


my**o**bservatory

collaborative data environment

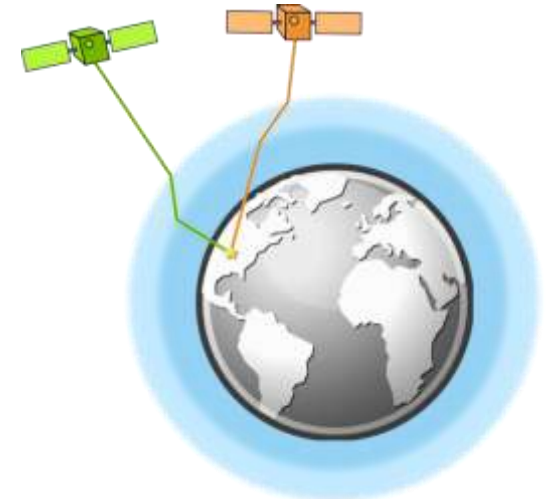
www.my-observatory.com



A cloud-based system to collect, store, analyze, and maintain data for agriculture, education, research, and any other field needing centralized, collaborative, quality-assured data management tools.

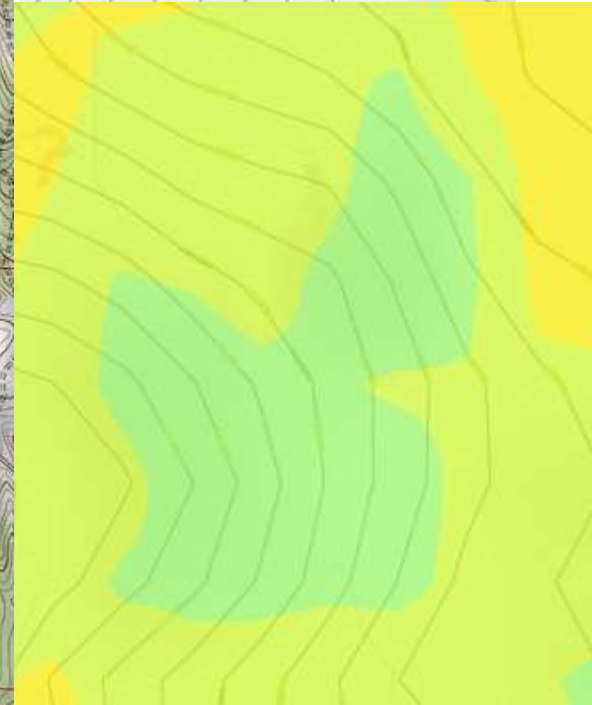
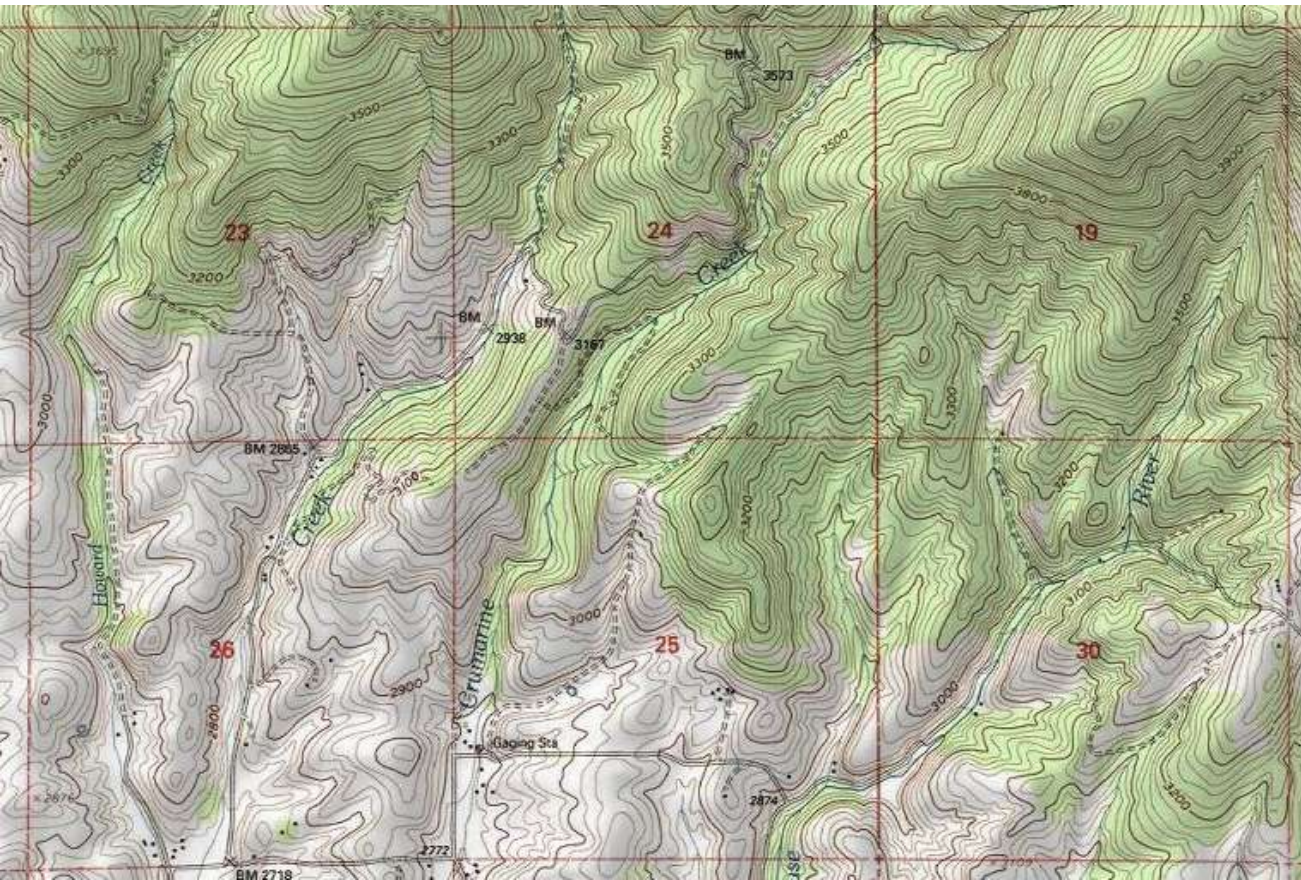
Get to know your environment...
...with your very first login

See your property
or area of interest
from above in
satellite view



Get to know your environment... ...with your very first login

A variety of reference and background data is available out of the box

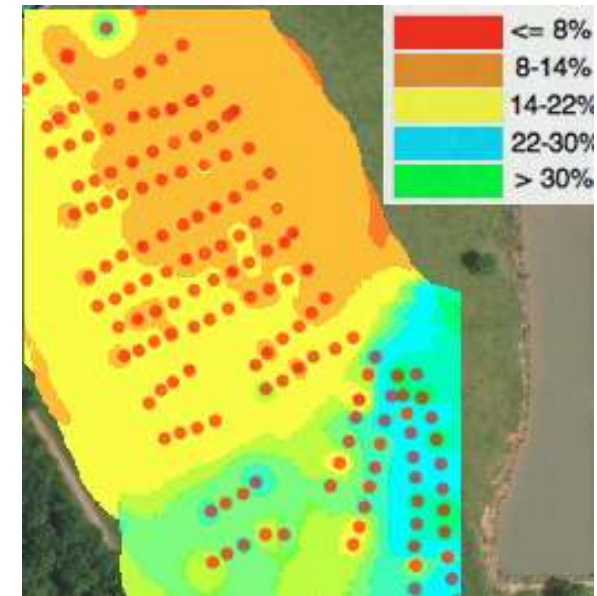
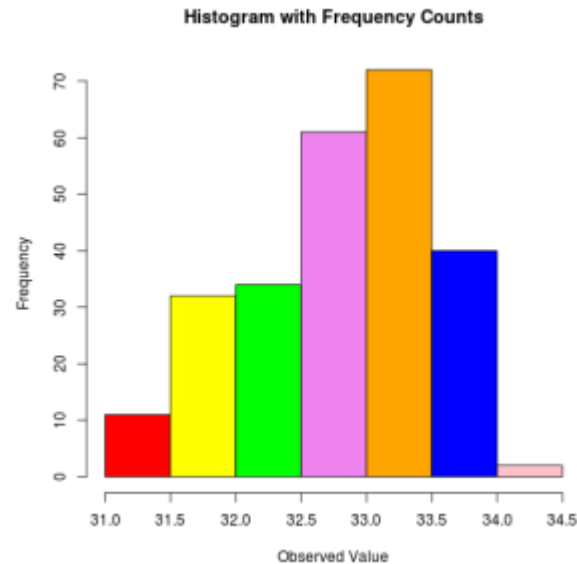
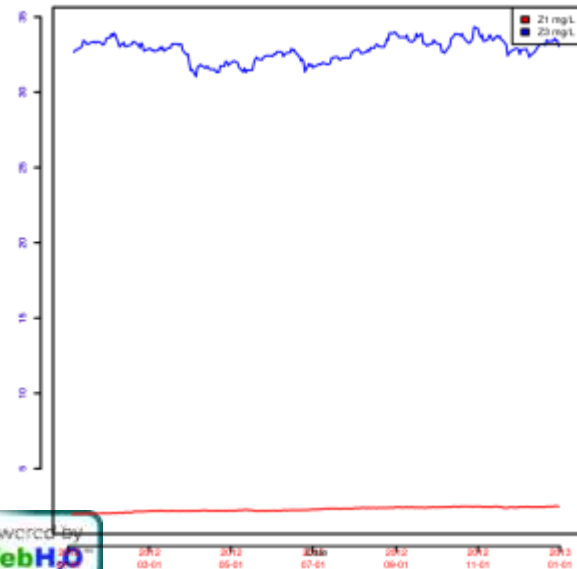
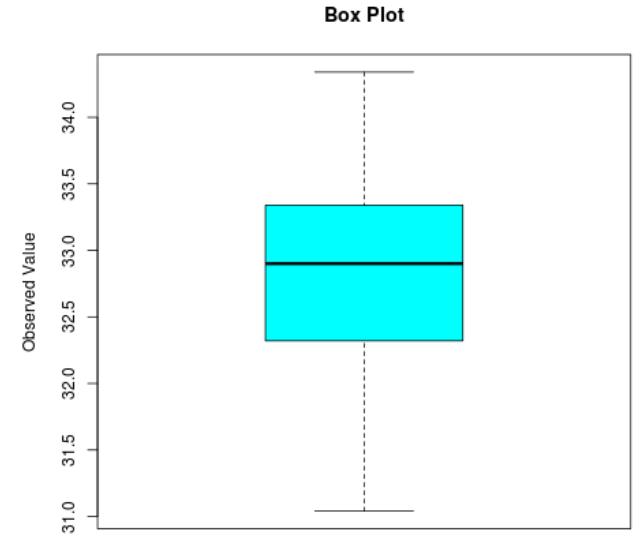
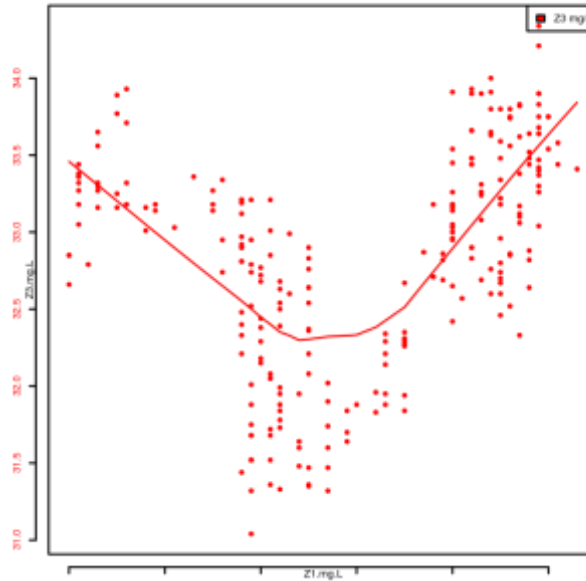
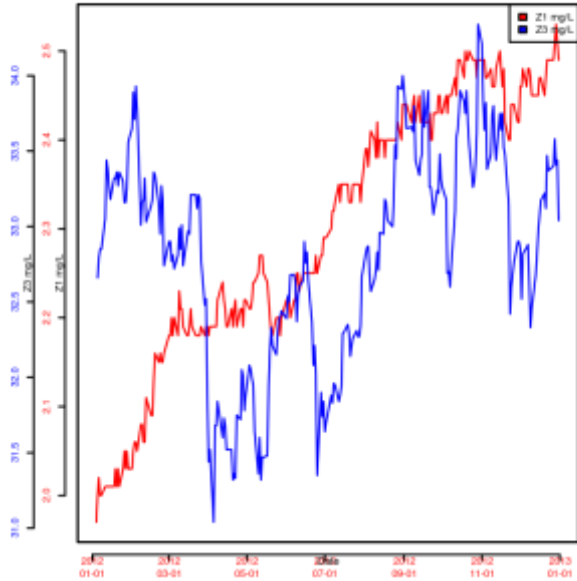


Draw shapes, outlines, and upload data to create an interactive map

Intuitive tools let you query map data

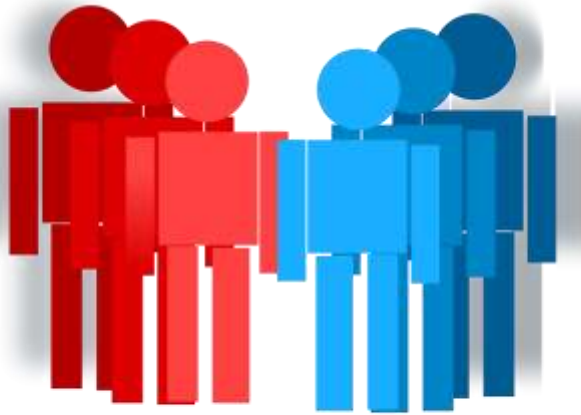


Powerful analysis tools



Detailed Access Control

Ability to restrict certain users to access and edit only certain data



Set up groups of users to easily assign access to particular project or study participants

Set up public accounts that can only view specific data without write permission



Scientific Data Acquisition

Metadata Records

Seamless QA Testing

Station Metadata

You may view and edit metadata here. When finished, please click Save to preserve your changes.

Summary: This data represents glucose measurements in milligrams per deciliter for a randomized sampling of 30 anonymous diabetic Type II patients over a ten-year period.

Author: Christopher Michaelis

Who created this data?: christopher.michaelis@webh2o.net

Who is the corresponding author and how can they be contacted?: christopher.michaelis@webh2o.net

Who prepared and uploaded this data?: Christopher Michaelis

Credits & Citations: Christopher Michaelis, Hans Böttiger, et al.

Usage Restrictions: No usage restrictions.

Processed Since: Values above 420 mg/dL have been removed as outliers.

Tags: Diabetes, Glucose

Relevant Dates: 2004-2014

Save Cancel

Quality Assurance Report

Sept 2003 to Jan 2014 data type *mg/dL* in dataset *Glucose Readings*
Showing Most Recent Run: 04/14/2014

Tests Performed

Name	Constraint Type	Required to Publish	Definition				
Require Numeric (Multi-Test)	Hard	Yes	<table border="1"> <thead> <tr> <th>Test Rule</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Require Numeric</td> <td>Yes</td> </tr> </tbody> </table>	Test Rule	Value	Require Numeric	Yes
Test Rule	Value						
Require Numeric	Yes						

Warnings and Errors

Test Violated	Hard or Soft Constraint?	Constraint Description	Sample Date/Time	Offending Value	Review Notes				
Require Numeric (Multi-Test)	Hard	<table border="1"> <thead> <tr> <th>Test Rule</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Require Numeric</td> <td>Yes</td> </tr> </tbody> </table>	Test Rule	Value	Require Numeric	Yes	2014-01-07 15:48:00	203v	
Test Rule	Value								
Require Numeric	Yes								

Activity Logging / Chain of Custody

- 2014-04-14 11:34 AM | Action by: Chris Michaelis
Edited record in edit station screen.
Original: Value=203; SampleTime=2014-01-07 15:48:00; Note=
New: Value=203v; SampleTime=2014-01-07 15:48:00; Note= | Dataset: [Glucose Readings](#) | Station: [Sept 2003 to Jan 2014](#)
- 2014-04-14 11:33 AM | Action by: Chris Michaelis
Metadata information updated. | Dataset: [Glucose Readings](#) | Station: [Sept 2003 to Jan 2014](#)
- 2014-04-14 11:24 AM | Action by: Chris Michaelis

Structured Data Collection

Create complex customized data collection forms and easily manage data submitted.

Data Collection Form Entry
Whitman County Shelter

Description / Instructions

The Whitman County shelter drop-off form for 2013.

Please answer all questions below. Required items are marked with an asterisk (*).

Animal Species Classification *

Identify the dog. Choose "Intact" if unsure if spayed/neutered.

Animal Name

The animal's name (if known).

Person Dropping Off

The person dropping off the animal. Provide badge number of animal control officers.

If this submission is associated with a location, please provide it here:

Get from GPS

Get from Street Address

Longitude:

-116.96882730000002

Latitude:

46.7294711

Submit Entry

Mobile Capable



Record data in the field with your mobile devices...

...even when offline



* Requires Apple iOS 6+ or Android 4+.

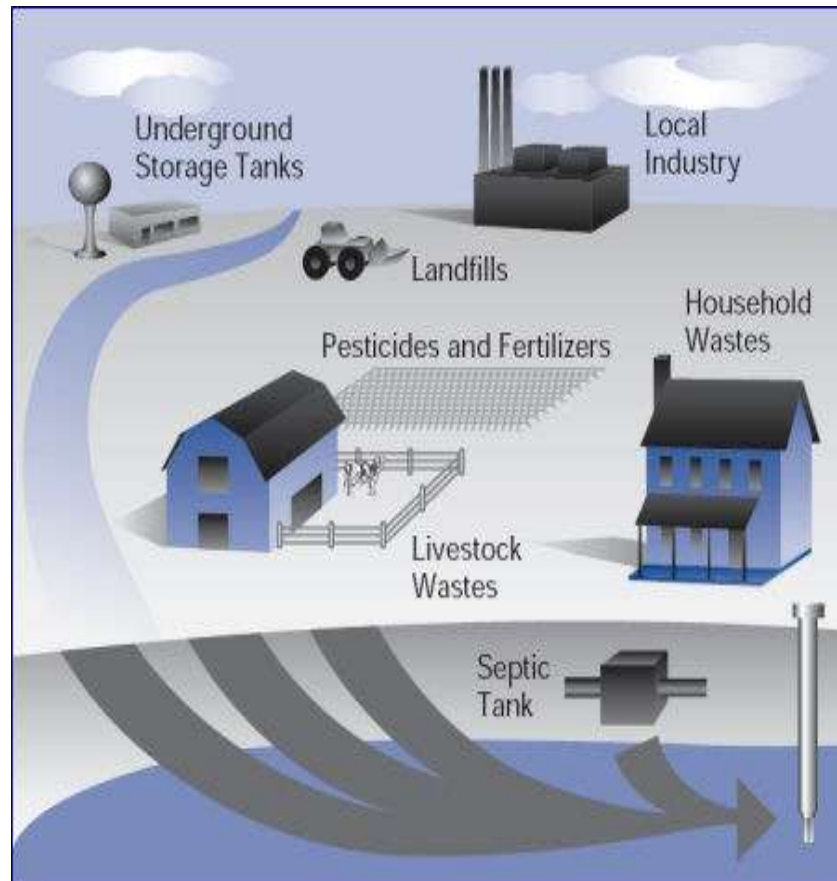
Risk Evolution

Making map-based modelling
dynamic

Study Area



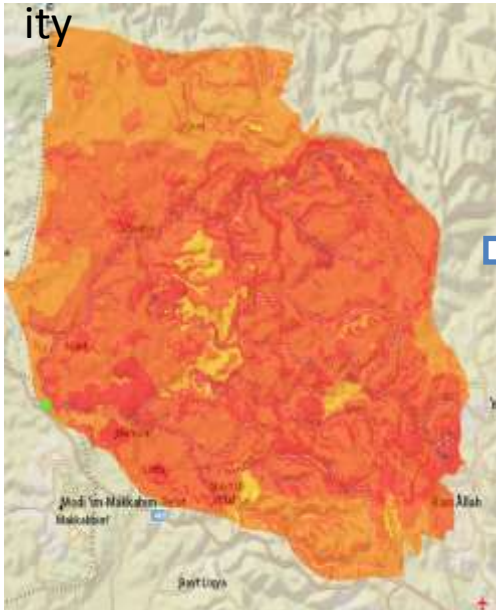
Groundwater risk assessment



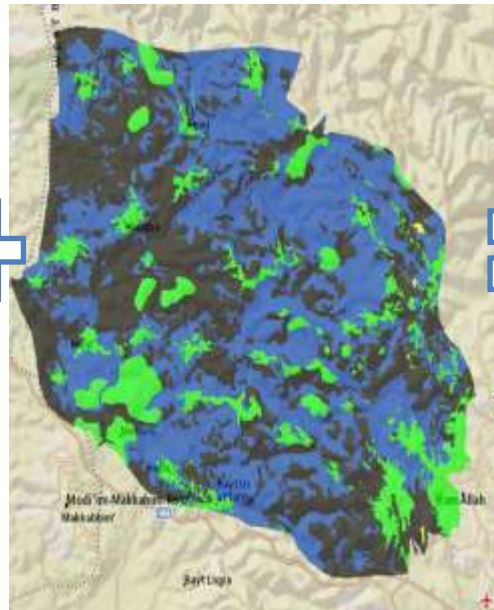
Typical “Static” Risk Analysis

01/01/2015

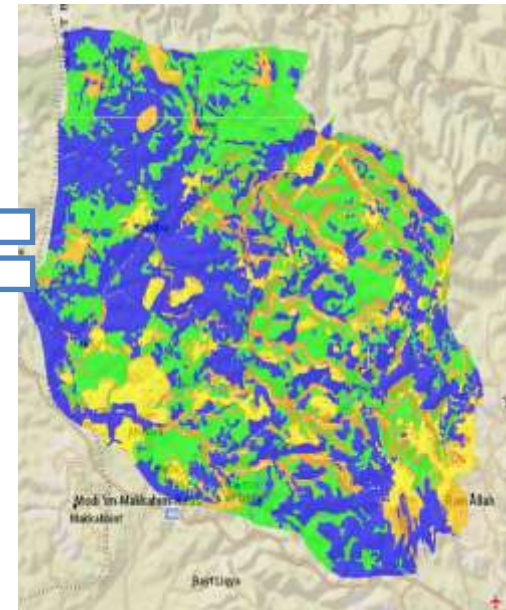
Vulnerability



Hazards



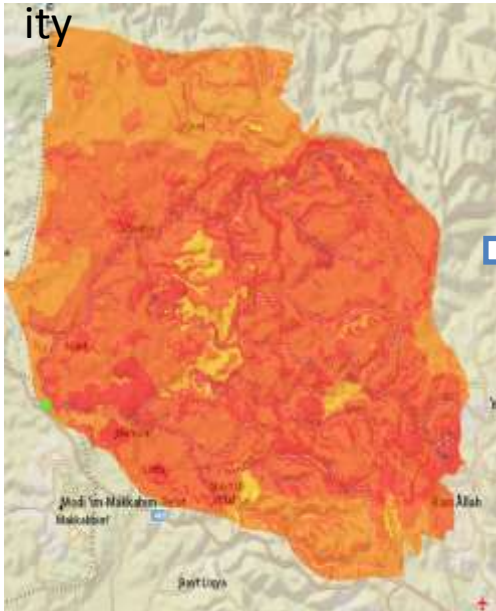
Risk



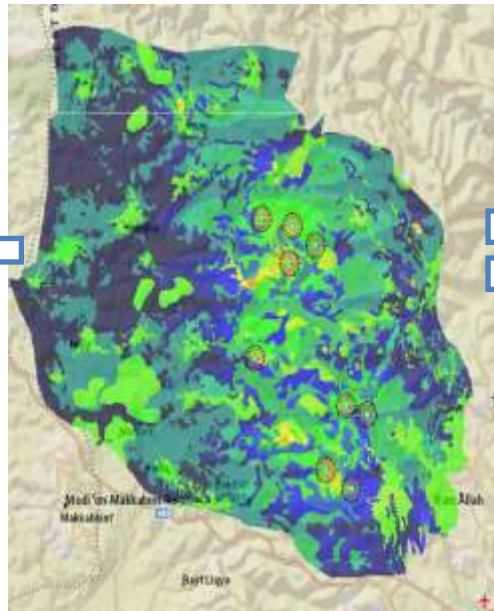
Dynamic Analysis

01/20/2015

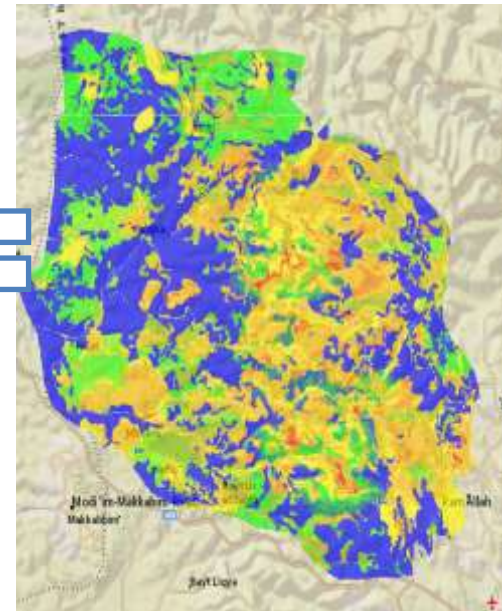
Vulnerability



Hazards



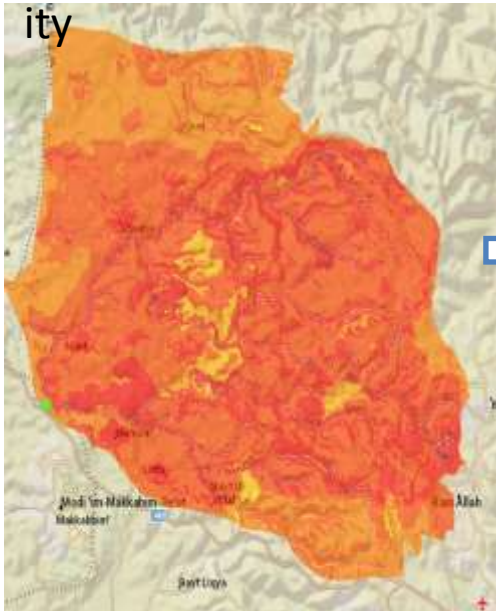
Risk



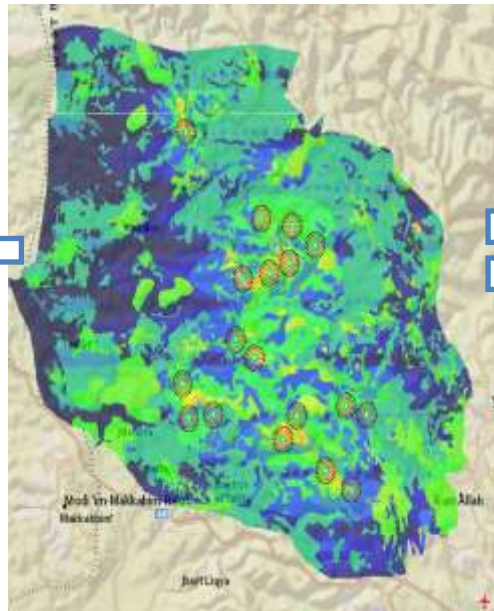
Dynamic Analysis

05/04/2015

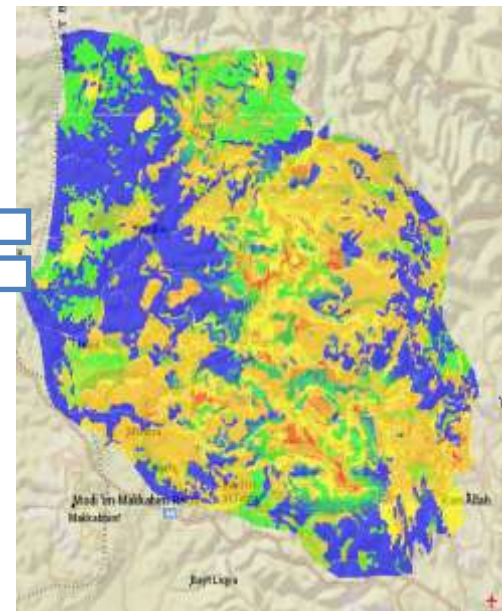
Vulnerability



Hazards



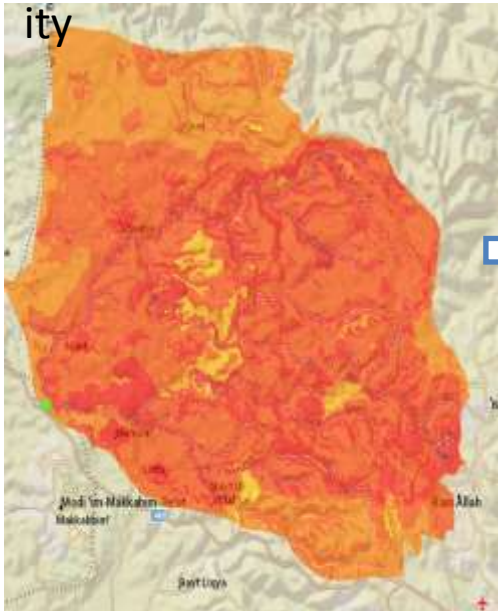
Risk



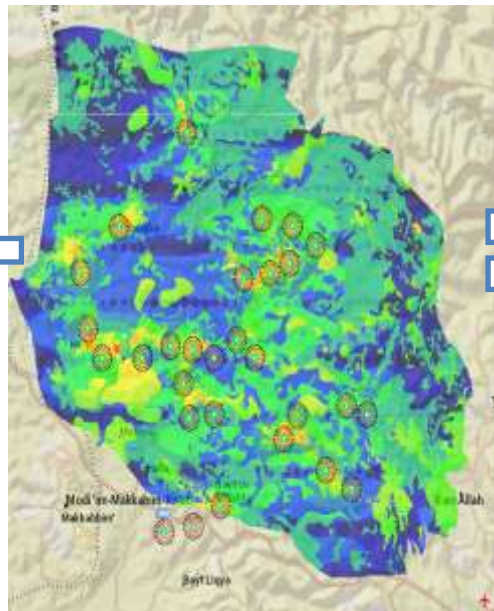
Dynamic Analysis

05/11/2015

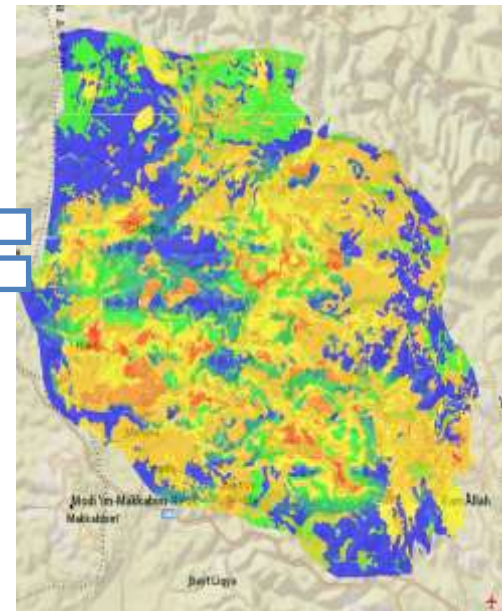
Vulnerability

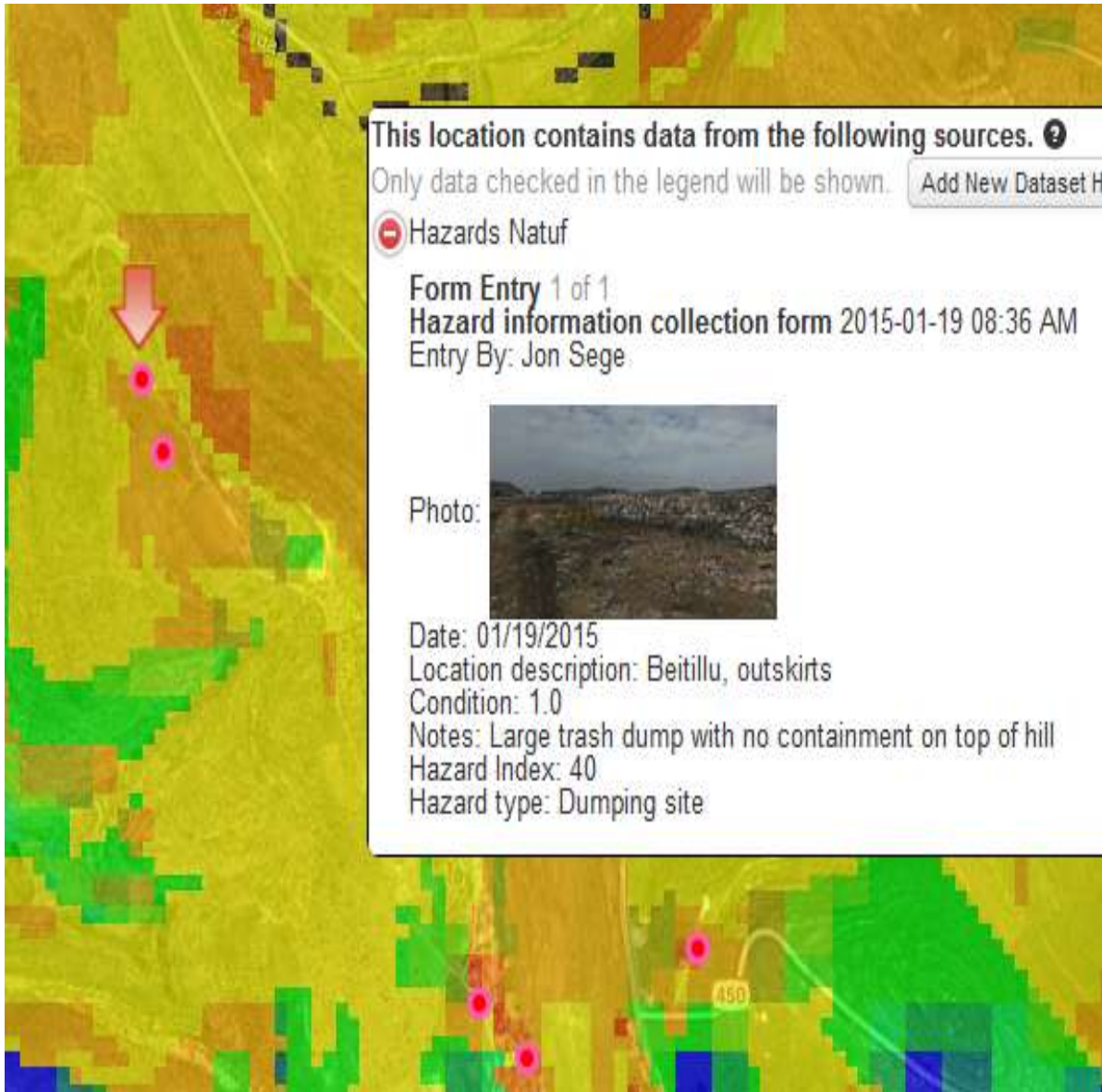


Hazards



Risk







Hazard information collection form
Please use this form to collect information while visiting hazard locations in the field

Date *
01/05/2015

What date was this information collected?

Hazard type *
Animal farm/pasture

What kind of hazard is this?

Location description *
em open

What is the name of the location where this hazard is found? Other description

Conditions *
1.0

1.0 - very bad condition; 0.95 - decent condition; 0.9 - good condition; 0.85 - very good condition

Notes

Any other notes or observations about the site or its condition

Photos
Choose File No file chosen
Max Upload Size 25MB
Please upload a photo of the site if possible

Longitude: -122.259061 (Automatic from GPS if available)
Latitude: 37.8499064

Date

Data is collected using mobile-optimized web sites and a native iOS application, feeding directly into myObservatory where data can be viewed on a map and analyzed in further detail, as shown in Figure 2. This enables data collection in the field, including while away from internet connectivity.



The process of data collection in the field via mobile web site to viewing it on a map.

Jon Singer
Nafiz, West Ramallah - Administrator

Dashboard View Data Management My Account Search Contact

Quality Assurance Report

8 data type "mg/L" in dataset "Water Quality"
 Showing Most Recent Run: 01/10/2016 11:43 PM
 Current Publication Status: Unsubmitted
 Current QA Status: Fail

Print Report E-Mail Report Run QA Again

Tests Performed

Name	Constraint Type	Required to Publish	Definition
Non-neg	Hard	Yes	Test Rate Value Forbidden Negatives: Yes

Warnings and Errors

Show 10 entries Search

Text Violated	Hard or Soft Constraint?	Constraint Description	Sample Date/Time	Offending Value	Review Notes	Actions
Non-neg	Hard	Test Rate Value Forbidden Negatives: Yes	2015-01-10 23:40:00	-10		Delete Record Ignore in Future Edit Record

Showing 1 to 1 of 1 entries

On-the-fly data collection in the field can often mean quality assurance is overlooked, including easy-to-make mistakes like missing a decimal point when reading instruments. Built-in quality assurance tools ensure that all data in the system is accurate and meaningful using custom data validation tests, as shown in Figure 4.

A quality assurance report showing a negative number that was flagged as being invalid.

For more information...



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for a trial account!