CURRICULUM VITAE – Victor R. Baker Abbreviated Version – 41 pages (The Complete CV is 132 pages) July 2020

PERSONAL DATA

Current Positions	Regents Professor, Department of Hydrology and Atmospheric Sciences; Professor of Planetary Sciences; Professor of Geosciences, and Professor in The Lunar and Planetary Laboratory; also Professor in the Global Change and in the Remote Sensing and Spatial Analysis Graduate Interdisciplinary
TT A 1.1	Programs, The University of Arizona
Home Address	2993 E. Placita Santa Lucia Tucson, Arizona 85716-0816
	Telephone (520) 405-8976
Professional Address	Department of Hydrology and Atmospheric Sciences
	J.W. Harshbarger Building, Room 122
	1133 E. James E. Rogers Way
	The University of Arizona
	Tucson, Arizona 85721-0011
	Telephone: (520) 621-7875; Fax: (520) 621-1422
	E-mail: baker@email.arizona.edu
Family Information	Married to Pauline M. (Heaton) Baker
-	Children: Trent, Theodore

FORMAL EDUCATION

Heidelberg American High School, Heidelberg, Germany (graduated 1963) Rensselaer Polytechnic Institute, Troy, New York: B.S., 1967, Geology University of Colorado, Boulder, Colorado: Ph.D., 1971, Geology

ACADEMIC AND PROFESSIONAL POSITIONS

1996-Present	Regents' Professor of Hydrology and Water Resources (now Hydrology and Atmospheric Sciences), Geosciences, and Planetary Sciences, The
	University of Arizona.
2012	Visiting Professor in the Fredy and Nadin Hermann Institute of Earth Sciences,
	Hebrew University of Jerusalem, Israel
1996-2004	Head, Department of Hydrology and Water Resources, The University
	of Arizona
2002-2012	Adjunct Professor, Centre for Geoscience and Engineering, Anna University,
	Chennai (Madras), India
1988-Present	Regents' Professor, The University of Arizona
1994-1995	Visiting Fellow, Udall Center for Studies in Public Policy, The University of
	Arizona
1988	Visiting Research Fellow, Department of Geology and Geophysics, The
	University of Adelaide, South Australia
1987-1988	Visiting Research Fellow, National Institute of Hydrology, Roorkee, India

1987-1988	Visiting Research Fellow, Department of Archaeology, Deccan College, Pune, India
1982-Present	Joint Appointment as Professor of Planetary Sciences/Lunar and Planetary
	Laboratory, The University of Arizona
1981-Present	Professor of Geosciences, The University of Arizona
1979-1980	Visiting Fellow, The Australian National University (Fulbright-Hays Senior
	Research Scholar)
1976-1981	Associate Professor to Professor, Department of Geological Sciences, The
	University of Texas at Austin
1973	Research Scientist, Bureau of Economic Geology, The University of Texas at
	Austin
1971-1976	Assistant Professor, Department of Geological Sciences, The University of
	Texas at Austin
1969-1971	City Geologist, City of Boulder, Colorado
1967-1969	Geophysicist, U.S. Geological Survey, AEC Hydrology Group, Denver,
	Colorado
1967	Geophysicist, U.S. Geological Survey, Water Resources
	Division, Albany, New York
1966-1967	Hydrological Field Assistant, U.S. Geological Survey, Water Resources
	Division, Albany, New York
1965-1966	Research Assistant in Sedimentology, Department of Geology, Rensselaer
	Polytechnic Institute, Troy, New York

HONORS AND AWARDS

2019	Recognized as an American Association for the Advancement of Science
	Lifetime Member (based on 50 years of membership)
	Invited "Luminary Speaker," Prognostics and Health Management Annual
	Conference, Scottsdale, Arizona, September 25
	Invited keynote speaker, 50 th Annual Meeting, Binghamton Geomorphology
	Symposium, Denver Colorado, October 12
2018	50-Year Fellow recognition, The Geological Society of America
	50-Year Fellow recognition, American Geophysical Union
2017	Invited Keynote Speaker for The Geological Society (London), Conference
	"The Evolution of Flooding and Flood Risk: Past, Present and Future"
	Burlington House, London, U.K., September 14-15
	Invited Keynote Lecturer for The Geological Society of America Rocky
	Mountain Section Meeting, Calgary, Alberta, Canada, June 9-10
	Article (Rodriguez et al., 2016) "Tsunami Waves Extensively Resurfaced
	Shorelines of an Early Mars Ocean" recognized as one of the top Scientific
	Reports articles of 2016 (of the 20,000 articles published that year)
2015	Awarded Outstanding Reviewer Status for the journal Geomorphology
2014	Harold McMaster Visiting Scientist, Bowling Green State University
	Certificate of "Excellence in Reviewing" for the journal <i>Planetary and Space</i>
	Science
2013	Invited Lecturer, Accademia Nazionale dei Lincei, Classe di Scienze Fisiche,

	Matematiche e Naturali, Palazzo Corsini, Rome, Italy Named an Inaugural Fellow, British Society for Geomorphology (FBSG)
2012-2013	Inaugural GSA Distinguished International Lecturer, The Geological Society of America
2011	John T. Loucks Distinguished Lecturer, Western South Dakota Hydrology Conference, Rapid City, South Dakota
	Sensors Best Paper Awards, 3 rd Prize for Denlin et al. (2005) - listed below.
2010	Distinguished Career Award , The Geological Society of America, Quaternary Geology and Geomorphology Division
2008	Inaugural David L. Weide Lecturer, University of Nevada Las Vegas
2007	NASA Group Achievement Award to the Earth Observing One Sensor-web Team. The certificate reads: "for outstanding achievement in the development of an operational 24/7 autonomous Earth Observing Sensor-web, integrating multiple space and ground sensors."
2005	NASA Group Achievement Award to the Autonomous Science-craft Experiment team (I was a team member). The certificate reads: "for outstanding accomplishments in demonstrating, as part of the Earth Observing-1 mission, the potential for space missions to increase total engineering and science data return by using spacecraft autonomous decision making." NASA Software of the Year Award, Certificate of Recognition "presented to Victor R. Baker, for the creative development of exceptional scientific and technical contributions which have determined to be of significant value in the advancement of the aerospace technology program of NASA, entitled The Autononmous Sciencecraft Experiment," September 6, 2005.
2003	Barringer Lecturer, University of Arkansas, Fayetteville, Arkansas
2003	Visiting Scientist, American Academy in Rome (Italy)
2002	University Distinguished Lecturer, Trinity University, San Antonio, Texas International Hydrological Decade Endowment Lecturer, Anna University, Chennai, India Don J. Easterbrook Distinguished Scientist Award of The Geological
	Society of America (awarded "to an individual who has shown unusual excellence in published research that has substantially increased knowledge in Quaternary geology and geomorphology")
2001	International Water and Science Award ("Gran Prix International de Cannes de l'Eau et de la Science"), presented at the European Union Third International Symposium on Water)
2000	Elected Fellow, Arizona/Nevada Academy of Sciences
1999	Elected Honorary Fellow, European Union of Geosciences (EUG), now the
	European Geosciences Union (EGU) Wreford Watson Lecturer, University of Edinburgh Cognell Silver Lecturer, University of New Maries
1998	Caswell Silver Lecturer, University of New Mexico Elected Fellow, American Geophysical Union Honorary West Virginian Award conferred by the governor of West Virginia
1995	Distinguished Bartle Lecturer, Binghamton University David Linton Award, British Society for Geomorphology, given for "a continuing major contribution to the science of geomorphology"
	a continuing major contribution to the science of geomorphology

1994	Institute for the Study of Planet Earth Fellow, Udall Center for Studies in Public Policy
	Elected Foreign Member of the Polish Academy of Sciences
1992	NASA Group Achievement Award for the Magellan Science Group to Victor
	R. Baker in recognition of outstanding achievement in performing the various science tasks that have been a major part of the successful Magellan mission.
1989	Elected Fellow, American Association for the Advancement of Science
1988	Regents' Professorship, The University of Arizona
1987-1988	Indo-American Fellowship (Awarded by the American Secretariat of the Indo-
	U.S. Subcommission on Education and Culture for a 2-month Project
	"Paleoflood Hydrology and the Indian Monsoon")
1979-1980	Fulbright-Hays Senior Research Scholar (Awarded for Research on
	Australian Paleofloods as a Visiting Research Fellow, The Australian National
	University)
1976	Elected Fellow, The Geological Society of America
1967-1970	National Defense Education Act Fellowship
1967	U.S. Army ROTC Distinguished Military Graduate and American Legion Gold Award for Military Excellence (served 1967-1975 U.S. Army Reserve to Rank of Captain)

NATIONAL ADVISORY COMMITTEES, PANELS, STUDY GROUPS

National Research Council

2014-2015	Committee to Review the Mars Exploration Program Analysis Group (MEGAG) Report for Mars Special Regions, Space Sciences Board
2010-2011	Chair, Planning Committee on Research and Application Needs in Flood Hydrology Science, Water Science and Technology Board
2002-2011	Committee on Hydrologic Sciences, Water Science and Technology Board
1997-2000	Water Science and Technology Board, Committee on USGS Water Resources Research
1995-1996	Board on Radioactive Waste Management's Committee for Yucca Mountain Peer Review: Surface Characteristics, Preclosure Hydrology, and Erosion
1995-1996	Committee on Alluvial Fan Flooding, Water Science and Technology Board
1990-1992	Panel on Scientific Responsibility and the Conduct of Research, Committee on Science, Engineering, and Public Policy
1990-1992	Committee on Global Change, Working Group on "Solid Earth Processes
1988-1992	Panel on Global Surficial Geofluxes, Geophysics Study Committee, Geophysics Research Board
1983-1996	United States National Committee for the International Union or Quaternary Research (INQUA); Vice-Chairman of Committee, 1987-1991; Chairman of Committee, 1991-1996
1986-1988	Committee on Glen Canyon Environmental Studies Review, Water Science and Technology Board
1985-1987	Committee on Techniques for Estimating Probabilities of Extreme Floods, Water Science and Technology Board

1983-1984	Committee on Natural Disasters, Member of Special Team to Conduct On-
	Site Study and Prepare Report on Tucson Flood of October, 1983
	(Commission on Engineering and Technical Systems)
1981-1984	Space Sciences Board, Committee on Earth Sciences, Space Science Board
1981	Geological Sciences Board Workshop, "Geology 2020, Forecasting the Next
	Chapter in the History of Mankind's Exploration and Exploitation of the
	Earth"
1978-1981	Panel on Scientific Basis of Water-Resource Management, Geophysics
	Research Board

National Science Foundation

1998-1999	GEO 2000, Hydrology Subcommittee Member
1993-1996	Hydrologic Sciences Working Group, Hydrologic Sciences Program

National Aeronautics and Space Administration

2004-2010	Gamma Ray Spectrometer Team (Adjunct Member), Mars Odyssey Mission
2000-2002	Solid Earth Sciences Working Group (Advisory to Associate Administrator for Earth Science)
1992-1994	Planetary Geology and Geophysics Management and Operations Working Group (Advisory to Planetary Geology and Geophysics Program)
1988-1989	Organizing Committee, Fourth International Conference on Mars
1985-1988	Member, Science Working Group, NASA Global Topographic Mapping Experiment
1984-1986	Mars Volatile Evolution and Climate History Working Group
1983-1994	Radar Investigation Group (RADIG) for the Magellan Space Mission to Venus
1982-1984	Planetary Geology and Geophysics Working Group (Advisory to Planetary Geology and Geophysics Program)
1982	Steering Committee for the new Research Initiative tentatively titled "Global Change: Impacts on Habitability"
1980-1982	VOIR Synthetic Aperture Radar Investigation Group
1978-1988	Chairman, Mars Channel Working Group, Planetary Geology and Geophysics Program
1977-1979	Orbital Imaging Team of the Viking Space Program (Guest Investigator)
1978	Leader, Comparative Planetary Geology Field Conference on the Channeled Scabland, Planetary Geology Program

Council for International Exchange of Scholars

1982-1985	Advisory Screening Committee for Fulbright Senior Scholar Awards in
	Geology Chairman of Committee 1983-1985

U.S. Department of Energy

1991-1992	Markers Panel, Waste Isolation Pilot Plant (WIPP), Sandia National
	Laboratory
1987	Peer Review Panel for Proposed Research on Calcite/Opaline Silica Deposits
	in Relation to the Nevada Nuclear Waste Storage Investigations
1986	Peer Review Panel for Hydraulics and Ecology of Disturbed Arid Landscapes,
	U.S. Department of Energy
1983-1989	Peer Review Panel for the Salt Host-Rock Portion of the U.S. National Waste
	Terminal Storage Program

U.S. Department of the Interior

1998-2000 Grand Canyon Monitoring and Research Center, Sediment Studies Peer-Review Panel

Universities Space Research Association - Lunar and Planetary Institute

2017	Convener, Fourth International Conference on Early Mars
2004	Organizing Committee, Second International Conference on Early Mars
1986	Organizing Committee, Symposium on Mars: Evolution of its Climate and
	Atmosphere
1985	Mars Observer Proposal Review Panel
1983-1985	Planetary Geology and Geophysics Review Panel
1983-1985	Mars Data Analysis Program Review Panel

INTERNATIONAL COMMITTEES

International Association of Geomorphologists

2014-2017	Member of the Scientific Committee for the 9th International Conference of the
	Association, New Delhi, India, 2017
2014-2015	Member of the International Scientific Committee for the Regional Conference,
	"Gradualism vs. Catastrophism in Landscape Evolution," Barnaul, Russia, July
	2-4, 2015
2011-2013	Member of the Scientific Committee for the 8th International Conference on
	Geomorphology, Paris, 2013
2006-2012	Chair, Planetary Geomorphology Working Group
1993-1997	Treasurer of the Association
1989-1997	Member of the Executive Committee
1989-1993	Co-Chair, Program Committee, Third International Conference on Geo-
	morphology; Member, Executive Committee, Third International Conference on Geomorphology
1985-1989	Advisory Associate of the Working Committee to Establish an International
	Association of Geomorphologists

International Union for Quaternary Research

2016-present	Steering Committee, TERPRO Focus Group on Palaeohydrology and Fluvial
	Archives – Extreme and Critical Events (HEX)
2003-2016	Member of the Steering Committee, INQUA Terrestrial Processes Commission
	(TERPRO) Focus Area on Hydrological Change and Climate
1999-2003	Vice-President, Commission on Global Continental Paleohydrology
1995-1999	President, Commission on Global Continental Paleohydrology
1995	Head, U.S. National Delegation to XIV INQUA Congress, Berlin, Germany,
	August 3-10, 1995
1991-1995	Vice-President, Commission on Global Continental Paleohydrology
1991-2016	Member (from initiation to completion), Commission on Global Continental
	Paleohydrology
1991	Vice-Chairman, U.S. National Delegation to XIII INQUA Congress, Beijing,
	China, August 2-9, 1991
1987-1991	Commission of the Holocene Working Group on Global Paleohydrology

International Union of the Geological Sciences

2012-2014	Organizing Committee for the International Union of Geological Sciences,
	International Commission on the History of Geological Sciences (INHIGEO)
	2014 Symposium 39 on "Doing the History of the Earth Sciences: What, Why
	and How?" to be held at Pacific Grove California in July 2014.
2012-2014	Co-Chair, Program Committee for the International Union of Geological
	Sciences, International Commission on the History of Geological Sciences
	(INHIGEO) 2014 Symposium 39 on "Doing the History of the Earth Sciences:
	What, Why and How?" held at Pacific Grove California in July 2014.
2002-2014	Member of the International Commission on the History of Geological Sciences
	(INHIGEO), International Union of the Geological Sciences and International
	Union of the History and Philosophy of Science.

PAGES (Past Global Changes)

2019-2022 Coordination Panel for Floods Working Group, Goal #3 – Contribution to Disaster Risk Reduction Agenda

OTHER ADVISORY COMMITTEES

1993-Present	Advisory Board, University of Arizona Press			
2008-2010	Member of Steering Committee, "New Directions: Science, Humanities,			
	Policy," a joint program of Colorado School of Mines and University of North			
	Texas.			
1992-1995	National Advisory Committee, Desert Research Institute, University of Nevada			
1991-2003	Chair, NSF-Arizona Accelerator Facility for Radioisotope Analysis, Users'			
	Oversight Committee			
1991-2001	Advisory Committee, Udall Center for Studies of Public Policy, University of			
	Arizona			
1985-1989	National Advisory Board, Department of Geological Sciences, University of			

Colorado, Boulder

PROFESSIONAL SOCIETY AND EDITORIAL POSITIONS

The Geological Society of America

2018	Pacagnition of 50 year Mambarchin					
2017	Recognition of 50-year Membership Field Trip Co-Leader, Annual Meeting, Seattle, WA					
2017	Field Trip Leader, Rocky Mountain Section Meeting, Moscow, ID					
2014-2015						
	Member, External Awards Committee Inaugural Distinguished International Lecturer International Division					
2012-2013	Inaugural Distinguished International Lecturer, International Division					
2008-2013	Ad Hoc Planning Committee for the 125 th anniversary meeting					
2011	Past Chair, History and Philosophy of Geology Division					
2010	Chair, History and Philosophy of Geology Division					
2010	Joint Technical Program Committee (2010 annual meeting)					
2009	Vice-Chair, History of Geology Division					
2009	Joint Technical Program Committee (2009 annual meeting)					
2008	Member, Ad Hoc Committee on Innovative Science					
2008	Second Vice-Chair, History of Geology Division					
2006-2007	Ad Hoc Committee on Innovative Science at GSA Meetings					
2004	Special Ad Hoc Panel on Geoscientists and Natural Hazards					
2002-2005	Committee on the Young Scientist Award (Donath Medal)					
2000	Ad Hoc Member, GSA Foundation Board of Trustees					
1999	Past-President of the Society					
1998	President of the Society					
1997	Vice-President of the Society					
1996-1999	Executive Committee and Long-Range Planning Committee					
1996-1999	Council Member					
1996-1997	Member, Committee on Education					
1994-1999	Member, Long-range Planning Committee, Quaternary Geology and					
	Geomorphology Division					
1993-1995	Member, Planetary Geology Division Gilbert Award Committee					
1993	Chairman, Committee on the Penrose Medal					
1993	Chairman, External Awards Committee					
1990-1993	Councilor					
1987	Chair, Quaternary Geology and Geomorphology Division					
1986	Chair, Planetary Geology Division					
1980-1982	Member, Committee on Geology and Public Policy					
1977-1978	Flood Hazards Panel, Committee on Environment and Public Policy					
1976-1978	Panel of the Quaternary Geology and Geomorphology Division and					
, , , , , , , , , , , , , , , , , , ,	Subcommittee to Select the Kirk Bryan Award Recipient					
1976	Elected Fellow of the Society					
1975-1982	Editorial Board, <i>Geology</i> (journal of the society)					
17/3-1704	Lational Board, Geology (Journal of the society)					

American Association for the Advancement of Science

2019-	Awarded Lifetime Member Status
2009-2010	Councilor
2008-2009	Chair of the Section on Geology and Geography (second time)
2007-2008	Chair-Elect for the Section on Geology and Geography (Section E)
1993-1994	Councilor
1992-1993	Chair of the Section on Geology and Geography
1989	Elected Fellow of the Association

American Geophysical Union

2018	Recognition of 50-year Membership
2017	Panelist, "The Great Debate" Panel at Annual Meeting
2009-2013	Member, Advisory Board for the AGU Natural Hazards Focus Group
2000-2001	Chair, Hydrology Section Award Committee
1998-2000	Member of the Hydrology Section Executive Committee
	Member of the Hydrology Section Award Committee
1998	Elected Fellow of the Union
1996-1997	Member, Robert E. Horton Medal Committee
1989-1991	Associate Editor, <i>Journal of Geophysical Research</i> (Solid Earth and Planets)

History of Earth Sciences Society

2015-2016	Councilor
2002-2013	Book Review Editor , <i>Earth Sciences History</i> (journal of the society)

British Geomorphological Society

2013- present	President's Advisory Group
2013	Inaugural Fellow of the Society

EDITORIAL BOARD MEMBERSHIPS

2012-Present	Editorial Board for the journal Geography and Environmental Hazards				
	(published by Ferdowsi University of Mashad, Iran)				
2006-2010	Editorial Advisory Board of <i>Bollettino della Società Geologica Italiana</i>				
2002-2013	Book Review Editor, Earth Sciences History				
2002-2006	Editorial Board, Canadian Geographer				
2000-2004	Editorial and Advisory Board, Studia Quaternaria				
1993-Present	Editorial Board, Zeitschrift für Geomorphologie				
1989-2000	Governing Board for the journal Radiocarbon				
1989-1991	Associate Editor, Journal of Geophysical Research (Solid Earth and				
	Planets)				
1986-present	Editorial Committee of The University of Arizona Press				
1986-2019	Editorial Board, Geomorphology (Elsevier Science Publishers)				
1985-1999	Advisory Board, Springer Series in Physical Environment (Springer-Verlag)				
1975-1982	Editorial Board, Geology				

PROFESSIONAL SOCIETY AFFILIATIONS

American Association for the Advancement of Science (Lifetime Member; Fellow since 1989)

American Geophysical Union (Member since 1968; Fellow since 1998)

American Quaternary Association (Charter member since its inception in 1970)

Arizona Geological Society (since 1982)

British Society for Geomorphology (Member since 1981, Inaugural Fellow since 2013)

C.S. Peirce Society (since 1988)

Geological Society of America (Member since 1968; Fellow since 1976)

History of Earth Sciences Society (since 1994)

National Speleological Society (since 1965)

Society of Sigma Xi (since election in 1967)

STUDENTS AND POSTDOCTORAL SCHOLARS

16 postdoctoral scholars supervised; 69 completed graduate degrees/theses supervised (40 M.S. and 29 Ph.D.); external examiner for 15 international Ph.D. dissertations; currently supervising one M.S. and two Ph.D. students plus one postdoc.

ABBREVIATED PUBLICATIONS LIST Victor R. Baker

This following lists 21 scientific books/monographs, plus 442 articles and chapters. The Full CV (130 pages) lists more than 1100 published contributions, including more than 550 abstracts and short research reports, nearly all of which are associated with papers presented at professional meetings, conferences, and workshops; 34 extended technical reports; 46 encyclopedia articles; 39 published book reviews; plus guidebook contributions and various other writings, including popular works.

- 2020 Baker, V.R., in preparation, The Oceans of Mars: The Personal History of an Outrageous Geological Hypothesis. (Book #21)
 - Baker, V.R., in preparation, Thinking the Stone: The Slaty Cleavage Controversy and Geological Reasoning. (Book #20)
 - Carling, P.A., **Baker, V.R**., and Herget, J., editors, 2020, Catastrophic Freshwater Paleoflooding on Earth: A Global Perspective: Elsevier (Earth-Science Reviews Special Volume). (Book #19)
 - Baker, V.R., 2020, Global megaflood paleohydrology, in Herget, J. and Fontana, A., editors, Palaeohydrology. Geography of the Physical Environment: Springer, Heidelberg, p. 3-28. (442)
 - Baker, V.R., in press, Megafloods and large rivers, in Gupta, A., editor, Large Rivers: Wiley, N.Y. (441
 - Baker, V.R., submitted, Problems of landscape evolution in the Finke River transverse drainage of the central mountain ranges, Australia: Studia Geomorphologica Carpatho-Balcanica (SGCB) Special Issue "Landform Evolution in Mountains and Their Foreland" (440)

- Baker, V.R., in preparation, Peircian perspectives on the global climate change controversy, in Hermann-Pillath, C., and North, W., editors, Semiotics and Economics, Special Issue of *Recherches sémiotiques/Semiotic Inquiry* (RS/SI; Montreal) (439)
- Baker, V.R., 2020, The modern evolution of geomorphology: Binghamton and personal perspectives, 1970-2019 and beyond: Geomorphology, v. 366, 10668 DOI: https://doi.org/10.1016/j.geomorph.2019.02.028 (438)
- Baker, V.R., and Carling, P.A., 2020, Global Late Quaternary Megafloods, in Shroder, J. (Editor in Chief), Wohl, E.E. (Ed.), Treatise on Geomorphology, 2nd Edition, Vol. 9, Fluvial Geomorphology: Elsevier, 8 p. (437)
- Baker, V.R., Liu, T., and Ji, L., in press, Global Late Quaternary Fluvial Paleohydrology: With Special Emphasis on Paleofloods, in Shroder, J. (Editor in Chief), Wohl, E.E. (Ed.), Treatise on Geomorphology, 2nd Edition, Vol. 9, Fluvial Geomorphology: Elsevier. (436)
- Baker, V.R., Liu, T., and Ji, L., submitted, Paleo- and historical flood hydrology, in Eslamian, S., editor, 2020 Flood Handbook: Taylor and Francis. (435)
- Carling, P.A., Baker, V.R., and Herget, J., 2020, Catastrophic freshwater paleoflooding on Earth: Earth Science Reviews, v. 204, 103177. (434)
- Li, J., Baker, V.R., Gupta, H, Ferré, T, Liu, T., Guertin, P., in preparation, A machine-learning approach to morphometry-extreme flood links in the Lower Colorado River Basin (433)
- Liu, T. and **Baker**, **V.R**., in preparation, Nature of Channeled Scabland megaflooding in the northwestern U.S.: New insights from 2D hydraulic simulations. (432)
- Liu, T., Ji, L., **Baker, V.R**., Harden, T.M., and Cline, M.L., 2020, Holocene extreme paleofloods and their climatological context, upper Colorado River Basin, USA. Progress in Physical Geography, DOI: 10.1177/0309133320904038 (431)
- Liu, T., **Baker, V.R.**, Huang, C.H., and Ji, L., in preparation, Paleoflood hydrology in China, a Review. (430)
- Lotsari, E., House, P.K., Alho, P., and **Baker, V.R**., in preparation, Comparisons of decadal fluviomorphic evolutionary trajectories of two ephemeral channels after channel-forming extraordinary floods. (429)
- O'Connor, J.E., **Baker, V.R**., Waitt, R.B., Smith, L.N., Cannon, C.M., George, D.L., and Denlinger, R.P., 2020, The Missoula and Bonneville Floods—A review of iceage megafloods in the Columbia River Basin: Earth-Science Reviews, https://doi.org/10.1016/j.earscirev.2020.103181 (428)
- Rodriguez, J.A.P., **Baker, V.R**., Liu, T. Hui, T., Kargel, J.S., Gulick, V., Zarroca, M.M., Komatsu, G., Berman, D. C., and Linares R., in preparation, Evidence of Early Mars Ocean Floor Materials in a Mega-Tsunami Deposit. (427)
- Rodriguez, J.A.P., Noe Dobrea, E., Kargel, J.S., **Baker, V.R.**, and 5 others, 2020, Oldest highlands of Mars may be massive dust fallout deposits: Nature Scientific Reports 10: 10347. https://doi.org/10.1038/s41598-020-64676-z (426)
- Rodriguez, J.A.P., Leonard, G. J, Kargel, J.S, Domingue, D., Berman, D.C., Banks, M., Zarroca, M., Linares, R., Marchi, S., **Baker, V.R**., Webster, K.D., and Sykes, M., 2020, The chaotic terrains of Mercury reveal a history of planetary volatile retention and loss in the innermost solar system: Nature Scientific Reports, v. 10, article 4737.

- Rodriguez, J.A.P., et al. (incl. **Baker, V.R**.), N., in preparation, Viking 1 lander may have landed on an early Mars megatsunami deposit: Nature Scientific Reports. (424)
- Rodriguez, J.A.P., Tanaka, K.L., Branson, A., Leonard, G. J., and **Baker, V.R**., in revision, Evidence of the youngest large-scale erosion event of the north polar plateau of Mars Nature Scientific Reports. (423)
- 2019 Baker, V.R., 2019, The abductive approach to synthetic autonomous reasoning, in Proc. SPIE 10982, Micro- and Nanotechnology Sensors, Systems, and Applications XI; (7p.) 1098224, (13 May 2019); doi: 10.1117/12.2519151 (422)
 - Blösch, G. and 200 others (including **Baker**, **V.R.**), 2019, Twenty-three unsolved problems in hydrology (UPH)—a community perspective: Hydrological Science Journal, v. 64, no. 10, p. 1141-1158. (421)
 - Fairén, A.G., Schulze-Makuch, D., Whyte, L., Parro, V., Pavlov, A., Gómez-Elvira, J., Azua-Bustos, A., Fink, W., and **Baker, V.R.**, 2019, Planetary protection and the astrobiological exploration of Mars: Proactive steps in moving forward: Advances in Space Research, v. 63, issue 5, p. 1491-1497. (420)
 - Fink, W., **Baker, V.R**, Brooks, A. J.-W., Flammia, M., M.A, Dohm, J., Tarbel, 2019, Globally Optimal Rover Traverse Planner using Dijkstra's Algorithm For Multi-Objective Deployment Scenarios: Planetary and Space Science, v. 179, https://doi.org/10.1016/j.pss.2019.104707. (419)
 - Liu, T., Greenbaum, N., **Baker, V.R.**, Ji, L., Onken, J., Weisheit, J., Porat, N. Rittenour, T., 2019, Paleoflood hydrology of the lower Green River, upper Colorado River Basin, USA: An example of a naturalist approach to flood-risk analysis: Journal of Hydrology, doi: https://doi.org/10.1016/j.jhydrol.2019.124337 (418)
 - Rodriguez, J.A.P., **Baker, V.R**., Liu, T., Zarroca, M. Travis, B, Hui, T., Komatsu, G., Berman, D.C., Linares, R., Sykes, M., Banks, M., and Kargel, J.S., 2019, The 1997 Mars Pathfinder Spacecraft Landed on Spillover Flood Deposits from an Early Mars Inland Sea: Nature Scientific Reports 9(1), 4045. doi:10.1038/s41598-019-39632-1
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