#### **BIO-BIBLIOGRAPHY**

June 30, 2018

Kelly K. Caylor Professor II Department of Geography Bren School of Environmental Science & Management Director of Earth Research Institute

This update refers to the period since appointment to June 30, 2018

## Curriculum Vitae

#### Education

University of Virginia, Ph.D., Environmental Sciences, 2003 University of Virginia, B.A., with High Distinction, Environmental Sciences, 1996

## Area of Specialization

Ecohydrology, Isotope hydrology, Coupled natural-human systems, Environmental sensing.

## Previous Academic or Professional Appointments

2005 - 2007	Assistant Professor, Department of Geography, Indiana University
2007 -	Adjunct Faculty, Department of Geography, Indiana University
2007 - 2012	Assistant Professor, Dept. of Civil and Environmental Engineering, Princeton University
2013 - 2016	Affiliated Faculty, Dept. of Ecology and Evolutionary Biology, Princeton University
2013 - 2016	Associate Professor, Dept. of Civil and Environmental Engineering, Princeton University
2014 - 2016	Director, Environmental Studies Program, Princeton University
2016 -	Full Professor, Dept. of Geography, University of California, Santa Barbara
2016 -	Full Professor, Bren School of Environmental Science & Management, UCSB

## Professional Organizations

American Geophysical Union, Association of American Geographers, American Association for the Advancement of Science

PART I. RESEARCH
Cumulative List of Publications (or Creative Activities):

#	Year	Title and Authors	Publisher	Category
1.0	2000	Approaches for the estimation of primary productivity and vegetation structure in the Kalahari region , Dowty, P.R., Caylor, K.K., Shugart, H.H., Emanuel, W.R.	Ringrose, S., Chanda, R. (eds.).  Towards Sustainable Natural Resource Management in the Kalahari Region University of Botswana Press	Refereed Book Chapter
2.0	2002	The southern African Regional Science Initiative (SAFARI 2000): Wet season campaigns, Otter, LB, Scholes, RJ, Dowty, PR, Privette, JP, Caylor, K.K., Ringrose, S, Mukelabai, M, Frost, P, Hanan, N, Totolo, O, Veenendall, EM. [pdf]	South African Journal of Science 98(3-4): 131-137.	Refereed Article
3.0	2002	Determining land surface fractional cover from NDVI and rainfall time series for a sa- vanna ecosystem, Scanlon, TM, Albertson, JD, Caylor, K.K., Williams, CA. [pdf]	Remote Sensing of Environment 82(2-3): 376-388. doi:10.1016/s0034-4257(02)00054-8.	Refereed Article
4.0	2002	Trends in savanna structure and composition on an aridity gradient in the Kalahari, Scholes, RJ, Dowty, PR, Caylor, K.K., Parsons, DAB, Frost, PGH, Shugart, HH. [pdf]	Journal of Vegetation Science 13(3): 419-428. doi:10.1111/j.1654- 1103.2002.tb02066.x.	Refereed Article
5.0	2003	Tree spacing along the Kalahari transect in southern Africa, Caylor, K.K., Shugart, HH, Dowty, PR, Smith, TM. [pdf]	Journal of Arid Environments 54(2): 281-296. doi:10.1006/jare.2002.1090.	Refereed Article
6.0	2003	Release of gaseous and particulate carbonaceous compounds from biomass burning during the SAFARI 2000 dry season field campaign, Hely, C, Caylor, K.K., Alleaume, S, Swap, RJ, Shugart, HH. [pdf]	Journal of Geophysical Research - Atmospheres 108(13). doi:10.1029/2002jd002482.	Refereed Article
7.0	2003	Regional fuel load for two climatically contrasting years in southern Africa, Hely, C, Dowty, PR, Alleaume, S, Caylor, K.K., Korontzi, S, Swap, RJ, Shugart, HH, Justice, CO. [pdf]	Journal of Geophysical Research - Atmospheres 108(13). doi:10.1029/2002jd002341.	Refereed Article
8.0	2003	Soil moisture and plant stress dynamics along the Kalahari precipitation gradient, Porporato, A, Laio, F, Ridolfi, L, Caylor, K.K., Rodriguez-Iturbe, I. [pdf]	Journal of Geophysical Research - Atmospheres 108(D3). doi:10.1029/2002jd002448.	Refereed Article
9.0	2004	Coupling ecohydrological patterns and processes in semi-arid landscapes, Caylor, K.K., Rodriguez-Iturbe, I	Proceedings of the British Hydrological Society's International Conference on Hydrology: Science & Practice for the 21st Century . British Hydrological Society	Refereed Conference Proceed- ings
10.0	2004	Simulated productivity of heterogeneous patches in Southern African savanna land-scapes using a canopy productivity model, Caylor, K.K., Shugart, HH. [pdf]	Landscape Ecology 19(4): 401-415. doi:10.1023/B:LAND.0000030450.1	Refereed Article 1302.c2.

#	Year	Title and Authors	Publisher	Category
11.0	2004	Feasible optimality of vegetation patterns in river basins, Caylor, K.K., Scanlon, TM, Rodriguez-Iturbe, I. [pdf]	Geophysical Research Letters 31(13). doi:10.1029/2004GL020260.	Refereed Article
12.0	2004	Relationship between small-scale structural variability and simulated vegetation productivity across a regional moisture gradient in southern Africa, Caylor, K.K., Dowty, PR, Shugart, HH, Ringrose, S. [pdf]	Global Change Biology 10(3): 374-382. doi:10.1111/j.1365-2486.2003.00704.x.	Refereed Article
13.0	2004	Vegetation structure characteristics and relationships of Kalahari woodlands and savannas, Privette, JP, Tian, Y, Roberts, G, Scholes, RJ, Wang, Y, Caylor, K.K., Mukelabai, M. [pdf]	Global Change Biology 10(3): 281-291. doi:10.1111/j.1365-2486.2004.00740.x.	Refereed Article
14.0	2004	A simulation analysis of the detectability of understory burns in miombo woodlands, Pereira, JMC, Mota, B, Privette, JL, Caylor, K.K., Silva, JMN, Sa, ACL, Ni-Meister, W. [pdf]	Remote Sensing of Environment 93(3): 296-310. doi:10.1016/j.rse.2004.01.009.	Refereed Article
15.0	2005	Tree canopy effects on simulated water stress in southern African savannas, Caylor, K.K., Shugart, HH, Rodriguez-Iturbe, I. [pdf]	Ecosystems 8(1): 106-121. doi:10.1007/s10021-004-0027-9.	Refereed Article
16.0	2005	On the coupled geomorphological and ecohydrological organization of river basins, Caylor, K.K., Manfreda, S., Rodriguez-Iturbe, I. [pdf]	Advances in Water Resources 28(1): 69-86. doi:10.1016/j.advwatres.2004.08.013.	Refereed Article
17.0	2005	Dynamic response of grass cover to rainfall variability: Implications for the function and persistence of savanna ecosystems, Scanlon, TM, Caylor, K.K., Manfreda, Salvatore, Levin, Simon, Rodriguez-Iturbe, I. [pdf]	Advances in Water Resources 28(3): 291-302. doi:10.1016/j.advwatres.2004.10.014.	Refereed Article
18.0	2005	Determinants of woody cover in African savannas: A continental scale analysis, Sankaran, M, Hanan, N, Scholes, B, Ratnam, Jayashree, 24 others, Caylor, K.K [pdf]	Nature 438(7069): 846. doi:10.1038/nature04070.	Refereed Article
19.0	2006	Dynamic change in the woodland and savanna ecosystems of sub-tropical Africa., Shugart, H.H, Caylor, K.K., Hely, C., Swap, R.J., Dowty, P.R.	Laurence, W., Peres, C. (eds.). Emerging Threats to Tropical Forests . University of Chicago Press	Refereed Book Chapter
20.0	2006	Pattern and process in savanna ecosystems, Caylor, K.K, Shugart, H.H.	D'Odorico, P., Porporato, A. (eds.). Dryland Ecohydrology . Springer	Refereed Book Chapter
21.0	2006	On the ecohydrology of structurally heterogeneous semi-arid landscapes, Caylor, K.K., D'Odorico, P, Rodriguez-Iturbe, I. [pdf]	Water Resources Research 42(7). doi:10.1029/2005WR004683.	Refereed Article
22.0	2007	Ecohydrological optimization of patterns and processes in water-limited ecosystems., Caylor, K.K., Scanlon, T.M., Rodriguez-Iturbe, I.	Water and the Environment: Proceedings of the Workshop in the Vatican Academy of Sciences Vatican Academy of Sciences	Refereed Conference Proceed- ings

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23.0	2007	A temporal and spatially explicit Production Efficiency Model for fuel load allocation in southern Africa, Hely, C, Caylor, K.K., Dowty, PR, Alleaume, S, Swap, RJ, Shugart, HH, Justice, CO. [pdf]	Ecosystems 10(7): 1116. doi:10.1007/s10021-007-9082-3.	Refereed Article
24.0	2007	Spatial variation in vegetation structure coupled to plant available water at landscape scales in a Brazilian savanna, Ferira, J., Bustamente, M, Garcia-Montiel, DC, Caylor, K.K., Davidson, EA. [pdf]	Oecologia 153(2): 417-430. doi:10.1007/s00442-007-0747-6.	Refereed Article
25.0	2007	When is breeding for drought tolerance optimal when drought is random?, Sambatti, J, Caylor, K.K [pdf]	New Phytologist 175(1): 70-80. doi:10.1111/j.1469- 8137.2007.02067.x.	Refereed Article
26.0	2007	On soil moisture—vegetation feedbacks and their possible effects on the dynamics of dryland ecosystems, D'Odorico, P, Caylor, K.K., Okin, GS, Scanlon, TM. [pdf]	Journal of Geophysical Research - Biogeosciences 112(G4). doi:10.1029/2006jg000379.	Refereed Article
27.0	2007	Positive feedbacks promote power-law clustering of Kalahari vegetation, Scanlon, TM, Caylor, K.K., Levin, Simon, Rodriguez-Iturbe, I. [pdf]	Nature 449(7159): 209. doi:10.1038/nature06060.	Refereed Article
28.0	2008	Spatial patterns of soil nutrients in two southern African savannas, Okin, GS, Mladenov, N, Wang, L, Cassel, D, Caylor, K.K., Ringrose, S. [pdf]	JGR - Biogeosciences 113(G2). doi:10.1029/2007JG000584.	Refereed Article
29.0	2009	Decoupling structural and environmental determinants of sap velocity, Dragoni, D., Caylor, K.K.	Proceedings of the 7th International Workshop on Sap Flow, Seville, Spain . Acta Horticulture	Refereed Conference Proceed- ings
30.0	2009	On the calibration of continuous, high-precision $\delta 18O$ and $\delta 2H$ measurements using an off-axis integrated cavity output spectrometer , Wang, L, Caylor, K.K., Dragoni, D [pdf]	Rapid Communications in Mass Spectrometry 23(4): 530-536. doi:10.1002/rcm.3905.	Refereed Article
31.0	2009	Ecohydrological optimization of pattern and process in dryland ecosystems: A tradeoff-based hypothesis, Caylor, K.K., Scanlon, TM, Rodriguez-Iturbe, I. [pdf]	Water Resources Research 45(8). doi:10.1029/2008WR007230.	Refereed Article
32.0	2009	Decoupling structural and environmental determinants of sap velocity: Part II, Observational application, Dragoni, D, Caylor, K.K., Schmid, H. [pdf]	Agriculture & Forest Meteorology 149(3-4): 570-581. doi:10.1016/j.agrformet.2008.10.006.	Refereed Article
33.0	2009	Decoupling structural and environmental determinants of sap velocity: Part I, Methodological development, Caylor, K.K., Dragoni, D [pdf]	Agriculture & Forest Meteorology 149(3-4): 559-569. doi:10.1016/j.agrformet.2008.10.010.	Refereed Article
34.0	2009	Spatial heterogeneity and sources of soil carbon in Southern African savannas, Wang, L, Okin, G., Caylor, K.K., Macko, S. [pdf]	Geoderma 149(3-4): 402-408.	Refereed Article

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35.0	2010	Combined effect of soil moisture and nitrogen availability variations on grass productivity in African savannas, Wang, L, D'Odorico, P, Ries, L., Caylor, K.K., Macko, S. [pdf]	Plant & Soil 328(1-2): 95-108. doi:10.1007/s11104-009-0085-z.	Refereed Article
36.0	2010	Nutrient limitation on above-ground grass production in four savanna types along the Kalahari Transect, Ries-O'Halloran, L, Shugart, HH, Wang, L, Caylor, K.K., Ringrose, S. [pdf]	Journal of Arid Environments 74(2): 284-290. doi:10.1016/j.jaridenv.2009.08.012.	Refereed Article
37.0	2010	An ecohydrological approach to predict regional species distribution patterns in dryland ecosystems, Franz, T., Caylor, K.K., Rodriguez-Iturbe, I., Celia, M., Norbotton, J. [pdf]	Advances in Water Resources 33(2): 215-230. doi:10.1016/j.advwatres.2009.12.003	Refereed Article
38.0	2010	On the importance of accurate depiction of infiltration processes on model soil moisture and vegetation water stress, Manfreda, S., Scanlon, TM, Caylor, K.K [pdf]	Ecohydrology 3(2): 155-165. doi:10.1002/eco.79.	Refereed Article
39.0	2010	Partitioning evapotranspiration across gradients of woody plant cover: assessment of a stable isotope technique, Wang, L, Caylor, K.K., Villegas, J.C., Barron-Gafford, G, Breshears, DD, Huxman, T. [pdf]	Geophysical Research Letters 37(9). doi:10.1029/2010GL043228.	Refereed Article
40.0	2010	Herbivores and mutualistic ants interact to regulate tree photosynthesis, King, E.G., Caylor, K.K [pdf]	New Phytologist 187(1): 17-21. doi:10.1111/j.1469- 8137.2010.03286.x.	Refereed Article
41.0	2011	Quantifying Transient Soil Moisture Dynamics Using Multipoint Direct-Current Resistivity in Homogeneous Sand, Franz, T., Nolan, J, Nordbotten, J, Caylor, K.K., Slater, L [pdf]	Vadose Zone Journal 10(1): 286-298. doi:10.2136/vzj2010.0031.	Refereed Article
42.0	2011	Climatological determinants of woody cover in Africa, Good, S.P., Caylor, K.K [pdf]	Proceedings of the National Academy of Sciences 108(12): 4902-4907. doi:10.1073/pnas.1013100108.	Refereed Article
43.0	2011	Coupling vegetation organization patterns to soil resource heterogeneity in a central Kenyan dryland using geophysical imagery, Franz, T., King, E.G., Caylor, K.K., Robinson, DA. [pdf]	Water Resources Research 47(7). doi:10.1029/2010WR010127.	Refereed Article
44.0	2011	Metabolic principles of river basin organization, Rodriguez-Itrube, I, Caylor, K.K., Rinaldo, A [pdf]	Proceedings of the National Academy of Sciences 108(29): 11751-11755. doi:10.1073/pnas.1107561108.	Refereed Article
45.0	2011	Ecohydrology in Practice: Strengths, Conveniences, and Opportunities, King, E.G., Caylor, K.K [pdf]	Ecohydrology 4(4): 608-612. doi:10.1002/eco.248.	Refereed Article

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46.0	2012	An ecohydrological approach to predicting hillslope-scale vegetation patterns in dry- land ecosystems, Franz, T., Caylor, K.K., King, E.G., Nordbotten, J, Celia, MA, Rodriguez-Iturbe, I. [pdf]	Water Resources Research 48(1). doi:10.1029/2011WR010524.	Refereed Article
47.0	2012	Multi-sensor derivation of regional vegetation fractional cover in Africa, Guan, K., Wood, E.F., Caylor, K.K [pdf]	Remote Sensing of Environment 124: 653-665. doi:10.1016/j.rse.2012.06.005.	Refereed Article
48.0	2012	Characterizing ecohydrological and biogeo- chemical connectivity across multiple scales: a new conceptual framework, Wang, L., Zou, Chris, O'Donnell, F., Good, S., Franz, T., Miller, G.R., Caylor, K.K [pdf]	Ecohydrology 5(2): 221-233. doi:10.1002/eco.1187.	Refereed Article
49.0	2012	Ecohydrological interactions in a two-phase mosaic dryland: implications for regime shifts, resilience, and restoration, King, E.G., Franz, T., Caylor, K.K [pdf]	Ecohydrology 5(6): 733-745. doi:10.1002/eco.260.	Refereed Article
50.0	2012	Direct quantification of leaf transpiration isotopic composition, Wang, L, Good, S.P., Caylor, K.K [pdf]	Agriculture & Forest Meteorology 154: 127-135. doi:10.1016/j.agrformet.2011.10.018.	Refereed Article
51.0	2012	A model-based evaluation of woody plant encroachment impacts on coupled carbon and water cycles, O'Donnell, Caylor, K.K [pdf]	Journal of Geophysical Research - Biogeosciences 117(G2). doi:10.1029/2011JG001899.	Refereed Article
52.0	2012	Understanding the role of ecohydrological feedbacks in ecosystem-state change in drylands, Turnbull, L, Wilcox, B.P., Belnap, J, Ravi, S, others, Caylor, K.K [pdf]	Ecohydrology 5(2): 174-183. doi:10.1002/eco.265.	Refereed Article
53.0	2012	Evaluating ecohydrological theories of woody root distribution in the Kalahari, Bhattachan, A., Dintwe, K., Tathlego, M., O'Donnell, F., Caylor, K.K., et al [pdf]	PLoS One 7(3): e33996. doi:10.1371/journal.pone.0033996.	Refereed Article
54.0	2012	Uncertainties in the assessment of the isotopic composition of surface fluxes: A direct comparison of techniques using laser—based water vapor isotope analyzers, Good, S.P., Soderberg, K., Wang, L, Caylor, K.K [pdf]	Journal of Geophysical Research - Atmospheres 117(D5). doi:10.1029/2011JD017168.	Refereed Article
55.0	2012	Reframing hydrology education to solve coupled human and environmental problems, King, E.G., O'Donnell, F., Caylor, K.K [pdf]	Hydrology and Earth System Science 16(8): 2293-2404. doi:10.5194/hess-16-4023-2012.	Refereed Article
56.0	2012	Stable isotopes of water vapor in the vadose zone: A review of measurement and modeling techniques , Soderberg, K., Good, S.P., Wang, L, Caylor, K.K [pdf]	Vadose Zone Journal 11(3). doi:10.2136/vzj2011.0165.	Refereed Article
57.0	2012	Dryland ecohydrology and climate change: critical issues and technical advances , Wang, L, D'Odorico, P, Evans, J, Eldridge, T., McCabe, M, Caylor, K.K [pdf]	Hydrology and Earth System Science 16(8): 2585-2603. doi:10.5194/hess-16-2585-2012.	Refereed Article

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58.0	2013	Seasonal coupling of canopy structure and function in African tropical forests and its environmental controls, Guan, K., Wolf, A, Medvigy, David, Caylor, K.K., Pan, Ming, Wood, E.F [pdf]	Ecosphere 4(3): 1-21. doi:10.1890/ES12-00232.1.	Refereed Article
59.0	2013	Using atmospheric trajectories to model the isotopic composition of rainfall in central Kenya, Soderberg, K., Good, S.P., O'Connor, M, Wang, L, Ryan, K, Caylor, K.K [pdf]	Ecosphere 4(3): 1-18. doi:10.1890/ES12-00160.1.	Refereed Article
60.0	2013	Ecosystem-scale spatial heterogeneity of sta- ble isotopes of soil nitrogen in African savan- nas, Wang, L., Okin, GS, D'Odorico, P, Caylor, K.K., Macko, S. [pdf]	Landscape Ecology 28(4): 685-698. doi:10.1007/s10980-012-9776-6.	Refereed Article
61.0	2013	The effect of warming on grassland evapotranspiration partition using laser-based isotope monitoring techniques, Wang, L, Nui, S., Good, S.P., Soderberg, K, others, Caylor, K.K [pdf]	Geochemica et Cosmochimica Acta 111: 28-38. doi:10.1016/j.gca.2012.12.047.	Refereed Article
62.0	2013	Analytical expressions of variability in ecosystem structure and function obtained from three-dimensional stochastic vegetation modelling, Good, S.P., Rodriguez-Iturbe, I, Caylor, K.K [pdf]	Proceedings of the Royal Society, Series A 469(2155): 20130003. doi:10.1098/rspa.2013.0003.	Refereed Article
63.0	2013	Virtual water trade and development in Africa, Konar, M, Caylor, K.K [pdf]	Hydrology and Earth System Science 17(10): 3969-3982. doi:10.5194/hess-17-3969-2013.	Refereed Article
64.0	2013	On The Vulnerability of Water Limited Ecosystems to Climate Change, Manfreda, S., Caylor, K.K [pdf]	Water 5(2): 819-833. doi:10.3390/w5020819.	Refereed Article
65.0	2014	Multilevel governance of irrigation systems and adaptation to climate change in Kenya , Dell'Angelo, J, McCord, P.F., Baldwin, E., Cox, M.E., Gower, D., Caylor, K.K., Evans, T.P.	Bhaduri, A., Bogardi, J., Leentvaar, J., Marx, S. (eds.). The Global Water System in the Anthropocene . Springer International	Refereed Book Chapter
66.0	2014	Integrating short- and long-range processes into models: The emergence of pattern, Caylor, K.K, Okin, G.S., Turnbull, L., Wainwright, J., Wiegand, T., Franz, T.E., Parsons, A.J.	Mueller, E.N., Wainwright, J., Parsons, A.J., Turnbull, L. (eds.). Patterns of Land Degradation in Drylands. Springer International	Refereed Book Chapter
67.0	2014	An analysis of structure: biomass structure relationships for characteristic species of the western Kalahari, Botswana, Meyer, T, D'Odorico, P, Okin, GS, Shugart, HH, Caylor, K.K., O'Donnell FC. [pdf]	African Journal of Ecology 52(1): 20-29. doi:10.1111/aje.12086.	Refereed Article
68.0	2014	$\delta 2H$ Isotopic flux partitioning of evapotranspiration over a grass field following a water pulse and subsequent dry down, Good, S.P., Soderberg, K., Guan K., King, E.G., Scanlon, TM, Caylor, K.K [pdf]	Water Resources Research 50(2): 1410-1432. doi:10.1002/2013WR014333.	Refereed Article

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69.0	2014	Modelling vegetation patterns in semiarid environments, Manfreda, S., Pizzolla, T., Caylor, K.K	Procedia Environmental Sciences 19: 168-177. doi:10.1016/j.proenv.2013.06.019.	Refereed Article
70.0	2014	Deriving vegetation phenological time and trajectory information over Africa using SE-VIRI daily LAI, Guan, K., Medvigy, D., Wood, E.F., Caylor, K.K., Li, S., Jeong, S [pdf]	IEEE Transactions on Geoscience and Remote Sensing 52(2): 1113-1130. doi:10.1109/TGRS.2013.2247611.	Refereed Article
71.0	2014	Continental-scale impacts of intra-seasonal rainfall variability on simulated ecosystem responses in Africa, Guan, K., Good, S.P., Caylor, K.K., Sato, Hisashui, Li, Haibin, Wood, E.F [pdf]	Biogeosciences 11(23): 6939-6954. doi:10.5194/bg-11-6939-2014.	Refereed Article
72.0	2014	Changing water availability during the African maize-growing season, 1979-2010, Estes, L, Chaney, N., Herrera-Estrada, J., Sheffield, J, Caylor, K.K., Wood, E.F [pdf]	Environmental Research Letters 9(7): 75005. doi:10.1088/1748-9326/9/7/075005.	Refereed Article
73.0	2014	Global synthesis of vegetation control on evapotranspiration partitioning, Wang, L., Good, S.P., Caylor, K.K., '. [pdf]	Geophysical Research Letters 41(19): 6753-6757. doi:10.1002/2014GL061439.	Refereed Article
74.0	2014	Terrestrial hydrological controls on land surface phenology of African savannas and woodlands, Guan, K., Wood, E.F, Medvigy, D., Wolf, A., Kimball, J., Pan, M., Caylor, K.K., Sheffield, J. [pdf]	Journal of Geophysical Research - Biogeosciences 119(8): 1652-1669. doi:10.1002/2013JG002572.	Refereed Article
75.0	2015	Photosynthetic seasonality of global tropical forests constrained by hydroclimate, Guan, K., Pan, M., Li, H., Wolf, A, Medvigy, D, Caylor, K.K., Sheffield, J, Wood, EF, Mahli, Y, Liang, M., others. [pdf]	Nature Geoscience 8(4): 284. doi:10.1038/ngeo2382.	Refereed Article
76.0	2015	Termite mounds can increase the robustness of dryland ecosystems to climatic change, Bonachela, J.A., Pringle, RM, Shefer, E, Coverdale, TC, Guyon, JA, Caylor, K.K., Levin, SA, Tarnita, CE. [pdf]	Science 347 6222): 651-655. doi:10.1126/science.1261487.	Refereed Article
77.0	2015	Carbon stable isotopes suggest that hippopotamus-vectored nutrients subsidize aquatic consumers in an East African river, McCauley, D.J., Dawson, T, Power, ME, Finlay, JC, Ogada, M, Gower, D., Caylor, K.K [pdf]	Ecosphere 6(4): 1-11. doi:10.1890/ES14-00514.1.	Refereed Article
78.0	2015	A quantitative description of the interspecies diversity of belowground structure in savanna woody plants, O'Donnell, F., Caylor, K.K., Bhattachan, A, Dintwe, Kebonye, D'Odorico, P, Okin, G. [pdf]	Ecosphere 6(9): 1-15. doi:10.1890/ES14-00310.1.	Refereed Article
79.0	2015	Dynamic interactions of ecohydrological and biogeochemical processes in water-limited systems, Wang, L., Manzoni, S., Ravi, S., Riveros-Iregui, D., Caylor, K.K [pdf]	Ecosphere 6(8): 1-27. doi:10.1890/ES15-00122.1.	Refereed Article

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80.0	2015	Warmer and wetter soil stimulates assimilation more than respiration in rainfed agricultural ecosystem on the China Loess Plateau: the role of partially plastic film mulching tillage, Gong, D., Hao, W., Mei, X., Gao, X., Caylor, K.K [pdf]	PLoS One 10(8): e0136578. doi:10.1371/journal.pone.0136578.	Refereed Article
81.0	2015	Soil organic C and total N pools in the Kalahari: potential impacts of climate change on C sequestration in savannas, Dintwe, K., Okin, GS, D'Odorico, P, Hrast, T, Mladenov, N., Handorean, A., Bhattachan, A., Caylor, K.K [pdf]	Plant & Soil 396(1-2): 27-44. doi:10.1007/s11104-014-2292-5.	Refereed Article
82.0	2016	Global Patterns of the Contributions of Storm Frequency, Intensity, and Seasonality to Interannual Variability of Precipitation, Good, S.P., Guan, K., Caylor, K.K [pdf]	Journal of Climate 29(1): 3-15. doi:10.1175/JCLI-D-14-00653.1.	Refereed Article
83.0	2016	Improved removal of volatile organic compounds for laser-based spectroscopy of water isotopes., Chang, E., Wolf, A., Gerlein-Safdi, C., Caylor, K.K [pdf]	Rapid Communications in Mass Spectrometry 30(6): 784-790. doi:doi.org/10.1002/rcm.7497.	Refereed Article
84.0	2016	Community Water Governance on Mount Kenya: An Assessment Based on Ostrom's Design Principles of Natural Resource Man- agement, Dell'Angelo, J, McCord, P, Gower, D., Carpenter, S., Caylor, K., Evans, T.P [pdf]	Mountain Research & Development $36(1)$ : $102-115$ . doi: $10.1659/MRD$ -JOURNAL-D- $15-00040.1$ .	Refereed Article
85.0	2016	A platform for crowdsourcing the creation of representative, accurate landcover maps, Estes, L, McRitchie, D., Choi, J., Debats, S., Evans, T., Guthe, W., Luo, D., Ragazzo, G., Zempleni, R., Caylor, K.K [pdf]	Environmental Modelling & Software 80: 41-53. doi:10.1016/j.envsoft.2016.01.011.	Refereed Article
86.0	2016	A generalized computer vision approach to mapping crop fields in heterogeneous agri- cultural landscapes, Debats, S., Luo, D., Estes, L.D., Fuchs, T., Caylor, K.K [pdf]	Remote Sensing of Environment 179: 210-221. doi:10.1016/j.rse.2016.03.010.	Refereed Article
87.0	2016	Explaining inter-annual variability of gross primary productivity from plant phenology and physiology, Zhou, S, Zhang, Y., Caylor, K.K., Luo, Y., Xiao, X., Ciais, P., Huang, Y., Wang, G [pdf]	Agricultural & Forest Meteorology 226: 246-256. doi:10.1016/j.agrformet.2016.06.010.	Refereed Article
88.0	2016	Reconciling agriculture, carbon and biodiversity in a savanna transformation frontier, Estes, L., Searchinger, T., Spiegel, M., Tian, D., Sichinga, S., Mwale, M., Kehoe, L., Kuemmerle, T., Berven, A., Chaney, N., Sheffield, J., Wood, E.F., Caylor, K.K [pdf]	Philosophical Transactions of the Royal Society B - Biological Sciences 371(1703): 20150316. doi:10.1098/rstb.2015.0316.	Refereed Article
89.0	2016	Modeling ecohydrological dynamics of small-holder strategies for food production in dryland agricultural systems, Gower, D. B., Dell'Angelo, J., McCord, P.F., Caylor, K.K., Evans, T.P [pdf]	Environmental Research Letters 11(11): 115005. doi:10.1088/1748-9326/11/11/115005.	Refereed Article

#	Year	Title and Authors	Publisher	Category
90.0	2017	An Ecohydrological Framework to Explain Shifts in Vegetation Organization Across Climatological Gradients, Manfreda, S., Cay- lor, K.K., Good, S.P [pdf]	Ecohydrology 10(3): e1809. doi: $10.1002/\text{eco.}1809$ .	Refereed Article
91.0	2017	Dominant role of plant physiology in trend and variability of gross primary productivity in North America, Zhou, S, Zhang, Y., Ciais, P, Xiao, X.M., Luo, Y.Q., Caylor, K.K., Huang, Y., Wang, G [pdf]	Scientific Reports 7: 41366. doi:10.1038/srep41366.	Refereed Article
92.0	2017	Comparison of multi-level water use efficiency between plastic film partially mulched and non-mulched croplands at eastern Loess Plateau of China, Gong, D., Mei, X., Hao, W., Caylor, K.K [pdf]	Agricultural Water Management 179: 215-226. doi:10.1016/j.agwat.2016.06.006.	Refereed Article
93.0	2017	Household-level heterogeneity of water resources within common-pool resource systems, McCord, P., Dell'Angelo, J., Gower, D., Caylor, K.K., Evans, T [pdf]	Ecology & Society 22(1). doi:10.5751/ES-09156-220148.	Refereed Article
94.0	2017	Comparison of ET partitioning and crop coefficients between partial plastic mulched and non-mulched maize fields, Gong, D., Mei, X., Hao, W., Wang, H., Caylor, K.K [pdf]	Agricultural Water Management 181: 23-34. doi:10.1016/j.agwat.2016.11.016.	Refereed Article
95.0	2017	Triple oxygen isotope composition of leaf waters in Mpala, central Kenya, Li, S., Levin, N., Soderberg, K, Dennis, K.J., Caylor, K.K [pdf]	Earth & Planetary Science Letters 468: 38-50. doi:10.1016/j.epsl.2017.02.015.	Refereed Article
96.0	2017	Validation of SMAP surface soil moisture products with core validation sites, Collian- der, A, Jackson, TJ, Bindish, R., others, including, Caylor, K.K [pdf]	Remote Sensing of Environment 191: 215-231. doi:10.1016/j.rse.2017.01.021.	Refereed Article
97.0	2017	Leaf water 18O and 2H maps show directional enrichment discrepancy in Colocasia esculenta, Gerlein-Safdi, C., Gauthier, P., Sinkler, C., Caylor, K.K [pdf]	Plant, Cell, & Environment 40(10): 2095-2108. doi:10.1111/pce.13002.	Refereed Article
98.0	2017	Calibration of a parsimonious distributed ecohydrological daily model in a data-scarce basin using exclusively the spatio-temporal variation of NDVI, Ruiz-Perez, G., Kock, J., Manfreda, Salvatore, Caylor, K.K., Frances, F [pdf]	Hydrology and Earth System Science 21(12): 6235-6251. doi:10.5194/hess-21-6235-2017.	Refereed Article
99.0	2018	Simulated sensitivity of African terrestrial ecosystem photosynthesis to rainfall frequency, intensity, and rainy season length, Guan, K., Good, S.P., Caylor, K.K., Medvigy, D., Pan, Ming, Wood, E.F., Sato, H., Biasutti, M., Chen, M., Ahlstrom, A., Xiangtao, X [pdf]	Environmental Research Letters 13(2): 25013. doi:10.1088/1748-9326/aa9f30.	Refereed Article

#	Year	Title and Authors	Publisher	Category
100.0	2018	Measurements and Observations in the XXI century (MOXXI): innovation and multidisciplinarity to sense the hydrological cycle, Flavia, T., Selker, J., van de Giesen, N., Abrate, T., Uijlenhoet, R., Porfiri, M., Manfreda, S., Caylor, K.K., 22 others. [pdf]	Hydrological Sciences Journal 63(2): 169-196. doi:10.1080/02626667.2017.1420191.	Refereed Article
101.0	2018	A large—area, spatially continuous assessment of land cover map error and its impact on downstream analyses, Estes, L, Chen, P., Debats, S., Evans, T., Ferreira, S., Kuemmerle, T., Ragazzo, G., Sheffield, J, Wolf, A., Wood, E.F., Caylor, K.K [pdf]	Global Change Biology 24(1): 322-337. doi:10.1111/gcb.13904.	Refereed Article
102.0	2018	The Spatial and Temporal Domains of Modern Ecology, Estes, L, Elsen, P., Truer, T., Ahmed, L., Caylor, K.K, Chang, J., Choi, J., Ellis, E. [pdf]	Nature Ecology & Evolution 2(5): 819. doi:10.1038/s41559-018-0524-4.	Refereed Article
103.0	2018	On the Use of Unmanned Aerial Systems for Environmental Monitoring, Manfreda, S., McCabe, M, Miller, P., Lucas, R., Madrigal, V.P., Mallinis, G., Ben Dor, E., Helman, D., Estes, L., Ciraolo, G., 13 others including Caylor, K [pdf]	Remote Sensing 10(4): 641. doi:10.3390/rs10040641.	Refereed Article
104.0	2018	Dew-induced transpiration suppression impacts the water and isotope balances of Colocasialeave, Gerlain-Safdi, C., Gauthier, P.G., Caylor, K.K [pdf]	Oecologia 187(4): 1041-1051. doi:10.1007/s00442-018-4199-y.	Refereed Article
105.0	2018	Dew deposition suppresses transpiration and carbon uptake in leaves, Gerlain-Safdi, C., Koohafkan, MC, Chung, M., Thompson, S, Rock- well, FE, Caylor, K.K [pdf]	Agriculture & Forest Meteorology 259: 305-316. doi:10.1016/j.agrformet.2018.05.015.	Refereed Article
106.0	2018	Comparing empirical and survey-based yield forecasts in a dryland agro-ecosystem, Zhao, Y., Vergopolan, N., Baylis, K, Blekking, J., Caylor, K.K., Evans, T.P., Giroux, S., Sheffield, J, Estes, L [pdf]	Agricultural & Forest Meteorology 259: 305-316. doi:10.1016/j.agrformet.2018.06.024.	Refereed Article
107.0	2019	Biophysical effects on soil crack morphology in a faunally active dryland vertisol, DeCarlo, K., Caylor, K.K [pdf]	Geoderma 334: 134-145. doi:10.1016/j.geoderma.2018.07.042.	Refereed Article
108.0	2018	A global database of water vapor isotopes measured with high temporal resolution infrared laser spectroscopy, Wei, Zhongwang, Lee, Xuhui, Aemisegger, Franziska, Benetti, Marion, Berkelhammer, Max, Casado, Mathieu, Caylor, K.K., Christner, E., Dryoff, C., Garcia, O.E., 16 others. [pdf]	Scientific Data . doi:10.1038/sdata.2018.302.	Refereed Article
109.0	2019	Cognitive biases about climate variability in smallholder farming systems in Zambia, Waldman, K, Vergopolan, N., Estes, L.D., Attari, S.Z., Sheffiled, J., Caylor, K.K., Evans, T.P. [pdf]	Weather, Climate & Society . doi:10.1175/WCAS-D-18-0050.1.	Refereed Article

#	Year	Title and Authors	Publisher	Category
110.0	2019	A high-frequency mobile phone data collection approach for research in social-environmental systems: Applications in climate variability and food security in sub-Saharan Africa., Giroux, S., Caylor, K.K., Kouper, I., Estes, L., Schumacher, J., Waldman, K., Evans, T	Environmental Modelling & Software . doi:10.1016/j.envsoft.2019.05.011.	Refereed Article
111.0	2019	The salience of climate change in farmer decision making within smallholder semi-arid agroecosystems, Waldman, K, Attari, S, Gower, D, Giroux, S, Evans, T, Caylor, K.K	Climatic Change .	Refereed Article
112.0	2019	Variability in urban population distributions across Africa, Tuholske, C., Caylor, K.K., Evans, T., Avery, R	Environmental Research Letters . doi:10.1088/1748-9326/ab2432.	Refereed Article
hline				
hline		Since Appointment:		

#### Works In Press:

# Year Title and Authors Publisher	Category
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#### Work Submitted:

None Provided.

# PART II. TEACHING (50% Geography Dept. workload; 50% Bren School workload. Teaching release throughout the review period.)

# Workload Descriptions

- 1. Geography Department: Geography department teaching workload for full-time ladder faculty is 3 Instructional Workload Courses (IWC) per year. 50% workload is 1.5 IWC per year.
- 2. Bren School: The official teaching workload in the Bren School for full-time ladder faculty members is 3.5 Instructional Workload Courses (IWC) per academic year. Full-time faculty are expected to be in residence during the academic year and teach at least two out of three quarters unless they are on sabbatical or approved leave. Each quarter on sabbatical counts as 1.17 IWC for full-time faculty. The teaching workload for faculty with partial appointments is the equivalent fraction of 3.5 and the teaching workload is negotiated with the dean.

Every full-time faculty member will advise or co-advise a Master's Group Project (ESM 401 series) or Eco-E Project (ESM 402 series) equivalent to 1 IWC. Faculty advisors are expected to meet with master's groups weekly during the academic year.

Course Equivalencies:

- ESM 401A/ESM 402A: 4 units = 0.29 IWC
- $\bullet~{\rm ESM~401B/ESM~402B:~4~units}=0.29~{\rm IWC}$
- $\bullet~$  ESM 401C/ESM 402C: 4 units = 0.29 IWC
- $\bullet~{\rm ESM~401D/ESM~402D};$ 2 units = 0.13 IWC

Every full-time faculty member will teach and/or co-teach core courses, elective courses and seminars in the MESM and PhD programs equivalent to at least (a) 2.5 IWC in addition to advising a project or (b) 3.5 IWC if not advising a project. Course Equivalencies:

- MESM core and elective courses: 4 units = 1 IWC; 2 units = 0.5 IWC.
- $\bullet$  Co-taught 4-unit MESM core course = 0.6 IWC per instructor.
- Co-taught 4-unit MESM elective course = 0.5 IWC per instructor.
- MESM lab course: 4 or 5 units = 1 IWC.
- Teaching an additional section (e.g., ESM 263) = 0.67 IWC.
- PhD core courses: ESM 510 (1 unit) = 0.25 IWC; ESM 512 (2 units) = 0.5 IWC; ESM 514 (4 units) = co-taught at 1 IWC per instructor.
- PhD seminar course: 2 units = 0.5 IWC; 4 units = 1 IWC.
- 3. The ERI directorship is for a 5-year term with annual reappointment. The appointment comes with a 50% teaching load reduction. Therefore, my four-year annual teaching load in Geography is 1-0-1-1 (an average of 0.75 IWC per year), and in Bren it is advising one group project per year, and co-teaching the MESM core course ESM 203 starting in Fall 2018 (a total of 1.6 IWC per year.

## Catalog Courses:

Qtr	Course	Class Type	Units	Hrs/Wk	Enrollment	ESCI/Written Evals Avail.
F16	Individual Study - PhD Exam	Tut		2	1.0	No/No
W17	Individual Study - PhD Exam	$\operatorname{Tut}$		2	1.0	No/No
S17	Biogeography	Lec	4.0	3	12.0	Yes/Yes
S17	Biogoegraphy	Lec	4.0	3	17.0	Yes/Yes
S17	Group Project - A	Lec	4.0	1	4.0	No/No
S17	Individual Study - PhD Exam	$\operatorname{Tut}$		2	2.0	No/No
S17	Intro to Geographical Research	Tut	2.0	1	1.0	No/No
F17	Group Project - B	Dis	4.0	1	4.0	No/No
F17	Individual Study - PhD Exam	$\operatorname{Tut}$		2	2.0	No/No
W18	Group Project - C	Dis	4.0	1	4.0	No/No
W18	Individual Study - PhD Exam	$\operatorname{Tut}$		2	1.0	No/No
W18	PhD Dissertation	Tut		2	1.0	No/No
S18	Group Project - A	Lec	4.0	1	5.0	No/No
S18	Group Project - D	Dis	2.0	1	4.0	No/No
S18	Individual Study - PhD Exam	$\operatorname{Tut}$		2	1.0	No/No
S18	Intro to Geographical Research	Tut	2.0	1	1.0	No/No
S18	PhD Dissertation	Tut		2	1.0	No/No
F18	Earth System Science	Lec	4.0	1	nan	Yes/Yes
S19	Water, Energy, and Ecosystems	Lec	4.0	1	nan	Yes/Yes

## **MESM Projects Advised**

Hawaii'

Year	Project Title	Э	Students	Q3	Q4	Q5	Q7	
2019 -	Green	in-						
2020	frastructure							
	for coral	reef						
	protection	in						

Year	Project Title	Students	Q3	Q4	Q5	Q7
2018 -	Determining	Brad Anderson,				
2019	conservation					
	research op-					
	portunities at					
	the TNC Point					
	Conception					
	Dangermond					
	Preserve					
2017 -	Determining	Sravan Chalasani	67%	67% Excel-	67% Always,	66% Excel-
2018	conservation	, Karina Herrera,	Strongly	lent, $33\%$	33% Usually	lent, $33\%$
	research op-	John Sisser, Zach	Agree, 33%	Very Good		Satisfactory
	portunities at	Voss	Somewhat			
	the TNC Point		Agree			
	Conception					
	Dangermond					
	Preserve					

# Undergraduate Projects Directed:

Student	Project	Chair/	Yr Deg
		Member	Compl.

None.

# Graduate Degree Committees, MA/MS Committees:

Student Tear Institution Charly Member Current Employment	Student	Year	Instituion	Chair/Member Current Employment
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None.

# Graduate Degree Committees, Ph.D. Committees:

Student	Year	Instituion	Chair/Member	r Current Employment
Cynthia Gerlein-Safdi	2017	Princeton University, Civil &	Chair	Postdoctoral Researcher -
		Environmental Engineering		U. of Michigan
Stephanie Debats	2017	Princeton University, Civil &	Chair	Autonomy Engineer -
		Environmental Engineering		Uber
Cascade Tuholske	In	UCSB, Geography	Chair	-
	Progress			
Drew Gower	$\operatorname{In}$	Princeton University, Civil &	Chair	_
	Progress	Environmental Engineering		
Keita DeCarlo	In	Princeton University, Civil &	Chair	_
	Progress	Environmental Engineering		
Natasha Krell	In	UCSB, Geography	Chair	-
	Progress			
Ryan Avery	$\operatorname{In}$	UCSB, Geography	Chair	_
	Progress			
Chris Heckman	In	UCSB, Bren	Committee	-
	Progress		Member	

Student	Year	Instituion	Chair/Member Current Employment
Elizabeth Forbes	In	UCSB, Ecology, Evolution,	Committee -
	Progress	and Marine Ecology	Member
Fernanda Riberio	$\operatorname{In}$	UCSB, Geography	Committee -
	Progress		Member
Mike Johnson	In	UCSB, Geography	Committee -
	Progress		Member
Sara Lafia	In	UCSB, Geography	Committee -
	Progress		Member
Susan Meerdink	$\operatorname{In}$	UCSB, Geography	Committee -
	Progress		Member

# Postdoctoral Scholars Supervised:

Postdoctoral Researcher	Years	Affiliation	Current Employment
Marc Mayes	2016 -	UCSB, Geography	-
Farai Kaseke	2018 -	UCSB, Geography	-

# Other Teaching Contributions:

None

# PART III. PROFESSIONAL ACTIVITIES

## Lectures and Seminars Presented:

Month/Year	Title	Meeting/Place
8/2018	Session on "Vegetation dynamics and ecosystem resilience under global climate change", Ecological Society of America Annual Meeting, New Orleans, LA	
8/2018	${\bf Coupled\ Natural-Human\ Systems\ Short\ Course,\ University\ of\ California,\ Irvine}$	
8/2019	44th New Phytologist Symposium, Accra, Ghana	

## Conference Posters and Presentations:

Month/Year	Title	Meeting/Place
10/2018	Regional migration, global climate change, and the future of irrigation on Kenyan farms. Lopus, S. Waldman, K., Guido, Z., Caylor, K., Evans, T. (Invited)	International Conference on Migration, Environment and Climate: What risk inequali- ties?
12/2018	Fusing Remote Sensing and Demography to Assess which Sub-Saharan African Cities Are Growing the Fastest. Tuholske, C., Caylor, K.K. (Invited)	American Geophysical Union Fall Meeting

Month/Year	Title	Meeting/Place
12/2018	A Convolutional Neural Network Approach to Segmenting Smallholder Agriculture. Ryan Barry Avery, Kelly K Caylor, Lyndon D Estes, Ronald Eastman, Su Ye, Lei Song, Kaixi Zhang, Sitian Xiong, Dennis McRitchie and Tammy Woodard (Invited)	American Geophysical Union Fall Meeting
12/2018	Quantifying the Effect of Farmer Management Decisions on Maize Yield in Zambia. Michael Cecil, Katherine Baylis, Jordan Blekking, Kelly K Caylor, Tom P Evans, Megan Konar, Justin Sheffield, Noemi Vergopolan, Kurt Waldman, Yi Zhao, and Lyndon D Estes (Invited)	American Geophysical Union Fall Meeting
12/2018	Using active learning to quantify how training data errors impact classification accuracy over smallholder-dominated agricultural systems. Lyndon D Estes, Stephanie R Debats, Dennis McRitchie, Ronald Eastman, Lei Song, Tammy Woodard, Sitian Xiong, Su Ye, Kaixi Zhang, Ryan Barry Avery, and Kelly K Caylor (Invited)	American Geophysical Union Fall Meeting
12/2018	Reimagining high-resolution ecosystem monitoring with low-cost autonomous sensing. Kelly K Caylor, Elizabeth Forbes, Grace Lewin, Mark Hirsh (Invited)	American Geophysical Union Fall Meeting
12/2018	Seasonal and diurnal drone and ground-based thermal, multispectral and hyperspectral imaging to quantify responses of California oak woodland productivity and evapotranspiration to extreme climate conditions. Marc Mayes, Kelly Caylor (Invited)	American Geophysical Union Fall Meeting
4/2019	Integrating humans and machines to map smallholder-dominated agricultural frontiers. Estes, Lyndon Despard; Song, Lei; Ye, Su; Avery, Ryan; McRitchie, Dennis; Debats, Stephanie; Xiong, Sitian; Eastman, Ron; Woodard, Tammy; Caylor, Kelly (Invited)	4th Open Science Meeting of the Global Land Programme
4/2019	. (Invited)	

# Grants and Contracts:

Year	Source	Title	Role	Amount	Personal	New/Cont.
					Share	

# Reviewing and Refereeing Activity:

Year	Activity	Journal/Agency
	•	7 9 0
2018	Promotion case reviewer	SUNY-ESF
2018	Promotion case reviewer	University of Washington
2018	Referee	Agricultural and Forest Meteorology
2018	Referee	Biology Letters
2018	Referee	Communications Biology
2018	Referee	Journal of Water Resources Planning & Management
2018	Referee	Landscape Ecology
2018	Referee	Nature Climate Change (3)

Year	Activity	Journal/Agency
2018	Referee	Nature Communications
2018	Referee	Progress in Physical Geography
2018	Referee	Water Resources Research
2018	Tenure case reviewer	University of Toronto
2019	Referee	Water Resources Research

# Special Appointments:

2016-present, Editorial Board, Environmental Research Letters, Reviews

# ${\bf Other\ Professional\ Contributions:}$

# PART IV. SERVICE

# University Service:

Year	Role	Service
2018 - 2019	Chair	Earth Research Institute, Personnel Committee
2018 - 2019	Director	Earth Research Institute, University of California, Santa Barbara
2018 - 2019	Ex-Officio Member	Earth Research Institute Advisory Committee, UCSB
2018 - 2019	Member	Campus Data Science Initiative Working Group
2018 - 2019	Member	North Campus Open Space Administrative Advisory Group
2018 - 2019	Member	Data Science Curriculum Committee
2018 - 2019	Participating Faculty	Interdepartmental PhD Emphasis in Environment and Society
2019 - 2020	Chair	Earth Research Institute, Personnel Committee
2019 - 2020	Ex-Officio Member	Earth Research Institute Advisory Committee, UCSB
2019 - 2020	Member	Dangermond Endowed Chair Search Committee, Office of Research
2019 - 2020	Member	North Campus Open Space Administrative Advisory Group
2019 - 2020	Member	Campus Data Science Initiative Working Group
2019 - 2020	Member	Data Science Curriculum Committee
2019 - 2020	Participating Faculty	Interdepartmental PhD Emphasis in Environment and Society

# Department Service:

Year	Role	Service
2018 - 2019	Chair	Space Committee, Department of Geography, University of California, Santa
		Barbara
2018 - 2019	Member	Graduate Admission Committee, Department of Geography, University of Cal-
		ifornia, Santa Barbara
2018 - 2019	Member	Vegetation Data Science Faculty Search Committee, Department of Geography,
		UCSB
2019 - 2020	Chair	Space Committee, Department of Geography, University of California, Santa
		Barbara
2019 - 2020	Member	Group Project Committee, Bren School of Environmental Science and Man-
		agement, University of California, Santa Barbara
2019 - 2020	Member	Dangermond Endowed Chair Search Committee, Department of Geography
2019 - 2020	Member	Graduate Admission Committee, Department of Geography, University of Cal-
		ifornia, Santa Barbara

## Public Service:

Year	Role	Service
2018	Co-Convenor	AGU Fall Meeting, Session on "Indicators of Plant Water Availability and
		Stress in Drought-Prone Forests at a Range of Spatial and Temporal Scales"