

# STEPHEN P. GOOD

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- EDUCATION** 2013: *Ph.D.* Civil and Environmental Engineering, **Princeton University**  
2008: *M.S.* Civil Engineering, **Michigan Technological University**  
2004: *B.S.* Mechanical Engineering, **Carnegie Mellon University**
- POSITIONS HELD** 2021-Present: *Associate Professor*  
Department of Biological & Ecological Engineering, **Oregon State University**  
2015-2021: *Assistant Professor*  
Department of Biological & Ecological Engineering, **Oregon State University**  
2013-2015: *Postdoctoral Fellow* and *Assistant Research Professor* (2015)  
Department of Geology and Geophysics, **University of Utah**  
2008-2013: *Graduate Research Associate*  
Department of Civil and Environmental Engineering, **Princeton University**  
2005-2007: *Water and Sanitation Engineer*  
United States Peace Corps, **Dominican Republic**
- TEACHING PORTFOLIO** Courses taught at **Oregon State University**: term-year (enrollment on campus + eCampus)  
BEE 313 *Ecohydrology*, 4 Credits  
S-2016 (25), S-2017 (26), S-2018 (30), S-2019 (18), S-2020 (31), S-2021 (19)  
BEE 433/533 *Irrigation System Design*, 4 Credits  
W-2018 (5), W-2019 (4), W-2020 (3)  
BEE/WRE/WRS 505/605 *Reading and Conference Course*, 1 Credit  
Su-2016 (2), W-2016 (1), W-2018 (5)  
BEE 507/607 *BEE Departmental Seminar*, 1 credit (co-taught with G. Jones)  
W-2021 (9)  
BEE 512 *Physical Hydrology*, 3 Credits  
F-2016 (22), F-2017 (22), F-2018 (10), F-2019 (9), F-2020 (12+9), F-2021 (20+13)  
BEE 529 *Biosystems Modeling Techniques* 3 Credits  
W-2020 (6), W-2021 (10)
- GRANTS AND CONTRACT SUPPORT**
14. Levin, A. and **Good, S.P.** (2021-2023) "Ground-truthing Satellite-based Water Use Efficiency Estimates for Oregon Vineyards," *Agricultural Research Foundation* \$15,000
  13. **Good, S.P.** and Allen, S. (2021-2024) "Coupling ecosystem structure to habitat microclimate through GEDI derived canopy water storage estimates," *NASA* \$393,392 (20-GEDIST20-0030)
  12. **Good, S.P.** (2020) "Beginning Researchers Award" *Oregon State University, College of Agricultural Sciences*. \$1,000 for supporting undergraduate research experience.
  11. **Good, S.P.**, Jones, G., Crump, B. (2020) "AI for Earth Innovation Grant," *Microsoft Corporation*. \$15,000 in Azure Computational Credits.
  10. **Good, S.P.**, Crump, B. (2019-2022) "Assessment of predictions of hydrologic function based on aquatic DNA fragments." *NSF - Division of Earth Sciences*. \$425,000 (EAR1836768)
  9. **Good, S.P.**, Noone D., and Still, C. (2018-2022) "Collaborative Research: MSB-ENSA: Leveraging NEON to Build a Predictive Cross-scale Theory of Ecosystem Transpiration." *NSF - Division of Environmental Biology*. \$933,377 (DEB1802885) + \$8,117 (REU Supplement)
  8. Still, C., **Good, S.P.**, Schimleck, L., and Noone, D. (2018) "Acquisition of a solar-induced fluorescence system and hyperspectral camera for forestry, agricultural, and hydrological research in Oregon and the Pacific Northwest," *Oregon State University - Research Equipment Reserve Fund*. \$56,046.

7. **Good, S.P.**, Udell, C., and Wiman, N (2018-2019) “Development of economical wifi-connected open-source sap flux probes,” *Washington Tree Fruit Research Commission*. \$86,320. (TR-18-102).
6. **Good, S.P.** (2017) “Global Assessment of Plant Water Use Strategies Using Remote Sensing of Soil Moisture”, *NSF - Extreme Science and Engineering Discovery Environment (XSEDE)*, 255,500 SU's and 1TB (DEB160018), equivalent value of \$8,813.50.
5. **Good, S.P.**, and Still, C. J. (2016-2019) “Global Assessment of Plant Water Use Strategies Using Remote Sensing of Soil Moisture” *NASA* \$293,974 (NNX16AN13G)
4. **Good, S.P.** (2016-2018) “Assessment of Crop Water Use Through Stable Isotope Analysis” *Agricultural Research Foundation*, \$12,427 (ARF#8517A)
3. **Good, S.P.** and Bowen, G.B (2014-2015) “Microclimate and the hydrologic fate of soil moisture in the Colorado River plateau” *Rio Mesa Center - University of Utah*, \$2,496
2. **Good, S.P.** (2006) “Grant for rural water system development” *Ordenador Nacional para los Fondos Europeos de Desarrollo (ONFED) - European Union*, \$31,900
1. **Good, S.P.** (2006-2007) “Small Projects Assistance grant” *United State Agency for International Development (USAID)*, \$3,000

PEER

2021: (\*denotes student advised by S. P. Good)

REVIEWED

PUBLICATIONS

44. Li, B.\*, **Good, S. P.** (2020) “Information - based uncertainty decomposition in dual channel microwave remote sensing of soil moisture” *Hydrology and Earth System Science*. DOI: [10.5194/hess-2020-534](https://doi.org/10.5194/hess-2020-534)
43. Finkenbinder, C. E.\*, **Good, S. P.**, Allen, S. T., Fiorella, R. P., Bowen, G. J. (2021) “A Statistical Method for Generating Temporally Downscaled Geochemical Tracers in Precipitation” *Journal of Hydrometeorology* Vol 22 - 6, p1473 – 1486. DOI: [10.1175/JHM-D-20-0142.1](https://doi.org/10.1175/JHM-D-20-0142.1)
42. Li, Bonan\*, **Good, S. P.**, URycki, D. R.\* (2021) “The Value of L-Band Soil Moisture and Vegetation Optical Depth Estimates in the Prediction of Vegetation Phenology” *Remote Sensing* Vol 13 (7), 1343. DOI: [10.3390/rs13071343](https://doi.org/10.3390/rs13071343)
41. Fiorella, R. **Good, S. P.**, Allen, S., Guo, J., Still, C., Anderegg, W., Florian, C., Luo, H., Pingintha-Burden, N., Bowen, G. (2021) “Calibration Strategies for Detecting Macroscale Patterns in NEON Atmospheric Carbon Isotope Observations” *Journal of Geophysical Research: Biogeosciences* DOI: [10.1029/2020JG005862](https://doi.org/10.1029/2020JG005862)
40. Zhang, J., Guan, K., Peng, B., Jiang, C., Zhou, W., Yang, W., Pan, M., Franz, T., Heeren, D., Rudnick, D., Abimbola, O., Kimm, H., Caylor, K., **Good, S.P.**, Khanna, M., Gates G., Cai, Y., (2021) “Challenges and opportunities in precision irrigation decision-support systems for center pivots” *Environmental Research Letters*. DOI: [10.1088/1748-9326/abe436](https://doi.org/10.1088/1748-9326/abe436)

2020:

39. Al-Oqaili, F. M.\*, **Good, S. P.**, Higgins, C. W., Frost, K. (2020) “Differences in soil evaporation between row and interrow positions in furrowed agricultural fields” *Vadose Zone Journal*. Vol 19, e20086. DOI: [10.1002/vzj2.20086](https://doi.org/10.1002/vzj2.20086)
38. URycki, D.\*, **Good, S. P.**, Crump, B. C., Chadwick, J.\*, Jones, G. (2020) “River Microbiome Composition Reflects Macroscale Climatic and Geomorphic Differences in Headwaters” *Frontiers In Water*. Vol 2, 574728. DOI: [10.3389/frwa.2020.574728](https://doi.org/10.3389/frwa.2020.574728)
37. Arellano, N.\*, **Good, S. P.**, Sanchez-Murillo, R., Jarvis, T., Noone, D., Finkenbinder, C. E.\* (2020) “Bayesian estimates of the mean recharge elevations of water sources in the Central America region using stable water isotopes” *Journal of Hydrology: Regional Studies*. Vol 32, 100739. DOI: [10.1016/j.ejrh.2020.100739](https://doi.org/10.1016/j.ejrh.2020.100739)
36. Al-Oqaili, F. M.\*, **Good, S. P.**, Peters, T., Finkenbinder, C. E.\*, Sarwar, A. (2020) “Using stable water isotopes to assess the influence of irrigation structural configurations on evaporation losses in semiarid agricultural systems” *Agricultural and Forest Meteorology*. Vol 291, 108083. DOI: [10.1016/j.agrformet.2020.108083](https://doi.org/10.1016/j.agrformet.2020.108083)
35. Bassiouni, M.\*, **Good, S. P.**, Higgins, C. W., Still, C. J. (2020) “Plant Water Uptake Thresholds Inferred from Satellite Soil Moisture” *Geophysical Research Letters*. Vol 47 (7), e2020GL087077. p1-12. DOI: [10.1029/2020GL087077](https://doi.org/10.1029/2020GL087077)

2019:

34. Stoy, P. C., El-Madany, T., Fisher, J. B., Gentine, P., Gerken, T., **Good, S. P.**, Liu, S., Miralles, D. G., Perez-Priego, O., Skaggs, T. H., Wohlfahrt, G., Anderson, R. G., Jung, M., Maes, W. H., Mammarella, I., Mauder, M., Migliavacca, M., Nelson, J. A., Poyatos,

- R., Reichstein, M., Scott, R. L., and Wolf, S. (2019) “Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities” *Biogeosciences*. Vol 16, p3747-3775. DOI: [10.5194/bg-16-3747-2019](https://doi.org/10.5194/bg-16-3747-2019).
33. Adeh, E. H., **Good, S. P.**, Calaf, M., Higgins, C. W., (2019) “Solar PV Power Potential is Greatest Over Croplands.” *Scientific Reports*. Vol 9, 11442. DOI: [10.1038/s41598-019-47803-3](https://doi.org/10.1038/s41598-019-47803-3)

2018:

32. Talsma, C.\* **Good, S. P.**, Miralles, D.G. Fisher, J.B., Martens, B., Jimenez, C., Purdy, A. J. (2018) “Sensitivity of Evapotranspiration Components in Remote Sensing-Based Models” *Remote Sensing*. Vol 10 (10), 1601, p 1 - 28. DOI: [10.3390/rs10101601](https://doi.org/10.3390/rs10101601)
31. Bassiouni, M.\*, Higgins, C., Still, C., **Good, S.P.** (2018) “Probabilistic inference of ecohydrological parameters using observations from point to satellite scales” *Hydrology and Earth Systems Science*. Vol 22, p 3229 – 3243. DOI: [10.5194/hess-22-3229-2018](https://doi.org/10.5194/hess-22-3229-2018)
30. Talsma, C.\*, **Good, S.P.**, Jimenez, C., Martens, B., Fisher, J., Miralles, D., McCabe M., Purdy, A. (2018) “Partitioning of evapotranspiration in remote sensing-based models” *Agricultural And Forest Meteorology*. Vol 260, p 131 – 143. DOI: [10.1016/j.agrformet.2018.05.010](https://doi.org/10.1016/j.agrformet.2018.05.010)
29. Bowen, G., Putman, A., Brooks, R., Bowling, D., Oerter, E., and **Good, S.P.** (2018) “Inferring the source of evaporated waters using stable H and O isotopes” *Oecologia*. Vol 187, p 1025 – 1039. DOI: [10.1007/s00442-018-4192-5](https://doi.org/10.1007/s00442-018-4192-5)
28. **Good, S. P.**, URycki, D.\*, Crump, B (2018) “Predicting hydrologic function with aquatic gene fragments” *Water Resources Research*. Vol 54, p 2424 – 2435. DOI: [10.1002/2017WR021974](https://doi.org/10.1002/2017WR021974)
27. Tauro, F., Selker, J., van de Giesen, N., Abrate, T., Uijlenhoet, R., Porfiri, M., Manfreda, S., Caylor, K., Moramarco, T., Benveniste, J., Ciralo, G., Estes, L., Domeneghetti, A., Perks, M., Corbari, C., Rabiei, E., Ravazzani, G., Bogena, H., Harfouche, A., Brocca, L., Maltese, A., Wickert, A., Tarpanelli, A., **Good, S.P.**, Lopez Alcala, J., Petroselli, A., Cudennec, C., Blume, T., Hut, R., Grimaldi, S., (2018) “Measurements and Observations in the XXI century (MOXXI): innovation and multidisciplinary to sense the hydrological cycle” *Hydrologic Sciences Journal*. Vol 63, p 169 – 196. DOI: [10.1080/02626667.2017.1420191](https://doi.org/10.1080/02626667.2017.1420191)
26. Xu, X., Medvigy, D., Trugman, A., Guan, K., **Good, S.P.**, and Rodriguez-Iturbe, I. (2018) “Tree cover shows strong sensitivity to precipitation variability across global tropics” *Global Ecology and Biogeography*. Vol 27, p 450 – 460. DOI: [10.1111/geb.12707](https://doi.org/10.1111/geb.12707)
25. Guan, K., **Good, S.P.**, Caylor, K., Medvigy, D., Pan, M., Wood, E., Sato, H., Biasutti, M., Chen, M., Ahlstrom, A., Xu, X. (2017) “Simulated sensitivity of African terrestrial ecosystem photosynthesis to rainfall frequency, intensity, and rainy season length” *Environmental Research Letters*. Vol 13-2, 025013. DOI: [10.1088/1748-9326/aa9f30](https://doi.org/10.1088/1748-9326/aa9f30)

2017:

24. Li, Y., Guan, K., Gentine, P., Konings, A., Meinzer, F., Kimball, J., Xu, X., Anderegg, W., McDowell, N., Martinez-Vilalta, J., Long, D., and **Good, S. P.** (2017) “Estimating global ecosystem iso/anisohdry using active and passive microwave satellite data” *Journal of Geophysical Research: Biogeosciences*. Vol 122, p 3306 - 3321. DOI: [10.1002/2017JG003958](https://doi.org/10.1002/2017JG003958)
23. **Good, S.P.**, Moore, G. W., and Miralles, D. W. (2017) “A mesic maximum in biological water use demarcates biome sensitivity to aridity” *Nature: Ecology & Evolution*. Vol 1, p 1883 – 1888. DOI: [10.1038/s41559-017-0371-8](https://doi.org/10.1038/s41559-017-0371-8)
22. Esquivel-Hernandez, G., Sanchez-Murillo, R., Birkel, C., **Good, S.P.**, Boll, J. (2017) “Hydro-Climatic and Ecohydrological Resistance/Resilience Conditions Across Tropical Biomes of Costa Rica” *Ecohydrology*. Vol 10-6, e1860. DOI: [10.1002/eco.1860](https://doi.org/10.1002/eco.1860)
21. Manfreda, S., Caylor, K.K., **Good, S.P.** (2017) “An Ecohydrological Framework to Explain Shifts in Vegetation Organization Across Climatological Gradients” *Ecohydrology*. Vol 10-3, e1809. DOI: [10.1002/eco.1809](https://doi.org/10.1002/eco.1809)

2016:

20. Miralles, D.G., Nieto, R., McDowell, N.G., Dorigo, W.A., Verhoest, N.E.C., Liu, Y.Y., Teuling, A.J., Dolman, A.J., **Good, S.P.**, and Gimeno, L., (2016) “Contribution of water-limited ecoregions to their own supply of rainfall” *Environmental Research Letters*. Vol 11, No 124007, p 1-12. DOI: [10.1088/1748-9326/11/12/124007](https://doi.org/10.1088/1748-9326/11/12/124007)

19. Jameel, Y., Brewer, S., **Good, S.P.**, Tipple, B.J., Ehleringer, J.R., and Bowen, G.J. (2016) “Tap water isotope ratios reflect urban water system structure and dynamics across a semi-arid metropolitan area” *Water Resources Research*. Vol 52, p 5891 - 5910.  
DOI: [10.1002/2016WR019104](https://doi.org/10.1002/2016WR019104)
  18. **Good, S.P.**, Guan, K., Caylor, K.K. (2016) “Global patterns of the contributions of storm frequency, intensity, and seasonality to inter-annual variability of precipitation” *Journal of Climate*. Vol 29, p 3 – 15. DOI: [10.1175/JCLI-D-14-00653.1](https://doi.org/10.1175/JCLI-D-14-00653.1)
- 2015:
17. **Good, S.P.**, Noone, D., Bowen, G. J. (2015) “Hydrologic connectivity constrains partitioning of global terrestrial water fluxes” *Science*. Vol 349, p 175 – 177.  
DOI: [10.1126/science.aaa5931](https://doi.org/10.1126/science.aaa5931)
  16. **Good, S.P.**, Noone, D., Kurita, N., Benetti, M., and Bowen, G. J. (2015) “D/H Isotope Ratios In the Global Hydrologic Cycle” *Geophysical Research Letters*. 42, p 5042 – 5050,  
DOI: [10.1002/2015GL064117](https://doi.org/10.1002/2015GL064117)
  15. Gorski, G., Strong, C., **Good, S.P.**, Bares, R., Ehleringer, J.R., Bowen, G.J. (2015) “Vapor hydrogen and oxygen isotopes reflect water of combustion in the urban atmosphere” *Proceedings of the National Academy of Sciences*. Vol 112-11, p 3247 – 3252.  
DOI: [10.1073/pnas.1424728112](https://doi.org/10.1073/pnas.1424728112)
  14. Bowen, G.J., **Good, S.P.**, (2015) “Incorporating water isoscapes in hydrological and water resource investigations” *Wiley Interdisciplinary Reviews: Water*. Vol 2, p 107–119.  
DOI: [10.1002/wat2.1069](https://doi.org/10.1002/wat2.1069)
- 2014:
13. **Good, S.P.**, Kennedy, K. D., Stalker, J. C., Chesson, L. A., Valenzuela, L. O., Beasley, M. M., Ehleringer, J. R., Bowen, G. J. (2014) “Patterns of local and non-local water resource use across the western United States determined via stable isotope inter-comparisons,” *Water Resources Research*. Vol 50-10, p 8034–8049. DOI: [10.1002/2014WR015884](https://doi.org/10.1002/2014WR015884)
  12. Wang, L., **Good, S.P.**, Caylor, K.K. (2014) “Global synthesis of vegetation control on evapotranspiration partitioning,” *Geophysical Research Letters* Vol 41-19, p 6753–6757.  
DOI: [10.1002/2014GL061439](https://doi.org/10.1002/2014GL061439)
  11. Guan, K., **Good, S.P.**, Caylor, K. K., Sato, H., Wood, E. and Li, H. (2014) “Continental-scale impacts of intra-seasonal rainfall variability on simulated ecosystem responses in Africa,” *Biogeosciences*, 11, p 6939-6954. DOI: [10.5194/bg-11-6939-2014](https://doi.org/10.5194/bg-11-6939-2014)
  10. **Good, S. P.**, Mallia, D. V., Lin, J.C., Bowen, G. J. (2014) “Spatiotemporal variations of precipitation isotopes during superstorm sandy: combining crowdsourced sampling and stochastic Lagrangian atmospheric modeling” *PLoS ONE*. Vol 9-3, e91117.  
DOI: [10.1371/journal.pone.0091117](https://doi.org/10.1371/journal.pone.0091117)
  9. **Good, S.P.**, Soderberg, K., Guan, K., King, E. G., Scanlon, T., Caylor, K.K. (2014) “ $\delta^2\text{H}$  Isotopic flux partitioning of evapotranspiration over a grass field following a water pulse and subsequent dry down,” *Water Resources Research*, Vol 50-1, p1410–1432. DOI: [10.1002/2013WR014333](https://doi.org/10.1002/2013WR014333)
- 2013:
8. **Good, S. P.**, Rodriguez-Iturbe, I. R., Caylor, K., (2013) “Analytical expressions of variability in ecosystem structure and function obtained from three dimensional stochastic vegetation modeling,” *Proceedings of the Royal Society, A*. Vol 469-20130003.  
DOI: [10.1098/rspa.2013.0003](https://doi.org/10.1098/rspa.2013.0003).
  7. Wang, L., Niu, S. **Good, S. P.**, Soderberg, K., Zhou, X., Xia, J., Sherry, B., Lou, Y., Caylor, K., McCabe, M. (2013) “The effect of warming on grassland evapotranspiration partition using laser-based isotope monitoring techniques,” *Geochimica et Cosmochimica Acta*. Vol 111, p 28–38. DOI: [10.1016/j.gca.2012.12.047](https://doi.org/10.1016/j.gca.2012.12.047).
  6. Soderberg, K., **Good, S.P.**, O’Conner, M., Wang, L., Ryan, K., Caylor, K.K. (2013) “Using air parcel trajectories to model the isotopic composition of rainfall in central Kenya,” *Ecosphere*. Vol 4, art33. DOI: [10.1890/ES12-00160.1](https://doi.org/10.1890/ES12-00160.1)
- 2012:
5. Soderberg, K, **Good, S.P.**, Wang, L, Caylor, K.K. (2012) “Stable isotopes of water vapor in the vadose zone: A review of measurement and modeling techniques,” *Vadose Zone Journal*. Vol 11-3. DOI: [10.2136/vzj2011.0165](https://doi.org/10.2136/vzj2011.0165)

4. **Good, S.P.**, Soderberg, K., Wang, L., Caylor, K.K. (2012) “Uncertainties in the assessment of the isotopic ratios in surface fluxes: A direct comparison of techniques using laser-based water vapor isotope analyzers,” *Journal of Geophysical Research: Atmospheres*. Vol 117-D15301. DOI: [10.1029/2011JD017168](https://doi.org/10.1029/2011JD017168)
3. Wang, L., **Good, S.P.**, Caylor, K.K., Cernusak, L.A. (2012) “Direct quantification of leaf transpiration isotopic composition,” *Agricultural and Forest Meteorology*. Vol154-155, p 127–135. DOI: [10.1016/j.agrformet.2011.10.018](https://doi.org/10.1016/j.agrformet.2011.10.018)

2011:

2. **Good, S.P.**, Caylor, K.K. (2011) “Climatological determinants of woody cover in Africa,” *Proceedings of the National Academy of Sciences*. Vol 8-12, p 4902–4907. DOI: [10.1073/pnas.1013100108](https://doi.org/10.1073/pnas.1013100108)

2010:

1. Wang, L., Zou, C., O’Donnell, F., **Good, S.P.**, Franz, T., Miller, G.R., Caylor, K.K., Cable, J.M., Bond, B. (2010) “Characterizing ecohydrological and biogeochemical connectivity across multiple scales: a new conceptual framework,” *Ecohydrology*. Vol 5-2, p221-233. DOI: [10.1002/eco.187](https://doi.org/10.1002/eco.187)

EDITORIAL  
COMMENTS,  
BOOK  
CHAPTERS,  
& OTHER  
CONTRIBUTIONS

7. Veldman, Aleman, Alvarado, Anderson, Archibald, Bond, Boutton, Buchmann, Buisson, Canadell, Dechoum, Diaz-Toribio, Durigan, Ewel, Fernandes, Fidelis, Fleischman, **Good**, Griffith, Hermann, Hoffmann, Stradic, Lehmann, Mahy, Nerlekar, Nippert, Noss, Osborne, Overbeck, Parr, Pausas, Pennington, Perring, Putz, Ratnam, Sankaran, Schmidt, Schmitt, Silveira, Staver, Stevens, Still, Strömberg, Temperton, Varner, Zaloumis (2019) “Comment on ‘The global tree restoration potential’,” *Science*. Vol 366 (6463), eaay7976. DOI: [10.1126/science.aay7976](https://doi.org/10.1126/science.aay7976)
6. Griffith, D.M., Lehmann, C.E.R., Stromberg, C.A.E., Parr, C.L., Pennington, R.T., Sankaran, M.S., Ratnam J., Still, C.J., Powel, R.L., Hanan, N.P., Nippert, J.B., Osborne, C.P., **Good, S.P.**, Anderson, T.M., Holdo, R.M., Veldman, J.W., Durigan G., Tomlison, K.W., Hoffmann, W.A., Archibald, S., Bond, W.J. (2017) “Comment on ‘The extent of forests in dryland biomes’” *Science*. Vol 17, p 358, eaao1309. DOI: [10.1126/science.aao1309](https://doi.org/10.1126/science.aao1309)
5. **Good, S.P.**, Mallia, D.V., Denis, E.H., Freeman, K.H., Feng, X., Li, S., Zegre, N., Lin, J.C., Bowen, G.J. (2014) “High frequency trends in the isotopic composition of superstorm Sandy.” In: *Learning from the Impacts of Superstorm Sandy*. Edited by Bennington, B. and Farmer, E.C. ISBN-9780128015209 Elseiver, Boston USA  
DOI: [10.1016/B978-0-12-801520-9.00004-3](https://doi.org/10.1016/B978-0-12-801520-9.00004-3)
4. **Good, S.P.** and Bowen, G. J. (2014) “Crowd-sourced isotope study of Superstorm Sandy” *Piccarro Blog*. September 15th, 2014.  
<http://www.picarro.com/community/blog>.
3. Soderberg, K., **Good, S.P.**, Guan, K, and King, E.G. (2011) “Ecohydrology: also known as growing grass,” In: *Mpala Memos*, April Issue, Mpala Research Centre and Wildlife Foundation, Laikipia Kenya. April 2011 Issue.  
[http://www.mpala.org/Get\\_our\\_Newsletter.php](http://www.mpala.org/Get_our_Newsletter.php)
2. Mihelcic, J.R., Fry, L.M., Myre, E.A., Phillips, L.D., and Barkdoll B.D. (2009) “Field Guide to Environmental Engineering for Development Workers.” *Chapter 11: Gravity-Fed Water Supply Systems*, contributing authors: Niskanen, M.A., Reents, N., Simpson J.D., and **Good, S.P.** ISBN-978-0-7844-0985-5, ASCE Press. Reston, VA.  
DOI: [10.1061/9780784409855.ch11](https://doi.org/10.1061/9780784409855.ch11)
1. Marszalek, M., Snauffer, A., **Good, S.P.**, Hein, G., Monte, A. (2005) “Mentors Improve the College Experience of Engineering Undergraduates.” *Proceedings of the 35th ASEE/IEEE Frontiers in Education Conference*. ISBN-0-7803-9077-6, IEEE Press.  
DOI: [10.1109/FIE.2005.1612063](https://doi.org/10.1109/FIE.2005.1612063)

PUBLISHED  
DATASETS  
AND  
SOFTWARE

4. **Good, S. P.**, Guan, K., Caylor, K. K. (2021) Dataset of ‘Global Patterns of the Contributions of Storm Frequency, Intensity, and Seasonality to Interannual Variability of Precipitation’ *Hydroshare*.  
<http://www.hydroshare.org/resource/385acd1dc21e4198b73ecd912313b01d>

3. URycki, D. R.\*, **Good, S. P.**, Crump, B. C., Chadwick, J.\*, Jones, G. (2020) Genohydro: Assessment of predictions of hydrologic function based on aquatic DNA fragments - BioProject, *National Center for Biotechnology Information*. Accession: PRJNA642636. <https://www.ncbi.nlm.nih.gov/bioproject/PRJNA642636/>
2. URycki, D. R.\*, **Good, S. P.** (2020). StreamStats Data Query (Version 1.0.0) *Zenodo*. DOI: [10.5281/zenodo.3902476](https://doi.org/10.5281/zenodo.3902476)
1. URycki, D. R.\*, **Good, S. P.** (2020). River Microbiome and Watershed Characteristics Analysis *Zenodo*. DOI: [10.5281/zenodo.3902478](https://doi.org/10.5281/zenodo.3902478)

SEMINARS  
AND  
GUEST  
LECTURES

19. Horticulture Program (**Invited speaker**) “How Much Water Do All Those Plants Need: Measuring Transpiration From Space,” Linn-Benton Community College (2020), ~10 attendees, February 26, 2020.
18. 2019 OSU Extension Annual Meeting (**Invited speaker**) “How Much Water Do All Those Plants Need: Measuring Transpiration From Space,” Oregon State University. Speaker (2019), ~50 attendees, December 2, 2019
17. Academy For Lifelong Learning (**Invited Speaker**) “How Much Water Do All Those Plants Need: Measuring Transpiration From Space”, First Congregational United Church, Corvallis OR. ~ 45 attendees, October 15, 2019
16. Department of Ecology and Urban Studies (**Invited speaker**) “Probabilistic inference of ecohydrologic parameters,” Peking University. Beijing, China. ~25 attendees, April 14, 2019
15. Subsurface Biogeochemistry Research Science Focus Area (**Invited speaker**) “Using Aquatic Gene Fragments To Quantify Macroscale Ecohydrology,” Pacific Northwest National Lab. Richland, WA. ~15 attendees, March 7, 2019
14. Ecological Engineering Student Society (**Invited speaker**) “Quantifying Plant Water Use With Evapotranspiration Partitioning,” Oregon State University. ~15 attendees, October 17, 2016
13. Engineers Without Borders (**Invited speaker**) “Rural Water And Sanitation in the Dominican Republic 2005-2007,” Oregon State University. Corvallis OR. ~15 attendees, February 11, 2016
12. Crop and Soil Science (**Invited speaker**) “Assessment of plant water use across scales,” Oregon State University. Corvallis, OR, ~20 attendees, February 8, 2016
11. Water Resources Graduate Program (**Invited speaker**) “Quantifying Plant Water Use With Evapotranspiration Partitioning,” Oregon State University. Corvallis, OR. ~15 attendees, January 20, 2016
10. General session (**Invited speaker**) “Assessing Plant Water Use Through Geochemistry”, 42nd Annual Hermiston Farm Fair and Trade Show. Hermiston OR. ~25 attendees, December 3, 2015
9. Corvallis Climate Change Research Community (**Invited speaker**) “Consequences of shifts in hydro-climate variability,” Oregon State University. Corvallis, OR. ~10 attendees, November 17, 2015
8. Department of Civil Engineering (**Invited speaker**) “Ecohydrologic Function Across scales,” Purdue University. West Lafayette, ID. ~25 attendees, February 25, 2015
7. Department of Geology and Meteorology (**Invited speaker**) “Ecohydrologic Function Across scales,” Iowa State University. Ames, IA. ~25 attendees, February 19, 2015
6. Department of Natural Resources & Environmental Science (**Invited speaker**) “Ecohydrologic Function Across scales,” University of Illinois, Urbana-Champaign. Urbana, IL. ~30 attendees, February 10, 2015
5. School of Earth Sciences & Environmental Sustainability (**Invited speaker**), “Evapotranspiration Flux Partitioning Across Scales,” Northern Arizona University. Flagstaff, AZ. ~15 attendees, November 25, 2014
4. Biological & Ecological Engineering Department (**Invited speaker**), “Evapotranspiration Flux Partitioning,” Oregon State University. Corvallis, OR. ~10 attendees, August 8, 2014.
3. Department of Natural Resources & Environmental Science (**Invited speaker**) “Ecohydrology and Climate Variability in the Present and Future,” University of Nevada, Reno. Reno, NV. ~20 attendees, May 14, 2014
2. Institute For Data Sciences (**Invited speaker**) “Ecohydrology and Climate Variability in the Present and Future,” University of Rochester. ~20 attendees, Rochester, NY. March 6, 2014

1. Department of Geology & Geophysics (**Invited speaker**) “Refining the Hydrologic Cycle,” University of Utah. Salt Lake City, UT. ~25 attendees, September 7, 2014

STUDENT  
MENTORING  
AND  
TRAINING

Graduate and Undergraduate Students Advised:

15. Gabriel Barinas, **PhD - Water Resources Engineering** 2021-2025 (expected)
14. Zachary Buttler, **PhD - Water Resources Science** 2021-2025 (expected)
13. Collen Swafford, **BS - Ecological Engineering** 2018-2022 (expected)
12. Catherine Finkenbiner, **PhD - Water Resources Engineering** 2017-2021 (expected)  
*Ron Miner Fellowship recipient*
11. Dawn URycki, **PhD - Water Resources Engineering** 2016-2021 (expected)  
*John W. and Matha B. Wolfe Memorial Scholarship recipient*
10. Bonan Li, **PhD - Water Resources Engineering** 2017-2021
9. Jackson Miller, **BS - Ecological Engineering** 2017-2021
8. Lindsey Spencer, **BS - Ecological Engineering** 2017-2021  
*Ag Engineering Student of 1941 Endowment recipient, 2021 CAS Outstanding Senior*
7. Firas M. Al-Oqailli, **PhD - Water Resources Science** 2015-2020  
*Michael and Mary Frances Campana Award recipient*
6. Will Richardson, **MS - Water Resource Engineering** 2018-2020  
*Ron Miner Fellowship recipient*  
*Bill and Jane Jackson Award recipient*
5. Maoya Bassiouni, **PhD - Water Resources Engineering** 2015-2019 (Co-advised)  
*NSF Graduate Research Fellowship recipient*
4. Logan Adams, **BS - Ecological Engineering** 2015-2019  
*Andrew & Merle Hashimoto Scholarship recipient*  
*Dale Kirk Endowment recipient*
3. Jessica Chadwick, **BS - Ecological Engineering** 2015-2019  
*Dale Kirk Endowment recipient,*  
*John W. and Matha B. Wolfe Memorial Scholarship recipient*
2. Lisabeth Nicole Arellano, **MS - Water Resources Science** 2015-2019  
*Served as Peace Corps Volunteer in Panama (2016-2018)*  
*Savery Award recipient*
1. Carl Talsma, **MS - Water Resource Engineering** 2016-2018  
*Ron Miner Fellowship recipient*

Additional Student Committee Service:

22. Jordan Jimmie, **PhD - Water Resources Engineering** 2020-2024 (expected)
21. Grace Goldrich-Middaugh, **MS - Water Resources Science** 2020-2022 (expected)
20. Azad Dazaea, **PhD - Civil Engineering** 2018-2022 (expected)
19. Matthew Tippet-Vannini, **MS - Water Resources Engineering** 2020-2022 (expected)
18. Cheng Shi, **PhD - Biological & Ecological Engineering** 2019-2023 (expected)
17. Erik Rose, **PhD - Environmental Science** 2017-2021 (expected)
16. Marja Haggisma, **PhD - Water Resources Engineering** 2017-2021
15. Emmanuel Davilla-Santiago, **MS - Biological & Ecological Eng.** 2018-2020
14. Baily Burke, **BS - Microbiology** 2016 - 2020
13. Marilee Hoyle, **BS - Environmental Science** 2016 - 2020
12. Gouri Mahadwar, **MS - Water Resources Engineering** 2017-2019
11. Jon Laurence, **MS - Chemical Engineering** 2017-2019 (as GCR)
10. Haider Kadhum, **PhD - Biological & Ecological Engineering** 2015-2019 (as GCR)
9. Brett Stoddard, **BS - Electrical Engineering** 2015-2019
8. Sydney Weiss, **MS - Water Resource Science** 2017-2019
7. Meredith Hammervold, **MS - Environmental Engineering** 2016-2018 (as GCR)
6. Tyler Inberg, **BS - Electrical Engineering** 2014-2018
5. Cristina Riani, **BS - Environmental Science** 2014-2018
4. Michell Hu, **MS - Water Resource Science** 2016-2018
3. Kaleb Horlick, **MS - Atmospheric Science** 2016-2018 (as GCR)
2. Elnaz Hassanpour, **PhD - Water Resources Engineering** 2014-2018
1. Kate Fickas, **PhD - Forest Ecosystems & Society** 2014-2018

Post-Docs Advised and Visiting Faculty Hosted:

1. Pei Wang, **Visiting Faculty** 2018-2019 (from Beijing Normal University, China)

ACADEMIC  
AND  
COMMUNITY  
SERVICE

Synergistic And Outreach Activities:

21. Short-course Instructor (2021), *Isotopes in Spatial Ecology and Biogeochemistry Short Course*, **University of Utah**. ~25 attendees, 2-13 August.
20. Team Member (2021) *NASA Global Ecosystem Dynamics Investigation (GEDI) Science Team*. ~ 20 members. 2021 - 2024
19. Mentor (2020), **Saturday Academy**, “Apprenticeships in Science and Engineering .” Mentored an 10th grade high school student throughout summer.
18. Session co-chair (2019), **AGU Fall Meeting**, “Stable Isotopes in the Critical Zone: Methods, Applications, and Process Interpretations.” ~65 attendees, 12/12/19, San Fransisco, CA
17. Workshop Attendee (201), *Subsurface Biogeochemistry Research Science Focus Area: Community Watershed Workshop*. **Pacific Northwest National Laboratory**, ~ 100 attendees, 09/11/19-09/12/19. *Richland, WA*.
16. Short-course Instructor (2019), *Isotopes in Spatial Ecology and Biogeochemistry Short Course*, **University of Utah**. ~20 attendees, 9-22 June.
15. Proposal Review Panel Member (2019), *Macrosystems Biology*. **National Science Foundation**. ~30 attendees, 1-4 May
14. Mentor (2018), **Saturday Academy**, “Apprenticeships in Science and Engineering .” Mentored an 11th grade high school student throughout summer.
13. Session co-chair (2018), **AGU Fall Meeting**, “Stable Isotopes in the Critical Zone: Methods, Applications, and Process Interpretations.” ~70 attendees, 12/11/18, Washington, DC
12. Spanish translator (2018), *Family Math & Science Night*, **Lincoln Elementary School**. Corvallis, OR. ~100 attendees, 21 February
11. Team Member (2017) *NASA Soil Moisture Active - Passive (SMAP) Science Team*. ~ members. 2017 - 2020
10. Proposal Review Panel Member (2017), *Terrestrial Hydrology* **National Atmospheric & Space Administration** 11/15/17 - 11/17/17, Silver Springs, MD
9. Engineers Without Borders faculty mentor (2017), **Oregon State University**. Project implementation trip, 5 students, 08/31/17 - 09/08/17, Los Potrerios, Nicaragua
8. Organizing Committee: Integrated Carbon-Water Ecological & Biogeochemical Synthesis (ICWEBS) Conference (2017), **National Science Foundation & National Ecological Observation Network**. ~50 attendees, 26/02/17-01/03/17, Stevenson, WA
7. Engineers Without Borders faculty mentor (2016), **Oregon State University**. Project implementation trip, 5 students, 08/21/16 - 09/04/16, Los Potrerios, Nicaragua
6. Session co-chair (2015), **AGU Fall Meeting**, “Water Isotope Systematics: Improving Modern and Paleoclimate Interpretations.” ~60 attendees, 12/15/15, San Fransisco, CA
5. Laboratory Instructor (2014-2015): *Isotopes In Spatial Ecology and Biogeochemistry Summer Course*. **University of Utah**. ~25 attendees (each year). Salt Lake City, UT.
4. Session co-chair (2013), **AGU Fall Meeting**, “Beyond changes in mean climate: the impacts of climate variability on terrestrial ecosystems.” ~50 attendees, 12/12/13, San Fransisco, CA
3. Volunteer (2009-2013), **Delaware & Raritan Greenway Land Trust**, Princeton, NJ
2. Graduate advisor (2008), **Engineers Without Borders**, Princeton University chapter, Princeton, NJ
1. Graduate Mentor (2004) *Graduate-Undergraduate Initiative for Development and Enhancement (GUIDE)* program **Michigan Technological University**, Houghton, MI

Leadership & Committee Roles:

- Promising Scholar Fellowship Review Committee, **Graduate School** (2021)  
Associate Director, **Water Resource Engineering Program** (2019-)  
Associate Editor, **Journal of Hydrometeorology** (2019-)  
Faculty Search Committee (Extension Irrigation Specialist), **BEE Department** (2020)  
Community Engagement committee, **BEE Department** (2019-)  
Faculty Search Committee (Water Quality Specialist), **BEE Department** (2016)  
Graduate Program Committee, **BEE Department** (2015-present)  
Undergraduate Program Committee, **BEE Department** (2015-2019)

Society Memberships (Current and Past):

- AGU**: American Geophysical Union (2009 - Present)



**EWB:** Engineers Without Borders (2010 - Present)  
**ASABE:** American Society of Agricultural And Biological Engineers (2017 - 2019)  
**IAG:** International Association of Geochemistry (2011 - 2013)

Academic Peer-Reviews (Year×Count):

**Advances In Water Resources** ('15, '17, '19)  
**Agricultural and Forest Meteorology** ('15, '16, '18×3)  
**Atmospheric Chemistry and Physics** ('20)  
**Atmospheric Measurement Techniques** ('14)  
**Biogeosciences** ('15, '18)  
**Climate Dynamics** ('15)  
**Ecohydrology** ('13)  
**Earth and Planetary Science Letters** ('18)  
**Geophysical Research Letters** ('15, '16, '17, '19)  
**Global Ecology and Biogeography** ('14, '15)  
**Hydrology & Earth System Science** ('12, '14×2, '15×2, '16, '19×2)  
**Hydrological Processes** ('15, '16, '19×2)  
**ISPRS Journal of Photogrammetry and Remote Sensing** ('14)  
**J. of Applied Meteorology and Climatology** ('19)  
**J. of Geophysical Research** ('12×2, '13×3, '14, '15×2, '16)  
**J. of Hydrology** ('13, '15, '16, '17, '18)  
**J. of Hydrometeorology** ('15, '16, '17, '18, '20)  
**Mountain Research And Development** ('17)  
**Nature** ('18)  
**Nature Geoscience** ('15)  
**Nature Communications** ('20)  
**National Science Foundation** ('15×2, '16×2, '17, '18)  
**PLoS One** ('14)  
**Proceedings of the National Academy of Sciences** ('17)  
**Rapid Communications in Mass Spectrometry** ('14, '16, '17)  
**Reviews of Geophysics** ('18)  
**Science Advances** ('15, '17)  
**Science** ('17)  
**Swiss National Science Foundation** ('19)  
**United States Environmental Protection Agency** ('16)  
**United States Geologic Survey** ('17)  
**Vadose Zone Journal** ('15)  
**Water Resources Research** ('15×2, '18, '19)

**AWARDS AND FELLOWSHIPS**  
2011: Graduate Student Early Career Award  
**IsoMAP project for Isoscapes 2011 meeting**  
2011: Young Investigator Award  
**BASIN Conference on the Roles of Stable Isotopes in Water Cycle Research**  
2008: Gordon Y. S. Wu Graduate Fellowship In Engineering  
**Princeton University**  
2005: Great Lakes Summer Research Fellowship  
**NOAA Great Lakes Environmental Research Laboratory**

**MEDIA COVERAGE**  
“Top 10 Social Media Stories (2019)” **National Science Foundation**, Jan 6, 2020.  
<https://nsgov.home.blog/2020/01/06/top-10-social-media-stories/>  
“Farmland Is Also Optimal for Solar Power” **Scientific American** by S. Barn  
<https://www.scientificamerican.com/podcast/episode/farmland-is-also-optimal-for-solar-power/>  
“Using microbes to predict the flow of Arctic rivers” **EOS Magazine** by E. Underwood.  
DOI: [10.1029/2018EO097801](https://doi.org/10.1029/2018EO097801) (Vol 99) Published on 15 May 2018  
“Research finds ‘sweet spot’ for plant transpiration” **Capital Press**

- [www.capitalpress.com/Research/20171205/research-finds-sweet-spot-for-plant-transpiration](http://www.capitalpress.com/Research/20171205/research-finds-sweet-spot-for-plant-transpiration)  
 “Slight climate shifts can affect optimum water use in plant communities” **Phys.org**  
<https://phys.org/news/2017-11-slight-climate-shifts-affect-optimum.html>  
 “Isotopes reveal the origin of any given drop of water” **Oregons Agriculture Progress** by  
 Ben Davis <http://oregonprogress.oregonstate.edu/winter-2017/tracing-movement-water>  
 (Winter 2017 Vol.) Published February 2017.  
 “Isotopes from the Tap Reveal Urban Water System Dynamics” **EOS Magazine** by S. Stanely  
 DOI: [10.1029/2016EO059879](https://doi.org/10.1029/2016EO059879) (Vol. 97) Published on 27 September 2016  
 “These Gorgeous Water Maps Are Helping Identify Fake Scotch and Murder Victims”  
**Nautil.us** by Julia Rosen, <http://nautil.us/blog/these-gorgeous-water-maps-are-helping-identify-fake-scotch-and-murder-victims>  
 “Water, bound and mobile” **Science Magazine** by J. Renée Brooks  
 DOI: [10.1126/science.aac4742](https://doi.org/10.1126/science.aac4742) (Vol. 349 no. 6244, p 138-139)  
 “Water in smog may reveal pollution sources,” **Phys.org**  
<http://phys.org/news/2015-03-smog-reveal-pollution-sources.html>  
 “Hurricane Sandy’s Rainfall Decoded Via CrowdSourcing,” **LiveScience.com**  
<http://www.livescience.com/44028-hurricane-sandy-rainfall-study-crowdsourced.html>

LANGUAGE Spoken:  
 PROFICIENCY English (native), Spanish (fluent), French (basic), Swahili (introductory)  
Computational:  
 Python, Matlab, R, C++, Fortran, Java, Perl, L<sup>A</sup>T<sub>E</sub>X

- CONFERENCE Oral Presentations: (\*denotes student advised by S.P. Good)  
 AND  
 WORKSHOP  
 PRESENTATIONS
41. Finkenbiner, C. E.\*, **Good, S. P.**, Brooks, J. R. (2020) ‘Testing the incorporation of ecohydrological separation into Hydrus-1D using isotopic tagging. *AGU Fall Meeting 2020*. H106-07. Virtual Meeting. 1-17 Dec.
  40. Allen, S., Fiorella, R., Guo, J., **Good, S.P.**, Noone, D., Anderegg, W., Bowen, G., (2019) ‘Canopy interception losses of rainfall in North American biomes.’ *AGU Fall Meeting 2019*. San Fransisco, CA. 9-13 Nov.
  39. **Good, S.P.** (2019) ‘Partitioning evapotranspiration flux, a grand challenge linking hydrology and ecology (Invited),’ *International workshop on dynamics of water limited ecosystems in a drying climate*. Beijing, China. 15-17 Apr.
  38. Li, B.\*, **Good, S.P.**, (2019) ‘Evaluation of soil moisture active passive (SMAP) soil and vegetation data products for predicting changes in vegetation phenology’ *9th Annual Pacific Northwest Water Research Symposium*. Corvallis, OR. 8-9 Apr.
  37. Al-Oqailli, F.\*, **Good, S.P.**, (2019) ‘Estimating evaporation losses from the hazelnut fields in the Pacific Northwest with three drip irrigation treatments using stable water isotope ratios’ *9th Annual Pacific Northwest Water Research Symposium*. Corvallis, OR. 8-9 Apr.
  36. Fiorella, Anderegg, **Good, S.P.**, Noone, Still, Bowen (2019) ‘Developing a Continental-scale Theory for Predicting Ecosystem Transpiration with NEON Flux Tower Measurements’ *EGU General Assembly 2019*. Vienna, Austria 7-12 Apr.
  35. Jones, Droz, Hirschi, Seneviratne, Smith, Smith, **Good, S.P.**, Winkel (2018) ‘Global environmental variability drives trace element changes in soils’ *AGU Fall Meeting 2018*. Washington, DC. 10-14 Nov.
  34. Al-Oquaili\*, **Good, S.P.**, Peters (2018) ‘Estimating soil evaporation from different irrigation system designs using isotope geochemistry’ *AGU Fall Meeting 2018*. Washington, DC. 10-14 Nov.
  33. **Good, S.P.**, Urucki\*, Crump, Chadwick\* (2018) ‘Genohydrology: Using Aquatic Gene Fragments to Quantify Macroscale Ecohydrologic Function (Invited)’ *AGU Fall Meeting 2018*. Washington, DC. 10-14 Nov.
  32. Li\*, **Good, S.P.**, (2018) ‘Evaluation of Soil Moisture Active Passive (SMAP) soil and vegetation data products for predicting changes in vegetation phenology’ *AGU Fall Meeting 2018*. Washington, DC. 10-14 Nov.
  31. **Good, S.P.**, Bassiouni\*, M., Higgins, C., Still, H. (2018) “SMAP Derived Soil Moisture Thresholds” *2018 Science Utilization of SMAP (SUSMAP) Meeting*. Arcadia, CA. 27-28 November

30. Al-Oquaili, F.\*, and **Good, S.P.** (2018) “Using stable water isotopes to estimate soil evaporation from different irrigation systems’ *8th Annual Pacific Northwest Water Research Symposium*. Corvallis, Oregon. 23-24 Apr.
29. Talsma, C.\*, **Good, S.P.**, Jimenez, C., Martens, B., Fisher J. (2017) “Evaluation of Evapotranspiration Partitioning in Remote Sensing Models.” *AGU Fall Meeting 2017*, H11M-08. New Orleans, LA. 11-15 Dec.
28. Xu, X., Medigy, D., Guan, K., Trugman, A., **Good, S.P.**, Rodriguez-Iturbe, I. (2017) “Precipitation variability as a strong determinant on tree cover across global tropics.” *AGU Fall Meeting 2017*, H21M-05. New Orleans, LA. 11-15 Dec.
27. Li, Y., Guan, K., Gentine, Konings, A., Bhattacharya, A., Meinzer., Kimball, J., Xu, X., Anderegg, W., McDowell, N., Long, D., **Good, S.P.**, (2017) “Estimating ecosystem iso/anisohdry using microwave satellite data and its applications in ecohydrology.” *AGU Fall Meeting 2017*, H21M-07. New Orleans, LA. 11-15 Dec.
26. Bowen, G., Putman, A., Brooks, J., Bowling, D., Oerter, E., **Good, S.P.** (2017) “Inferring the source of evaporated waters using stable H and O isotopes.” *AGU Fall Meeting 2017*, H22A-06. New Orleans, LA. 11-15 Dec.
25. **Good, S.P.**, URycki, D., and Crump, B. (2017) “ Predicting Hydrologic Function with the Streamwater Microbiome” 2017 American Water Resources Association Annual Meeting. Portland OR., November 5-7.
24. **Good, S.P.**, Bassiouni, Maoya. (2017) “Global Assessment of Plan Water Use Strategies Using Remote Sensing of Soil Moisture” *2017 Science Utilization of SMAP (SUSMAP) Meeting*. Cambridge, MA.19-20 October.
23. Al-Oquaili\*, F., **Good, S.P.**, Frost, K. (2017) “Using Stable Isotope Data to Assess Soil Evaporation from Potato Fields with Contrasting Irrigation Schedules” *American Society of Agricultural and Biological Engineers Annual Meeting* 103-1701561. Spokane, WA. 16-19 July.
22. Miralles, D.G., Nieto, R., McDowell, N.G., Dorigo, W.A., Verhoest, N.E.C., Liu, Y.Y., Teuling, A.J., Dolman, A.J., **Good, S.P.**, and Gimeno, L., (2017) “Contribution of water-limited ecoregions to their own supply of rainfall” *EGU General Assembly 2017*. EGU2017-4636. Vienna, Austria. 23-28 April.
21. Al-Oquaili, F.\*, Frost, K., and **Good, S.P.** (2017) “Estimation of Evaporation from Two Potato Fields with Contrasting Irrigation Schedules Using State Isotope Tracers” *7th Annual Pacific Northwest Water Research Symposium*. Corvallis, Oregon. 6-7 March.
20. Bassiouni\*, M., and **Good, S.P.** (2017) “Inverse Modeling to Estimate Plant Hydraulic Strategies from Remotely-Sensed Soil Moisture” *7th Annual Pacific Northwest Water Research Symposium*. Corvallis, Oregon. 6-7 March.
19. **Good, S. P.** (2017) “Water Partitioning: A Grand Challenge” (Invited) *Integrated Carbon-Water Biogeochemical Synthesis Conference*, Skamania Lodge, Washington. February 27-28.
18. Selker, J., Roques, C., Higgins, C., **Good, S.P.**, Hut R., Selker, A., (2015) “A new chapter in environmental sensing: The Open-Source Published Environmental Sensing (OPENS) laboratory (Invited),” *AGU Fall Meeting 2015*, H51R-04. San Fransisco, California. 14-18 Dec.
17. **Good, S.P.**, Noone, D., Kurita, K., Benetti, M., Bowen, G. (2015) “D/H isotope ratios in the global hydrologic cycle constrain the partitioning of global terrestrial water fluxes (Invited),” *AGU Fall Meeting 2015*, B54A-06. San Fransisco, California. 14-18 Dec.
16. **Good, S.P.**, Wang, L., Caylor, K. (2015) “Global optimum vegetation rain water use is determined by aridity,” *AGU Fall Meeting 2015*, H12B-05. San Fransisco, California. 14-18 Dec.
15. Bowen, G.J., Putman, A., Vander Zanden, H. **Good, S.P.**, Liu, Z., Terzer, S. Zhao, L., West, J. (2015) “Leveraging GNIP and investigator research to map isotopic climate: two decades of precipitation Isoscapes”, *International symposium on isotope Hydrology* IAEA-CN-225-194. Vienna, Austria. 11-15 May.
14. Manfreda, S., Caylor, K. K., **Good, S.P.** (2014) “An ecohydrological framework to explain shifts in vegetation organization across climatological gradients”, *AGU Fall Meeting 2014*, H33L-02. San Fransisco, California. 15-19 Dec.
13. Gorski, G., **Good, S.P.**, Bowen, G. J. (2014) “Fossil Fuel Combustion Fingerprint in High-Resolution Urban Water Vapor Isotope Measurements”, *AGU Fall Meeting 2014*, B24D-05. San Fransisco, California. 15-19 Dec.

12. Bowen G., Kennedy C., **Good, S. P.**, Ehleringer J. (2014) "Isotopic metrics for structure, connectivity, and residence time in urban water supply systems" *EGU General Assembly*, EGU2014-20134. Vienna, Austria. 22-27 April.
11. **Good, S. P.**, Bowen, G. J. (2014) "Stable Isotopes as tools for Investigations of Provenance" *Intelligence Community Postdoctoral Research Fellowship Colloquium*. Institute for Peace, Washington DC. 29 Apr.- 1 May
10. Bowen, G. J. **Good, S. P.** (2014) "Fast Analysis and Flexible Networks: IRIS and Citizen Science Give an Unprecedented View of Hydrological Events" *Consortium of Universities for the Advancement of Hydrologic Sciences Incorporated - Laser Spectroscopy Virtual Workshop*. Online, 10 Feb.
9. **Good, S. P.**, Noone, D., Bowen, G. J. (2013) "Estimation of the isotopic composition of evapotranspiration based on Tropospheric Emission Spectrometer HDO moisture convergence" *AGU Fall Meeting 2013*, PP42C-05. San Francisco, California. 9-13 Dec.
8. Guan, K., **Good, S. P.**, Caylor, K.K. (2013) "Seasonal rainfall variability and its significance to terrestrial ecosystems in Africa" *AGU Fall Meeting 2013*, B51J-08. San Francisco, California. 9-13 Dec.
7. **Good, S. P.**, Mallia, D. V., Lin, J.C., Bowen, G. J. (2013) "High-density spatiotemporal monitoring of water transport in hurricane sandy using stable isotopes," *125th Meeting of the Geological Society of America*, 232298. Denver, Colorado. 27-30 Oct.
6. Bowen, G., Mallia, D.V., **Good, S.P.**, Lin, J. (2013) "Spatiotemporal water transport patterns in Hurricane Sandy from high-density stable isotope monitoring" *EGU General Assembly 2013*. EGU2013-6620. Vienna, Austria. 22-27 April.
5. **Good, S.P.**, Rodriguze-Iturbe, R., Caylor, K. K., (2012) "Stochastic modeling of 3D variability ecosystem structure and function" *AGU Fall Meeting 2012*, B52C-07. San Francisco, California. 3-7 Dec.
4. Caylor, K. K., **Good, S.P.**, Guan, K., (2012) "When change is more of the same: The increasing importance of hydrological variability in drylands (Invited)" *AGU Fall Meeting 2012*, H52A-06. San Francisco, California. 3-7 Dec.
3. Soderberg, K. **Good, S.P.**, Wang, L., Caylor, K. K. (2012) "Soil Water Vapor Isotopes: A Tool For Understanding Ecohydrological Processes" *The 22nd V. M. Goldschmidt Meeting*. Montreal, Canada. 25-29 June
2. Caylor, K. K., **Good, S.P.**, Soderberg, K., E., King, (2011) "Savanna Grassland Transpiration Fluxes After A Water Pulse Using Stable Isotope And Eddy Covariance Techniques" *AGU Fall Meeting 2011*, B23E-07. San Francisco, California. 5-9 Dec.
1. **Good, S.P.**, Soderberg, K., Wang, L., Caylor, K. K., (2011) "Uncertainty in estimates of the isotopic composition of water vapor fluxes: direct comparison of techniques using laser-based analyzers" *AGU Fall Meeting 2011*, B24B-02. San Francisco, California. 5-9 Dec.

Poster Presentations: (\*denotes student advised by S.P. Good)

43. Spencer, L.\*, Finkenbiner C. E.\*, **Good, S. P.** (2020) 'Statistical Downscaling of NEON Precipitation Water Isotope Datasets for Daily Time Series Generation.' *AGU Fall Meeting 2020*. H091-0009. Virtual Meeting. 1-17 Dec.
42. Li, B.\*, **Good, S. P.**, (2020) 'Information based uncertainty decomposition in SMAP modified Dual Channel Algorithm retrieve soil moisture.' *AGU Fall Meeting 2020*. H187-03. Virtual Meeting. 1-17 Dec.
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