University of California, Santa Barbara

June 30, 2021

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

This update refers to the period July 1, 2018 to June 30, 2021

Curriculum Vitae

Education

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

Areas 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	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	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	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	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	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	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	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	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	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

#	Year	Title and Authors	Publisher	Category
10	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.0000030450.11	Refereed Article 302.c2.
11	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	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	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	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	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	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	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	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	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	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

#	Year	Title and Authors	Publisher	Category
21	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	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
23	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	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	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	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	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	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	2009	Decoupling structural and environmental determinants of sap velocity, $\operatorname{Dragoni}$, $\operatorname{D.}$, Caylor , $\operatorname{K.K.}$	Proceedings of the 7th International Workshop on Sap Flow, Seville, Spain . Acta Horticulture	Refereed Conference Proceed- ings
30	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	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

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32	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	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	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
35	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	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	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	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	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	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	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	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

#	Year	Title and Authors	Publisher	Category
43	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	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	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
46	2012	An ecohydrological approach to predicting hillslope-scale vegetation patterns in dryland 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	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	2012	Characterizing ecohydrological and biogeochemical 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	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	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	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	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	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

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54	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	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	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	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
58	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	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	2013	Ecosystem-scale spatial heterogeneity of stable isotopes of soil nitrogen in African savannas, 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	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	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	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	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

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65	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	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	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	2014	δ 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
69	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	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	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	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	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	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

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75	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	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	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	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	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
80	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	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	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	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

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84	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	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	2016	A generalized computer vision approach to mapping crop fields in heterogeneous agricultural 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	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	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	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
90	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/eco.1809 .	Refereed Article
91	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	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

#	Year	Title and Authors	Publisher	Category
93	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	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	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	2017	Validation of SMAP surface soil moisture products with core validation sites, Colliander, 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	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	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	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
100	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	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

# Year	Title and Authors	Publisher	Category
102 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 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 2018	Dew-induced transpiration suppression impacts the water and isotope balances of Colocasia leaves, 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 2018	Dew deposition suppresses transpiration and carbon uptake in leaves, Gerlain-Safdi, C., Koohafkan, MC, Chung, M., Thompson, S, Rockwell, FE, Caylor, K.K. [pdf]	Agriculture & Forest Meteorology 259: 305-316. doi:10.1016/j.agrformet.2018.05.015.	Refereed Article
	Since Prior Review:		
106 2018 (B- 1)	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 262: 147-156. doi:10.1016/j.agrformet.2018.06.024.	Refereed Article
107 2019 (B- 2)	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 2019	A global database of water vapor isotopes measured with high temporal resolution infrared laser spectroscopy, Wei, Z., Lee, X., Aemisegger, F., Benetti, M., Berkelhammer, M., Casado, M., Caylor, K.K., Christner, E., Dryoff, C., Garcia, O.E., Gonzalez, Y, Griffis, T., Kurita, N., Liang, J., Liang, MC., Lin, G., Noone, D., Gribanov, K., Munksgaard, N.C., Schneider, M., Ritter, F., Steen-Larsen, H.C, Vallet-Coulomb, C., Wen, X., Wright, J.S., Xiao, W., Yoshimura, K. [pdf]	Scientific Data 6: 180302. doi:10.1038/sdata.2018.302.	Refereed Article

Cumulative List of Publications continued on next page

# Year	Title and Authors	Publisher	Category
109 2019	Cognitive biases about climate variability in smallholder farming systems in Zambia, Waldman, K, Vergopolan, N., Attari, S.Z., Sheffiled, J., Estes, L.D., Caylor, K.K., Evans, T.P [pdf]	Weather, Climate & Society 11: 369-383. doi:10.1175/WCAS-D-18-0050.1.	Refereed Article
110 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., Kouper, I., Estes, L., Schumacher, J., Waldman, K., Greenshields, J.T., Dickinson, J.T., Caylor, K.K., Evans, T. [pdf]	Environmental Modelling & Software 119: 57-69. doi:10.1016/j.envsoft.2019.05.011.	Refereed Article
111 2019	The salience of climate change in farmer decision making within smallholder semi-arid agroecosystems, Waldman, K, Attari, S, Gower, D, Giroux, S, Caylor, K.K., Evans, T.P. [pdf]	Climatic Change 156: 527-543. doi:10.1007/s10584-019-02498-3.	Refereed Article
112 2019	Variability in urban population distributions across Africa, Tuholske, C., Caylor, K.K., Evans, T., Avery, R. [pdf]	Environmental Research Letters 14: 085009. doi:10.1088/1748-9326/ab2432.	Refereed Article
113 2020	Environmental heterogeneity and commodity sharing in smallholder agroecosystems, Giroux, S., McCord, P, Lopus, S., Gower, D., Dell'Angelo, J., Dickinson, S., Chen, X., Caylor, K.K., Evans, T. [pdf]	$PLoS\ One\ 15(1)$: e0228021. doi:10.1371/journal.pone.0228021.	Refereed Article
114 2020	Comparing measures of urban food security in Accra, Ghana, Tuholske, C., Andam, K., Blekking, J., Evans, T., Caylor, K.K. [pdf]	Food Security 12: 417-431. doi:10.1007/s12571-020-01011-4.	Refereed Article
115 2021	Smallholder farmers' use of mobile phone services in central Kenya, Krell, N.T., Giroux, S.A., Guido, Z.S., Hannah, C., Lopus, S.E., Caylor, K.K., Evans, T. [pdf]	Climate & Development 13(3): 215-227. doi:10.1080/17565529.2020.1748847.	Refereed Article
116 2020	Accounting for training data error in machine learning applied to Earth observations, Elmes, A., Alemohammad, H., Avery, R., Caylor, K.K., Eastman, R, Fishgold, L., Friedl, M., Jain, M., Kohli, D., Laso-Bayas, J.C., Lunga, D., McCarty, J.L., Pontius Jr., R.G., Reinmann, A.B., Rogan, J., Song, L., Stoynova, H., Ye, S., Yi, Z-F., Estes, L. [pdf]	Remote Sensing 12: 1034. doi:10.3390/rs12061034.	Refereed Article
117 2020	Effects of crack morphology on soil carbon flux dynamics in a dryland vertisol, DeCarlo, K., Caylor, K.K. [pdf]	Geoderma 375: 114478. doi:10.1016/j.geoderma.2020.114478.	Refereed Article

# Ye	ar Title and Authors	Publisher	Category
118 20	Geographic Object-Based Image Analysis Framework for Mapping Vegetation Phys- iognomic Types at Fine Scales in Neotrop- ical Savannas, Ribeiro, F., Roberts, D.A., Hess, L.L., Davis, F.W., Caylor, K.K., Daldegan, G.A [pdf]	Remote Sensing 12: 1721. doi:10.3390/rs12111721.	Refereed Article
119 20	20 Dynamics of population growth in secondary cities across southern Africa, Zimmer, A., Guido, Z., Tuholske, C., Pakalniskis, A., Lopus, S.E., Caylor, K.K., Evans, T. [pdf]	Landscape Ecology 35: 2501-2516. doi:10.1007/s10980-020-01086-6.	Refereed Article
120 20	20 Climate sensitivity of water use by riparian woodlands at landscape scales, Mayes, M., Caylor, K.K., Singer, Michael, Stella, John, Nagler, Pam [pdf]	Hydrological Processes 34: 4884-4903. doi:10.1002/hyp.13942.	Refereed Article
121 20	Parmer Forecasts: Impacts of Seasonal Rainfall Expectations on Agricultural Decision-Making in Sub-Saharan Africa, Guido, Z., Zimmer, A., Lopus, S., Hannah, C., Gower, D., Waldman, K., Krell, N., Sheffield, J., Caylor, K., Evans, T. [pdf]	Climate Risk Management 30: 100247. doi:10.1016/j.crm.2020.100247.	Refereed Article
122 20	21 Deforestation-induced warming over tropical mountain regions regulated by elevation, Zeng, Z., Wang, D., Yang, L., Wu, J., Ziegler, A., Liu, M., Clais, P., Searchinger, T., Yang, Z-L, Chen, D., Chen, A, Li, LZX, Piao, S., Taylor, D., Cai, X., Pan, M., Peng, L., Lin, P., Gower, D., Feng, Y., Zheng, C., Guan, K., Lian, X., Wang, T., Wang, L., Jeong, S-J., Wei, Z., Sheffield, S., Caylor, K., Wood, EF [pdf]	Nature Geoscience 14: 23-29. doi:10.1038/s41561-020-00666-0.	Refereed Article
123 20	21 Mapping research topics at multiple levels of detail, Lafia, S., Kuhn, W., Caylor, K.K., Hippel, L. [pdf]	Patterns 2: 100210. doi:10.1016/j.patter.2021.100210.	Refereed Article
124 20	Has the vision of a gender quota rule been realized for community-based water management committees in Kenya?, Hannah, C., Giroux, S., Krell, N, Lopus, S., McCann, L., Zimmer, A., Caylor, K.K., Evans, T.P. [pdf]	World Development 137: 105154. doi:10.1016/j.worlddev.2020.105154.	Refereed Article
125 20	Challenges and opportunities in precision irrigation decision-support systems for center pivots, Zhang, J., Guan, K., Peng, B., Jiang, C., Zhou, W., Yang, Y., Pan, M., Franz, T., Heeren, D., Rudnick, D., Abimbola, O., Kimm. H, Caylor, K., Good, S., Khanna, M., Gates, J., Cai, Y. [pdf]	Environmental Research Letters 16: 053003. doi:10.1088/1748-9326/abc436.	Refereed Article

# Year	Title and Authors	Publisher	Category
126 2021	Field-scale soil moisture bridges the spatial- scale gap between drought monitoring and agricultural yields, Vergopolan, Noemi, Xiong, S., Estes, L., Wanders, N., Cheney, N.W., Wood, E.F., Konar, M., Caylor, K.K., Beck, H.E., Gatti, N., Evans, T, Sheffield, J. [pdf]	Hydrology and Earth System Science 25: 1827-1847. doi:10.5194/hess-25-1827-2021.	Refereed Article
127 2021	Vegetation responses to climatic and geologic controls on water availability in Arizona, Sabathier, R., Singer, M.B., Stella, J., Roberts, D., Caylor, K.K. [pdf]	Environmental Research Letters 16: 064029. doi:10.1088/1748-9326/abfe8c.	Refereed Article
128 2021	Drought onset and propagation into soil moisture and grassland vegetation responses during the 2012–2019 major drought in Southern California, Wartner, M., Singer, M.B., Cuthbert, M.O., Roberts, D., Caylor, K.K., Sabathier, R., Stella, J. [pdf]	Hydrology and Earth System Science 25: 3713–3729. doi:10.5194/hess-25-3713-2021.	Refereed Article

Works In Press:

#	Year	Title and Authors	Publisher	Category
B-1	2021	Global Urban Population Exposure to Extreme Heat, Tuholske, C., Caylor, K.K., Funk, C., Verdin, A., Sweeney, S., Grace, K., Peterson, P., Evans, T. [pdf]	Proceedings of the National Academy of Sciences .	Refereed Article

Work Submitted:

None Provided.

PART II. TEACHING (50% Geography Dept. workload; 50% Bren School workload. 50% Administrative 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. 50% workload is 1.75 IWC per year.

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.

 ${\bf Course} \ {\bf Equivalencies:}$

- ESM 401A/ESM 402A: 4 units = 0.29 IWC
- $\bullet~$ ESM 401B/ESM 402B: 4 units = 0.29 IWC

- ESM 401C/ESM 402C: 4 units = 0.29 IWC
- 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.
- Co-taught 4-unit MESM core course = 0.6 IWC per instructor.
- \bullet 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. ERI Directorship IWC Workload Credit: 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 required teaching load in Geography is 1-0-1-1 (an average of 0.75 IWC per year), and in Bren it would be 1-0.5-1-1 (an average of 0.875 IWC per year).
- 4. *IWC Workload Balance*: Overall, the combination of my joint appointments and ERI directorship establish my annual teaching requirements at 1.625 IWC per year. Since my initial appointment, my total IWC balance in Geography is a surplus of 0.25 IWC relative to my total requirements and my total IWC balance in the Bren School is a surplus of 2.71 IWC. Overall, the balance of my IWC teaching surplus at UCSB is 2.96 IWC.

Catalog Courses:

Qtr	Course		Units	$\mathrm{Hrs/Wk}$	Enrollment	ESCI/Written Evals Avail.
F18	GEOG 596, Directed Reading and Research	Type Tut		2	2	No/No
F18	ESM 203, Earth System Science	Lec	4.0	1	90	Yes/Yes [link]
F18	ESM 401B, Group Project - B	Dis	4.0	1	5	No/No
F18	GEOG 199RA, Independent Research Assis-	Tut		1	1	No/No
	tant					,
F18	GEOG 598, Master's Thesis	Tut		1	1	No/No
F18	GEOG 599, PhD Dissertation	Tut		2	2	No/No
W19	GEOG 596, Directed Reading and Research	Tut		1	1	No/No
W19	ESM 401C, Group Project - C	Dis	4.0	1	5	No/No
W19	GEOG 599, PhD Dissertation	Tut		2	2	No/No
S19	GEOG 596, Directed Reading and Research	Tut		1	1	No/No
S19	ESM 401A, Group Project - A	Lec	4.0	1	5	No/No
S19	ESM 401D, Group Project - D	Dis	2.0	1	4	No/No
S19	GEOG 599, PhD Dissertation	Tut		2	2	No/No
S19	G136, Water, Energy, and Ecosystems	Lec	4.0	1	10	Yes/Yes [link]
F19	GEOG 596, Directed Reading and Research	Tut		4	4	No/No
F19	ESM 203, Earth System Science	Lec	4.0	1	87	Yes/Yes [link]
F19	ESM 401B, Group Project - B	Dis	4.0	1	4	No/No
F19	GEOG 597, Individual Study - PhD Exam	Tut		1	1	No/No
F19	GEOG 598, Master's Thesis	Tut		1	1	No/No
F19	GEOG 599, PhD Dissertation	Tut		2	2	No/No
W20	GEOG 596, Directed Reading and Research	Tut		3	3	No/No
W20	ESM 401C, Group Project - C	Dis	4.0	1	4	No/No
W20	GEOG 199, Independent Studies	Tut		1	1	No/No
W20	GEOG 599, PhD Dissertation	Tut		2	2	No/No

Catalog Courses - continued from previous page

Qtr	Course		Units	$\mathrm{Hrs/Wk}$	Enrollment	ESCI/Written
COO	CECC FOC D' + 1 D 1' 1 D 1	Type		1	-1	Evals Avail.
S20	GEOG 596, Directed Reading and Research	Tut	4.0	1	1	No/No
S20	ESM 401A, Group Project - A	Lec	4.0	1	4	No/No
S20	ESM 401D, Group Project - D	Dis	2.0	1	4	No/No
S20	GEOG 597, Individual Study - PhD Exam	Tut		1	1	No/No
S20	GEOG 598, Master's Thesis	Tut		1	1	No/No
S20	GEOG 599, PhD Dissertation	Tut		1	1	No/No
S20	GEOG 136, Water, Energy, and Ecosystems	Lec	4.0	1	10	Yes/Yes [link]
F20	ESM 203, Earth System Science	Lec	4.0	1	83	Yes/Yes [link]
F20	GEOG 596, Directed Reading and Research	Tut		2	2	No/No
F20	ESM 401B, Group Project - B	Dis	4.0	1	4	No/No
F20	GEOG 597, Individual Study - PhD Exam	Tut		1	1	No/No
F20	GEOG 598, Master's Thesis	Tut		1	1	No/No
F20	GEOG 599, PhD Dissertation	Tut		2	2	No/No
W21	GEOG 596, Directed Reading and Research	Tut		2	2	No/No
W21	ESM 401C, Group Project - C	Dis	4.0	1	4	No/No
W21	GEOG 597, Individual Study - PhD Exam	Tut		1	1	No/No
W21	GEOG 598, Master's Thesis	Tut		1	1	No/No
W21	GEOG 599, PhD Dissertation	Tut		2	2	No/No
S21	GEOG 596, Directed Reading and Research	Tut		1	1	No/No
S21	ESM 401A, Group Project - A	Lec	4.0	1	5	No/No
S21	ESM 401D, Group Project - D	Dis	2.0	1	4	No/No
S21	GEOG 597, Individual Study - PhD Exam	Tut		1	1	No/No
S21	GEOG 598, Master's Thesis	Tut		1	1	No/No
S21	GEOG 599, PhD Dissertation	Tut		1	1	No/No
S21	GEOG 288KC, Special Topics in Geography	Dis	2.0	1	5	Yes/Yes [link]

MESM Projects Advised

Year	Project Title	Students	Q3	Q4	Q5	Q7
2020 -	Wild Pig Man-	Peter Omasta,	100%	100% Excel-	100% Always	100% Excel-
2021	agement at the	Shuhan Song, Ben-	Strongly	lent		lent
	Jack and Laura	son Truong, AJ	Agree			
	Dangermond	Zekanoski				
	Preserve					
2019 -	A stormwater	Eleonore Durand,	0% Strongly	50% Satis-	75% Always,	75% Satis-
2020	management	Natalie Dornan,	Agree, 100%	factory, 50%	25% Usually	factory, 25%
	plan to reduce	Tara Jagadish,	Somewhat	Fair		Poor
	pollution in	Erica Johnson	Agree			
	Maunalua Bay					
2018 -	The Danger-	Brad Anderson,	40% Some-	20% Very	40% Usually,	20% Very
2019	mond Preserve:	Mechan Bowen,	what agree,	Good, 60%	20% Some-	good, 60%
	Integrating his-	Lucy Genua, Kam	40% Neu-	Satisfactory,	times, 40%	Satisfactory,
	torical chance	Howo, Genelle Ives	tral, 20%	20% Fair	Rarely	20% Fair
	and future pro-		Somewhat			
	jections to guide		disagree			
	conservation					

Undergraduate Projects Directed:

Student	Project	Role	Year
Sierra Yarnes	Hydrological dynamics of the Dangermond Preserve	Chair	2020

Graduate Degree Committees, MA/MS Committees:

Student	Year	Institution	Chair/Member	Current Employment
Ryan Avery	2020	UCSB	Chair	Analyst - Development Seed

Graduate Degree Committees, Ph.D. Committees:

Student	Year	Institution	Chair/Member	Current Employment
Susan Meerdink	2018	UCSB	Committee	Assistant Professor - University of Iowa
			Member	
Keita DeCarlo	2019	Princeton	Chair	Researcher - USGS
		University		
Christin Abel	2020	University of	Assessment	Postdoctoral Researcher - University of
		Copenhagen	Committee	Copenhagen
			Member	
Cascade Tuholske	2020	UCSB	Chair	Earth Institute Postdoctoral Research Scientist - Columbia University
Drew Gower	2020	Princeton	Chair	Postdoctoral Associate - University of
		University		Maryland
Fernanda Riberio	2020	UCSB	Committee	Postdoctoral Researcher - Smithsonian Na-
			Member	tional Zoo and Conservation Center
Sara Lafia	2020	UCSB	Committee	Postdoctoral Fellow - University of Michi-
			Member	gan
Natasha Krell	2021	UCSB	Chair	Research Scientist - Department of Defense
Elizabeth Forbes	2021	UCSB	Committee	Postdoctoral Fellow - Yale University
			Member	
Mike Johnson	2021	UCSB	Committee	Water Resource Engineer - NOAA
			Member	
Bryn Morgan	In	UCSB	Chair	-
	Progress			
Kristina Fauss	In	UCSB	Chair	-
	Progress			
Anna Boser	In	UCSB	Co-Chair	-
5 1 1 0	Progress	**************************************	G G1 .	
Rachel Green	In	UCSB	Co-Chair	-
C1 + TT 1	Progress	HOOD	ā tu	
Chris Heckman	In	UCSB	Committee	-
C1 · T7:11	Progress	HOOD	Member	
Chris Kibler	In	UCSB	Committee	-
	Progress		Member	

Graduate Degree Committees, Ph.D. Committees continued on next page

Graduate Degree Committees, Ph.D. Committees - continued from previous page

Student	Year	Institution	Chair/Member	Current Employment
Ling Cai	In	UCSB	Committee	-
	Progress		Member	
Lory Willard	In	University of	Committee	-
	Progress	Florida	Member	
Pierre Lochin	In	University of	Committee	-
	Progress	Lyon	Member	

Postdoctoral Scholars Supervised:

Postdoctoral Researcher	Years	Affiliation	Current Employment
Marc Mayes	2016-	UCSB, Geography	-
	2020		
Farai Kaseke	2018 -	UCSB, Geography	-
Marcus Thompson	2019 -	UCSB, NCEAS	-

Other Teaching Contributions:

Instructor, Coupled Natural-Human Systems Short Course. University of California, Irvine. August, 2018 Advisor, WAVES Lab High School Summer Internship, Mahima Agarwal, Palo Alto, CA. June, 2018

PART III. PROFESSIONAL ACTIVITIES

Lectures and Seminars Presented:

Month/Year	Title	Meeting/Venue (Place)
8/2018	Invited Speaker, Session on "Vegetation dynamics and ecosystem resilience under global climate change"	Ecological Society of America Annual Meeting. (New Orleans, LA)
8/2018	Instructor, Coupled Natural-Human Systems Short Course	Ridge to Reef NRT Graduate Training Program. (University of California, Irvine)
5/2019	Keynote Speaker, The Jack and Laura Dangermond Preserve: A Perfect Place for Advancing Conservation Science	Board of Trustees Meeting. (University of California, Santa Barbara)
8/2019	Invited Speaker, The effects of climate variability on the structure and function of tropical vegetation	44th New Phytologist Symposium. (Accra, Ghana)
9/2019	Invited Speaker, Coupled natural-human dynamics in smallholder rain-fed agricultural systems	Department of Civil and Environmental Engineering. (University of Florida)
12/2019	Invited Speaker, Linkages between water, vegetation, and livelihoods in Sub-Saharan drylands	American Geophysical Union. (San Francisco, CA)

Lectures and Seminars Presented continued on next page

Lectures and Seminars Presented - continued from previous page

Month/Year	Title	Meeting/Venue (Place)
5/2021	Keynote Speaker, A mile wide and a pixel deep: Integrating machine learning, com- puter vision, and satellite imagery for coupled- natural human system modeling	ML in Earth & Environmental Science.

Conference Posters and Presentations:

Month/Year	Title	Meeting/Venue (Place)
8/2018	Multi-scale dynamics of vegetation responses to changing rainfall variability in dryland regions. *K.K. Caylor (Invited)	Ecological Society of America. (New Orleans, LA)
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.	International Conference on Migration, Environment and Climate: What risk inequali- ties? . (Paris, France)
12/2018	Fusing Remote Sensing and Demography to Assess which Sub-Saharan African Cities Are Growing the Fastest. *Tuholske, C., Caylor, K.K.	American Geophysical Union Fall Meeting. (Washington, DC)
12/2018	A Convolutional Neural Network Approach to Segmenting Smallholder Agriculture. Rya*n Barry Avery, Kelly K Caylor, Lyndon D Estes, Ronald Eastman, Su Ye, Lei Song, Kaixi Zhang, Sitian Xiong, Dennis McRitchie, Tammy Woodard	American Geophysical Union Fall Meeting. (Washington, DC)
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, Lyndon D Estes	American Geophysical Union Fall Meeting. (Washington, DC)
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, Kelly K Caylor	American Geophysical Union Fall Meeting. (Washington, DC)
12/2018	Reimagining high-resolution ecosystem monitoring with low-cost autonomous sensing. *Kelly K Caylor, Elizabeth Forbes, Grace Lewin, Mark Hirsh	American Geophysical Union Fall Meeting. (Washington, DC)
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	American Geophysical Union Fall Meeting. (Washington, DC)

Conference Posters and Presentations - continued from previous page

Month/Year	Title	Meeting/Venue (Place)
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	4th Open Science Meeting of the Global Land Programme. (Bern, Switzerland)
12/2019	Drought projection and modeling causal feedbacks with Earth Observations in East Africa. *Green, RK; Caylor, KK; Funk, CC; Roberts, DA (Invited)	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	Improved assessment of drylands riparian vegetation water use at leaf-to-landscape scales using unmanned aerial vehicle (UAV)-based thermal remote sensing. *Morgan, B.; Mayes, MT; Caylor, KK	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	The spatiotemporal scales of drought and its impacts on field-scale agricultural yields. *Vergopolan, N; Xiong, S; Sheffield, J; Wood, EF; Evans, TP; Caylor, KK; Estes, LD	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	Monitoring dryland riparian vegetation water use and stress via ECOSTRESS. *Mayes, MT; Morgan, B; Caylor, KK; Singer, MB; Stella, JC; Roberts, DA	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	Improving maps of smallholder-dominated croplands through tight integration of human and machine intelligence. *Estes, LD; Ye, S; Song, L; Avery, RB; McRitchie, D; Eastman, R; Debats, SR; Caylor, KK	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	A fine-resolution, global comparison of urban exposure to extreme temperature. *Tuholske, C; Funk, CC; Caylor, KK; Evans, T; Sweeney, S.	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	To what extent does climate variability explain farmers' planting decisions in central Kenya?. *Krell, N; Davenport, F; Peterson, S; Shukla, S; Husak, GJ; Turner, W; Funk, CC; Caylor, KK	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	The greening and browning of the Arizona desert in response to climate-controlled water availability. *Sabathier, R; Singer, MB; Stella, JC; Caylor, KK; Roberts, DA	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	Animal, vegetable, mineral: Identifying the indirect effects of large vertebrate herbivores and land use on carbon cycling in a Kenyan savanna ecosystem. *Forbes, ES; Caylor, KK; Young, T; Hirsch, M; Young, HS	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	Is Forest Code legislation protecting Neotropical savanna habitats in agricultural landscapes? A high-resolution Gap analysis of the Brazilian Cerrado. *Ribeiro, F; Davis, FW; Roberts, DA; Caylor, KK; Hess, LL; Daldegan, GA; Brum, FT.	American Geophysical Union Fall Meeting. (San Francisco)

Conference Posters and Presentations - continued from previous page

Month/Year	Title	Meeting/Venue (Place)
12/2019	Onset and propagation of the 2012-2016 drought in southern California. *Warter, MM; Singer, MB; Roberts, DA; Cuthbert, MO; Caylor, KK; Sabathier, R; Stella, JC	American Geophysical Union Fall Meeting. (San Francisco)
12/2019	Linkages between water, vegetation, and livelihoods in Sub-Saharan drylands. *Caylor, KK; Evans, TP; Estes, LD; Sheffield, J; Vergopolan, N; Krell, N; Gower, D; Guido, Z (Invited)	American Geophysical Union Fall Meeting. (San Francisco)
8/2020	Wild robots: Developing DIY technology to investigate soil carbon flux in a long-term, landscape-scale, large herbivore exclosure experiment in a central Kenya savanna. *Forbes, ES; Caylor, KK; Hirsch, ME; Schimel, JP; Young, T; Young, HS	American Geophysical Union Fall Meeting. (Virtual)
12/2020	Global Urban Population Exposure to Extreme Heat. *Tuholske, C; Caylor, KK; Funk, C; Verdin, A; Sweeney, S; Peterson, P; Evans, T; Grace, K	American Geophysical Union Fall Meeting. (Virtual)
12/2020	Improving drought monitoring and crop yield prediction with field-scale soil moisture. *Sheffield, J; Vergopolan, N; Xiong, S; Estes, LD; Wanders, N; Chaney, NW; Wood, EF; Konar, M; Caylor, KK; Beck, H; Gatti, N; Evans, T	American Geophysical Union Fall Meeting. (Virtual)
12/2020	Seasonal Vegetation-Hydrological Coupling across Land Covers in East Africa. *Green, RK; Caylor, KK; Funk, CC; Roberts, DA	American Geophysical Union Fall Meeting. (Virtual)
12/2020	Consequences of variable rainfall on farming outcomes for dryland maize farmers. *Krell, N; Morgan, B; Gower, D; Caylor, KK	American Geophysical Union Fall Meeting. (Virtual)
4/2021	Stable isotope insights into dryland ecohydrology. *Singer, M; Sargeant, S; Stella, J.; Caylor, KK; Roberts, D.; Kui, L.; Kaseke, Farai; Mayes, M; Pelletier, L;, Williams, J; Warter, M; Sabathuer, R.; McMahon, C; Kibler, C; Morgan, B; Rohde, M.	European Geosciences Union, General Assembly . (Virtual)

Grants and Contracts:

Years	Agency/Source	ee Title	Total Amount	Total to UCSB	Personal Share	Role	New/Cont.
$\frac{1/1/2018}{12/31/20}$	•	Developing and Scaling up the Mapping Africa Active Learning Platform	\$79,838	\$79,838	\$79,838	PI	Cont
$\frac{5}{1}/2018$ $\frac{6}{30}/201$		Task 25: Dangermond Preserve Bren Summer Internships and Group Project	\$17,000	\$17,000	\$17,000	PI	Cont

Grants and Contracts - continued from previous page

Years	Agency/Source	ee Title	Total Amount	Total to UCSB	Personal Share	Role	New/Cont.
$\frac{1}{1}$ 2019- $\frac{1}{31}$ 2020	National Geographic Society	Global maps of center pivot agri- culture for improving estimates of land use change and water use	\$100,811	\$100,811	\$100,811	PI	New
9/1/2018- 8/31/2022	Department of Defense, SERDP	Strategic Environmental Research & Development: Understanding and Assessing Riparian Habitat Vulnerability to Drought-Prone Climate Regimes on Department of Defense Bases in the Southwestern US	\$1,704,23	6 \$1,704,23	6 Pooled	Co- PI	Cont
10/1/2019- 9/30/2021	Zegar Foundation	Developing and Implementing Novel Tools for Assessing Ripar- ian Ecosystem Resilience at the Dangermond Preserve	\$321,583	\$321,583	\$321,583	PI	New
9/1/2019- 8/31/2023	National Science Foundation	CNH2-L: Linkages and Interactions Between Urban Food Security and Rural Agricultural Systems	\$1,600,00	0 \$243,724	\$243,724	Co- PI	New
		Total New:	\$2,022,39	4 \$666,118	\$666,118		
		Total:	\$3,823,46	8 \$2,467,19	2 \$762,956		

Reviewing and Refereeing Activity:

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) 2018 Referee Nature Communications 2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee Proceedings of the National Academy of Sciences	Year	Activity	Journal/Agency
2018 Referee Communications Biology 2018 Referee Journal of Water Resources Planning & Management 2018 Referee Landscape Ecology 2018 Referee Nature Climate Change (3) 2018 Referee Nature Communications 2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Agricultural and Forest Meteorology
2018 Referee Landscape Ecology 2018 Referee Nature Climate Change (3) 2018 Referee Nature Communications 2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Biology Letters
2018 Referee Landscape Ecology 2018 Referee Nature Climate Change (3) 2018 Referee Nature Communications 2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Communications Biology
2018 Referee Nature Climate Change (3) 2018 Referee Nature Communications 2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Journal of Water Resources Planning & Management
2018 Referee Nature Communications 2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Landscape Ecology
2018 Referee Progress in Physical Geography 2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Nature Climate Change (3)
2018 Referee Water Resources Research 2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Nature Communications
2019 Referee Water Resources Research 2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Progress in Physical Geography
2020 Editor Earth's Future (39) 2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2018	Referee	Water Resources Research
2020 Referee Nature Sustainability 2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2019	Referee	Water Resources Research
2020 Referee New Phytologist 2020 Referee Proceedings of the National Academy of Sciences	2020	Editor	Earth's Future (39)
2020 Referee Proceedings of the National Academy of Sciences	2020	Referee	Nature Sustainability
·	2020	Referee	New Phytologist
2004 P.W. P. (10)	2020	Referee	Proceedings of the National Academy of Sciences
2021 Editor Earth's Future (18)	2021	Editor	Earth's Future (18)
2021 Referee One Earth	2021	Referee	One Earth

Special Appointments:

Year	Role	Organization
2015 - 2019	Member	Editorial Board, Environmental Research Reviews, Environmental Research
		Letters
2020	Editor	Earth's Future, American Geophysical Union
2021	Editor	Earth's Future, American Geophysical Union

Other Professional Activities:

Year	Role	Organization
2018	Tenure case reviewer	University of Toronto
2018	Promotion case reviewer	SUNY-ESF
2018	Promotion case reviewer	University of Washington
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"
2020	Promotion case reviewer	Texas A&M University
2021	Tenure case reviewer	Michigan State University
2021	Tenure case reviewer	Duke University

PART IV. SERVICE

University Service:

Year	Role	Service
2018 - 2019	Participating Faculty	Interdepartmental PhD Emphasis in Environment and Society
2018 - 2019	Member	Data Science Curriculum Committee
2018 - 2019	Member	North Campus Open Space Administrative Advisory Group
2018 - 2019	Member	Campus Data Science Initiative Working Group
2018 - 2019	Member	Data Science Working Group, UCSB
2018 - 2019	Ex-Officio Member	Earth Research Institute Advisory Committee, UCSB
2018 - 2019	Director	Earth Research Institute, University of California, Santa Barbara
2018 - 2019	Chair	Earth Research Institute, Personnel Committee
2018 - 2019	Member	NCEAS Campus Advisory Committee
2019 - 2020	Participating Faculty	Interdepartmental PhD Emphasis in Environment and Society
2019 - 2020	Member	Data Science Curriculum Committee
2019 - 2020	Member	Campus Data Science Initiative Working Group
2019 - 2020	Member	North Campus Open Space Administrative Advisory Group
2019 - 2020	Member	Dangermond Endowed Chair Search Committee, Office of Research
2019 - 2020	Ex-Officio Member	Earth Research Institute Advisory Committee, UCSB
2019 - 2020	Chair	Earth Research Institute, Personnel Committee
2019 - 2020	Member	Space Committee, Office of Research
2020 - 2021	Participating Faculty	Interdepartmental PhD Emphasis in Environment and Society
2020 - 2021	Member	Offsite Research Committee, University of California, Santa Barbara
2020 - 2021	Member	Campus Data Science Initiative Working Group
2020 - 2021	Member	Steering Committee, Climate Hazards Center, UCSB
2020 - 2021	Member	North Campus Open Space Administrative Advisory Group
2020 - 2021	Ex-Officio Member	Earth Research Institute Advisory Committee, UCSB
2020 - 2021	Ex-Officio Member	Earth Research Institute Computing Committee, UCSB
2020 - 2021	Chair	NCEAS Campus Advisory Committee
2020 - 2021	Chair	Earth Research Institute, Personnel Committee

Department Service:

Year	Role	Service
2018 - 2019	Member	Sustainable Water Markets (SWM) Fellowship Program Committee, Bren
		School of Environmental Science and Management, University of California,
		Santa Barbara
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	Sustainable Water Markets (SWM) Fellowship Program Committee, Bren
		School of Environmental Science and Management, University of California,
		Santa Barbara
2020 - 2021	Chair	Space Committee, Department of Geography, University of California, Santa
		Barbara
2020 - 2021	Member	DEI Committee, Department of Geography, UCSB
2020 - 2021	Member	Faculty Executive Committee, Bren School of Environmental Science and Man-
		agement, University of California, Santa Barbara

Public Service: None Provided.