Using Citizen Science to Understand Thirty Years of Change in Global Kelp Cover by Expanding the Zooniverse to NASA Satellite Imagery

Jarrett Byrnes, UMass Boston
Kyle Cavanaugh, UCLA
Laura Trouille, The Zooniverse
Alison Haupt, Cal State Monterey Bay
The Problem: Long-Term Truly Large-Scale Kelp Monitoring
But...

- Image processing not flexible for new sites
- Not a scalable solution to other Landsat projects
- Need for better engagement
The Future

Short-term Goals
- Finalize citizen science calibration from old site and beta trials
- New image processing pipeline
- Full site re-launch in July

Long-term Goals:
- Analysis of ~30 years of global kelp cover
- Developing educational materials to pair with Floating Forests
- Landsat -> Citizen Science Project web-based pipeline