**Prof. Gregory S. Okin (USA)**

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Biography:

Greg Okin is a professor in the Department of Geography at UCLA.  His main research interests are vegetation-soil-erosion interactions in drylands, with special attention to processes of land degradation in these regions.

Recent Publications:

Bhattachan, A., P. D’Odorico, G.S. Okin, 2015, Biogeochemistry of dust sources in Southern Africa, *Journal of Arid Environments,* in press.

Okin, G.S., M. Moreno-de las Heras, P.M. Saco, H.L. Throop, E.R. Vivoni, A.J. Parsons, J. Wainwright, D.P.C. Peters, 2015, Connectivity in dryland landscapes: shifting concepts of spatial interactions. *Frontiers in Ecology and the Environment,* **13** (1), 20-27. doi: 10.1890/140163.

Bestelmeyer, B.T., G.S. Okin, M.C. Duniway, S.R. Archer, N.F. Sayre, J.C. Williamson, J.E. Herrick, 2015, A state change-land use change framework for assessing desertification, *Frontiers in Ecology and the Environment*, **13** (1), 28-36. doi: 10.1890/140162/

Dintwe, K., G.S. Okin, P. D’Odorico, T. Hrast, N. Mladenov, A. Handorean, A. Bhattachan, K.K. Caylor, 2014, Soil Organic Carbon and Total Nitrogen Pools in the Kalahari: Potential Impacts of Climate Change on Carbon Sequestration, *Plant and Soil*, Online First, DOI: 10.1007/s11104-014-2292-5.

Li, J., G.S. Okin, J. Tatarko, J.E. Herrick, 2014, Consistency of wind erosion assessments across land use and land cover types: a critical analysis, *Journal of Aeolian Research*, in press.

Webb, N.P., G.S. Okin, S. Brown, 2014, The effect of roughness elements on wind erosion: the importance of surface shear stress distribution, *Journal of Geophysical Research – Atmospheres*, v. 119, pp. 6066-6084, doi:10.1002/2014JD021491.

Mishra, N.B., K.A. Crews, G.S. Okin, 2014, Relating Spatial Patterns of Fractional Land Cover to Savanna Vegetation Morphology using Multi-scale Remote Sensing in the Central Kalahari, *International Journal of Remote Sensing*,v. 35(6), pp. 2082-2104. DOI:10.1080/01431161.2014.885666

Stewart, J., A. J. Parsons, J. Wainwright, G. S. Okin, B. T. Bestelmeyer, E. L. Fredrickson, and W. H. Schlesinger, 2014, Modeling emergent patterns of dynamic desert ecosystems. *Ecological Monographs*, v. 84, pp. 373-410.

Bhattachan, A., P. D’Odorico, K. Dintwe, G.S. Okin, S.L. Collins, 2014, Resilience and recovery potential of duneland vegetation in the southern Kalahari, *Ecosphere*, v. 5 (1), 2.

Meyer, T., P. D'Odorico, G. S. Okin, H. H. Shugart, K. K. Caylor, F. C. O'Donnell, A. Bhattachan, and K. Dintwe. 2014. An analysis of structure: Biomass structure relationships for characteristic species of the western Kalahari, Botswana. *African Journal of Ecology* v. 52, pp. 20-29.

Li, J., G.S. Okin, S.M. Skiles, T.H. Painter, 2013, Relating variation of dust on snow to bare soil dynamics in the western United States, *Environmental Research Letters*, v. 8, 044054.

Bhattachan, A., P. D'Odorico, K. Dintwe, and G. S. Okin. 2013. Potential dust emissions from the southern Kalahari’s duneland. J*ournal of Geophysical Research Earth Surface* v. 118, p. 128.

Rachal, D. M., H. C. Monger, G. S. Okin, and D. C. Peters. 2012. Landform influences on the resistance of grasslands to shrub encroachment, northern Chihuahuan Desert, USA. *Journal of Maps* v.8, pp. 507-513.

Vest, K.R., A.J. Elmore, J.M. Kaste, G.S. Okin, J. Li, 2013, Estimating total horizontal aeolian flux within shrub-invaded groundwater dependent meadows using empirical and mechanistic models. *Journal of Geophysical Research-Earth Surface*, v. *118*, 1132-1146, DOI: 10.1002/jgrf.20048.