

Transportation Corridor Assessment # for Sunset June 23<sup>nd</sup>  
to Sunrise June 24<sup>rd</sup>, 2012

***“Conditions for Super-Fog Event will be present”***

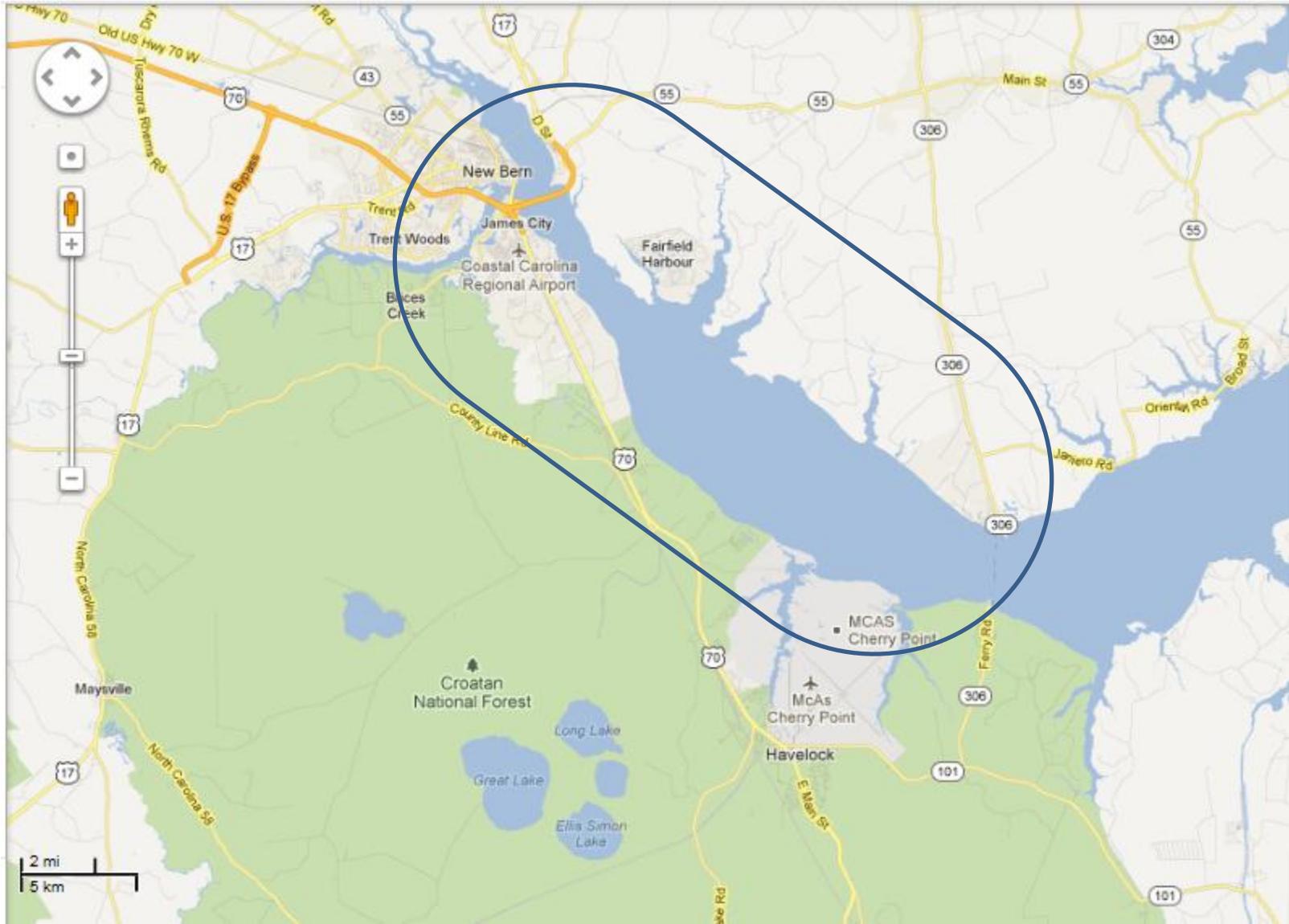
The following Maps are being provided as fire / smoke intelligence. They serve to advise you of where, when and what roadways can possibly be affected by using the HYSPLIT Atmospheric Dispersion model.

Smoke Analysts: Bill Jackson & Gary Curcio

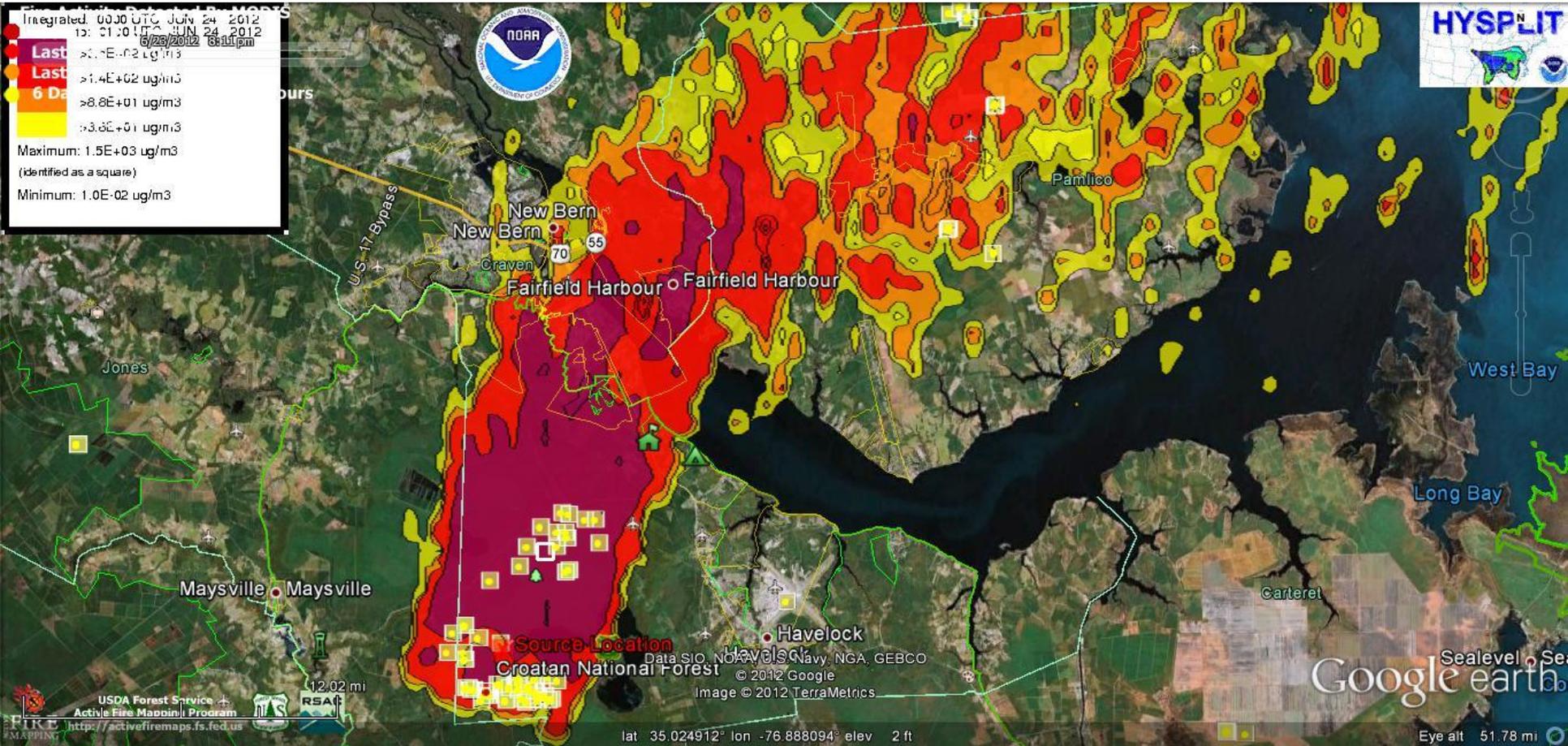
## Points to be considered June 23<sup>st</sup> to June 24<sup>nd</sup>, sunset to sunrise

- The smoke movement will continue to follow the same geographic area from sunset to sunrise.
- ***However there is a distinct difference “tonight”, there is the potential for “a Super-Fog Event” along Hwy 70, surrounding areas as well as other State Hwys.***
  - *Environmental conditions have been evaluated and the immediate areas are prone for a Super-Fog Event*
- All Super-Fog variables are expected to come into alignment from 5:00 am to 9:00 am June 24<sup>th</sup>.
- There will be very little wind and air movement from midnight to 7:00 am. The smoke will have no place to disperse and it will find the nearest drainages or lowest ground and pool.
- In super-fog events visibility can be below 1 foot.
- From sunset to midnight smoke impact will concentrate from New Bern to the Croatan District Ranger Office, and from midnight to sunrise the smoke impact will concentrate from the Croatan District Ranger Office to Havelock. The vectored plume and noticeably smoke drift can be 5 to 7 miles wide.
- Other potential impacted Hwys. remain the same (55, 306, & 304). The public needs to be advised of the potential need to exercise extreme caution if driving tonight from midnight to sunrise between New Bern and Havelock. In a whiteout or super-fog event no highway is safe for travel.
- The most critical time for smoke dispersion will be at 5:00 am to 9:00 am. It will not be dispersing versus pooling and accumulating. Smoke will be forced to stay at the surface with very little horizontal movement.
- The LVORI maximum will be 8 which is the highest it has been in 2 days.
- **SPECIAL NOTE :** The models have indicated the potential for this Super-Fog event for the last 48 hrs. This information has not changed nor has the wildfire’s smoke assessment. If anyone has questions or you need to reach me, please use my cell number. It is 919-642-7635. Be Safe tonight.

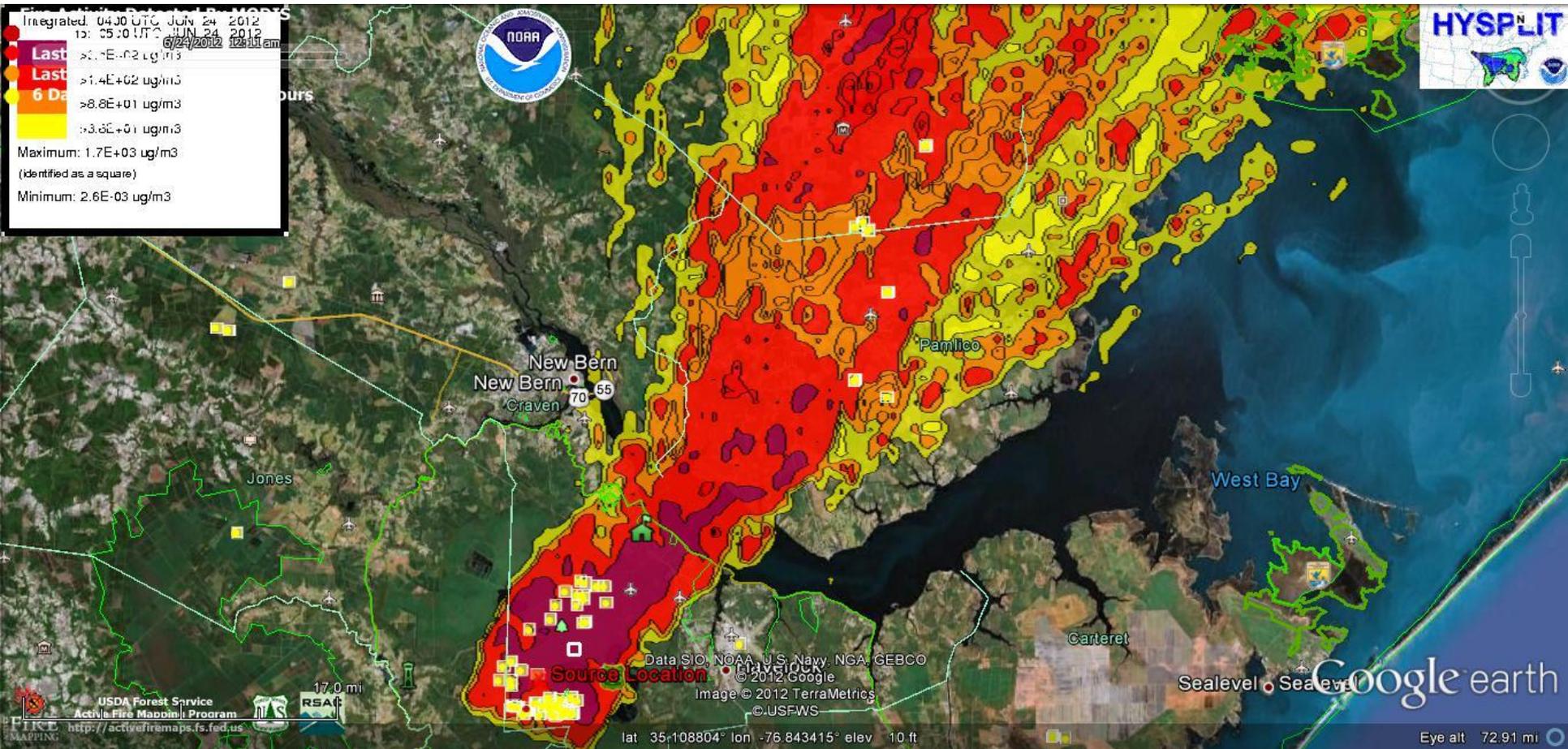
**State Hwys. and secondary roads that can be impacted tonight.**  
**HWY 70 is of immediate concern as it is closet to the wildfire. From New Bern to Havelock with increased wildfire smoke in the air and modeled weather conditions anticipated, a Super-Fog Event is primed to occur. All agencies need to plan accordingly and be prepared to respond.**



# Smoke Plume approximately at Sunset / 8:00 pm June 23rd

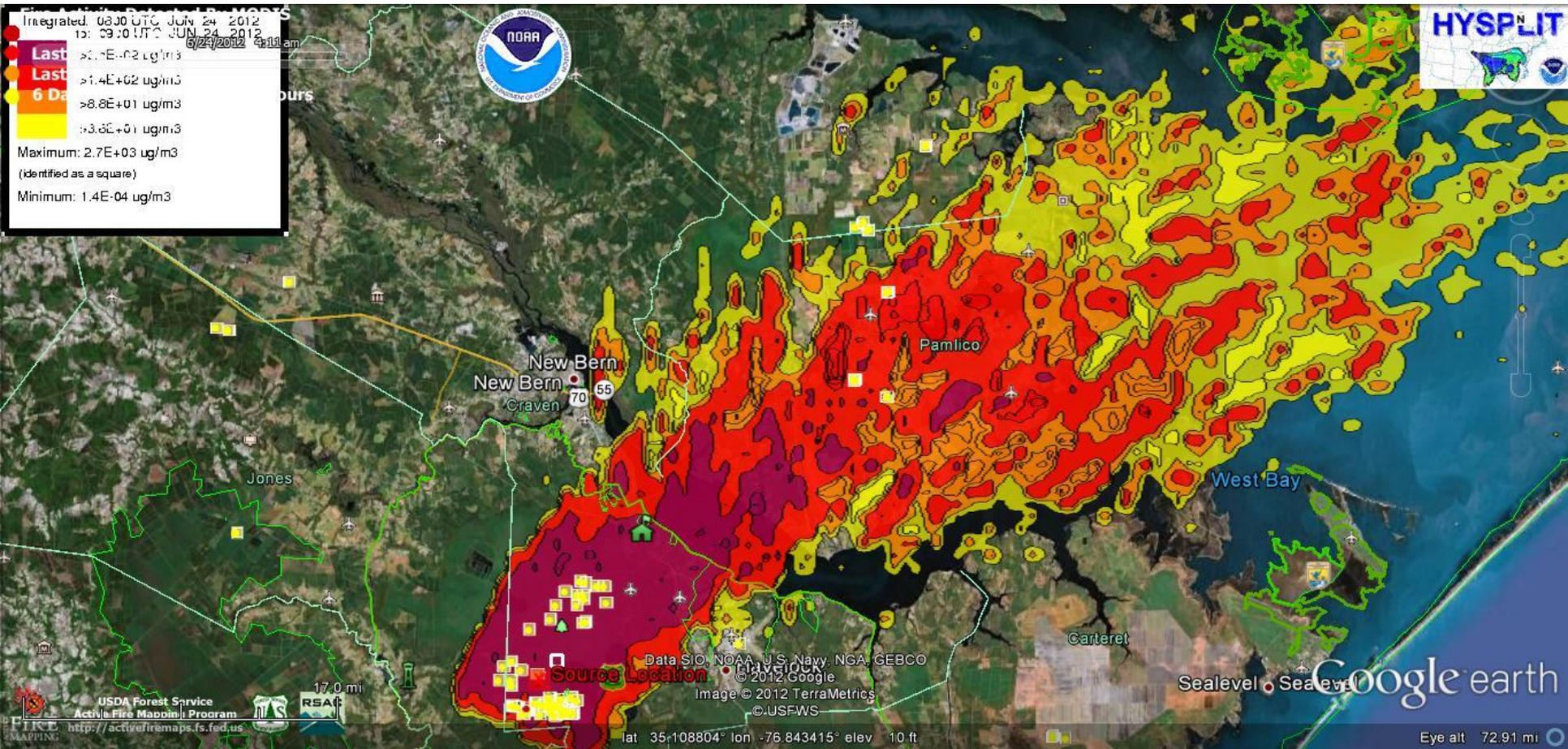


# Smoke Plume Midnight June 23<sup>rd</sup> – 00:00 am.

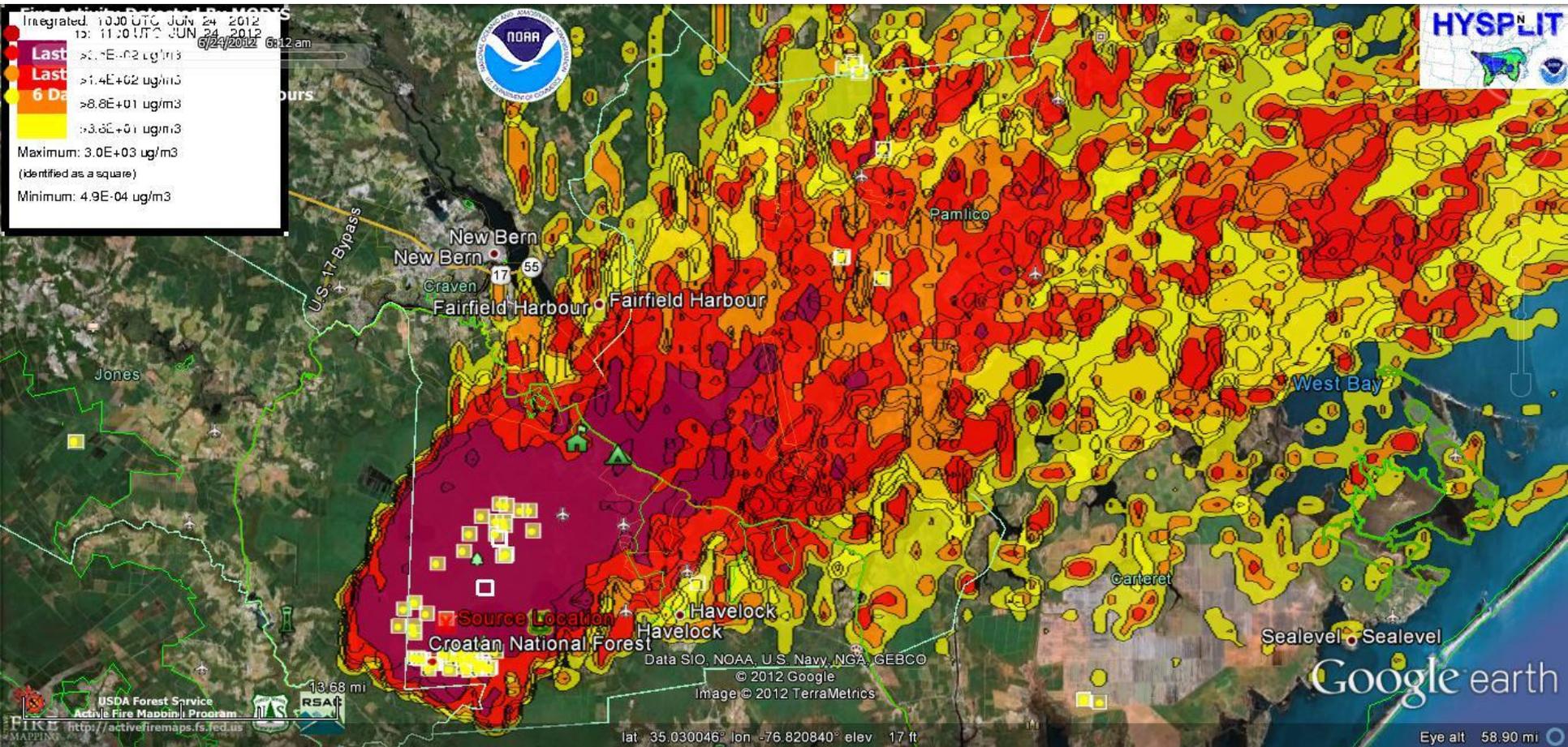




# Smoke Plume 4:00 am June 23<sup>rd</sup>



# Smoke Plume 6:00 am June 24<sup>th</sup>



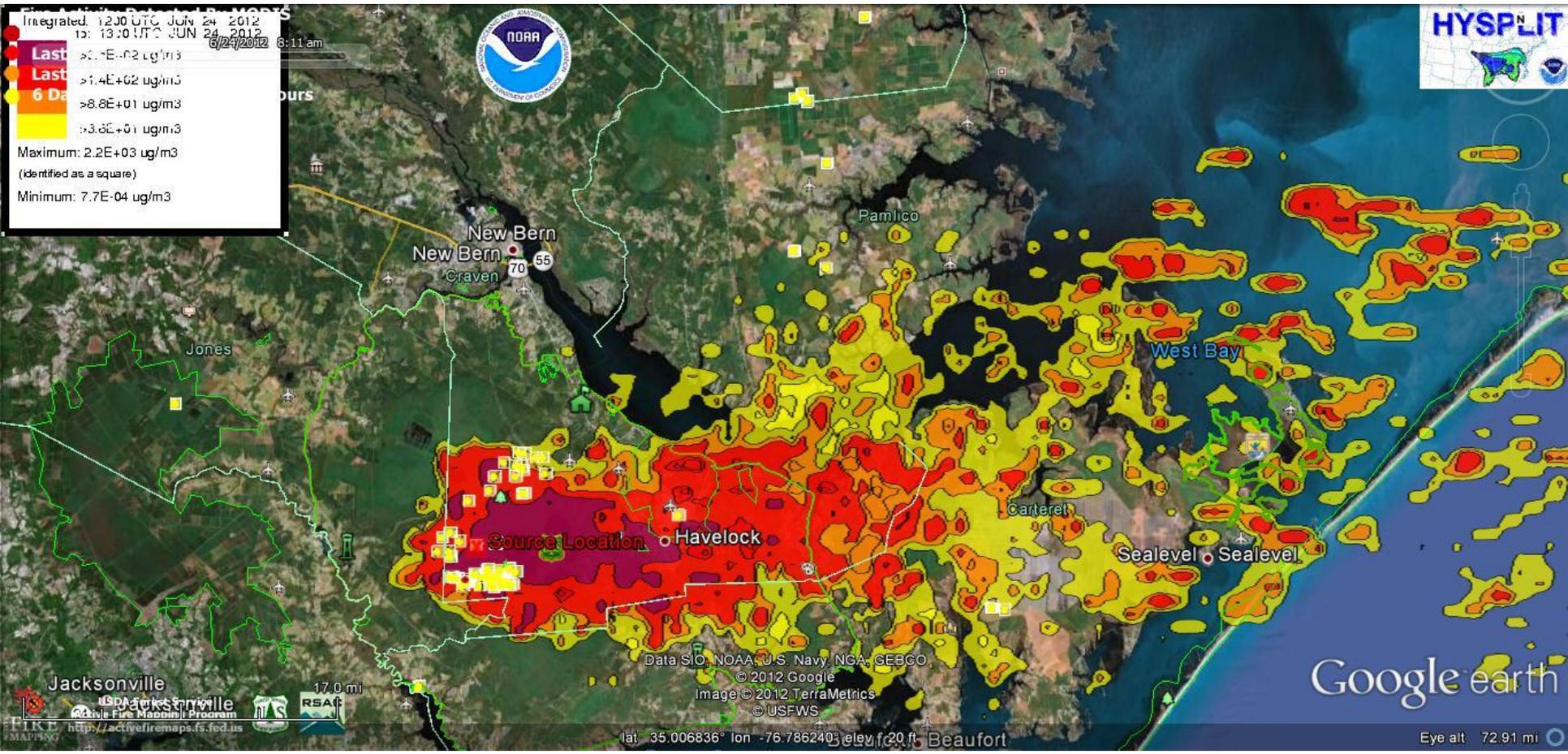
# Smoke Plume 8:00 am June 24<sup>th</sup>

Integrated: 12:00 UTC JUN 24 2012  
13:00 UTC JUN 24 2012  
6/24/2012 8:11am

Last  
Last  
6 Days

- >1.4E+02 ug/m3
- >1.4E+02 ug/m3
- >8.8E+01 ug/m3
- >3.8E+01 ug/m3

Maximum: 2.2E+03 ug/m3  
(identified as a square)  
Minimum: 7.7E-04 ug/m3



Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
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Google earth

lat 35.006836° lon -76.786240° elev 20 ft Beaufort

Eye alt 72.91 mi

Jacksonville  
17.0 mi  
Rackstrawville  
Mobile Fire Mapping Program  
http://activefiremaps.fs.fed.us  
MAPPING