Initiation of Spiral Troughs on Planum Boreum, Mars, *Eos. Trans. AGU*, Fall Meeting, Abstract P53F-03, 2010.
- S. Christian, J.W. Holt, P. Choudhary, K.E. Fishbaugh, Correlating High-Resolution Radar Reflectors with Visible Layering of the Polar Layered Deposits, Mars, *Eos. Trans. AGU*, Fall Meeting, Abstract P34A-02, 2010.
- T.C. Brothers, J.W. Holt, and K. Tanaka, Planum Boreum Basal Unit Topography and its Influence on Surface Structures, *Eos. Trans. AGU*, Fall Meeting, Abstract P53F-04, 2010.

- Holt, J. W.**, S. Byrne, K. Fishbaugh, S. Christian, N. E. Putzig, R. J. Phillips, K. Tanaka, Chasma Boreale, Mars: A Product of Non-Uniform Polar Accumulation Influenced by Basal Topography, *41st Lunar and Planetary Science Conference* (2010), Abstract #2547.
- Brothers, T. C., **J. W. Holt**, S. W. Christian, P. Choudhary, Investigating Subsurface Geomorphology of the Basal Unit of Planum Boreum, Mars with SHARAD to Constrain Early Erosional Processes, *41st Lunar and Planetary Science Conference* (2010), Abstract #2590.
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