The RECOVER Flex-Based Web Map Client

George Haskett

Research Assistant, ISU

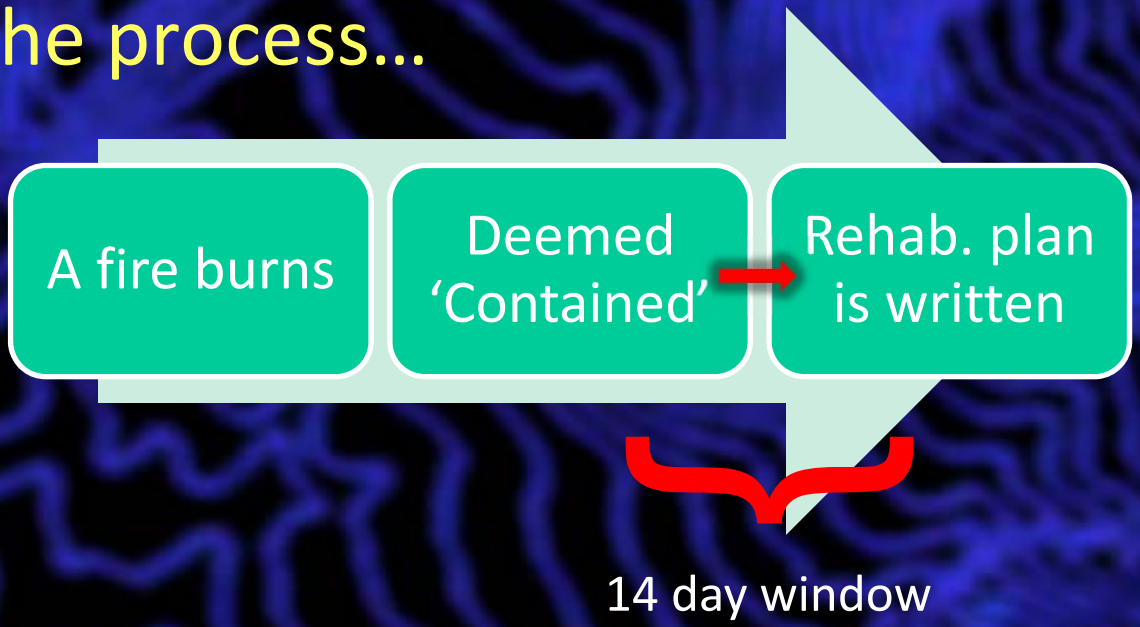
Keith Weber, Tess Gardner

John Schnase, Roger Gill, Mark Carroll

Akiko Elders, and Molly Brown

Post-fire Rehab. Planning

- The process…



Primary Goal

- To streamline the rehab planning process
- By providing:
  - Unified and efficient analytical tools
  - Collection of applicable up to date data
  - One stop solution (data & client)
- Resulting in a better informed decision

Solution

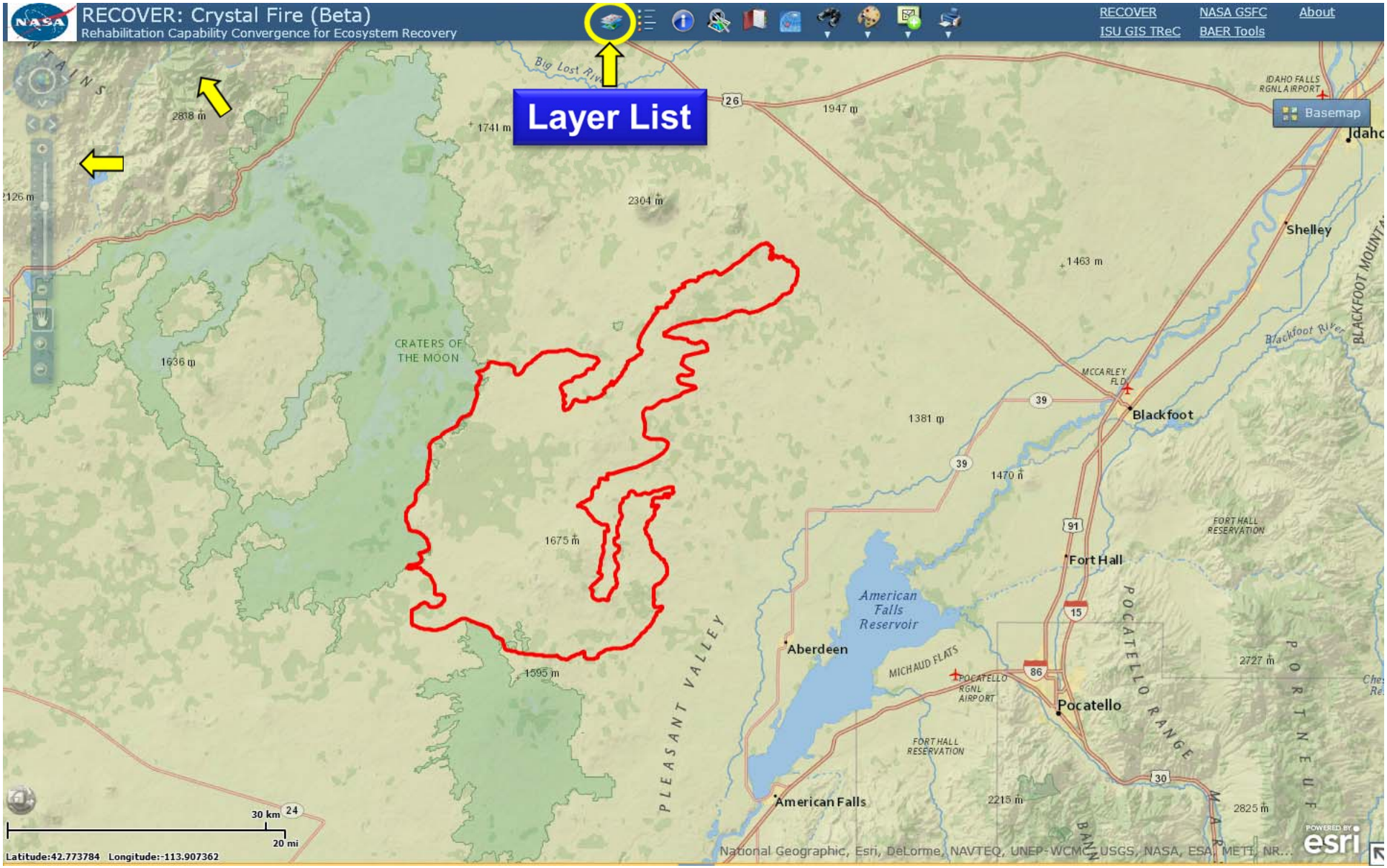
- Event driven application
- Web-based interactive mapping client
- Client application is developed using Adobe Flex
- Consumes data from RECOVER iRODS server
- Ability to processes custom weighted values
  - Via the Multi-Criteria Evaluation (MCE) widget
- Thus allowing for a more efficient analysis

Data Flow

Created Consumed Interacted

Platform - Why Flex?

- Simple, yet highly functional platform
- ***Minimal*** download and installation requirements
  - Requires Adobe Flash plugin
- Low construction and maintenance costs
  - Eliminate additional out of office programming fees
  - Designed and maintained in house by graduate students
- Well established community of developers
- Large selection of pre-designed and enhanced widgets
- Ability to design custom widgets with little to no prior experience


RECOVER: Crystal Fire (Beta)
Rehabilitation Capability Convergence for Ecosystem Recovery
RECOVER
ISU GIS TReC
NASA GSFC
BAER Tools
About
Layer List
Basemap
Big Lost River
IDAHO FALLS RGNL AIRPORT
Idaho
Shelley
Blackfoot
Blackfoot River
BLACKFOOT MOUNTAINS
MCCARLEY FLD
CRATERS OF THE MOON
Fort Hall
FORT HALL RESERVATION
American Falls Reservoir
Aberdeen
MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
BANNOCK
2818 m
1741 m
1947 m
2304 m
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1636 m
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1470 m
1675 m
1595 m
2727 m
2215 m
2825 m
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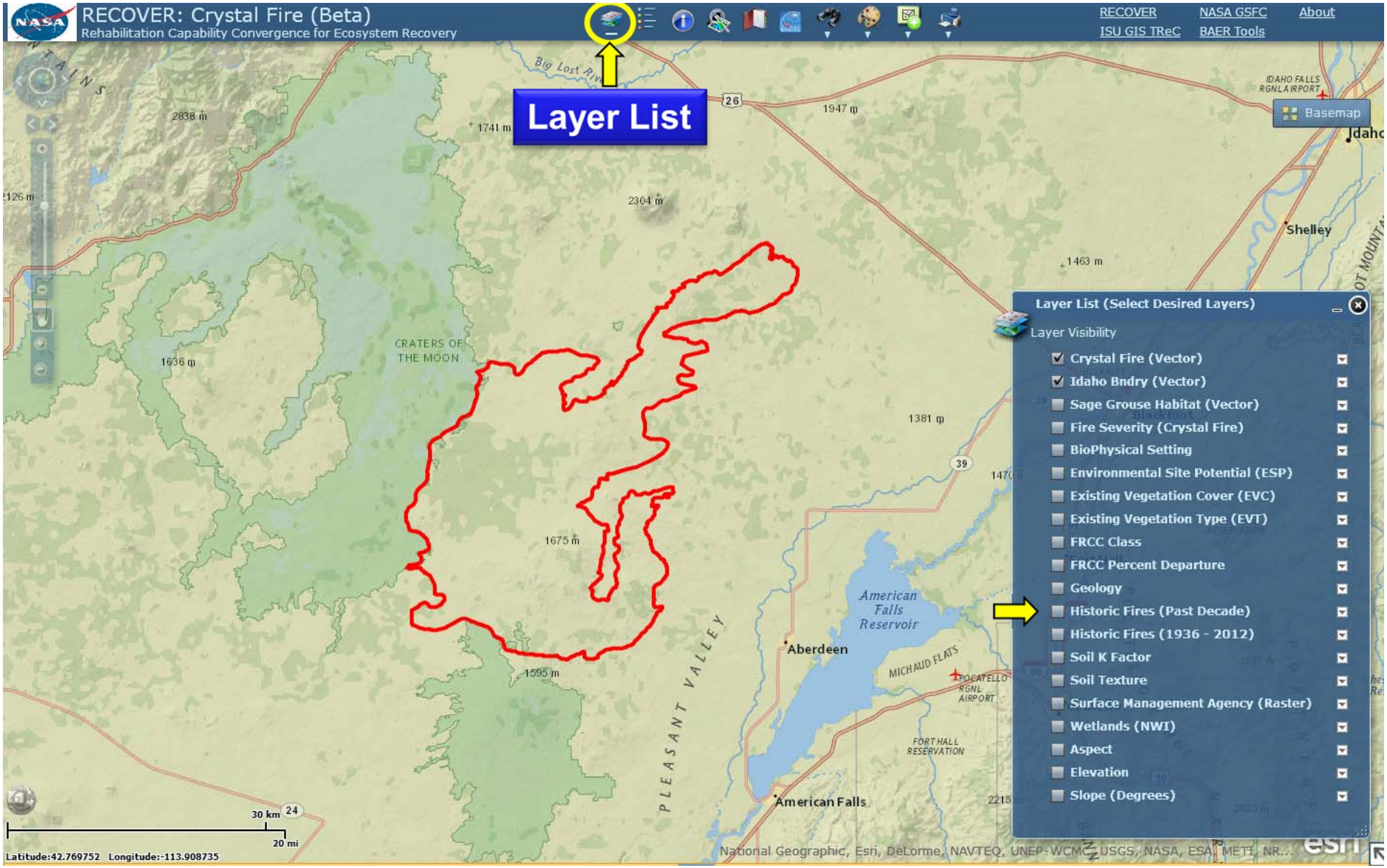
20 mi
Latitude:42.773784 Longitude:-113.907362
National Geographic, Esri, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, ESA, METI, NR...
esri


RECOVER: Crystal Fire (Beta)
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NASA GSFC
About
ISU GIS TReC
BAER Tools
Layer List
Basemap
Layer List (Select Desired Layers)
Layer Visibility
Crystal Fire (Vector)
Idaho Bndry (Vector)
Sage Grouse Habitat (Vector)
Fire Severity (Crystal Fire)
BioPhysical Setting
Environmental Site Potential (ESP)
Existing Vegetation Cover (EVC)
Existing Vegetation Type (EVT)
FRCC Class
FRCC Percent Departure
Geology
Historic Fires (Past Decade)
Historic Fires (1936 - 2012)
Soil K Factor
Soil Texture
Surface Management Agency (Raster)
Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
CRATERS OF THE MOON
PLEASANT VALLEY
American Falls Reservoir
Aberdeen
American Falls
Shelley
MICHAUD FLATS
FORT HALL RESERVATION
IDAHO FALLS RGNL AIRPORT
POCATELLO RGNL AIRPORT
Big Lost River
2838 m
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20 mi
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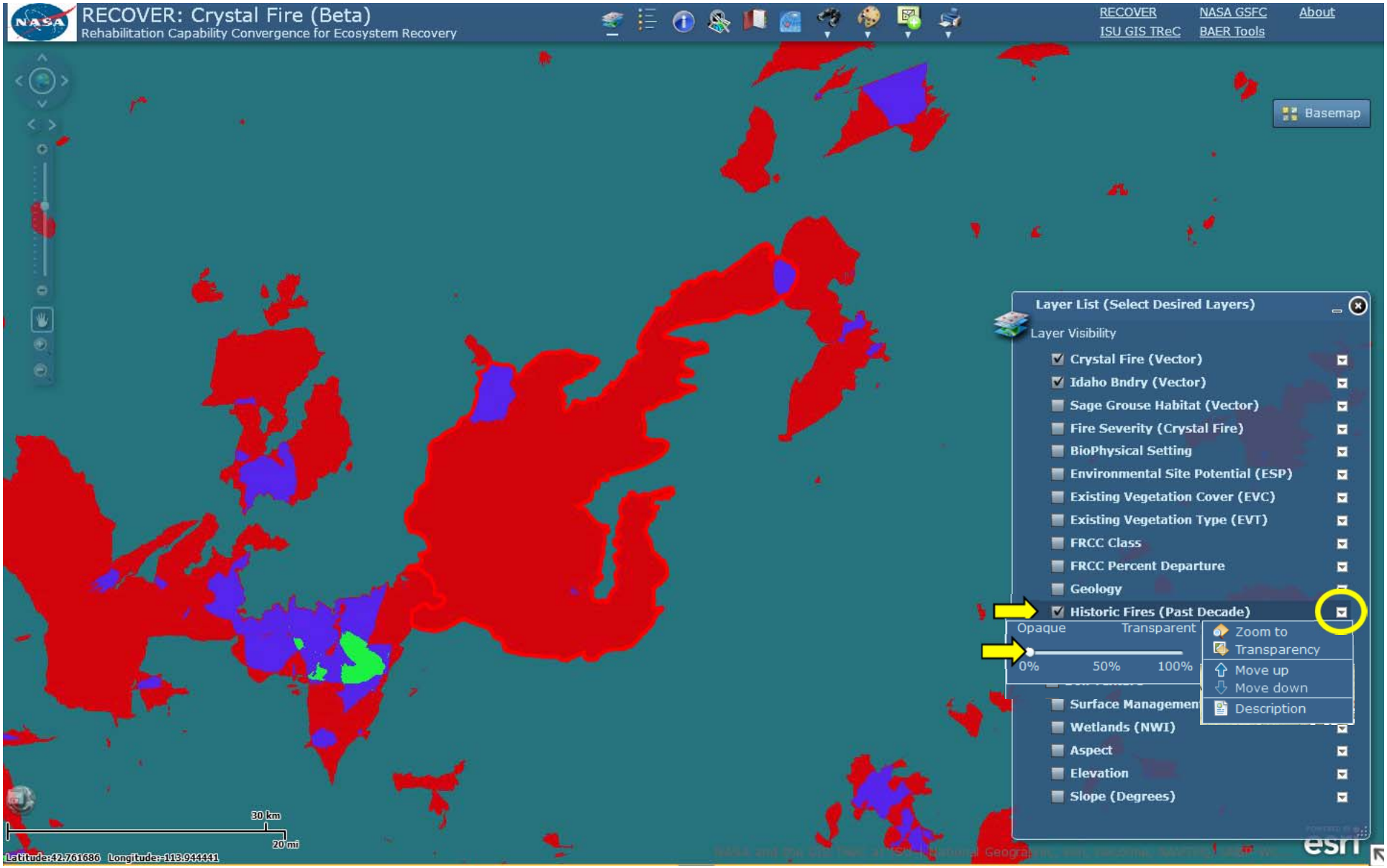
esri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FRCC Class
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Geology
Historic Fires (Past Decade)
Opaque
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0%
50%
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Zoom to
Transparency
Move up
Move down
Description
Surface Management
Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
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20 mi
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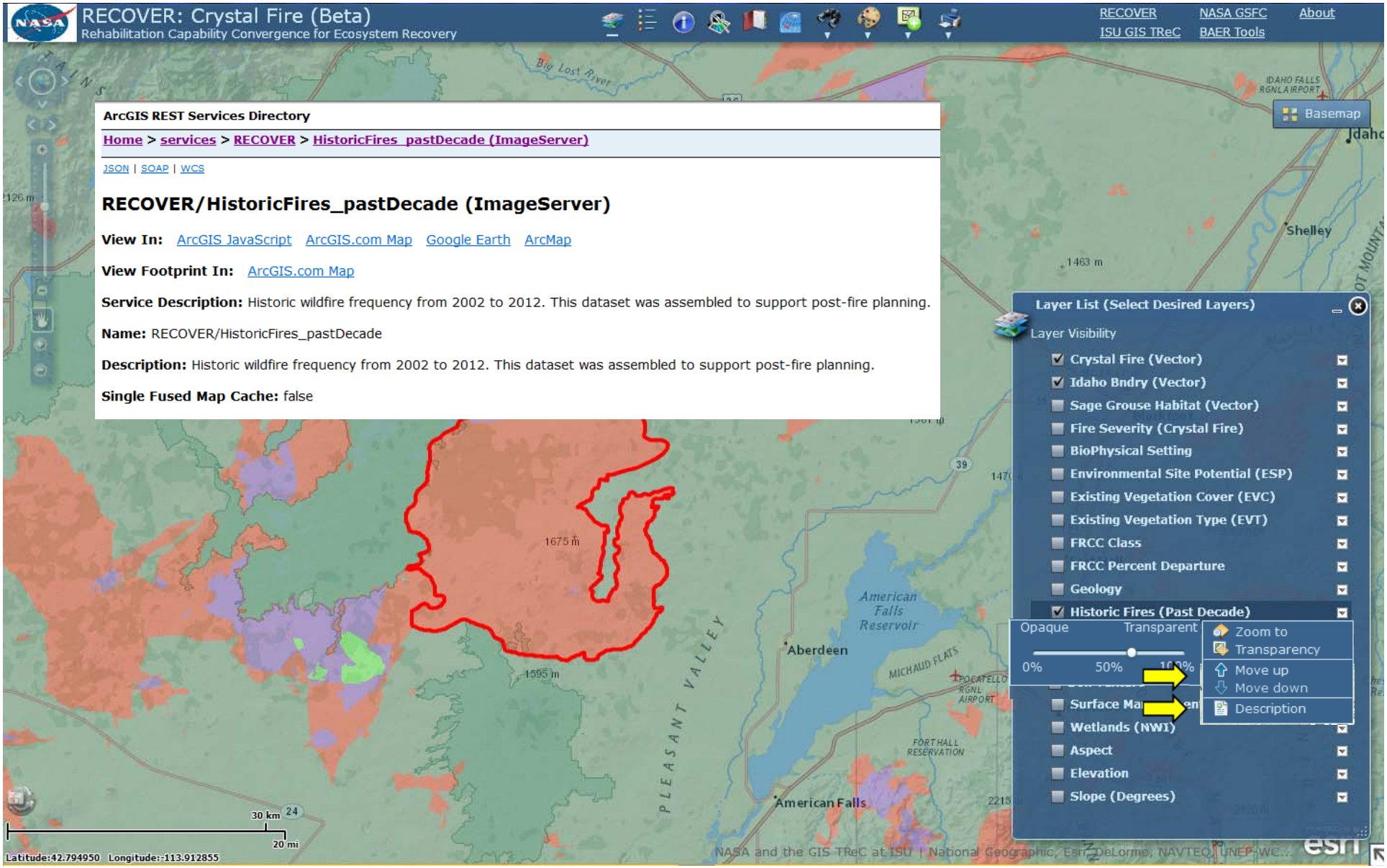
esri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Rehabilitation Capability Convergence for Ecosystem Recovery
RECOVER
ISU GIS TReC
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About
ArcGIS REST Services Directory
Home > services > RECOVER > HistoricFires_pastDecade (ImageServer)
JSON | SOAP | WCS
RECOVER/HistoricFires_pastDecade (ImageServer)
View In: ArcGIS JavaScript ArcGIS.com Map Google Earth ArcMap
View Footprint In: ArcGIS.com Map
Service Description: Historic wildfire frequency from 2002 to 2012. This dataset was assembled to support post-fire planning.
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Aberdeen
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American Falls Reservoir
PLEASANT VALLEY
MICHAUD FLATS
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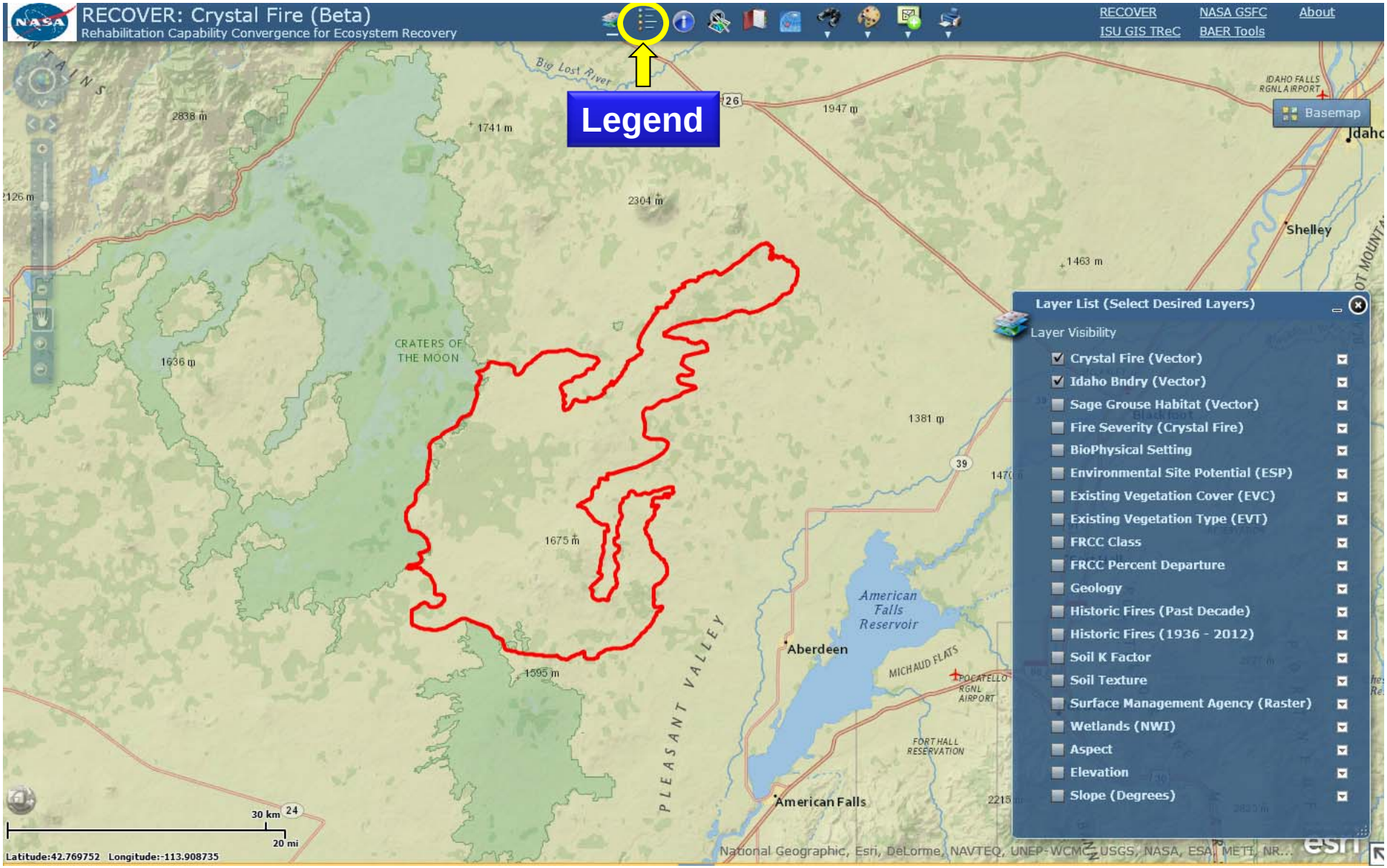
NASA and the GIS TReC at ISU | National Geographic, Esri, DeLorme, NAVTEQ, UNEP-WC...
esri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IDAHO FALLS RGNL AIRPORT
POCATELLO RGNL AIRPORT
2838 m
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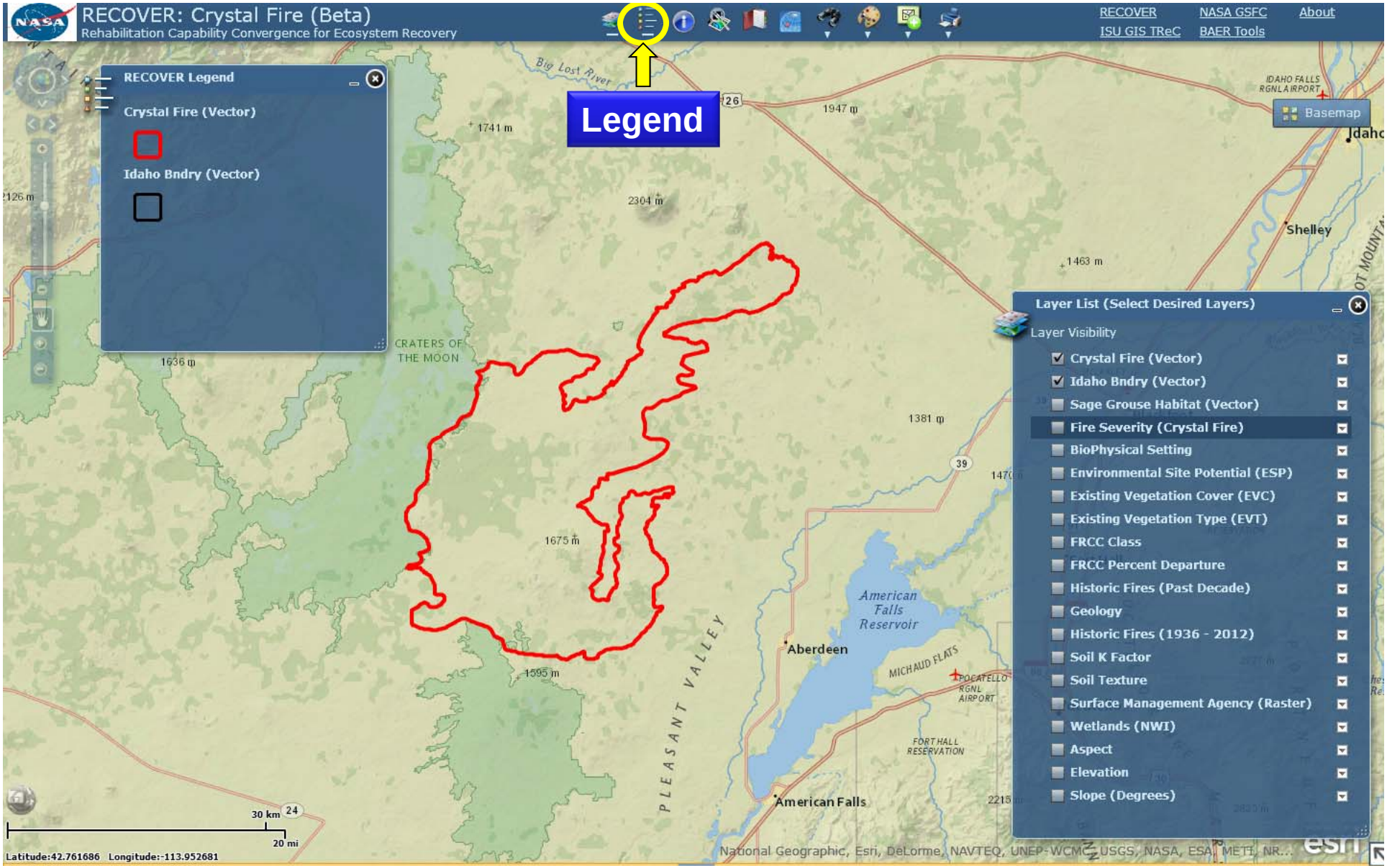
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Shelley
IDAHO FALLS RGNL AIRPORT
POCATELLO RGNL AIRPORT
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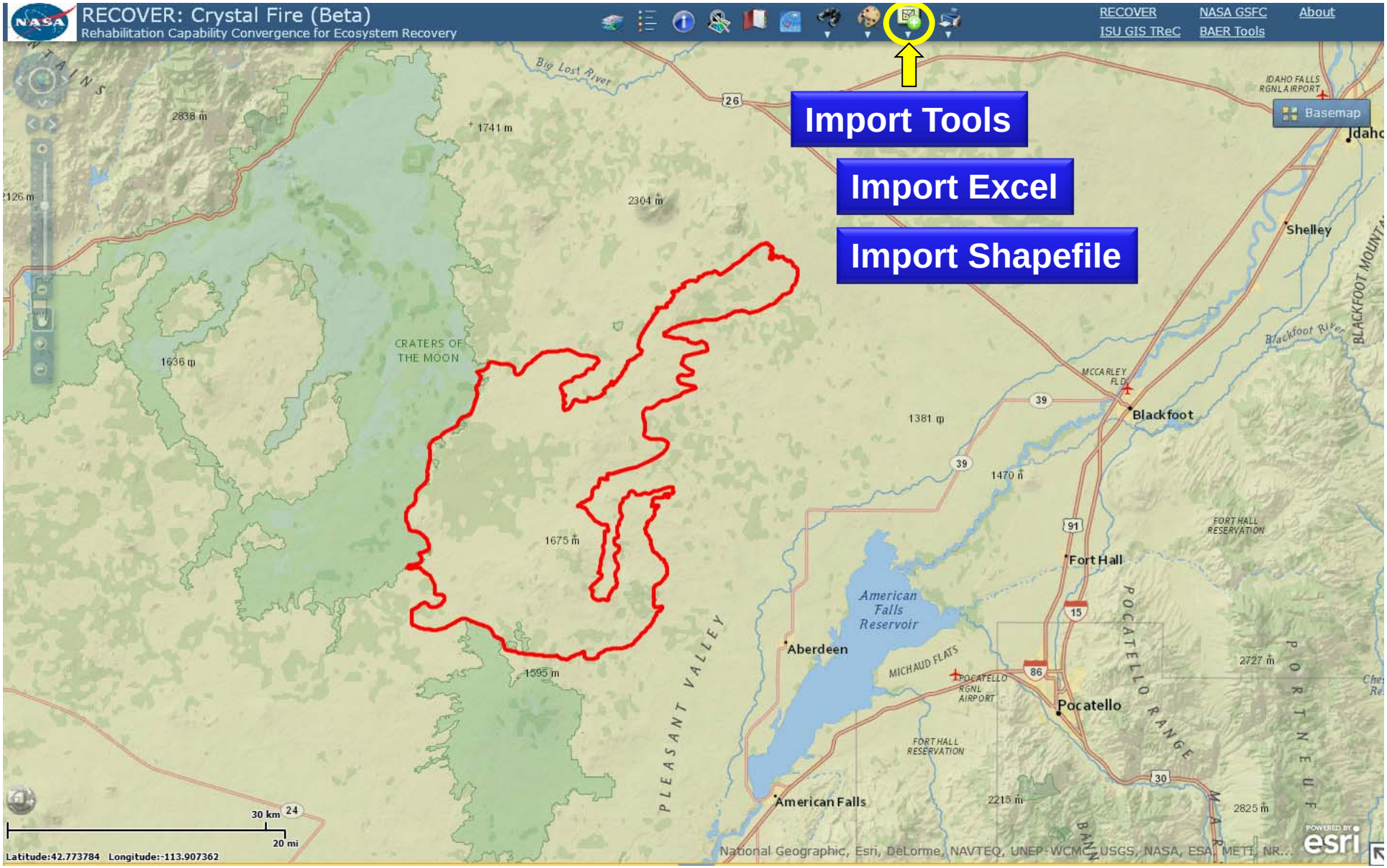
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Import Excel
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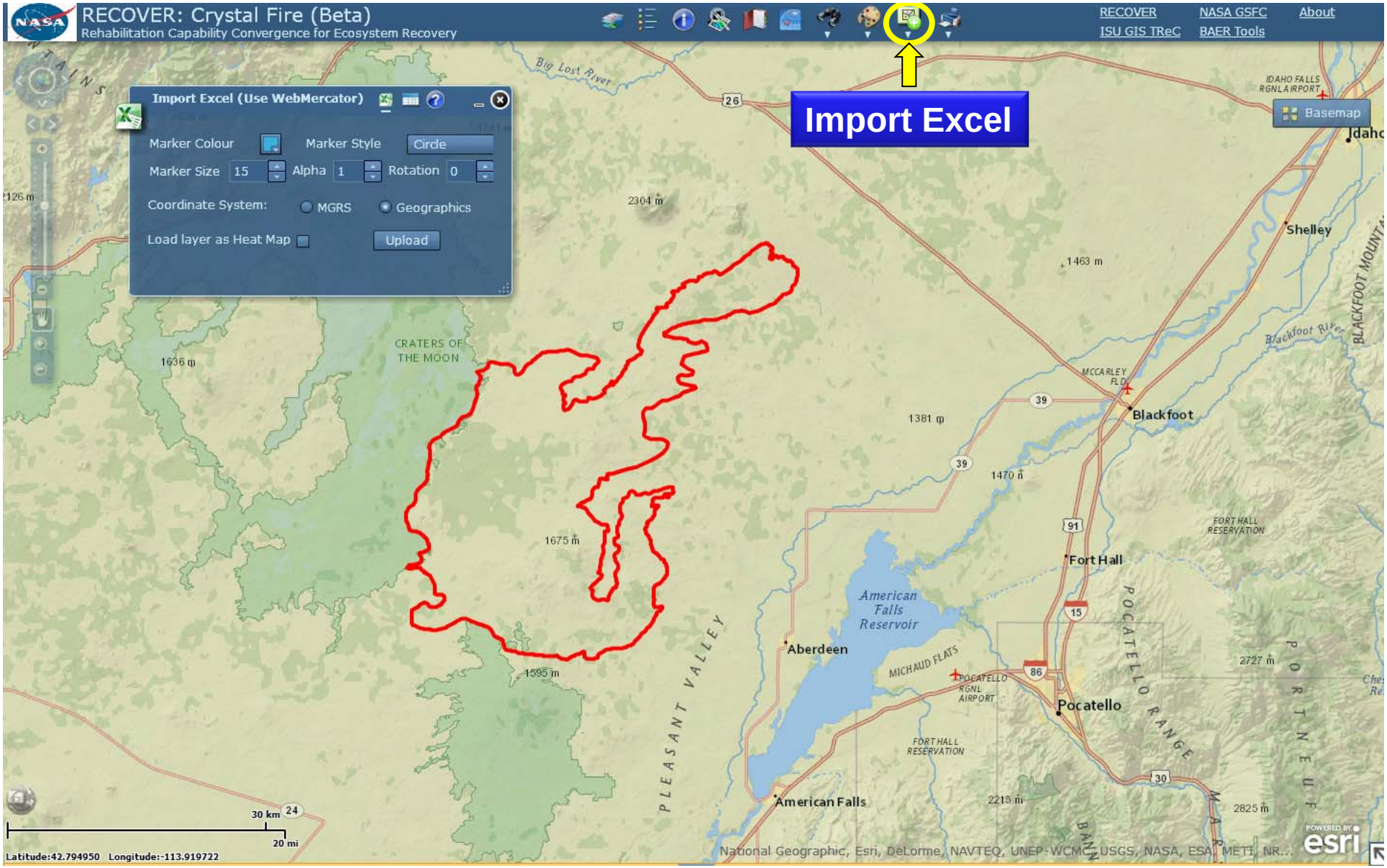
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Import Excel (Use WebMercator)
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Geographics
Load layer as Heat Map
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Big Lost River
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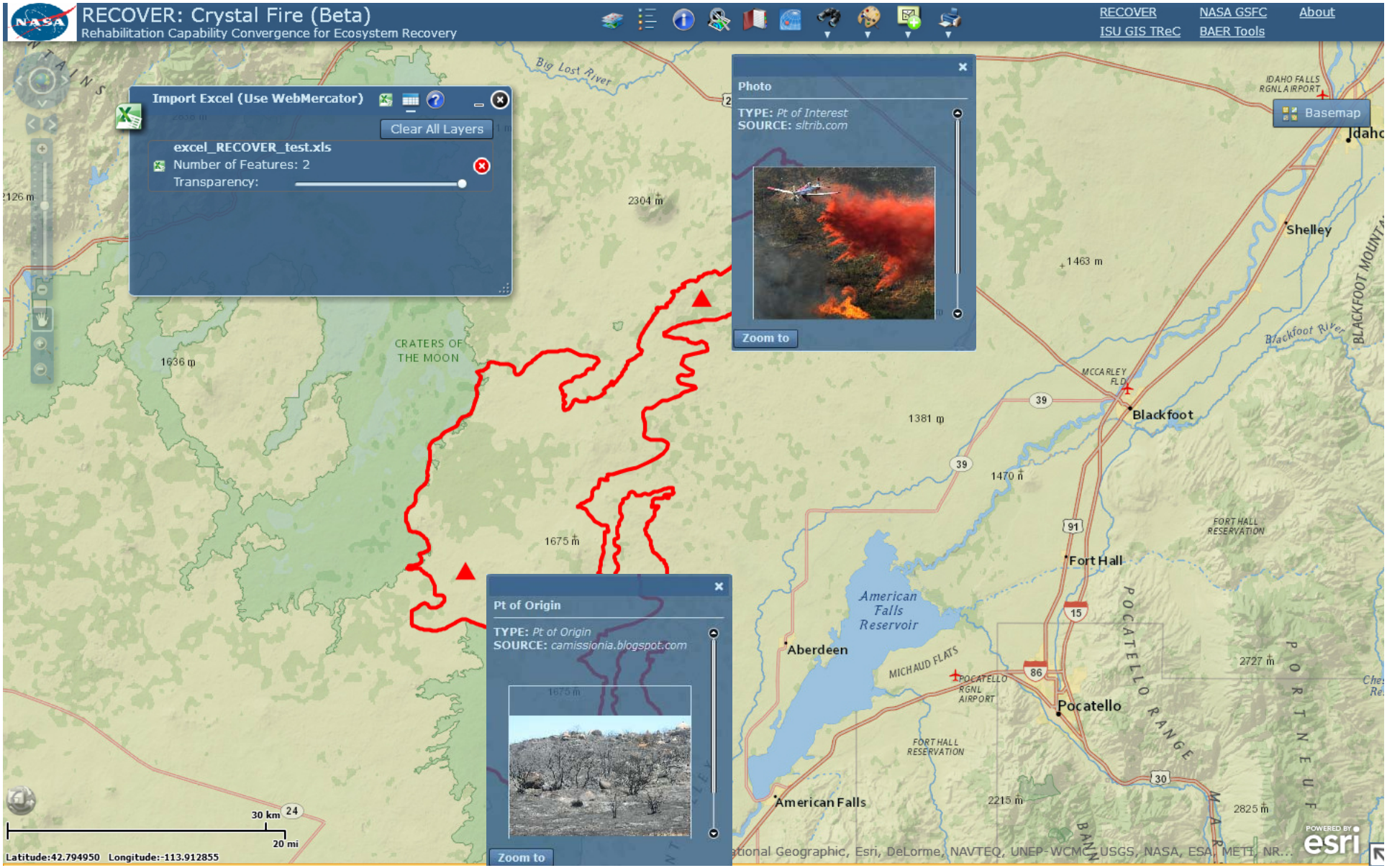
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Zoom to
Pt of Origin
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Zoom to
Basemap
Big Lost River
CRATERS OF THE MOON
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American Falls
Aberdeen
Pocatello
American Falls Reservoir
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POCATELLO RGNL AIRPORT
IDAHO FALLS RGNL AIRPORT
MCCARLEY FLD
FORT HALL RESERVATION
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Blackfoot River
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PORTNEUF
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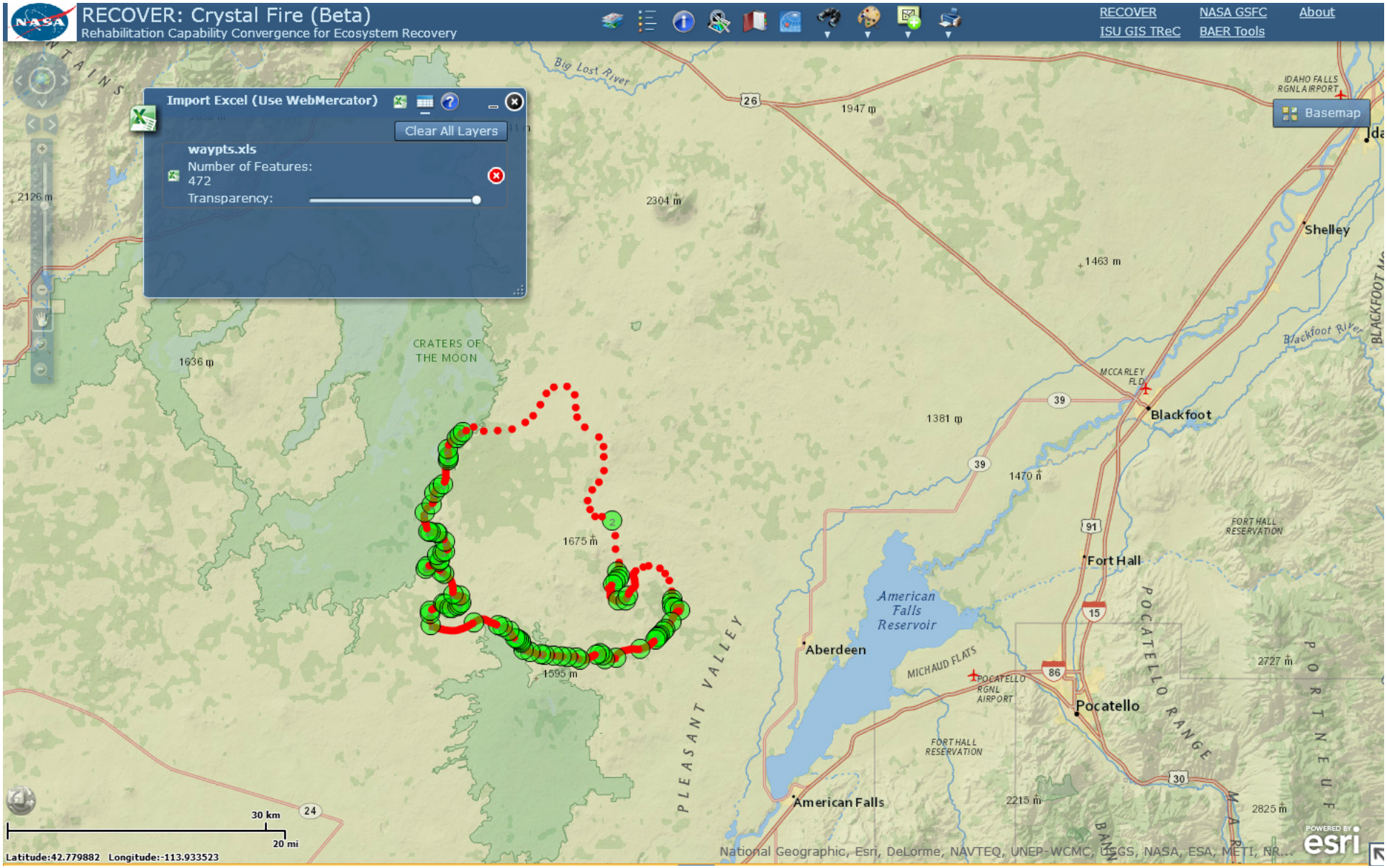
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NASA GSFC
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Big Lost River
IDAHO FALLS RGNL AIRPORT
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Fort Hall
American Falls Reservoir
PLEASANT VALLEY
Aberdeen
MICHAUD FLATS
POCATELLO RGNL AIRPORT
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PORTNEUF
FORT HALL RESERVATION
American Falls
2215 m
2825 m
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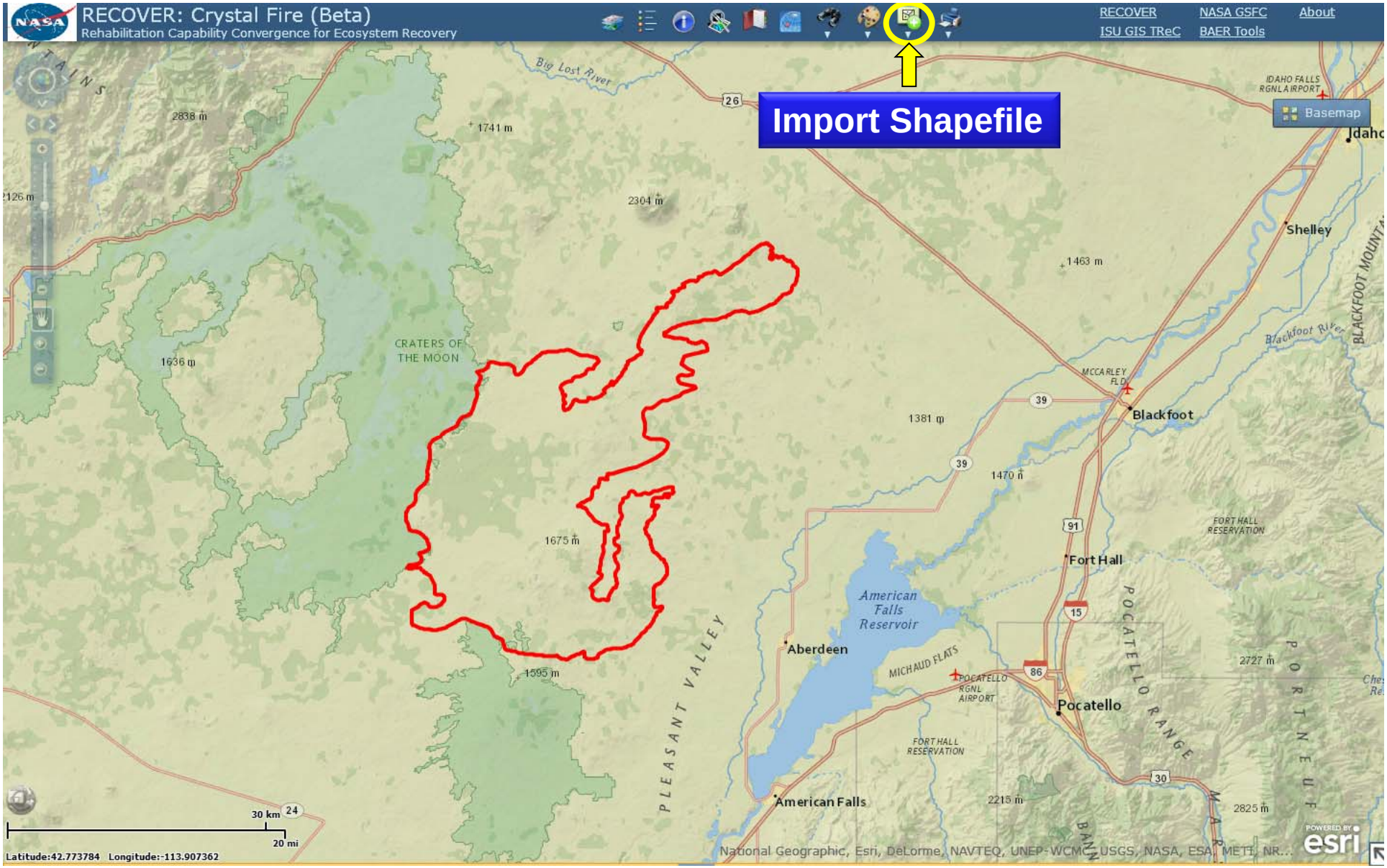
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NASA GSFC
BAER Tools
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Blackfoot
Blackfoot River
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MCCARLEY FLD
IDAHO FALLS RGNL AIRPORT
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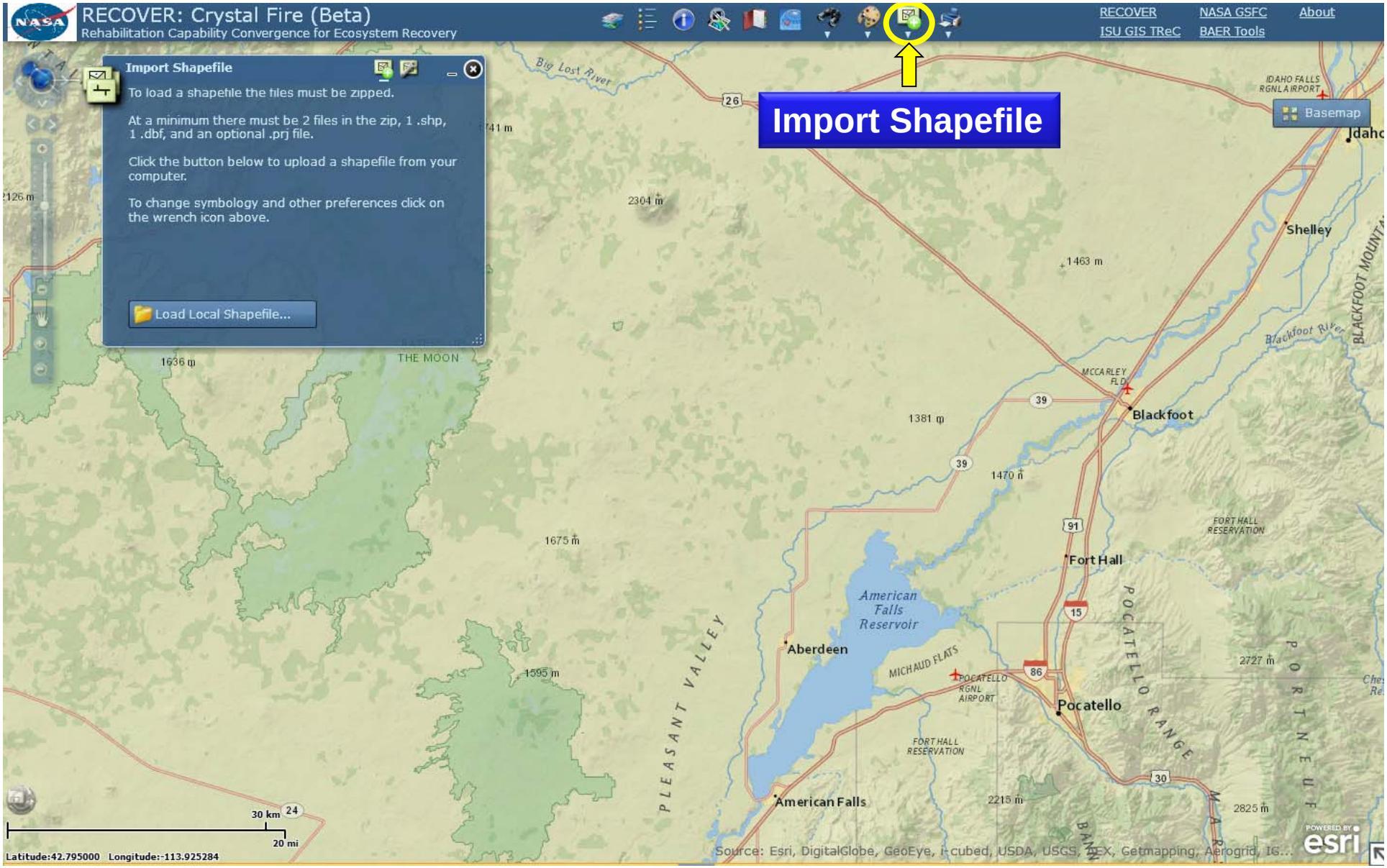
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NASA GSFC
BAER Tools
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Import Shapefile
To load a shapefile the files must be zipped.
At a minimum there must be 2 files in the zip, 1 .shp, 1 .dbf, and an optional .prj file.
Click the button below to upload a shapefile from your computer.
To change symbology and other preferences click on the wrench icon above.
Load Local Shapefile...
Import Shapefile
Basemap
Big Lost River
Shelley
Blackfoot
Fort Hall
American Falls Reservoir
Aberdeen
Pocatello
American Falls
PLEASANT VALLEY
POCATELLO RANGE
BLACKFOOT MOUNTAINS
Blackfoot River
MICHAUD FLATS
FORT HALL RESERVATION
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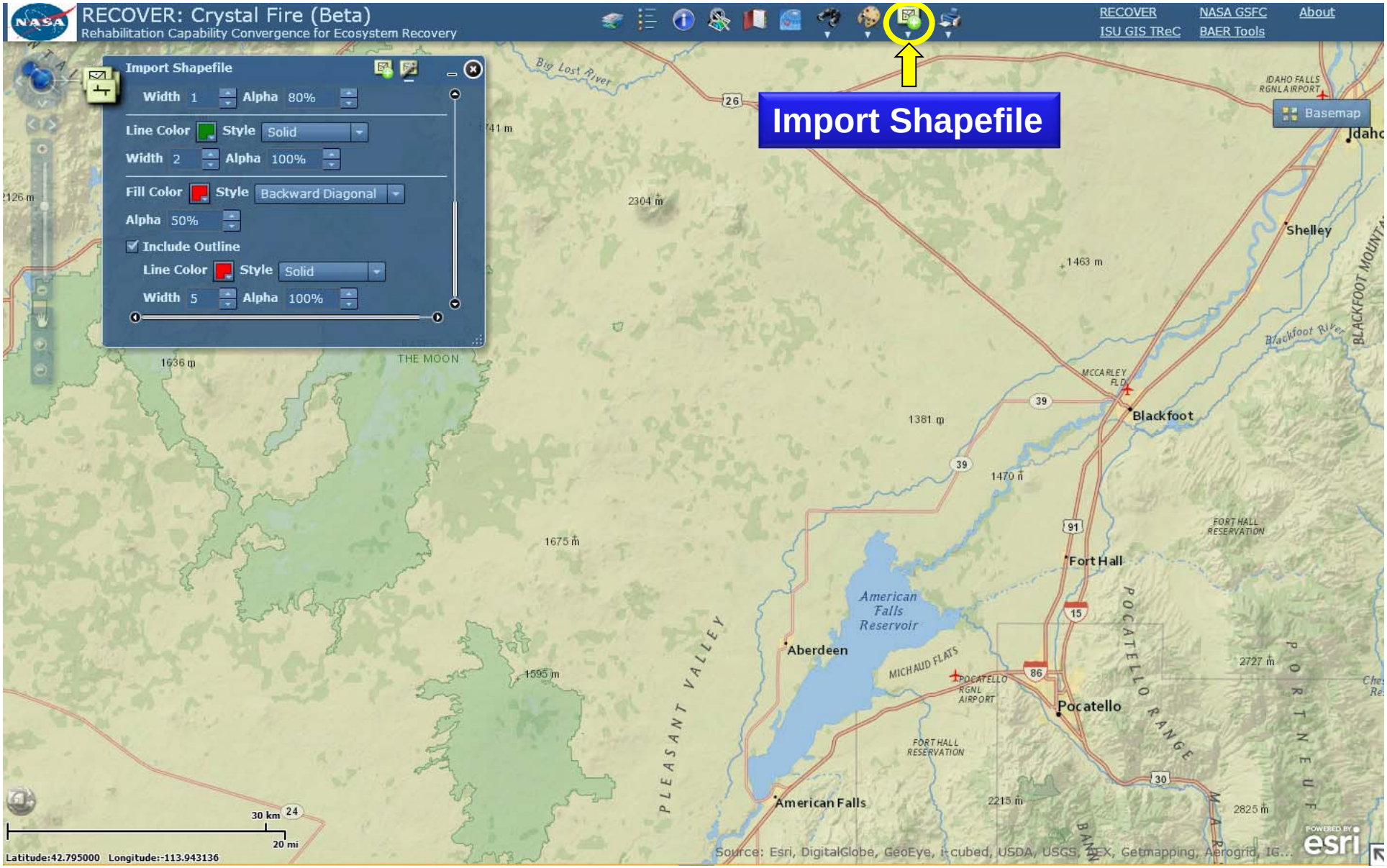
esri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ISU GIS TReC
NASA GSFC
BAER Tools
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Import Shapefile
Basemap
Import Shapefile
Width 1 Alpha 80%
Line Color Style Solid
Width 2 Alpha 100%
Fill Color Style Backward Diagonal
Alpha 50%
Include Outline
Line Color Style Solid
Width 5 Alpha 100%
Big Lost River
IDAHO FALLS RGNL AIRPORT
Shelley
Blackfoot River
BLACKFOOT MOUNTA
MCCARLEY FLD
Blackfoot
THE MOON
Fort Hall
FORT HALL RESERVATION
American Falls Reservoir
Aberdeen
MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
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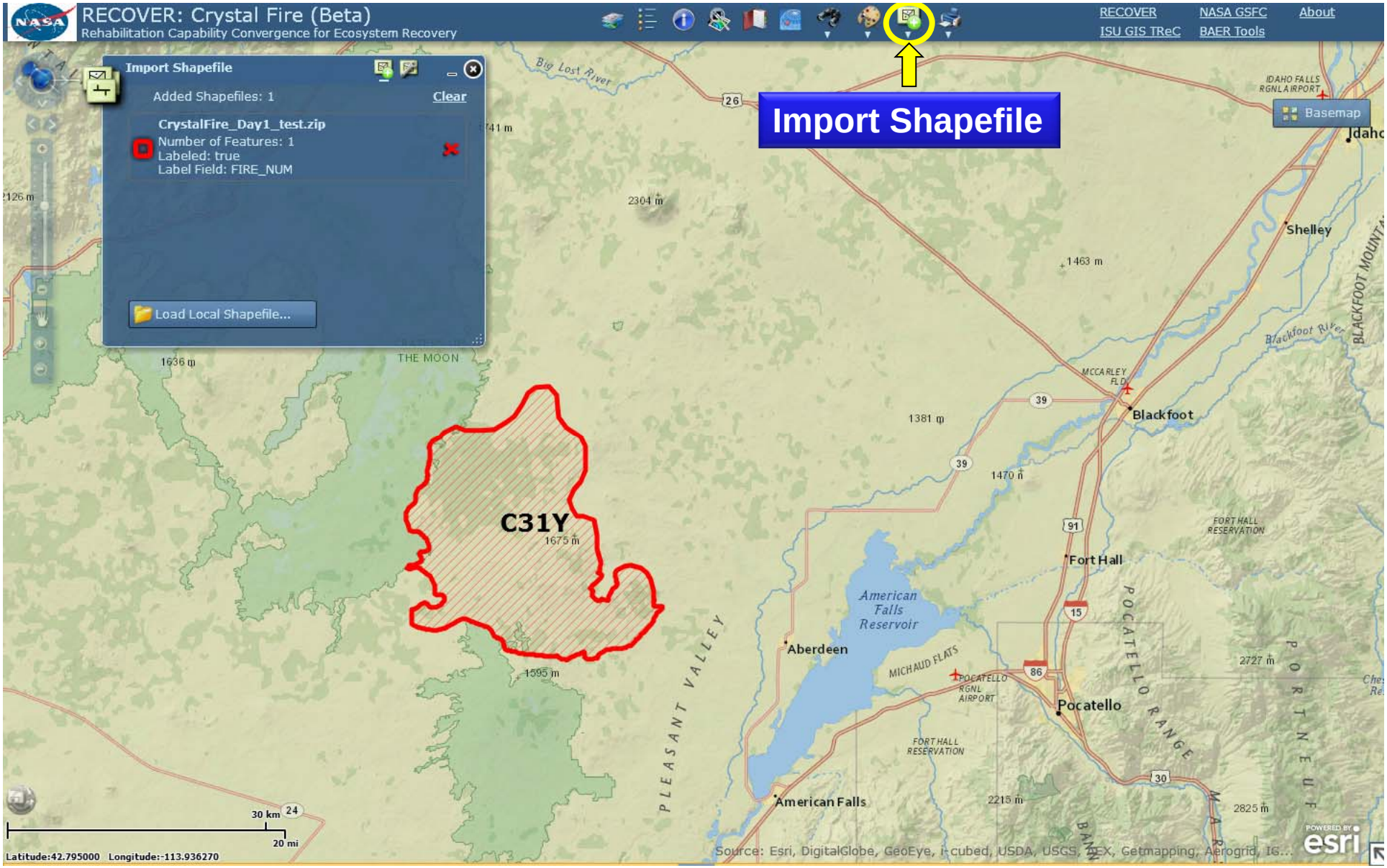
esri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ISU GIS TReC
NASA GSFC
BAER Tools
About
Import Shapefile
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CrystalFire_Day1_test.zip
Number of Features: 1
Labeled: true
Label Field: FIRE_NUM
Load Local Shapefile...
Import Shapefile
Basemap
C31Y
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Shelley
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Aberdeen
American Falls
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American Falls Reservoir
MICHAUD FLATS
POCATELLO RGNL AIRPORT
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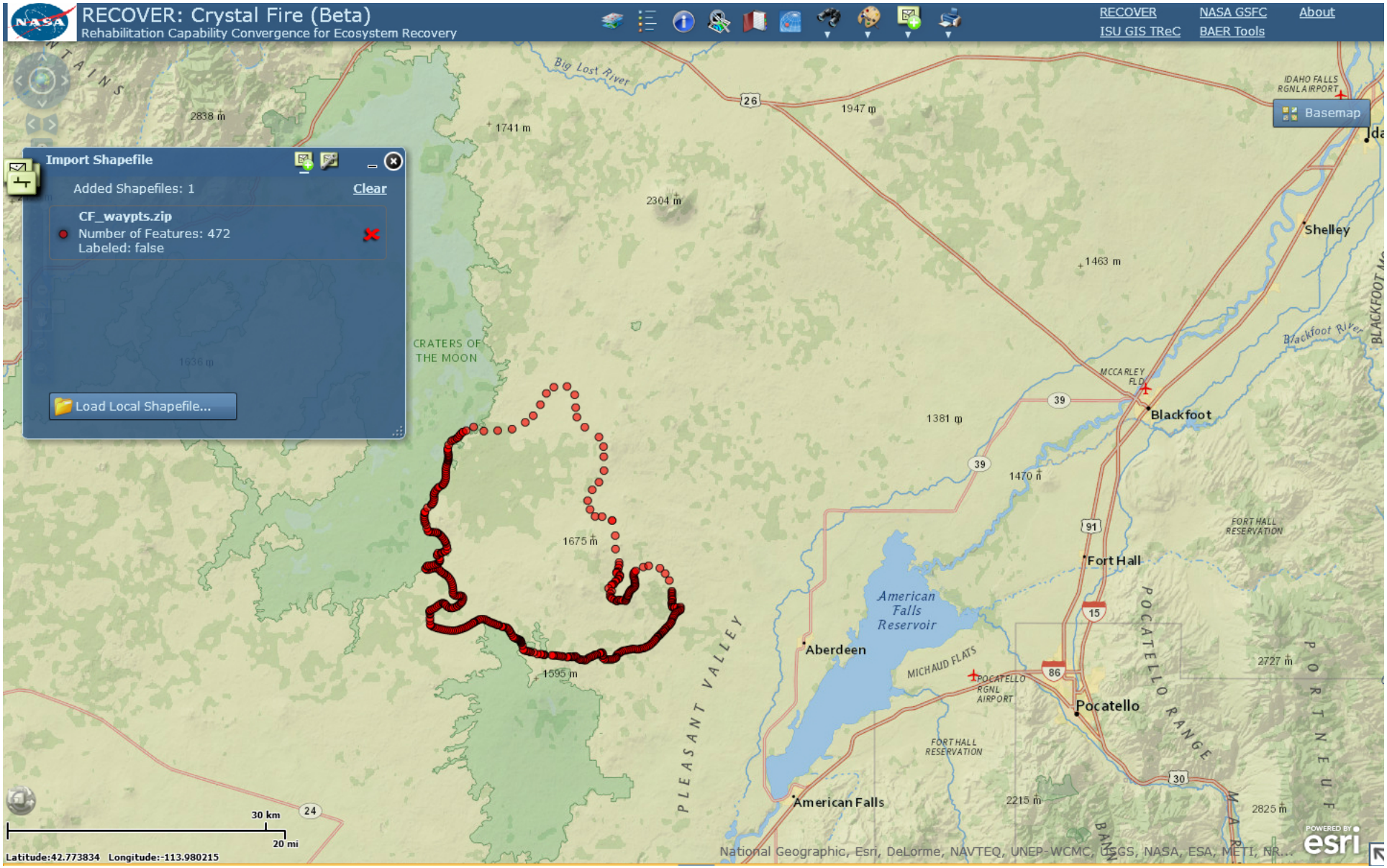
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Added Shapefiles: 1
Clear
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Number of Features: 472
Labeled: false
Load Local Shapefile...
Basemap
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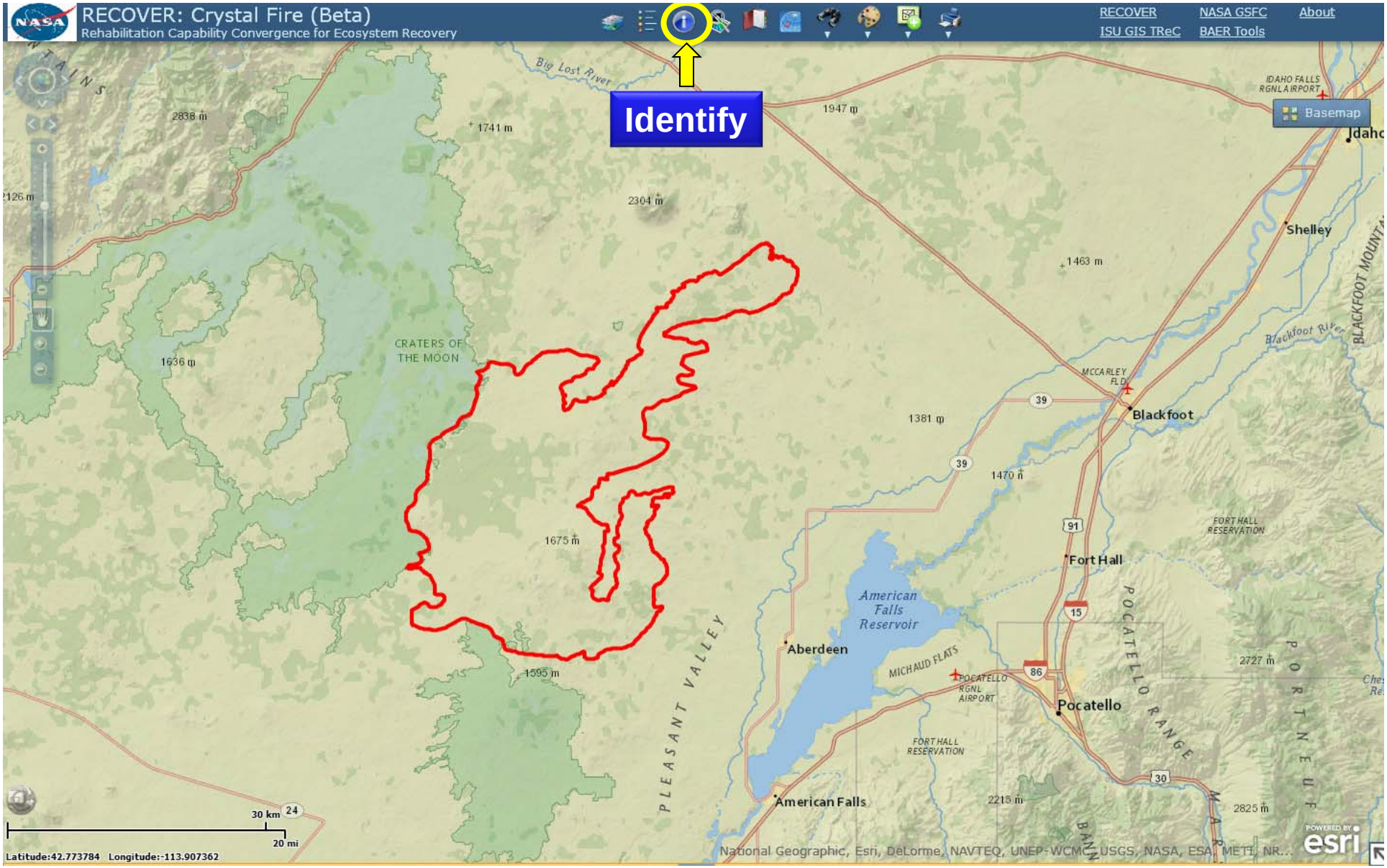
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NASA GSFC
BAER Tools
About
Identify
Basemap
Big Lost River
2838 m
1741 m
1947 m
2304 m
1463 m
CRATERS OF THE MOON
1636 m
1675 m
1595 m
1381 m
1470 m
Shelley
Blackfoot
Blackfoot River
BLACKFOOT MOUNTAINS
MCCARLEY FLD
IDAHO FALLS RGNL AIRPORT
FORT HALL RESERVATION
Fort Hall
American Falls Reservoir
Aberdeen
MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
2727 m
2215 m
2825 m
39
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30 km
20 mi
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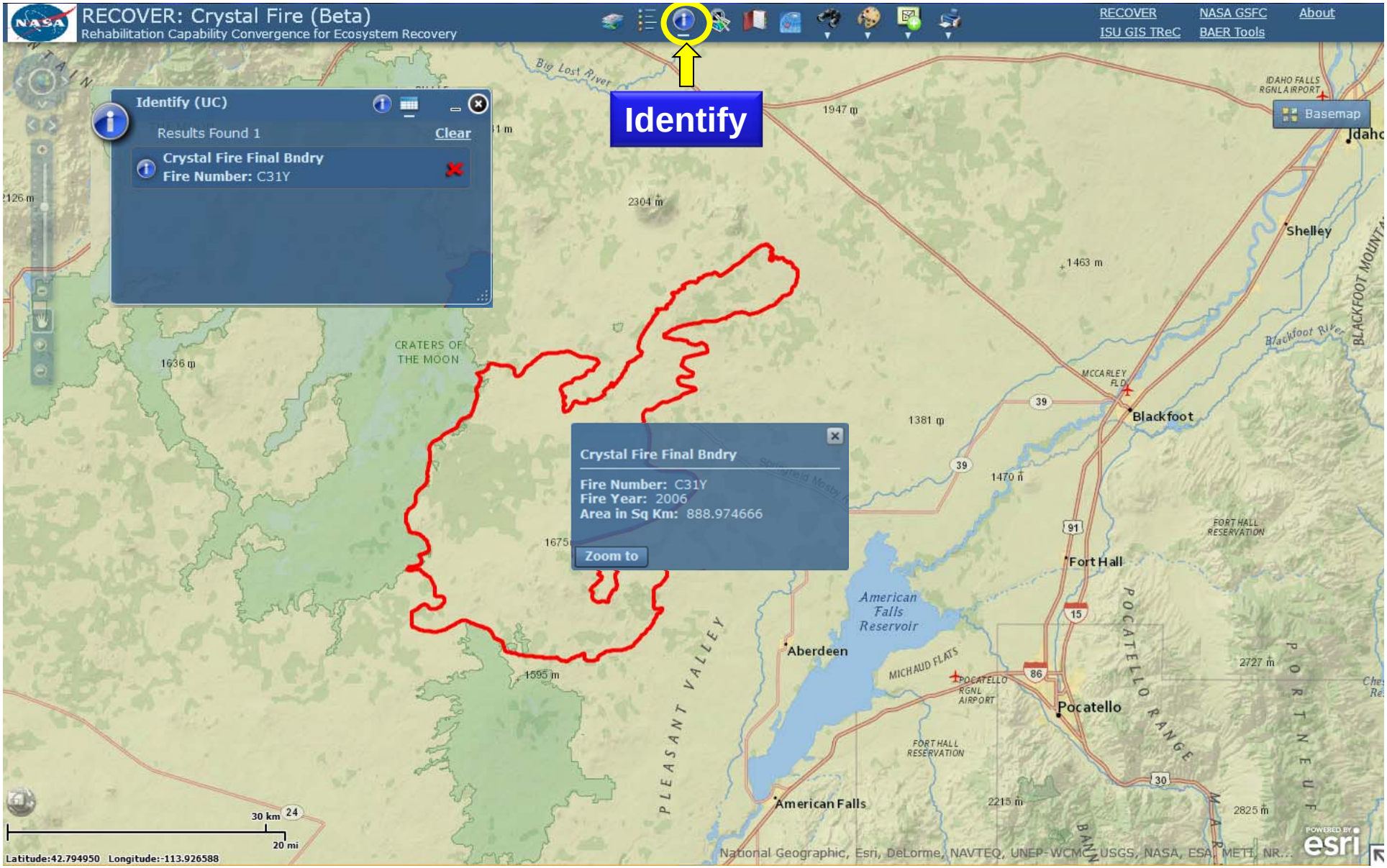
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Identify (UC)
Results Found 1
Clear
Crystal Fire Final Bndry
Fire Number: C31Y
Crystal Fire Final Bndry
Fire Number: C31Y
Fire Year: 2006
Area in Sq Km: 888.974666
Zoom to
Basemap
Shelley
Blackfoot
Fort Hall
Aberdeen
American Falls
Pocatello
CRATERS OF THE MOON
American Falls Reservoir
PLEASANT VALLEY
POCATELLO RANGE
FORT HALL RESERVATION
MICHAUD FLATS
Big Lost River
Blackfoot River
BLACKFOOT MOUNTAINS
1947 m
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20 mi
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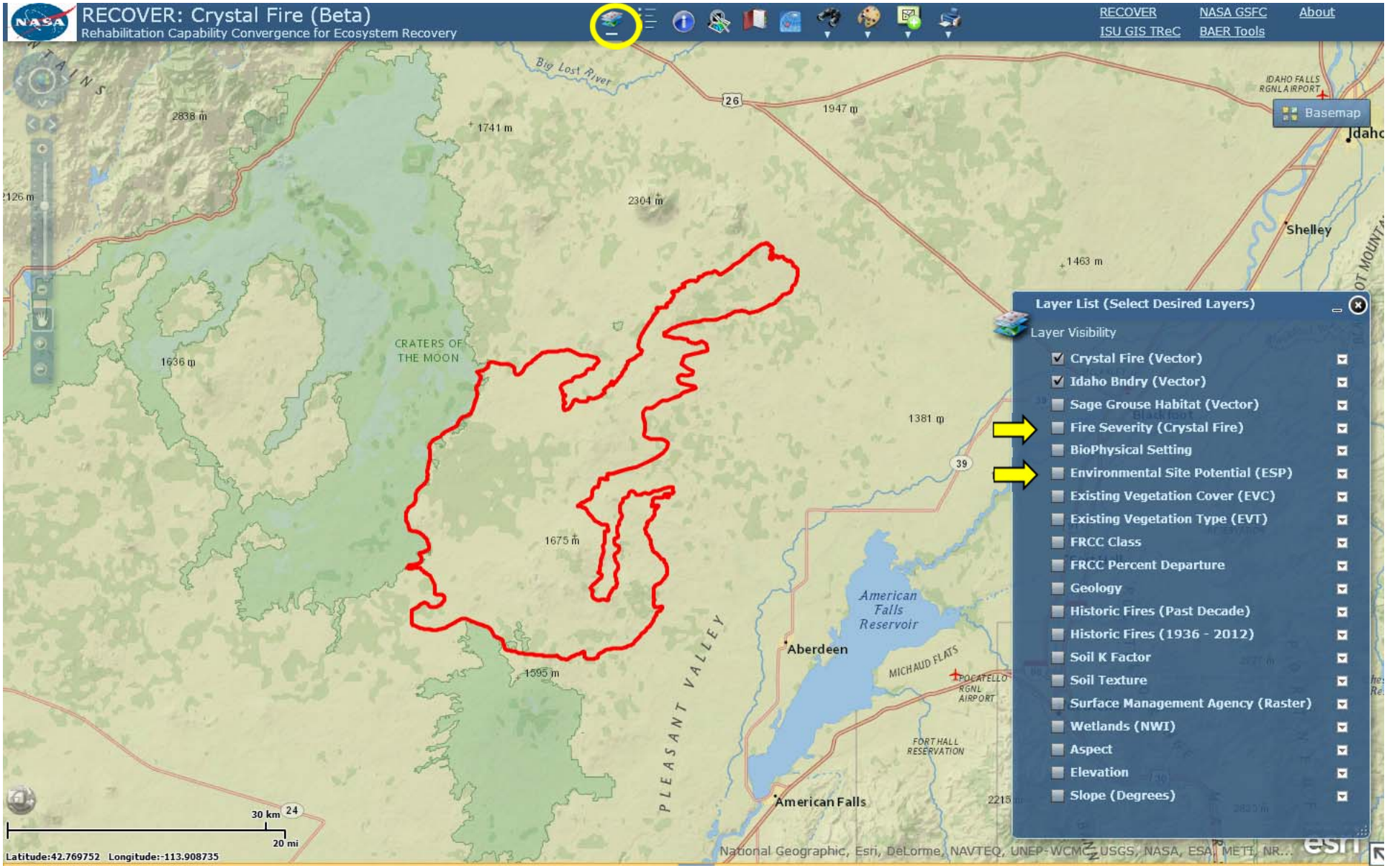
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Idaho Bndry (Vector)
Sage Grouse Habitat (Vector)
Fire Severity (Crystal Fire)
BioPhysical Setting
Environmental Site Potential (ESP)
Existing Vegetation Cover (EVC)
Existing Vegetation Type (EVT)
FRCC Class
FRCC Percent Departure
Geology
Historic Fires (Past Decade)
Historic Fires (1936 - 2012)
Soil K Factor
Soil Texture
Surface Management Agency (Raster)
Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
Big Lost River
CRATERS OF THE MOON
PLEASANT VALLEY
American Falls Reservoir
Aberdeen
American Falls
Shelley
IDAHO FALLS RGNL AIRPORT
POCATELLO RGNL AIRPORT
MICHAUD FLATS
FORT HALL RESERVATION
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1463 m
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2215 m
30 km
20 mi
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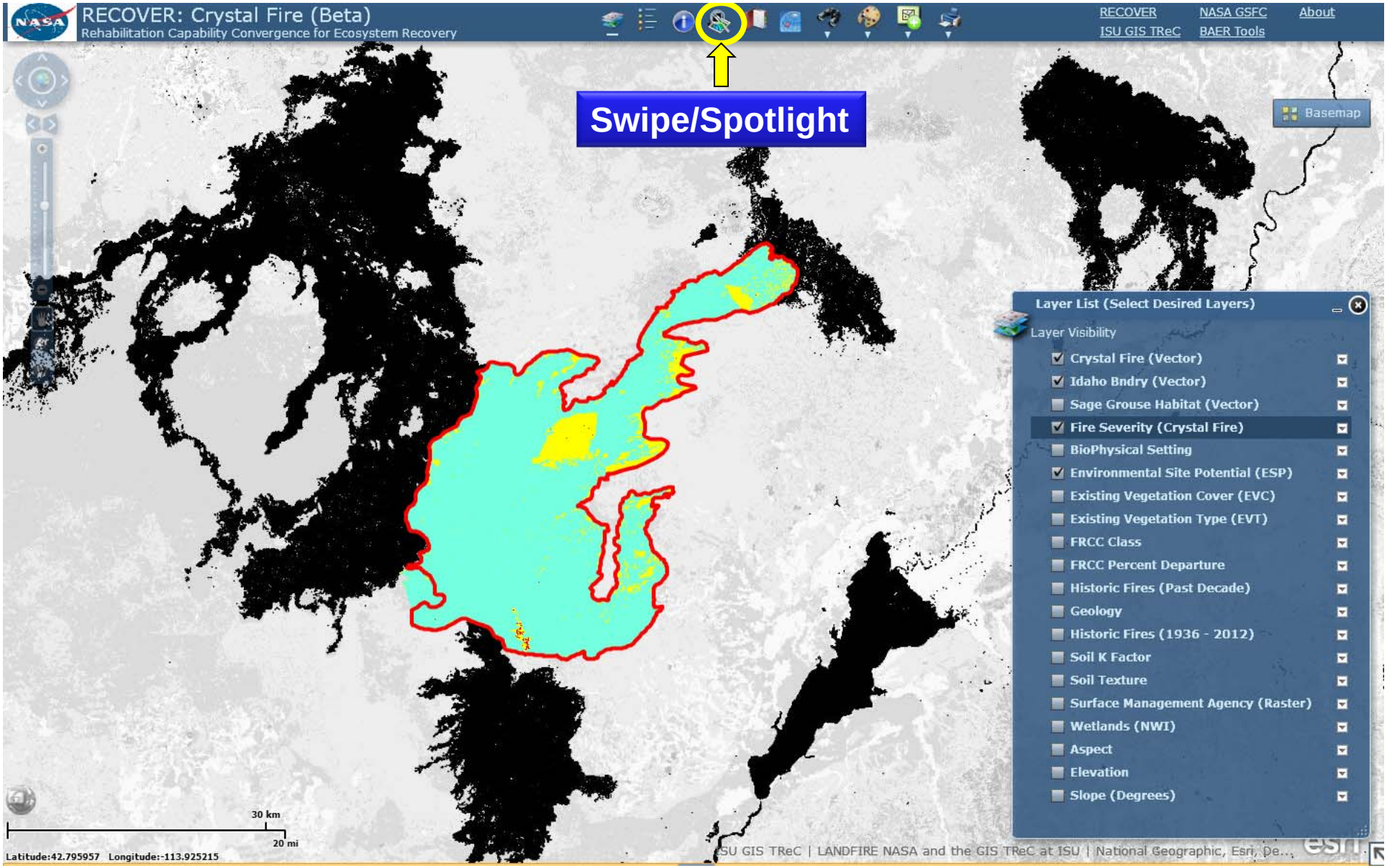
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BioPhysical Setting
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Existing Vegetation Cover (EVC)
Existing Vegetation Type (EVT)
FRCC Class
FRCC Percent Departure
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Geology
Historic Fires (1936 - 2012)
Soil K Factor
Soil Texture
Surface Management Agency (Raster)
Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
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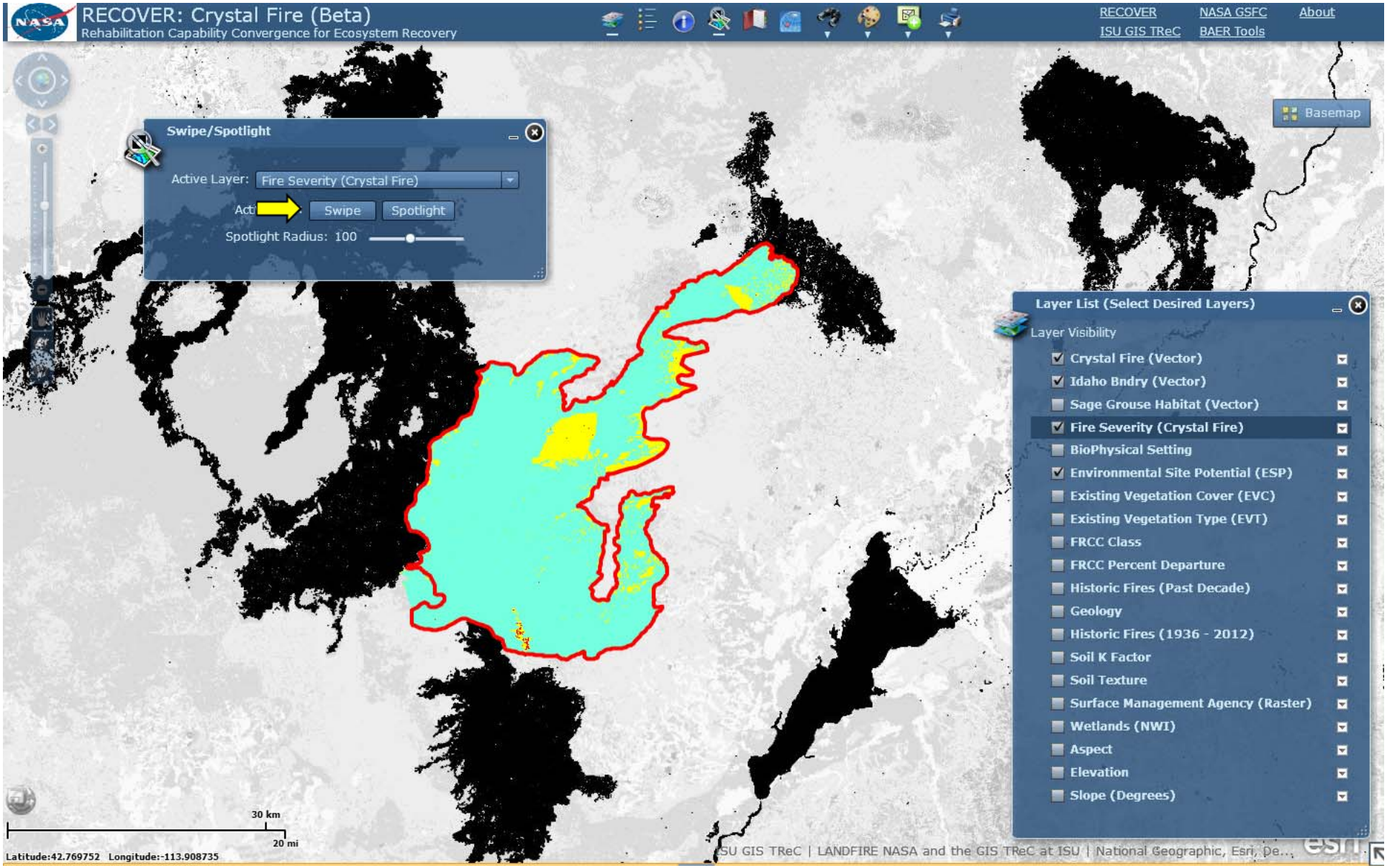
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Fire Severity (Crystal Fire)
Swipe
Spotlight
Spotlight Radius: 100
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Layer Visibility
Crystal Fire (Vector)
Idaho Bndry (Vector)
Sage Grouse Habitat (Vector)
Fire Severity (Crystal Fire)
BioPhysical Setting
Environmental Site Potential (ESP)
Existing Vegetation Cover (EVC)
Existing Vegetation Type (EVT)
FRCC Class
FRCC Percent Departure
Historic Fires (Past Decade)
Geology
Historic Fires (1936 - 2012)
Soil K Factor
Soil Texture
Surface Management Agency (Raster)
Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
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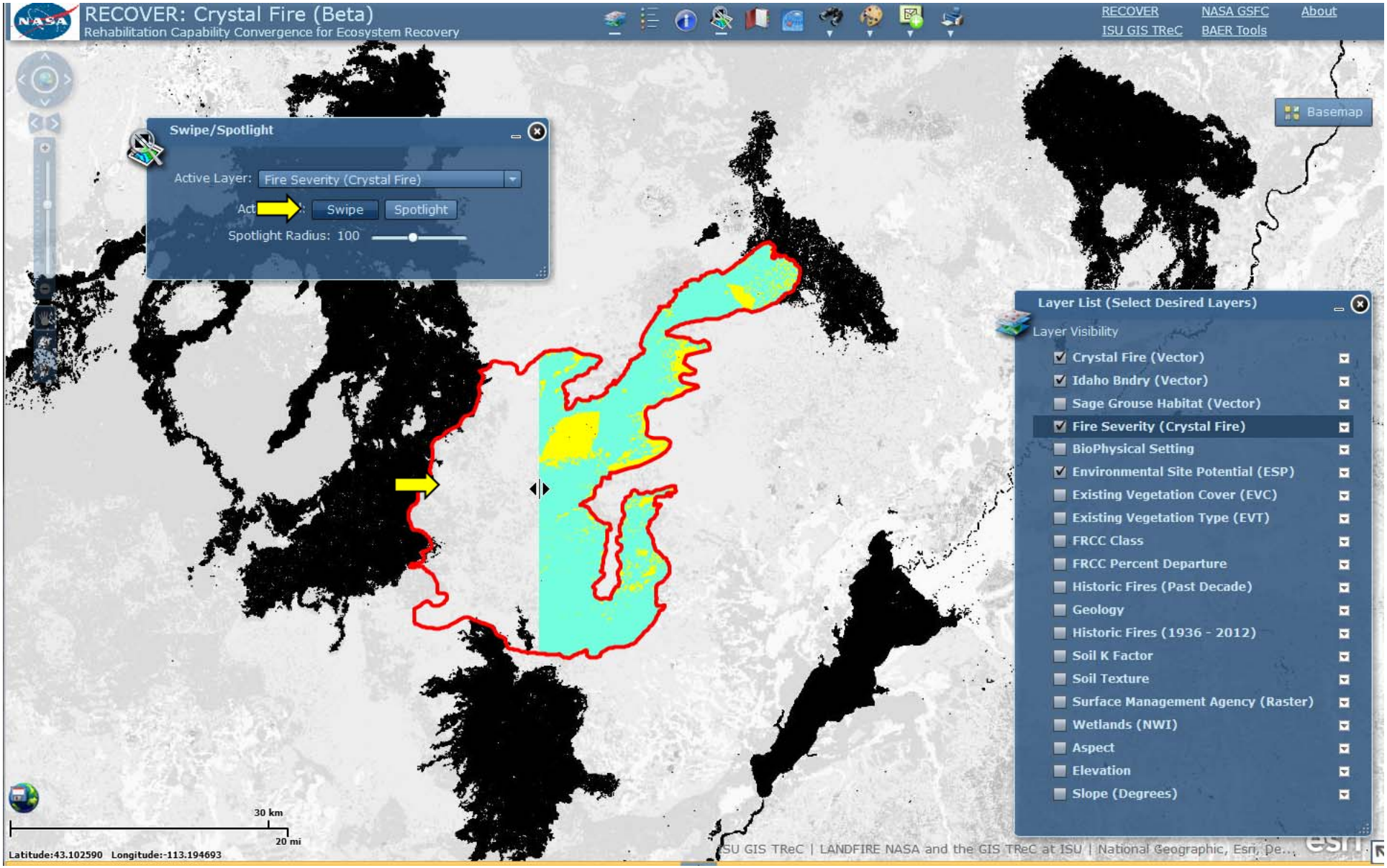
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Idaho Bndry (Vector)
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FRCC Percent Departure
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Soil K Factor
Soil Texture
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Aspect
Elevation
Slope (Degrees)
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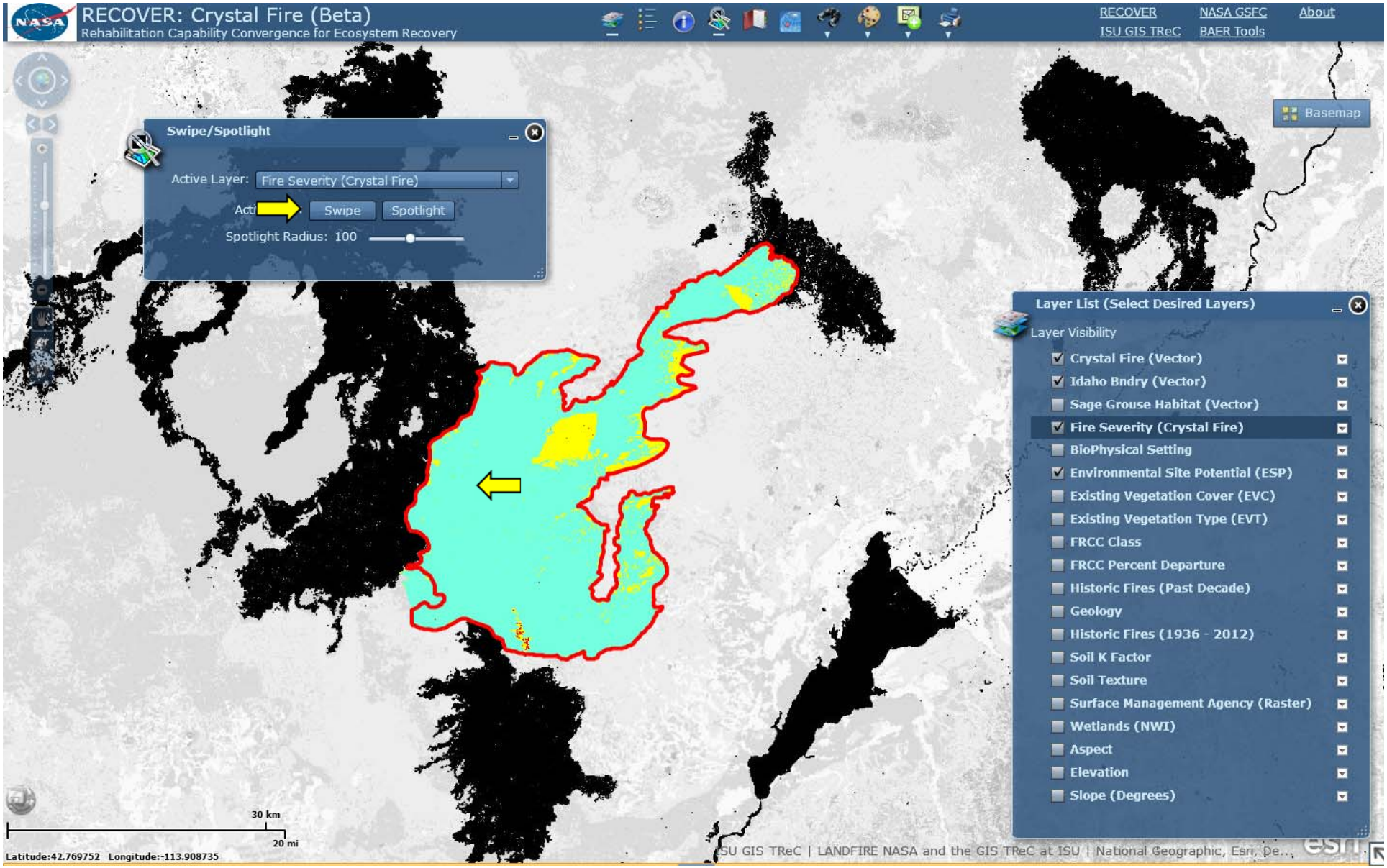
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Existing Vegetation Type (EVT)
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FRCC Percent Departure
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Soil Texture
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Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
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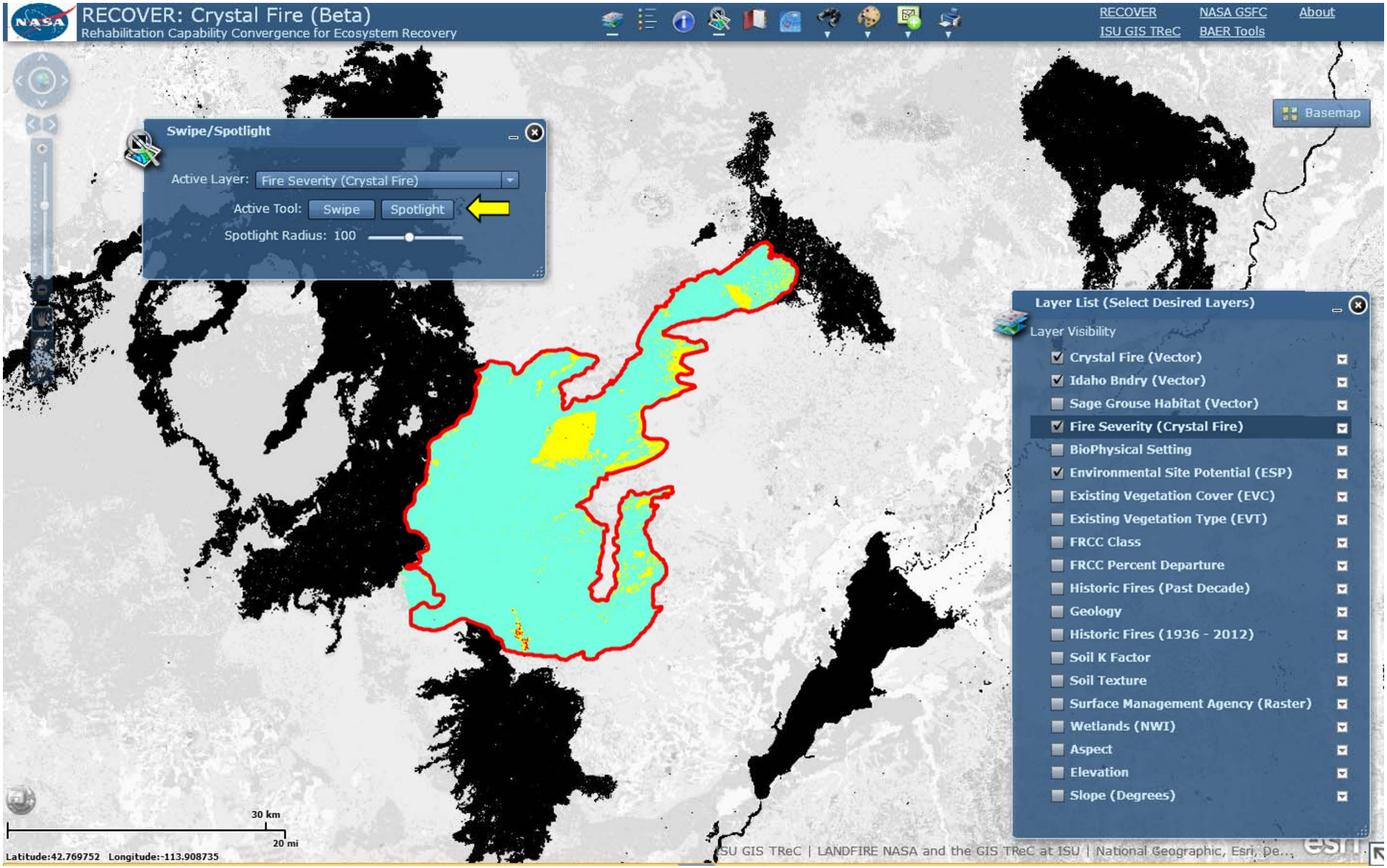
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Active Tool: Swipe Spotlight
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Sage Grouse Habitat (Vector)
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BioPhysical Setting
Environmental Site Potential (ESP)
Existing Vegetation Cover (EVC)
Existing Vegetation Type (EVT)
FRCC Class
FRCC Percent Departure
Historic Fires (Past Decade)
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Historic Fires (1936 - 2012)
Soil K Factor
Soil Texture
Surface Management Agency (Raster)
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Aspect
Elevation
Slope (Degrees)
30 km
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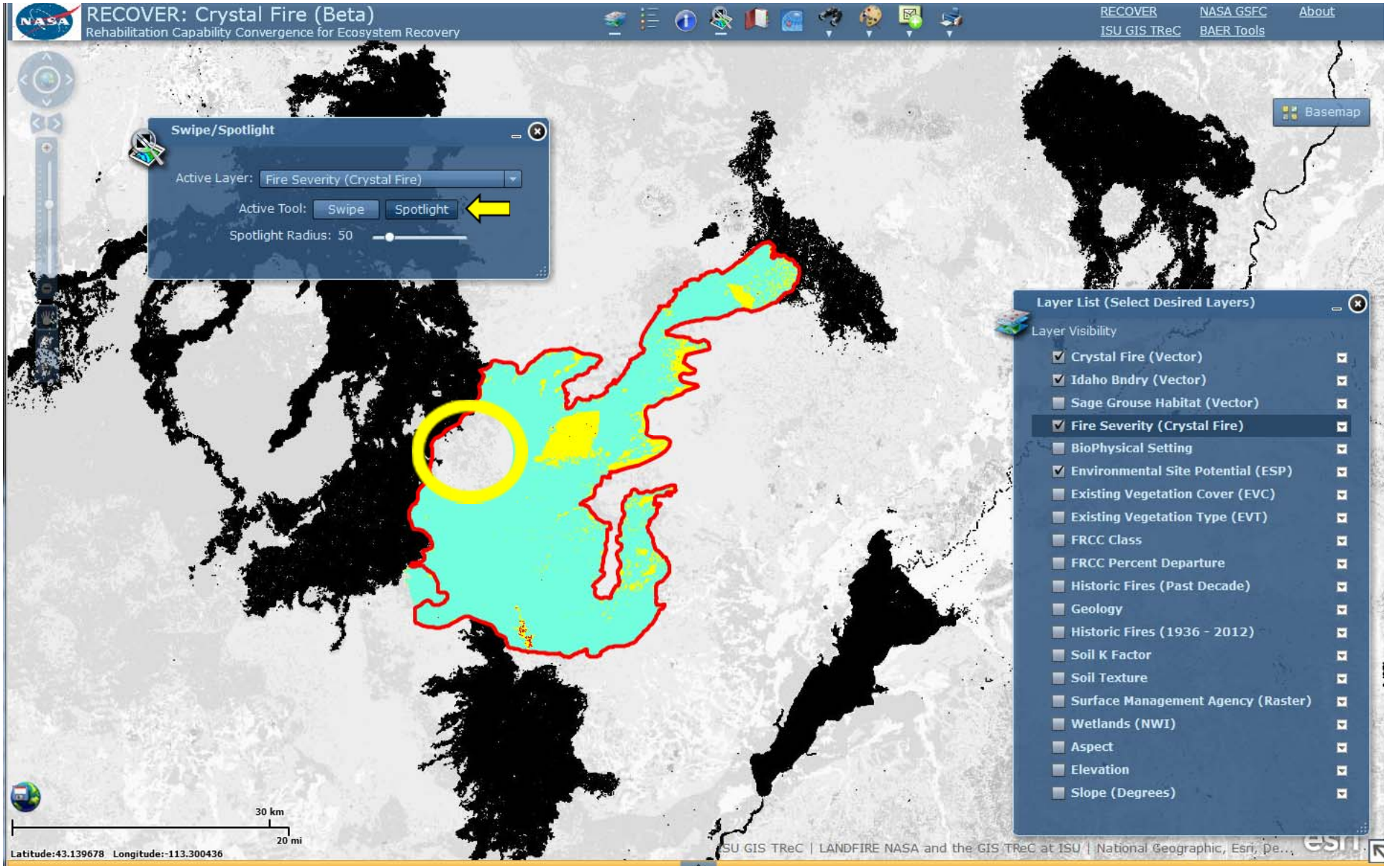
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Wetlands (NWI)
Aspect
Elevation
Slope (Degrees)
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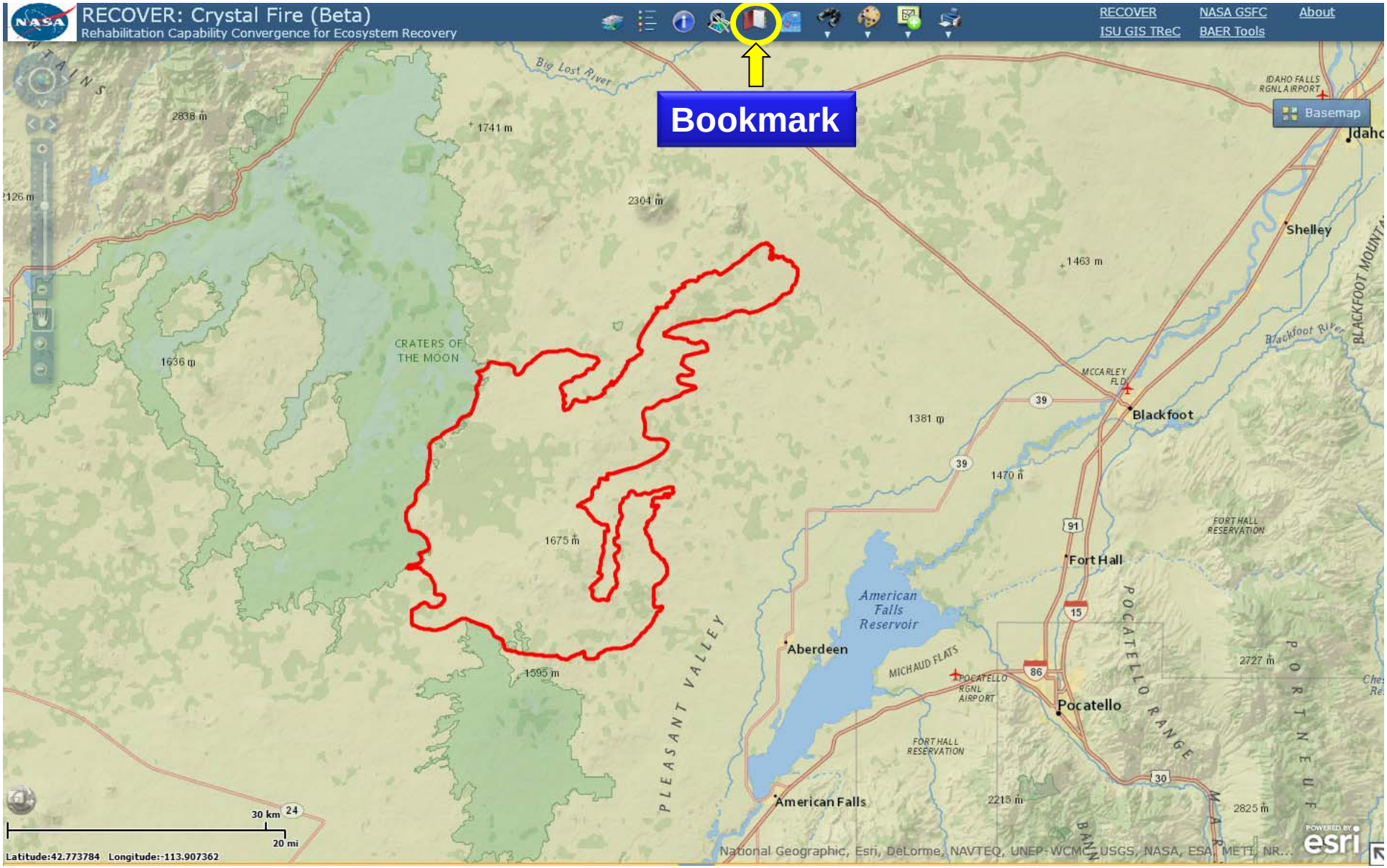
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Idaho
Shelley
BLACKFOOT MOUNTA
Blackfoot River
MCCARLEY FLD
Blackfoot
CRATERS OF THE MOON
American Falls Reservoir
Aberdeen
MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
FORT HALL RESERVATION
Fort Hall
POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
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1741 m
2304 m
1463 m
1636 m
1381 m
1470 m
1675 m
1595 m
2727 m
2215 m
2825 m
30 km
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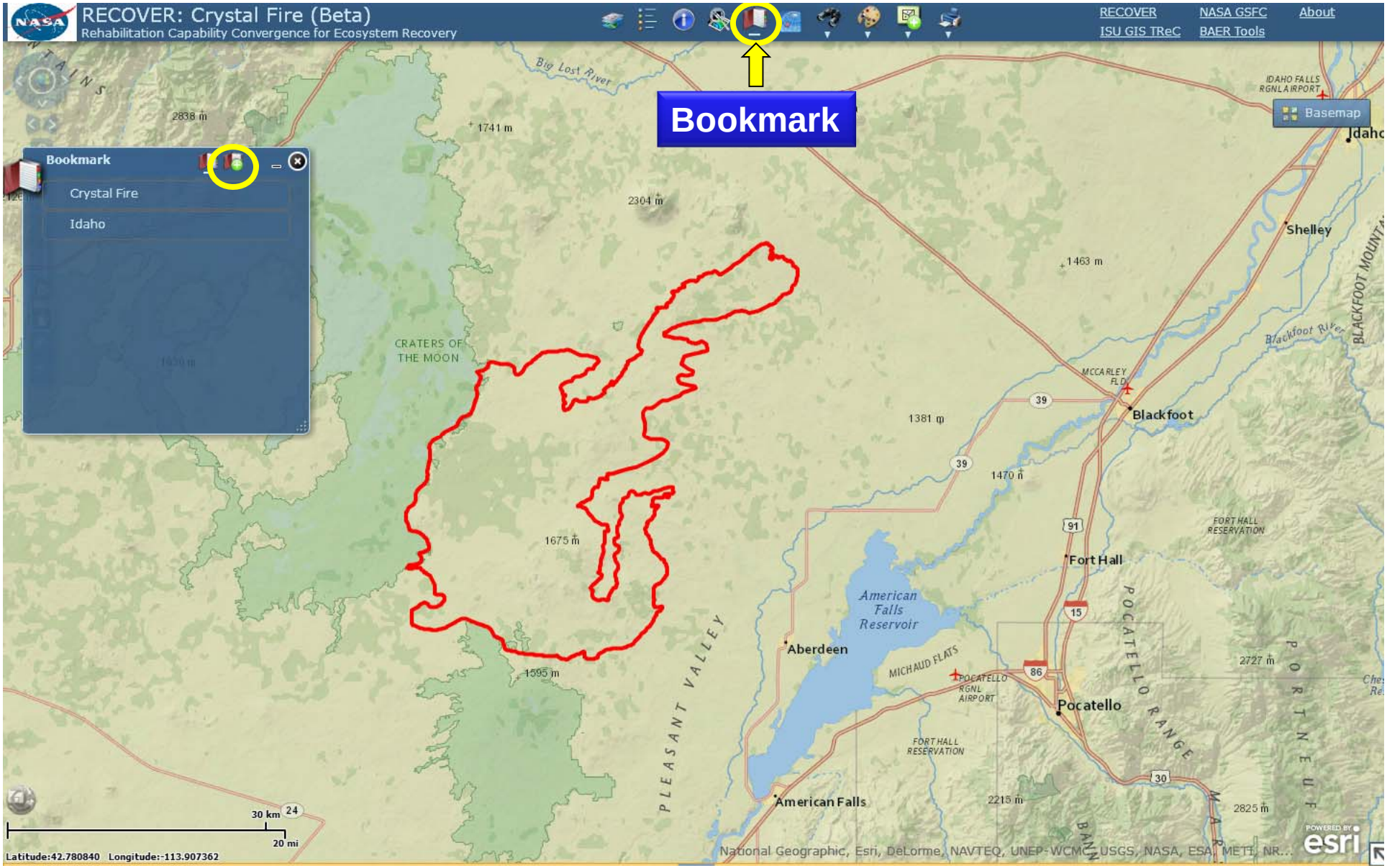
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CRATERS OF THE MOON
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Shelley
Blackfoot River
BLACKFOOT MOUNTA
MCCARLEY FLD
Blackfoot
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24
FORT HALL RESERVATION
Fort Hall
American Falls Reservoir
Aberdeen
MICHAUD FLATS
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American Falls
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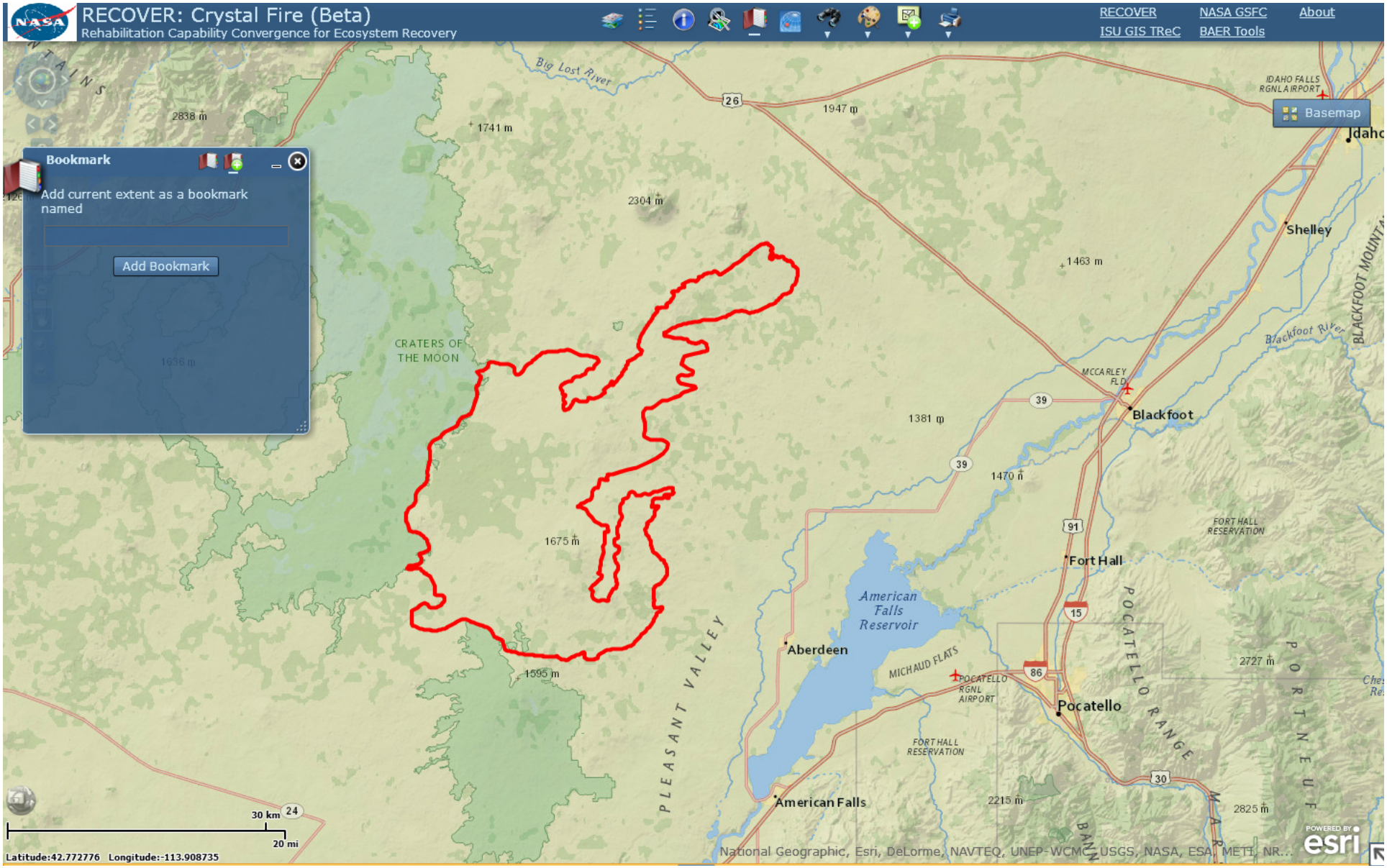
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Add Bookmark
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BLACKFOOT MOUNTAINS
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CRATERS OF THE MOON
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MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
FORT HALL RESERVATION
Fort Hall
American Falls
BANNOCK
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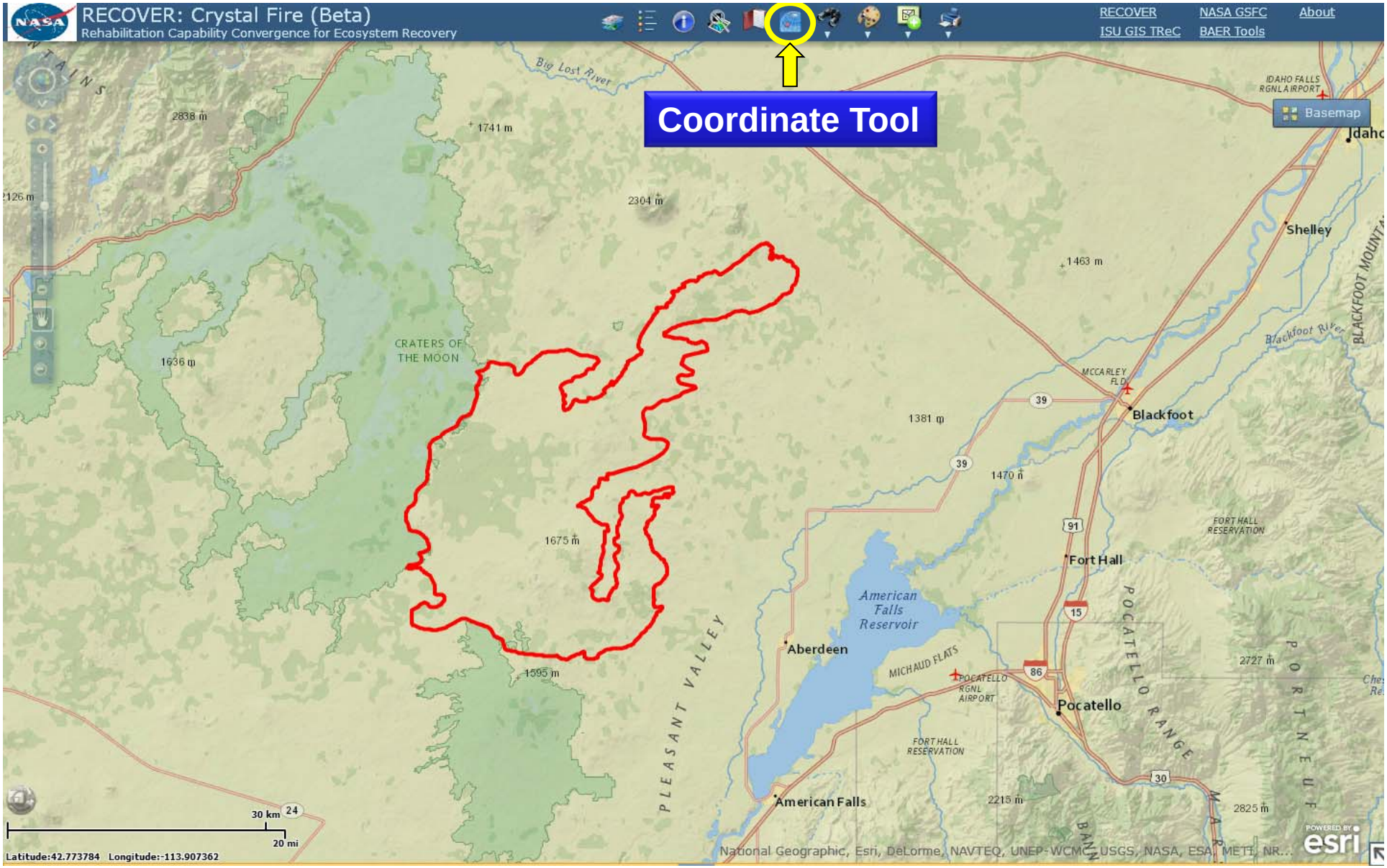
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1675 m
1595 m
Shelley
Blackfoot
Blackfoot River
BLACKFOOT MOUNTAINS
MCCARLEY FLD
IDAHO FALLS RGNL AIRPORT
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91
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Fort Hall
FORT HALL RESERVATION
American Falls Reservoir
Aberdeen
PLEASANT VALLEY
MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
2727 m
2215 m
2825 m
American Falls
BANNOCK
30 km
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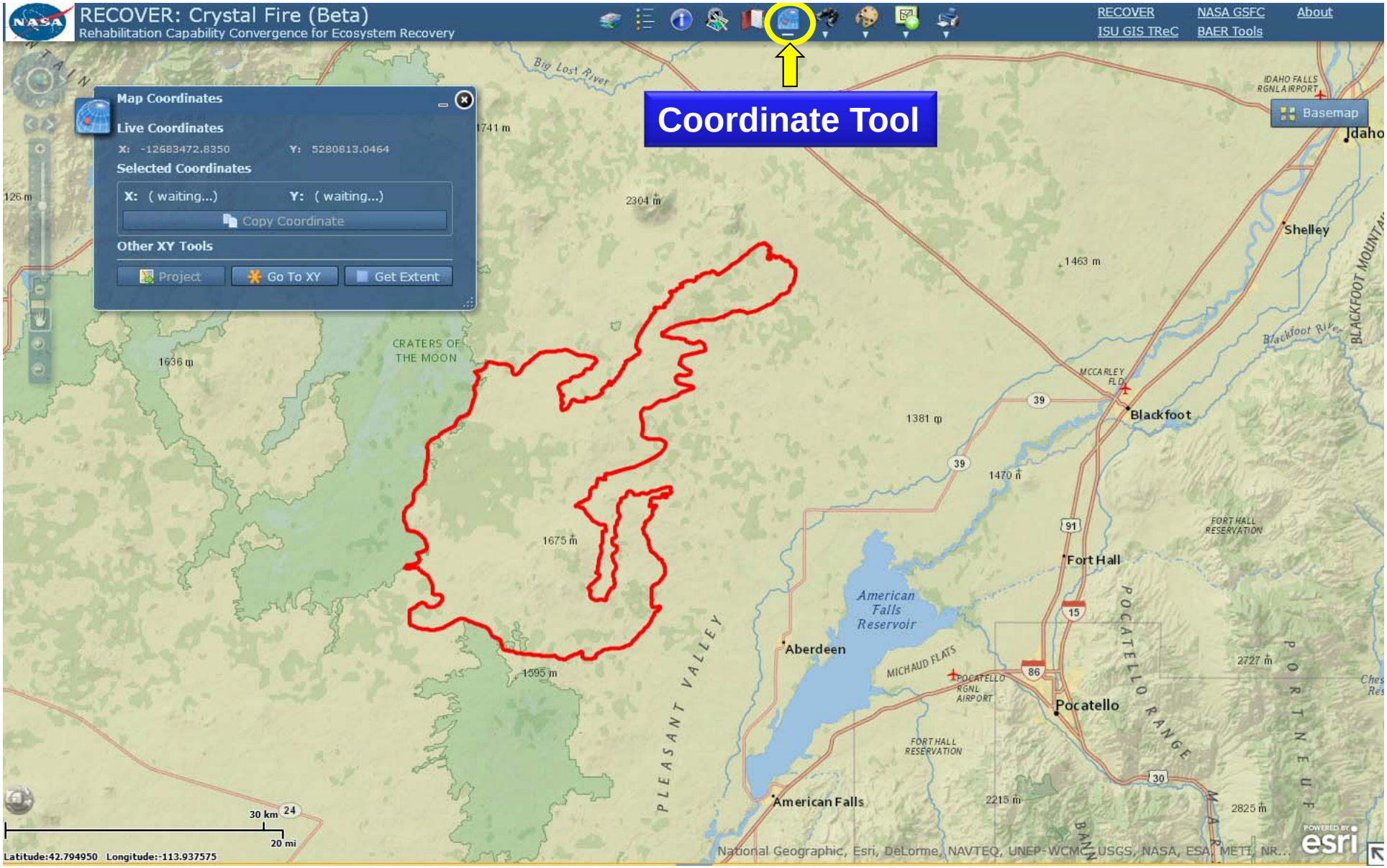
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Map Coordinates
Live Coordinates
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Y: 5280813.0464
Selected Coordinates
X: (waiting...)
Y: (waiting...)
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Other XY Tools
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1595 m
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MICHAUD FLATS
POCATELLO RGNL AIRPORT
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POCATELLO RANGE
PORTNEUF
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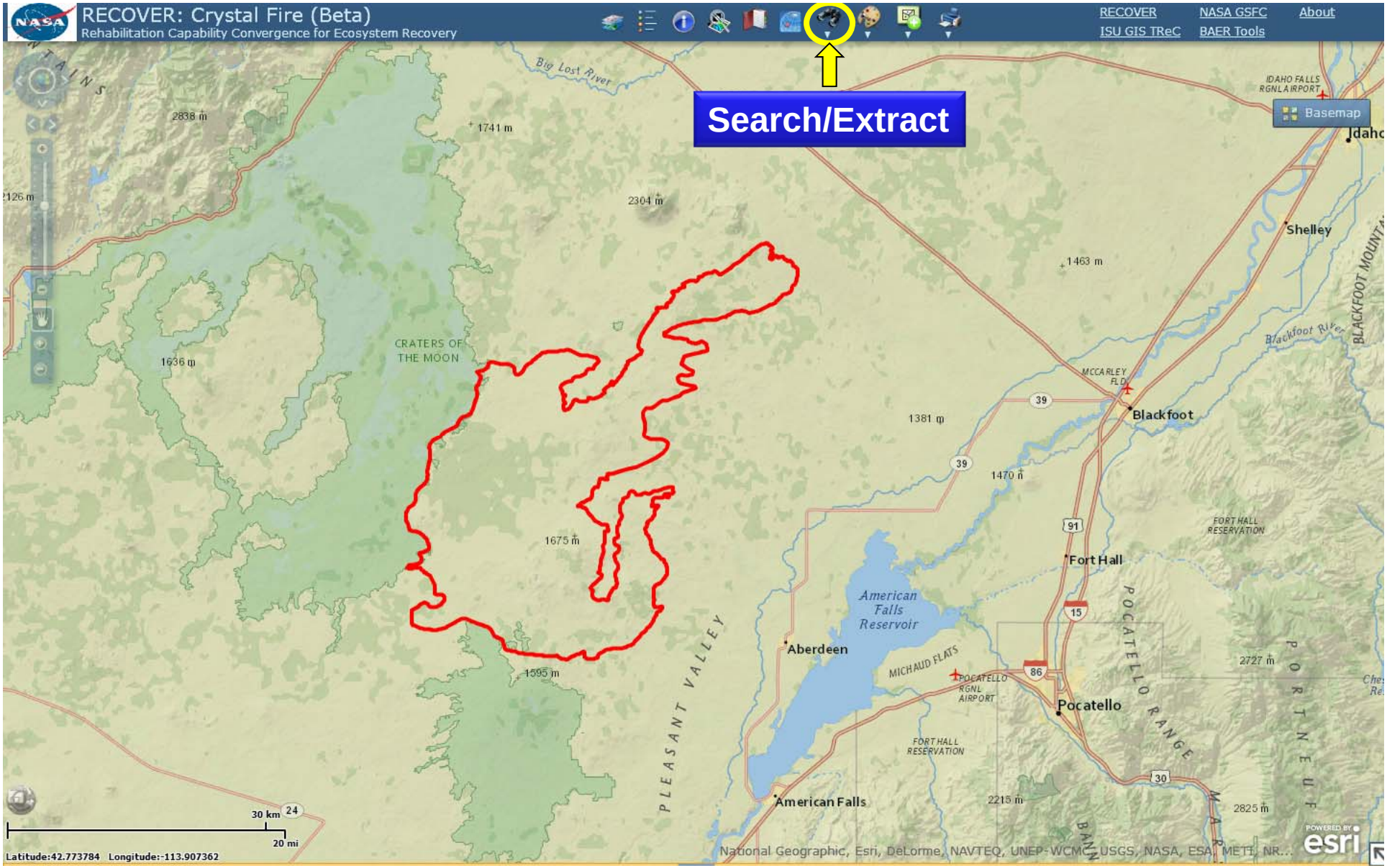
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Fort Hall
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MICHAUD FLATS
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POCATELLO RGNL AIRPORT
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PLEASANT VALLEY
POCATELLO RANGE
2727 m
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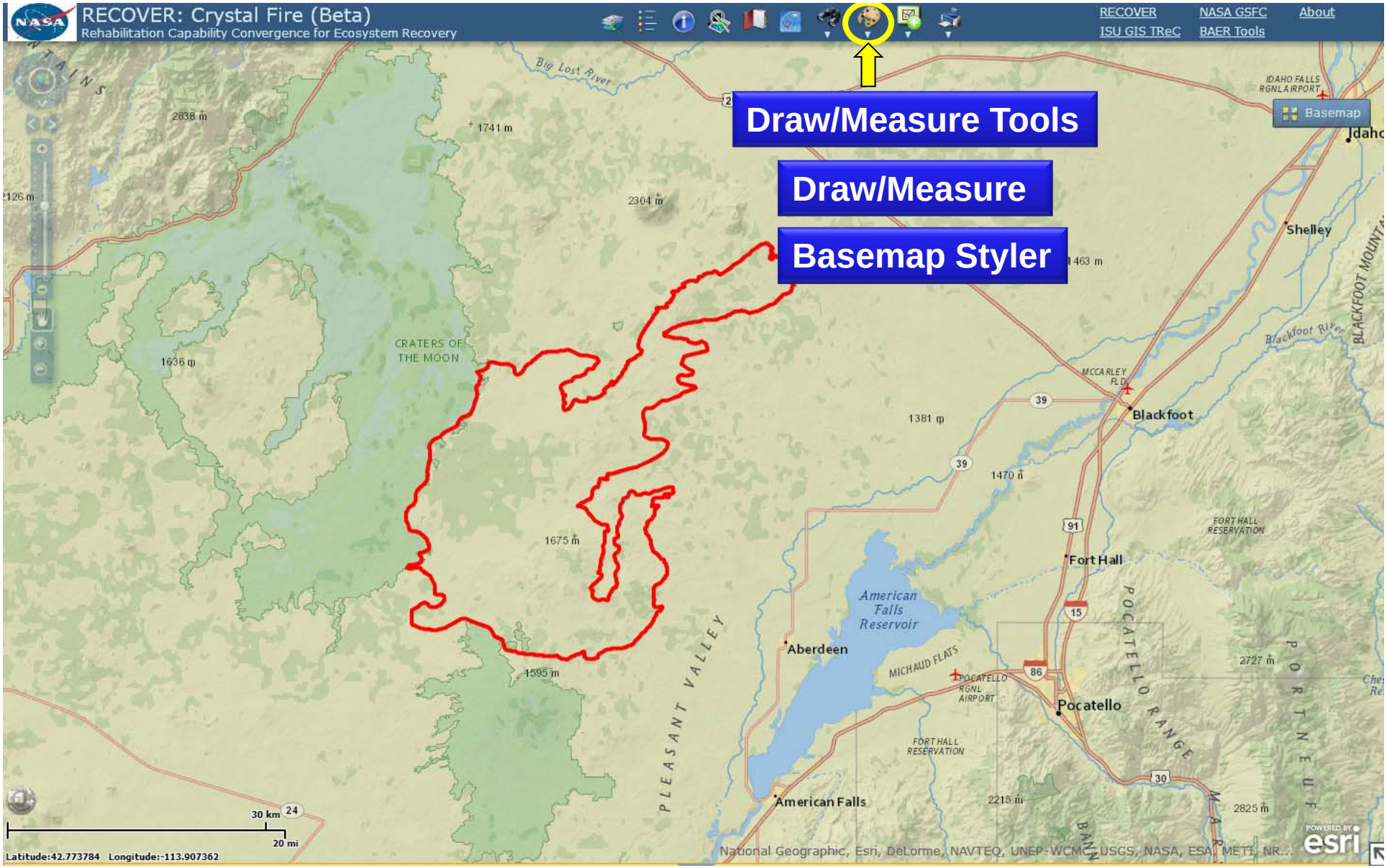
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POCATELLO RANGE
PORTNEUF
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30 km
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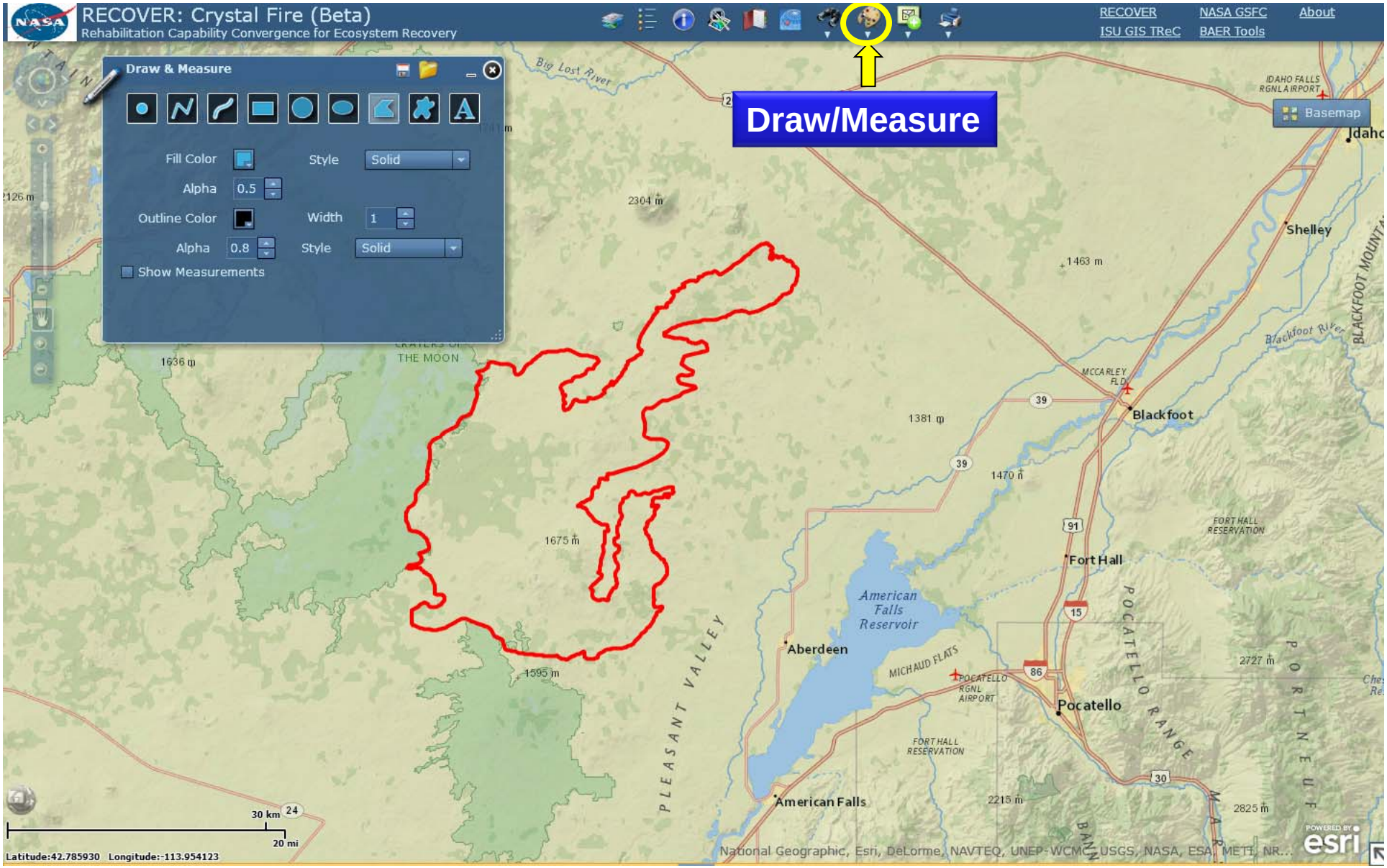
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Style
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Show Measurements
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Idaho
Shelley
BLACKFOOT MOUNTAINS
Blackfoot River
MCCARLEY FLD
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Fort Hall
American Falls Reservoir
Aberdeen
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POCATELLO RGNL AIRPORT
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POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
2215 m
2727 m
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30 km
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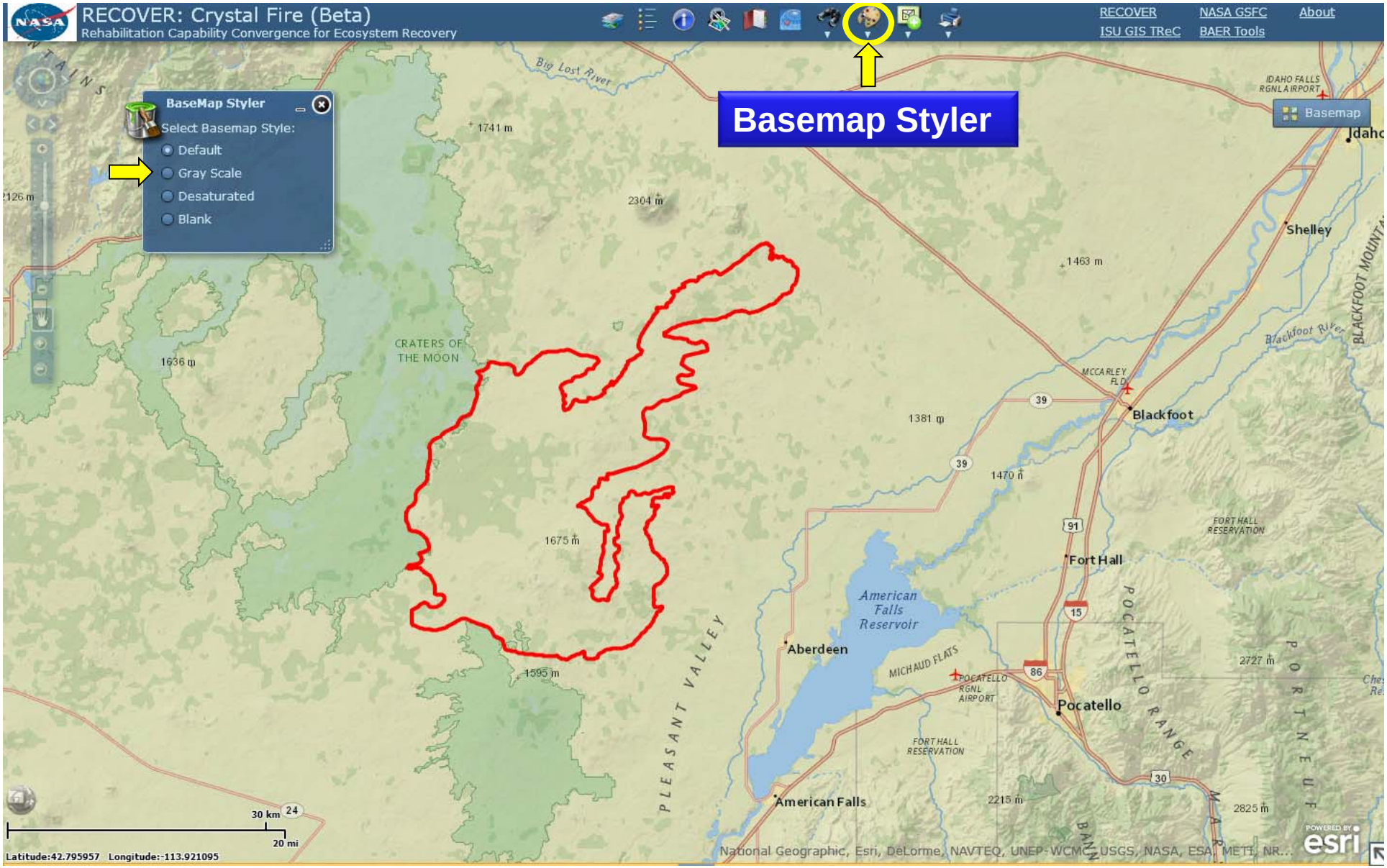
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Gray Scale
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Blank
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Blackfoot
Fort Hall
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FORT HALL RESERVATION
MICHAUD FLATS
POCATELLO RGNL AIRPORT
IDAHO FALLS RGNL AIRPORT
MCCARLEY FLD
1741 m
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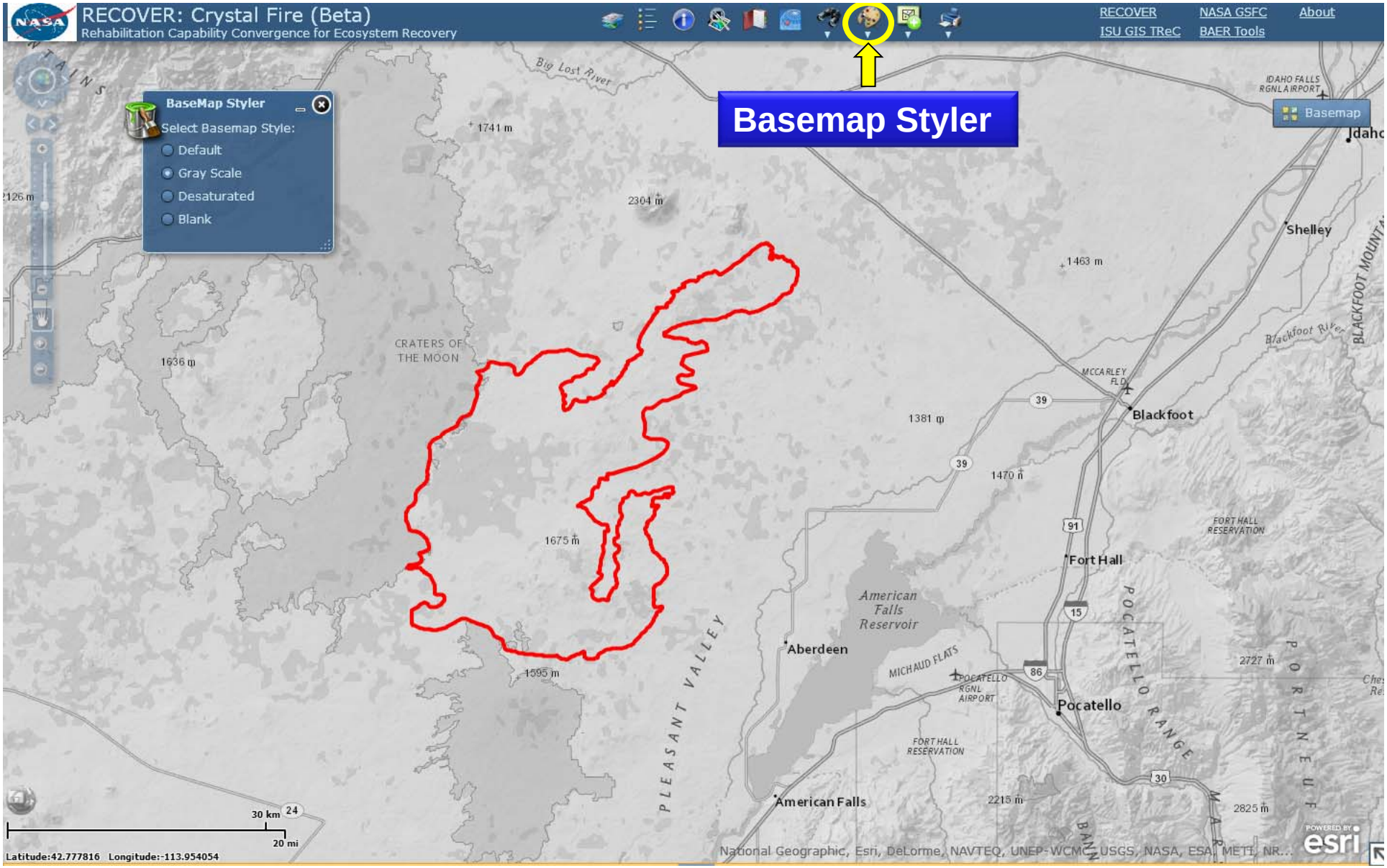
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1741 m
2304 m
1463 m
Shelley
IDAHO FALLS RGNL AIRPORT
CRATERS OF THE MOON
1636 m
1675 m
1595 m
1381 m
1470 m
MCCARLEY FLD
Blackfoot
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PLEASANT VALLEY
MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
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2727 m
2215 m
2825 m
American Falls
39
91
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86
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20 mi
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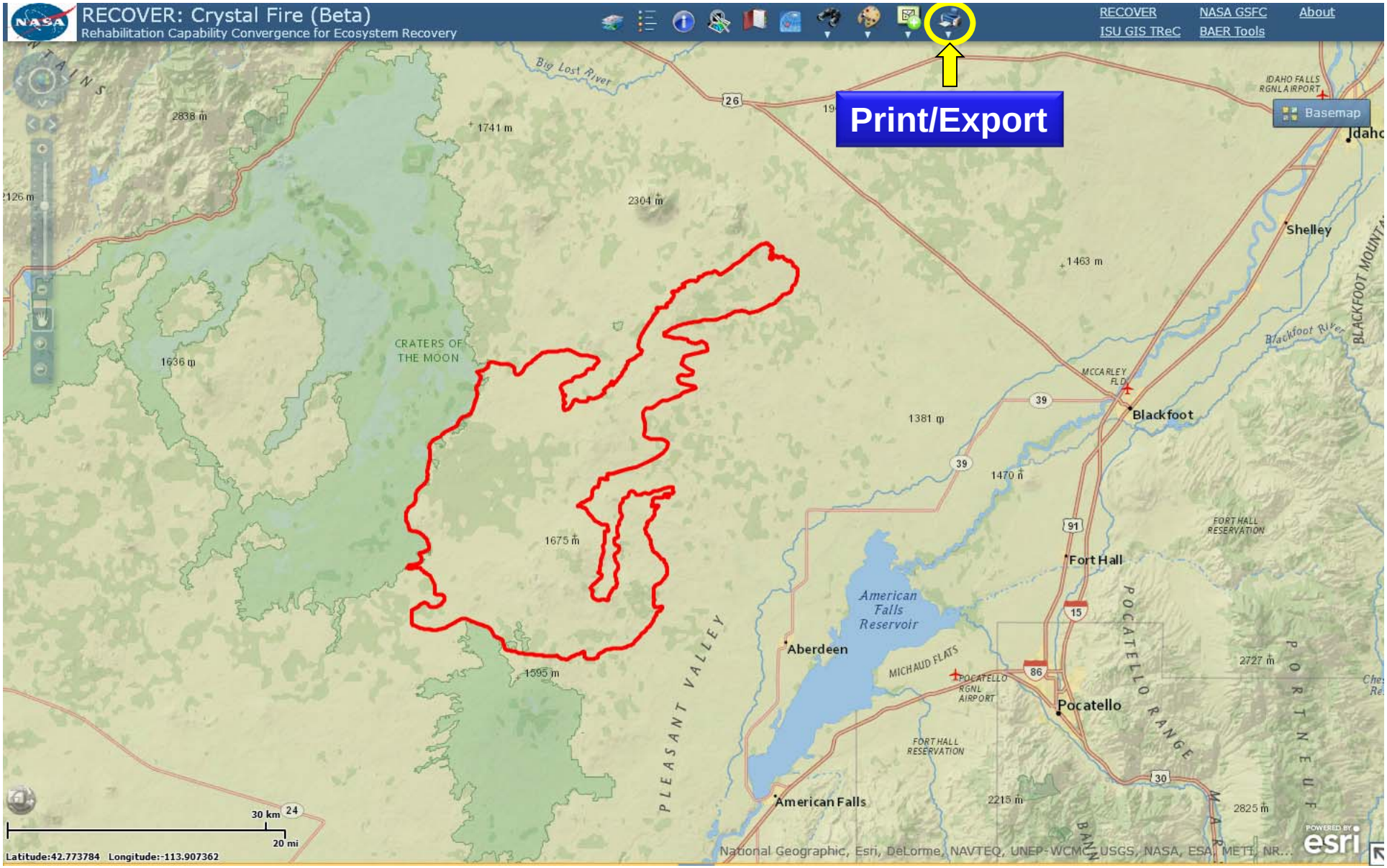
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2304 m
1463 m
1636 m
CRATERS OF THE MOON
1381 m
1470 m
1675 m
1595 m
Shelley
Blackfoot
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BLACKFOOT MOUNTAINS
MCCARLEY FLD
IDAHO FALLS RGNL AIRPORT
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MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
2727 m
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30 km
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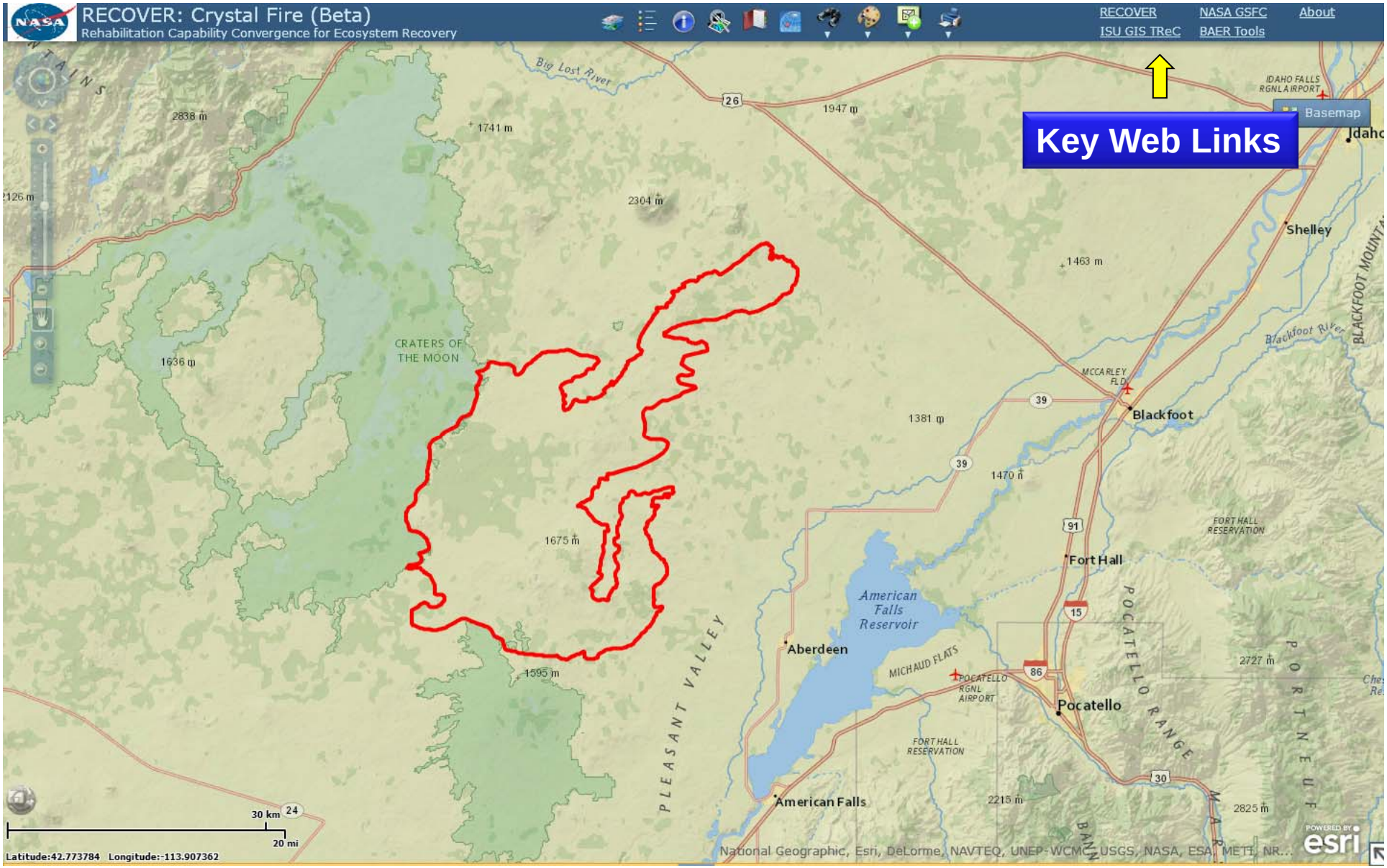
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1741 m
2838 m
2304 m
1463 m
Shelley
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Idaho
BLACKFOOT MOUNTAINS
Blackfoot River
CRATERS OF THE MOON
1636 m
MCCARLEY FLD
Blackfoot
39
1381 m
1470 m
91
FORT HALL RESERVATION
Fort Hall
1675 m
American Falls Reservoir
15
POCATELLO RANGE
Aberdeen
MICHAUD FLATS
POCATELLO RGNL AIRPORT
86
2727 m
Pocatello
1595 m
PLEASANT VALLEY
FORT HALL RESERVATION
30
American Falls
2215 m
2825 m
BANNOCK RANGE
PORTNEUF
30 km
20 mi
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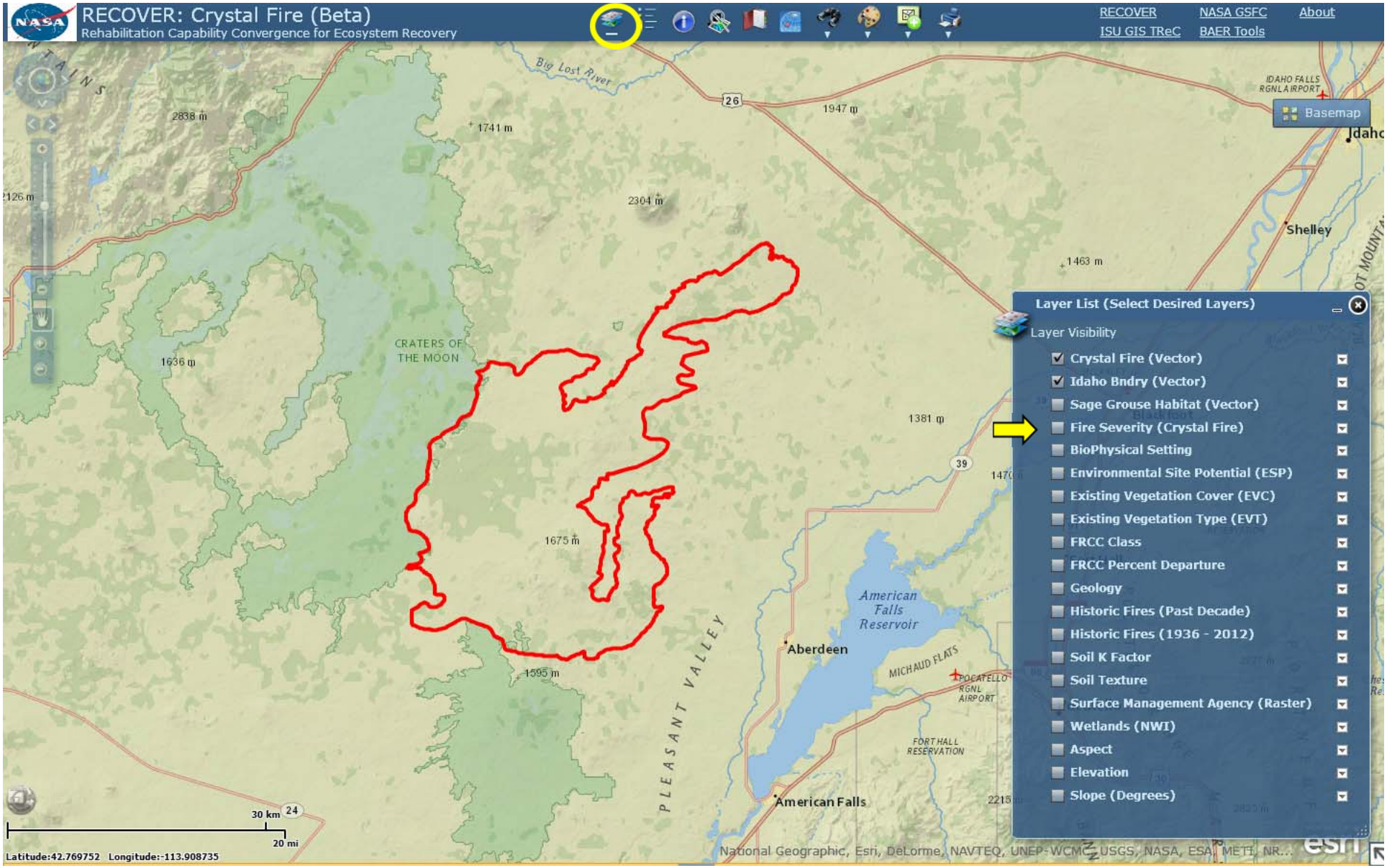
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Environmental Site Potential (ESP)
Existing Vegetation Cover (EVC)
Existing Vegetation Type (EVT)
FRCC Class
FRCC Percent Departure
Geology
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Historic Fires (1936 - 2012)
Soil K Factor
Soil Texture
Surface Management Agency (Raster)
Wetlands (NWI)
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Elevation
Slope (Degrees)
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PLEASANT VALLEY
American Falls Reservoir
MICHAUD FLATS
FORT HALL RESERVATION
Aberdeen
American Falls
Shelley
IDAHO FALLS RGNL AIRPORT
POCATELLO RGNL AIRPORT
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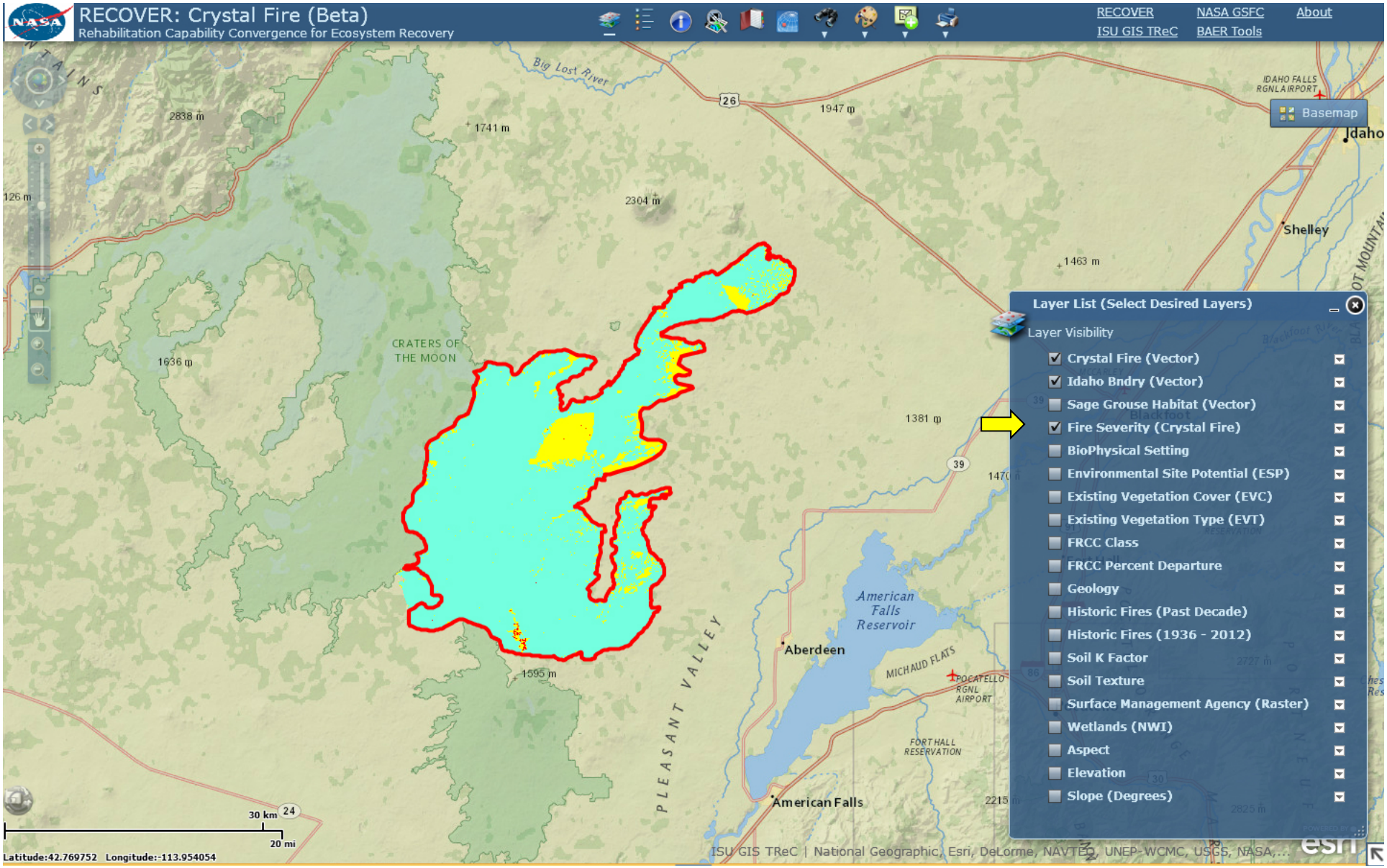
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Shelley
Idaho
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POCATELLO RGNL AIRPORT
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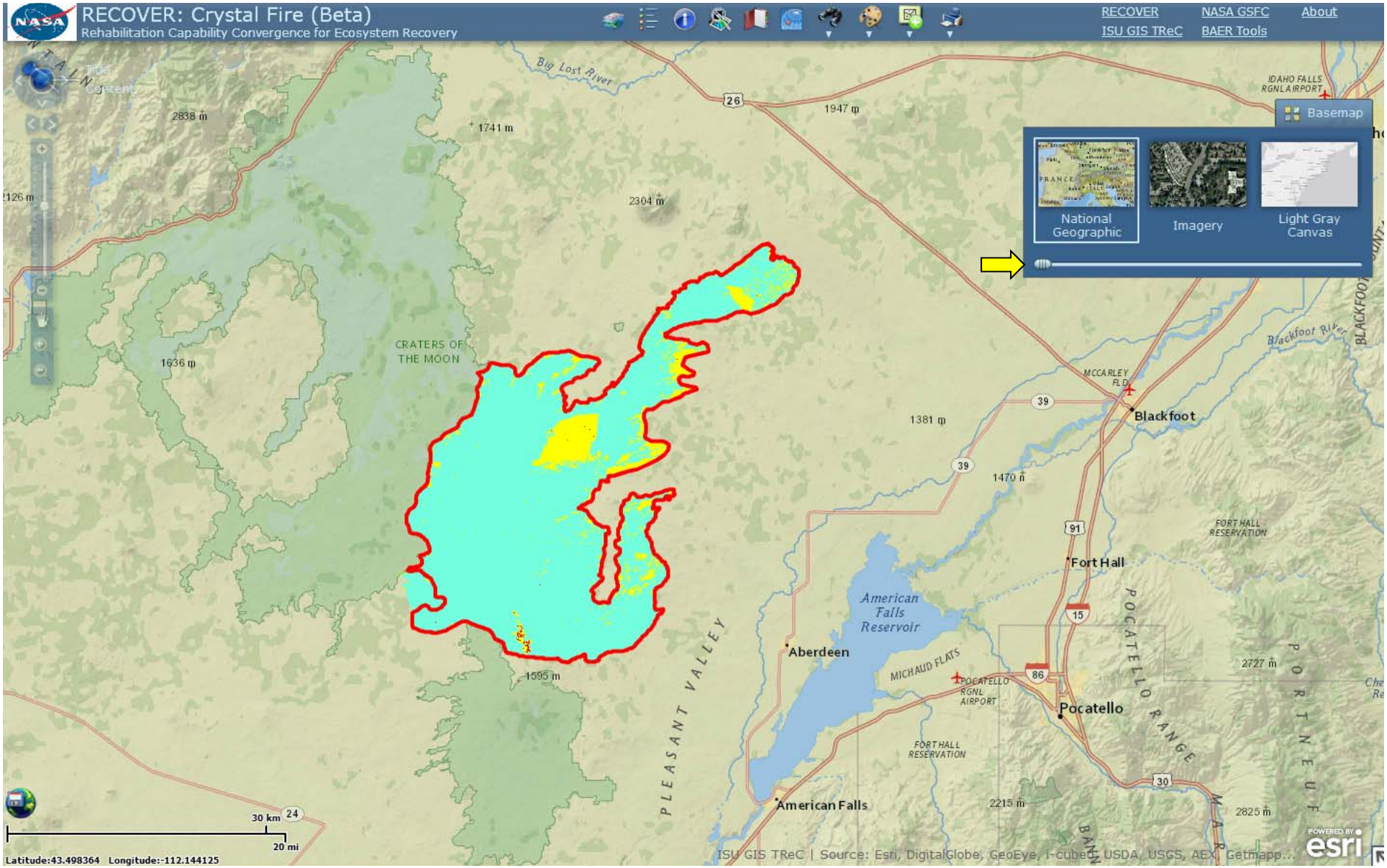
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MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
PLEASANT VALLEY
American Falls
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2215 m
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20 mi
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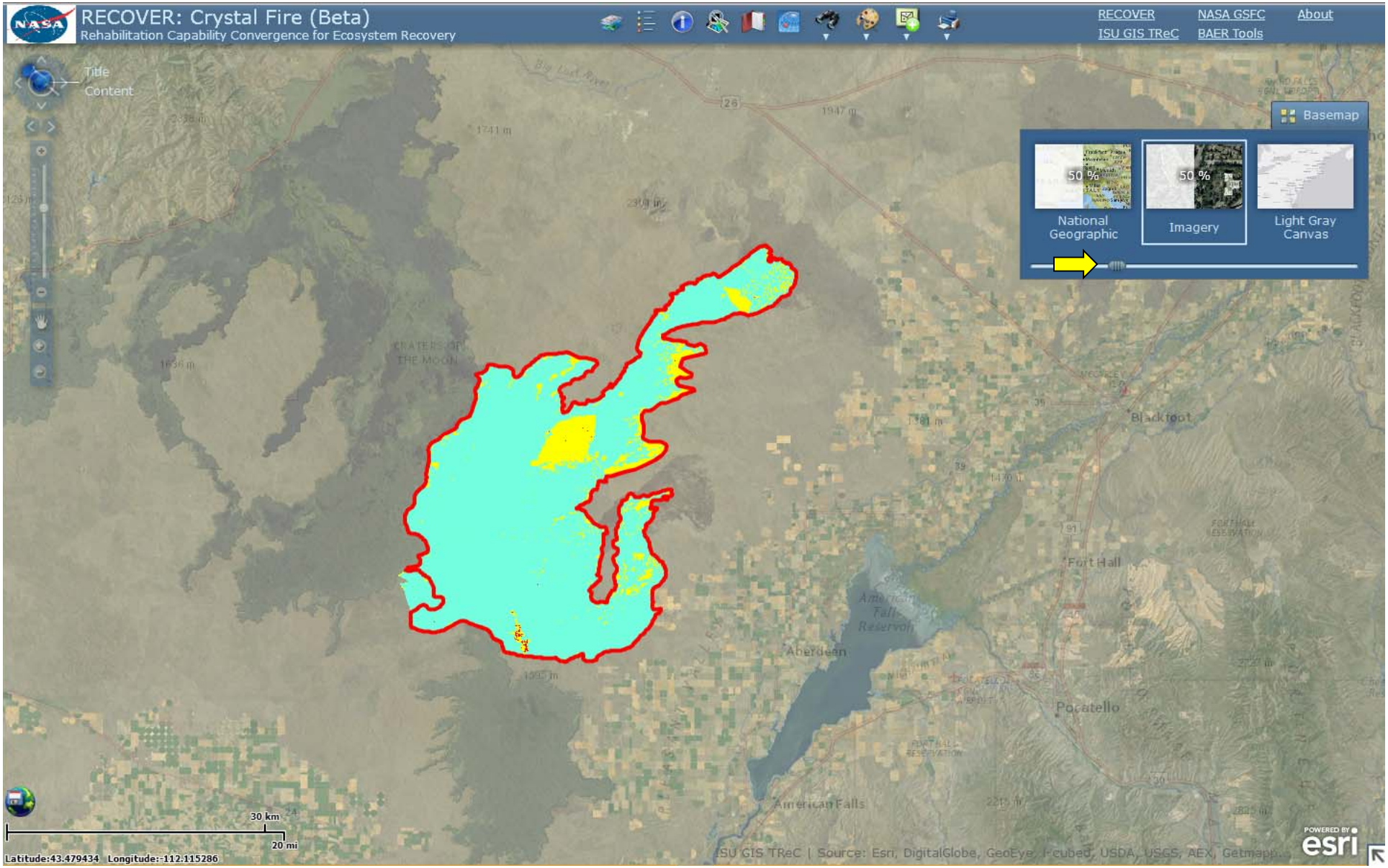
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Pocatello
American Falls
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20 mi
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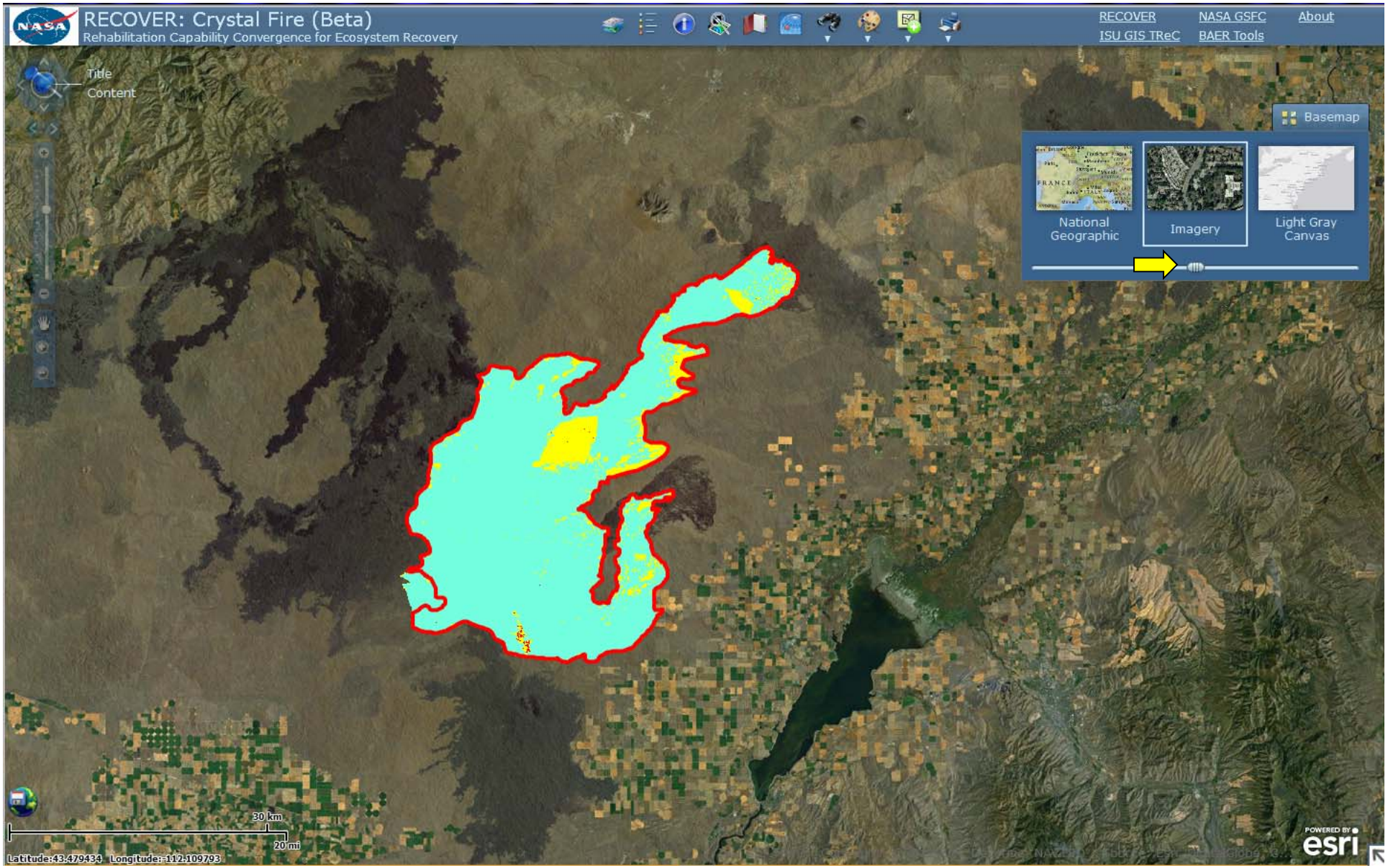
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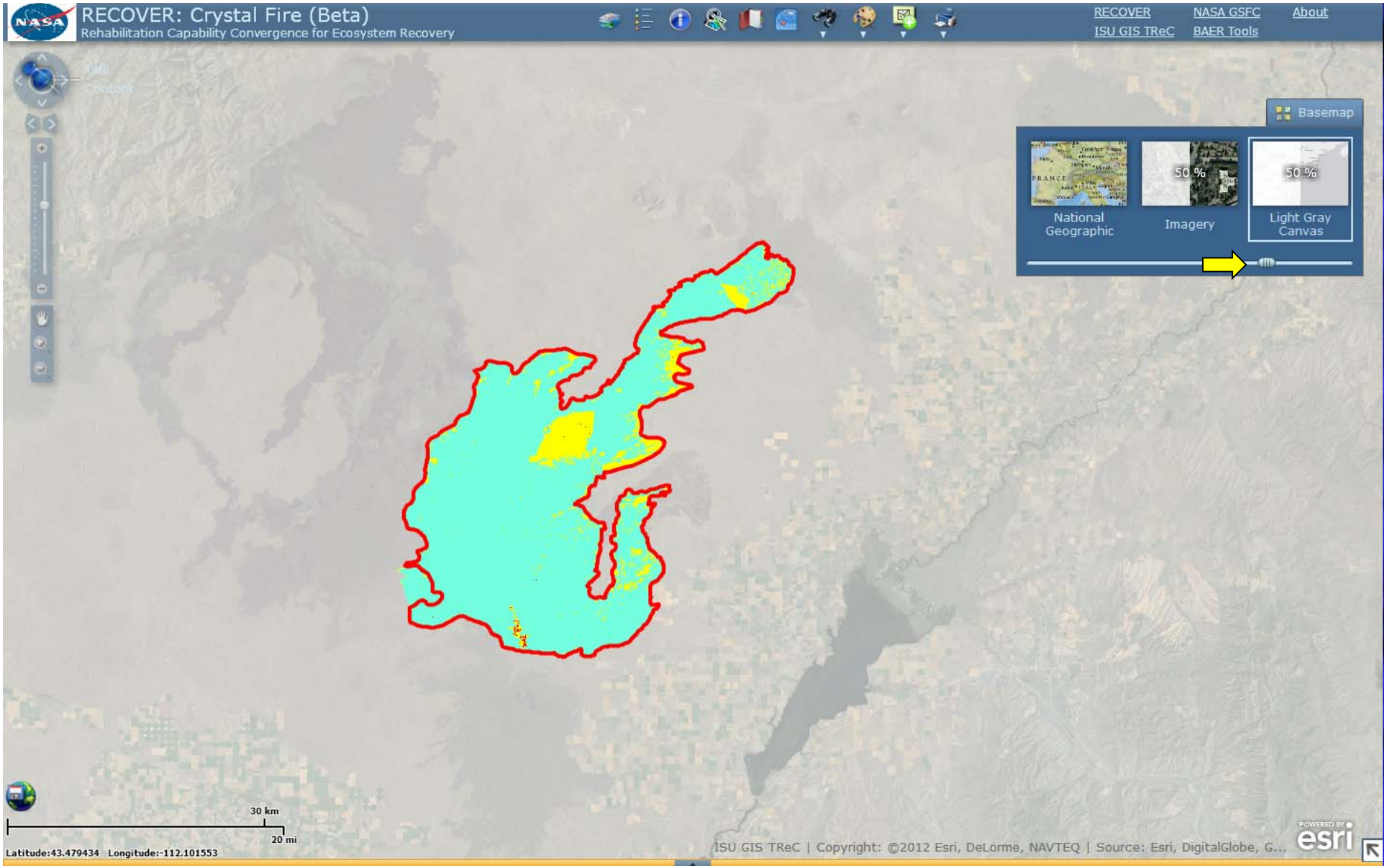
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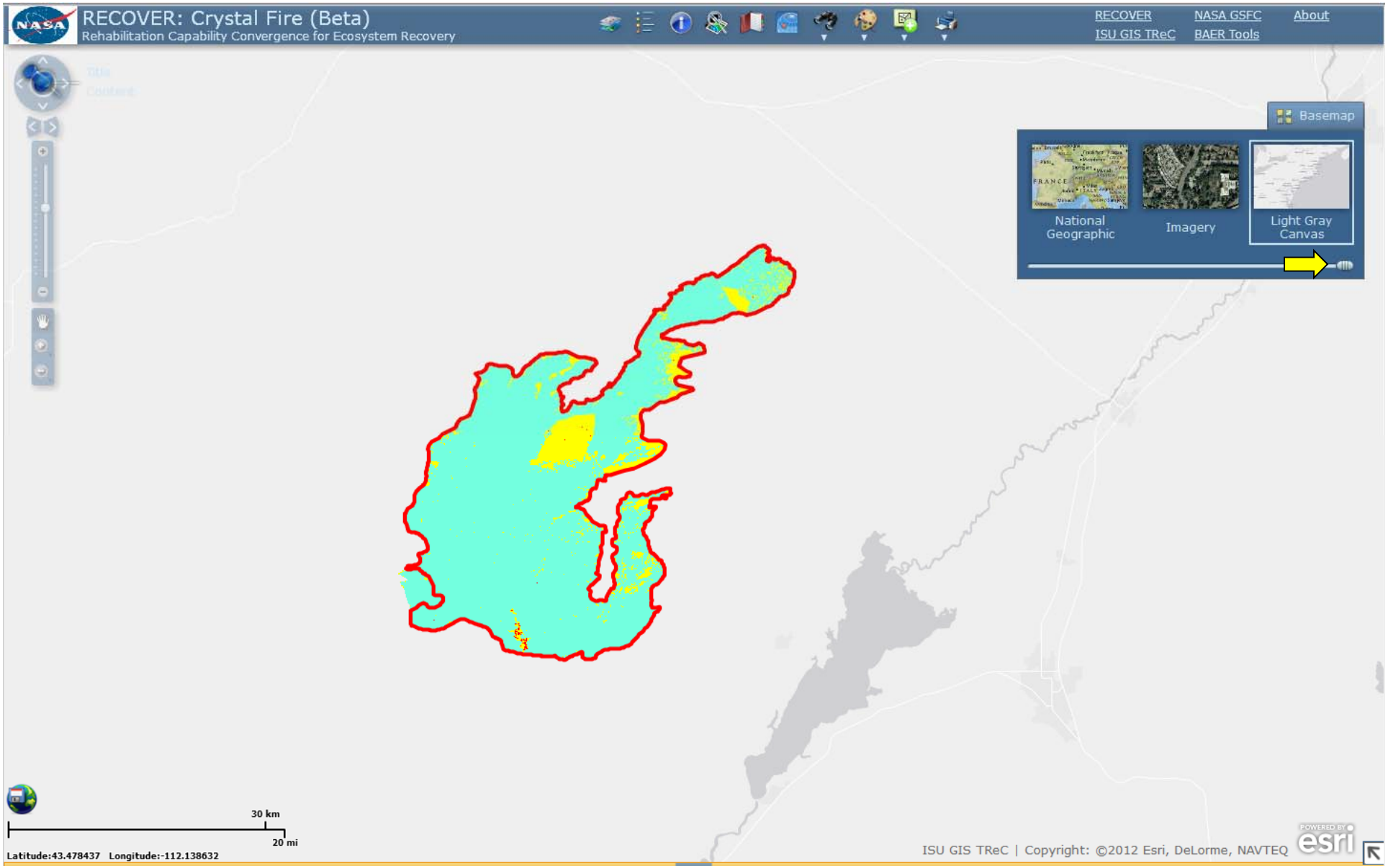
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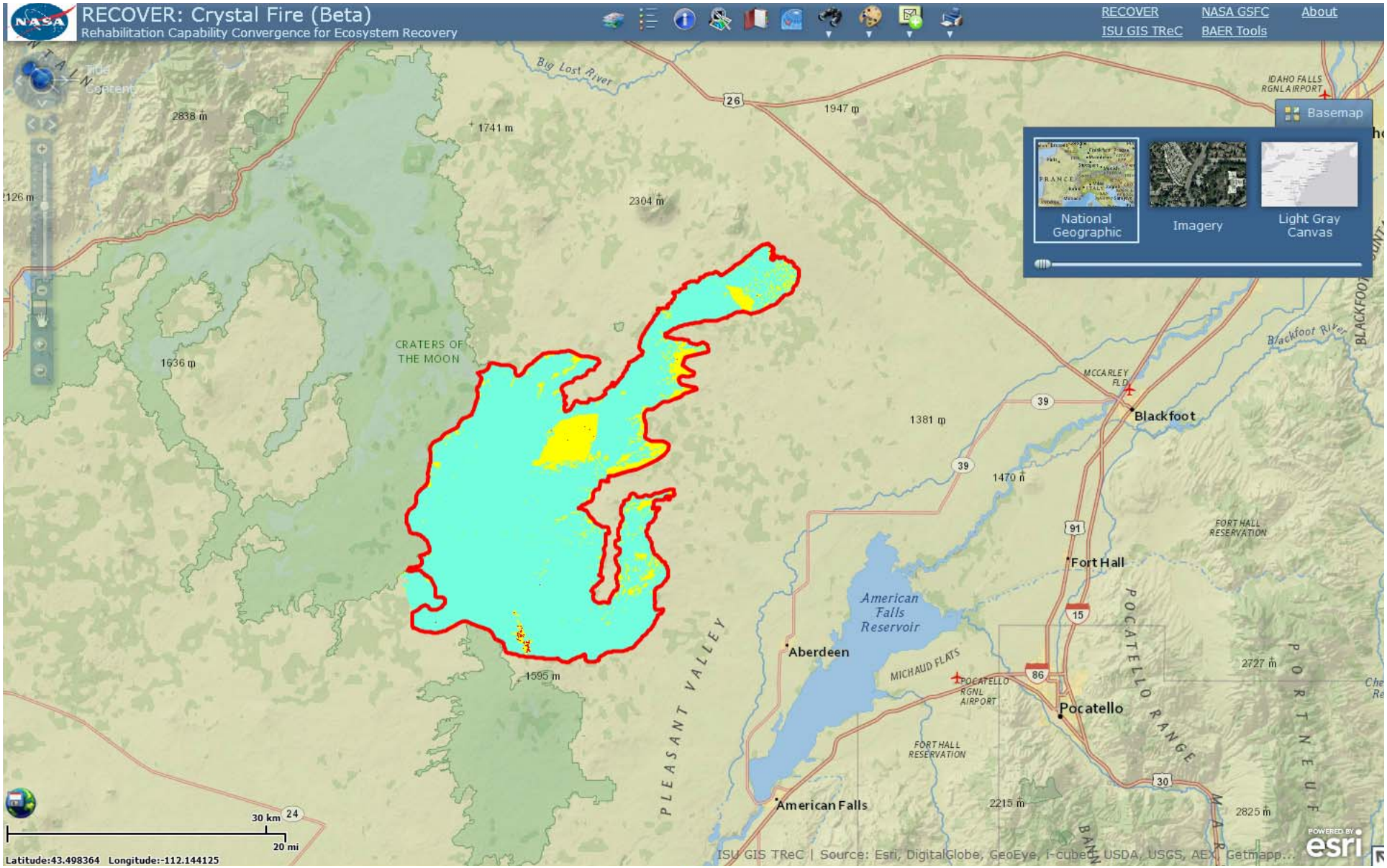
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1947 m
2304 m
2126 m
1636 m
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Blackfoot River
MCCARLEY FLD
Blackfoot
1381 m
1470 m
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MICHAUD FLATS
POCATELLO RGNL AIRPORT
Pocatello
POCATELLO RANGE
PORTNEUF
2727 m
PLEASANT VALLEY
1595 m
American Falls
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30 km
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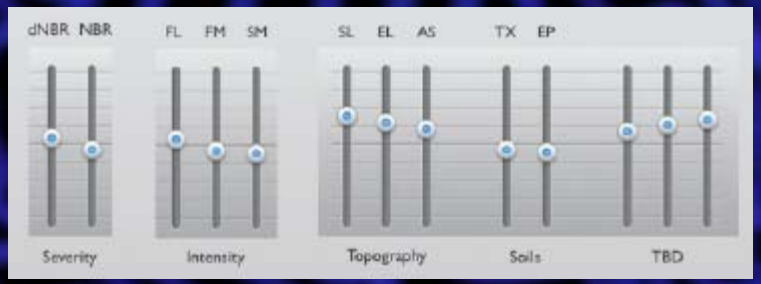
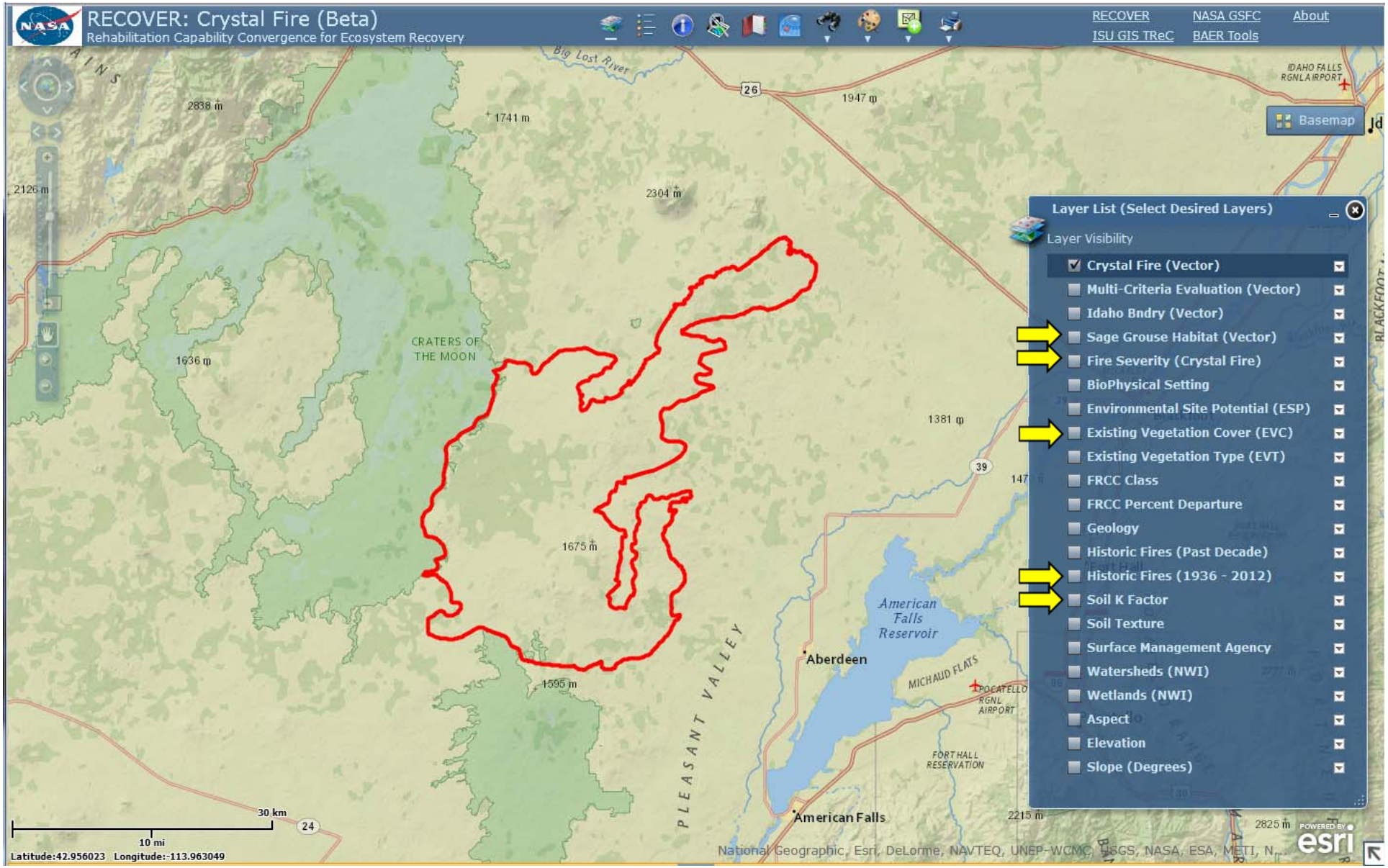
Multi-Criteria Elevation Widget

- Custom analysis widget
  - End-user assigns weights to selected layers
  - Weights calculated via a geoprocessing service
  - Map symbology is updated to reflect changes

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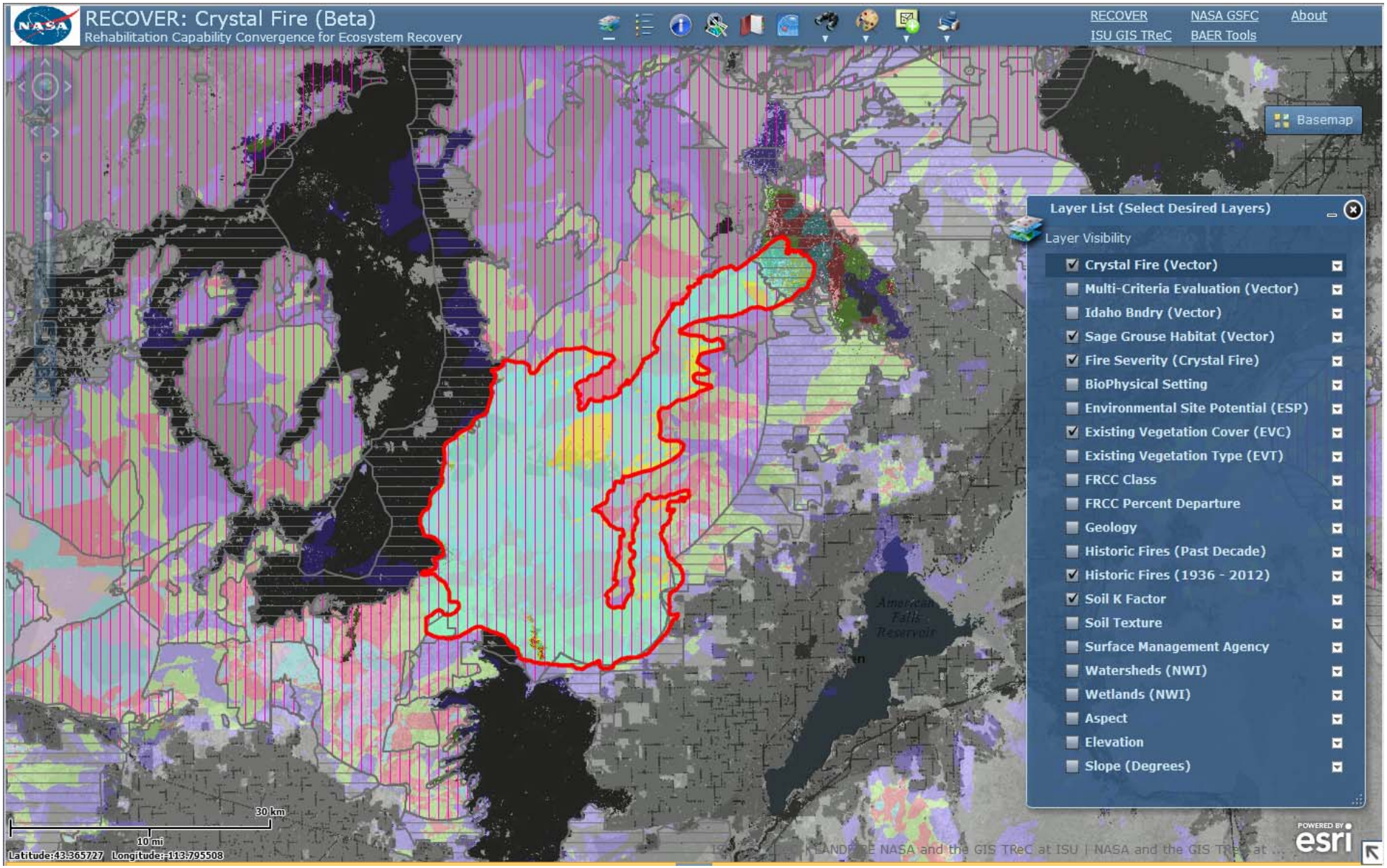
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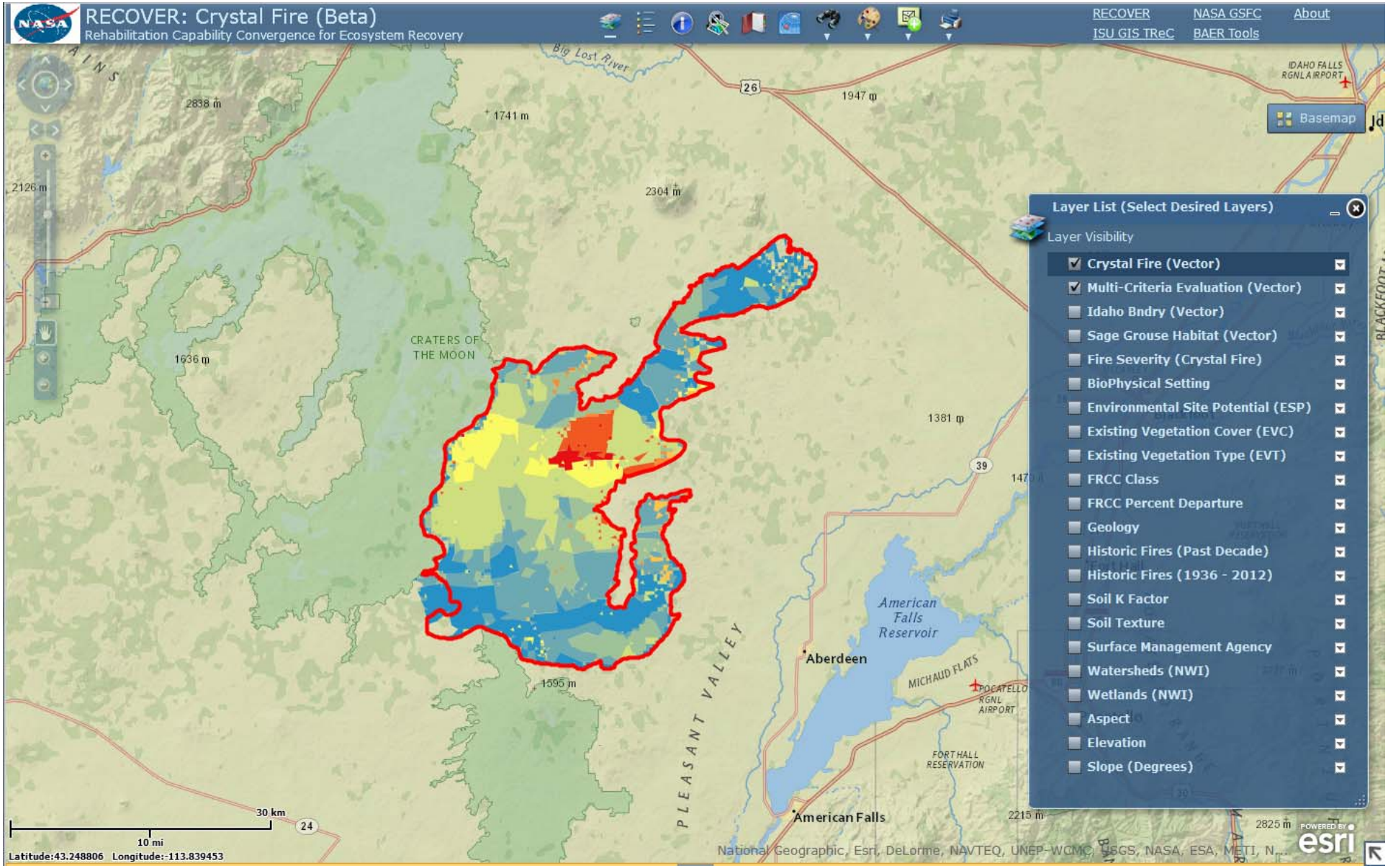
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IDAHO FALLS RGNL AIRPORT
Big Lost River
30 km
10 mi
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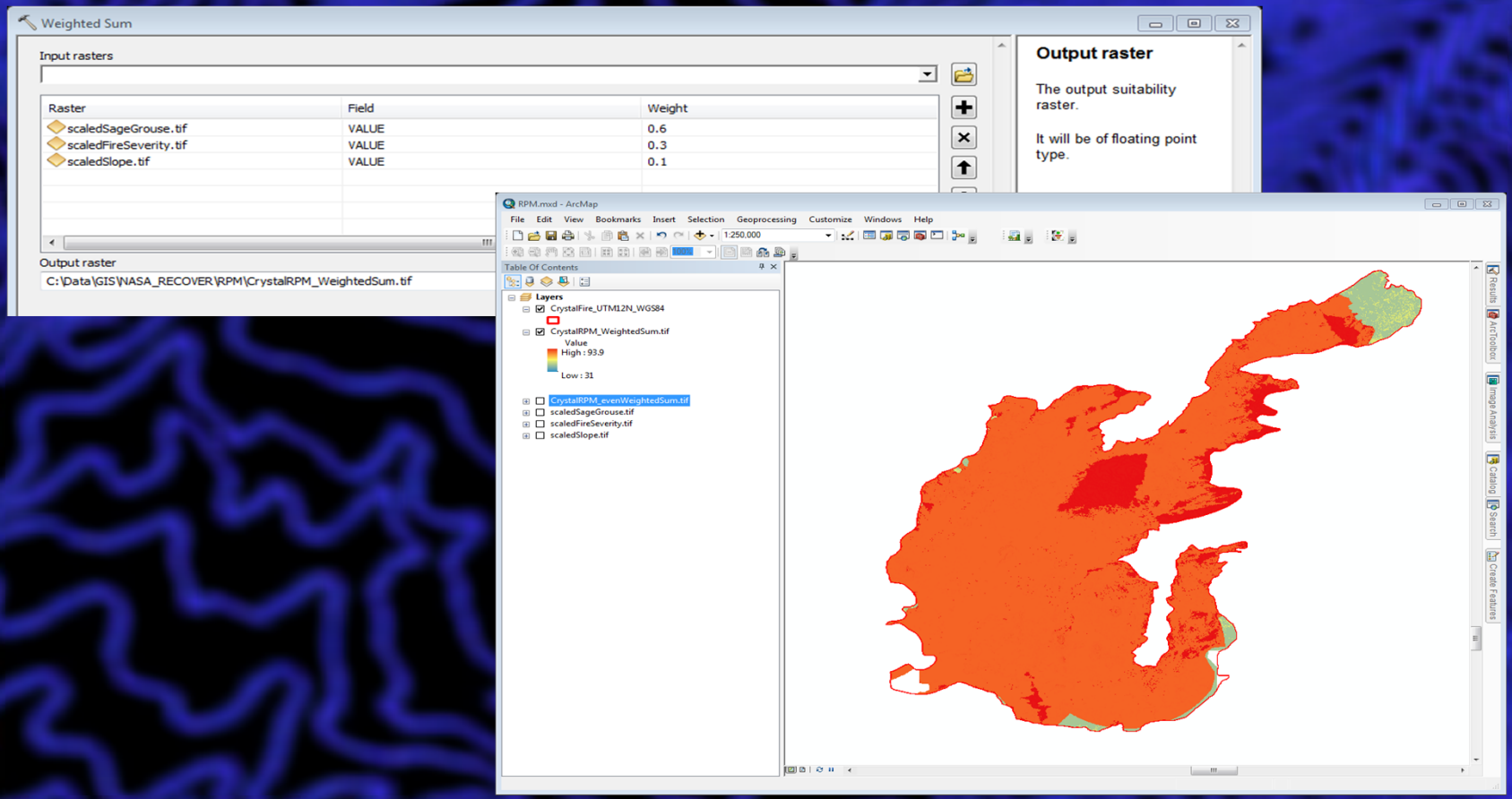
Using a Weighted MCE



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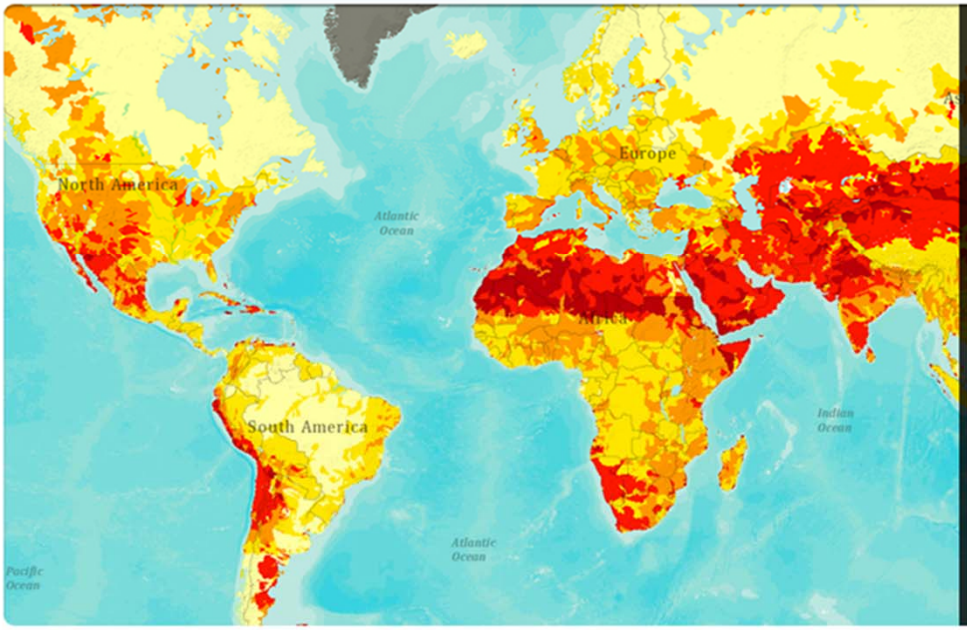
Measuring, mapping, and understanding water risks around the globe



Aqueduct's global water risk mapping tool helps companies, investors, governments, and other users understand where and how water risks and opportunities are emerging worldwide.

Launch the Maps →

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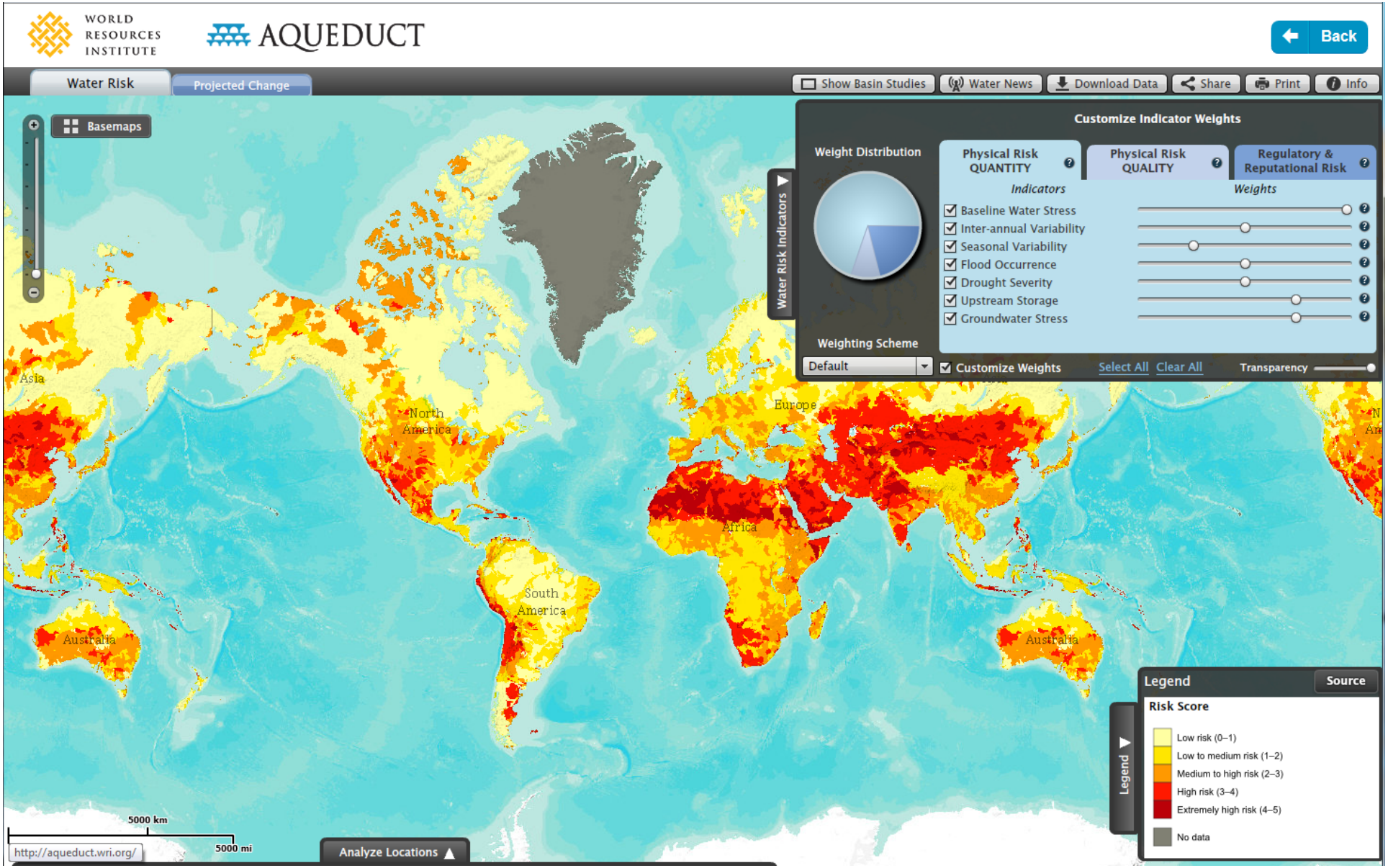
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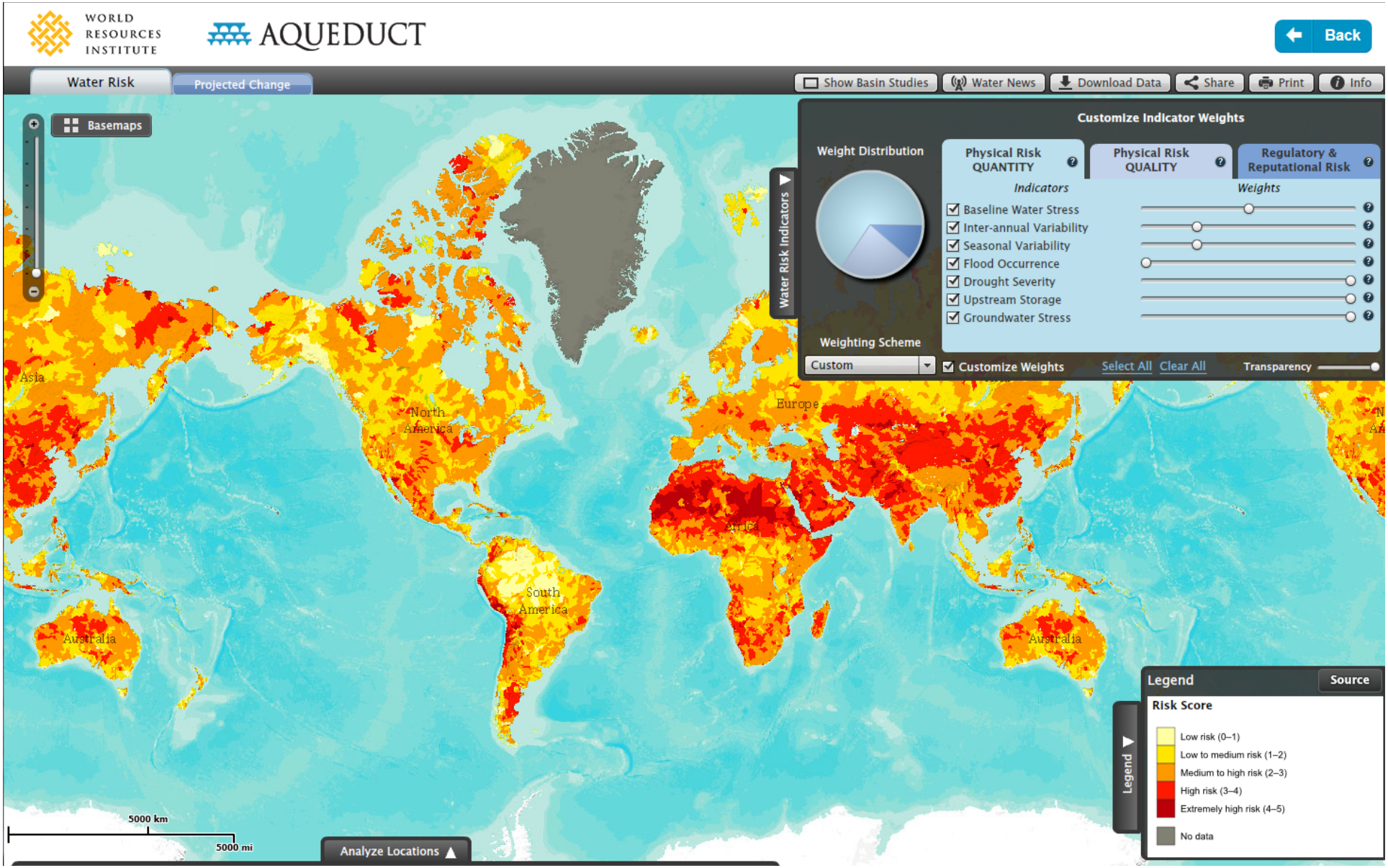
Analyze Locations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Europe
Africa
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Australia
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Low to medium risk (1–2)
Medium to high risk (2–3)
High risk (3–4)
Extremely high risk (4–5)
No data
Legend

Future Options

- Apps for tablets and mobile devices
  - (initially focusing on iPads and Android based devices)
- Additional spatial analysis tools/widgets

Questions?

- http://giscenter.isu.edu/research/Techpg/nasa_RECOVER
- haskgeor@isu.edu
- webekeit@isu.edu