

US Forest Service
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Fire & Aviation Management

R5 FAM GIS Presentation

GISS Intermediate 2016

Fire & Aviation Management
Fire GIS Lab

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FAM, U. S. Forest Service



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FAM GIS Lab – Presentation Overview:

- Who the FAM GIS Lab Supports
- What the Lab does
- GIS Data & Products
- Training
- Mobile Technology development, testing and support
- Coordinate Watch Outs – Decimal Minutes, NAD/WGS, USNG
- How/Where to find out more

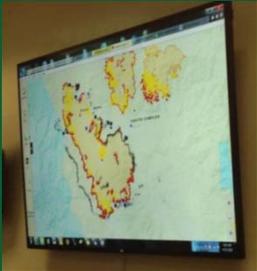
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FAM GIS Lab – support for:

- FAM Regional Office – Vallejo & McClellan
- Region 5 Forests – data aggregation, analysis
- NorthOps & SouthOps – Intel, Weather, Dispatch
- Type I & II Teams – primarily Plans – GISS & SITL
- Aviation – requested products & analysis
- National Support – NIFC, NWCG, etc.



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FAM GIS Lab – Pre-staging equipment & data:



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FAM GIS Lab – Pre-staging equipment & data:

USFS R5 HP z5400 plotters
Preparation for delivery to fire caches (1-3 North Ops; 4-6 SouthOps; 7 McClellan):

Plotter stands were removed. These could not be put into the box without damaging the plotter. They are at McClellan.




I fabricated wooden blocks with safety keys for the plotters to be placed safely on top of the crates. These will allow use of both paper rolls with 300' of paper in each roll. The plotters sit on top and the crate can easily be rolled around as needed.




USFS R5 HP z5400 plotters (continued)

I stained the wooden blocks black to match the crates, white stenciled to provide tracking and instructions were applied, additional packing and shipping information attached.




The crates were loaded with the plotters, all contents double checked. Cache Managers contacted and prepared for shipping.










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FAM GIS Lab Data –

- Fire uses & consumes all imagery, all roads, parcels, ownership, etc.
- Aviation Hazards** - Standards – USFS & NIFC, Forest Maps, California Atlas
- Fire Retardant Avoidance** – Hydrology, Threatened, Endangered, Sensitive species
- Fire Perimeters & History** (Standards – USFS & NIFC)
- Fire Occurrence (FIRESTAT) – Point of Origin (Standards – USFS, NIFC, CAL FIRE)
- Fire Management Units (FMU) (Standards – USFS & NIFC)
- Fire Base Stations**
- Direct Protection Areas (DPA)** – All federal agency protection areas
- Wildland Urban Interface (WUI) (Standards – USFS & NIFC)
- Fire Engine Water Sources (Standards – USFS & NIFC)
- Burned Area Emergency Response/Rehabilitation
- And more to come.....




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FAM GIS Lab Data –

- Fire uses
- Aviation
- Fire Resources
- Fire Planning
- Fire Occurrence
- Fire Management
- Fire Behavior
- Direct Fire
- Wildland
- Fire Engine
- Burned Area
- And more

GISS HD – Data updates planned:

- Fire History,
- NHD/WBD,
- Transportation,
- And many more....

NEW ADDITION:
Timber Industry Datasets – new additional this year.

DISTRIBUTION GUIDANCE being provided -
Hard Drives are intended for Incident Management Team support.
CAL FIRE GISS HD should never be copied.

Atlas
Sensitive species




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FAM GIS Lab - Training:

- GIS Specialist for Incident Management – S-341**
- Intermediate GISS – 2012 – 2015, 2016 NOW–** includes using mobile technology.
- GPS For Fire Management – 2012 - 2015**
- Wildland Search and Rescue (WiSAR)**
- Unmanned Aerial Systems for Managers 2015**
- Webinars – GISS HD (May), more AGOL, BAER, etc.**

****Training can be developed to meet specific needs – contact Lorri.**





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FAM GIS Lab Map Products:

- Aviation Hazards Maps – available at:**
http://ftp.nifc.gov/incident_specific_data/calif_n/z_Aviation/
http://ftp.nifc.gov/incident_specific_data/calif_s/z_Aviation/
- Fire Retardant Avoidance Maps –**
http://ftp.nifc.gov/incident_specific_data/calif_n/z_Aviation/0_FireRetardantAvoidance_USFS_R5_only/
- Other products (Base Stations, DPA, web maps, etc.)**
http://ftp.nifc.gov/incident_specific_data/calif_n/z_Aviation/
http://ftp.nifc.gov/incident_specific_data/calif_s/z_Aviation/





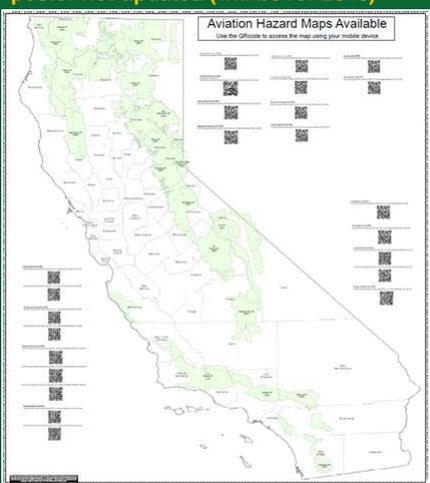
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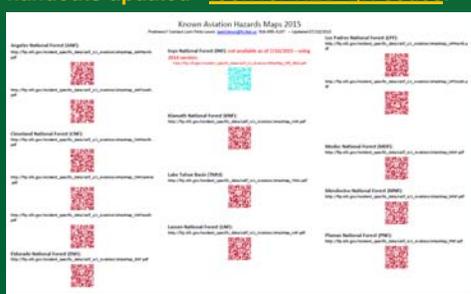
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Aviation Hazards by Forest – all available on line in 2015 –

poster not updated (will be for 2016) handouts updated - look for RED QR codes!



Aviation Hazard Maps Available
Use the QR codes to access the map using your mobile device.



Known Aviation Hazards Maps 2015

Web, iOS, & Android usable – tip sheet(s) available – contact Lorri:



PDF Maps
Get the App. Get the Map.™

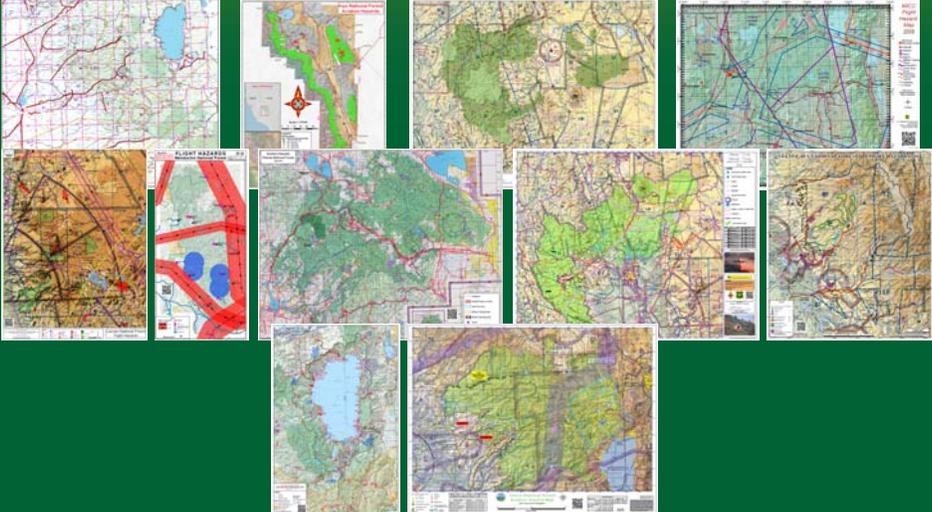
Winner of multiple awards including:
 - Best Map Product Worldwide in 2011
 - Best Maps for Mobile Application
 - New Technology & New Media Award
 - Technology Innovation Award for Mobile Mapping

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Aviation Hazards Maps – mixed standards in Region 5 – working on:

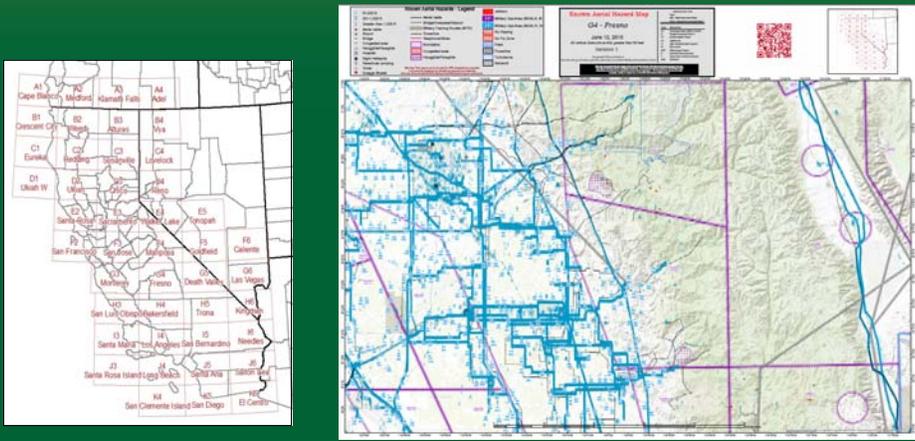


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Aviation Hazards Atlas for California –
look for RED QR codes!

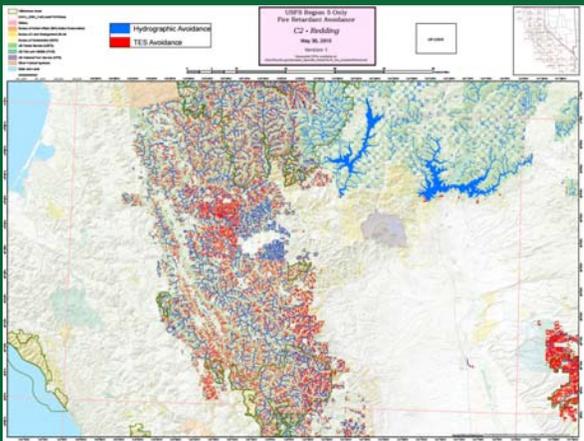
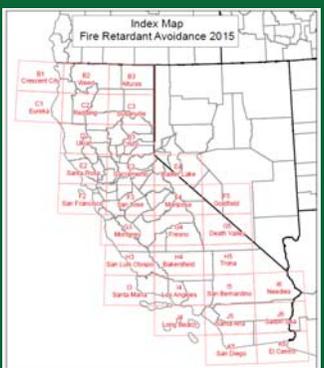


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Fire Retardant Avoidance Atlas for California –

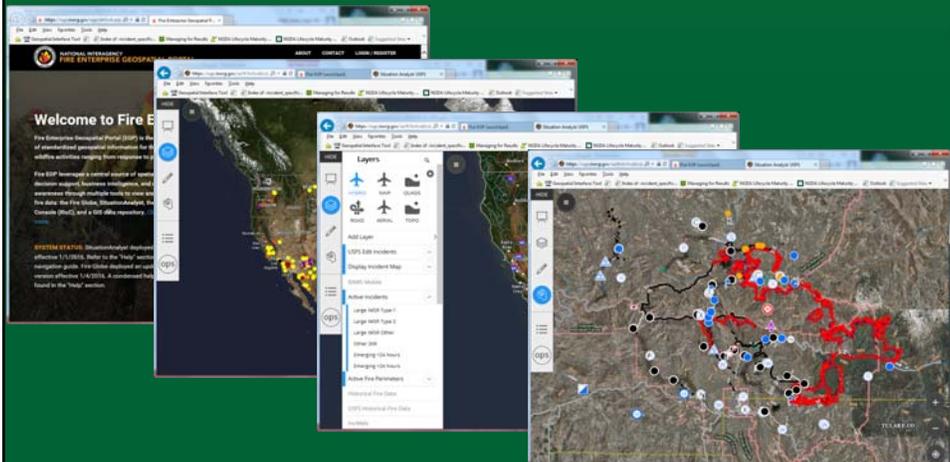


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NIFC Enterprise Geospatial Portal (EGP) – Situation Analyst: Fire & Emergency Responders – requires a login/password – go here to get one: <https://egp.nwcg.gov/egp/default.aspx>



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USFS ArcGIS On Line (AGOL)

USFS only currently – requires a login/password – contact Lorri for assistance:
<http://usfs.maps.arcgis.com/apps/webappviewer/index.html?id=18b55799031942ea8c0c10714ccdaf20>

You Tube training videos (open to everyone):
<https://www.youtube.com/watch?v=KU3Cd280n-I&list=PLT4uA21mNNvebdQaVacSPjC7fGC0XsjC3>



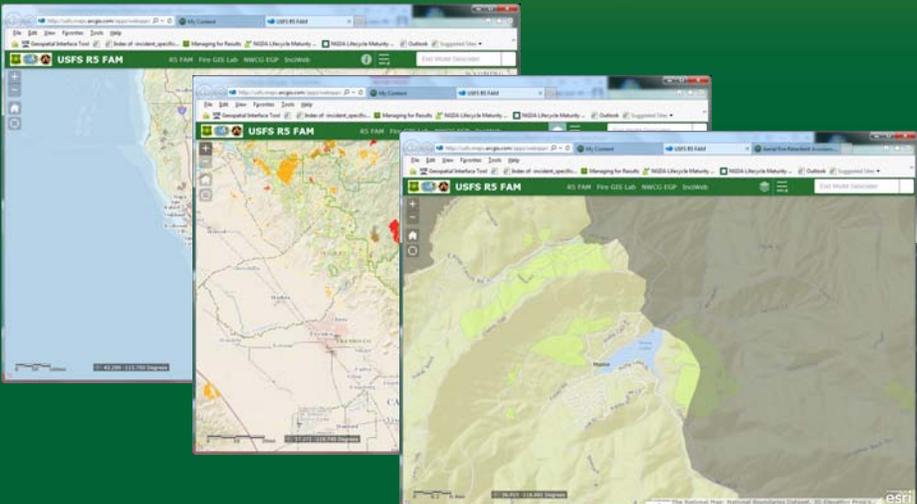
The screenshot shows the ArcGIS Online interface for the US Forest Service. It features a header with the USFS logo and navigation tabs for Home, Gallery, Map, Scene, and Groups. Below the header is a large banner image with the text "U.S. FOREST SERVICE Caring for the land and serving people". Underneath the banner are four small thumbnail images representing different map applications. At the bottom of the page, there is a "Welcome to the U.S. Forest Service on ArcGIS Online" message and a brief description of the service.

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ArcGIS On Line (AGOL)



The image displays three overlapping screenshots of the ArcGIS Online map viewer. Each screenshot shows a different map view of the same geographic area, likely a forested region. The maps are overlaid with various data layers, including what appears to be fire risk or management zones. The interface includes standard ArcGIS navigation tools like zoom in/out, pan, and a search bar. The top of each screenshot shows the browser address bar and the application title "USFS RS FAM".

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Mobile Technology Activities

iPad demo if there it time...



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QUESTIONS

Contact for more: lpeltzlewis@fs.fed.us
Twitter: [@lapeltz](https://twitter.com/lapeltz)
Blog: <http://www.lapeltz.com/>



