Near-time flow
in the age of megafires

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“in the future people in the command post would be able to see the precise position of each firefighter”, via a GPS receiver, as well as the current spread of the fire. They would also have access to information like calculated safe zones to which firefighters could retreat and the time it would take to get an injured firefighter to medical care.
Technology isn't tomorrow it's today
Training
Pre-Fire Planning Maps
Operations
InciNotes™

ICS 201 INCIDENT DOCUMENTATION SYSTEM
(Incident Organizer*)

InciNotes™, is the first ICS 201 documentation application for the iPad™. InciNotes™ makes incident documentation simple and easy. InciNotes™ follows the Standard Operating Procedures for Incident Commanders in Region 5 of the United States Forest Service, National Wild Fire Coordinating Group and "Red Book" - National Interagency Fire Center.

(*Incident Organizer. The Incident Organizer is an expanded version of the Incident Briefing document - ICS 201)
worldwide AVL & GPS
Augmented GeoPhotos
Decision support
## 4.12 Release - IRWIN Integration

**4.13 Release Adds Hauling Charts and NTFB Animated KMZs**


**Release 4.13 will be deployed on Training 5/14/2014 and to Production 5/15/2014.**

**NOTE:** Release 4.12 focused on functionality related to the WFDSS integration with IRWIN. It contained no user visible functionality or enhancements. When the Integrated Reporting of Wildland-Fire Information (IRWIN) program is available, it will populate incident data automatically into WFDSS, disabling some incident entry fields in the WFDSS application. At that time, administrative units should not create incidents in Production that have already been entered into a Computer Aided Dispatch system (such as WildCAD 6) or the 209 system. WildCAD 5 will still require batch uploads.

### New Functionality and Enhancements

<table>
<thead>
<tr>
<th>Feature/Enhancement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hauling Charts</strong></td>
<td>- You can now create base image versions of linear and logarithmic scale hauling charts in BFB and STFB reports. Hauling charts are available from map pages. Each hauling chart includes a legend and the ability to switch from linear to logarithmic charts using a hyperlink on the legend page.</td>
</tr>
<tr>
<td><strong>NTFB Animated KMZs</strong></td>
<td>- From the Analysis List, Fire Behavior Specialists or Super Analysts can generate animated KMZs for NTFB analyses.</td>
</tr>
<tr>
<td><strong>Incident Summary Report</strong></td>
<td>- You can now filter information for this report by agency.</td>
</tr>
<tr>
<td></td>
<td>- A new Geographic Area unit report summarizes incident information for each unit that has one or more published decisions within the Geographic Area. You can also filter this report by agency.</td>
</tr>
</tbody>
</table>
CA Geospatial PDFs downloadable links for mobile devices (and many other uses as well!):  (Hint: your GIS folks might help you plot these out if you want paper copies – be nice to them! They work very hard for you and me!)

Mobile Device needs? Download maps to your mobile device – all maps are geospatially enabled and can be downloaded using the QR code OR loaded to your device using iTunes or Google. These include Direct Protection Maps (DPA), State Responsibility Maps (SRA), Dispatch Maps, Ownership Maps, and Remote Automated Weather Station (RAWS) Maps.

Contact: Lorri Peltz-Lewis lpeltzlewis@fs.fed.us or 916-995-3107

To download all the maps (including all aviation hazard maps go here):
NORTH: ftp://ftp.nifc.gov/Incident_Specific_Data/CALIF_N/z_Aviation/
SOUTH: ftp://ftp.nifc.gov/Incident_Specific_Data/CALIF_S/z_Aviation/

Direct Protection Maps (DPA) available:
ftp://ftp.nifc.gov/Incident_Specific_Data/CALIF_N/z_Aviation/DPA2014_NoCA.pdf
name on the X: drive 1_north_ops_dpa_20140603.pdf

name on the X: drive 1_south_ops_dpa_20140603.pdf

ftp://ftp.nifc.gov/Incident_Specific_Data/CALIF_N/z_Aviation/DPA2014withOwn_NoCA.pdf
name on the X: drive 1_north_ops_dpa_own_20140603.pdf
Continuous and Dynamic Simulation
Public information
The URL http://inciweb.org used to access this site will be INACTIVE after March 1, 2014. The supported URL is http://inciweb.nwcg.gov.

# Current Incidents

Viewing 1-10 of 46 incidents sorted by MODIFIED in DESCENDING order.

Sort this table by clicking a column header. Clicking the header a second time sorts the table in the opposite direction.

You can view a specific incident by clicking the incident name.

<table>
<thead>
<tr>
<th>Incident</th>
<th>Type</th>
<th>Unit</th>
<th>State</th>
<th>Status</th>
<th>Acres</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunter Falls</td>
<td>Wildfire</td>
<td>Humboldt - Toiyabe National Forest</td>
<td>Nevada, USA</td>
<td>Active</td>
<td>760</td>
<td>2 hrs. ago</td>
</tr>
<tr>
<td>Signal Fire</td>
<td>Wildfire</td>
<td>Gila National Forest</td>
<td>New Mexico, USA</td>
<td>Active</td>
<td>5,484</td>
<td>5 hrs. ago</td>
</tr>
<tr>
<td>Barlow Fire</td>
<td>Wildfire</td>
<td>San Carlos Agency</td>
<td>Arizona, USA</td>
<td>Active</td>
<td>1,163</td>
<td>17 hrs. ago</td>
</tr>
<tr>
<td>Skunk Fire</td>
<td>Wildfire</td>
<td>San Carlos Agency</td>
<td>Arizona, USA</td>
<td>Active</td>
<td>31,167</td>
<td>18 hrs. ago</td>
</tr>
<tr>
<td>Silver Fire</td>
<td>Wildfire</td>
<td>Gila National Forest</td>
<td>New Mexico, USA</td>
<td>Active</td>
<td>138,705</td>
<td>3 days ago</td>
</tr>
<tr>
<td>Etiwanda Fire</td>
<td>Wildfire</td>
<td>San Bernardino National Forest</td>
<td>California, USA</td>
<td>Active</td>
<td>2,143</td>
<td>3 days ago</td>
</tr>
<tr>
<td>Basin Fire</td>
<td>Wildfire</td>
<td>San Carlos Agency</td>
<td>Arizona, USA</td>
<td>Inactive</td>
<td>6,018</td>
<td>5 days ago</td>
</tr>
<tr>
<td>Iron Fire</td>
<td>Wildfire</td>
<td>Arizona State</td>
<td>Arizona, USA</td>
<td>Inactive</td>
<td>200</td>
<td>7 days ago</td>
</tr>
</tbody>
</table>

## Recent Articles

- **Signal Fire Update 5/19/2014**
  - News - 17 hrs. ago
  - Incident: Signal Fire

- **Signal Fire Update 5/18/2014**
  - News - 2 days ago
  - Incident: Signal Fire

- **Signal Fire 5/17 PM Update**
  - News - 3 days ago
  - Incident: Signal Fire

- **Signal Fire Update 5-17-14**
  - News - 3 days ago
  - Incident: Signal Fire
information on the fireline
More Rapid BAER
Keith T. Weber, GIS director at Idaho State University (ISU) in Pocatello, Idaho, and John L. Schnase of the National Aeronautics and Space Administration (NASA) Goddard Space Flight Center in Greenbelt, Maryland, believed ready-to-use geospatial web services could be leveraged to create a system that quickly organized critical fire-specific data and made that data conveniently available to the land managers dealing with the aftermath of wildfires. Weber and Schnase had previously worked together on smaller projects that studied the use of satellite data to monitor postfire rehabilitation.

The RECOVER automated response process. (1) An instance of the RECOVER decision support system deployed in the Amazon Elastic Compute Cloud (EC2). (2) The RECOVER Server connects through web service interfaces to various geospatial resources such as those hosted by ISU GIS TReC or Esri landscape analysis services. NASA’s RECOVER Server stages site-specific data layers to the server instance. (3) These staged products are refreshed as needed to maintain coverage and currency throughout the fire. (4) The decision support products and the RECOVER web map client are ready for use by the burned area emergency response (BAER) team in minutes.
Technology tools for addressing firefighter and public safety, creating efficiencies, and creating near-time information flow
On the ground
Take & share wind reports anywhere

The WeatherFlow Wind Meter is an anemometer that fits in your pocket. It works with Android & iOS devices like iPhone, iPod Touch, and iPads.

Order Now
Shipping Daily

$34.95 ORDER NOW
Infrared spectrum

FLIR ONE™
Warning you're in a evacuation area just now.
Wind: 17mph NNW
Temp: 85F
RH: 15%

Rex Hansen 14:35 pm
5 drone technologies for firefighting

By Mary Rose Roberts, Product Editor

Drones armed with cameras and sensor payloads have been used by military and border control agencies for decades to improve situational awareness. Commercialization now has brought more UAVs, or unmanned aerial vehicles, to market — making the technology more accessible to fire, EMS and emergency departments.
the right tool for the right job
Fire apps
Wildland fire Toolkit
Wildfire Pro
US fires
Crystal Reports
WFDSS
RX Fire
Ca Fire News
Burnt Planet
Sit/Sat
Wildfire info
Wildfire Maps
Real time Hazards
GETA Guys website (COPs, links, etc)
Tablet CMD
Fire Stations
IRPG
Map Test
Fire Accountability
Incinotes
Area Finder
Feedly
Hightail
SimUshare
Tactical fire table
PerDiem
Apps.doi.gov

Navigation
Use all of your available tools
How GeoMAC Works

In order to give fire managers near real-time information, fire perimeter data is updated daily based upon input from incident intelligence sources, GPS data, infrared (IR) imagery from fixed wing and satellite platforms. The GeoMAC web site allows users in remote locations to manipulate map information displays, zoom in and out to display fire information at various scales and detail, and print hard copy maps for use in fire information and media briefings, dispatch offices and coordination centers. The fire maps also have relational databases in which the user can display information on individual fires such as name of the fire, current acreage and other fire status information.
NASA Jet Propulsion Laboratory Model Results

- E-DECIDER Project Goals: Transform and Distribute NASA Earth Science Data in support of Earthquake Mitigation and Response
- How to produce results that have immediate utility for disaster response?

**Inputs**
- Remote Sensing Imagery
- QuakeSim Tools

**Derived Products**
- Optical Change Detection
- Deformation Change Detection (Simulations, GPS, InSAR)
- NAZUS Input Generation & Critical Infrastructure Information
- Earthquake & Aftershock Forecasts

**Delivery**
- UICDS Data Sharing Middleware (GIS-compliant map products and WMS output)
- E-DECIDER Portal & Mobile Interface
- UICDS-Connected Applications

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Field Observations Through Mobile Apps

1. Red Alert to Possible, Nearby Damage Locations from UICDS
2. App Provides Directions for Scientist, Engineer, and Responders
3. Record Observations with Photographs, Video
4. Integrate USGS Field Notes for scientific, engineering, and damage assessment forms of emergency response and recovery

www.UICDS.us
Infrastructure Database Service

- Enables user to access near 30 FEMA critical infrastructure information layers with HSIP Freedom data overlaid upon map data products from E-DECIDER and QuakeSim (or others)
- Supports spatial query for broader range of emergency situations: point (e.g. earthquake), line (e.g. tornado, fault rupture), and polygon (e.g. flood, wildfire), and user-specified search distance; bounding box search is now supported
- Supports KML output for Google Earth and Google Map, GeoJSON output for mobile web applications, and UICDS event adaptor is under development
- Data inventory hosted on third-party GIS server can be added through WFS chain service
Hazard Mapping System Fire and Smoke Product

Current HMS Analysis

Analysis for day 5/7/2014 last updated at 5/7/2014 12:31:02 GMT

Real-Time Satellite Imagery Loops
How do we get there?
What is on the horizon
real time streaming
Geo projected

http://youtu.be/Oowj5Yr0ULs