Applying Earth Surface Monitoring to Investigate Climate and Land Change Interactions

Guest Editors:

**Mr. Christopher Soulard**  
US Geological Survey, Western Geographic Science Center 345 Middlefield Road, Menlo Park, 94025, CA, USA  
csoulard@usgs.gov

**Dr. Miguel Villarreal**  
US Geological Survey, Western Geographic Science Center 345 Middlefield Road, Menlo Park, 94025, CA, USA  
mvillarreal@usgs.gov

Deadline for manuscript submissions:  
**closed (30 April 2020)**

**Message from the Guest Editors**

In this Special Issue, we welcome contributions that further advance EOS land change monitoring but have a greater interest in contributions that investigate cause–effect interactions between land change (detected by EOS) and climate. We request submissions on the following topics:

- New machine/deep learning algorithms for multi-temporal EOS analysis;
- Monthly-to-annual scale monitoring using cloud computing;
- Innovative applications in land change topics, including drought monitoring, vegetation phenology, post-fire vegetation recovery, etc.;
- Improvements in detecting and analyzing subtle changes using EOS;
- Disentangling the role of climate on land change in complex systems;
- Forcings and feedbacks between climate and land change over space and time;
- Novel trend analyses across dense time series of climate and land cover change information;
- Surface change hindcasting or forecasting informed by established climate-land change relationships.

Mr. Christopher Soulard  
Dr. Miguel Villarreal  
Guest Editors

applyingearthsurfacemonitoring.png