WELCOME TO THE NASA RECOVER DSS WEBINAR

The presentation will begin soon

GIS Training and Research Center
Pocatello, Idaho
http://giscenter.isu.edu

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Today's Schedule

RECOVER webinar
24-May-16
(all times shown in mountain time (MT))

TIME	AGENDA ITEM
11:00am	Welcome
11:05am	Introduction to RECOVER DSS (PPT)
11:20am	Demonstration: RECOVER self-serve Generator
11:30am	Q&A
11:40am	Demonstration: RECOVER DSS web map
11:55am	Q&A
NOON	END

If you have additional questions following the webinar, feel free to send those questions to webekeit@isu.edu
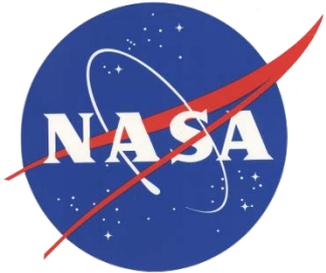
Notes…

- Please mute your telephone or microphone

- Remember to un-mute your audio when you asking a question

- Following the webinar, you will receive a link to the recorded video and a PDF tutorial

NASA RECOVER:
Wildfire Decision Support System

Keith T. Weber[1], GISP

John Schnase[2], Mark Carroll[2], Jeff May[1], Ryan Howerton[1], Kindra Serr[1], Roger Gill[2], and Maggie Wooten[2]
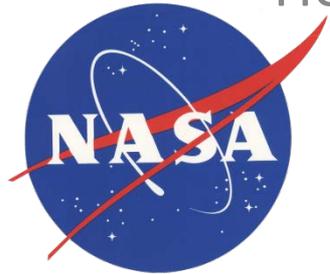
1- ISU GIS TReC
2- NASA Goddard Space Flight Center

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What is RECOVER?

- RECOVER: Rehabilitation Capability Convergence for Ecosystem Recovery

- NASA Applied Sciences Program sponsored project

RECOVER is a NASA Applied Sciences sponsored project. K. T. Weber (PI), J. Schnase (Co-PI) and M. Carroll (Co-PI), Goddard Space Flight Center

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What is RECOVER?

- Customer-driven, Customer-centric*

- Decision Support System (DSS)
  - Rapid assembly of site-specific data
  - Delivered in customized GIS analysis environment
  - Wildfire focus

* Our "customer" is any wildfire management agency (BLM, NPS, USFS, etc.)

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Benefits of RECOVER

Leveraging Common Computing Architecture

File Based — Database Centric — Server Centric — Web Centric — Web GIS

- Works seamlessly across all devices
- Reduces need for custom applications
- Platform for integration with other business systems
- Cross organizational collaboration
- Ready to use content and services
- Content management system

# How Does it Work?

- Step 1: Ignition

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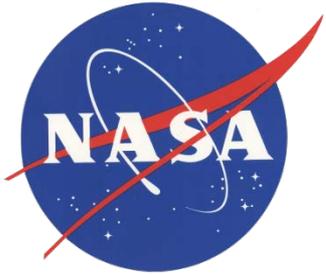
How Does it Work?

- Step 2: Generate the RECOVER Web Map
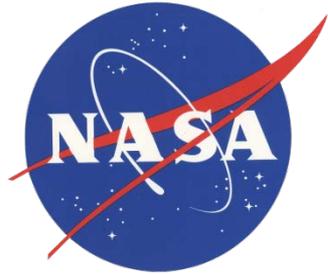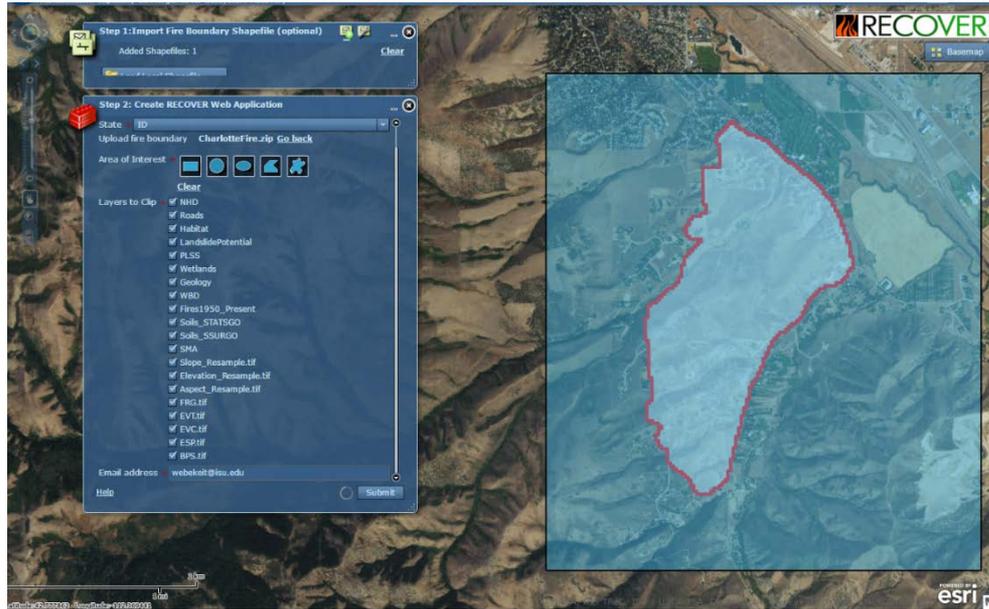
What's Happening

- Our RECOVER server is…
  - Clipping 21 base layers (raster and vector) to the AOI polygon
  - Assembling these layers into a Map Service with uniform symbology/colormaps and naming
  - Creating fire-specific reports

Naming convention of RECOVER Base Layer data

The following list describes the RECOVER base layers available to our partners along with the standard naming convention applied to the web services hosted at ISU's GIS TReC (please note the exact name including capitalization and the use of underscores).

Geology
Habitat
LandslidePotential
NHD
PLSS
Roads
SMA
Soils_SSURGO
Soils_STATSGO
Soils_STATSGO_KFactor
WatershedsWBD
Wetlands

HistoricFires
HistoricFires_PastDecade
FRG_FireRegimeGroup

Past fire datasets

BPS_BioPhysicalSetting
ESP_EnvironmentalSitePotential
EVC_ExistingVegetationCover
EVT_ExistingVegetationType

Vegetation datasets

Elevation
Aspect
Hillshade
Slope_degree
Slope_percent
SlopesGTE30deg

Topography datasets

* The spatial reference system for these data is USA Contiguous Albers Equal Area Conic USGS version, NAD83, WKID: 102039

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Data Architecture

- RECOVER covers the Western US

- Esri ArcGIS 10.3.1
  - File Geodatabase
  - Vector and raster data
  - Automated Map Services

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Questions?
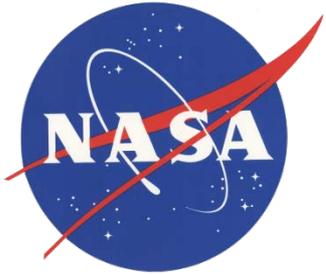
How Does it Work?

- Step 3: Check your E-mail

Fri 1/22/2016 9:34 AM

recoverdss@gmail.com

Your RECOVER web map

To   webekeit@isu.edu

Hello,

Thank you for requesting a NASA RECOVER web map for this wildfire. We sincerely hope this decision support system will be useful to you as you manage this fire. The URL to access the web map is:

http://recover.giscenter.isu.edu/recover3/CharlotteFire_ID

RECOVER is a powerful tool with many capabilities. To learn how to make better use of the RECOVER web map please take a few minutes to view a demo of its capabilities by visiting our YouTube site at https://www.youtube.co

If you need a refresh of the web map because new data is available or the fire perimeter has changed please let us know and we can typically produce a new version for you within 15 minutes. If you would like to use these same you can do so by connecting to our RECOVER web services.

Instructions to leverage this capability can be found by visiting http://giscenter.isu.edu/research/Techpg/nasa_RECOVER/pdf/RECOVER_WebServices.pdf

Let's visit our new web map
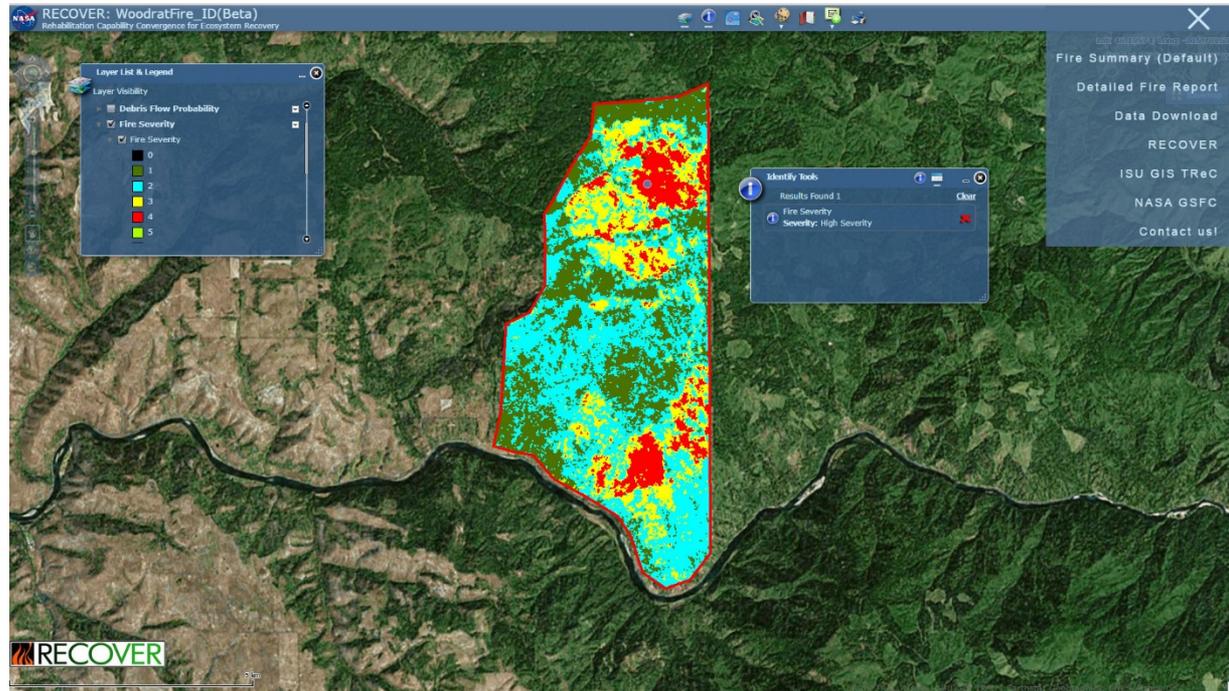
Additional data requests

- Fire-affected Vegetation (dNBR)
- Debris-flow probability
  - http://naip.giscenter.isu.edu/recover2/powerhousefire/
- NDVI vegetation anomaly for your fire area
  - 16-day MODIS NDVI-composite imagery
  - Long-term average NDVI (2001-present)
 - Current fire season compared against long-term trend

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NDVI Anomaly

- Can be requested when using the Generator

- OR by contacting ISU's GIS TReC at a later time

 - RECOVERdss@gmail.com

  - giscenter@isu.edu

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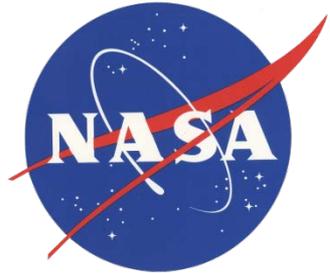
What you get…

Map layer
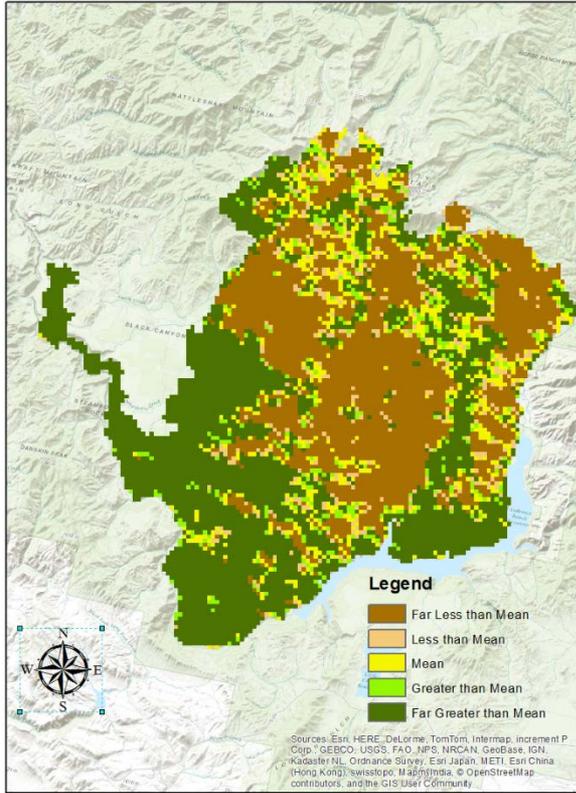
Charts
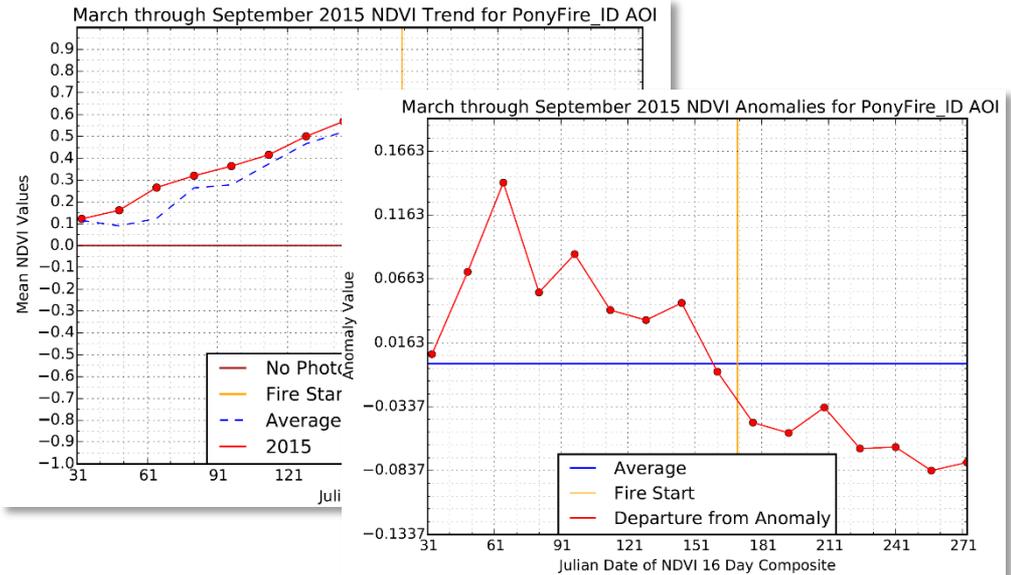
Questions?

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