

Applications of Crowdsourcing for Development and Disaster Response

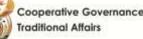
Engaging Communities in Grassroots Monitoring of Environments in Crisis

Shannon Dosemagen– Public Laboratory for Open Technology and Science

















Using inexpensive DIY techniques, we seek to change how people see the world in environmental, social, and political terms. We are activists, educators, technologists, and community organizers interested in new ways to promote action, intervention, and awareness through a participatory research model.

PublicLaboratory.org

Problems with current "citizen science" approach to monitoring

- Expensive
- Limited to hands of experts
- Lag in knowledge between experts and people on the ground
- People on ground don't own the data
- They also don't understand how it is made
- Industry has far greater capacity to generate data

Civic Science Approach to Environmental Health Monitoring

- Community oriented and developed
- Community owned
- Tools can be adapted and spread in an open source fashion
- Supports public exploration and investigation of environmentslocals are regarded as experts of their own environments

"The term 'civic science' has been used to describe science "that questions the state of things, rather than a science that simply serves the state" (Kim and Mike Fortun 2005:50)

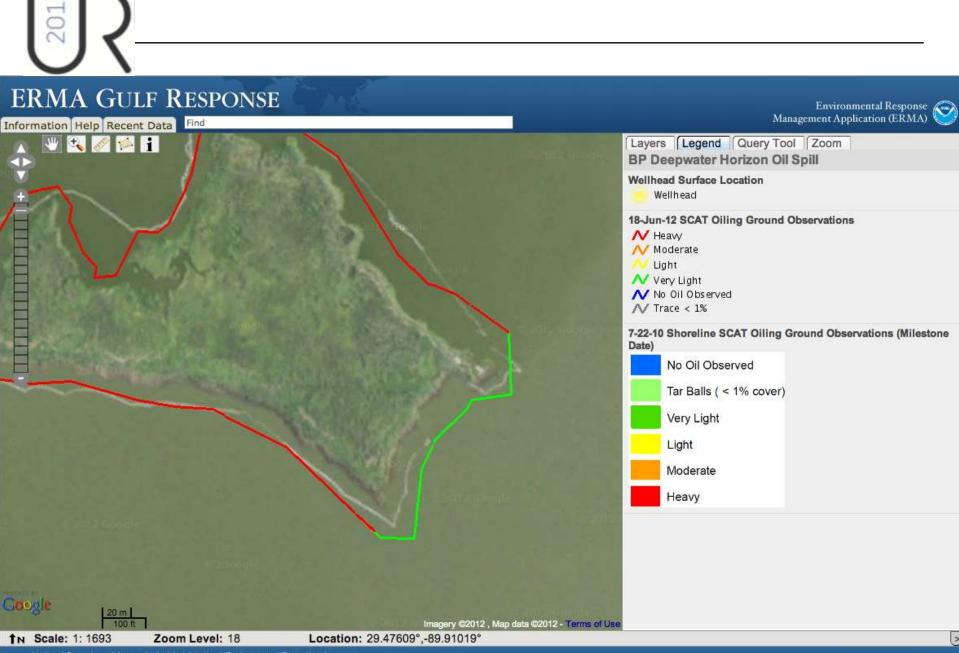


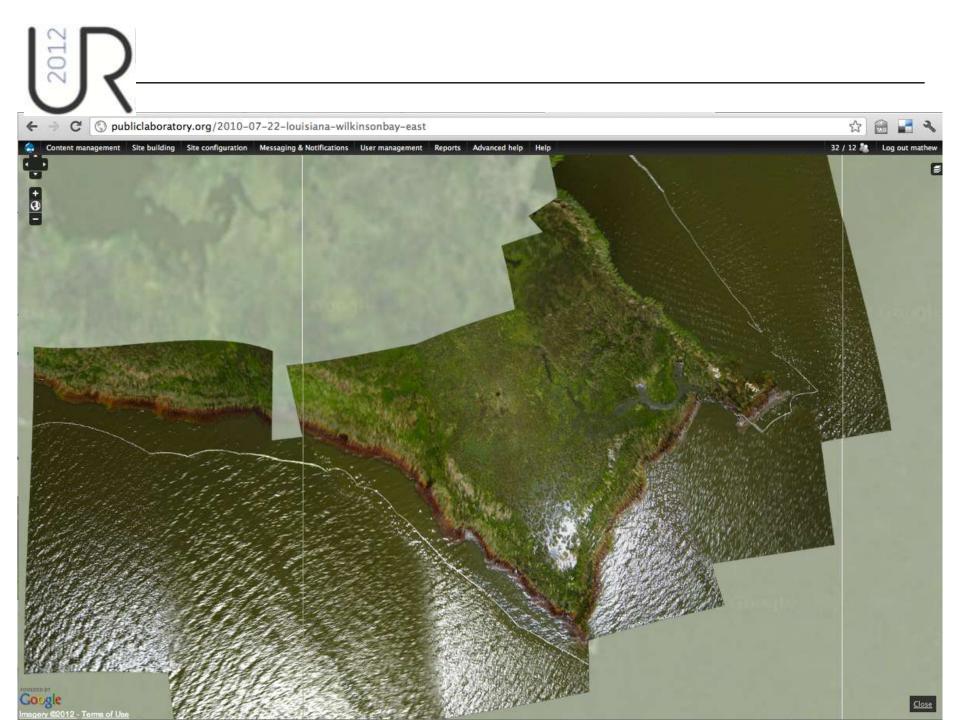
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mapping

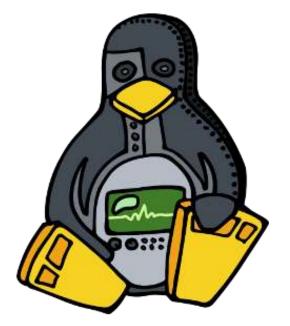


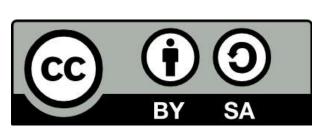






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Balloon mapping kit variations

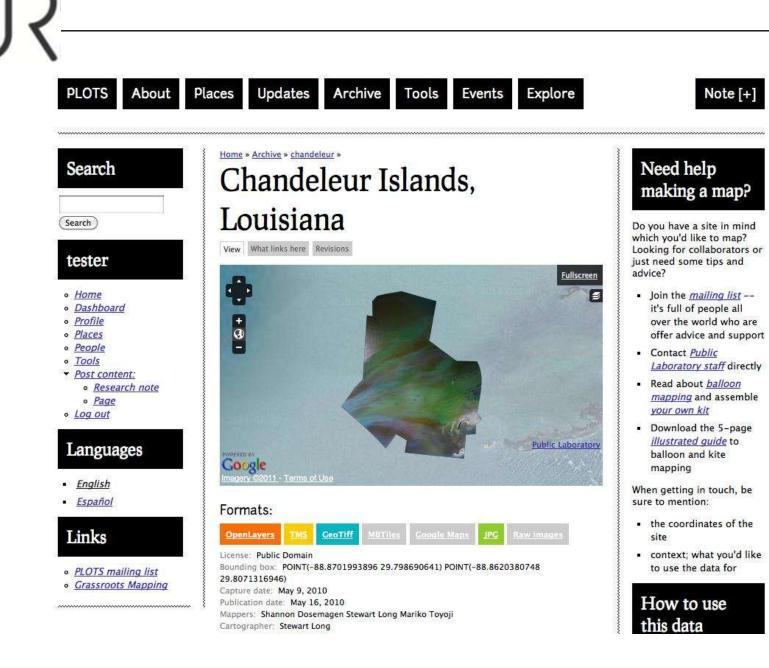




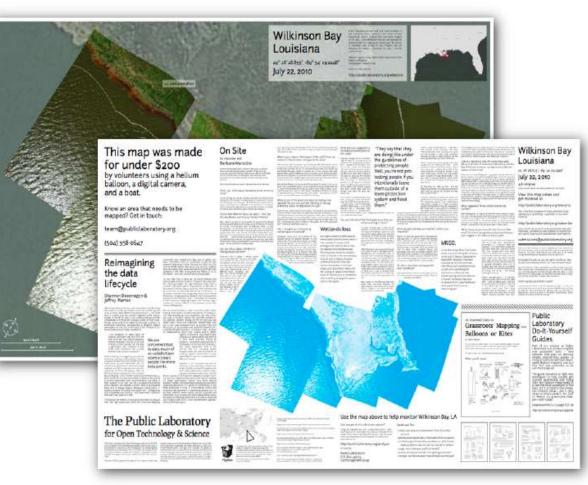




Public Lab Archive publiclaboratory.org/archive



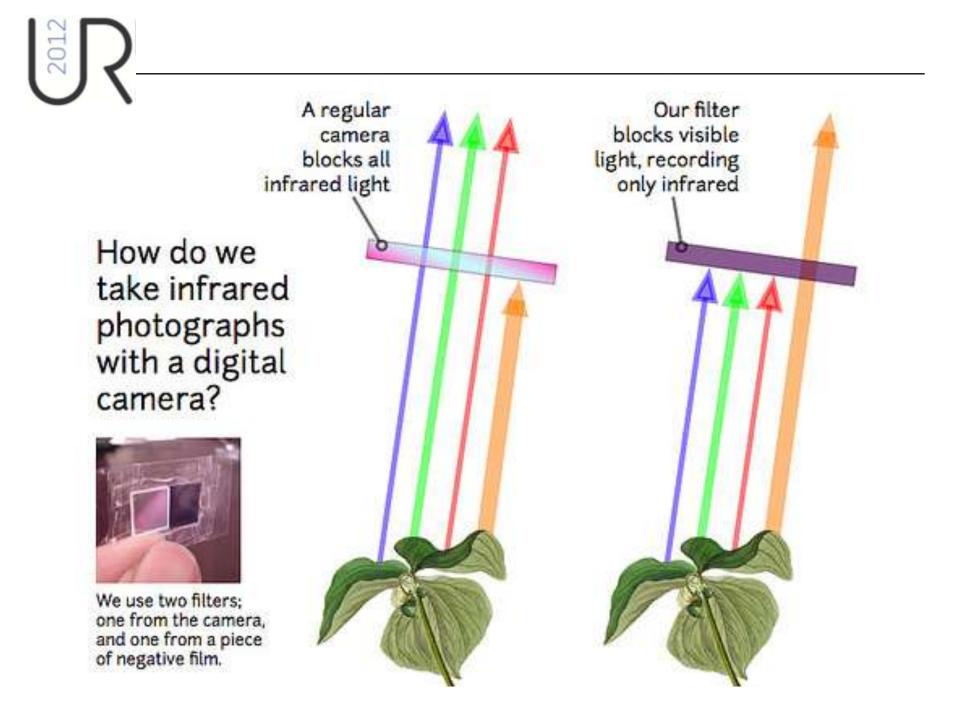




Grassroots Mapping Forum publiclaboratory.org/forum



II. New applications & techniques



R²⁰¹²







Gowanus Canal, Brooklyn, Summer 2011



Home » Archive » garfield county » Rifle, Colorado

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Formats:

TMS GeoTiff (449.0 mb) Google Maps JPG

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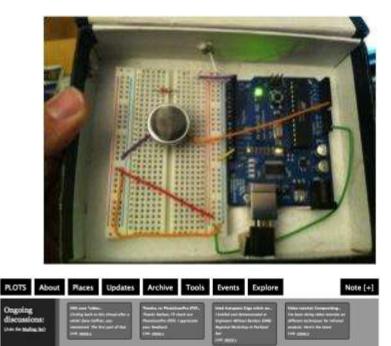
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ISC.









Languages

Hydrogen Sulfide Testing With Black and White Film

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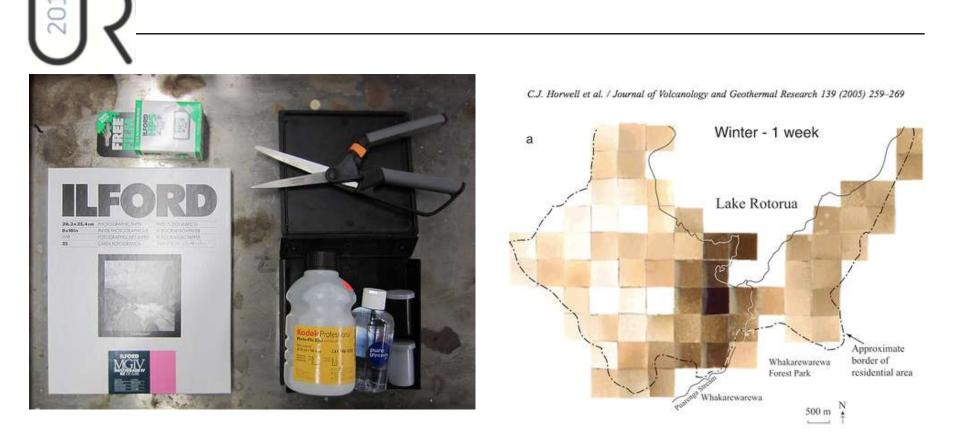
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The Grassroots Mapping Forum *

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Reports

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Silver halide screen for hydrogen sulfide



Excellent Geoscience **Fieldtest of Photostrip** H2S Detection

by: Sara 5 weeks 2 days ago

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Map of EPA National **Priorities List sites** with H2S issues by: Sara

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Map of New Mexico Natural Gas Wells in New Mexico and levels of Hydrogen Sulfide by: Sara

6 weeks 6 days ago This maps shows gas wells in the San Juan Basin in New

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FOOLING OR REDUCING THE **OUANTITY OF H2S** (hydrogen sulfide) IN WELL TESTS. by: Sara

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Tags: texas



Summary of Lionel Milberger's Copper Test

by: megan 12 weeks 2 days ago Focus of test is on residential ambient air from a fraction of a ppm to <100ppm Considerations... Read more »

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Project Participants so far:

- 1. Social Organizers in Texas, New Mexico and Ohio
- 2. Retired engineer and landowner,
- 3. Geomorphologists
- 4. Anthropologists
- 5. Design Students
- 6. Wetland researchers



Results: Container

Testing for

by: megan

#1

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