# Amanda M. Markert

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M S. Farth System Science	May 2017
Thesis A Spatial Pattern Analysis of Land Surface Heterogeneity and Its Relationship to Tornadogenesis	111dy 2017
Advisor. Dr. Robert E. Griffin.	
University of Alabama in Huntsville, Huntsville, AL, Cumulative GPA 3.71	
B.S. Meteorology, Geospatial and Environmental Analysis, Minor Geoscience	May 2013
Virginia Polytechnic Institute and State University, Blacksburg, VA, Magna Cum Laude	
Experience	
Research Scientist I, ESSC, University of Alabama in Huntsville, Huntsville, AL	2018-Present
NASA SERVIR Regional Science Coordination Lead and Weather and Climate Scientist. Manages NAS activities at the SERVIR Southeast Asia hub and provides expertise in data science informatics, weather, or disasters to aid in service development and capacity building efforts.	A-related climate, and
Lecturer, Affiliate Member Graduate Faculty, University of Alabama in Huntsville, Huntsville, AL	2017-2022
Lecturer for the Atmospheric and Earth Science Department: AES 402/502 Scientific and Societal Aspect	s of Natural
Disasters course.	
Research Associate I, ITSC, University of Alabama in Huntsville, Huntsville, AL	2016-2018
Project lead for the NASA/MSFC IMPACT Data Curation for Discovery project supporting NASA's role	in Obama's
Climate Action Plan. Lead coordinator for the NASA GHRC DAAC Outreach and User Services team de	veloping data
resources and tools, web content, and outreach materials.	
Graduate Research Assistant, University of Alabama in Huntsville, Huntsville, AL	Fall 2015
Designed knowledge graphs linking key instruments, parameters, publications, and algorithms to improve	the search and
discovery of resources using NASA Earth Science data.	
Student Specialist IV, ITSC, University of Alabama in Huntsville, Huntsville, AL	Summer 2015
Collaborated with the USGCRP Global Change Information System team developing data models and a fa	aceted
classification scheme for the Climate Data Initiative Human Health theme.	
Graduate Research Assistant/ Data Services Intern, Baron Inc., Huntsville, AL	2014-2015
Developed and validated an automated near real-time GIS storm surge product for the Gulf of Mexico. Pr	oduct required
extensive Python geo-programming and data management.	
Team Lead, NASA DEVELOP National Program, MSFC, Huntsville, AL	2013-2014
Lead and completed applied science projects partnered with government organizations. Projects: Andes M Disasters I. Cumberland Plateau Ecological Forecasting I. II.	lountain
Disasters I, Culliversity of Alabama in Huntsville, Huntsville, AI	2013 2014
Analyzed hurricane risk for ancient Maya archaeological sites on the Vucatán Deninsula through annlying	novel GIS
hurricane hazard manning methods to under-modeled areas	10001 015
Student Intern/ Undergraduate Research National Weather Service Blacksburg VA	2011-2012
Rotational training program with NWS forecasters centered on forecasting and issuing weather notification	ns Analyzed
the high wind climatology of the Blacksburg Weather Forecasting Area	ns. Anaryzed
the fight while enhancingly of the Diacksburg weather Forecasting Area.	
Publications	
Bhandari, B., Markert, K., Mishra, V., Markert, A., & Griffin, R. (2023). Investigation of Data-Driven Ratin	ig Curve
(DDRC) Approach. Water, 15(3), 604. https://doi.org/10.3390/w15030604	

- Gupta, P., Zhan, S., Mishra, V., Aekakkararungroj, A., Markert, A., Paibong, Sarawut, P., Chishtie, F. (2021). Machine Learning Algorithm for Estimating Surface PM2.5 in Thailand. *Aerosol and Air Quality Research*. <u>https://doi.org/10.4209/aaqr.210105</u>
- Mayer, T., Poortinga, A., Bhandari, B., Nicolau, A., Markert, K., Soe Thwal, N., Markert, A., Haag, A., Kilbride, J., Chishhie, F., Wadhwa, A., Clinton, N., Saah, D. (2021). Surface Water Mapping using Deep Learning approach with Sentinel-1 leveraging Google Earth Engine. *ISPRS Open Journal of Photogrammetry and Remote Sensing*. <u>https://doi.org/10.1016/j.ophoto.2021.100005</u>

- Phanikumar, M., Abhishek, A., Das, N., Ines, A., Andreadis, K., Jayasinghe, S., Granger, S., Ellenburg, W., Dutta, R., Quyen, N., Markert, A., Mishra, V. (2021). Evaluating the Impacts of Drought on Rice Productivity over Cambodia in the Lower Mekong Basin. *Journal of Hydrology*. <u>https://doi.org/10.1016/j.jhydrol.2021.126291</u>
- Nauman, C., Anderson, A., Coughlan de Perez, E., Kruczkiewicz, A, McClain, S., Markert, A., Griffin, R., Suarez, P. (2021). Perspectives on flood forecast-based early action and opportunities for Earth observations. *Journal of Appl. Remote Sensing*. <u>https://doi.org/10.1117/1.JRS.15.032002</u>
- Laverde-Barajas, M., Corzo, G.A., Poortinga, A., Chishtie, F., Meechaiya, C., Jayasinghe, S., Towashiraporn, P., Markert, A., Saah, D., Son, L.H., Khem, S., Boonya-Aroonnet, S., Chaowiwat, W., Uijlenhoet, R., Solomatine, D.P. (2020). ST-CORAbico: A Spatiotemporal Object-Based Bias Correction Method for Storm Prediction Detected by Satellite. *Remote Sens.*, 12, 3538. <u>https://doi.org/10.3390/rs12213538</u>
- Markert, K. N., Markert, A., Mayer, T., Nauman, C., Haag, A., Poortinga, A., ... & Kwant, M. (2020). Comparing Sentinel-1 Surface Water Mapping Algorithms and Radiometric Terrain Correction Processing in Southeast Asia Utilizing Google Earth Engine. *Remote Sensing*, 12(15), 2469. <u>https://doi.org/10.3390/rs12152469</u>
- Phongsapan, K., Chishtie, F., Poortinga, A., Bhandari, B., Meechaiya, C., Kunlamai, T., Khun San Aung, Saah, A., Anderson, E., Markert, K., Markert, A., Towashiraporn, P. (2019). Operational flood risk index mapping for disaster risk reduction using Earth Observations and cloud computing technologies: a case study on Myanmar. *Frontiers*. https://doi.org/10.3389/fenvs.2019.00191
- David Saah, Tenneson, K., Matin, M., Uddin, K., Cutter, P., Poortinga, A., Nguyen, Q., Patterson, M., Johnson, G., Markert, K., Flores, A., Anderson, E., Weigel, A., Ellenberg, W., Bhargava, R., Aekakkararungroj, A., Khanal, N., Bhandari, B., Housman, I., Potapov, P., Tyukavina, A., Ganz, D., Maus, P., Clinton, N. (2019). Land cover mapping in the 21st century: challenges and opportunities. *Frontiers*. <u>https://doi.org/10.3389/fenvs.2019.00150</u>
- McDonald, S., Mohammed, I., Bolten, J., Pulla, S., Meechaiya, C., Markert, A., Nelson, J., Lakshmi, V., Srinivasan, R. (2019). SWAT online A web-based decision support system for the Soil and Water Assessment Tool for Environmental Modelling and Software. *Environmental Modelling and Software*. <u>https://doi.org/10.1016/j.envsoft.2019.104499</u>
- Markert, A., Griffin, R., Molthan, A., Knupp, K., & Coleman, T. (2019). A Spatial Pattern Analysis of Land Surface Roughness Heterogeneity and its Relationship to the Initiation of Weak Tornadoes. *Earth Interactions*. <u>https://doi.org/10.1175/EI-D-18-0010.1</u>
- Markert, K., Pulla, S., Lee, H., **Markert, A.**, Anderson, E., Okeowo, M., Limaye, A. (2019). AltEx: An open source web application for accessing and exploring altimetry datasets. *Environmental Modelling and Software*. https://doi.org/10.1016/j.envsoft.2019.03.021
- Zhang, J., Pourreza, M., Ramachandran, R., Lee, T., Gatlin, P., Maskey, M., & Weigel, A. (2018). Facilitating Data-Centric Recommendation in Knowledge Graph. In 2018 IEEE 4th International Conference on Collaboration and Internet Computing (CIC) (pp. 207-216). *IEEE*. <u>https://doi.org/10.1109/CIC.2018.00037</u>
- Maskey, M., Ramachandran, R., Li, X., Weigel, A., Bugbee, K., Gatlin, P., & Miller, J.J. (2017). A Relevancy Algorithm for Curating Earth Science Data around Phenomenon. *Computers & Geosciences*. https://doi.org/10.1016/j.cageo.2017.06.007
- Weigel, A., & Griffin, R. (2015) 14B. 3 Yucatán Hurricane Hazard Assessment: A GIS Methodology for Modeling Hurricane Hazards. *American Meteorological Society Annual Meeting*. <u>https://ams.confex.com/ams/95Annual/webprogram/Paper264619.html</u>

# **Book Chapters**

Uddin, K., Matin, M. A., Khanal, N., Maharjan, S., Bajracharya, B., Tenneson, K., ... & **Markert, A.** (2021). Regional land cover monitoring system for Hindu Kush Himalaya. In Earth observation science and applications for risk reduction and enhanced resilience in Hindu Kush Himalaya region (pp. 103-125). Springer, Cham. <u>https://doi.org/10.1007/978-3-030-73569-2\_6</u>

Cherrington, E. et al., (2019). Chapter 8, The SAR Handbook: Comprehensive Methodologies for Forest Monitoring and Biomass Estimation, SERVIR Science Coordination Office, <u>https://doi.org/10.25966/nr2c-s697</u>

#### **Awards and Honors**

SAR Handbook Group Award, SERVIR Annual Global Exchange, Siem Reap, Cambodia	2020
NASA Group Achievement Award to MSFC Hurricane Harvey Disaster Response Team, NASA	2018
2016 Raskin Scholar, Earth Science Information Partners Federation	2016
Graduate Student Researcher Award, Department of Atmospheric Science, Univ. of Alabama-Huntsville	2016
American Meteorological Society Travel Scholarship, University of Alabama-Huntsville	2014, 2016
Student Travel Grant Award, Societal Impacts and Policy Sciences Focus Group, AGU	2015

Industry/University Cooperative Graduate Research Program, University of Alabama-Huntsville	2014
Master Competitive Internship Program, University of Alabama-Huntsville	2013
Xi Sigma Pi Honor Society, College of Natural Resources and the Environment, Virginia Tech	2011
James F. Powell Scholarship, Virginia Tech	2009

# **Select Professional Presentations**

Panelist, Climate Talks   Equal Space: addressing gender gaps with GIS. Asian Disaster Preparedness Center	2022
Addressing Fiery Needs: How SERVIR-Mekong Brings NASA Air Quality Data Down to Earth, AMS, Annual Meeting	
Online	2022
Panelist, Satellite Data as Decision-making Tools for Infrastructure Planning through Climate-sensitive Challenges, Sid	le
Event: Applying New Integrated Resources Planning and Data Visualization into Sustainable Power Planning, Asia	ı
Clean Energy Forum 2021	2021
Panelist, Learning Session: Harnessing Earth Observations for Making Programmatic Decisions and Responding to	
Flooding Events Around the World, InterAction Forum, Virtual	2021
SERVIR Service Planning Toolkit, Lunch-an Learn Webinar Series, Earth Science Division, NASA	2020
Automated Multi-Sensor Near-Real Time Flood Monitoring in the Lower Mekong, 22nd EGU General Assembly, Virtua	l
	2020
Air Quality from Space, Smog-a-thon Thailand 2020, Chiang Mai, Thailand	2020
Raining Data from the Cloud: Using Google Earth Engine for Flood Monitoring, Google Booth, AGU Fall Meeting, San	n
Francisco, CA	2019
Raining Data from the Cloud: Leveraging Cloud-based Technology for Multi-sensor Flood Monitoring in Southeast Asia	а,
AGU Fall Meeting, San Francisco, CA	2019
Water we going to do with all these data? Service development using interdisciplinary data for flood applications, AGU	Fall
Meeting, Washington D.C.	2018
"Risky Business": Risk Financing for Drought Resilience Applications, South and Southeast Asia Regional Drought For	um,
Kathmandu, Nepal	2018
Using GIS to Investigate Land-Atmosphere Interactions Involved in Tornadogenisis, AMS Annual Meeting, Austin, TX	2018
Enabling visualization and Geospatial Analysis of Almospheric Science Data inrough Python, AMS Annual Meeting,	2018
Austill, 1A Drowning in Data: Coing Reword Traditional Data Archival to Educate Data Usars, AGU Fall Meeting, New Orleans	2010 I A
Drowning in Data. Going Deyona Traditional Data Archival to Educate Data Osers, AGO Fait Meeting, New Orleans,	2017
Developing a Knowledge Base for NASA Farth Science and Hydrologic Applications CUAHSI Hydroinformatics	2017
Conference Tuscaloosa AL	2017
Visualize, Discover and Analyze: A Data Center's Innovative Services for Addressing Observing System Challenges, Po	ster
1037. AMS Annual Meeting. Seattle, WA	2017
Stimulating Remote Sensing Education through Knowledge Augmentation Services, Poster 191, AMS Annual Meeting,	
Seattle, WA	2017
A New Way to Explore Field Campaign Data, NASA Booth Flash Talk, AGU Fall Meeting, San Francisco, CA	2016
Earth Science Data Education through Cooking-up Recipes, AGU Fall Meeting, San Francisco, CA	2016
Field Campaign Explorer: Simultaneous Data Exploration, Discovery and Visualization, Paper IN53E, AGU Fall Meeti	ng,
San Francisco CA	2016
Plenary Speaker, 2016 Raskin Scholar Presentation, ESIP Federation Summer Meeting, Durham, N.C.	2016
Providing Application-Driven GIS Education for Earth System Science, AMS Annual Meeting, New Orleans, LA	2016
Using GIS for Automated Near Real-time Storm Surge Inundation Mapping and Visualization for the Gulf of Mexico, Al	MS,
Annual Meeting, New Orleans, LA	2016
Providing Geospatial Education and Real World Applications of Data across the Climate Data Initiative Themes, Paper	
PA13B-08, AGU Fall Meeting, San Francisco, CA	2016
Capturing Data Connections within the Climate Data Initiative to Support Resiliency, AGU Fall Meeting, San Francisco	o, CA
	2016
Automated Flood Hazard Mapping Methods for Near Real-time Storm Surge Inundation and Vulnerability Assessment,	AGU
Fall Meeting, San Francisco, CA	2015
Yucatan Hurricane Hazard Assessment: A GIS Methodology for Modeling Hurricane Hazards, Paper 14B.3, AMS Annu Mattian Planatin A7	al
Meeting, Phoenix, AZ	2015
Ennancing Disaster Planning Techniques and Assessing Potential Loss through an Automated GIS-based Storm Surge	2015
<i>Froduci</i> , Geo-Energy Summit, Geo-Hunisville, Hunisville, AL	2015

*Enhancing Hurricane Hazard Methods Using a Geographic Information System*, Wernher von Braun Symposium Student Poster Competition, Huntsville, AL 2015

Utilizing NASA Earth Observations to Model Volcanic Hazard Risk Levels in Areas Surrounding the Copahue Volcano in the Andes Mountains, NASA Applied Science Showcase, Global Earth Observing System of Systems Meeting, NASA Headquarters, Washington D.C. 2014

#### **Support Awarded**

Title: Evaluation of ICEYE SAR products for flood extent mapping in the Lower Mekong region Supporting Organization: ESA Third Party Missions scheme Awarded: Access to ESA 8 ICEYE / SAR (X-band) Stripmap products, 4 ICEYE / SAR (X-band) Spotlight products PI: Arjen Haag Role: Co-Investigator

Title: Robert Raskin Scholarship Supporting Organization: Earth Science Information Partners Federation Period: July 2016 – July 2017 Awarded Budget: \$3,000 and Travel support to the 2016 ESIP Summer Meeting PI: Amanda Weigel Role: Principal Investigator

Title: Societal Impacts and Policy Sciences Focus Group Student Travel Grant Supporting Organization: American Geophysical Union Student Programs Department Period: December 5-18, 2016 Awarded Budget: \$500 PI: Amanda Weigel Role: Principal Investigator

Title: University Cooperative Graduate Student Research Program Supporting Organization: University of Alabama in Huntsville, Office of Vice President for Research 2014 Period: August 21, 2014 - December 21, 2014 Awarded Budget: \$13,036 PI: Robert Griffin Role: Co-Investigator, Graduate Research Assistant

# **Teaching and Mentorship**

Instructor, AES 402/502 Scientific and Societal Impacts of Natural Disasters, Dept. of Atmospheric and Earth S	cience, Univ.
of Alabama-Huntsville	all 2017-2022
Masters Committee, Biplov Bhandari: NASA SERVIR-Mekong GRA, Dept. of Atmospheric and Earth Science	, Univ. of
Alabama-Huntsville	2020-2022
Masters Committee, Claire Nauman: NASA SERVIR-Mekong GRA, Dept. of Atmospheric and Earth Science,	Univ. of
Alabama-Huntsville	2018-2020
Adviser, Nicole Dougherty: Earth System Science Undergraduate Research Capstone, Dept. of Atmospheric Sc	ience, Univ.
of Alabama-Huntsville	Spring 2019
Intern, Helen Eifert: Improving Landslide Inventories with a focus on Myanmar, NASA Internship Program, M	SFC
	Summer 2018
Intern, Katharine Egan: Mapping Rain-induced Landslide Susceptibility in Myanmar, NASA Internship Program	n, MSFC
	Summer 2018
Instructor, Introduction to Earth Data Science, NASA SERVIR Science Friday Se	ptember 2018
Instructor, Big Data and Hydrology Workshop, University of Alabama	April 2018
Speaker, Atmospheric Event-based Research Using NASA GHRC Tools and Services, NASA Earthdata Webin	ar 2017
Guest Lecturer, Introduction to ArcGIS Model Builder, Python for Interdisciplinary Earth System Science Appl	ications,
Dept. of Atmospheric Science, University of Alabama-Huntsville	2017
Instructor, NASA Global Hydrology Resource Center DAAC GIS Workshop	2015
Student Instructor, Virginia Tech Storm Chase, Virginia Tech	2011, 2012

#### **Relevant Professional Service**

Convener, Climate and Natural Disaster Risk Management for Human-Natural Systems, AGU Fall Meeting, Chica	.go,
Session Chair, Climate Risk Management for Human-Natural Systems, AGU Fall Meeting, New Orleans, LA	2022
Convener, Implementing Earth Observations in South and Southeast Asia To Address Environmental Challenges, ( Environmental Change, AGU Fall Meeting, New Orleans, LA	Global 2021
Member, NASA TROPICS Mission Applications Working Group, NASA 20	)17-Present
Reviewer, ISPRS International Journal of Geo-Information	2021
Convener, Implementing Earth Observations in South and Southeast Asia To Address Environmental Challenges, G	Global
Environmental Change, AGU Fall Meeting, Virtual	2020
Convener, User Interface/User eXperiences (UI/UX) opportunities, SERVIR Annual Global Exchange, Siem Reap	,
Cambodia	2020
Convener, Numerical Weather Prediction in applications across themes, SERVIR Annual Global Exchange, Siem I	Reap,
Cambodia	2020
Convener, Deeping Impact Across the Network: Weather and Climate, SERVIR Annual Global Exchange, Siem R Cambodia	eap, 2020
Moderator, Session 6: Social components of EWSs, communicating risks, and community-based forecasting, Regio	onal
Knowledge Forum on Early Warning for Flood and High Impact Weather Events, Kathmandu, Nepal	2019
Convener, Free and Open-Source Technologies for Advancing Earth and Space Sciences, Earth and Space Science	
Informatics, AGU Fall Meeting, Washington, D.C.	2018
Convener, Weather and Climate Service Sustainability, SERVIR Annual Global Exchange, Lisbon, Portugal	2018
Convener, Numerical Weather Modeling, Technical Mini-Exchange, SERVIR Annual Global Exchange Lisbon,	
Portugal	2018
Convener, Disaster Strategy, Technical Mini-Exchange, SERVIR Annual Global Exchange, Lisbon, Portugal	2018
Convener, Drought Impacts and Climate Risk Financing, South and Southeast Asia Regional Drought Forum, Kath Nepal	nmandu, 2018
Session Chair, Analysis in Remote Sensing, Novel Data Streams, and Social Media for Natural Hazard Monitoring	;
Research, and Preparedness, Natural Hazards, AGU Fall Meeting, New Orleans, LA	2018
Convener, Developing Innovative Tools and Services to Enable Data Use Across Broad User Communities, Earth	and Space
Science Informatics, AGU Fall Meeting, New Orleans, LA	2017
Reviewer, Journal of Disaster Risk Reduction. Elsevier.	2017
Session Chair, Innovative Tools and Services to Enable Data Use across Broad User Communities, Earth and Spac	e Science
Informatics, AGU Fall Meeting, San Francisco, CA	2016
Member, Earth Science Data Systems Data Recipes Working Group, NASA	2016
President, American Meteorological Society (Blue Ridge Chapter), Blacksburg, VA	2012-2013

# **Technical Expertise**

Agile Planning Software: Smartsheets, JIRA, TRELLO

Information Modeling Software: CMap, Neo4J

Programming Languages: R, Python, IDL (Processing and analysis of ground, airborne and satellite remote sensing data) Geospatial & Remote Sensing Software: ArcGIS/ArcPro 9-10x (Spatial Analyst, 3D Analyst, Geostatistical Analyst, Network Analyst, ArcPy. ArcServer), ENVI Classic, 4-5x (Fx, Feature Extraction Module), ERDAS Imagine, QGIS, Google Earth Engine

Meteorological Software: Campbell Scientific Mesonet, Gibson Ridge (Level 3, Level 2 Analyst), RadarScope Amateur Radio Operator: License KK4RDG

# Web Resources and Articles Developed

#### **Micro** Articles

- 2019: Atmospheric Rivers, Micro Article, Global Hydrology Resource Center DAAC, NASA, https://ghrc.nsstc.nasa.gov/home/micro-articles/atmospheric-rivers
- 2018: Assessing Wind and Rain in Hurricane Ingrid during Hurricane and Severe Storm Sentinel (HS3) Field Campaign, Micro Article, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/micro-articles/assessing-wind-and-rain-hurricane-ingrid-during-hurricane-and-severe-storm-sentinel</u>
- 2018: Earth Observations: Optical Transient Detector (OTD), Micro Article, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/micro-articles/earth-observations-optical-transient-detector-otd</u>

- 2018: Instrument: 2DVD Disdrometer, Micro Article, Global Hydrology Resource Center DAAC, NASA, https://ghrc.nsstc.nasa.gov/home/micro-articles/instrument-2dvd-disdrometer
- 2018: Lightning, Micro Article, Global Hydrology Resource Center DAAC, NASA <u>https://ghrc.nsstc.nasa.gov/home/micro-articles/lightning</u>
- 2018: Lake Effect Snow, Micro Article, Global Hydrology Resource Center DAAC, NASA https://ghrc.nsstc.nasa.gov/home/micro-articles/lake-effect-snow
- 2018: Hurricane, Micro Article, Global Hydrology Resource Center DAAC, NASA <u>https://ghrc.nsstc.nasa.gov/home/micro-articles/hurricane</u>

#### Data Recipes and Code

- 2020: OTD Lightning Flash Location Quickview using Python 3.0 and GIS, Data Recipe, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/data-recipes/otd-lightning-flash-location-quickview-using-python-30-and-gis</u>
- 2019: HS3 CPL Attenuated Total Backscatter Quickview, Data Recipe, Global Hydrology Resource Center DAAC, NASA, https://ghrc.nsstc.nasa.gov/home/data-recipes/hs3-cpl-attenuated-total-backscatter-quickview
- 2019: ISS LIS Lightning Flash Location Quickview using Python 2.7 and GIS, Data Recipe, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/data-recipes/iss-lis-lightning-flash-location-quickview-using-python-27-and-gis</u>
- 2019: HS3 HIWRAP Radar Reflectivity Profile Quick View, Data Recipe, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/data-recipes/hs3-hiwrap-radar-reflectivity-profile-quick-view</u>
- 2018: HS3 HAMSR Radar Reflectivity Profile Data Subset Quick View, Data Recipe, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/data-recipes/hs3-hamsr-radar-reflectivity-profile-data-subset-quick-view</u>
- 2018: RSS DMSP SSM/I and SSMIS Gridded Ocean Product Quickview, Data Recipe, Global Hydrology Resource Center DAAC, NASA, <u>https://ghrc.nsstc.nasa.gov/home/data-recipes/rss-dmsp-ssmi-and-ssmis-gridded-ocean-product-quickview</u>