



UNIVERSITY OF GUAM  
UNIBETSEDÅT GUÅHAN  
Board of Regents

Resolution No. 22-41

**RELATIVE TO AWARDING EMERITUS DIRECTOR OF WATER & ENVIRONMENTAL  
RESEARCH INSTITUTE OF THE WESTERN PACIFIC STATUS  
TO DR. JOHN W. JENSON**

**WHEREAS**, the University of Guam (UOG) is the primary U.S. Land Grant and Sea Grant institution accredited by the Western Association of Schools and Colleges Senior College and University Commission serving the post-secondary needs of the people of Guam and the Western Pacific region;

**WHEREAS**, the authority to bestow the title of Emeritus Director is vested in the Board of Regents (BOR) resolution 1987 and the criteria and procedures were revised by BOR resolutions in 1999, 2001, and 2019;

**WHEREAS**, Dr. Ross Miller, Interim Director of the Water & Environmental Research Institute (WERI) of the Western Pacific has nominated Dr. John W. Jenson for the title of Emeritus Director of WERI;

**WHEREAS**, the *Rules, Regulations, and Procedures Manual*, Article II.E.5., as amended, provides the criteria for Emeritus Director, to include ten (10) years of service as a full-time faculty member and/or administrator; at least three (3) years of service in the position for which the Emeritus(a) status is to be bestowed; and has distinguished himself/herself by making significant contributions to UOG;

**WHEREAS**, Dr. John W. Jenson has over 29 years of service as a full-time faculty member and/or administrator at UOG;

**WHEREAS**, Dr. John W. Jenson served a total of over six (6) years as Interim Director of WERI from August 2016 to September 2022;

**WHEREAS**, Dr. John W. Jenson has distinguished himself and is known for his expertise in both basic and applied aspects of island groundwater hydrology and environmental science, of which his research portfolio, including the thesis work of his students, included: mapping the Northern Guam Lens Aquifer (NGLA); numerical modeling of the NGLA, Pacific Island atoll aquifers; the evolution of limestone island aquifers in general, and NGLA in particular; hydrologic characteristics of the NGLA, including percolation, recharge, discharge, hydraulic properties, and long-term salinity patterns and trends in Guam's production wells; and the reconstruction of the prehistoric climatic conditions of Guam and the west Pacific region; management of the NGLA and protection of groundwater quality. Dr. Jenson's applied work on Guam's drinking water includes assessment of sinkholes and other drainage features on new construction sites, evaluation of newly drilled and rehabilitated wells, evaluation of rehabilitation potential for long-out-of-service wells, and reconnaissance of promising sites for new production wells. Recently

completed work includes a hydrogeologic study of Santa Rita Spring to provide engineering design recommendations to Guam Waterworks Authority for rehabilitation. He is currently working with the Guam Environmental Protection Agency to develop an updated approach to aquifer protection, which will account for economic constraints as well as hydrologic conditions;

**WHEREAS**, Dr. Jenson's service to UOG includes service as Chair of the Faculty Council Executive Committee and member of the Faculty Senate Organizing Committee, (1999-2000); member of the UOG Presidential Search Committee, 2001; and President of the First (1st), Second (2nd), and Fourth (4th) Faculty Senates, and at other times as Senate Parliamentarian and Chair of its Standing Committees on Institutional Excellence and Faculty Excellence during a total of fifteen (15) years of service in the Faculty Senate;

**WHEREAS**, as Director of WERI from 2016 to the present, Dr. Jenson fostered interagency working relationships, internal and external scientific collaborations, strategic planning, quality management, and continued commitment to providing reliable and objective scientific support for the benefit of Guam and the Western Pacific region. WERI retained its place as one of the top-rated among the nation's fifty-four (54) water resources research institutes, with the United States Geological Survey rating it as one (1) of the twelve (12) outstanding institutes in the latest five (5)-year review. Dr. Jenson's term as WERI Director also saw the rehabilitation and expansion of the Comprehensive Water Monitoring Program, along with the implementation of the One Guam Water Resources Information Program and the acquisition of funding for a new building for WERI, with expanded laboratory and teaching facilities;

**WHEREAS**, the enclosed nomination was reviewed and recommended for approval by the Administrative Council, Senior Vice President & Provost, and President; and


**WHEREAS**, the Academic, Personnel and Tenure Committee has reviewed the enclosed nomination and recommends to the BOR to award the title of Emeritus Director of WERI to Dr. John W. Jenson.

**NOW, THEREFORE, BE IT RESOLVED**, that the BOR hereby bestows the title of Emeritus Director of WERI to Dr. John W. Jenson, effective the date of this resolution.

Adopted this 17<sup>th</sup> day of November, 2022.

  
\_\_\_\_\_  
Liza J. Provideo, Chairperson

**ATTESTED:**

  
\_\_\_\_\_  
Thomas W. Krise, Ph.D., Executive Secretary



## Emeritus(a) Vice President or Provost, Dean, or Director Nomination Form

A current curriculum vitae describing nominee's times in positions and significant contributions **must** be submitted with this form.

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### Nominee Information

Name of Nominee: John W. Jenson

Rank/Specialty (at Retirement): Professor/Director Unit: WERI

Years of Service as FT Faculty and/or Administrator at UOG: 29 Retirement Date: Oct 1, 2022

Emeritus(a) Position Requested: Director Years of Service in Position: 6

Mailing Address: 81 Antietam Drive, Morgantown WV 26508

Email address: jjenson@triton.uog.edu Contact Number(s): 671-777-0203

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### Nominator Information

*(Complete this section only if you are not the nominee.)*

In addition to self-nominations, a nomination must originate from one of the following:  
immediate supervisor.

Name of Nominee or Immediate Supervisor: Rachel T. Leon Guerrero

Email address: rachaeltlg@triton.uog.edu Contact Number(s): 671-735-2170

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**Criteria for Emeritus(a) Vice President or Provost, Dean, or Director**

(Nominee *must* meet all three (3) criteria for eligibility)

1. Has at least ten (10) years of service as a full-time faculty member and/or administrator at the University of Guam.
2. Has at least three (3) years of service in the position for which the Emeritus(a) status is to be bestowed.
3. Has distinguished himself/herself by making significant contributions to the University of Guam.

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**Nomination Procedures for Emeritus(a) Vice President, Dean, or Director**

1. Requests for Emeritus(a) status originate from the individual or from the immediate supervisor of the administrator.
2. The requests are submitted consecutively in the following order: appropriate Administrative Supervisor, Administrative Council, appropriate Vice President (if applicable), and President. Each shall make a recommendation, in turn, to the Board of Regents.
3. Nominations for the titled status of Emeritus(a) Vice President or Provost, Dean, or Director shall begin with the submission of the nomination form, with a current curriculum vitae (CV) attached, to the immediate supervisor from which the nominee is serving or has retired.
4. Nominations shall be reviewed by the appropriate Administrative Supervisor, Admin Council, appropriate Vice President (if applicable), and President. If the appropriate Administrative Supervisor is also a Vice President, then both forms should be signed. The difference is that the concurrence as the respective Vice President also includes informing the President of the Society of Emeritus Professors & Retired Scholars (SEPRS) of the application.
5. The Board of Regents shall have the final determination concerning the granting of the Emeritus(a) status. It is the responsibility of the Executive Secretary of the BOR to notify both the newly granted Emeritus(a) Vice President or Provost, Dean, or Director and the President of SEPRS of the conferred status. The newly granted Emeritus(a) Vice President or Provost, Dean, or Director shall be presented with a certificate of recognition of status by the UOG President.

## MEMORANDUM

**TO: Dr. Anita Enriquez Borja, SVPP**

**FROM: Dr. Rachael Leon Guerrero, Vice Provost**



**DATE: October 14, 2022**

**RE: Nomination of Dr. John Jenson as Emeritus Director**

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On behalf of the WERI team, I would like to submit the attached nomination packet for Dr. John W. Jenson, who has over 29 years of service as a full-time faculty member and/or administrator at UOG. Dr. Jenson is being nominated for Emeritus Director, and the following information will provide some insights into his incredible contributions to the University of Guam over the past three decades.

Dr. John W. Jenson has distinguished himself and is known for his expertise in both basic and applied aspects of island groundwater hydrology and environmental science, of which his research portfolio, including the thesis work of his students, included: mapping the Northern Guam Lens Aquifer (NGLA); numerical modeling of the NGLA, Pacific Island atoll aquifers; the evolution of limestone island aquifers in general, and NGLA in particular; hydrologic characteristics of the NGLA, including percolation, recharge, discharge, hydraulic properties, and long-term salinity patterns and trends in Guam's production wells; and the reconstruction of the prehistoric climatic conditions of Guam and the west Pacific region; management of the NGLA and protection of groundwater quality. Dr. Jenson's applied work on Guam's drinking water includes assessment of sinkholes and other drainage features on new construction sites, evaluation of newly drilled and rehabilitated wells, evaluation of rehabilitation potential for long-out-of-service wells, and reconnaissance of promising sites for new production wells. Recently completed work includes a hydrogeologic study of Santa Rita Spring to provide engineering design recommendations to Guam Waterworks Authority for rehabilitation. He is currently working with the Guam Environmental Protection Agency to develop an updated approach to aquifer protection, which will account for economic constraints as well as hydrologic conditions

Dr. Jenson's service to UOG includes service as Chair of the Faculty Council Executive Committee and member of the Faculty Senate Organizing Committee, (1999-2000); member of the UOG Presidential Search Committee, 2001; and President of the First (1st), Second (2nd), and Fourth (4th) Faculty Senates, and at other times as Senate Parliamentarian and Chair of its Standing Committees on Institutional Excellence and Faculty Excellence during a total of fifteen (15) years of service in the Faculty Senate.

As Director of WERI from 2016 to the present, Dr. Jenson fostered interagency working relationships, internal and external scientific collaborations, strategic planning, quality management, and continued commitment to providing reliable and objective scientific support for the benefit of Guam and the Western Pacific region. WERI retained its place as one of the top-rated among the nation's fifty-four

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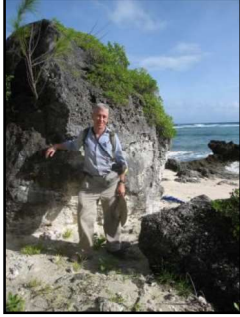
(54) water resources research institutes, with the USGS rating it as one (1) of the twelve (12) outstanding institutes in the latest five (5)-year review. Dr. Jenson's term as WERI Director also saw the rehabilitation and expansion of the Comprehensive Water Monitoring Program, along with the implementation of the One Guam Water Resources Information Program and the acquisition of funding for a new building for WERI, with expanded laboratory and teaching facilities

Dr. Jenson is very deserving of the distinction and an 'Emeritus Director' status. Please contact me if you have any questions.

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## John W. Jenson, PhD

Director, Chief Hydrogeologist & Professor of Environmental Geology  
Water & Environmental Research Institute of the Western Pacific  
University of Guam

Mangilao, GU 96923

Phone: 671-735-2689 (GMT+10 hr)

jjenson@triton.uog.edu

*Ph.D. Geology (minors in Civil Engineering, Water Resources), Oregon State University*

*M.A. Applied Economics, University of Michigan*

*B.S. Economics, US Air Force Academy, Distinguished Graduate*

Dr. Jenson's research encompasses both applied and fundamental aspects of island groundwater hydrology and environmental science. Recent work on Guam's groundwater includes assessments of sinkholes and other drainage features on new construction sites, evaluation of newly-drilled and rehabilitated wells, evaluation of rehabilitation potential for long-out-of-service wells, and reconnaissance of promising sites for new production wells in Guam's 120+ production-well system. Past applied work includes a comprehensive hydrogeological evaluation of the stormwater drainage potential of a large sinkhole on Andersen Air Force Base, adjacent to an aircraft parking facility. Recently completed work includes a hydrogeologic study of Santa Rita Spring to provide engineering design recommendations for rehabilitation, and a numerical modeling study to evaluate sustainable yield from the Northern Guam Lens Aquifer. Recent work also includes a hydrogeologic field study of the Finegayan Basin, northwest Guam; a field study of vadose percolation in the aquifer; and a long-term study of salinity patterns and trends in Guam's production wells. Basic geological projects have included mapping the geology of the Northern Guam Lens Aquifer and updating the general geologic map of Guam. Previous regional work includes field and numerical modeling studies of atoll island aquifers in the Caroline Islands. From 1997 through 2013, Dr. Jenson collaborated with Dr. John Mylroie of Mississippi State University to develop and apply the *Carbonate Island Karst Model* to the region's tectonically active limestone-capped islands: Guam, Saipan, Tinian, and Rota in the Mariana Islands, and Fais, the one raised limestone island in the Caroline Islands. Work on Fais also included a survey of water resource potential, water-use patterns, and recommendations for integrated use of groundwater wells and rainwater catchments for meeting routine and emergency needs. Dr. Jenson's basic scientific research activities also include collaborative work with Dr. Jay Banner, University of Texas-Austin, to characterize Guam paleoclimate from speleothems and corals, along with related topics, including sea-level history, coastal speleogenesis and the hydrogeological evolution of the aquifer. Earlier work includes modeling dynamic behavior of ice sheets and evaluating underlying hydrological processes. Dr. Jenson also served 30 years total active and reserve service in the US Air Force, retiring at the rank of colonel in 2005.

### Graduate Students Advised and Theses Completed (short titles)

1. John Jocson, MS, 1998: Recharge of the Northern Guam Lens Aquifer from a Modeling Study
2. \*Danko Taboroši, MS, 2000: Karst Inventory of Guam
3. Mauryn McDonald, MS, 2001: Salinity on Guam Water Wells
4. David Moran, MS, 2002: Dye Trace of Harmon Sink, Guam
5. \*Kevin Stafford, MS, 2004 (w/John Mylroie, MSU): Karst Features of Tinian and Aguijan
6. Monty Keel, MS, 2005 (w/John Mylroie, MSU): Karst Features of Rota
7. Curt Wexel, MS, 2006: Karst Features of Saipan
8. \*Robert MacCracken, MS, 2006: Water Resources of Fais Island, Federated States of Micronesia
9. Michelle Hoffman, MS, 2007: Fluorescence in Guam's Coastal Waters
10. \*Ryan Bailey, MS, 2008: A Groundwater Model for Atoll Island Aquifers
11. \*Blaž Miklavič, MS, 2010 (w/John Mylroie, MSU): Pleistocene Sea-Level History of Guam
12. \*Tomoko Bell, MS, 2011: Fifty-Year Climatic Record of Guam from Coral at Gabgab Beach
13. \*Christine Simard, MS, 2012: Salinity Trends and Patterns in the Northern Guam Lens Aquifer
14. Sarah McCann, MS, 2012 (w/John Mylroie, MSU): Meteorology of Jinapsan Cave, Guam
15. Viviana Bendixson, MS, 2013: Hydrologic Database of the Northern Guam Lens Aquifer
16. David Vann, MS, 2014: Basement Topography of the Northern Guam Lens Aquifer
17. Ida Shalilian, MS, 2017: Hydrogeology of the Finegayan Basin, Northern Guam Lens Aquifer
18. \*Kaylyn Bautista, MS, 2017: Vadose hydrology of Jinapsan Cave, Guam
19. Paul Bourke, MS, 2020: Hydrogeology and Rehabilitation of Santa Rita Spring, Guam
20. \*Maria Villareal, MS, 2021: Mapping of Ayuyu Cave Coastal Spring, Northwest Guam

\*Winners of UOG Presidential Thesis Award for outstanding graduate thesis of the year

\*Went on to earn Ph.D.

### Journal articles (five most recent)

- Carlson, P.E., Noronha, A.L., Banner, J.L., Jenson, J.W., Moore, M.W., Partin, J.W., Deininger, M., Breecker, D.O., Bautista, K.K. (2020). "Constraining speleothem oxygen isotope disequilibrium driven by rapid CO<sub>2</sub> degassing and calcite precipitation: Insights from monitoring and modeling," *Geochimica et Cosmochimica Acta*, 284: 222–238, doi.org/10.1016/j.gca. 2020.06.012
- Beal, L.K., Wong, C.I., Bautista, K.K., Jenson, J.W., Banner, J.L., Lander, M.A., Gingerich, S.B., Partin, J.W., Hardt, B.F., van Oort, N.H. (2019). "Isotopic and geochemical assessment of the sensitivity of groundwater resources of Guam, Mariana Islands, to intra- and inter-annual variations in hydroclimate," *Journal of Hydrology* 568: 174-183, doi.org/10.1016/j.jhydrol. 2018.10.049
- Gingerich, S.B., Johnson, A.G., Rosa, S.N., Marineau, M.D., Wright, S.A., Hay, L.E., Widlansky, M.J., Jenson, J.W., Wong, C.I., Banner, J.L., Keener, V.W., and Finucane, M.L. (2019). "Water resources on Guam—Potential impacts of and adaptive response to climate change," U.S. Geological Survey Scientific Investigations Report 2019–5095, 55 p., doi.org/10.3133/ sir20195095.
- Bell, T., Lander, M.A., Jenson, J.W., Randall, R.H., Partin, J.W., Prouty, N.G. (2019). A 50-Year Sr/Ca Time-Series from an Enclosed, Shallow-Water Guam Coral: *In situ* Monitoring and Extraction of a Temperature Trend, Annual Cycle, and ENSO and PDO Signals. *Journal of Coastal Research* 35(2): 269-286.
- Norhana, A.L., Hardt, B.F., Banner, J.L., Jenson, J.W., Partin, J.W., James, E.W., Lander, M.A., and Bautista, K.K. (2017). "Trade Winds Drive Pronounced Seasonality in Carbonate Chemistry in a Tropical Western Pacific Island Cave—Implications for Speleothem Paleoclimatology," *Geochemistry, Geophysics, Geosystems*. 18(1): 384-399. doi 10.1002/2016GC006644.

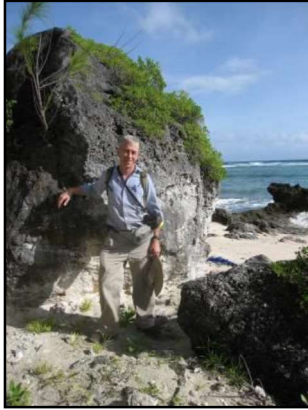
### Technical reports (five most recent)

- Bourke, P., Jenson, J.W., Habana, N.C., Lander, M.A. (2020). "A Hydrogeologic Survey of Santa Rita Spring, Guam: Engineering and Design Recommendations for Rehabilitation," *WERI Technical Report No. 172*: 84.
- Superales, D.V.G., Habana, N.C., Jenson, J.W. (2019). "Defining and Evaluating Production Capacity for the Northern Guam Lens Aquifer," *WERI Technical Report No. 170*: 57 p.
- Dougher, B., Habana, N.C., Jenson, J.W., Lander, M.A., Ho, K., Aguilar, G.C. (2019). "Dynamic Response of the Freshwater Lens to Natural Variations in Recharge, Northern Guam Lens Aquifer, Yigo-Tumon Basin," *WERI Technical Report No. 168*: 45 p.
- Bautista, K.K., Jenson, J.W. Lander, M.A. and Righetti, T. (2018). "Vadose Hydrology at Jinapsan Cave, Northern Guam," *WERI Technical Report No. 63*, Water and Environmental Research Institute of the Western Pacific, University of Guam, Mangilao, Guam, 130 p.
- Beikmann, A., Bailey, R.T., Jenson, J.W., Kottermair, M., Taboroši, D., Bendixson, V., Flowers, M., Jalandoni, A., B., M. and W., W. (2015). "Enough Water for Everyone? A Modeling Study of Freshwater Resources for Selected Atolls of Yap State, FSM," *WERI Technical Report No. 158*: online.

### Conference proceedings (five most recent)

- Simard, C.A., Jenson, J.W. and Lander, M.A. (2015). *Analysis of Salinity in the Northern Guam Lens Aquifer*. Proceedings of the 16th Symposium on the Geology of the Bahamas and other Carbonate Regions, Gerace Research Center, San Salvador Island, Bahamas.
- Habana, N.C., Salvacion, J.L., Jenson, J.W. and Rouse, J.D. (2013). *Vadocarge-N: A Vadose Flow and N-Transport Simulation Model for the Northern Guam Lens Aquifer*. Conference: International Conference on Sustainable Environmental Technologies, Pasay City, Manila, Philippines.
- Miklavič, B., Mylroie, J.E., Jenson, J.W., Randall, R.H., N.Z., L. and Taboroši, D. (2012). Denudation of Eogenetic Limestone During the Last Glacial Cycle in a Tropical Environment. *20th International Karstological School "Classical Karst": Karst forms and processes*. Karst Research Institute, Postojna, Slovenia.
- Miklavič, B., Mylroie, J.E., Jenson, J.W., Randall, R.H., Banner, J.L. and Partin, J.W. (2010). *Interglacial Limestone and Its Geomorphic Features on Guam: Implications for Relative Sea Level Changend Flank Margin Cave Formation*. 15th Symposium of the Geology of the Bahamas and other Carbonate Regions, Gerace Research Center, San Salvador Island, Bahamas.
- Hoffman, S.M., Jenson, J.W., Moran, D.C. and Denton, G.R.W. (2010). *Background Fluorescence in Groundwater from a Tropical Island-Karst Aquifer*. AWRA 2010 Summer International Specialty Conference & 8th Caribbean Islands Water Resources Congress on Tropical Hydrology and Sustainable Water Resources in a Changing Climate, San Juan, Puerto Rico, American Water Resources Association.





## **John W. Jenson, PhD**

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*Ph.D. Geology (minors in Civil Engineering & Water Resources), Oregon State University*

*M.A. Applied Economics, University of Michigan*

*B.S. Economics, US Air Force Academy, Distinguished Graduate*

### **Graduate Students Advised and Theses Completed (short titles)**

1. John Jocson, MS, 1998: Recharge of the Northern Guam Lens Aquifer from a Modeling Study
2. †Danko Taboroši, MS, 2000: Karst Inventory of Guam
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12. †Tomoko Bell, MS, 2011: Fifty-Year Climatic Record of Guam from Coral at Gabgab Beach
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16. David Vann, MS, 2014: Basement Topography of the Northern Guam Lens Aquifer
17. Ida Shalilian, MS, 2017: Hydrogeology of the Finegayan Basin, Northern Guam Lens Aquifer
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## Journal articles

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Beal, L.K., Wong, C.I., Bautista, K.K., Jenson, J.W., Banner, J.L., Lander, M.A., Gingerich, S.B., Partin, J.W., Hardt, B.F., van Oort, N.H. (2019). "Isotopic and geochemical assessment of the sensitivity of groundwater resources of Guam, Mariana Islands, to intra- and inter-annual variations in hydroclimate," *Journal of Hydrology* 568: 174-183, doi.org/10.1016/j.jhydrol. 2018.10.049

Gingerich, S.B., Johnson, A.G., Rosa, S.N., Marineau, M.D., Wright, S.A., Hay, L.E., Widlansky, M.J., Jenson, J.W., Wong, C.I., Banner, J.L., Keener, V.W., and Finucane, M.L. (2019). "Water resources on Guam—Potential impacts of and adaptive response to climate change," U.S. Geological Survey Scientific Investigations Report 2019–5095, 55 p., doi.org/10.3133/sir20195095.

Bell, T., Lander, M.A., Jenson, J.W., Randall, R.H., Partin, J.W., Prouty, N.G. (2019). A 50-Year Sr/Ca Time-Series from an Enclosed, Shallow-Water Guam Coral: *In situ* Monitoring and Extraction of a Temperature Trend, Annual Cycle, and ENSO and PDO Signals. *Journal of Coastal Research* 35(2): 269-286.

Norhana, A.L., Hardt, B.F., Banner, J.L., Jenson, J.W., Partin, J.W., James, E.W., Lander, M.A., and Bautista, K.K. (2017). "Trade Winds Drive Pronounced Seasonality in Carbonate Chemistry in a Tropical Western Pacific Island Cave—Implications for Speleothem Paleoclimatology," *Geochemistry, Geophysics, Geosystems*. 18(1): 384-399. doi 10.1002/2016GC006644.

Prouty, N.G., Storlazzi, C.D., McCutcheon, A.L. and Jenson, J.W. (2014). "Historic Impact of Watershed Change and Sedimentation to Reefs Along West-Central Guam." *Coral Reefs* May 18, 2014: doi 10.1007/s00338-00014-01166-x.

Taboroši, D., Jenson, J. and Stafford, K.W. (2014). "Artefatos Militares E Uso De Cavernas Durante a Segunda Guerra Mundial Nas Ilhas Marianas, Pacífico Oeste (World War II Artifacts and Wartime Use of Caves in the Mariana Islands, Western Pacific)." *Caderno de Geografia* 24(42): 218-231.

Habana, N.C., Heitz, L.F., Jenson, J.W. and Salvacion, J.L. (2103). "Vadocharge: Groundwater Recharge Model for an Uplifted Island Karst Aquifer, Guam, USA." *International Journal of Environmental Engineering Science and Technology Research* 1(8): 141-164.

Stafford, K.W., Taboroši, D. and Jenson, J.W. (2013). Caves and Karst Hydrology of the Mariana Islands. *Coastal Karst Landforms*. Lace, M.J. and Mylroie, J.E. Dordrecht, Springer. 5: 277-298.

Bailey, R.T. and Jenson, J.W. (2013 ). "Effects of Marine Overwash for Atoll Aquifers: Environmental and Human Factors." *Groundwater* 52(5): 694-704.

Rotzoll, K., Gingerich, S.B., Jenson, J.W. and El-Kadi, A.I. (2013). "Estimating Hydraulic Properties from Tidal Attenuation in the Northern Guam Lens Aquifer, Territory of Guam, USA." *Hydrogeology Journal* 21(3): 643-654.

Taborosi, D., Jenson, J.W. and Mylroie, J.E. (2013). "Field Observations of Coastal Discharge from an Uplifted Carbonate Island Aquifer, Northern Guam, Mariana Islands: A Descriptive Geomorphic and Hydrogeologic Perspective " *Journal of Coastal Research* 29(4): 926 – 943.

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