New SPOT Program
Customer Tutorial

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Live Demonstration

http://www.weather.gov/spot/
The purpose of the New Spot Webpage is to build upon the functionality of the existing spot page, and incorporate these new general requirements:

- One consolidated web presence
- Google mapping interface → changing to ESRI
- All hazard applicable
Front Page Changes

- Users now accesses **ONE** national page.
- Eliminates need for 122+ start pages
- Ensures correct office gets request
- User can monitor areas covering multiple forecast areas

New Interface

Current Interface

**JACKSONVILLE SPOT FORECASTS**
for
**Wednesday**

- Aug 10 2016

CALENDAR

Submit a new Spot Request

<table>
<thead>
<tr>
<th>Name</th>
<th>Ignition Time</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitchell Island</td>
<td>WILDFIRE</td>
<td>COMPLETE at 12:43 pm EDT</td>
</tr>
</tbody>
</table>
Submit SPOT Request

Spot Forecast Request

NOTICE - This interface is intended to be used solely for the relay of forecast information to the National Weather Service. Submissions sent through this online form are intended for internal agency use. We are required (by e-Gov Act of 2002) to explicitly state that submission of any information is voluntary. For further information please read our Privacy Policy and Disclaimer. False statements on this form may be subject to prosecution under the False Statement Accountability Act of 1996 (18 U.S.C. § 1001) or other statutes.

Incident and Decision Support Forecast Request

This site is the National Weather Service interface to requesting, filling, and monitoring spot forecasts issued by our Forecast Offices and National Centers.

Click here to provide 'Spot Webpage Testing Feedback'

Interactive Request:
Request a spot forecast using an interactive map, with or without a Lat/Lon of the incident.

Monitor:
Use this to monitor existing spot requests and forecasts.
Incident Location Interface

Step 1: Establish incident location using A or B below.

A. Set request location using nearest street address.

- OR -

B. Set request location using latitude & longitude, USNG, or drag the map pointer to spot location below.

- Uses Google Map functions for the user to drag and drop marker to spot location, including zoom capability.

- Three geographic location boxes will prefill based on placement of marker:
  - Lat/ Lon – Decimal Degrees
  - Lat/ Lon – Deg/Min/Sec
  - U.S. National Grid Coordinates

- The user can also enter this information manually using format of choice:
  - Other two boxes will prefill, and map will zoom to help refine location if needed.
Important for customer to get location right, so the right forecast office gets the request.

The new Spot web page will now determine which forecast office is responsible for the request.

Fire Weather Area of Responsibility (AOR) boundaries are used for fire type requests.

County Warning Area (CWA) boundaries are used for all other requests.
Incident Type Options

Step 2: Select the incident type for the request.

- New step is to select the incident type like “Wildfire” or “HAZMAT Land”.
- Selection is important because it determines what weather elements will be offered to the customer on the next page of the request form.
- This is a major enhancement over the old page. For example, marine elements are not needed for wildfire requests.

Step 3: Proceed to detailed incident request form.

After setting your location and incident type above, click on the ‘Generate A Spot Request’ button below to proceed to the SPOT request form.

Once Clicked, page 2 of the interface appears.
Spot Forecast Incident Type: Prescribed Fire

- Required fields are highlighted in red.
- Top section added a field for email address.
- The "Reason for Fire SPOT Request" section shown in the example will disappear for non-fire requests.
Required fields are highlighted in red.
Location & elevation are extracted from the first page.
The "Supplemental Info" section shown in the example will disappear for non-fire requests.
SPOT Forecast Information

When you want the SPOT product from the NWS

When you want the forecast to begin for your incident. (replaces Ignition Time)

- “Forecast Starting” time can only be within 24 hours of “Deliver Forecast” time.

### DELIVER FORECAST
- **Date:** 08/12/2016
- **Time:** As Soon As Possible

### FORECAST STARTING
- **Date:** 08/12/2016
- **Time:** 12:00

### TIMEZONE
- **(Local Time):** EASTERN

<table>
<thead>
<tr>
<th>FORECAST FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tabular Time</td>
</tr>
<tr>
<td>Table Interval</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>This Afternoon</th>
<th>Tonight</th>
<th>Saturday</th>
<th>Select All Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sky/Weather</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Temperature</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Humidity</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chance of Precipitation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lightning Activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Level</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wind (20 FT)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mixing Height</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Transport Winds</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LVORI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LDSI</td>
</tr>
</tbody>
</table>
Each incident type has a required minimum set of forecast elements that must be offered.

Additional elements may be offered by incident type.
Hysplit Feature

- There is a radio button on the Spot Request page to request a HYSPLIT Trajectory run.

- The HYSPLIT model will run per its current defaults in the current spot webpage.

- The output is emailed to the address input at the top of the request form.

- NOTE: There may be more options available to customize these runs in the future.

- Emailed product does not provide dispersion or concentration. Please contact your local NWS if you need this product.

Example of Output from Email
Observation entry is a bit more standardized with the use of dropdown menus.

Pressing the submit button will send a STQ notification message to the WFO just like the old web page did.
SPOT Request to the NWS


MAX TEMPERATURE........... Around 94.
MIN HUMIDITY............. 51 percent.
WIND (20 FT)..............
SLOPE/VALLEY........... Southeast winds 8 to 9 mph. Gusty and erratic winds expected near thunderstorms in the afternoon.

CHANCE OF PCPN........... 30 percent.
LAL.................. 1 until 1400...then 2 until 1500...then 3.
MIXING HEIGHT........... 3100-4700 ft AGL increasing to 4100-5500 ft AGL early in the afternoon.
MIXING WINDS........... Southeast 10 to 12 mph.

DISPERSION INDEX........... 36.
LVORI................... 1.

TIME (EDT)............. 11 AM 1 PM 3 PM 5 PM
SKY (%)................. 23 41 54 55
WEATHER CDV........... S CHC CHANCE CHANCE
WEATHER TYPE........... NONE RNSHWR RNSHWR RNSHWR
TSTM CDV.............. S CHC CHANCE CHANCE
TEMP................. .86
RH................... .70
20 FT WIND........... S 5
20 FT WIND GUST.15
MIX HGT (FT)........... 3100
MIXING WIND........... S 10
DISPERSION IDX........... 40
LVORI................. 1
CHC OF PCPN (%).10... 20 30 40

TONTIGHT

Save Draft □ Transmit... □ Type: rou □ Product expires in: 12:00 □ At: 02:00Z 14
Spot Forecast Request

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**Monitor Spot Forecasts**

Monitor:
Use this to monitor existing spot requests and forecasts.
SPOT Monitor Interface

NWS Spot Forecast Monitor

Submit New Spot Request

Spot Monitor Legend

Significant changes to this page!
Old Monitoring Interface

- Multiple requests for the same incident clutter up the display with multiple lines.

New Monitoring Interface

- One line per incident. Only the latest forecast available.
- All incidents on one page.
- Map uses Google API → can zoom in and out/shift map.
- Set your monitoring area by zooming/panning.
- Bookmark this link to monitor your selected area.
- Requests can be corrected via “Change Request.”
- “Submit Obs” feature added
- When an incident is finished, it is closed by the forecast office.
- Data moved into archive.
Submit Observations

- This allows customers to enter observations for an incident without having to submit a new request.

- All observations for the incident will be databased and available to the forecaster.

- Forecasters will not need to look at multiple requests to analyze observations.

Submit an Observation for incident: NWS JAX TEST

<table>
<thead>
<tr>
<th>Site</th>
<th>Date</th>
<th>Wind</th>
<th>Temp</th>
<th>Sky</th>
<th>Wx</th>
<th>Vsby</th>
<th>Sig Wave</th>
<th>Rmks</th>
</tr>
</thead>
</table>

No observations available

If you have more observations to submit, then click Add Another Observation.

When done, click Submit Observation to send the most recently added observation(s) to the supporting Forecast Office.
Access your SPOT

Click to access
Access your SPOT

- No significant changes to resultant forecast product format.

- If observations are taken on incident (encouraged), they will appear here.
Future SPOT Requests

- Scroll down to the bottom of your SPOT Forecast.
- There are 3 options you can select to help expedite a new SPOT request.
- There are 2 new features:
  1. Copy Info to New Spot Request for this Incident
  2. Request Immediate Forecast Update.
Request Immediate Forecast Update

- If the forecast is not representative of current conditions, click this link to get an immediate updated forecast.

- The customer, not the NWS forecaster, will be allowed to edit the information related to the request.

- There will be opportunity to enter in new observations.

- If the customer realizes that the forecast is off, then it would be nice to submit an observation that would help the NWS create a new forecast.
Copy Info to SPOT for New Incident

- Use this link to retain all contact information for a specific incident type, but request a spot for a new and separate incident.

Copy Info to NEW SPOT for this Incident

- Use this link to get another forecast for the same incident (cannot change lat/lon).

- Unlike “Request Immediate Forecast Update”, the customer will get Page 2 of the request process. Weather elements can be adjusted and the forecast delivery date/time can be changed, etc.

- This allows customers to easily schedule the next needed forecast for an incident without having to re-enter most of the information.

- Allows new observations submitted to remain with the request.
Live Demonstration

http://www.weather.gov/spot/

From NWS Jacksonville Fire Weather Webpage, you can access the new SPOT here
Summary

• Bookmark the new page, and start using: http://www.weather.gov/spot/

• New features on the SPOT website, but forecast product remains the same.

• Go-to operational date of the new SPOT site will be sometime after Oct. 1st this year.

• Questions/Comments?

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