

Adam M. Milewski

Associate Professor – University of Georgia

Director: Water Resources & Remote Sensing Laboratory (WRRS: <http://wrrs.uga.edu>)

Co-Director: Advancing Research and Capacity in Hydrologic Education and Science (ARCHES: <http://arches.wrrs.uga.edu>)

EDUCATION

- 2005-2008 Doctor of Philosophy in Hydrogeology, Western Michigan University, Kalamazoo, Michigan, Dissertation: Remote sensing solutions for estimating runoff and recharge in arid environments, 129 p.
- 2000-2004 Bachelor of Science in Geology, State University of New York at Buffalo, Buffalo, New York

PROFESSIONAL EXPERIENCE

- 2016 – Present Associate Professor, Hydrogeology, Department of Geology, University of Georgia, Athens, Georgia
- 2011 – 2016 Assistant Professor of Water Resources; Department of Geology, University of Georgia, Athens, Georgia
- 2008 – 2011 Principal Research Associate; Earth Sciences Remote Sensing Facility, Western Michigan University, Kalamazoo, Michigan
- 2006 – 2007 Adjunct Professor; Department of Geology, Grand Valley State University, Allendale, Michigan

ADDITIONAL EDUCATION

- 2012 Faculty Development Workshop: Integrating Sustainability across the Curriculum, Office of Sustainability, University of Georgia
- 2009 Geological Society of America Short Course: Estimating Rates of Groundwater Recharge
- 2006 Hydrogeology Field Course, Western Michigan University: Applied Hydrogeology Field Methods
- 2004 Argonne National Laboratory Short-Term Scholar: Aquatic Remote Sensing
- 2004 University at Buffalo, Buffalo, New York, Field Camp in central Rocky Mountains (Colorado, Utah, and Wyoming), 6 week mapping and sedimentary geology course

AWARDS & HONORS

- 2013 Professor of the Year; Department of Geology, University of Georgia
- 2008-2011 ESRS Postdoctoral Fellowship, Western Michigan University
- 2008 All-University Research Scholar, Western Michigan University
- 2007 Future Faculty Award, Academic Keys
- 2007 Gwen Frostic Fellowship, Western Michigan University
- 2005-2008 David W. Kuenzi Award, Department of Geosciences, Western Michigan University; North-Central GSA Grant, Geological Society of America; Graduate Student Research and International Travel Award, Department of Geosciences, Western Michigan University; Advisory Council & W. Richard Laton Scholarships, Department of Geosciences, Western Michigan University
- 2004 Reginald Pegrum Travel Award, Department of Geology, University at Buffalo

INVITED PRESENTATIONS

- 2016 Department of Geography & Geology, West Virginia University

2015 College of Arts & Sciences, Year of the Middle East, University of Kentucky
 2015 Department of Geology & Geography, Georgia State University
 2015 Winter Enrichment Program, King Abdullah University of Science & Technology, Saudi Arabia
 2014 Department of Earth and Environmental Sciences, University of Michigan
 2013 Department of Crop & Soil Sciences, University of Georgia
 2013 Department of Agricultural Engineering, Bogor Agricultural University (IPB), Bogor, Indonesia
 2013 Department of Engineering, University of Brawijaya, Malang, Indonesia
 2013 Department of Geological Engineering, Middle East Technical University, Ankara, Turkey
 2012 Department of Geography, University of Georgia
 2011 Department of Geology, University of Kansas
 2011 Department of Geology, University of Georgia
 2011 Department of Geology and Environmental Geosciences, Northern Illinois University
 2011 Department of Earth and Environmental Science, University of Kentucky

TEACHING EXPERIENCE

University of Georgia

GEOL 1120: Environmental Geoscience, 2011-2015 (~90 students/class)
 GEOL 1120E: Environmental Geosciences Online, Summer 2016 (~30 students/class)
 GEOL 3020: Surficial & Near Surficial Processes, 2012-2015 (~35 students/class, co-taught with Paul Schroeder)
 GEOL 4220: Hydrogeology, 2016, (~50 students/class)
 GEOL 4530/6530: Principles and Applications of GIS for Geologists, 2015 (~25 students/class)
 GEOL 8710: Watershed-Scale Modeling, 2014 (~15 students/class, co-taught with David Radcliffe)
 GEOL 8720: Geologic & Hydrologic Remote Sensing, 2013-2015 (~10 students/class)
 GEOL 8730: Principles & Environmental Applications of GIS, 2013 (~15 students/class)
 GEOL 8790: Hydrologic Programming, 2015 (~10 students)
 FYOS: Water – The Most Interesting Resource in the World, 2014-2015 (~15 students/class)

Western Michigan University – Teaching Assistant

GEOS 5270: Principles of Well Drilling and Installation Field Course
 GEOS 5280: Principles and Practices of Ground-water Sampling and Monitoring Field Course
 GEOS 5260: Principles and Practices of Aquifer Testing Field Course
 GEOS 5250: Environmental Surface Geophysics Field Course
 GEOS 1000: Introduction to Physical Geology
 GEOS 5210: Environmental Remote Sensing
 GEOS 5350: Numerical and Spatial Data Analysis

Grand Valley State University – Adjunct Professor

GLY 102: Introduction to Environmental Geology, 2006-2007 (~30 students)

Short Courses

Field and Computational Techniques in Hydrogeology, KAUST, Jeddah, Saudi Arabia, 2015
GIS & Remote Sensing Applications in Water Resources, IAH Conference, Marrakech, Morocco, 2014
Remote Sensing & GIS Applications in Hydrogeology, University of Georgia, Athens, Georgia, 2012-13
Remote Sensing & GIS Applications in Hydrogeology, ICWRE Conf., Merrakesh, Morocco, 2011
Hydrologic Applications in Kuwait, Western Michigan University, 2008
Advanced Calibration Techniques Using SWAT, Cairo University, Cairo, Egypt, 2006
Developing a Web-based GIS Using ArcIMS, Cairo University, Cairo, Egypt, 2006
Hydrologic Modeling Using SWAT, Cairo University, Cairo, Egypt, 2005
Introduction to Remote Sensing Principles, Cairo University, Cairo, Egypt, 2005
Web-based GIS Applications, Cairo University, Cairo, Egypt, 2005

SOFTWARE EXPERIENCE

Hydrologic Modeling Packages: GMS, SWAT, WMS, HEC-HMS, Visual MODFLOW, MIKE-SHE
GIS Packages: ARC/INFO, ArcGIS, ArcIMS, MapInfo
Image Processing Packages: ERDAS, PCI, ENVI, DORIS, SARscape
Programming Languages: IDL, Python, JAVA, ArcXML, RESDEM
Database & Webpage Experience: Oracle, Access, HTML design and administration

GRADUATE STUDENTS

Michael Durham, Ph.D. expected Spring/Summer 2017. Dissertation: Assessment of Satellite-based Hydrologic Models within the Middle East & North Africa (MENA) Region Using Soil Temperature Probes and the Soil and Water Assessment Tool (SWAT) Model.

Abigail Knapp, M.S. expected Spring 2018. Thesis: Hydroclimatic Drivers of CyanoHarmful Algal Blooms.

Holly Hutcheson, M.S. expected Spring 2018. Thesis: Water Resources Assessments in the Southeast.

Khalil Lezzaik, Ph.D., 2016. Dissertation: An Integrated Approach to Water Scarcity Assessment and Adaptation Options in the Middle East and North Africa Region.

Wondwosen Seyoum, Ph.D., 2016. Dissertation: Spatial Disaggregation of GRACE Water Storage Change: An Application for Understanding Water Cycle Dynamics at Local Scales.

Rachel Rotz, M.S., 2016. Thesis: Understanding the Role of Precipitation Dynamics on the Formation and Sustainability of Freshwater Lenses.

Matthew Cahalan, M.S., 2015. Thesis: An Integrated Approach for Sinkhole Identification and Triggering Mechanisms.

Racha El Kadiri, Ph.D., 2015. (Co-Advised). Dissertation: GIS and Remote Sensing Applications for Assessing, Modeling, and Mitigating Environmental Hazards in Mountainous Areas: A Case Study from Jazan, Saudi Arabia.

UNDERGRADUATE STUDENTS

Rachel Rotz, Spring 2014. Senior Thesis: Verification of Rapid Focused Recharge in Depressions Located in Kuwait and the Arabian Peninsula Using Thermal and VNIR Remote Sensing.

Caroline Potterf, Spring 2015. CURO Thesis: Overview of the Water Quality on the UGA Campus

Elizabeth Dwyer, Spring 2015. CURO Thesis: Understanding the Role of Streamflow and Lake Temperature in Forming Harmful Algal Blooms in Lake Lanier, GA.

Sage Maher, Fall 2016. CURO Thesis: Comparative Analysis of Runoff and Erosion in Varying Conditions.

Claire Webster, Spring 2017. Senior Thesis: Climatic Changes across the National Wildlife Refuges

COMMITTEE MEMBER

James Deemy, expected Spring 2017. Dissertation: Isolated Wetland Mapping, Connectivity Assessment and Water Quality in the Dougherty Plain of Georgia.

Ike Astuti, expected Fall 2016. Dissertation: Characterizing the Long Term Impacts of Watershed Level Land Use Changes on the Ecosystem Dynamics of Tropical Reservoirs in Java, Indonesia.

Corbin Kling, 2016, Thesis: Topographic Expressions of Large Thrust Faults on Mars

Adam Forsberg, Fall 2015. Thesis: Comparison of Model-based (SWAT) against field-based (TBET) Phosphorus Index Predictions

Ryan Jubran, Spring 2015. Thesis: Electrical Resistivity Methods for Detecting Sinkholes in Georgia

Don Lundy, Fall 2014. Dissertation: An Investigation of the Relationship Between Lateral Spreading and Mass Depletion of an LNAPL Plume in Contact with Groundwater

Kirk Fraley, Fall 2014. Thesis: A Variable-Density Model to Determine Possible Sources of Elevated Total Dissolved Solids in Suwannee River Basin Springs, North-Central, Florida.

Bill Wylie, Spring 2014. Thesis: Drainage Patterns and Characterization of the Mobile Body of the Allison Creek Landslide in Macon County, North Carolina.

Kimberly Coke, Spring 2013. Thesis: DNA Tracers in Hydrology.

SERVICE

2016-present	Chair, Early Career Hydrogeologist Network, US Chapter of the International Association of Hydrogeologists
2013-present	Environmental Literacy Committee; University Curriculum Committee Sub-committee, University of Georgia
2013-2014	Search Committee: Structural Geology; Department of Geology, University of Georgia
2012-present	Associate Editor; Environmental Earth Sciences
2012-present	Conference Sessions Chaired: Geological Society of America, American Geophysical Union, International Association of Hydrogeologists, CUAHSI Webinar
2012-present	Faculty Affiliate, Center for Integrative Conservation Research, University of Georgia
2012	Search Committee: Remote Sensing; Department of Geography, University of Georgia
2012	Space Committee, Department of Geology, University of Georgia
2014-present	Watts-Wheeler Committee, Department of Geology, University of Georgia
2011-2012	Admissions & Awards Committee, Department of Geology, University of Georgia
2011-2014	Computer Committee, Department of Geology, University of Georgia
2011	Employment Committee, Department of Geology, University of Georgia
2011-present	CUAHSI, University of Georgia representative
2011-present	American Geophysical Union, Student Poster Judge
2009-present	Proposal reviewer for National Science Foundation, National Institute for Water Resources, National Aeronautics and Space Administration, Illinois Geological Survey, Georgia Water Resources
2007-present	Manuscript reviewer for Journal of Hydrology, Environmental Earth Sciences, Computers & Geosciences, Hydrologic Processes, Groundwater, Environmental Science & Technology, Journal of Remote Sensing, Computers and Electronics in Agriculture, Journal of Applied Remote Sensing, Journal of Spatial Hydrology, Earth Interactions, International Journal of Water, Water Resources Research, Advances in Water Resources, Water

ADMINISTRATIVE SERVICE

2016-present	Board of Directors, International Association of Hydrogeologists
2016-present	Chair, Early Career Hydrogeologist Network, US Chapter of the International Association of Hydrogeologists
2016-present	OVPI Faculty Advisory Board, University of Georgia
2015-present	Department of Geosciences Advisory Board, Western Michigan University

PROFESSIONAL SOCIETIES

CUAHSI, Representative for UGA, 2011-Present
Geological Society of America, member, 2003-Present
American Geophysical Union, member, 2003-Present
International Association of Hydrogeologists, 2011-Present

GRANTS

2017-2019	Milewski, A., P.I. – Impacts of Hydrologic Extremes on Natural Resources, National Parks Service (NPS), (2017-2019; Total: \$60,000)
-----------	--

- 2016-2018 Milewski, A., P.I. – Water Resource Inventories and Assessments for National Wildlife Refuges within the Southeast Region, National Fish and Wildlife Service (NFWS), (2016-2018; Total: **\$110,000**)
- 2016-2017 Milewski, A., Co-P.I., (PI – David Leigh; University of Georgia) – Investigating the Paleohydrology and Flood Risk in the Southeastern US, Electric Power Research Institute (EPRI), (2016-2018; Total: **\$35,000**)
- 2016-2017 Milewski, A., P.I. – Multi-Touch Open Education Resources (OER): A New Pedagogy for Geoscience Education and Research, Learning Technologies Grants, (2015-2016; Total: **\$24,768**)
- 2016-2021 Milewski, A., P.I., ERASMUS+ Higher Education Student and Staff Mobility, European Union ERASMUS program, (2016-2021; Total: \$1,800,000; UGA: ~**\$150,000**)
- 2015-2016 Milewski, A., P.I. - Utilizing NASA Earth Observations to Monitor Sinkhole Development and Identify Risk Areas, NASA DEVELOP, (2015-2016; Total: **\$15,000**)
- 2014-2015 Milewski, A., P.I. – ARCHES: An Innovative Workshop Combining Hydrogeology, Satellite Remote Sensing/GIS, and Modeling to Better Understand Water Resources, KAUST Winter Enrichment Program, (2014-2015; Total: **\$25,000**)
- 2013-2014 Milewski, A., P.I., Assessment and Characterization of TRMM Satellite Precipitation Products in Varying Climatic, Topographic, and Hydrologic Regimes, University of Georgia Provost Summer Fund, (2013-2014; Total: **\$5,000**)
- 2012-2014 Milewski, A., Co-P.I., (PI – Alan Fryar; University of Kentucky) – Building Opportunity Out of Science and Technology (BOOST): Helping Hydrologic Research (H2O) in Indonesia and Turkey, US State Department – Bureau of Oceans and International Environmental and Scientific Affairs, (2012-2014; Total: **\$198,000**; UGA: \$85,000)
- 2012-2013 Milewski, A., P.I., Using Radar Interferometry (InSAR) to Evaluate Land Subsidence Caused by Excessive Groundwater Withdrawal in Morocco, University of Georgia Provost Summer Fund, (2012-2013; Total: **\$5,000**)
- 2011-2013 Milewski, A., Co-P.I., (PI – Alan Fryar (University of Kentucky) – Building Opportunity Out of Science and Technology (BOOST): Energizing Young Middle Eastern and North African Scientists – Enhancing Capacity for Water Resource Studies in Egypt and Morocco, US State Department, (2011-2013; Total: **\$250,000**, UGA: \$80,000)
- 2011-2015 Milewski, A., Co-I., (PI - Mohamed Sultan) - Use of GRACE, Remote Sensing, and Traditional Datasets for Modeling Time-Dependent Water Partitioning on Continental Scales: A Case Study from Africa, Funded by NASA. (2011-2015; Total: **\$453,000**)
- 2010-2013 Milewski, A., Co-P.I., (PI – Mohamed Sultan) - Detailed Studies on Landslides in Jazan Area (Saudi Arabia), Saudi Geological Survey, (2010-2013; Total: **\$300,000**)
- 2010-2011 Milewski, A., Co-P.I., (PI - Ahmad Al-Dousari) - Groundwater Potentiality Studies in Kuwait, Kuwait Institute for Scientific Research, (2010; Total: **\$5,000**)
- 2009-2011 Milewski, A., Co-P.I., (PI – Richard Laton), Identifying Areas for Artificial Recharge in the Mojave Desert, Mojave Water Agency & University of California State at Fullerton, (2009-2012; Total: **\$200,000**, WMU: \$75,000)
- 2009-2010 Milewski, A., P.I., Hydroinformatics: Bridging the Gap Between Technology and Hydrology, Funded by Western Michigan University, (2009-2010; Total: **\$20,000**)
- 2008-2010 Milewski, A., P.I., Developing Cost-effective Methodologies for Groundwater Assessment and Exploration in Sinai, Funded by National Institute of Standards and Technology (NIST) in cooperation with USDA, (2008-2010; Total: **\$8,500**)

Pending Grants

- 2017-2020 Milewski, A., P.I., Capacity Building, Outreach, and Research for a Better Understanding of the Water Resources in Pakistan, USAID & US Department of State, (2017-2020; Total: **\$240,875**)

- 2016-2020 Milewski, A., Co-P.I. (PI – Liz Kramer), Sustaining Diversified Crop Production in a Southeastern Multi-state Region through Water Reuse and Informed Participation, USDA AFRI Water, (2016-2020; Total: \$5,000,000; Milewski: **\$400,000**)
- 2016-2019 Milewski, A., P.I., Hydrologic Controls on Transmission Losses in Dryland Environments, NSF, (2016-2019; Total: **\$409,815**)
- 2016-2019 Milewski, A., P.I., Collaborative Research (IRES): A Multi-Faceted Approach for Characterizing and Understanding Natural and Anthropogenic Impacts on Groundwater Resources and Recharge in Morocco, NSF, (2016-2019; Total: **\$184,584**)

In-Kind Data Grants

- 2014-2015 Milewski, A., P.I. – Analysis of Geologic and Hydrologic Controls for Subsidence Monitoring and Sinkhole Hazard Assessment in Dougherty Plain, Georgia, USA, European Space Agency (ESA), (2014-2015; Total In-Kind: **\$15,000**)
- 2013-2014 Milewski, A., P.I. – Verification of Rapid Focused Recharge in Depressions Located in Kuwait and the Arabian Peninsula Using Thermal and VNIR Remote Sensing, European Space Agency (ESA), (2013-2014; Total In-Kind: **\$20,000**)
- 2012-2013 Milewski, A., P.I. – Using Radar Interferometry (InSAR) to Evaluate the Land Subsidence Caused by Excessive Groundwater Withdrawal in Morocco, European Space Agency (ESA), (2013-2014; Total In-Kind: **\$25,000**)

PUBLICATIONS

Peer-Reviewed Journals and Volumes (journal impact factor in parentheses)

* Denotes student-authored manuscript.

Manuscripts in Review or Press:

- Milewski, A.**, Seyoum, W., Elkadiri, R., and Durham, M., 2017, Multi-Scale Hydrologic Sensitivity to Climatic and Anthropogenic Changes in Morocco, *Hydrogeology*, In Review.
- Wehbe, Y., Temimi, M., Ghebreyesus, D., **Milewski, A.**, and Norouzi, H., 2017, Spatial Consistency of Precipitation Products and their Interactions with Soil Moisture and Water Storage over the Arabian Peninsula, *Hydrological Sciences*, Accepted.
- Wehbe, Y., Ghebreyesus, D., Temimi, M., and **Milewski, A.**, 2016, Assessment of the Consistency among Global Precipitation Products over the United Arab Emirates, *Journal of Hydrology: Regional Studies*, Accepted.
- Kherouf, M., Maoui, A., Benaabidate, L., Derradji, F., and **Milewski, A.**, 2016, Hydrochemical and Isotopic Investigation in the Djelfa Syncline Aquifer, Algeria, *Environmental Earth Sciences*, Accepted.
- *Lezzaik, K., and **Milewski, A.**, 2016, Sensitivity Analysis of the Groundwater Risk Index in the Middle East and North Africa Region, *Hydrogeology*, In Review.
- *Lezzaik, K., **Milewski, A.**, and Mullen, J., 2016, The Groundwater Risk Index: Development and Application in the Middle East and North Africa Region, *Earth Science Reviews*, In Review.
- *Seyoum, W., and **Milewski, A.**, 2016, Understanding Local Terrestrial Water Cycle Dynamics in the Northern High Plains using Downscaled GRACE Water Storage Anomaly, *Water Resources Research*, In Review. (3.709)
- *Cahalan, M., and **Milewski, A.**, 2016, Sinkhole Formation Dynamics and Geostatistical-Based Prediction Analysis in a Mantled Karst Terrain, *Environmental Earth Sciences*, In Review.
- *Lezzaik, K., and **Milewski, A.**, 2016, A Quantitative Assessment of Groundwater Resources in the Middle East and North Africa Region, *Remote Sensing of the Environment*, In Review. (3.871)
- *Lezzaik, K. and **Milewski, A.**, 2016, Statistical and Spatial Intercomparison and Classification of GRACE Equivalent Water Height Products in Arid Environments, *Remote Sensing*, Re-submission. (2.633).

Milewski, A., Durham, M., Rashed, M., and Abouelmagd, A., 2016, Field-derived Estimates of Ephemeral Channel Transmission Loss Rates and Variability in a Hyper-Arid Environment, *Advances in Water Resources*, In Review, (2.780).

Abouelmagd, A., Krishnamurthy, R.V., Sultan, M., Kehew, A., **Milewski, A.**, McCabe, M., and Altaf, M., 2016, Paleoclimatic Insights into the Depleted Isotopic Ratios of Fossil Aquifer Waters, Northern Africa, *Journal of Arid Environments*, In Review. (1.822)

Published Manuscripts:

*Seyoum, W., and **Milewski, A.**, 2016, Monitoring and Comparison of Terrestrial Water Storage Changes in the Northern High Plains using GRACE and In-situ Based Integrated Hydrologic Models, *Advances in Water Resources*, 94, 31-44. (4.90)

Milewski, A., El Kadiri, R., and Durham, M., 2015, Assessment and Intercomparison of TMPA Satellite Precipitation Products in Varying Climatic and Topographic Regimes in Morocco, *Remote Sensing*, v. 7, 5697-5717. (2.633)

*Seyoum, W., **Milewski, A.**, and Durham, M., 2015, Assessment of the Relative Impact of Natural Processes and Human Activities on the Hydrology of the Central Rift Valley Lakes, Ethiopia, *Hydrologic Processes*, DOI: 10.1002/hyp.10490 (2.696).

Ghobani, T., Bellal, S.A., and **Milewski, A.**, 2015, A Relevant Ecosystem in Trouble in the Southern Shore of the Mediterranean: The Coastal Zone of Terga, Algeria, *Journal of Mediterranean Geography: Special Issue on Dynamics of Coastal Wetlands and Management Issues*.

*Dailey, D., Sauck, W., Sultan, M., **Milewski, A.**, Ahmed, M., Laton, R., El Kadiri, R., Foster, J., Schmidt, C., Al Harbi, T., 2015, Geophysical, Remote Sensing, GIS, and Isotopic Applications for a Better Understanding of the Structural Controls on Groundwater Flow in the Mojave Desert, California, *Journal of Hydrology: Regional Studies*, v. 3, 211-232.

Milewski, A., Sultan, M., Al-Dousari, A., and Yan, E., 2014, Geologic and Hydrologic Settings for Development of Freshwater Lenses in Arid Lands, *Hydrologic Processes*, v. 7(1), 3185-3194. (2.696)

Abouelmagd, A., Sultan, M., Sturchio, N., Soliman, F., Rashed, M., Ahmed, M., Kehew, A., **Milewski, A.**, and Chouinard, K., 2014, Paleoclimate Record in the Nubian Sandstone Aquifer, Sinai Peninsula, Egypt, *Quaternary Research*, v. 81(1), 158-167 (2.52).

*Alharbi, T., Sultan, M., Sefry, S., El Kadiri, R., Ahmed, M., Chase, R., **Milewski, A.**, Abu Abdullah, M., Emil, M., and Chouinard, K., 2014, An Assessment of Landslide Distribution in the Faifa Area, Saudi Arabia Using Remote Sensing and GIS Techniques, *Natural Hazards and Earth Systems Sciences*, 6685-6717. (1.751)

*Becker, D., Sultan, M., **Milewski, A.**, Becker, R., Sauck, W., Soliman, F., Rashed, M., Yan, E., Wagdy, A., Ahmed, M., Chouinard, K., and Welton, B., 2012, Integrated Solutions for Hydrologic Investigations in Arid Lands, *Geosphere*, (v8), 1588-1605. (2.120)

Abouelmagd, A., Sultan, M., **Milewski, A.**, Kehew, A., Sturchio, N., Soliman, F., Krishnamurthy, R.V., Cutrim, E., 2012. Towards a better understanding of Palaeoclimatic regimes that recharged the fossil aquifers in North Africa: Inferences from stable isotope and remote sensing data. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v 329-300, 137-149 pp. (2.390)

Sultan, M., Metwally, S., **Milewski, A.**, Becker, D., Ahmed, M., Sauck, W., Soliman, F., Sturchio, N., Wagdy, A., Becker, R., Welton, B., 2011, Modern Recharge to Fossil Aquifers: Geochemical, Geophysical, and Modeling Constraints, *Journal of Hydrology*, 403 (1-2), 14-24.

*Ahmed, M., Sultan, M., Wahr, J., Yan, E., **Milewski, A.**, Sauck, W., Becker, R., and Welton, B., 2011, Integration of GRACE data with Traditional Datasets for a Better Understanding of the Time-dependent Water Partitioning in African Watersheds, *Geology*, 39 (5), 479-482.

*Sagintayev, Z., Sultan, M., Khan, S.D., Khan, S.A. Mahmood, E., Yan, E., **Milewski, A.**, and Marsala, P., 2011, A Remote Sensing Contribution to Hydrologic Modeling in Arid and Inaccessible Watershed, Pishin Lora Basin, Pakistan, *Hydrologic Processes*, 26 (1), 85-99. (2.50)

Sultan, M., Yousef, A.F., Metwally, S., Becker R., **Milewski, A.**, Sauck, W., Sturchio, N. C., Mohamed, A.M.M., Wagdy, A., El Alfay, Z., Becker, D., Sagintayev, Z., El Sayed, M., and Welton, B., 2011, Red Sea rifting

- controls on aquifer distribution: constraints from geophysical, isotopic, and remote sensing data, *Geological Society America Bulletin*, v. 123 (5-6), 911-924. (3.637)
- Sagintayev, Z., Sultan, M., Khan, S.D., Khan, S.A., Mahmood, K., Yan, E., **Milewski, A.**, and Chouinard, K., 2011, Identification of Aquifer Types and Potential Well Locations using GIS and Remote Sensing Technologies in the Pishin Lora Basin, *Geography Bulletin: Kazakh*, v. 1 (32), 117-122. (1.0)
- Kehew, A., **Milewski, A.**, and Soliman, F., 2010, Reconstructing an extreme flood from boulder transport and rainfall-runoff modeling: Wadi Isla, South Sinai, Egypt, *Global and Planetary Change*, v. 70, 64-75.
- Al-Dousari, A., **Milewski, A.**, Ud Din, S., and Ahmed, M., 2010, Remote Sensing Inputs to SWAT Model for Groundwater Recharge Estimates in Kuwait, *Advances in Natural and Applied Sciences*, 4(1), 71-77.
- Milewski, A.**, Sultan, M., Yan, E., Becker, R., Abdeldayem, A.W., and Gelil, K.A., 2009, Remote Sensing Solutions for Estimating Runoff and Recharge in Arid Environments, *Journal of Hydrology*, 373, 1-14.
- Milewski, A.**, Sultan, M., Markondiah Jayaprakash, S., Balekai, R., and Becker, R., 2009, RESDEM, a Tool for Integrating Temporal Remote Sensing Data for use in Hydrogeologic Investigations, *Journal of Computers and Geosciences*, 35, 2001-2010.
- Jones, C., Sultan, M., Yan, E., **Milewski, A.**, Hussein, M., Al-Dousari, A., Al-Kaisy, S., and Becker, R., 2008, Hydrologic Impacts of Engineering Projects on the Tigris-Euphrates System and its Marshlands, *Journal of Hydrology*, 353, 59-75.
- Sultan, M., Sturchio, N., El Sefry, S., **Milewski, A.**, Becker, R., and Nasr, I., 2008, Geochemical, Isotopic, and Remote Sensing Constraints on the Origin and Evolution of the Rub Al Khali Aquifer System, Arabian Peninsula, *Journal of Hydrology*, 356, 70-83.
- Sultan, M., Wagdy, A., Manocha, N., Sauck, W., Abdel Gelil, K., Youssef A.F., Becker, R., **Milewski, A.**, El Alfy, Z., and Jones, C., 2008, An Integrated Approach for Identifying Aquifers in Transcurrent Fault Systems: The Najd Shear System of the Arabian Nubian Shield, *Journal of Hydrology*, 349, 475-488.
- Sultan, M., Yan, E., Sturchio, N., Wagdy, A., Abdel Gelil, K., Manocha, N., Becker, R., and **Milewski, A.**, 2007, Natural Discharge: A Key to Sustainable Utilization of Fossil Groundwater, *Journal of Hydrology*, 335, 25-36.
- Milewski, A.** and Lesht, B.M., Using Satellite Remote Sensing to Determine the Cause of Whiting Events in Lake Michigan, *Journal of Undergraduate Research, US Department of Energy*, Vol. V, 2005.

Book Chapters and Reviews

- Milewski, A.**, 2014, Book review of “*Terrestrial Hydrometeorology*”, James Shuttleworth, 2012, 441pgs, Wiley-Blackwell Press, ISBN 0470659378. *Groundwater*, 52: 337. (2.132).
- Sultan, M., Ahmed, M., Sturchio, N., Yan, E., **Milewski, A.**, Becker, R., Wahr, J., Becker, D., and Chouinard, K., 2013, Assessment of the Vulnerabilities of the Nubian Sandstone Fossil Aquifer; North Africa, In: *Climate Vulnerability*, Volume 5, Pgs. 311-333.

Conference Proceedings (*: Presenter)

- Yan, E., **Milewski, A.**, Sultan, M., Abdeldayem, A., Soliman, F., and Abdel Gelil, K., 2010, Remote-Sensing Based Approach to Improve Regional Estimation of Renewable Water Resources for Sustainable Development, *US-Egypt Workshop on Space Technology and Geo-information for Sustainable Development*, Cairo, Egypt, June 14-17, 2010.
- ***Milewski, A.**, Sultan, M., Wagdy, A., and Abdel Gelil, K., 2006, Regional Prospective for Continuous Rainfall-Runoff-Recharge Estimation Using SWAT Model, *Proceedings of Third Arab Water Regional Conference*, Cairo, Egypt, Dec 9 – 11 2006.
- Sultan, M., Wagdy, A., Manocha, N., Abdel Gelil, K., Becker, R., and **Milewski, A.**, 2006, Development and Applications of Replicable and Cost-effective Methodologies for Groundwater Assessment and Exploration, *Proceedings of Third Arab Water Regional Conference*, Cairo, Egypt, Dec 9 – 11 2006.
- Sultan, M., Sefry, S., Becker, R., **Milewski, A.**, 2006, Similarities of Hydro-geological Settings Across the Red Sea: Egypt and Saudi Arabia, *Proceedings of Third Arab Water Regional Conference*, Cairo, Egypt, Dec 9 – 11 2006.

- Sultan, M., Wagdy, A., Manocha, N., Becker, R, and **Milewski, A.**, 2006, Applications of Remote Sensing and GIS in Ground Water Exploration, *Proceedings for Workshop on Remote Sensing and GIS: Techniques and Applications*, Kuwait City, Kuwait, 25-29 November, 2006.
- *Sultan, M., Flower, M, Sandvol, E, Manocha, N, Markondiah Jayaprakash, S., Becker, R, Jones, C., and **Milewski, A.**, 2006, Web-based GIS: The Tethys Database, *Proceedings for Workshop on Remote Sensing and GIS: Techniques and Applications*, Kuwait City, Kuwait, November 25-29, 2006.
- ***Milewski, A.**, Sultan, M., Wagdy, A., Abdel Gelil, K., Markondiah Jayaprakash, S., and Becker, R., 2005, Precipitation, Runoff, and Recharge Analysis Using SWAT, *Proceedings for Workshop on Assessing Groundwater Development Potential in Arid and Hyper Arid Regions*, Cairo, Egypt, Dec 11-12, 2005.
- Sultan, M., Wagdy, A., Manocha, N., **Milewski, A.**, Becker, R., and Abdel Gelil, K., 2005, Methodology for the Assessment of Groundwater Development Potential in Arid and Hyper-Arid Regions, *Proceedings for Workshop on Assessing Groundwater Development Potential in Arid and Hyper Arid Regions*, Cairo, Egypt, Dec 11-12, 2005.
- Sultan, M., Yan, E., Becker, R., and **Milewski, A.**, 2005, Groundwater Modeling in Wadi Assuity, *Proceedings for Workshop on Assessing Groundwater Development Potential in Arid and Hyper Arid Regions*, Cairo, Egypt, Dec 11-12, 2005.
- Yan, E., Sultan, M., Wagdy, A., **Milewski, A.**, and Becker, R., 2005, Assessment, Monitoring, and Modeling of Changes in Land Use and Land Cover and Their Impacts on the Nubian Aquifer *Proceedings for Workshop on Assessing Groundwater Development Potential in Arid and Hyper Arid Regions*, Cairo, Egypt, Dec 11-12, 2005.

Abstracts

- Milewski, A.**, Elkadiri, R., Seyoum, W., and Durham, M., 2016, Watershed-Scale Hydrologic Sensitivity to Climatic and Anthropogenic Changes, International Association of Hydrogeologists, 43st International Congress, Montpellier, France.
- Wehbe, Y., Temimi, M., and **Milewski, A.**, 2016, Regional Consistency of Global Precipitation Products and their Interactions with Soil Moisture and Water Storage over the Arabian Peninsula, American Geophysical Union (AGU) Meeting, Abstracts with Programs.
- Schroeder, P., Ece, O., Demirel C., and **Milewski, A.**, 2016, Reconnaissance Oxygen and Hydrogen Stable Isotope Geochemistry of Waters from the Critical Zone in the Iznik Lake Basin Region, Turkey.
- Milewski, A.**, El Kadiri, R., Seyoum, W., Durham, M., Fay, V., Lezzaik, K., Rotz, R., Fisher, A., and Cahalan, M., 2015, An Analysis of GPM IMERG and TRMM TMPA Precipitation Estimates in Varying Environments, Geological Society of America, Abstracts with Programs, Vol. 47, No. 7, p. 484.
- Seyoum, W., and **Milewski, A.**, 2015, Using Satellite Earth Observations to Understand the Factors Controlling the Terrestrial Water Cycle in the Northern High Plains, USA, Geological Society of America, Abstracts with Programs, Vol. 47, No. 7, p. 483.
- Rotz, R., and **Milewski, A.**, 2015, Investigating the Effects of Precipitation Dynamics on Inland Freshwater Lens Formation Using a Physical Model, Geological Society of America, Abstracts with Programs, Vol. 47, No. 7, p. 522.
- Lezzaik, K., and **Milewski, A.**, 2015, A Quantitative Assessment of Groundwater Resources in the Middle East and North Africa Region, Geological Society of America, Abstracts with Programs, Vol. 47, No. 7, p. 522.
- Durham, M., and **Milewski, A.**, 2015, Effects of Infiltration Variability on Modeled Transmission Losses in Ephemeral Channels, Geological Society of America, Abstracts with Programs, Vol. 47, No. 7, p. 316.
- Cahalan, M., and **Milewski, A.**, 2015, An Integrated Approach for Subsidence Monitoring and Sinkhole Formation in the Karst Terrain of Dougherty County, Georgia, Georgia Water Resources Conference.
- Milewski, A.**, El Kadiri, R., Durham, M., Seyoum, W., Lezzaik, K., Cahalan, M., and Rotz, R., 2014, Remote Sensing Approaches for Assessing Groundwater Resources and Anthropogenic Impacts in Souss Basin, Morocco, Geological Society of America Annual Meeting Abstracts with Programs.
- Milewski, A.**, El Kadiri, R., Durham, M., Seyoum, W., Lezzaik, K., Cahalan, M., and Rotz, R., 2014, Evaluation of Groundwater Resources and Anthropogenic Impacts in Morocco using Satellite-based Observations, Hydrologic Models, and Radar Interferometry, International Association of Hydrogeologists, 41st International Congress, Marrakech, Morocco.
- Seyoum, W., and **Milewski, A.**, 2014, Characterization of Terrestrial Water Storage using a Regional Integrated Hydrologic Model to Evaluate Water Storage Estimates from GRACE Satellite in the Northern High Plains, Geological Society of America Annual Meeting Abstracts with Programs.

- Cahalan, M., and **Milewski, A.**, 2014, Spatiotemporal Analysis of Sinkhole Development in the Covered Karst Terrain of Dougherty County, Georgia, Geological Society of America Annual Meeting Abstracts with Programs.
- Lezzaik, K., and **Milewski, A.**, 2014, A Global Hot Spot Analysis of Groundwater Storage Change using GRACE Satellite and GIS-Based Spatial Statistical Analysis, Geological Society of America Annual Meeting Abstracts with Programs.
- Rotz, R., and **Milewski, A.**, 2014, Understanding Hydrologic Alterations and Physiographic Changes in Kuwait from Prolonged Drought and Climate Change, Geological Society of America Annual Meeting Abstracts with Programs.
- Durham, M., **Milewski, A.**, and Sultan, M., 2014, The Characterization of Transmission Losses in Ephemeral Channels: Case Study in the Wadi Ferrain Basin Sinai Peninsula, Egypt, Geological Society of America Annual Meeting Abstracts with Programs.
- Sultan, M., Ahmed, M., **Milewski, A.**, Becker, R., Yan, E., Sturchio, N., Mohamed, L., Abotalib, Z, Becker, D., and Chouinard, K., 2014, Integrated Approaches for Sustainable Utilization of Water Resources in Arid Lands: Case Studies from Egypt, Geological Society of America Annual Meeting Abstracts with Programs.
- Durham, M., **Milewski, A.**, and Sultan, M., 2014, Enhancement of Existing Satellite-based Hydrologic Models in Egypt using Soil Temperature Probes, International Association of Hydrogeologists, 41st International Congress, Marrakech, Morocco.
- Sultan, M., Ahmed, M., Yan, E., **Milewski, A.**, Mohamed, L., and Farag, L., 2014, Management of Egypt's Surface and Groundwater Resources: Present and Future, American Geophysical Union Meeting, Abstracts with Programs.
- Milewski, A.**, El Kadiri, R., and Durham, M., 2013, Assessment of TRMM Products and Their Influence on Hydrologic Models within the Middle East and North Africa (MENA) Region Using the Soil and Water Assessment Tool (SWAT) Model, American Geophysical Union Annual Meeting Abstracts with Programs.
- Milewski, A.**, Fryar, A., Durham, M., Schroeder, P., Agouridis, C., Hanley, C., and Rotz, R., 2013, ARCHES: Advancing Research & Capacity in Hydrologic Education and Science, American Geophysical Union Annual Meeting Abstracts with Programs.
- Derin, Y., **Milewski, A.**, Fryar, A., and Schroeder, P., 2013, An Integrated Approach for Understanding Anthropogenic and Climatic Impacts on Lakes: A Case Study from Lake Iznik, Turkey, American Geophysical Union Annual Meeting Abstracts with Programs.
- Seyoum, W. and **Milewski, A.**, 2013, Understanding Natural and Human-Induced Impacts on the Hydrology of Central Valley Lakes in Ethiopia Using Hydrologic Modeling and Remote Sensing, American Geophysical Union Annual Meeting Abstracts with Programs.
- Rotz, R. and **Milewski, A.**, 2013, Verification of Rapid Focused-Recharge in Depressions of Kuwait and the Arabian Peninsula Using Thermal and VNIR Remote Sensing, American Geophysical Union Annual Meeting Abstracts with Programs.
- Durham, M., **Milewski, A.**, and El Kadiri, R., 2013, Using Radar Interferometry (DinSAR) to Evaluate Land Subsidence Caused by Excessive Groundwater Withdrawal in Morocco, American Geophysical Union Annual Meeting Abstracts with Programs.
- Lezzaik, K. and **Milewski, A.**, 2013, GRACE-Based Analysis of Total Water Storage Trends and Groundwater Fluctuations in the North-Western Sahara Aquifer System (NWSAS) and Tindouf Aquifer in Northwest Africa, American Geophysical Union Annual Meeting Abstracts with Programs.
- Fryar, A., **Milewski, A.**, Sultan, M., Benaabidate, L., Laftouhi, N.E., Fekri, A., Cherif, O., Elewa, H., Garamoon, H., Ward, J., and Hanley, C., 2013, Building Opportunity Out of Science and Technology (BOOST): Enhancing Capacity for Hydrologic Science in Morocco and Egypt, American Geophysical Union Annual Meeting Abstracts with Programs.
- Wright, W., Rasmussen, T., **Milewski, A.**, and Gregory, B., 2013, Refining ArcSWAT Inputs for a Tidal Watershed using Remote Sensing Data, Forest and Natural Resource Management GIS Conference.
- Agustina, C., Yasmin, P., Fathoni, F., Gusti, T., Harifa, A., Hendra, Y., Hertanti, D., Lusiana, N., Rohmat, F., Agouridis, C, Fryar, A., **Milewski, A.**, Pandjaitan, N., Santoso, R., and Suharyanto, A., 2013, Field Training Activities for Hydrologic Science in West Java, Indonesia, American Geophysical Union Annual Meeting Abstracts with Programs.
- Derin, Y., Hatipoglu, E., Sunnetci, M., Tanyas, H., Unal Ercan, H., Agouridis, C., Fryar, A., **Milewski, A.**, Schroeder, P., Ece, O., and Yilmaz, K., 2013, BOOST-H20 – Field Training Activities for Hydrologic Science near Lake Iznik, Turkey, American Geophysical Union Annual Meeting Abstracts with Programs.

- Milewski, A.**, Sultan, M., Yan, E., Becker, R., Durham, M., El Kadiri, R., Seyoum, W., and Soliman, F., 2013, Assessment of Current and Projected Water Resources in Egypt and the MENA Region Using Satellite-based Hydrologic Models, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 45, No. 7, p. 162.
- Sultan, M., Abouelmagd, A., Ahmed, M., Sturchio, N., Krishnamurthy, R.V., Soliman, F., Rashed, M., **Milewski, A.**, and Krawczyk, M., 2013, Constraints on the Nature and Timing of Recharge of the Fossil Aquifers in Saharan Africa and Sinai, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 45, No. 7, p. 412.
- Fryar, A., **Milewski, A.**, Agouridis, C., Schroeder, P., Sultan, M., Hanley, C., Tanaka, K., and Reed, M., 2013, Enhancing Capacity for Hydrologic Science from North Africa to Southeast Asia: The BOOST Initiative, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 45, No. 7, p. 646.
- Ghodbani, T. and **Milewski, A.**, 2013, Anthropogenic Impacts on the Dynamics of Terga Dune in North Africa: Case Study of Algerian Coast, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 45, No. 7, p. 550.
- Milewski, A.**, El Kadiri, R., and Durham, M., 2012, Analysis of TRMM Satellite Data in Varying Climates and Elevation in Morocco, American Geophysical Union Annual Meeting Abstracts with Programs.
- El Kadiri, R., **Milewski, A.**, and Durham, M., 2012, Assessment of Satellite-based Precipitation Products (TRMM) in Hydrologic Modeling: Case Studies from Northern Morocco, American Geophysical Union Annual Meeting Abstracts with Programs.
- Sultan, M., Dailey, D., Sauck W., Chouinard, K., Laton, W.R., Foster, J.H., **Milewski, A.**, Eckhart, L., and Garcia, A., 2012, Geophysical and Remote Sensing Applications for a Better Understanding of the Structural (faults/basement uplifts) controls on groundwater flow in the Lucerne Valley, California, American Geophysical Union Annual Meeting Abstracts with Programs.
- Milewski, A.**, El Kadiri, R., Durham, M., and Fryar, A., 2012, Hydrologic Capacity Building in the Middle East and North Africa: Examples from Distance Learning Course and Applied Workshops, Geological Society of America Annual Meeting Abstracts with Programs, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 115.
- Fryar, A., Ward, J., **Milewski, A.**, Elyomni, S., Ammar, M., El Moulat, M., Tifratine, Zambrane, Z, 2012, Enhancing Capacity for Water-Resources Studies in Egypt and Morocco: Field Training Activities in Arid Zone, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 116.
- Durham, M., **Milewski A.**, Sultan, M., and El Kadiri, R., 2012, Insight into Wadi Properties, Dynamics, and Interconnectedness During Flash-Flood Events Using TRMM Satellite Data and Soil Temperature Probes in Sinai Peninsula, Egypt, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 117.
- El Kadiri, R., **Milewski, A.**, Durham, M., and Fryar, A., 2012, Rainfall-Runoff Modeling for the Assessment of Renewable Water Resources over Moroccan Watersheds: Sebou, Melouya, Souss, Bouregrag, Tensift, and Oum Er Rbia, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 115.
- Ahmed, M., Sultan, M., Wahr, J., **Milewski, A.**, Chouinard, K., and Elbayoumi, T., 2012, The use of GRACE and TRMM Data to Quantify the Spatial and Temporal Variations in Precipitation and Terrestrial Water Storage (TWS) Across the Nile River Basin, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 117.
- Zamrane, Z., Laftouhi, N.E., Fniguire, F., Markhi, A., Laignel, B., **Milewski, A.**, and Fryar, A., 2012, Characterization of Drought Periods in the Tensift Watershed (West-Central Morocco), Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 116.
- Markhi, A., Laftouhi, N.E., Soulamani, A., **Milewski, A.**, and Fryar, A., 2012, Problems of Watershed Erodibility in the High Atlas of Marrakech (Morocco) and its Impact on Water Resources, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 117.
- El Moulat, M., Fekri, A., Fryar, A., **Milewski, A.**, and Gloaguen, R., 2012, Delineation of Groundwater Potential Zones and Zones of Groundwater Quality Suitable for Domestic Purposes Using Remote Sensing and GIS Techniques, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 117.
- Laftouhi, N.E., Fekri, A., Benaabidate, L., Markhi, A., Zamrane, Z., Fryar, A., **Milewski, A.**, and Sultan, M., 2012, The Integration of GIS and Remote Sensing in Training and Research in the Field of Water Resources Management in Morocco, Evolution and Benefits, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 116.

- Alharbi, T., Sultan, M., El Kadiri, R., **Milewski, A.**, Ahmed, M., Emil, M., Chouinard, K., Krawczyk, M., Sefry, S., and Youssef, A., 2012, An Assessment of Landslides and Debris Flows Distribution in the Jazan Area, Saudi Arabia Using Remote Sensing and GIS Techniques, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 44, No. 7, p. 345.
- El Kadiri, R. and **Milewski, A.**, 2012, Assessment of Satellite-based Precipitation Products in Hydrologic Modeling: A Case Study from the Our Er Rbia Watershed, Morocco, CUASHI Biennial Meeting, Boulder, Colorado.
- Milewski, A.**, Sultan, M., Fryar, A., Durham, M., and El Kadiri, R., 2012, Research to Education: Harnessing the Power of Remote Sensing Across the Middle East, International Association of Hydrogeologists, Niagara Falls, Canada.
- El Kadiri, R., **Milewski, A.**, Sultan, M., Larabi, A., 2012, Morocco, International Association of Hydrogeologists, Niagara Falls, Canada.
- Fryar, A., **Milewski, A.**, and Sultan, M., 2012, Enhancing Capacity for Water-Resource Studies in the Middle East and North Africa: Building Opportunity out of Science and Technology, International Association of Hydrogeologists, Niagara Falls, Canada.
- Milewski, A.**, Sultan, M., Yan, E., Becker, R., Soliman, F., and Durham, M., 2011, The Role of Remote Sensing and GIS in Hydrologic Models: Case Studies from Arid Environments, International Conference for Water Resources & Environment, Morocco.
- Milewski, A.**, Sultan, M., Becker, D., Soliman, F., Yan, E., Becker, R., and Chouindar, K., Potential Impacts of Climate Change on Modern Recharge in the Eastern Desert and Sinai Peninsula of Egypt, American Geophysical Union Annual Meeting Abstracts with Programs.
- Abdouelmagd, A., Sultan, M., Kehew, A., **Milewski, A.**, and Sturchio, N., 2011, Source of Groundwater Recharge over the Nubian Sandstone Aquifer, Sinai Peninsula, Egypt: Geochemical and Geochronological Constraints, American Geophysical Union Annual Meeting Abstracts with Programs
- Ahmed, M., Sultan, M., Wahr, J., Yan, E., **Milewski, A.**, Mohsen, F., and Chouinard, K., 2011, Use of GRACE data to Monitor Climate Change-Induced Variations in Water Storage Availability in the African Continent, American Geophysical Union Annual Meeting Abstracts with Programs.
- Milewski, A.**, Sultan, M., Chouinard, K., Welton, B., Becker, R., El Sayed, M., and Becker, D., 2011, Multi-Scale Hydrologic Applications Using a Web-Based GIS Server and Custom Geoprocessing Tools, Geological Society of America Annual Meeting Abstracts with Programs
- El Kadiri, R., **Milewski, A.**, Sultan, M., Becker, R., Sefry, S., Al Harbi, T., El Sayed, M., and Sanders, J.D., 2011, Integrated Methodologies (Field, Remote Sensing, GIS) for the Assessment of Landslide Distribution, Hazards, and Controlling Factors in the Jazan Area, Saudi Arabia, Geological Society of America Abstracts with Programs
- Dailey, D., Sauck, W., Sultan, M., **Milewski, A.**, Laton, R., and Foster, J., 2011, Geophysical and Remote Sensing Applications for a Better Understanding of the Structural (Faults/Basement Uplifts) Controls on Groundwater Flow in the Lucerne Valley, California, Geological Society of America Annual Meeting Abstracts with Programs
- Abdouelmagd, A., Krishnamurthy, R.V., Sultan, M., Kehew, A., and Milewski, A., 2011, Insight into the Depleted Isotopic Ratios of Fossil Aquifer Waters, Northern Africa, based on a Raleigh Distillation Model, Geological Society of America Annual Meeting Abstracts with Programs
- Milewski, A.**, Sultan, M., Al-Dousari, A., 2010, Constraints on the Hydrologic Settings and Recharge of the Fresh water lenses in Kuwait, American Geophysical Union Annual Meeting Abstracts with Programs
- Ahmed, M., Sultan, M., Wahr, J., Yan, E., Milewski, A., Sauck, W., Becker, R., Welton, B., and Marsala, P., 2010, Integration of GRACE data, with inferences from traditional datasets for a better understanding of the time-dependent water storage variability in African watersheds, American Geophysical Union Annual Meeting Abstracts with Programs
- Dailey, D., Sauck, W., Sultan, M., **Milewski, A.**, Laton, W. R., Foster, J., Cadaret, E., 2010, Transcurrent Fault Systems in the Mojave Desert, Conduits or Barriers to Groundwater Flow, American Geophysical Union Annual Meeting Abstracts with Programs
- Sultan, M., Ahmed, M., Wahr, J., Yan, E., Milewski, A., Chouinard, K., and Welton, B., 2010, Use of GRACE, Remote Sensing, and Traditional Datasets for Modeling Time-Dependent Water Partitioning on Subbasin Scales: Case Studies from the Nile, Niger, and Congo Basins, GRACE Science Team Meeting, Berlin, Germany.
- Sultan, M., Metwally, S., **Milewski, A.**, Becker, D., Ahmed, M., Sauck, W., Soliman, F., Sturchio, N., Yan, E., Rashed, M., Wagdy, A., Becker, R., and Welton, B., 2010, Modern Recharge of the Nubian Aquifer:

- Remote Sensing, Geochemical, Geophysical, and Modeling Constraints, American Geophysical Union Annual Meeting Abstracts with Programs
- Welton, B., Chouinard, K., Sultan, M., Becker, D., **Milewski, A.**, and Becker, R., 2010, Web-GIS: The New Form of Global Collaboration, American Geophysical Union Annual Meeting Abstracts with Programs
- Sagintayev, Z., Sultan, M., Khan, S.D., Khan, S.A., Mahmood, K., Yan, E., **Milewski, A.**, Marsala, P., 2010, A Remote Sensing Contribution to Hydrologic Modeling in Arid and Inaccessible Watersheds, Pishin Lora Basin, Pakistan", Annual Geological Society of America Abstracts with Programs.
- Laton, R., Al-Harbi, T., Sauck, W., Foster, J., Sultan, M., **Milewski, A.**, Marsala, P., and Balekai, R., 2009, Use of Geophysical and Remote Sensing Data for a Better Understanding of the Hydrologic Role of Faults in the Mojave Desert, 2009, Geological Society of America Abstracts with Programs, Vol. 41, No. 7.
- Kothari, J., Sultan, M., **Milewski, A.**, Balekai, R, and Marsala, P., 2009, Remote Sensing based Inputs to Rainfall-Runoff Models: A Case Study from the Tigris-Euphrates Watershed, Geological Society of America Abstracts with Programs, Vol. 41, No. 7.
- Sagintayev, Z., Sultan, M., Khan, S., Khan, A.S., Mahmood, K., **Milewski, A.**, Marsala, P., and Balekai, R, 2009, SWAT Modeling for the Pishin Lora Basin, Balochistan, Pakistan, Geological Society of America Abstracts with Programs, Vol. 41, No. 7.
- Marsala, P., El-Sayed, M., Sultan, M., Wahr, J., **Milewski, A.**, Becker, R., Welton, B., and Balekai, R., 2009, Integration of GRACE Data with Inferences from Traditional Datasets for a Better Understanding of the Time-Dependent Water Storage Variability in Large-Scale Aquifers: Case Studies from Africa, Geological Society of America Abstracts with Programs, Vol. 41, No. 7.
- Becker, D., **Milewski, A.**, Sultan, M., and Becker, R., 2009, A Web-based GIS Vehicle for the Assessment of Groundwater Potential in Arid Lands: Case Studies from Eastern Desert of Egypt and Sinai Peninsula, Geological Society of America Abstracts with Programs, Vol. 41, No. 7.
- Abdou El-Magd, A., Sultan, M., Kehew, A., Krishnamurthy, R.V., Cutrim, E., and **Milewski, A.**, 2009, Towards a Better Understanding of the Paleoclimatic Regimes over the African Saharan Desert: Inferences from Remote Sensing and Stable Isotope Data, Geological Society of America Abstracts with Programs, Vol. 41, No. 7.
- ***Milewski, A.**, Sultan, M., Metwally, S., Becker, D., Sauck, W., Ismail, F., Sturchio, N., Yan, E., Becker, R., and Sagintayev, Z., 2009, Modern Contributions to the Nubian Aquifer, Sinai Peninsula: Geochemical, Geophysical, and Modeling Constraints, Geological Society of America Abstracts with Programs, Vol. 41, No. 7
- ***Milewski, A.**, Sultan, M., Yan, E., Becker, R., 2008, Remote Sensing Contributions to Rainfall-Runoff and Recharge Modeling, Geological Society of America Abstracts with Programs, Vol. 40, No. 6, p. 117.
- Sagintayev, Z., Sultan, M., Khan, S., Khan, A. S., Mahmood, K., Becker, R., **Milewski, A.**, Welton, B., 2008, Groundwater Reservoir Types in Fold and Thrust Belts: Quetta Valley, Pakistan, Geological Society of America Abstracts with Programs, Vol. 40, No. 6, p. 472.
- Sultan, M., Metwally, M.S., Yousef, A.F., **Milewski, A.**, Sturchio, N., Mahmoud, A.M.M., Becker, R., Sagintayev, Z., 2008, Red Sea Rifting Controls on Groundwater Reservoir Distribution: Constraints from Geophysical, Isotopic, and Remote Sensing Data, Geological Society of America Abstracts with Programs, Vol. 40, No. 6, p. 529.
- ***Milewski, A.**, Sultan, M., Balekai, R., Markondiah Jayaprakash, S., and Becker, R., 2007, RESDEM, A Vehicle for Data Mining and Modeling of Temporal Remote Sensing Data (TRMM, SSM/I, AVHRR, AMSR, MODIS, and QuickSat), Geological Society of America Annual Meeting Abstracts with Programs, Vol. 39, No. 6
- Sultan, M., Sturchio, N., Yan, E., Sefry, S., **Milewski, A.**, Becker, R., Wagdy, A., and Nasr, M.I., 2007, An Integrated Approach for the Assessment of Groundwater Potential in Arid Terrains: Case Studies from Egypt and Saudi Arabia, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 39, No. 6, Invited Presentation
- Becker, D., Sultan, M., Becker, R., **Milewski, A.**, Soliman, F., Abdeldayem, A., Balekai, R., and Rashed, M., 2007, An Integrated Approach for the Assessment of the Renewable Ground Water Resources of Sinai, Egypt, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 39, No. 6.
- Murray, K., Sagintayev, Z., Sultan, M., Khan, S., Becker, D., Becker, R., and **Milewski, A.**, 2007, An Integrated Approach for the Assessment and Development of Renewable Groundwater Resources in the Quetta Valley, Pakistan, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 39, No. 6.

- ***Milewski, A.**, Sultan, M., Yan, E., Abdeldayem, A.W., Gelil, K.A., Markondiah Jayaprakash, S., and Jones, C., 2007, Remote Sensing Solutions for Continuous Rainfall Runoff Modeling, *Eos Transactions AGU*, submitted, Joint Assembly Supplement
- Kehew, A., **Milewski, A.**, and Soliman, F., 2007, Reconstructing an Extreme Flood From Boulder Transport: Wadi Isla, South Sinai, Egypt, 4th International Paleoflood Workshop, Greece, June 24-30th.
- Sultan, M., Wagdy, A., Sauck, W., Manocha, N., Gelil, K.A., **Milewski, A.**, and Becker, R., 2007, An Integrated Approach (Remote Sensing, GIS, Geochemistry, Field, Geophysics) for Assessment of Groundwater Potential in Large Transcurrent Fault Systems, *Eos Transactions AGU*, submitted, Joint Assembly Supplement
- Jones, C., Sultan, M., Yan, E., Hussein, M., **Milewski, A.**, Balekai, R., and Al-Dousari, A., 2007, A Multi-Faceted Approach for the Assessment of the Evolution (1964-2000) of the Tigris-Euphrates Watershed, *Eos Transactions AGU*, submitted, Joint Assembly Supplement
- Kehew, A., **Milewski, A.**, and Soliman, F., 2007, Flood Magnitude and Velocity From Boulder Transport Data: Wadi Isla, South Sinai, Egypt, Michigan Academy of Sciences, Arts, and Letters Annual Meeting, March 9-10th.
- Milewski, A.**, Markondiah Jayaprakash, S., Sultan, M., and Becker, R., 2006, Development of an Automated Precipitation Processing Model and Applications in Hydrologic Investigations, *Eos Transactions AGU*, 87(52), Fall Meeting Supplement, Abstract H21D-1413.
- Sultan, M., Sturchio, N., Al-Sefry, S., Nasr, I.M., Becker, R., and **Milewski, A.**, 2006, Geochemical and Isotopic Constraints on the Origin of the Rub Al Khali Groundwaters, Saudi Arabia, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 38, No. 7, p. 107.
- ***Milewski, A.**, Yan, E., Sultan, M., Abdeldayem, A.W., Abdel Gelil, K., Becker, R., and Markondiah Jayaprakash, S., 2006, A Catchment based Hydrologic Model for the Sinai Peninsula Using Remote Sensing and Field Datasets, *Eos Transactions AGU*, 87(36), Joint Assembly Supplement Abstract H43B-11.
- Jones, C., Sultan, M., Yan, E., Al-Dousari, A., Al-Kaisy, S., Becker, R., and **Milewski, A.**, 2006, An Integrated Approach (RS, GIS, & Modeling) for the Assessment of the Disintegration and Renovation of the Mesopotamian Marshlands, *Eos Transactions AGU*, 87(36), Joint Assembly Supplement, Abstract H23D-05.
- ***Milewski, A.**, Yan, E., Sultan, M., Abdeldayem, A.W., Abdel Gelil, K., Becker, R., and Markondiah Jayaprakash, S., 2005, Development of a Hydrologic Model to Improve Estimates of Recharge and Runoff Using Remote Sensing Datasets, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 37, No. 7, p.29.
- Jones, C., Sultan, M., Al-Dousari, A., Salih, S.A., Becker, R., and **Milewski, A.**, 2005, Who did What to the Mesopotamian Marshes? Inferences From Temporal Satellite Data, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 37, No. 7, p. 510.
- Manocha, M., Sultan, M., Abdeldayem, A.W., Becker, R., **Milewski, A.**, and Sturchi, N., 2005, An Integrated Approach for Assessment of Groundwater Potentialities Arid Areas, *Eos Transactions AGU*, 86(18), Joint Assembly Supplement, Abstract H21C-05.
- ***Milewski, A.**, Sultan, M., Becker, R., and Abdeldayem, A.W., 2005, An Integrated Approach (TRMM, MODIS, AVHRR, and Rain Gauge) for Assessment of Precipitation in Arid Areas: A Case Study from the Eastern Desert of Egypt, *Eos Transactions AGU*, 86(18), Joint Assembly Supplement, Abstract H23A-11.
- Milewski, A.** and Lesht, B.M., Satellite Study of Lake Michigan Whittings, International Association of Great Lakes Research, 2005.
- Sandvol, C., Abbineni, T., Manjunath, D., Sandvol, E., Sultan, M., Flower, M., Danishwar, S., Becker, R., **Milewski, A.**, Sidhardhan, G., and Manocha, N., 2004, A GIS Earth Sciences Database for the Tethyan Mountain Belt, Mid-America GIs Consortium (MAGIC) symposium, Kansas City.
- Sultan, M, Sturchio, N.C., Becker, R, Manocha, N, and **Milewski, A.**, 2004, Paleodrainage Networks of the Nubian Aquifer System Revealed from SIR-C and SRTM Data, Geological Society of America Abstracts with Programs, Vol. 36, No. 2, p.67.
- *Sultan, M., Flower, M., Sandvol, E., Daniswar, S., Becker, R., Sandvol, C., **Milewski, A.**, Sidhardhan, G., and Manocha, N, 2004, The Tethys Database: A Web-Based GIS, Geological Society of America Abstracts with Programs, Vol. 36, No. 2, p. 78.
- Sultan, M., Flower, M., Becker, R., **Milewski, A.**, Bufano, E., Sandvol, E., and Danishwar, S., 2003, A preliminary data set for the 'Tethys' database, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 35, No. 6.

- *Sultan, M., El Alfy, Z., Becker, R., **Milewski, A.**, and Bufano, E., 2003, A Web-based GIS for Egypt's geologic datasets, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 35, No. 6.
- Al Dousari, A., Sultan, M., Becker, R., Bufano, E., and **Milewski, A.**, 2003, Land cover and land use change (LCLUC) of the Mesopotamian marshes, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 35, No. 6.