New SPOT Program
Customer Tutorial

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National Weather Service Tallahassee
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Live Demonstration

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

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

From NWS Tallahassee Fire Weather Webpage, you can access the new SPOT here.

Request or View a Spot Forecast
Official use only. Click here for instructions.

Local Forecast Graphics
Period 1 | Period 2 | Period 3 | Period 4
Max/Min Relative Humidity

Local Fire Weather Products
- Fire Weather Planning Forecast (FWF)
- Red Flag Warning/Fire Weather Watch (RFW) (if any in effect)
- Tri-State Red Flag Criteria (for FL, GA and AL)
- Smoke Dispersion Forecast Update (SMF)
- Fire Danger Rating Forecast (WIMS)
- 3-Hour Graphical Forecasts
- Hourly Point Forecasts (tables & graphs available)

Other Fire Weather Links
- SPC Fire Weather Outlook: Day 1 • Day 2 • Days 3-8
- Fire Mapping: NESDIS • GeoMAC Wildfire Mapping • GeoData.gov
- NESDIS Fire Detection Program
- NESDIS Satellite Fire Monitoring
- U.S. Forest Service MODIS Active Fire Maps
- KBDI: FL, GA, AL, National
- Florida Energy Release Component (ERC) (scroll down page)
- GA 10-hr Fuel Moisture (observed OR forecast)
- Fire Danger Rating Maps...
Front Page Changes

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

New Interface

**TALLAHASSEE SPOT FORECASTS**

for

**Saturday**


Submit a new Spot Request

<table>
<thead>
<tr>
<th>Name</th>
<th>Ignition Time</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>No Entries</strong></td>
</tr>
</tbody>
</table>

TODAY

NWS/NCOA/DOC - 10:23 am EDT 9/24/16

Pending Question Complete
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'

<table>
<thead>
<tr>
<th>Interactive Request:</th>
<th>Monitor Spot Forecasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request a spot forecast using an interactive map, with or without a Lat/Lon of the incident.</td>
<td>Use this to monitor existing spot requests and forecasts.</td>
</tr>
</tbody>
</table>
Incident Location Interface

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

A. Set request location using nearest street address.

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

- OR -

● Uses *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.
**Incident Location Interface (example)**

A. Set request location using nearest street address.

Note 1: Valid entries are street address, zip code, city, state, or latitude & longitude.
Note 2: Latitude & Longitude will return the nearest street address. For exact latitude and longitude points use Step B entry below.
Note 3: City, State, and Zip Code will return a geographic center.

![Enter Location](image)

- OR -

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

Note 1: If the map below does not appear you may enter your decimal Lat/Long below.
Note 2: To start over click the Reload button on your Web Browser.
Note 3: Latitude, Longitude information should be entered in WGS84/NAD83 coordinate system to ensure accurate forecast locations.

**Decimal Degree Latitude, Longitude**

West Longitudes Are Negative

Example: 25.6319 -80.2025

30.3600, -84.3300

**United States National Grid (USNG)**

Valid for points between 84N and 89S Latitude

Require 13 character grid - 10 meter precision

Example: 16R GU 5662 6170

**Degree, Minute, Seconds**

Can accept decimal minutes as an input

Example: 30 deg 21 min 36 sec W

**Elevation**

Latitude & Longitude value used to determine elevation.

If elevation data is in error, changes can be made on the second page of this spot request

57 FT
Incident Type Options

Step 2: Select the incident type for the request.

- Fire
  - Wildfire
  - Prescribed Fire

- Hazardous Materials
  - HAZMAT Land
  - HAZMAT Inland Waterway

- Search and Rescue
  - SAR Land
  - SAR Water

- Marine

- Other (Volcano, Earthquake, Special Event)

Step 3: Proceed to detailed incident request form.

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

- New step is to select the incident type like “Wildfire”, Prescribed Fire 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.

Once Clicked, page 2 of the interface appears.
SPOT Forecast Contact Info.

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-prescribed fire requests, including wildfire.
Required Latitude and Longitude fields (red) will already be filled from your entry on the first page. Elevation is not required but this field will be entered for you. The “Supplemental Info” section shown in the example will disappear for non-fire requests. (All incident types except Prescribed Fire and Wildfire)
SPOT Forecast Information

- “Forecast Starting” time can only be within 24 hours of “Deliver Forecast” time.
- Each incident type has a required minimum set of forecast elements that must be offered. This example shows elements for both types of fire incidents.
- Additional elements may be offered by incident type.
- Forecast starting time same except excludes “As soon as possible”.
- Time zone options are either Eastern or Central.
- Tabular time intervals from 1 hour to 4 hours.
There is an option 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 concentration plume. You can register on the Air Resources Laboratory (ARL) website and request a plume concentration HYSPLIT should you desire one.
Legend

- Red trajectory is the low level flow.
- Blue trajectory is the mid level flow.
- Green trajectory is the upper level flow.

Format Limitations

- No zoom feature
- Output is in meters
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.
Monitor SPOT Request

Spot Forecast Request

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Submit Spot Request

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

Monitor Spot Forecasts

Monitor:
Use this to monitor existing spot requests and forecasts.
Significant changes to this page!
New vs. Old Monitor Interfaces

Old Monitoring Interface

New Spot Request Form Operational on October 17, 2016

This page will be replaced on October 17, 2016 by a new and improved version of this page available at http://www.weather.gov/spot/.

TALLAHASSEE
SPOT FORECASTS

for
Sunday
↑ Sep 25 2016 ↑

Submit a new Spot Request

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</thead>
<tbody>
<tr>
<td></td>
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<td>No Entries</td>
</tr>
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</table>

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

New Monitoring Interface

Old 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.
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.
Access your SPOT (request pending)

Active Spot Forecasts

<table>
<thead>
<tr>
<th>Name</th>
<th>Type/Deliver Time</th>
<th>Status</th>
<th>WFO</th>
<th>Actions</th>
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<tr>
<td>NWS TAE TEST</td>
<td>Prescribed 2017-02-21 9:51 AM EST</td>
<td>Request pending</td>
<td>TAE</td>
<td>Change Request</td>
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<tr>
<td>Dog 2</td>
<td>Wildfire 2017-02-20 3:16 PM EST</td>
<td>Completed: 2017-02-20 3:28 PM EST</td>
<td>TAE</td>
<td>Submit Obs</td>
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<tr>
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<td>Prescribed 2017-02-19 5:00 AM EST</td>
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<td>WK-G burn</td>
<td>Prescribed 2017-02-16 6:00 AM EST</td>
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<td>TAE</td>
<td>Submit Obs</td>
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Access Your SPOT Request

Spot Forecast for NWS TAE TEST...National Weather Service
National Weather Service Tallahassee FL
957 AM EST Tue Feb 21 2017

Forecast is based on ignition time of 1000 EST on February 21.
If conditions become unrepresentative...contact the National Weather Service.

Please contact our office at (850) 942-8833, if you have questions or concerns with this forecast.

.DISCUSSION...

A slow-moving low pressure system will bring a good chance of rain to the region this afternoon through Wednesday. Widespread fog is not expected.

.TODAY...
TIME (EST) 10A 11A 12P 1PM 2PM 3PM 4PM 5PM
Sky (%)........... 71 76 80 83 84 88 91 94
Weather cov....... CHC CHC CHC CHC CHC CHC CHC
Weather type..... RN RN RN RN RN RN RN RN
Tstmt cov..........
CWR.............. 40 40 40 50 50 50 50 50
LAL.............. 1 1 1 1 1 1 1 1
Temp............... 67 68 70 71 70 70 69 69
RH............... 84 81 76 73 76 76 78 78
20 FT wind dir..SE SE SE SE SE SE SE SE
20 FT wind spd..12 13 14 14 13 13 12 10
20 FT wind gust.15 20 20 20 20 20 15 15
Mix hgt (kft)...1.5 1.8 2.2 2.5 2.3 2.1 1.8 1.6
Transp wind dir.SE SE SE S S S S S
Transp wind spd.14 17 17 20 20 20 16 16
Dispersion...... 22 32 35 42 40 38 31 30
LVORI............ 3 3 3 3 3 3 3 3
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### WEEDNESDAY...

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**$\$**

Forecaster...Barry  
Requested by...Tim Barry  
Type of request...PRESCRIBED  
.TAG 1702559.0/TAP  
.EMAIL tim.barry@noaa.gov
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 New SPOT

Copy Info to SPOT Request for a 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.
Requesting a Smoke Plume Dispersion Run

http://ready.arl.noaa.gov/HYSPLIT.php
Registration Required for First Time Users
Qualifications to Register

HYSPLIT Registration Instructions

HYSPLIT registration is ONLY required by non-NOAA employees to use the HYSPLIT dispersion model on the web with forecast meteorological data or to download the LINUX or registered version of HYSPLIT for the PC or Mac computers. Please **do not** register if you will only be using the HYSPLIT trajectory model or the dispersion model with archived meteorological data.

To become a registered HYSPLIT user you must have a formal affiliation with one of the following institutions engaged in atmospheric sciences or in the provision of atmospheric operational products, and whose credentials we can verify either by a letter/email from your supervisor or by a reference to you on your employer's web site: government, commercial, educational, or non-profit. If you do not have such an affiliation, **you may also register if you are sponsored by another already registered user of HYSPLIT**, provided that they will be your contact point for questions about HYSPLIT and issues related to running the registered version of HYSPLIT (PC or web).

▶ Register for HYSPLIT access

Forgot your password? If you are registered, click on the following link to create a new password

▶ Reset your password

Login still fails? Send an email to arl.webmaster@noaa.gov

Tim Barry can sponsor your registration if initially denied
Three-step Registration Process

To download the HYSPLIT registration form, you must follow these instructions:

1. Read the HYSPLIT Use Agreement and the disclaimer.
   - [HYSLIT USE AGREEMENT](#)
   - [DISCLAIMER STATEMENT](#)

2. Provide us with your email address to acknowledge that you have read the HYSPLIT Usage Agreement and the Disclaimer.
   - Email address (REQUIRED):

3. Click the button below to agree to the terms of this agreement.
   - [I agree](#) (Providing this information is voluntary. [Privacy policy](#))

Return to the HYSPLIT registration page.
Registered Users Click This Link
HYSPLIT Limitations

This HYSPLIT implementation does not incorporate the effects of:

- chemical reactions
- dense gases
- byproducts from fires, explosions, or chemical reactions
- materials released that are not neutrally-bouyant
- deposition - unless the user enters appropriate wet and dry deposition parameters
- particulate transport - unless the user enters information about the particle (size, deposition rates, etc)
- complex terrain - other than what is resolved by the meteorological model's terrain
- varying emission rate (except for Controlled Burn simulation)

Read more information on HYSPLIT's limitations.
Model Run Inputs: Release Type

Release Type, Meteorology & Starting Location

Release Type:
- Unknown Material (Generic Mass, < 24 hrs)
- Unknown Material (Generic Mass, < 24 hrs, long duration)
- Prescribed Burn
- Volcanic Ash
- Volcanic Ash (24h, 5level)

Select Prescribed Burn as release type
Model Run Inputs: Model Selection

Release Type, Meteorology & Starting Location

**Release Type:**
- Unknown Material (Generic Mass, < 24 hrs)

**Meteorology:**
- HRRR (18h fcst, 3 km, 1 hrly, CONUS, sigma)
- NAM CONUS Nest (48h fcst, 4 km, 1 hrly, CONUS, Hyb sigma-pres)
- NAM (48h fcst, 12 km, 1 hrly, CONUS, Hyb sigma-pres)
- NAM Fire Weather (36h fcst, 1 km, 1 hrly, Moveable, Hyb sigma-pres)
- NAM Hawaii (48h fcst, 2 km, 1 hrly, Hawaii, Hyb sigma-pres)
- NAM Alaska (48h fcst, 12 km, 1 hrly, Alaska, Hyb sigma-pres)
- NAM CONUS (84h fcst, 12 km, 3 hrly, CONUS, pressure)
- RAP (18h fcst, 1 hrly, CONUS, pressure)
- GFS 1 deg. (192h fcst, 3 hrly, Global, pressure)
- GFS 0.5 deg. (84h fcst, 3 hrly, Global, Hyb sigma-pres)

**Source Location** (enter using:
- Open Map Display
- Decimal Degrees Latitude
- DDD/MM/SS Latitude
- City (Country or State: name: lat: lon):
- Airport or WMO ID (i.e., dca):

The default HRRR is a good choice
More info buttons are available throughout the process to help you make the best parameter selections. Clicking them opens yellow boxes with more info.

Click this link for model descriptions: /hyreg/hysp-metadata.html
Model Run Inputs: Set Burn Location

Release Type, Meteorology & Starting Location

Release Type: Prescribed Burn

Meteorology: HRRR (18h fcast, 3 km, 1 hrly, CONUS, sigma)

View Current NAM Fire Weather Domains

Source Location (enter using one of the following methods):

- Open Map Display
- Decimal Degrees Latitude: [ ] N [ ]
- DDD/MM/SS Latitude: [ ] N [ ] Deg. [ ] Min. [ ] Sec.
- City (Country or State: name: lat: lon): [ ]
- Airport or WMO ID (i.e., dca): [ ] ID Lookup

Clickable map also available.

Reset Form Next>>
In the NWS, we always go with the defaults here, but feel free to apply your expertise to choose non-default options.
Model Run Inputs: Run Details

Specify ignition time and burn area

Recommend 4-8 hours. Longer durations take longer to run

Be sure to toggle this on if you want kmz files

Set to your preferences & don’t forget the more info links

Ready to submit!
Keep track of your run status here. Runs take about one minute per number of hours of output requested. Data files will automatically appear when available.

HYSPLIT MODEL RESULTS FOR JOB NUMBER 26372

Model Status:

- Percent complete: 33.3
- Percent complete: 16.7
- Calculation Started ... please be patient

There are no graphics files available yet. This page will reload every 10 seconds until the model and graphics have finished.

- HYSPLIT SETUP file.
- HYSPLIT CONTROL file.
- Model Status (diagnostics) file.

Return to main menu (keep user inputs)

Return to main menu (start a new session)
Run Status & Output Page

Here's your model run is multiple formats. Happy burning!

- Zipped file of all graphics and diagnostics (for redistribution)
- Emissions file
- HYSPIT SETUP file.
- HYSPIT CONTROL file.
- Model Status (diagnostics) file.
- HYSPIT MESSAGE (diagnostics) file.
  - MESSAGE file format help (pdf)
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.

• If those who desire a plume concentration HYSPLIT, go to the following website:

  http://ready.arl.noaa.gov/HYSPLIT.php

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