

New SPOT Program

Customer Tutorial



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Live Demonstration

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

NWS Forecast Office Tallahassee, FL

[Weather.gov](#) > Tallahassee, FL

Tallahassee, FL

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Today Fire Tomorrow

Today
2/21/2017

Location	Temperature	Precipitation Chance
Albany	77	50%
Valdosta	78	40%
Tallahassee	71	80%
Panama City	71	80%
Cross City	80	40%

629 AM EST
Tue Feb 21 2017
National Weather Service
Tallahassee, FL

[Hide Caption](#)

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

[MORE](#)

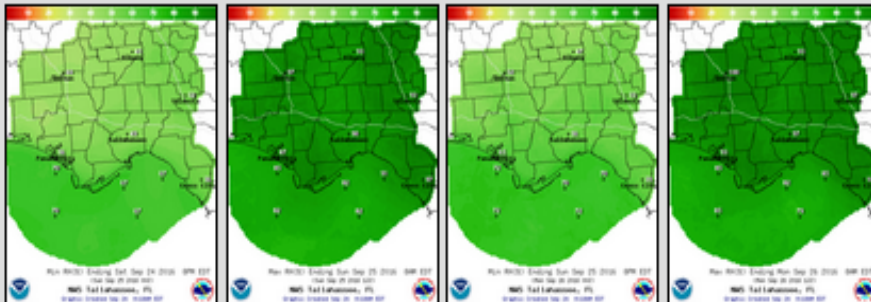
Period 1

Period 2

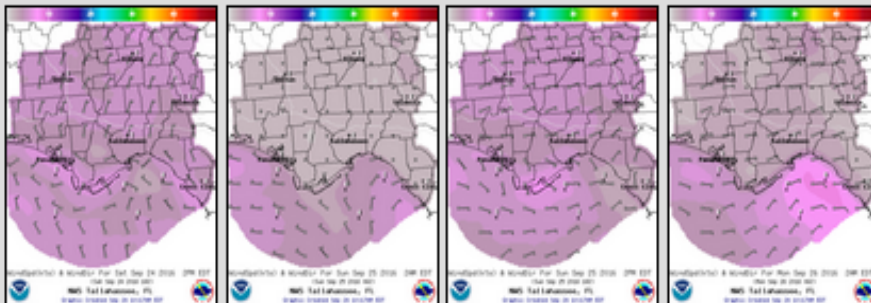
Period 3

Period 4

Max/Min Relative Humidity



20 Foot Winds



? Questions or comments about the NWS Tallahassee fire weather program? Email [Tim Barry](#), fire weather focal point.

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

[Back to NWS Tallahassee Fire Weather Page](#)

TALLAHASSEE SPOT FORECASTS

for
Saturday
← **Sep 24 2016** →
[CALENDAR](#)



Pending Question Complete

[Submit a new Spot Request](#)

Name	Ignition Time	Status
No Entries		

New Interface

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

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

PLOT ADDRESS

- 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/Lon 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 coordinates in order to ensure accurate forecast locations.

Decimal Degree Latitude, Longitude

West Longitudes Are Negative
Example: 25.6319, -89.2022

49.0291, -95.1926

PLOT

United States National Grid (USNG)

Valid for points between 84N and 80S Latitude
Require 13 character grid - 10 meter precision
Example: 18SU23480647

15U UQ 3972 3300

PLOT

Degree, Minute, Seconds

Can accept decimal minutes as an input
Example: 25 deg 19 min 23 sec W

49 deg 1 min 45 sec N

95 deg 11 min 33 sec W

PLOT

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.

1060 FT



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'](#)

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.

Incident Location Interface

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

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 centers.

- 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/Lon 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 coordinates in order to ensure accurate forecast locations.

Decimal Degree Latitude, Longitude

West Longitudes Are Negative

Example: 25.6319 -80.2025

United States National Grid (USNG)

Valid for points between 84N and 80S Latitude

Require 13 character grid - 10 meter precision

Example: 18SUJ23480647

Degree, Minute, Seconds

Can accept decimal minutes as an input

Example: 25 deg 19 min 23 sec W

deg

min

sec

deg

min

sec

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.

FT



- 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 centers.

- 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/Lon 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 coordinates in order to ensure accurate forecast locations.

Decimal Degree Latitude, Longitude

West Longitudes Are Negative

Example: 25.6319,-80.2025

United States National Grid (USNG)

Valid for points between 84N and 80S Latitude

Require 13 character grid - 10 meter precision

Example: 18SUJ23480647

Degree, Minute, Seconds

Can accept decimal minutes as an input

Example: 25 deg 19 min 23 sec W

 deg min sec deg min sec

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.

 FT

Incident Type Options

Step 2: Select the incident type for the request.

Set Incident Type

Fire

Wildfire Prescribed Fire

Hazardous Materials

HAZMAT Land HAZMAT Inland Waterway

Search and Rescue

SAR Land SAR Water

Marine

Other (Volcano, Earthquake, Special Event)

- 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.

Step 3: Proceed to detailed incident request form.

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

Generate A Spot Request

Once Clicked, page 2 of the interface appears.

SPOT Forecast Contact Info.

Spot Forecast Incident Type: Prescribed Fire

Spot Request Contact Information

(*) PROJECT NAME: NWS TAE TEST

For NWS Spot forecast policy,
see section 4.0 in NWS Instruction 10-401 at:
<http://www.nws.noaa.gov/directives/010/010.htm>

(*) Requesting Agency: National Weather Service

(*) Requesting Official: Tim Barry

(*) E-mail address: tim.barry@noaa.gov

(*) Phone number: 850 942 8833

Phone Extension:

Contact Person:

FAX number:

Reason For Prescribed Fire Spot Request

- Under the Interagency Agreement for Meteorological Services (USFS, BLM, NPS, USFWS, BIA)
- State, tribal or local fire agency working in coordination with a federal participant in the Interagency Agreement for Meteorological Services.
- Essential to public safety, e.g. due to the proximity of population centers or critical infrastructure.

- 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.

SPOT Location & Supplemental Info.

Location

(WGS84 / NAD83 preferred)

(+)Latitude: 7.5' Quad:

(+)Longitude:

Elevation: Feet Feet

TOP BOTTOM

(Elevation preferred in feet)

Fire Weather Supplemental Information

Drainage: Size:

(In Acres)

Aspect: Fuel Type:

Sheltering

Full Partial Unsheltered

- 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

When you want the SPOT product from the NWS

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

Forecast Information

DELIVER FORECAST

Date : 02/21/2017

Time : As Soon As Possible

FORECAST STARTING

Date : 02/21/2017

Time : 10:00

TIMEZONE

(Local Time)

EASTERN

As Soon As Possible

10:00

11:00

12:00

13:00

14:00

15:00

16:00

17:00

18:00

19:00

20:00

21:00

22:00

23:00

Tabular

FORECAST FORMAT

1 Hr

Tabular Time Table Interval

Wednesday

Select All Periods

Sky/Weather

Temperature

Humidity

Chance of Wetting Rain

Lightning Activity Level

Wind (20 FT)

Mixing Height

Transport Winds

Dispersion Index

LVORI

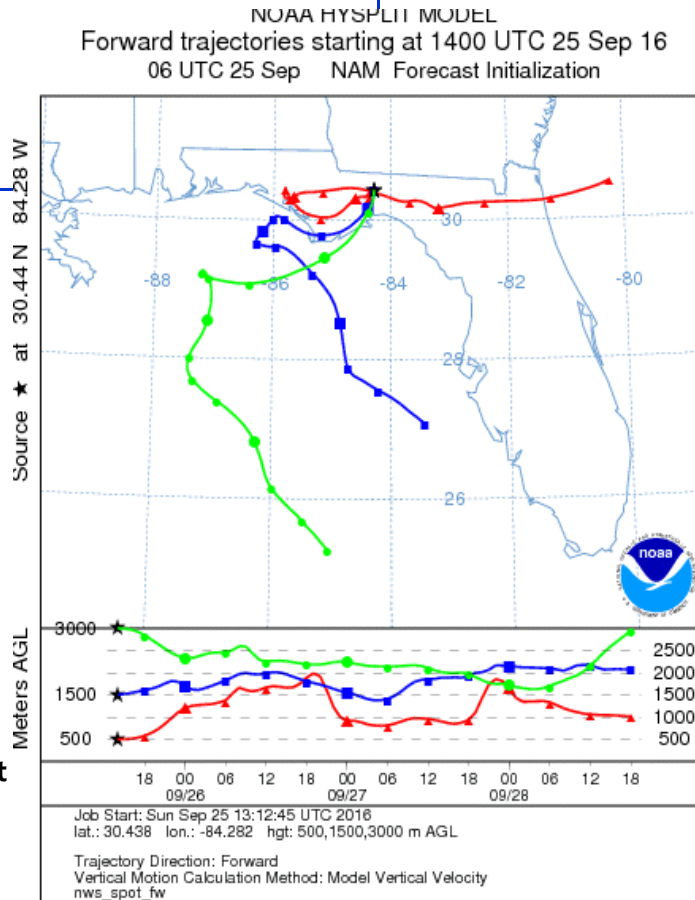
- “Forecast Starting” time can only be within 24 hours of “Deliver Forecast” time.
- Each incident type has a required minimum set of forecast elements that must be offered. This example shows elements for both types of fire incidents.
- Additional elements may be offered by incident type.
- Forecast 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.

Hysplit Feature

NOAA Hysplit Model

Would you like to include a run of the Hysplit Model with this request? If so please verify your email address above as this will be used to send you the hysplit model run.

YES
 NO



Example of Output
from Email

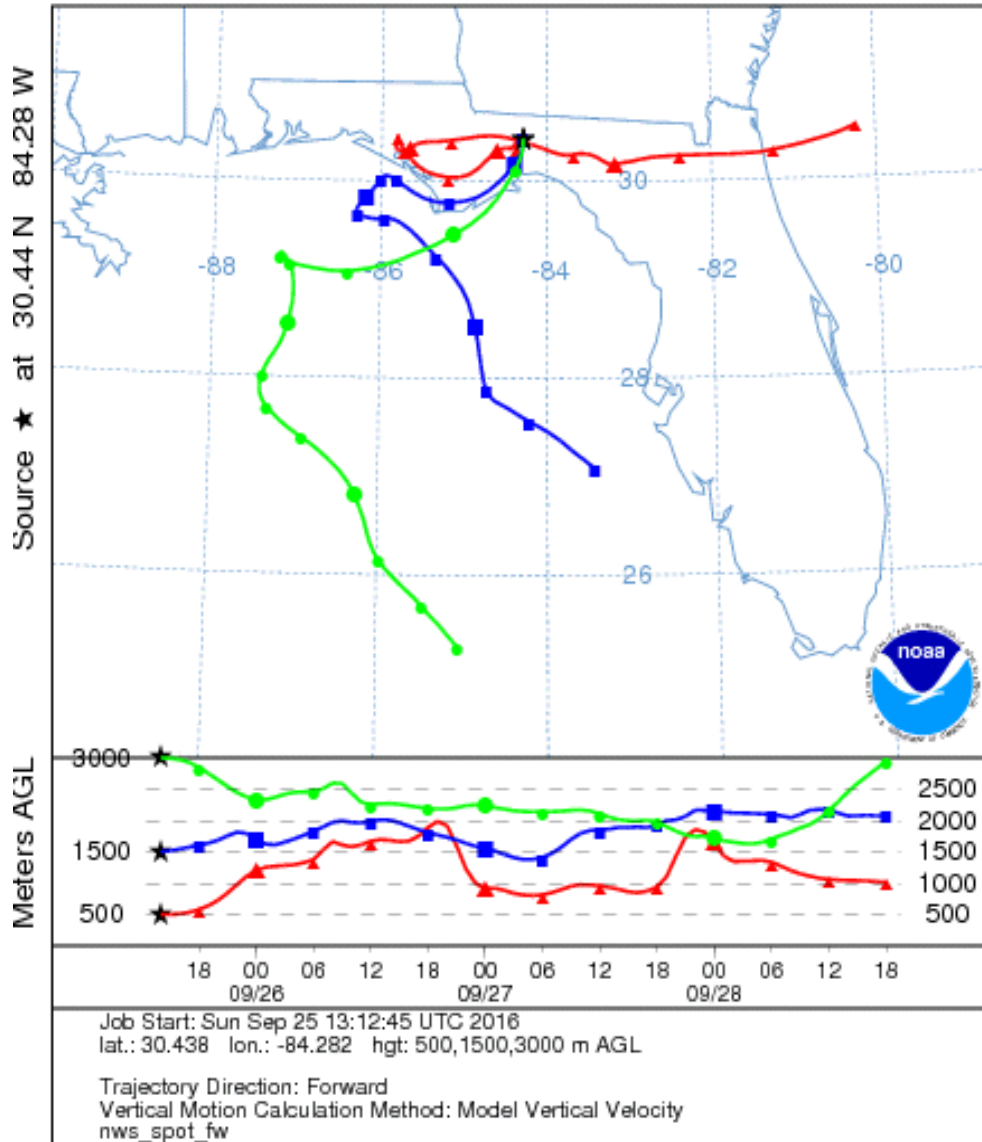
- There is an option on the Spot Request page to request a HYSPLIT Trajectory run.
- The HYSPLIT model will run per its current defaults in the current spot webpage.
- The output is emailed to the address input at the top of the request form.
- NOTE: There may be more options available to customize these 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.

Hysplit (example)

NOAA HYSPLIT MODEL

Forward trajectories starting at 1400 UTC 25 Sep 16

06 UTC 25 Sep NAM Forecast Initialization



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 Input

Observations

(*) When submitting an observation, the yellow fields are required in addition to at least one weather element.

WX OB 1	WX OB 2	WX OB 3
<input type="checkbox"/> Remove Ob	<input type="checkbox"/> Remove Ob	<input type="checkbox"/> Remove Ob
(*)Site: <input type="text"/>	(*)Site: <input type="text"/>	(*)Site: <input type="text"/>
(*)Date: <input type="text"/>	(*)Date: <input type="text"/>	(*)Date: <input type="text"/>
(*)Time: <input type="text"/> (Local)	(*)Time: <input type="text"/> (Local)	(*)Time: <input type="text"/> (Local)
(*)Elev: <input type="text"/>	(*)Elev: <input type="text"/>	(*)Elev: <input type="text"/>
Wind Dir: <input type="text"/>	Wind Dir: <input type="text"/>	Wind Dir: <input type="text"/>
Wind Spd: <input type="text"/>	Wind Spd: <input type="text"/>	Wind Spd: <input type="text"/>
Temp: <input type="text"/>	Temp: <input type="text"/>	Temp: <input type="text"/>
WB: <input type="text"/>	WB: <input type="text"/>	WB: <input type="text"/>
RH: <input type="text"/>	RH: <input type="text"/>	RH: <input type="text"/>
Td: <input type="text"/>	Td: <input type="text"/>	Td: <input type="text"/>
Sky: <input type="text"/>	Sky: <input type="text"/>	Sky: <input type="text"/>
Wx: <input type="text"/>	Wx: <input type="text"/>	Wx: <input type="text"/>
Rmks: <input type="text"/>	Rmks: <input type="text"/>	Rmks: <input type="text"/>

- 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

Submit Spot Request

Clicking the button below will create a one time spot request.

This request will be processed and a forecast will be generated by the servicing forecast office at the time they receive the spot request.

At any time until the expiration of this forecast, another immediate spot request may be generated off of the original request. Additionally, the immediate spot request can be converted into a scheduled request by contacting your servicing forecast office.

Submit Request

Cancel

Monitor SPOT Request

Spot Forecast Request

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Spot
Request

Interactive Request:

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

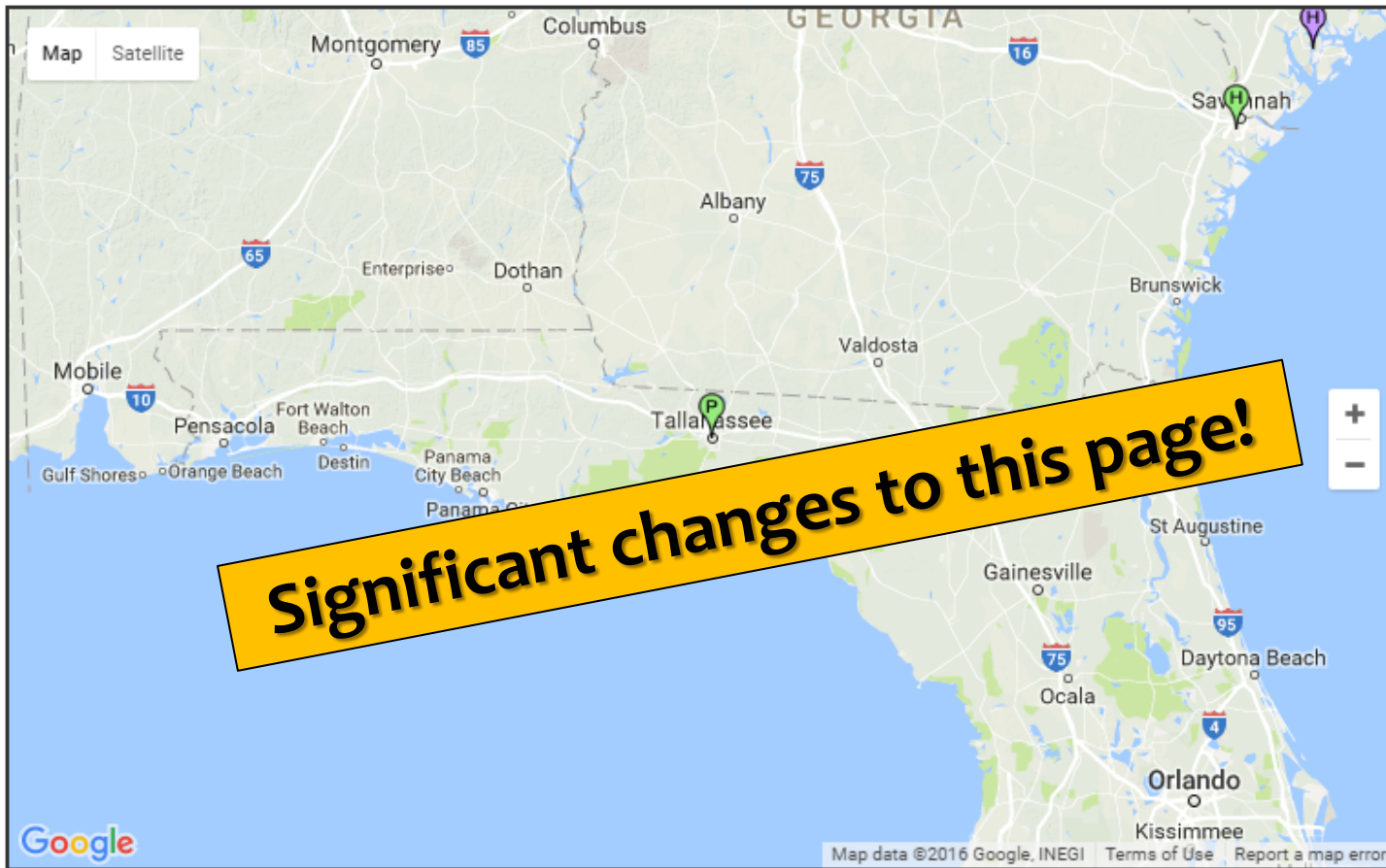
Monitor
Spot
Forecasts

Monitor:

Use this to monitor existing spot requests and forecasts.

SPOT Monitor Interface

NWS Spot Forecast Monitor



[Submit New Spot Request](#)



Spot Monitor Legend

- W = Wildfire
- P = Prescribed
- H = Hazmat
- S = SAR
- M = Marine
- Completed
- Pending
- Question

Permalink for page bookmark
X:216.38.80.221

Active Spot Forecasts

Name	Type/Start Time	Status	WFO	Actions
NWS TAE TEST	Prescribed 2016-09-25 10:00 AM EDT	Request pending	TAE	Change Request Submit Obs
Test Test Test	HAZMAT	Request pending: Question asked	CHS	Submit Obs
TEST TEST TEST	HAZMAT	Request pending	CHS	Submit Obs

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/>.

[Back to NWS Tallahassee Fire Weather Page](#)

TALLAHASSEE SPOT FORECASTS

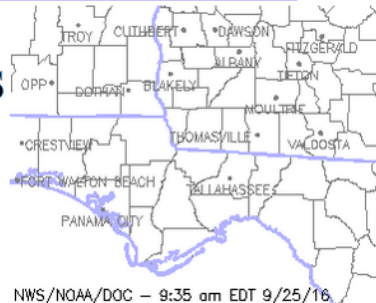
for

Sunday

← Sep 25 2016 →

[CALENDAR](#)

[Submit a new Spot Request](#)



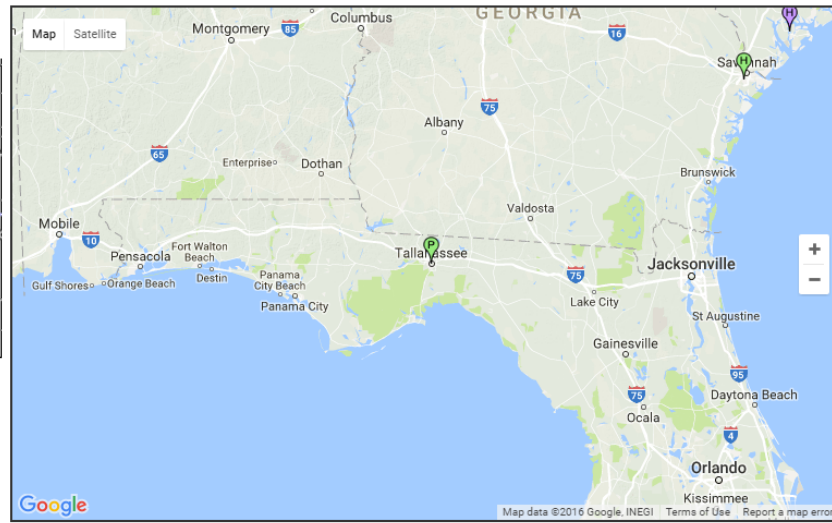
NWS/NOAA/DOC - 9:35 am EDT 9/25/16

Pending Question Complete

Name	Ignition Time	Status
No Entries		

New Monitoring Interface

NWS Spot Forecast Monitor



[Submit New Spot Request](#)

[Calendar](#)

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Name	Type/Start Time	Status	WFO	Actions
NWS TAE TEST	Prescribed 2016-09-25 10:00 AM EDT	Request pending	TAE	Change Request Submit Obs
Test Test Test	HAZMAT	Request pending: Question asked	CHS	Submit Obs

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

- 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

Submit an Observation for incident: NWS JAX TEST

Observations								
Site	Date	Wind	Temp	Sky	Wx	Vsby	Sig Wave	Rmks
No observations available								

Observation

WX OB

Site:

Date:

Time: (Local)

Wind Dir:

Wind Spd:

Temp:

Sky:

Wx:

Vsby:

Sig Wave:

Rmks:

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.

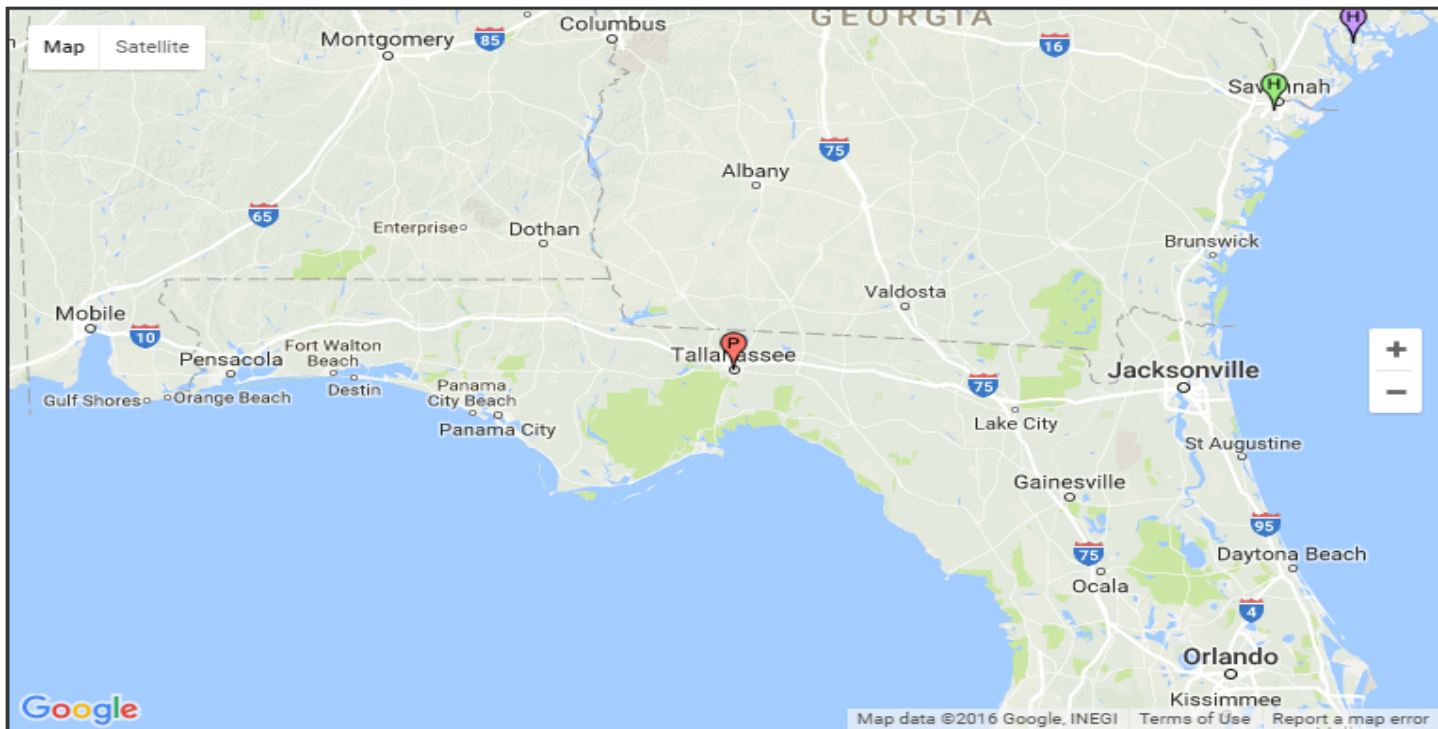
Add Another Observation

Submit Observation

- 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)

NWS Spot Forecast Monitor



[Submit New Spot Request](#)



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- M = Marine
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- Pending
- Question

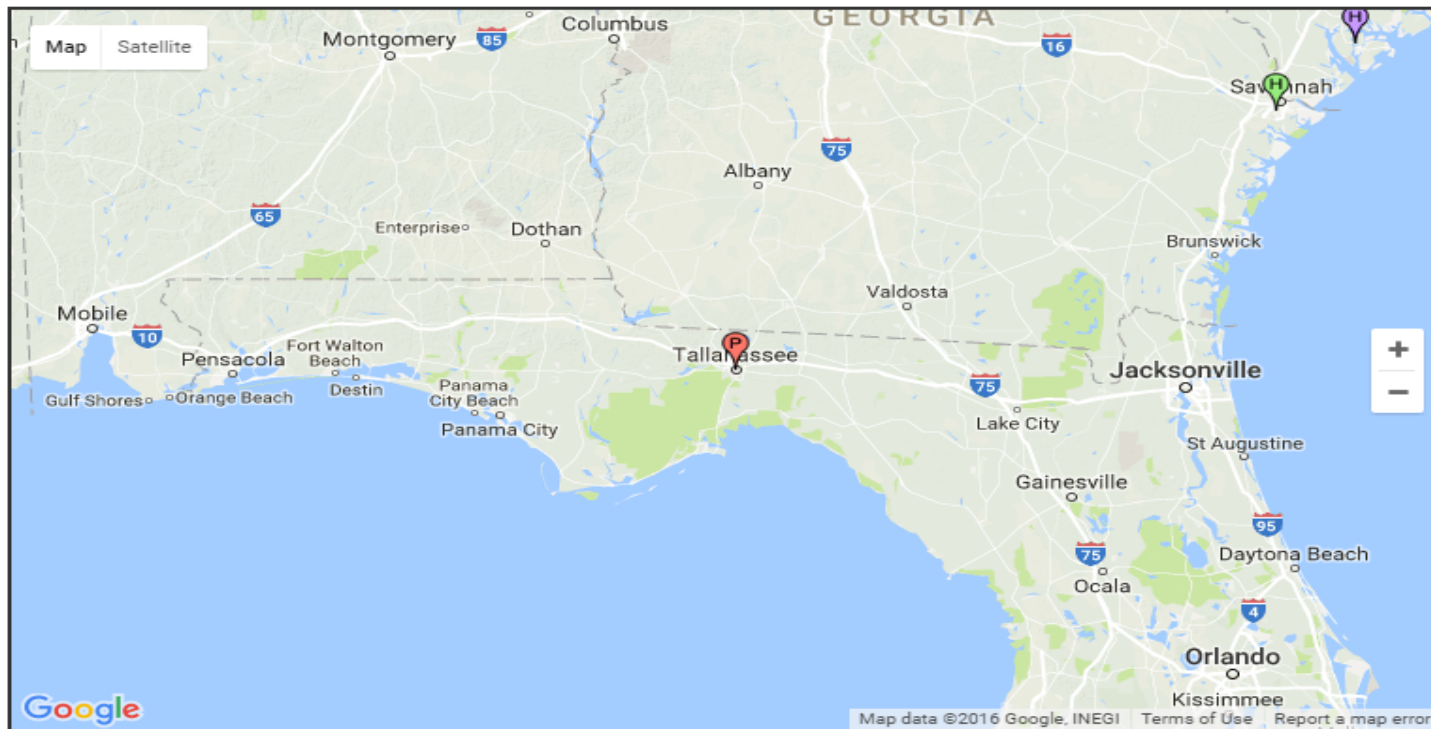
Permalink for page bookmark
X:216.38.80.221

Active Spot Forecasts

Name	Type/Deliver Time	Status	WFO	Actions
NWS TAE TEST	Prescribed 2017-02-21 9:51 AM EST	Request pending	TAE	Change Request Submit Obs Close
Dog 2	Wildfire 2017-02-20 3:16 PM EST	Completed: 2017-02-20 3:28 PM EST	TAE	Submit Obs Close
BU 261	Prescribed 2017-02-19 5:00 AM EST	Completed: 2017-02-19 3:40 AM EST	TAE	Submit Obs Close
WK-G burn	Prescribed 2017-02-16 6:00 AM EST	Completed: 2017-02-16 2:34 AM EST	TAE	Submit Obs Close

Access your SPOT

NWS Spot Forecast Monitor



[Submit New Spot Request](#)

[Calendar](#)

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- Question

Permalink for page bookmark
X:216.38.80.221

Active Spot Forecasts

Name	Type/Deliver Time	Status	WFO	Actions
NWS TAE TEST	Prescribed 2017-02-21 9:51 AM EST	Completed: 2017-02-21 9:57 AM EST	TAE	Submit Obs Close
Dog 2	Wildfire 2017-02-20 3:16 PM EST	Completed: 2017-02-20 3:28 PM EST	TAE	Submit Obs Close
BU 261	Prescribed 2017-02-19 5:00 AM EST	Completed: 2017-02-19 3:40 AM EST	TAE	Submit Obs Close
WK-G bur	Prescribed 2017-02-16 6:00 AM EST	Completed: 2017-02-16 2:34 AM EST	TAE	Submit Obs Close

Click to access

Access Your SPOT Request (cont.)

```
.TONIGHT...
TIME (EST)      6PM 7PM 8PM 9PM 10P 11P MID 1AM 2AM 3AM 4AM 5AM
Sky (%).....97 99 99 99 99 98 97 96 96 96 96 95
Weather cov....CHC DEF DEF DEF DEF DEF DEF DEF DEF DEF DEF DEF
Weather type....RN  RN  RN  RN  RN  RN  RN  RN  RN  RN  RN  RN
Tstm cov.....
CWR.....50  80 80 80 80 80 80 80 80 80 80 80
LAL.....1  1  1  1  1  1  1  1  1  1  1  1
Temp.....68 68 67 66 64 64 63 63 63 63 62 62
RH.....84 84 84 87 93 93 93 93 93 93 97 97
20 FT wind dir..SE SE SE SE SE SE SE E E E E E
20 FT wind spd..9  8  8  8  7  7  6  5  5  5  6  6
20 FT wind gust.15 15 15 15 15 15 10 10 10 10 10 10
Mix hgt (kft)...1.3 1.0 1.0 1.0 0.9 0.8 0.8 0.7 0.7 0.8 0.8 0.8
Transp wind dir.S  S  S  S  SE SE SE E E E E E
Transp wind spd.16 13 13 13 9  9  9  7  7  7  9  9
Dispersion.....26 12 11 11 8  7  7  5  5  5  6  6
LVORI.....3  4  4  4  6  6  6  6  6  6  6  6
```

```
.WEDNESDAY...
TIME (EST)      6AM 7AM 8AM 9AM 10A 11A 12P 1PM 2PM 3PM 4PM 5PM
Sky (%).....94 93 93 92 91 89 85 83 83 81 80 81
Weather cov....DEF LKY LKY LKY LKY LKY LKY CHC CHC CHC CHC CHC
Weather type....RN  RN  RN  RN  RN  RN  RN  RN  RN  RN  RN  RN
Tstm cov.....
CWR.....80  60 60 60 60 60 60 30 30 30 30 30
LAL.....1  1  1  1  1  1  1  1  1  1  1  1
Temp.....62 62 64 65 66 68 69 71 71 71 72 70
RH.....93 93 90 90 90 84 78 71 71 71 66 73
20 FT wind dir..E  E  E  E  E  E  E  E  E  E  E  E
20 FT wind spd..6  6  7  8  9 10 10 10 10 9  9  8
20 FT wind gust.10 10 15 15 15 15 15 15 15 15 15 15
Mix hgt (kft)...0.8 0.9 1.1 1.4 1.7 2.3 2.9 3.5 3.5 3.4 3.4 2.7
Transp wind dir.E  E  E  E  E  E  E SE SE SE SE SE
Transp wind spd..9 12 12 12 15 15 15 20 20 20 16 16
Dispersion.....6 13 16 18 27 32 36 57 57 57 45 40
LVORI.....6  5  5  5  4  4  4  2  2  2  3  3
```

\$\$

```
Forecaster...Barry
Requested by...Tim Barry
Type of request...PRESCRIBED
.TAG 1702559.0/TAE
.EMAIL tim.barry@noaa.gov
```

Future SPOT Requests

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

Please Provide Feedback:

Send Feedback

[Printer Friendly Version of Forecast](#)

[Copy Info to Spot Request for a New Incident](#)

[Copy Info to New Spot Request for this Incident](#)

[Request Immediate Forecast Update](#)

NEW

- 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

Send Feedback

[Printer Friendly Version of Forecast](#)

[Copy Info to Spot Request for a New Incident](#)

[Copy Info to New Spot Request for this Incident](#)

[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

Send Feedback

[Printer Friendly Version of Forecast](#)

[Copy Info to Spot Request for a New Incident](#)

[Copy Info to New Spot Request for this Incident](#)

[Request Immediate Forecast Update](#)

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.

Requesting a Smoke Plume Dispersion Run

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



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 - READY News
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The HYSPLIT model can be run interactively on the READY web site or installed on a PC (Mac) or LINUX workstation and run using a graphical user interface (GUI) or script.



Got a question about HYSPLIT? Ask your question through the [HYSPLIT Forum](#).

HYSPLIT-WEB (Internet-based)

- [Run HYSPLIT Trajectory Model](#)
- [Run HYSPLIT Dispersion Model \(includes volcanic ash\)](#)** **Click this link**
- [HYSPLIT for Volcanic Ash](#)
- [Spain HYSPLIT](#)
- [HYSPLIT for NWS Forecast Offices](#) (NOAA employees only - you will leave the ARL web site)
 - [BACKUP - HYSPLIT for NWS Forecast Offices](#) (NOAA employees only - backup ARL site)

PC Windows-based HYSPLIT

- [Download Public \(unregistered\) Version](#)
- [Download Registered Version](#) (registration required)
 - [HYSPLIT Registration Instructions](#)
- [Graphical Utilities](#) - These should be installed prior to HYSPLIT
- [Meteorological Data Conversion Utilities](#)



ARL-authored paper on the NOAA HYSPLIT modeling system

ARL scientists Ariel Stein, Roland Draxler, Glenn Rolph, Barbara Stunder, Mark Cohen, and Fantine Ngan are co-authors on a Bulletin of the American Meteorological

Registration Required for First Time Users

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[ARL Home](#) > [READY](#) > [Transport & Dispersion Modeling](#) > [HYSPLIT](#) > HYSPLIT Dispersion Model



Dispersion



- ▶ [Compute *forecast* dispersion](#) (registration required)
 - ▶ [Restart user session \(clear user inputs\)](#)
- ▶ [Compute *archive* dispersion](#) (registration required)
 - ▶ [Restart user session \(clear user inputs\)](#)
- ▶ [Compute *archive* dispersion](#)
 - ▶ [Restart user session \(clear user inputs\)](#)
- ▶ [Retrieve Previous model results](#) (registration required)
- ▶ [Retrieve Previous model results](#)
- ▶ [Return to main HYSPLIT page](#)

Publications using HYSPLIT results, maps or other READY products provided by NOAA ARL are requested to include an acknowledgement of, and citation to, the NOAA Air Resources Laboratory. Appropriate versions of the following are recommended:

Qualifications to Register

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[ARL Home](#) > [READY](#) > [HYSPLIT](#) > [HYSPLIT Registration Instructions](#)

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

Modified: February 2, 2017

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Three-step Registration Process



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[ARL Home](#) > [READY](#) > [Transport & Dispersion Modeling](#) > [HYSPLIT](#) > [HYSPLIT Registration](#)

HYSPLIT Registration



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

1. Read the HYSPLIT Use Agreement and the disclaimer.

[HYSPLIT 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.

(Providing this information is voluntary. [Privacy policy](#))

[Return to the HYSPLIT registration page.](#)

Modified: October 27, 2008

[Privacy](#) | [Disclaimer](#) | [Information Quality](#)

[US Dept. of Commerce](#) | [NOAA](#) | [NOAA Research](#) | [ARL](#)

[Accessibility](#) | [webmaster](#)

Registered Users Click This Link

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[ARL Home](#) > [READY](#) > [Transport & Dispersion Modeling](#) > [HYSPLIT](#) > HYSPLIT Dispersion Model



Dispersion



- ▶ [Compute *forecast* dispersion](#) (registration required)
 - ▶ [Restart user session \(clear user inputs\)](#)
- ▶ [Compute *archive* dispersion](#) (registration required)
 - ▶ [Restart user session \(clear user inputs\)](#)
- ▶ [Compute *archive* dispersion](#)
 - ▶ [Restart user session \(clear user inputs\)](#)
- ▶ [Retrieve Previous model results](#) (registration required)
- ▶ [Retrieve Previous model results](#)
- ▶ [Return to main HYSPLIT page](#)

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Read and Close the Limitations Pop-up

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.](#)

Close

Model Run Inputs: Release Type

Release Type, Meteorology & Starting Location

Release Type:

Unknown Material (Generic Mass, < 24 hrs) ▼

[More info ▶](#)

Meteorology:

Unknown Material (Generic Mass, < 24 hrs)

Unknown Material (Generic Mass - long duration)

Prescribed Burn

Volcanic Ash

Volcanic Ash (24h, 5level)

[More info ▶](#)

Select Prescribed Burn as
release type

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

Open Map Display

Decimal Degrees Latitude: N ▼

Longitude: W ▼

DDD/MM/SS Latitude: N ▼

Longitude: W ▼

Deg.

Min.

Sec.

Deg.

Min.

Sec.

City (Country or State: name: lat: lon): ▼

Airport or WMO ID (i.e., dca): [ID Lookup](#)

Reset Form

Next>>

Model Run Inputs: Model Selection

Release Type, Meteorology & Starting Location

Release Type: Unknown Material (Generic Mass, < 24 hrs) [More info ▶](#)

Meteorology: HRRR (18h fcst, 3 km, 1 hrly, CONUS, sigma) [More info ▶](#)

Source Location (enter using one of the following methods)

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

Meteorology dropdown options:
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)

W W

Deg. Min. Sec. Deg. Min. Sec.

The default HRRR is a good choice

Model Run Inputs: More Info Links

More info buttons are available throughout the process to help you make the best parameter selections. Clicking them opens yellow boxes with more info.

Release Type, Meteorology & Starting Location

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

[More info ▶](#)

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

[More info ▶](#)

Select the forecast meteorological data set from the drop-down list. Currently, the NAM, GFS and RAP data are available to the user. Details on the contents of the data sets can be found by clicking the following link.

/hyreg/hysp_metdata.html Click this link for model descriptions

[View Current NAM Fire Weather Domains](#)

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

Open Map Display

Decimal Degrees Latitude: N ▾

Longitude: W ▾

DDD/MM/SS Latitude: N ▾ Longitude: W ▾
Deg. Min. Sec. Deg. Min. Sec.

City (Country or State: name: lat: lon): ▾

Airport or WMO ID (i.e., dca): [ID Lookup](#)

Model Run Inputs: Set Burn Location

Release Type, Meteorology & Starting Location

Release Type: Prescribed Burn ▼

[More info](#) ▶

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

[More info](#) ▶

[View Current NAM Fire Weather Domains](#)

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

Clickable map also available.

Open Map Display

Decimal Degrees Latitude: N ▼

Longitude: W ▼

DDD/MM/SS Latitude: N ▼ Longitude: W ▼

Deg.

Min.

Sec.

Deg.

Min.

Sec.

City (Country or State: name: lat: lon): ▼

Airport or WMO ID (i.e., dca): [ID Lookup](#)

Reset Form

Next>>

Model Run Inputs: Data & Output Options

In the NWS, we always go with the defaults here, but feel free to apply your expertise to choose non-default options.

Meteorology file and other configuration information

Event Type: Exercise - Unspecified
Release: Prescribed_burn
Pollutant: Unknown
Meteorology: HRRR
Source Location: Lat: 30.158800 Lon: -84.871100

Meteorological Data & Output Options

Meteorological Forecast Cycle: 18 UTC / 20170223 ▾
Deposition: No ▾
Advanced Options: No ▾

[More info](#) ▶
[More info](#) ▶
[More info](#) ▶

Default options will work here

Next>>

You can always look into the details

Model Run Inputs: Run Details

Model Run Details

The current HRRR model has 18 hours of forecast data beginning at 02/23/17 1800 UTC.

Source Term Parameters

Specify ignition time and burn area

Release starting time (UTC):

Current time: 21:09

year month day hour minute
17 02 23 21 0

[More info](#) ▶

Burn Area:

500 acres

[More info](#) ▶

Runtime Parameters

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

Total duration:

6 hour(s)

[More info](#) ▶

Averaging period/Output interval:

1 hour(s)

[More info](#) ▶

Top of averaged layer:

1000 meters AGL (must be >= 100m)

[More info](#) ▶

Display Options

Be sure to toggle this on if you want kmz files

GIS output of contours?

None Google Earth (kmz) GIS Shapefiles

[More info](#) ▶

The following options apply only to the GIF, PDF, and PS results (not Google Earth)

Plot resolution (dpi):

96

[More info](#) ▶

Zoom factor:

0

[More info](#) ▶

Distance circle overlay:

None Auto 4 circles spaced 10 km apart

[More info](#) ▶

U.S. county borders?

Yes No

[More info](#) ▶

Postscript file?

Yes No

[More info](#) ▶

Create PDF file of graphics?

Yes No

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

[Reset page to default values](#)

[Request Dispersion Run>>](#)

Ready to submit!

Run Status & Output Page

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 in multiple formats. Happy burning!

HYSPLIT MODEL RESULTS FOR JOB NUMBER 26372

Model Status: Thu Feb 23 16:26:31 EST 2017
The model and graphics are now complete.
Finished generating graphics for job 26372.

Legend Lat= 29.8321 Lng=-84.1904 Ring Options Plume Options

Integrated: 2300 UTC FEB 23 2017
to: 0000 UTC FEB 24 2017

- > 526 ug/m3
- > 300 ug/m3
- > 138 ug/m3
- > 88 ug/m3
- > 39 ug/m3
- > 1 ug/m3

Maximum: 5.5E+02 ug/m3
Minimum: 1.4E-04 ug/m3

MORE RESULTS	Click on text link or dropdown menu to view images in a new window.					
	GIF Plots	Animated GIF Plots	PDF Plots	Google Earth	Flash Maps	
Concentration Grid 1	-- ▾	.gif	Java	.pdf	.kmz	.kmz
Particle Positions	-- ▾	.gif	Java	.pdf	.kmz	-

- [Zipped file of all graphics and diagnostics \(for redistribution\)](#)
- [Emissions file](#)
- [HYSPLIT SETUP file.](#)
- [HYSPLIT CONTROL file.](#)
- [Model Status \(diagnostics\) file.](#)
- [HYSPLIT 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>



Tim Barry
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tim.barry@noaa.gov