The Iris Project at Five Years:

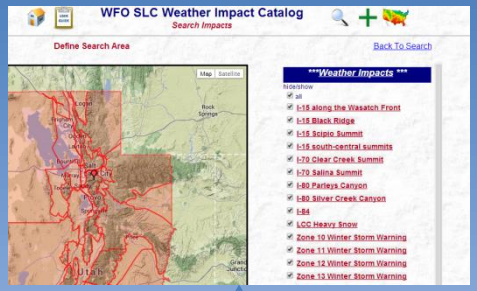
How a Grassroots Rapid Prototyping Project has Grown to Support NWS Operational Needs

Where did Iris come from?

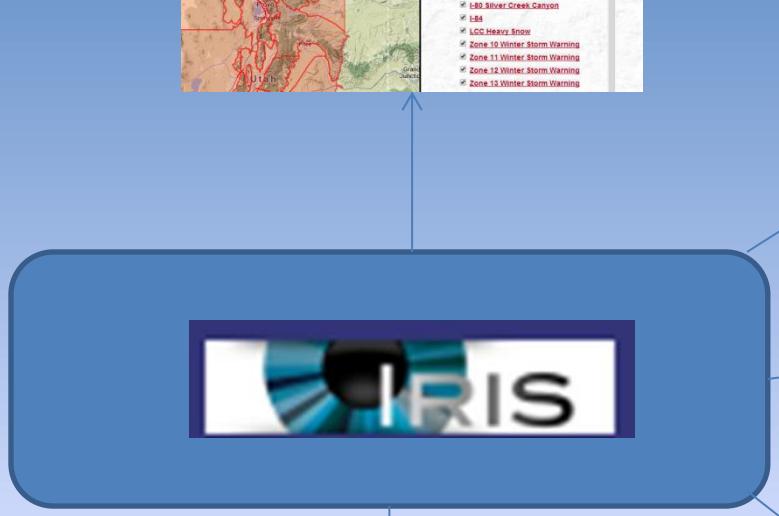
- Iris grew from a series of separate, but related projects during the period 2008 to 2010.
- Developers saw a need to standardize a framework to provide consistent data storage and georeferencing capacity for contact, impact, event, and communications data used by the NWS.
- The Iris team has always been virtual: field offices, regional offices, and now headquarters.

What can Iris do?

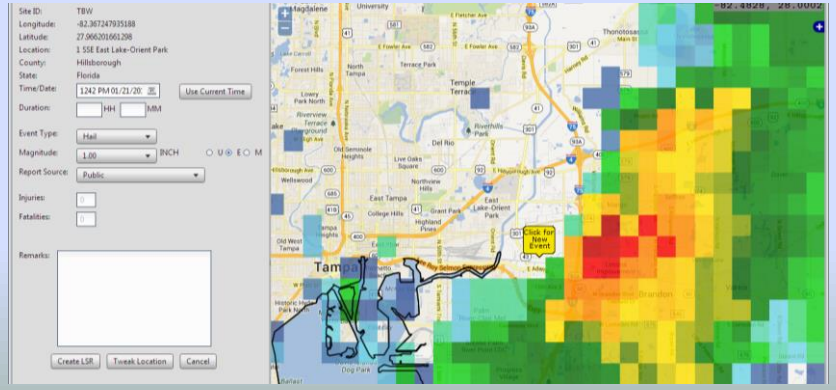
- Manage all contacts for an office, including NWS specific data.
- Display all observations in an are of concern, rank them in anyway needed, display criteria alerts, and directly create LSR text products from observations.
- Generate storm reports is any format desired by clicking on a map.
- Provide a heads up display for situational awareness use mashing together warnings, reports, and contacts on a map.
- Drives iNWS to alert customers to warnings, and powers Wireless Emergency Alerts to provide cell phone alerts to the public.
- Full impact management capabilities are now in development.


WFO SLC Weather Impact Catalog
Search Impacts
Define Search Area
Back To Search
***Weather Impacts ***
I-15 along the Wasatch Front
I-15 Black Ridge
I-15 Scipio Summit
I-15 south-central summits
I-70 Clear Creek Summit
I-70 Salina Summit
I-80 Parleys Canyon
I-80 Silver Creek Canyon
I-84
LCC Heavy Snow
Zone 10 Winter Storm Warning
Zone 11 Winter Storm Warning
Zone 12 Winter Storm Warning
Zone 13 Winter Storm Warning

iNWS - Interactive NWS
National Weather Service Mobile Decision Support Services (MDSS)
iNWS MOBILE ALERTING
Receive customized text message and e-mail alerts for National Weather Service products that you care about.
Welcome.
Recent News.


IRIS

Wireless Emergency Alerts
Share/Email This Page
WIRELESS EMERGENCY ALERTS CAPABLE TM


Site ID:
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Location:
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Time/Date:
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Event Type:
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Create LSR
Tweak Location
Cancel
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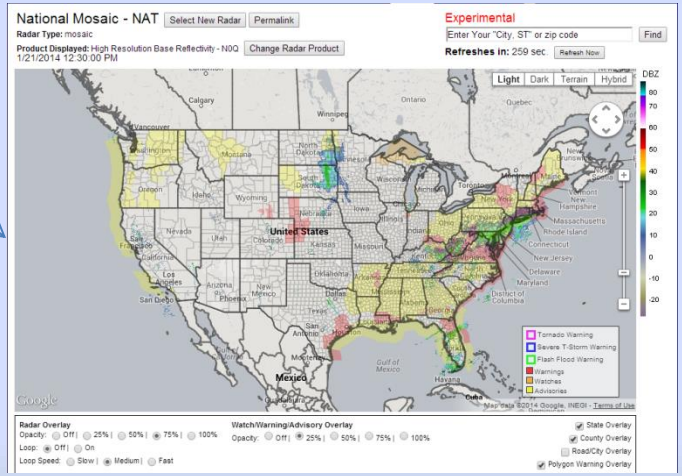
National Mosaic - NAT
Select New Radar
Permalink
Radar Type: mosaic
Change Radar Product
Experimental
Refreshes in: 259 sec
Light
Dark
Terrain
Hybrid
United States
Mexico
Tornado Warning
Severe T-Storm Warning
Flash Flood Warning
Warnings
Watches
Advisories
Radar Overlay
Watch/Warning/Advisory Overlay
State Overlay
County Overlay
Road/City Overlay
Polygon Warning Overlay

So, what is Iris?

- At the core, Iris is a PostGIS enabled Postgresql database.
- Wrapped around the database is the Iris framework, providing methods for storing and retrieving the stored information via web services.
- Using the framework are clients like the Iris Web Interface, iNWS, and others.

Iris and the Virtual Lab

- The Iris team heavily uses the Virtual Lab Redmine and Jenkins development tools.
- The Iris Web application actually opens directly to the Redmine ticketing system to allow users to open tickets (works great!)
- All source code is managed by the Virtual Lab git repository.
- Framework builds and Java documentation is automatically generated upon commit.

Let’s have a look:

http://iris-devweb.crh.noaa.gov/index.html?wfo=arx

https://collaborate3.nws.noaa.gov/projects/iris?jump=welcome