Mapping/ NOAA Aerial Imagery for Day to Day and Emergencies

31st Annual Meeting

Alabama Forest Owner's Association, Inc

Mark F Beeler, R.F.
University Forester
Land Management and Real Estate Services
University of Alabama

2011 Preliminary Annual Statistics

- -NWS's preliminary estimate is that there have been 1,691 tornadoes in 2011.
- -The previous yearly record number of tornadoes was set in 2004 with 1,817.
- -The overall yearly average number of tornadoes for the past decade is 1,274.
- -The preliminary estimated number of tornado fatalities for 2011 is 550.
- -2011 is ranked as the 4th deadliest tornado year in U.S. history.

April 2011

- -April 2011 is ranked as the most active tornado month on record with 758. There were an estimated 364 fatalities.
- -The previous record for April tornadoes was set in April 1974 with 267 tornadoes.
- -The average number of tornadoes for the month of April during the past decade is 161.
- -The previous record number of tornadoes during *any month* was 542 tornadoes set in May 2004.
- -NWS records indicate 321 people were killed during the April 25-28 tornado outbreak.
- -NWS records indicate 360 people were killed by tornadoes during the entire month of April 2011.



Southern Region Headquarters



Home Site Map News Organization Search for: O NWS All NOAA Go

Tornado Tracks: April 24th through the 29th, 2011

Download the tornado track KML here: KML (Updated: April 12, 2012 1205 UTC)

Download Local Storm Reports (24th-29th): Shapefile | KML

This map is meant to show the general path of the tornadoes based on a few points. If you zoom down to the neighborhood level, the tracks will likely not match the exact Morgantown 0 Richmond Springfield Satellite Map Indianapolis Lancaster **O** Hamilton Kansas City Terre Haute Parkersburg O Columbus 0 Columbia Rockville O Bloomington Cincinnati St. Louis Washington Emporia Fredericksburg O'Fallon Louisville Harrisonburg Q Virginia Missouri Huntington Lexington Evansville OCharlottesville hita Richmond Cape Owensboro Girardeau Roanoke Springfield Kentucky Bowling Mark Twain Joplin Blacksburg O Green National Forest Petersburg B intlesville Norfolk Danville Kingsport Clarksville Daniel Boone 0 National Forest Tulsa Greensboro Paragould son City O Nashville Knoxville Raleigh homa O Rocky Mt Muskogee Fayetteville Hickory Jonesboro O Tennessee Asheville Jackson Kannapolis O Greenville Memphis Charlotte Favetteville Fort Smith C'.attanooga 00 Arkarsas Gastonia Nantahala Germantown Hunt-nile O Dalton Natio 0 O Little Rock Jacksonville O Greenville Pine Bluff Wilmington dale Anderson Alpharetta National Forest Columbia o South renada Sherman mingle in Atlanta Mississ ppi Myrtle El Dorado Greenville O McKinney Beach Augusta Summerville Macon Alabama **O** Dallas 0 auburn O Charleston Shreveport Monroe 0 0 Georgia Meridian 0 Desoto vicksburg O Columbus Montgomery Savannah O Hilton Head Kisatchie Albany EF-5 /aco orest 0 Hattiesburg Enterprise EF-4: Alexandria EF-3: College Dothan Valdosta Huntsville Mobile Crestview EF-2: Station 0 EF-1: Gulfport Jacksonville Conroe New 0 EF-0: Louisiana 0 Orleans Spring O Unknown Panama City Charles New Iberia Houston Sugar Land O O Palm Coast Houma Daytona

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



>> About NOAA

>> Contacts

>> Staff Directory

>> Help

>> SEARCH

Weather.gov Forecast >> GO City, ST

- » Active Weather Alerts >> NOAA Organizations
- >> Working With NOAA
- » Media & Constituents
- >> NOAA In Your State
- » Emergency Information for NOAA Employees

Related Links

>> NOAA's Office of Marine and Aviation Operations

Media Contact

>> John Ewald 240-429-6127



Share







Facebook







More Destinations

NOAA releases aerial imagery of Tuscaloosa, Ala. tornado damage

April 30, 2011

NOAA's National Geodetic Survey dispatched the NOAA King Air 350CER aircraft, equipped with specialized remote sensing equipment, on a mission to collect aerial photography at 5,000 feet from Tuscaloosa to Birmingham, Ala.

These "before and after" shots (pdf to right). taken yesterday afternoon, show damage caused by last week's tornado near 15th Street and McFarland Boulevard in Tuscaloosa.

Photos will be used to assist federal and local officials in response and recovery efforts.

UPDATE: All images from NOAA flights are being posted on this public website.

Hi-Res images available online.

For more information, contact: John Ewald, john.ewald@noaa.gov, 240-429-6127.

NOAA's mission is to understand and predict changes in the Earth's environment, from the depths of the ocean to the surface of the sun, and to conserve and manage our coastal and marine resources. Visit us on Facebook.

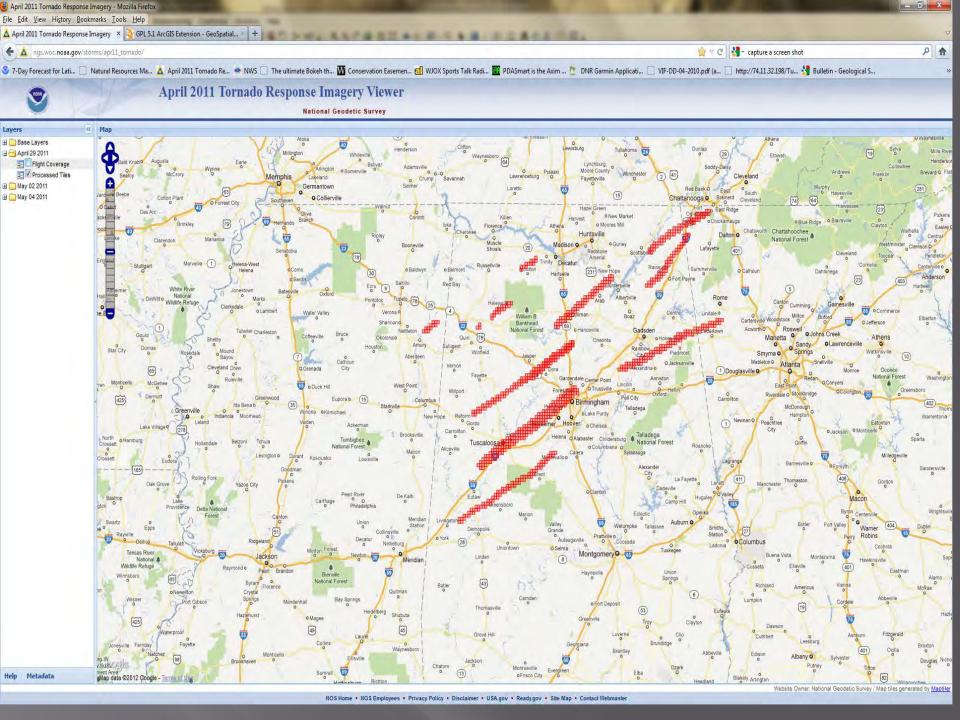




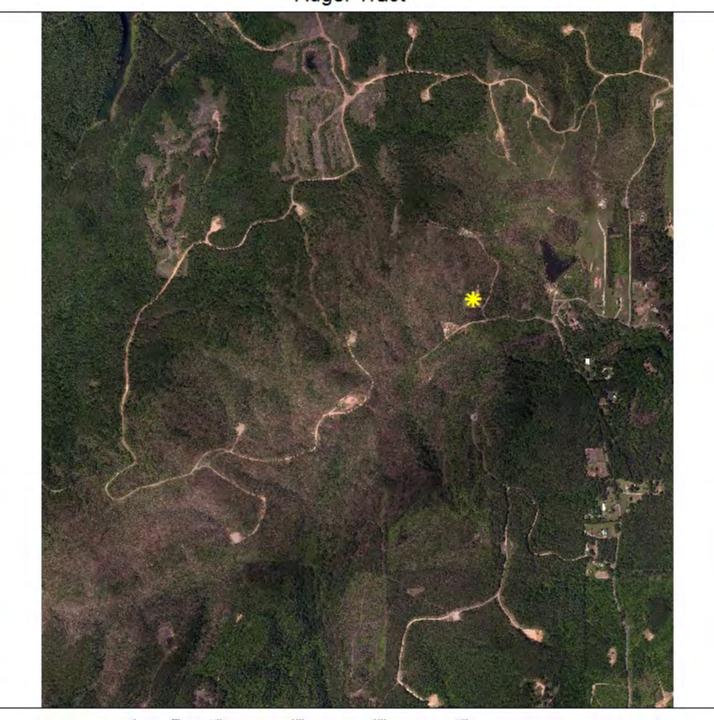
Before and after imagery depicting tornado damage in the vicinity of the intersection of 15th St. E. and McFarland Blvd. E. in southeast Tuscaloosa, AL. The before imagery is courtesy of Google, the after imagery was acquired from an altitude of 5,000 feet above ground level by the NOAA King Air April 29, 2011.

Hi-Res images available online.

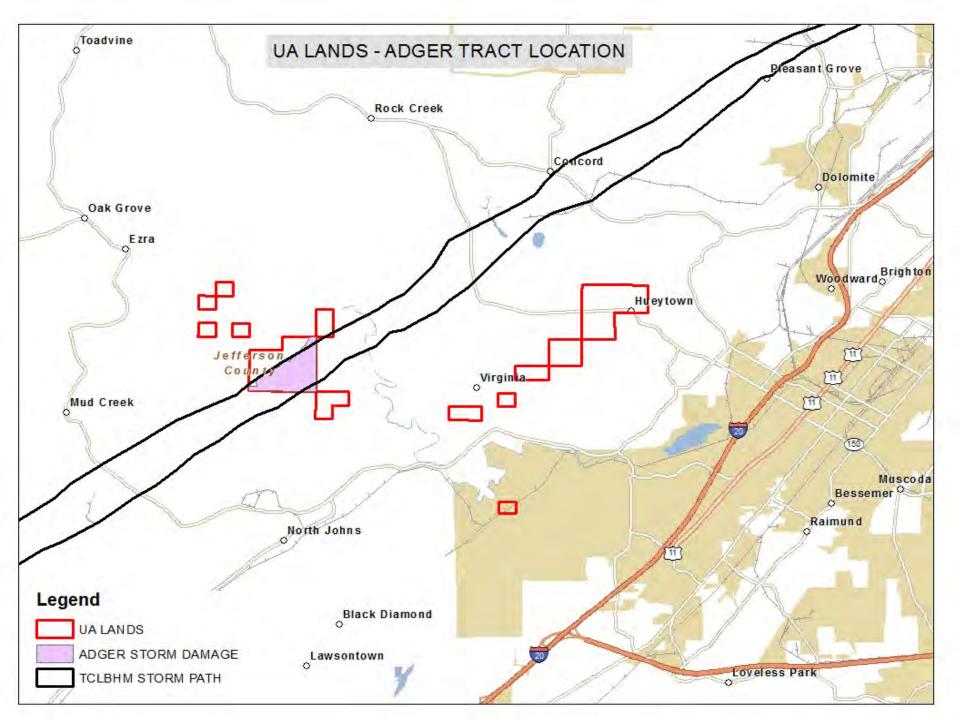
Download PDF here, (Credit: Google - before photo; NOAA after photo)



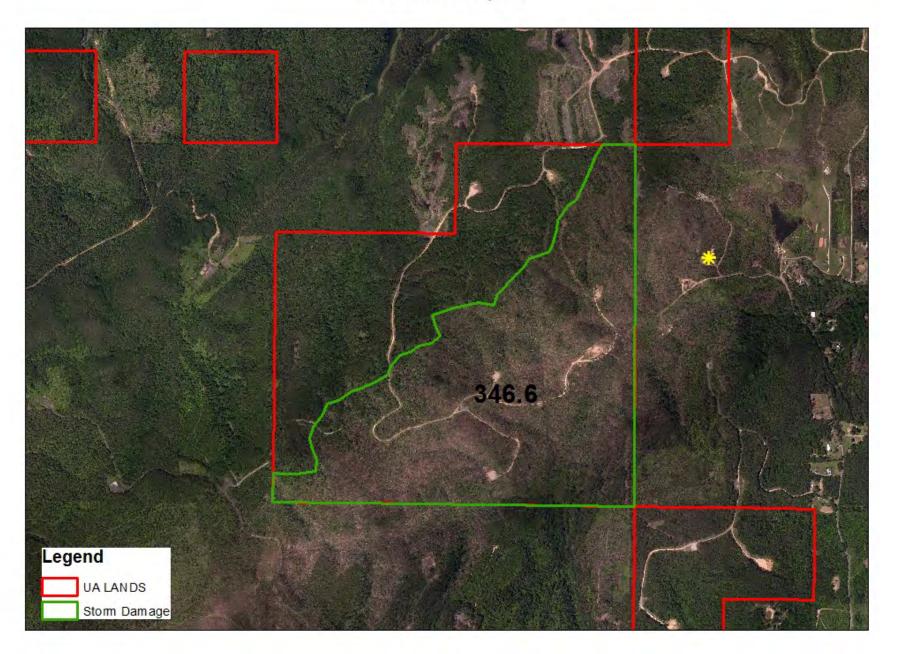








Adger Tornado area Jefferson County, AL





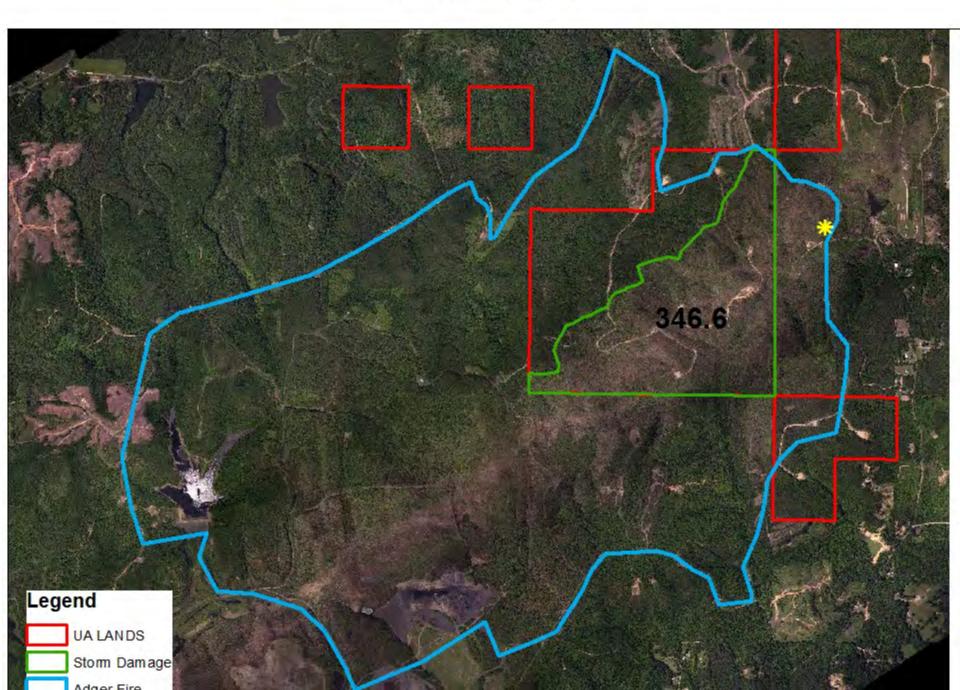








Jefferson County, AL















Emergency Response Imagery

National Geodetic Survey

Search

NGS Home About NGS Data & Imagery

The ima
Sensing
respons
efforts for

Navigation

National Geodetic Survey

Contact Us

Content and Technical Issues

Comments and Policy Issues The imagery posted on this site was acquired by the NOAA Remote

Sensing Division to support NOAA national security and emergency
response requirements. In addition, it will be used for ongoing research
efforts for testing and developing standards for airborne digital imagery.

Science & Education

Emergency Response Imagery:

Surveys

Hurricane Irene (2011): Web Map Interface HTML Interface

Joplin, MO Tornado (2011)

Tuscaloosa, AL Tornado (2011)

North Dakota Flooding (2011)

Tools

Hurricane Earl (2010): Web Map Interface HTML Interface

Nor'Easter Nov09 (2009)

Hurricane Ike (2008)

Hurricane Gustav (2008)

Hurricane Humberto (2007)

Tropical Storm Ernesto (2006)

Hurricane Wilma (2005)

Hurricane Rita (2005)

Hurricane Ophelia (2005)

Hurricane Katrina (2005)

Hurricane Dennis (2005)

Hurricane Ivan (2004)

Hurricane Jeanne (2004)

Hurricane Isabel (2003)

Website Owner: National Geodetic Survey / Last modified by NGS Webmaster Aug 29 2011



Center will make UA 'nerve center' for water research

The National Oceanic and Atmospheric Administration broke ground on Tuesday on a National Water Center.

The facility will be built on the Tuscaloosa campus of The University of Alabama.

Officials say the center will improve the forecasting and reporting of water crises which will better policy and safety.