

DATASETS

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PUBLICATIONS

Eric Brevik, Soils and Human Health: Communication Between Soil Scientists and Health Care Providers, Dickinson State College, January 2021, pgs 59-80, The Soil-Human Health-Nexu

Brittany "Nikki" Carson and Jianglong Zhang, Improving WRF-Chem Meteorological Analyses and Forecasts over Aerosol-Polluted Regions by incorporating NAAPS Aerosol Analyses, University of North Dakota, 2021-06, Journal of Applied Meteorology and Climatology. doi: <https://doi.org/10.1175/JAMC-D-20-0174.1>

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Lan Zeng, Xuefeng Chu, Integrating depression storages and their spatial distribution in watershed-scale hydrologic modeling, North Dakota State University, 2021-04, Advance in Water Resources. doi: 10.1016/j.advwatres.2021.103911

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Eric Brevik, Joshua Steffan, Paul Barnhart, Soil and human health: current status and future needs, Dickinson State University (DSU), 2020-06, Air Soil, and Water Research. doi: 10.1177/1178622120934441

Eric Brevik, Joshua Steffan, Undergraduate degrees that train students for soil science careers at universities in the USA and its territories, Dickinson State University (DSU), 2020-12, Soil Science Society of America Journal. doi: 0.1002/saj2.20140

Eric Brevik, Selenium and Nano-Selenium Biofortification for Human Health: Opportunities and Challenges, Dickinson State University (DSU), 2020-09, Soil Systems. doi: 10.3390/soilsystems4030057

Hanson, Tyler, Chemistry of Inhalable Particles from Welding Fumes at Nueta Hidatsa Sahnish College, New Town, ND / North Dakota Academy of Science Proceedings of the 112th Annual Meeting, North Dakota State University, Center for Regional Climate Studies (CRCS), 2020-12-04, 112th Proceedings of the North Dakota Academy of Science held virtually 12/4/2020

Jiyang Zhang, Haochi Zheng, Changes in Regional Snowfall in Central North America (1961-2017): Mountain vs. Plains, University of North Dakota, Center for Regional Climate Studies (CRCS), 2019-12-07, American Geologic Union (AGU) 2019 Fall meeting in San Francisco

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Presentations

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Bazrkar Mohammad Hadi, Chu, Xuefeng, How Non-Stationarity in a Changing Climate Impacts Drought Prediction?, North Dakota State University, North Dakota State University, Center for Regional Climate Studies (CRCS), 2021-06-10, 2021 Virtual UCOWR/NIWR Annual Water Resources Conference

Brevik, Eric, Communicating the importance of soils to human health: New options and opportunities, Dickinson State University (DSU), Center for Regional Climate Studies (CRCS), 2021-04-21, Global Symposium on Soil Biodiversity

Chu, Xuefeng, Modeling of Infiltration and Unsaturated Flow under Cold Climate Conditions, North Dakota State University, Center for Regional Climate Studies (CRCS), 2021-06-10, ASCE 2021 World Environmental and Water Resources Congress

Gehrig, Katherine, DeLorme, Andre, PREDACEOUS DIVING BEETLE (FAMILY DYTISCIDAE) DISTRIBUTION CHANGES MAY INDICATE CLIMATE CHANGE IN NORTH DAKOTA , Valley City State University, Center for Regional Climate Studies (CRCS), 2021-04-14, ND EPSCoR 2021 State Conference

Kennedy, Aaron, In situ and remotely sensed observations of blowing snow during SAIL: AMF2 and other proposed instrumentation , University of North Dakota, Center for Regional Climate Studies (CRCS), 2021-06-28, SAIL/SPLASH Biweekly Webinars

Kennedy, Aaron, In-situ and remotely sensed observations of blowing snow , University of North Dakota, Center for Regional Climate Studies (CRCS), 2021-04-20, University of Wyoming Dept. of Atmospheric Sciences seminar series

Lucke, Kaela, Land Surface Model Impacts on the Atmosphere in the Northern Great Plains, University of North Dakota, Center for Regional Climate Studies (CRCS), 2021-06-23, 34th Conference on Agricultural and Forest Meteorology

Zanker, Jacob, An Innovative Method for Estimating Planting Dates using Remotely Sensed Data, University of North Dakota, Center for Regional Climate Studies (CRCS), 2021-04-14, ND state EPSCoR conference

Zhang, Jianglong, A new method for improving weather forecasting accuracy under smoky days , University of North Dakota, Center for Regional Climate Studies (CRCS), 2021-04-14, ND state EPSCoR conference

Akyuz, F., Perception of the Changing Climate in North Dakota: Opportunities, Challenges, and Misconceptions | Pioneer Seed Growers Meeting – G.F., North Dakota State University, Invited Speaker, 2020-02-28, Pioneer Seed Growers meeting held February 28, 2020 in Grand Forks, ND. Attendance at event was 30.

Akyuz, F., Perception of the Changing Climate in North Dakota: Opportunities, Challenges and Misconceptions | 2020, North Dakota Weed Control Association Annual Conference, North Dakota State University, Invited Speaker, 2020-01-08, North Dakota Weed Control Association Annual Conference held January 6-9, 2020 in Bismarck, ND.

Akyuz, F., Perception of the Changing Climate in North Dakota: Opportunities, Challenges, and Misconceptions | Pioneer Seed Growers Meeting – Fgo., North Dakota State University, Invited Speaker, 2020-02-27, Pioneer Seed Growers meeting held February 27, 2020 in Fargo, ND. Attendance at event was 30.

Barzkar, M., Application of Joint Probability Distribution Function to Customize Drought Categorization based on Spatial and Temporal Distributions of Drought, North Dakota State University, Poster, 2019-12-09, AGU Fall Meeting, December 9-13, 2019, San Francisco, CA.

Brevik, E., Communicating the importance of soils to human health: New options and opportunities, Dickinson State University (DSU), Invited Speaker, 2020-03-10 Global Symposium on Soil Biodiversity

Brevik, E., Converting Sandy Soils from CRP to No-till Production Agriculture: Impacts on Soil Health, Dickinson State University (DSU), Presentation, 2020-06-01, Global Conference on Sandy Soils

Brevik, Eric, Soils and Human Health: A Future Direction for Pedology | 2020 Soil Science Society of America annual meeting, Dickinson State University (DSU), Center for Regional Climate Studies (CRCS), 2020-11-09,

Carbo, C., Evaluating WRF-Chem Model Performance for Baseline Summer Scenario over the US Northern Great Plains, University of North Dakota, Poster, 2019-12-09 2019, American Geophysical Union Fall Meeting held December 9-13, 2019 in San Francisco, CA.

Carson, B., Feasibility of Downscaling NAAPS Aerosol Fields for Incorporating More Realistic Aerosol Direct Effects in WRF-Chem Simulations , University of North Dakota, Poster, 2019-12-13, American Geophysical Union annual meeting

Chu, X., The Puzzle of Topographic Depressions: A Decade-long Effort to Put the Pieces Together, North Dakota State University, Poster, 2019-12-09, AGU Fall Meeting, December 9-13, 2019, San Francisco, CA.

David Franzen, A History of Phosphate Export from North Dakota, North Dakota State University, Center for Regional Climate Studies (CRCS), 2020-05-05, <https://www.youtube.com/watch?v=BOyc2p-My1w&feature=youtu.be>, Soil Health Webinar Series, NDSU Langdon Research Extension Center, NDSU Soil Health Team

Dennhardt, L., Grasslands in a Changing Climate: Testing assisted migration on cool-season grasses, Valley City State University, Oral, 2020-08-05, Ecological Society of America

Dennhardt, L., How do we build resilient ecosystems?, Valley City State University, Poster, 2020-02-13, North Dakota Wildlife Society

Denton , A., Large-window Techniques for Geospatial Raster Data, North Dakota State University, Presentation, 2020-02-11, 2020 South Dakota State University Data Science Symposium

Denton, A., Gomes, R., Towards high-resolution topographic variables for hydrology, North Dakota State University, Poster, 2020-04-21, EPSCoR State Conference 2020

F. Adnan Akyuz, Impacts of Changing Climate in the Northern Plains. Opportunities, Challenges and Misconceptions | 2020, Douglas County Corn and Soybean Association Annual Meeting, North Dakota State University, Center for Regional Climate Studies (CRCS), 2020-02-13, Douglas County Corn and Soybean Association Annual Meeting held 2/13/2020 in Brandon, MN.

Franzen, D., Increase in nonexchangeable ammonium after cover crop rye and forage radish | 2019 American Society of Agronomy Meetings, North Dakota State University, Poster, 2019-11-12, 2019 American Society of Agronomy Meetings, San Antonio, TX (November 10-13, 2019)

Hanson, Tyler, Chemistry of Inhalable Particles from Welding Fumes at Nueta Hidatsa Sahnish College, New Town, ND / North Dakota Academy of Science Proceedings of the 112th Annual Meeting, North Dakota State University, Center for Regional Climate Studies (CRCS), 2020-12-04, 112th Proceedings of the North Dakota Academy of Science held virtually 12/4/2020.

Jiyang Zhang, Haochi Zheng, Changes in Regional Snowfall in Central North America (1961-2017): Mountain vs. Plains, University of North Dakota, Center for Regional Climate Studies (CRCS), 2019-12-07, American Geologic Union (AGU) 2019 Fall meeting in San Francisco

Joshua Steffan, Effect of Land Use Changes and Cattle Grazing on Soil Microbial Populations and Function, Dickinson State University (DSU), Center for Regional Climate Studies (CRCS), 2020-02-07, Environmental Science Seminar Series

Kennedy, A., In-Situ and Remote Sensing of Blowing/Falling Snow: A summary of ongoing and upcoming projects at the University of North Dakota, University of North Dakota, Presentation, 2019-10-24 Northern Plains Weather Workshop at St. Cloud State University

Kennedy, A., Loeb, N., Scott, A., Lucke, K., From Instrumentation to Outreach: Applications of 3D Printing to Promote Education in the Atmospheric Sciences | 2019 American Geophysical Union Fall Meeting University of North Dakota, University of North Dakota, University of North Dakota, University of North Dakota, Poster, 2019-12-12, 2019 American Geophysical Union Fall Meeting held December 9-13, 2019 in San Francisco, CA.

Kennedy, A., UND Research and Collaboration Opportunities, University of North Dakota, Invited Speaker, 2019-08-13, NWS Northern Plains SOO Workshop

Kennedy, K., Identification of Blowing Snow Events over the Northern Great Plains with GOES-16, University of North Dakota, Poster, 2019-12-12, 2019 American Geophysical Union Fall Meeting held December 9-13, 2019 in San Francisco, CA.

Lucke, K., Kennedy, A., Scott, A., Starr, J., Investigating the Impact of Land Cover Change on the Northern Great Plains | 2019 American Geophysical Fall Meeting, University of North Dakota, Presentation, 2019-12-13, 2019 American Geophysical Union Fall Meeting held December 9-13, 2019 in San Francisco, CA.

Nasab, M., Macro-scale Hydrologic Modeling for Depression-Dominated Cold Climate Regions, North Dakota State University, Poster, 2019-12-12, AGU Fall Meeting, December 9-13, 2019, San Francisco, CA.

Petermann, B., Soil Microbial Response to Long-Term Management Practices in Cotton Systems of the Texas Southern High Plains | 2019, Soil Science Society of America Annual Meeting, Dickinson State University (DSU), Oral, 2019-11-12, Soil Science Society of America Annual Meeting

Petermann, B., Microbial response to altered land management strategies in Eastern Montana | 2019, Soil Science Society of America Annual Meeting, Dickinson State University (DSU), Presentation, 2019-11-12, Soil Science Society of America Annual Meeting, San Antonio, TX.

Starr, J., An Investigation into the Impacts of Crop Type and Acreage Changes on Surface Albedo, University of North Dakota, Poster, 2019-12-09, American Geophysical Union annual meeting

Steffan, J., Out-Wintering of Livestock on Cropland Rapidly Increases Soil Organic Matter and Changes the Soils Microbial Community Structure, Dickinson State University (DSU), Poster, 2019-11-13, Soil Science Society of America Annual Meeting

Wang, N., Spatial Distribution of Depressions and Their Retention Capability at a Watershed Scale, North Dakota State University, Poster, 2019-12-10, AGU Fall Meeting, December 9-13, 2019, San Francisco, CA.

Wang, N., The Roles of Depressions in Hydrologic Processes of the Devils Lake Watershed, North Dakota State University, Oral, 2020-01-15, 37th Red River Land & Water International Summit Conference, Red River Basin Commission, held January 14-16, 2020 in Fargo, ND.

Xu, Y., Zheng, H., Habitat quality for pollinators: road ditches vs. conservation program, University of North Dakota, University of North Dakota, Presentation, 2019-12-10, American Geologic Union (AGU) 2019 Fall meeting in San Francisco

Zanker, J., An estimation of crop planting Dates through the use of remotely sensed data, University of North Dakota, Poster, 2020-01-12, 19th Annual Student Conference, American Meteorological Society annual meeting

Zeng, L., Modeling of Dynamics of Runoff Contributing Areas in Depression-dominated Areas, North Dakota State University, Poster, 2019-12-11, AGU Fall Meeting, December 9-13, 2019, San Francisco, CA.

Zhang, J., Zheng, H., Zhang, X., VanLooy, J., Changes in Regional Snowfall in Central North America (1971-2017): Mountain vs. Plain University of North Dakota, University of North Dakota, University of North Dakota, University of North Dakota Presentation, 2019-12-11 AGU 2019 Fall meeting

Akyuz, A., 2017-18 Multi-year Drought Assessment, Monitoring and Response Efforts in North Dakota | ND EPSCoR 2019 Annual Conference, North Dakota State University, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Akyuz, F., Professor of Climatological Practice, State Climatologist, North Dakota State University, Oral, 2019-06-25, American Association of State Climatologists 2019 Annual Meeting

Akyuz, F., Professor of Climatological Practice, State Climatologist, North Dakota State University, Presentation, 2019-07-16, Managing and Utilizing Precipitation Observations from Volunteer Networks Annual Conference

Ali, M., Microplastic Contamination in the Environment, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Badarch, B., Crop Yield Potential for Five Crops in North Dakota Based on Soils and Climate | ND EPSCoR 2019 Annual Conference, North Dakota State University, Oral, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Bajwa, D., Cellulose Nanocrystals – A Sustainable Material for Improving the Performance Characteristics of Poly (lactic Acid) based Composites | ND EPSCoR 2019 Annual Conference, North Dakota State University, Nueta Hidatsa Sahnish College (Formerly known as Fort Berthold Community College) Oral, 2019-03-27 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Bazrkar, M., Hydroclimatic Aggregate Drought Index for Identification of Droughts in Cold Climate Regions | ND EPSCoR 2019 Annual Conference, North Dakota State University, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Bazrkar, M., Macro-scale Grid-based Hydrologic Modeling and Drought Identification in the Red River of the North Basin, North Dakota State University, Oral, 2020-01-15, 37th Red River Land & Water International Summit Conference, Red River Basin Commission

Bohn, K., Effects of Land Management on Photosynthetic Parameters | ND EPSCoR 2019 Annual Conference, Dickinson State University (DSU), Poster, 2019-03-27, This research analyzes the effects of land management on photosynthetic parameters at both the canopy and leaf levels utilizing a PhotosynQ and GreenSeeker device to measure chlorophyll content, PhiNPQ, Phi2, and PhiNO, which indicate light and nutrient usage. The results demonstrate that cropland absorbed and utilized light more efficiently by converting CO₂ into carbohydrates rather than into heat or damaging energy compared to idle CRP land; thereby, potentially reducing the amount of atmospheric CO₂.

Brevik, E., Overlooked links between soils, provisioning ecosystem services, and human health, Dickinson State University (DSU), Presentation, 2019-04-12, 2019 European Geosciences Union General Assembly

Brevik, E., Soils, Provisioning Ecosystem Services, and Human Health: Overlooked Links | ND EPSCoR 2019 Annual Conference, Dickinson State University (DSU), Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Burke, M., Detection of Shelterbelt Density Change Using Historic APFO and NAIP Aerial Imagery, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Carlos, C., Air pollution over the Northern Great Plains: A WRF-Chem Modeling Study, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Carson, B., Improving regional weather forecasts for the Northern Great Plains with Combine Use of NAAPS and WRF-Chem Modeling during heavy smoke events, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Chowdhury, N., Roberts, D., Modeling North Dakota Farmers' Acreage Allocation for Five Major Crops: A Spatially-weighted Seemingly Unrelated Tobit Approach, North Dakota State University, Poster, 2019-07-23, 2019 Agricultural and Applied Economics Annual Meeting

Chu, X., Modeling of Soil Water Drainage and Redistribution during Dry Time Periods, North Dakota State University, Oral, 2019-05-21, ASCE 2019 World Environmental and Water Resources Congress, May 19-23, 2019, Pittsburgh, PA

Dennhardt, L., Does assisted migration work for three common cool-season grasses? | ND EPSCoR 2019 Annual Conference Valley City State University, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Denton, A., Window-based features for high-resolution remotely-sensed imagery, North Dakota State University, Poster, 2019-03-27, ND EPSCoR State Conference

Dusek, N., Fractal dimension as an image transformation tool, North Dakota State University, Poster, 2019-03-27, EPSCoR Annual Conference

Franzen, D., North Dakota Nutrient Recommendations, Past, Present and Future, North Dakota State University, Invited Speaker, 2019-01-23, Soil and Soil Water Workshop, Fargodome, Fargo, ND

Franzen, D., Integrated Approach for Site-Specific Nitrogen Management in North Dakota, USA, North Dakota State University, Oral, 2019-07-09, 12th European Conference on Precision Agriculture

Gomes, R., Incorporating Data Mining and Iterative Aggregation on Geospatial Datasets to Understand Soil Health in Depressions., North Dakota State University, Poster, 2019-03-27, ND EPSCoR State Conference

Jackson, A., Monarchs on the Prairie: *Danaus plexippus* Egg and Larval Density at Urban and Rural Sites in the Red River Valley | ND EPSCoR 2019 Annual Conference, United Tribes Technical College, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Kennedy, A., Identifying Northern Great Plains Blizzards in the Past, Present, and Future, University of North Dakota, Oral, 2019-01-09, <https://ams.confex.com/ams/2019Annual/meetingapp.cgi/Paper/353239>, 99th Annual Meeting of the American Meteorological Society

Kennedy, A., Convective Environments in Atmospheric Reanalyses, University of North Dakota, Poster, 2019-07-24, Gordon Research Conference on Radiation and Climate

Kennedy, A., Impacts of Climate Change on Civil Infrastructure in the Red River Valley, University of North Dakota, Presentation, 2019-04-25, UND Civil Engineering Seminar Series

Kennedy, A., Initial Development for Simulating Land Surface Change Impacts on Climate in the Northern Great Plains, University of North Dakota, Oral, 2019-01-10, <https://ams.confex.com/ams/2019Annual/meetingapp.cgi/Paper/354210>, 99th Annual Meeting of the American Meteorological Society

Kennedy, A., Using neural networks to address questions within the atmospheric sciences, University of North Dakota, Presentation, 2019-04-26, UND Chemistry Seminar Series

Li, S., Window Based Histogram for Identifying Relationship between Soil Health and Elevation, North Dakota State University, Poster, 2019-03-27, ND EPSCoR State Conference

Loeb, N., Lucke, N., Scott, A., Winter Weather Outreach | 2019 ND EPSCoR State Conference, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Lucke, A., Scott, A., Kennedy, A., Influences of Crop Cover Change on Northern Great Plains Convection | 2019 GRC, University of North Dakota, University of North Dakota, University of North Dakota, Poster, 2019-07-24 Gordon Research Conference on Radiation and Climate

Mensch, C., Impacts of Vertical Resolution on Storm Indices in North Dakota, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Nasab, M., Impacts of Sub-daily Temperature Fluctuations on Macro-scale Snowmelt Simulations in the Missouri River Basin | ND EPSCoR 2019 Annual Conference, North Dakota State University, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Nasab, M., Developing Macro-HyProS: A Macro-scale Hydrologic Processes Simulator, North Dakota State University, Oral, 2019-05-23, ASCE 2019 World Environmental and Water Resources Congress, May 19-23, 2019, Pittsburgh, PA

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Roberts, D., A Multi-equation Approach to Modeling and Predicting Farmers' Aggregate Annual Acreage Allocation Decisions in North Dakota, Minnesota, and South Dakota, North Dakota State University, Presentation, 2019-03-27, 2019 ND EPSCoR State Conference

Scott, A., Kennedy, A., Using Noah-MP-Crop to study cropland impact on regional climate in the Northern Great Plains | 2019 Joint WRF and MPAS Users' Workshop, University of North Dakota, Poster, 2019-06-12, 2019 Joint WRF and MPAS Users' Workshop

Scott, A., Lucke, K., Kennedy, A., Simulating Land Surface Change Impacts on Climate in the Northern Great Plains | 2019 GRC, University of North Dakota, Poster, 2019-07-24, Gordon Research Conference on Radiation and Climate

Scott, A., Lucke, K., Simulating Land Surface Change Impacts on Weather and Climate in the Northern Great Plains | 2019 ND EPSCoR State Conference, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Shahabi, S., Effect of Wind Direction on Sea Surface Reflectance University of North Dakota Poster, 2019-03-27, ND EPSCoR 2019 State Conference, Fargo, ND

Sivertson (Larson), N., Effects of Varying Temperature on SOA Yields and Partitioning from North Dakota Crop Emissions, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference

Starr, J., Calculating the Impacts of Market and Policy changes on crop simulations of North Dakota's Prairie Pothole Region, University of North Dakota, Poster, 2019-03-27, 2019 ND EPSCoR State Conference

Starr, J., Evaluating the Reliability of NDVI as a Predictor of Albedo for Crop Types and Locations within the United States, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference

Steffan, J., Resilience of the Soil Microbial Community during CRP to Cropland Conversion: Results from a Three-Year Study in Eastern Montana, Poster, Soil Science Society of America Annual Meeting, 2019-01-07

Wang, N., A New Daily Semi-distributed Hydrologic Model for Depression Dominated Areas | ND EPSCoR 2019 Annual Conference, North Dakota State University, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Zanker, J., Investigating the Impact of Atmospheric Radiation on Agricultural Practices in North Dakota, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference

Zeng, L., Development of a Puddle-Based Unit Oriented SWAT (SWAT-PBU) Model for Simulating Depression-Dominated Rainfall-Runoff Processes | ND EPSCoR 2019 Annual Conference, North Dakota State University, Poster, 2019-03-27, 2019 ND EPSCoR Annual State Conference held 3/27/19 in Fargo, ND

Zhang, J., Shabani, A., Evaluating the Costs between Sheyenne River Salinity Damages and Devils Lake Flooding Adaptations University of North Dakota, University of North Dakota, Poster, 2019-03-27, ND EPSCoR 2019 State Conference

Akyüz, A. (May 2018). Opportunities and Challenges of Climate Change in the Northern Plains. Paper presented at the 16th Annual Climate Prediction Applications Science Workshop (CPASW), Fargo, ND.

Bassett, L., Land Management Changes and its Effects on Soil Nutrients, North Dakota State University, Oral, 2018-04-21, Dickinson State University Celebration of Scholars: Achievements in Research, Humanities, and the Arts (Annual undergraduate research symposium)

Bassett, L., Land Management Changes and its Effects on Soil Nutrients, North Dakota State University, Poster, 2018-04-21, Dickinson State University Celebration of Scholars: Achievements in Research, Humanities, and the Arts

Bazrkar, M.H., M.T. Nasab, L. Zeng, K. Grimm, N. Wang, X. Chu, Drought Identification in Cold Climate Regions: How Can Macro-scale Hydrologic Models Assist Drought Analysis?, North Dakota State University, North Dakota State University, North Dakota State University, North Dakota State University, North Dakota State University, Oral, 2018-05-23, 16th Annual Climate Prediction Applications Science Workshop, May 22-24, 2018, Fargo, ND.

Bowman, F., CCN Activity and Particle Growth of Aging Diesel Exhaust Particles, University of North Dakota, Presentation, 2018, 2018-09-04, 2018 American Institute of Chemical Engineers (AIChE) Annual Meeting

Bowman, F., CCN Activity and Particle Growth of Aging Diesel Exhaust Particles, University of North Dakota, Poster, 2018-09-04, 10th International Aerosol Conference, St Louis, Missouri

Carson, B., Comparison of Short-Term WRF Forecasts for Heavy Smoke Event in the Northern Great Plains by Assimilating NDAWN Network Observations, University of North Dakota, Poster, 2018-04-17, ND EPSCoR 2018 State Conference

Chu, X., Water Quantity and Quality Issues in Western North Dakota: Overview and Two Case Studies, oral, Water Resources of the US Great Plains Region: Status and Future, October 24-26, 2018, Lincoln, NE., 2018-10-25

Chu, X., M.T. Nasab, L. Zeng, K. Grimm, M.H. Bazrkar, X. Liu, N. Wang, Z. Lin, Joint Grid-based and Subbasin-based Hydrologic Modeling and Application, North Dakota State University, North Dakota State University, North Dakota State University, North Dakota State University, North Dakota State University, North Dakota State University, North Dakota State University, Oral, 2018-06-05, ASCE 2018 World Environmental and Water Resources Congress, June 3-7, 2018, Minneapolis, MN.

Fox, C., The presence of mercury in Lake Sakakawea, Nueta Hidatsa Sahnish College (Formerly known as Fort Berthold Community College), Poster, 2018-03-27, 6th Annual North Dakota Tribal College Research Symposium

Franzen, D., History of Soil Erosion and Nutrient Loss in North Dakota, North Dakota State University, Invited Speaker, 2018-12-18, Conservation Tillage Conference (CTC), Fargo, ND

Franzen, D., Soil Sampling for Precision Agriculture, North Dakota State University, Invited Speaker, 2018-05-10, Precision Ag Training for Under-served Institutions, Fort Collins, CO

Franzen, D., A. Wlck, Nutrient Non-cycling by cover crops, North Dakota State University, Invited Speaker, 2018-11-28, North Dakota Ag Association Northern Ag Expo, Fargodome, Fargo, ND

Grimm, K., Chu, X., Depressional Threshold Control Proxy to Simulate Dynamic Hydrologic Connectivity in Depression-dominated Areas, North Dakota State University, North Dakota State University, Oral, 2018, 2018-06-05, ASCE 2018 World Environmental and Water Resources Congress, June 3-7, 2018, Minneapolis, MN.

Hall, A., T. Sand-Driver, Juneberry (*Amelanchier anifolia*) phenology on Fort Berthold Indian Reservation, Nueta Hidatsa Sahnish College (Formerly known as Fort Berthold Community College), Poster, 2018-03-27, 6th Annual North Dakota Tribal College Research Symposium

Kennedy, A., Atmospheric Reanalyses: A tool for investigating hazardous weather events, University of North Dakota, Invited Speaker, 2018, 2018-04-05, University of Arizona Dept. of Hydrology and Atmospheric Sciences (HAS) Seminar Series

Kennedy, A., Extreme Weather of the Northern Plains: A look into the past, present, and future, University of North Dakota, Invited Speaker, 2018-05-17, 3rd District Medical Meeting. Grand Forks, ND

Kennedy, A., A. King, Hazardous Convective Environments in the North American Regional Reanalysis, University of North Dakota, University of North Dakota, Presentation, 2018, 2018-05-22, 16th Annual Climate Prediction Applications Science Workshop (CPASW), Fargo, ND May 22-24

Kennedy, A. (May 2018). Hazardous Convective Environments in the North American Regional Reanalysis. Paper presented at the 16th Annual Climate Prediction Applications Science Workshop (CPASW), Fargo, ND.

Kennedy, A., J. Starr, A. Trellinger, A. Shabani, Making Sense of Climate Change at a Local Level, University of North Dakota, University of North Dakota, University of North Dakota, University of North Dakota, Panel, 2018-03-21, <https://und.edu/orgs/writers-conference/current-conference/grand-challenges-information.cfm>, Grand Challenges Symposium at the 49th UND Writers Conference

Nasab, M.T., X. Chu, Topo-statistical analyses of ponding area versus ponding storage of depression-dominated regions for macro-scale hydrologic modeling, North Dakota State University, North Dakota State University, Oral, 2018-06-05, ASCE 2018 World Environmental and Water Resources Congress, June 3-7, 2018, Minneapolis, MN.

Scott, A., A. Kennedy, Initial development for simulating land surface change impacts on climate in the Northern Plains, University of North Dakota, University of North Dakota, Poster, 2018-06-23, Joint WRF/MPAS Users' Workshop

Shabani, A., Improving Devils Lake outlet management to reduce environmental impacts on the Sheyenne River, University of North Dakota, Poster, 2018-12-11, 2018 AGU Fall Meeting, Walter E. Washington Convention Center, Washington DC, December 10 – 14, 2018

Starr, J., Adding dynamic social-economic factors to crop simulations to improve acreage and yield predictions, University of North Dakota, Poster, 2018-04-17, ND EPSCoR 2018 State Conference

Starr, J., Utilizing space-borne remote sensing data to improve model parameter calibration in crop simulations, University of North Dakota, Poster, 2018-04-17, ND EPSCoR 2018 State Conference

Starr, J., J.S. Reid, Measuring the Impact of Human Decision Making through Utilization of a Coupled Crop Simulation and Economic Land-Use Model , University of North Dakota, Presentation, 2018-12-12, American Geophysical Union: Fall 2018 Meeting

Steffan, J., Evaluation of Soil Microbial Community Changes Under Different Agricultural Land Uses in Eastern Montana, USA, poster, 21st World Congress of Soil Science, 2018-08-14

Trellinger, A. (May 2018). Northern Plains Blizzards in Past and Future Climates. Paper presented at the 16th Annual Climate Prediction Applications Science Workshop (CPASW), Fargo, ND.

Voigt, L., Climate change effects on pollinators, Nueta Hidatsa Sahnish College (Formerly known as Fort Berthold Community College), Poster, 2018-03-27, 6th Annual North Dakota Tribal College Research Symposium

A New Model for Rainfall-runoff Simulation in Depression Dominated Areas, North Dakota State University, North Dakota State University, Oral, 2018-06-05, ASCE 2018 World Environmental and Water Resources Congress, June 3-7, 2018, Minneapolis, MN.

Zhang, J., Water and Society: Water Resources Management and Policy in a Changing World , University of North Dakota, Poster, 2018-12-09, AGU Fall meeting Washington DC

Zheng, H., CRP or No-till? Carbon Storage in Agricultural land, a case study in Minnesota, U.S., University of North Dakota, Presentation, 2018-06-28, World Congress of Environmental and Resource Economists

Denton, A. M. and A. Roy (2017): Cluster-overlap algorithm for assessing preprocessing choices in environmental sustainability. 2017 IEEE International Conference on Big Data (Big Data), Boston, MA, pp. 4212-4220. doi: 10.1109/BigData.2017.8258447

Gallina, M. F., Obert, M. L., Ruggles, R., Burshek, K., Munch, J. A. & Juntunen, C. L. (August 2016). Factors influencing farmers' and ranchers' land-use decision making. Poster presented at the Annual Convention of the American Psychological Association, Denver, CO.

Brevik, K. M., Jean, K., Bowman, F. M., & Bowen, B. (2015, June), Impact of the You're Hired! Program on Student Attitudes and Understanding of Engineering (RTP, Strand 4) Paper presented at 2015 ASEE Annual Conference and Exposition, Seattle, Washington.
10.18260/p.24228 (view)

Dissertations/Thesis

David Schwartz, Development and Validation of a Library for Iterative Window-based Processing of Geospatial Data, North Dakota State University, Center for Regional Climate Studies (CRCS), 2021-05

Bayarbat Badarch, David Roberts, Corn Yield Frontier and Technical Efficiency Measures in the Northern United States Corn Belt: Application of Stochastic Frontier Analysis and Data Envelopment Analysis, North Dakota State University, North Dakota State University, Center for Regional Climate Studies (CRCS), 2020-08

King, Austin, (2018), An Investigation of Severe Weather Environments in Atmospheric Reanalyses. M.S. Thesis, Department of Atmospheric Science, University of North Dakota

Battu, B., Denton, A., Region-based Data Mining on Agricultural Data, North Dakota State University, Thesis/Dissertation, 2019-09, <https://search.proquest.com/docview/2307190752>

King, A., An Investigation of Severe Weather Environments in Atmospheric Reanalyses, University of North Dakota, Thesis/Dissertation, 2019-04, [href="https://commons.und.edu/theses/2251/](https://commons.und.edu/theses/2251/)

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