New SPOT Program

Customer Tutorial

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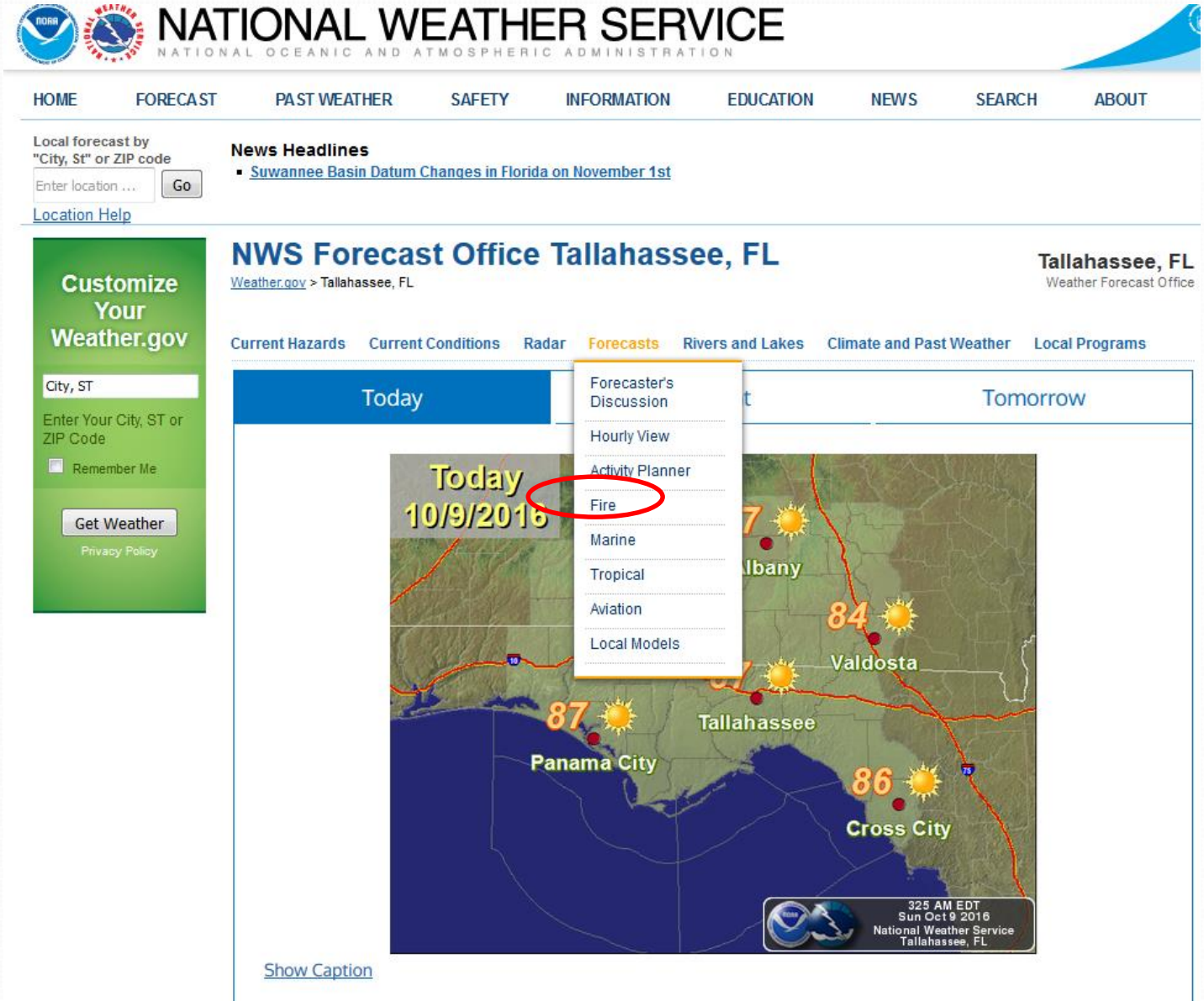
Live Demonstration

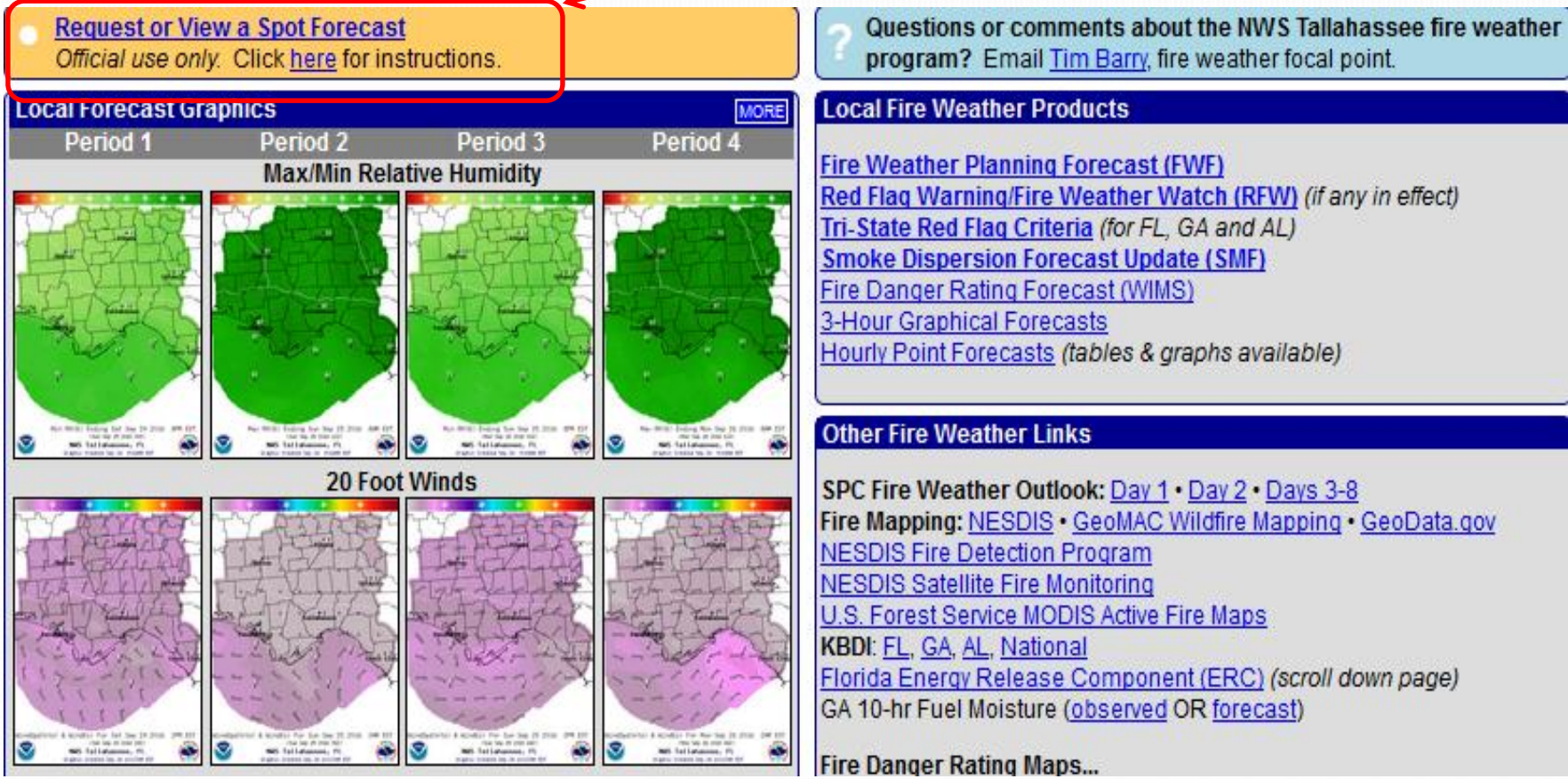
http://www.weather.gov/spot/



Live Demonstration

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

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



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

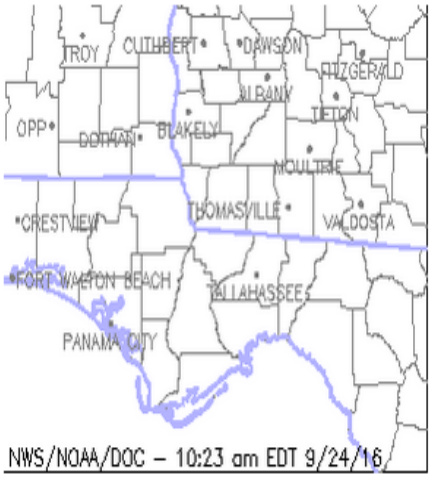
TALLAHASSEE SPOT FORECASTS

for

Saturday

Sep 24 2016

CALENDAR



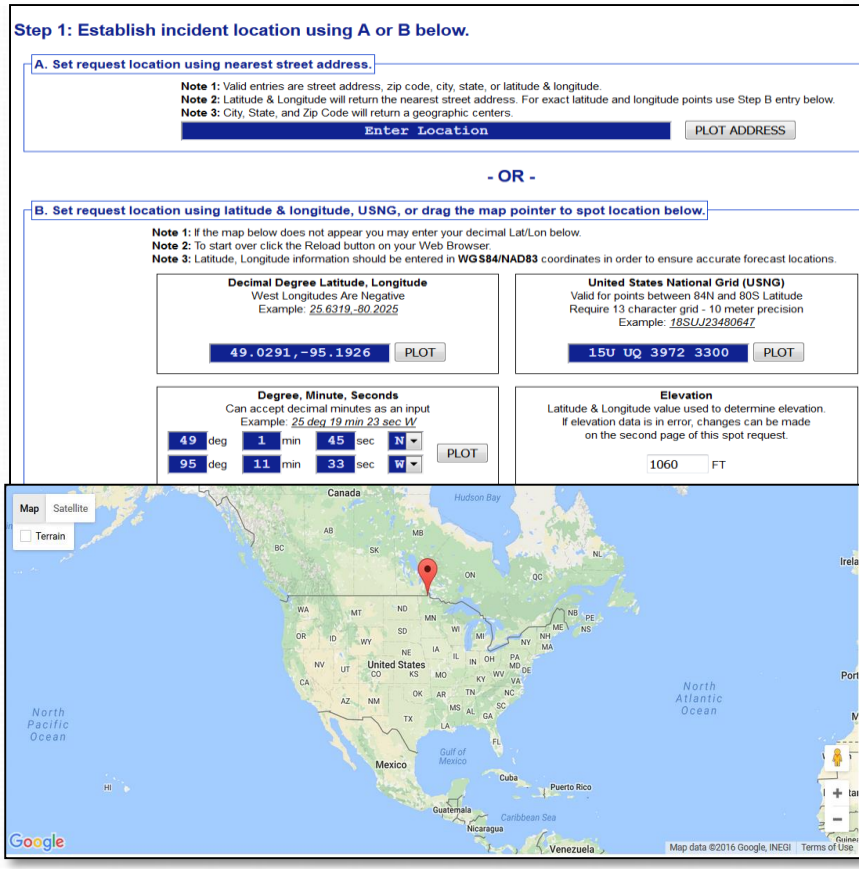
Submit a new Spot Request

NWS/NOAA/DOC – 10:23 am EDT 9/24/16

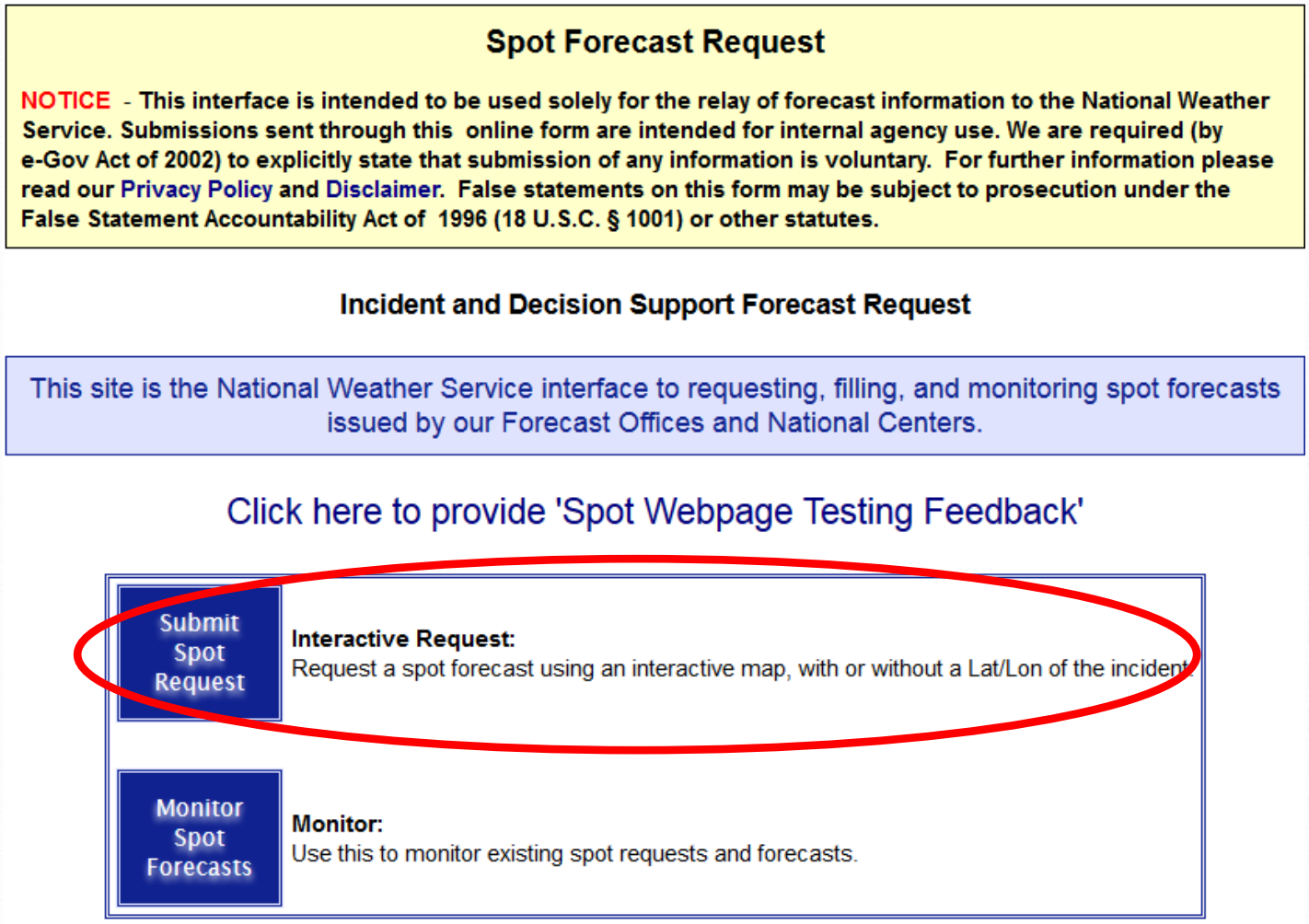
Pending Question Complete

Name	Ignition Time	Status
No Entries		

New Interface



Submit SPOT Request



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.

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,-80.2025*

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: *18SUJ23480647*

15U UQ 3972 3300 | PLOT

Degree, Minute, Seconds
Can accept decimal minutes as an input
Example: *25 deg 19 min 23 sec W*

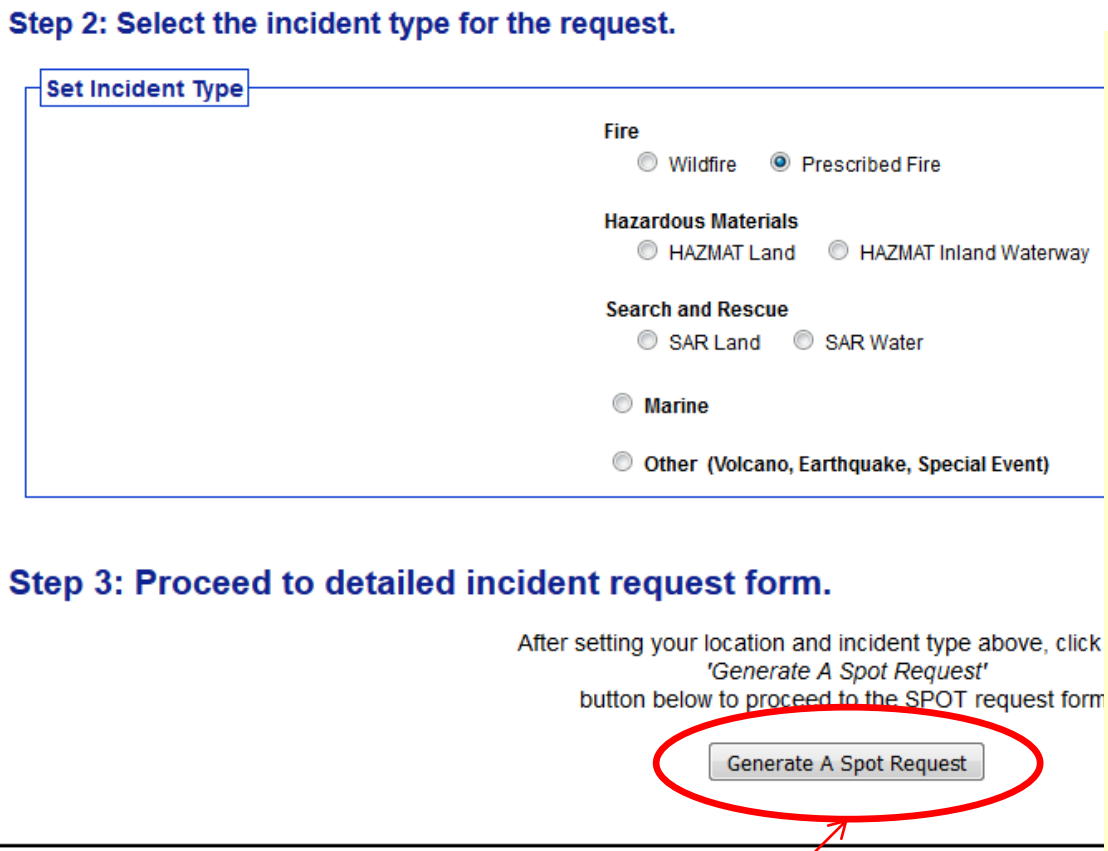
49 deg 1 min 45 sec N
95 deg 11 min 33 sec W
PLOT

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

- 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 Type Options



- 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.

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

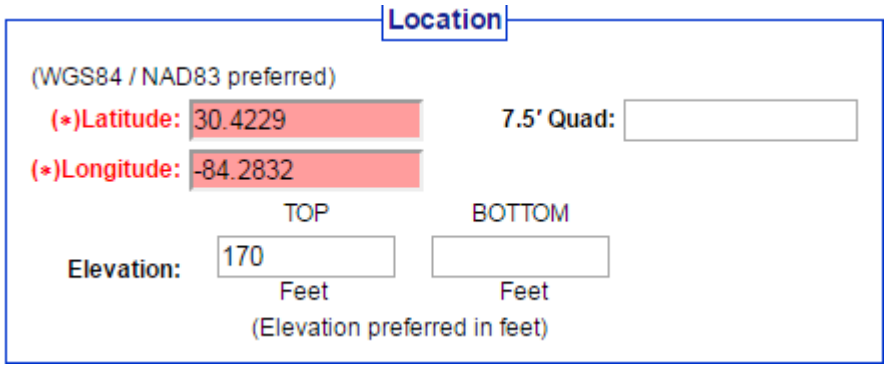
(*) Requesting Agency: National Weather Service
(*) Requesting Official: Tim Barry
(*) E-mail address: tim.barry@noaa.gov
(*) Phone number: 850 942 8833
Phone Extension:
Contact Person:
FAX number:

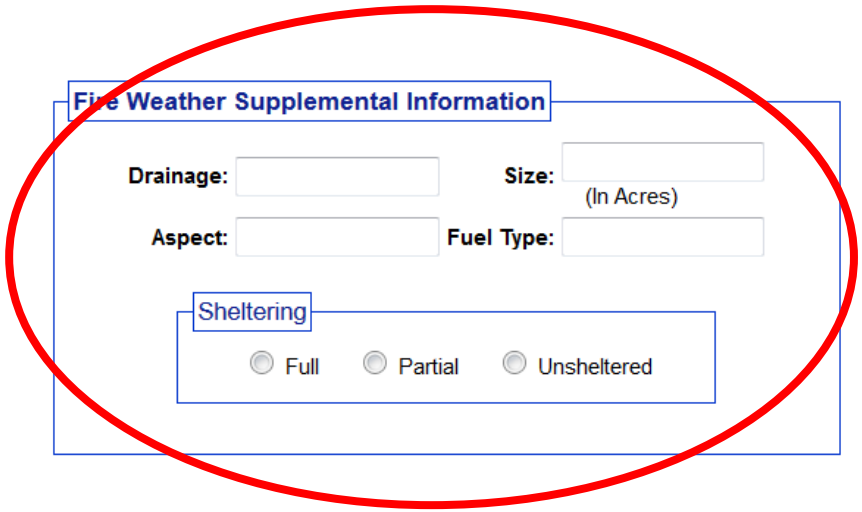
Reason For Prescribed Fire Spot Request

- 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-fire requests.

SPOT Location & Supplemental Info.



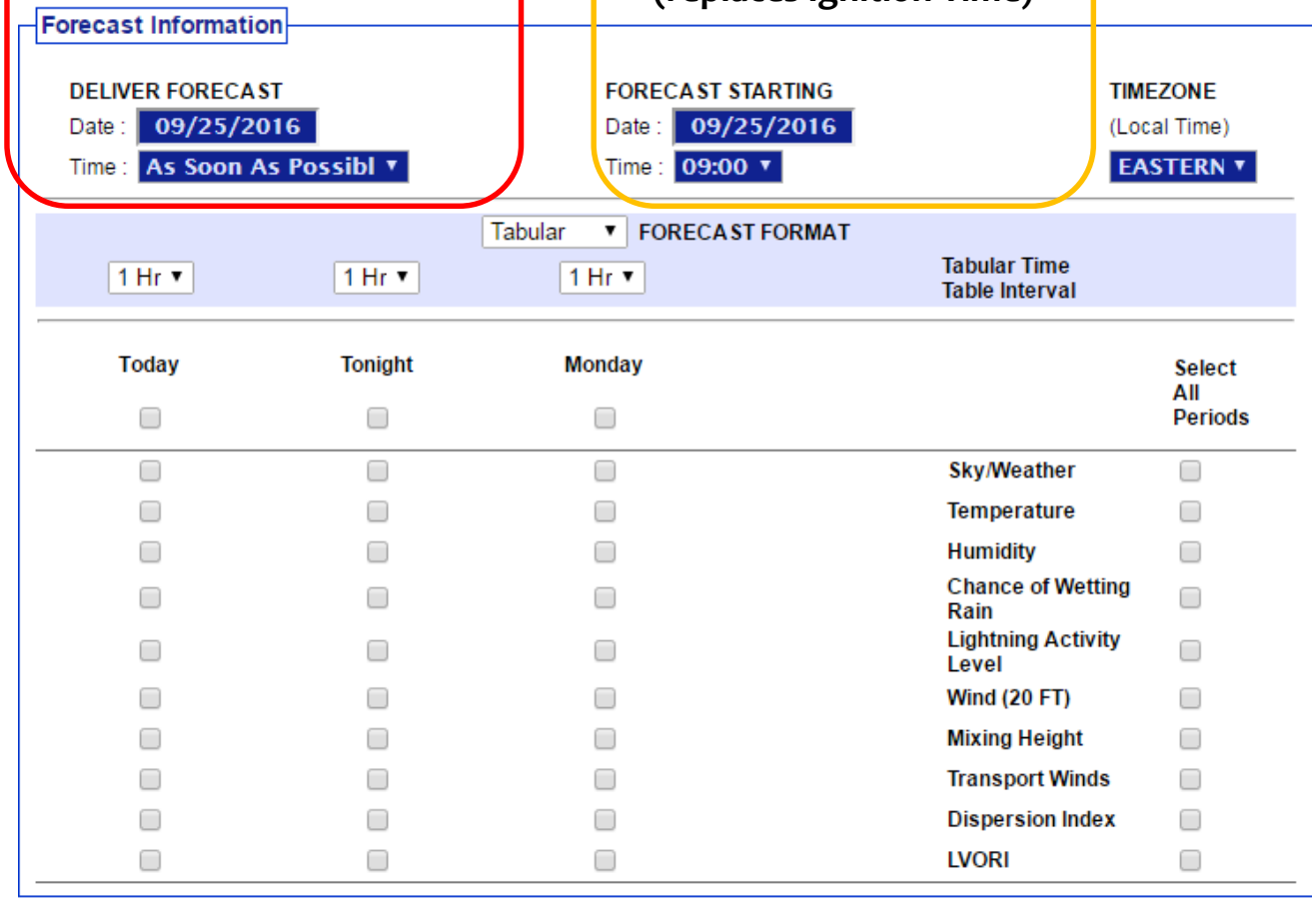


- Required fields are highlighted in red.
- Location & elevation are extracted from the first page.
- The **"Supplemental Info"** section shown in the example will disappear for non-fire requests.

SPOT Forecast Information

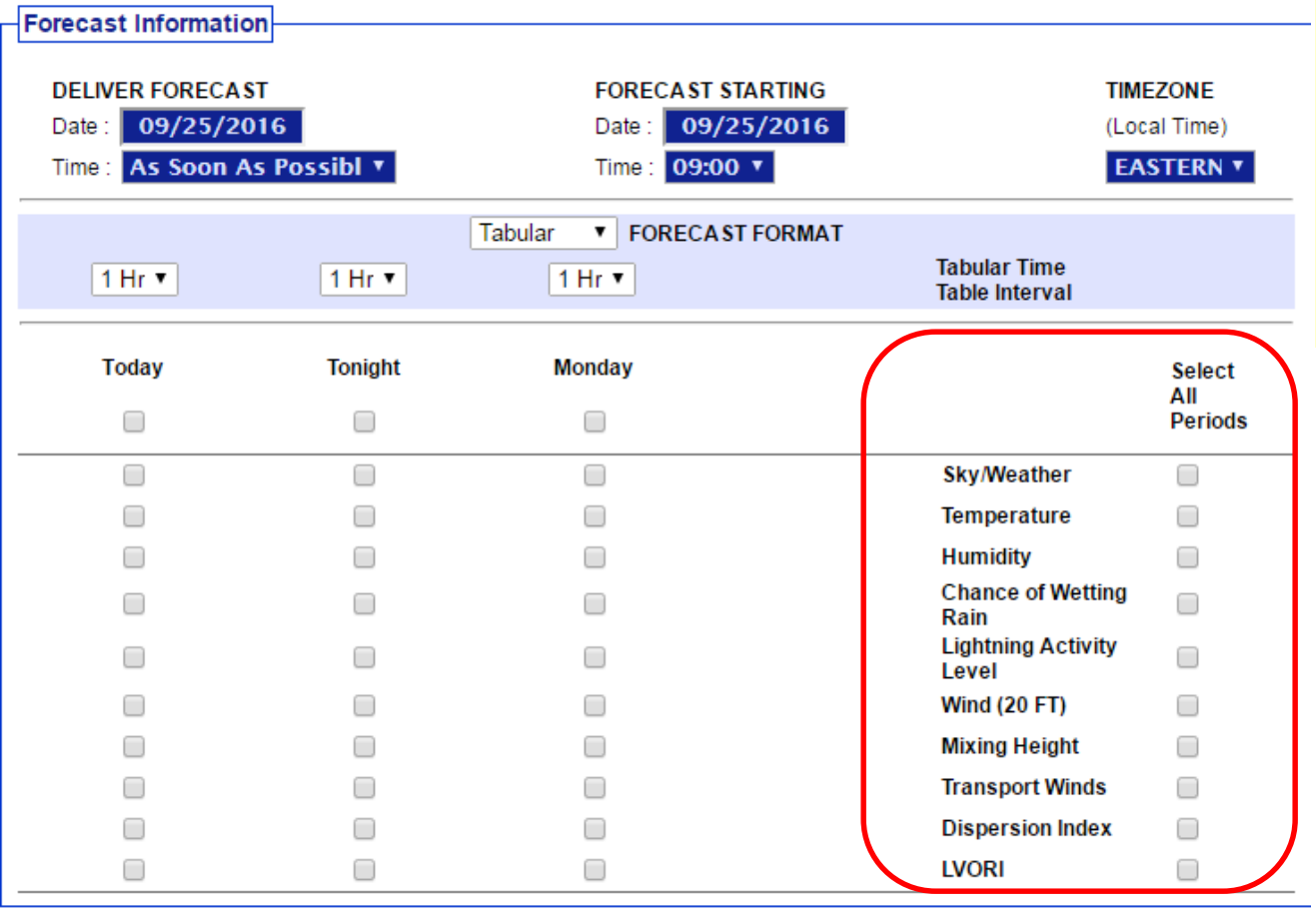
When you want the SPOT product from the NWS

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.

SPOT Forecast Information



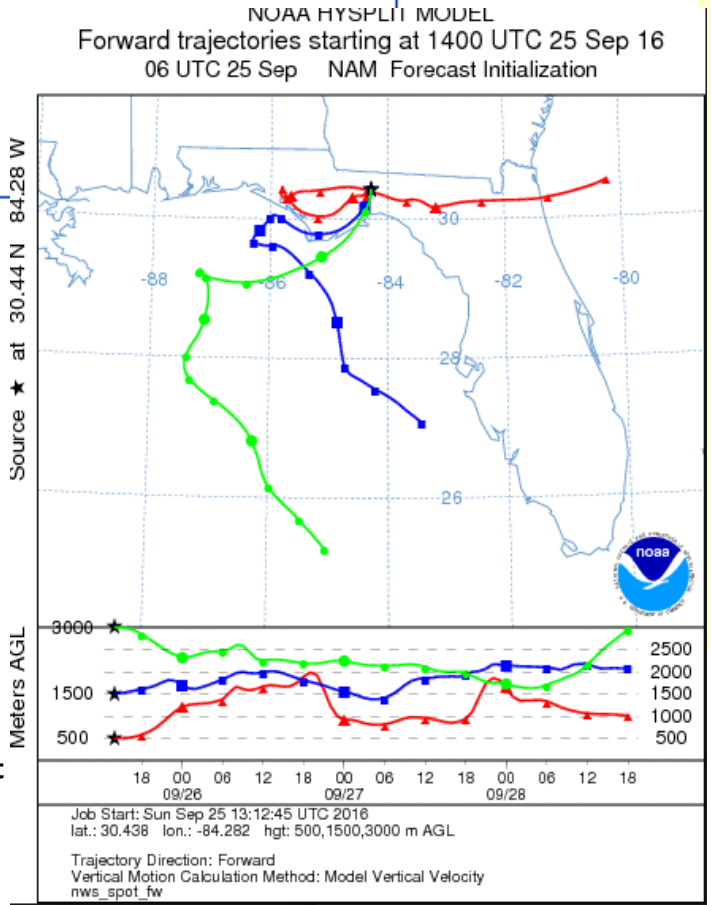
- Each incident type has a required minimum set of forecast elements that must be offered.
- Additional elements may be offered by incident type.

Hysplit Feature

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.

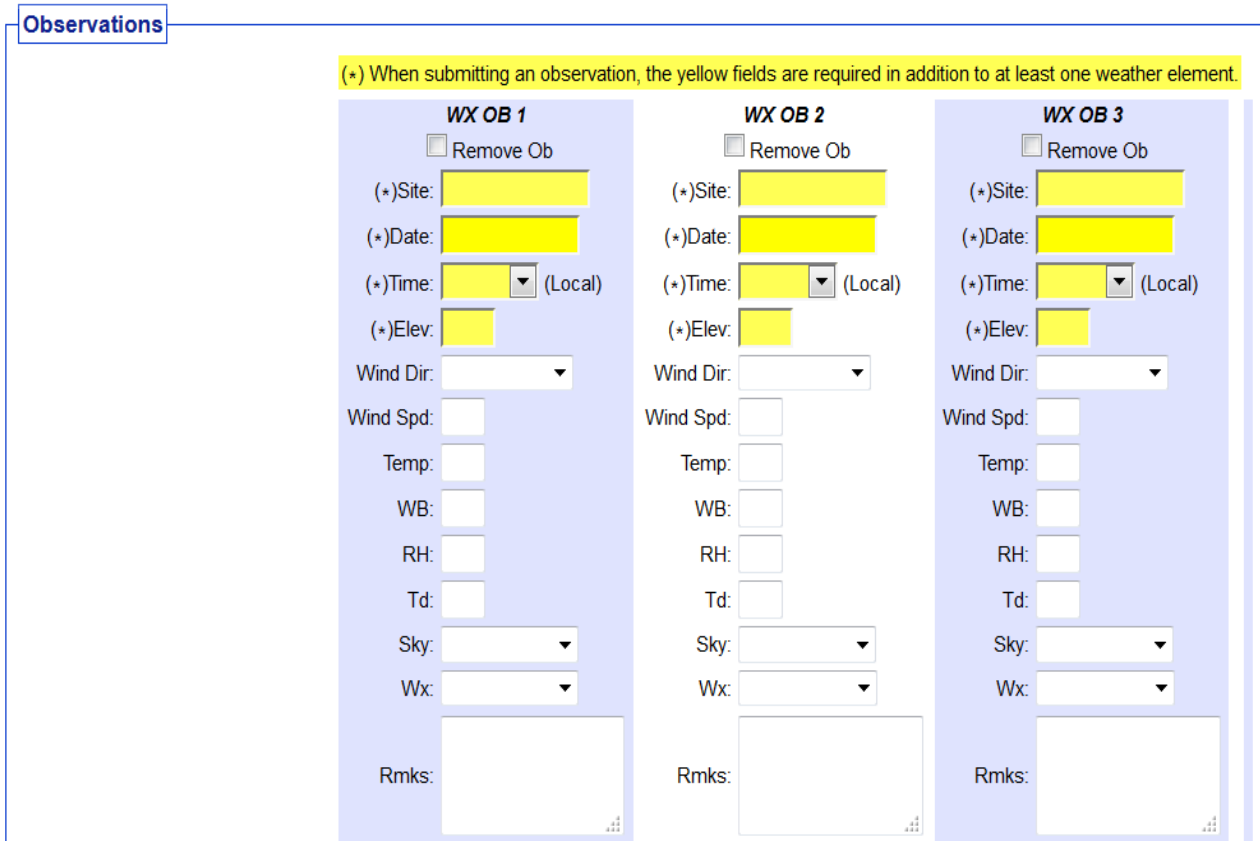
- ( ) YES
- (•) NO



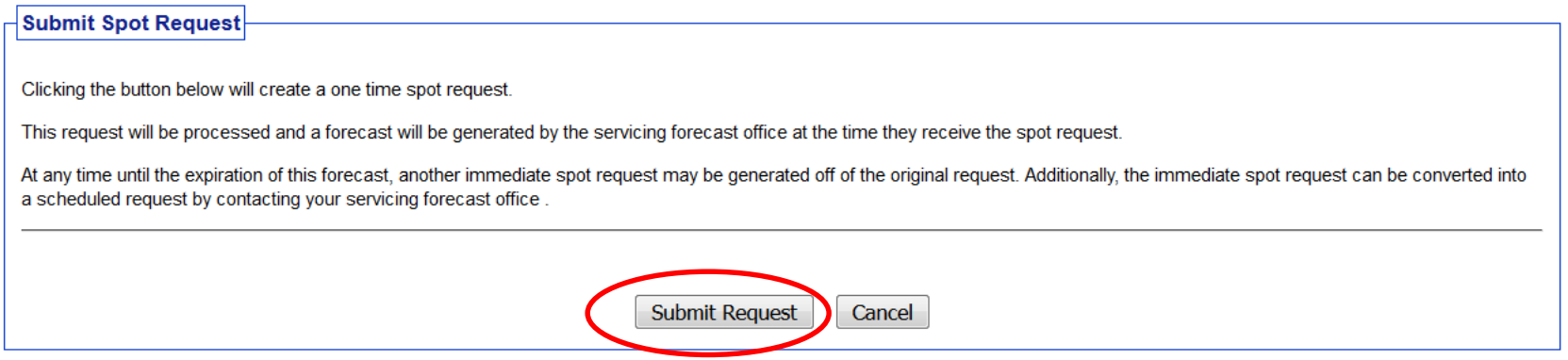
Example of Output from Email

- There is 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.

Observation Input



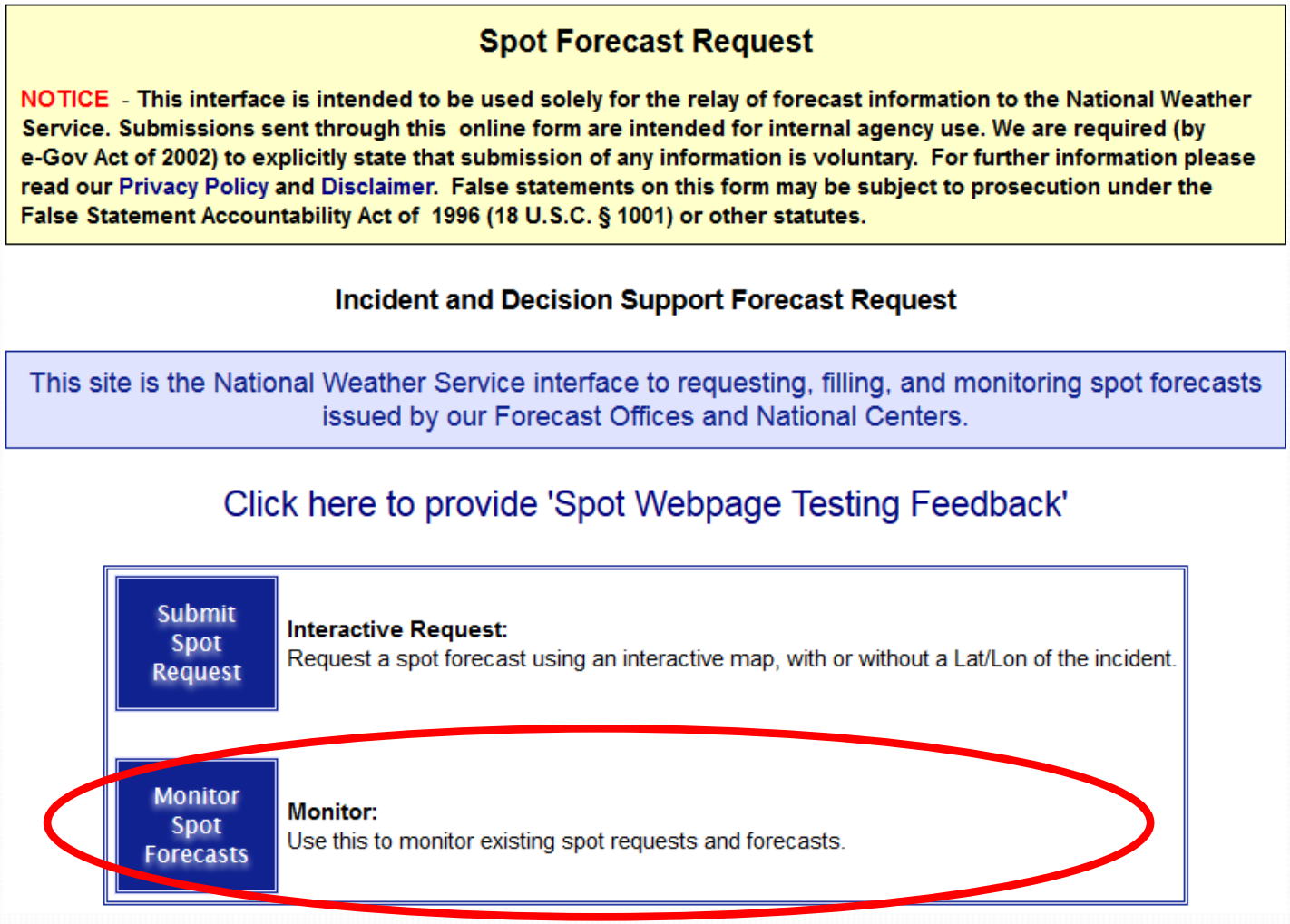
- Observation entry is a bit more standardized with the use of dropdown menus.
- Pressing the submit button will send a STQ notification message to the WFO just like the old web page did



SPOT Request to the NWS

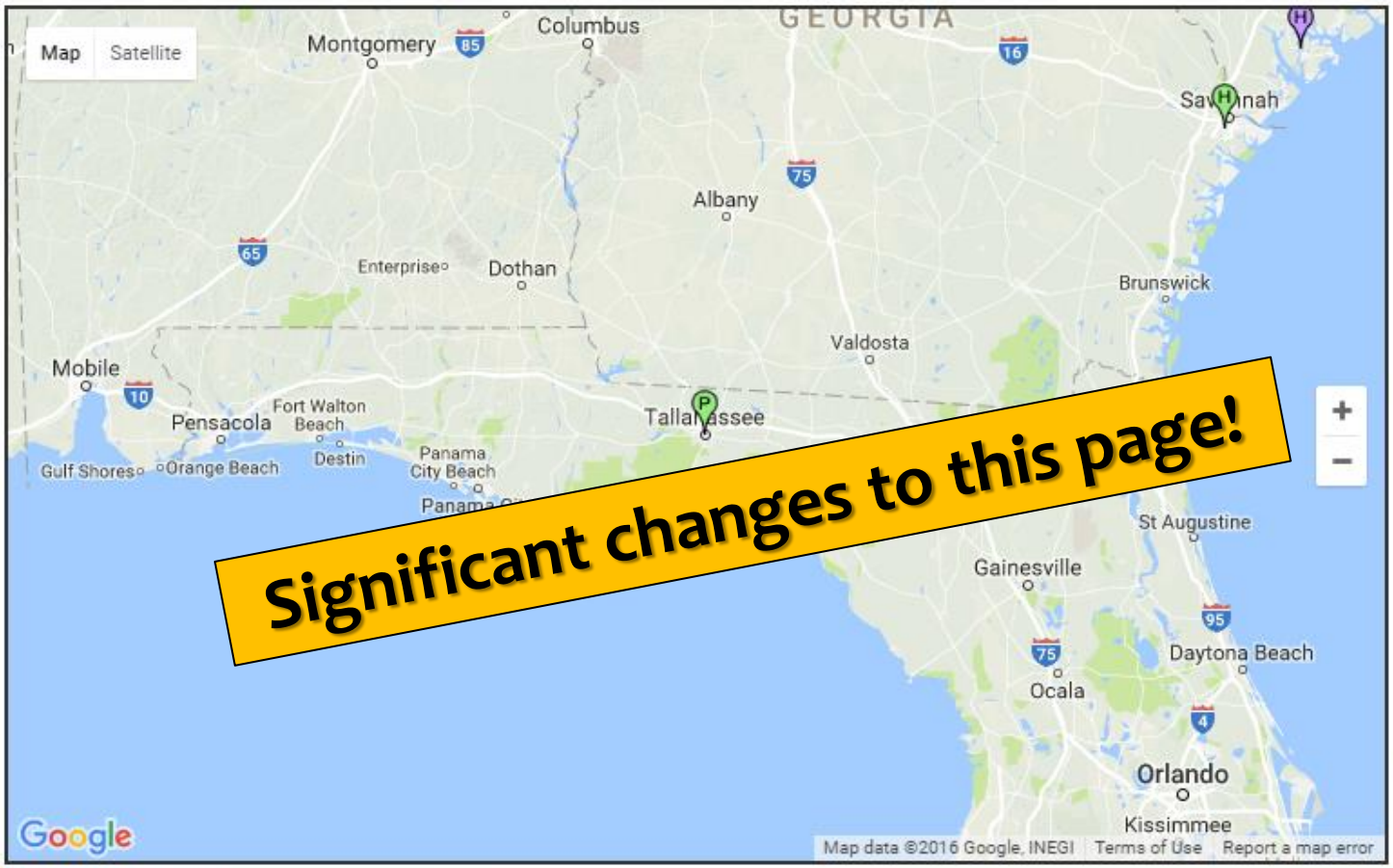
```
.DISCUSSION...
PRECIPITATION IS NOT EXPECTED AT THE BURN SITE TODAY. IF SHOWERS
AND THUNDERSTORMS WERE TO DEVELOP...THE BETTER CHANCES WOULD BE
WEST AND SOUTH OF THE BURN SITE...CLOSER TO THE COAST. WINDS WILL
GENERALLY BE FROM THE NORTH TODAY. MINIMUM RH VALUES THIS AFTERNOON
SHOULD BE IN THE MID 40 PERCENT RANGE.


.TODAY...
TIME (EDT)      9 AM   11 AM  1 PM   3 PM   5 PM
SKY COVER.......MCLEAR MCLEAR PCLDY  PCLDY  PCLDY
WEATHER COV.....
WEATHER TYPE....NONE   NONE   NONE   NONE   NONE
TEMP............77     85     89     91     92
RH..............79     63     54     49     46
20 FT WIND......N 3    N 3    N 6    N 7    N 7
20 FT WIND GUST.5      5      10     10     10
MIX HGT (FT)....1800   4600   6000   6800   7000
TRANSPORT WIND..NW 3   NW 8   NW 8   NW 9   N 7
DISPERSION IDX..8      42     52     64     49
CWR.............0      0      0      10     10

.TONIGHT...
TIME (EDT)      6 PM   8 PM   10 PM  MIDNGT 2 AM   4 AM
SKY COVER.......PCLDY  PCLDY  PCLDY  PCLDY  MCLEAR MCLEAR
WEATHER COV.....
WEATHER TYPE....NONE   NONE   NONE   NONE   NONE   NONE
TEMP............89     84     81     78     76     75
RH..............52     65     72     82     87     87
20 FT WIND......N 6    N 5    SW 2   S 2    SE 2   NE 1
20 FT WIND GUST.10             5      5      5      5
MIX HGT (FT)....5500   2500   1100   400    400    400
TRANSPORT WIND..N 7    E 5    E 5    SE 3   E 2    E 2
DISPERSION IDX..40     2      2      1      1      1
CWR.............10     10     10     10     0      0

.SATURDAY...
TIME (EDT)      6 AM   8 AM   10 AM  NOON   2 PM   4 PM
SKY COVER.......MCLEAR PCLDY  PCLDY  PCLDY  PCLDY  PCLDY
WEATHER COV.....                             S CHC  S CHC
```

Monitor SPOT Request



SPOT Monitor Interface

NWS Spot Forecast Monitor



Significant changes to this page!

Submit New Spot Request

Calendar

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

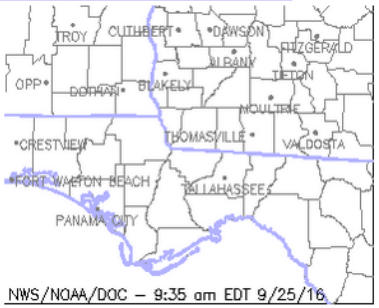
TALLAHASSEE SPOT FORECASTS

for

Sunday

← Sep 25 2016 →

CALENDAR



Submit a new Spot Request

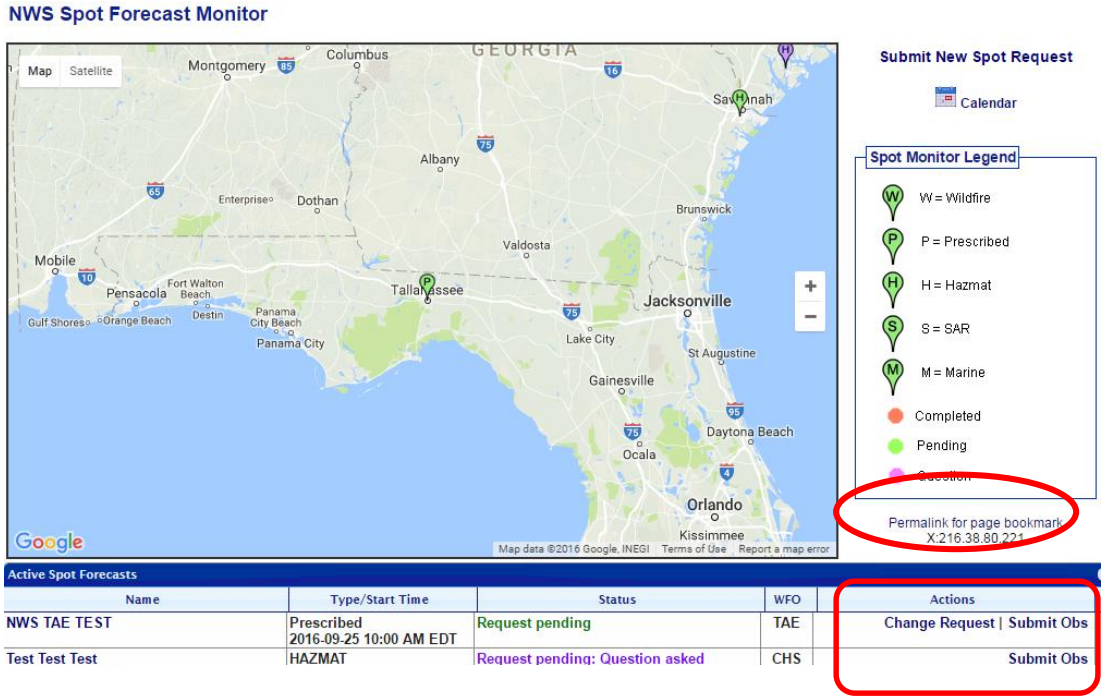
NWS/NOAA/DOC – 9:35 am EDT 9/25/16

Pending Question Complete

Name	Ignition Time	Status
No Entries		

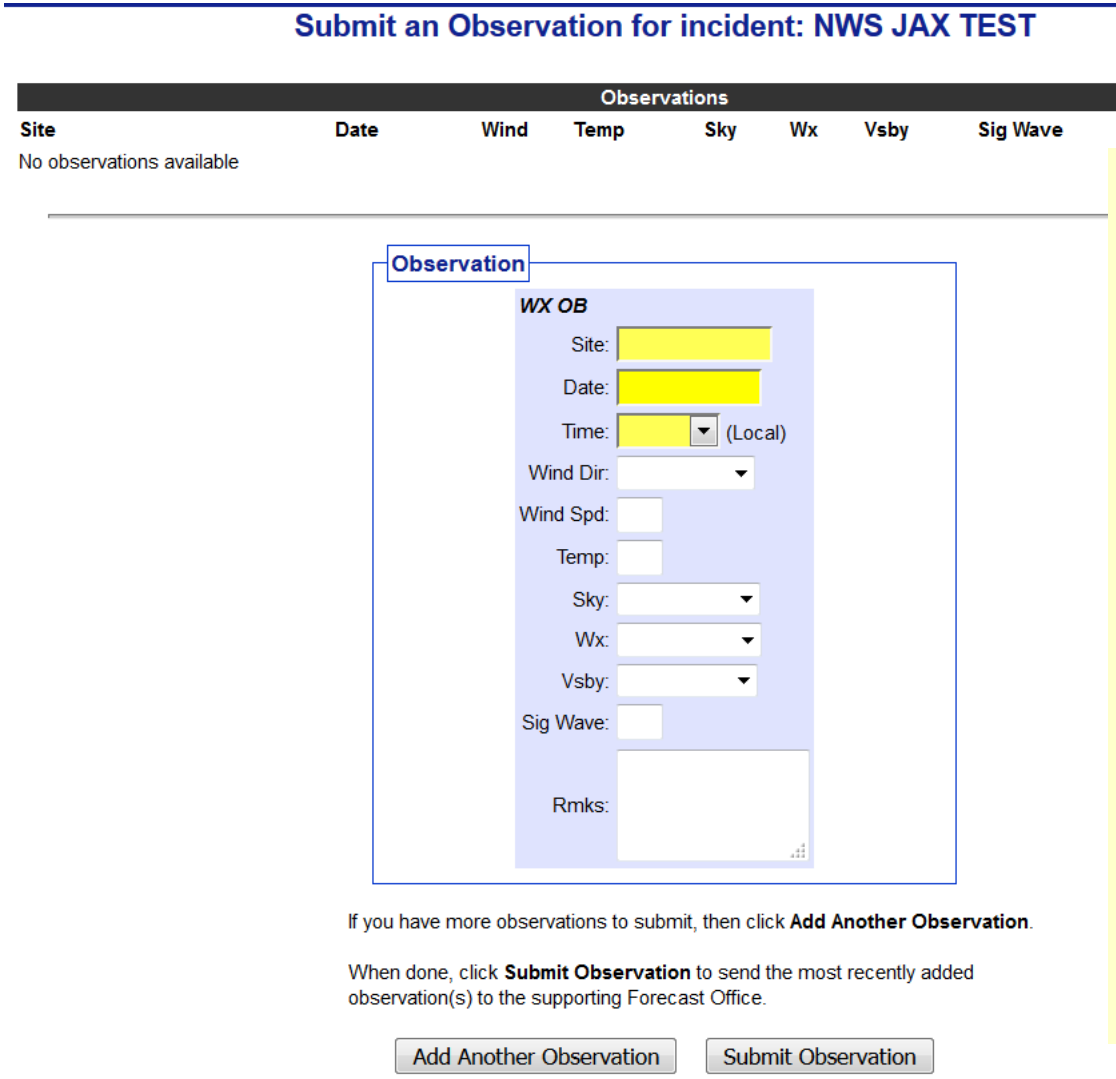
- Multiple requests for the same incident clutter up the display with multiple lines.

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.

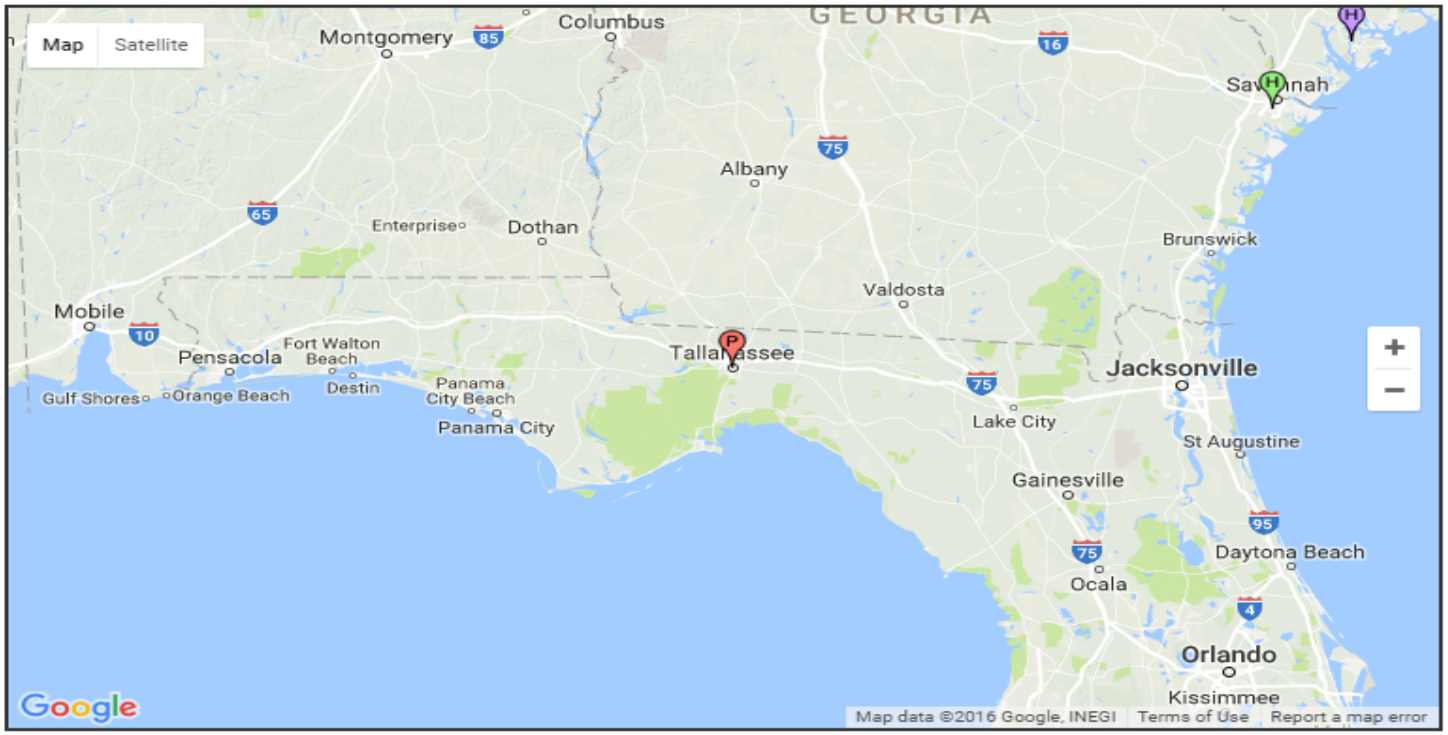
Submit Observations



- 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.

Access your SPOT

NWS Spot Forecast Monitor



Submit New Spot Request

Calendar

Spot Monitor Legend

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- Completed
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- 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	Completed: 2016-09-25 9:22 AM EDT	TAE	Submit Obs
Test Test Test	HAZMAT	Request pending: Question asked	CHS	Submit Obs
TEST TEST TEST	HAZMAT	Request pending	CHS	Submit Obs

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.

NWS TAE TEST

Prescribed Fire

Forecast Start Time:2016-09-25 10:00 AM EDT
Request Time: 2016-09-25 9:12 AM EDT
Forecast Complete At: 2016-09-25 9:22 AM EDT

Requested By: National Weather Service
Contact: Tim Barry
Phone: 850 942 8833
Fax:

Location Legal:
Lat/Lon: 30.438 / -84.282
Quad:
Calculated: 30.438 / -84.282

Elevation: 205
Drainage:
Aspect:
Size:
Fuel Type:

Observations

Site	Date	Elev	Wind	Temp	WB	RH	Td	Sky	Wx	Rmks

No observations available

FORECAST IS BASED ON IGNITION TIME OF 1000 EDT ON SEPTEMBER 25.
IF CONDITIONS BECOME UNREPRESENTATIVE...CONTACT THE NATIONAL WEATHER SERVICE AT (850)942-8833.

.DISCUSSION...

THIS IS A TEST...TEST...TEST...TEST...TEST...TEST...THIS IS A TEST

.TODAY...

TIME (EDT)	10 AM	NOON	2 PM	4 PM
SKY COVER	PCLDY	PCLDY	MCLDY	MCLDY
WEATHER COV			CHANCE	CHANCE
WEATHER TYPE	NONE	NONE	RNSHWR	RNSHWR
TEMP	81	86	89	89
RH	74	63	54	56
20 FT WIND	E 3	E 3	E 5	E 6
20 FT WIND GUST	5	5		10
TRANSPORT WIND	NE 5	NE 5	E 3	E 3
MIX HGT (FT)	2900	5000	6500	5900
TRANSPORT WIND	NE 5	NE 5	E 3	E 3
DISPERSION IDX	16	28	27	25
CWR	10	10	30	30

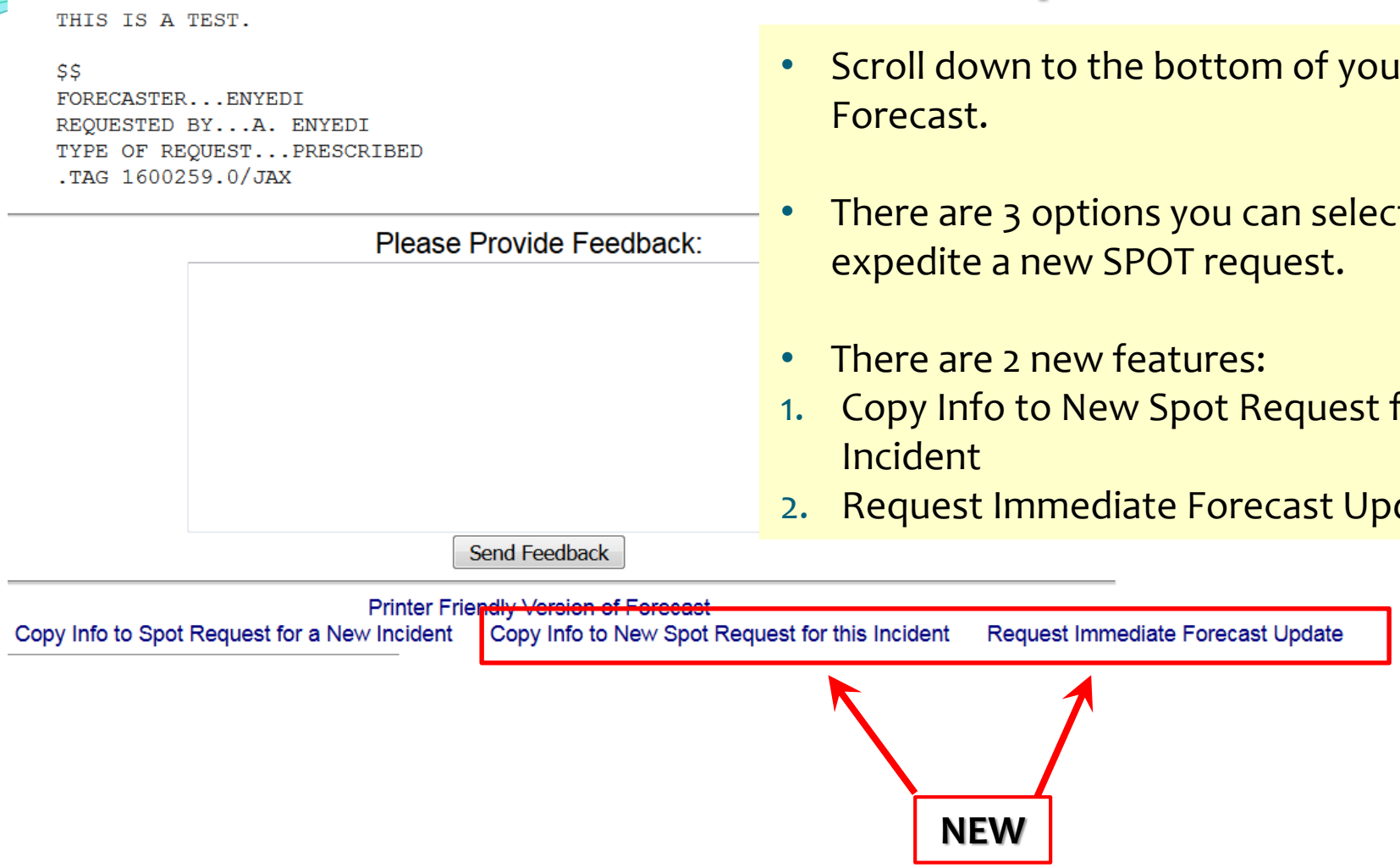
.TONIGHT...

TIME (EDT)	6 PM	8 PM	10 PM	MIDNGT	2 AM	4 AM
SKY COVER	MCLDY	MCLDY	MCLDY	MCLDY	MCLDY	MCLDY
WEATHER COV	CHANCE	CHANCE	CHANCE	CHANCE		
WEATHER TYPE	RNSHWR	RNSHWR	RNSHWR	RNSHWR	NONE	NONE
TEMP	85	80	79	77	76	75
RH	63	79	82	87	87	90
20 FT WIND	E 6	E 5	E 3	E 3	E 3	NE 3
20 FT WIND GUST	10		5	5	5	5
TRANSPORT WIND	E 2	SE 8	SE 8	E 5	E 5	E 5
MIX HGT (FT)	4200	1400	800	500	500	500
TRANSPORT WIND	E 2	SE 8	SE 8	E 5	E 5	E 5
DISPERSION IDX	15	5	3	2	2	2
CWR	30	30	30	30	10	10

.MONDAY...

TIME (EDT)	6 AM	8 AM	10 AM	NOON	2 PM	4 PM
SKY COVER	MCLDY	MCLDY	MCLDY	MCLDY	MCLDY	MCLDY
WEATHER COV		S CHC	S CHC	S CHC	CHANCE	CHANCE
WEATHER TYPE	NONE	RNSHWR	RNSHWR	RNSHWR	RNSHWR	RNSHWR
TEMP	74	74	80	84	88	88
RH	93	93	79	67	57	55
20 FT WIND	NE 3	NE 3	NE 5	E 6	E 6	E 6
20 FT WIND GUST	5	5		10	10	10
TRANSPORT WIND	NE 5	NE 6	NE 6	E 5	E 3	E 3

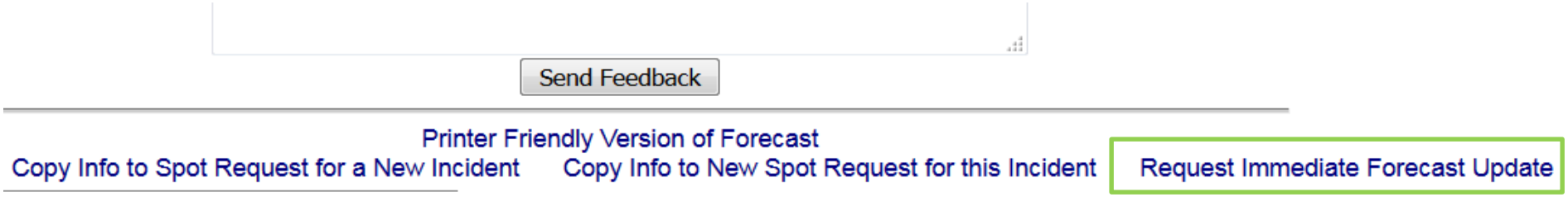
Future SPOT Requests



- 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.

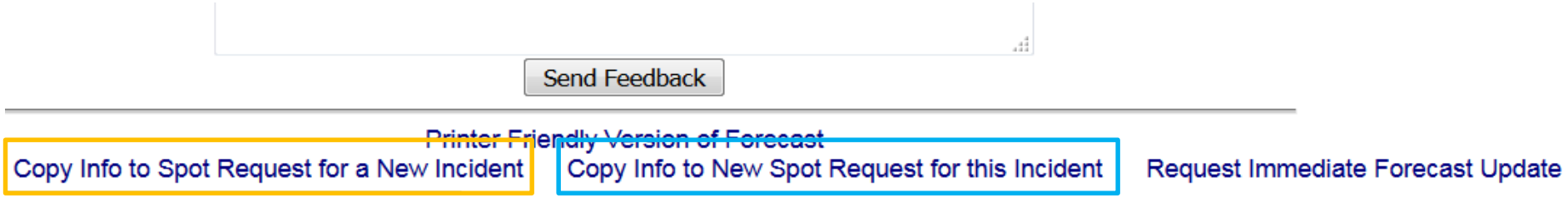
Request Immediate Forecast Update



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 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.