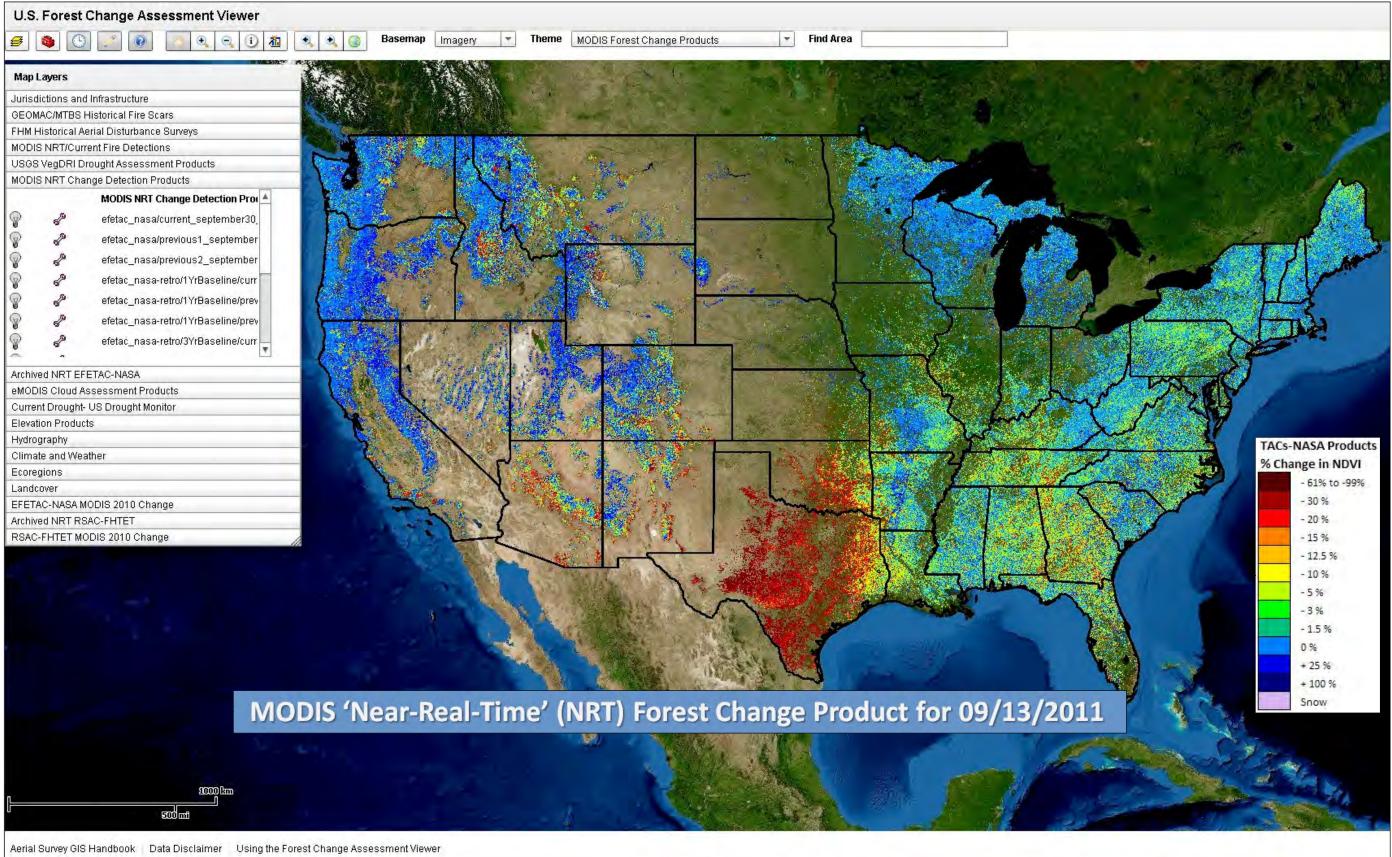
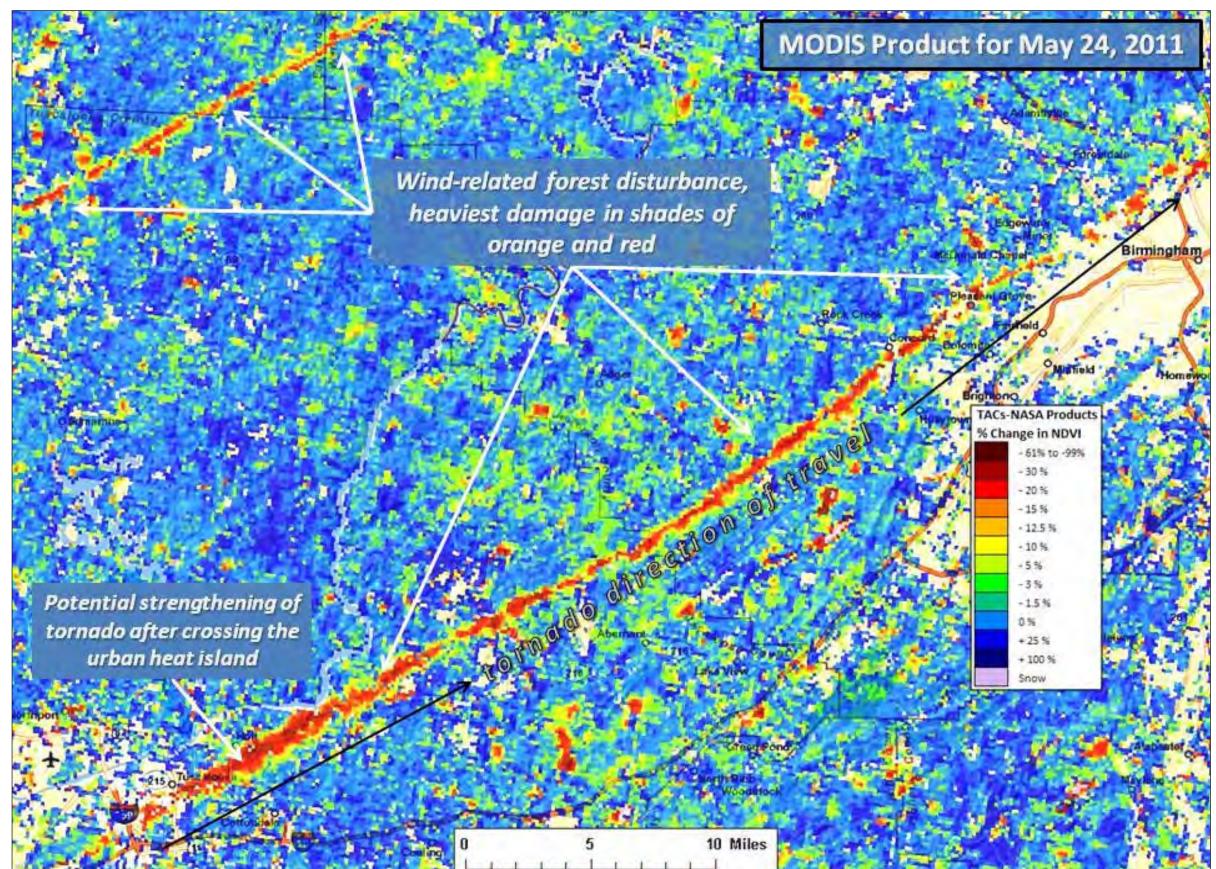


Viewer (FCAV) is a 🖻 🖲 🖾 💷 💷 🔍 national early warning system for Map Layers forest disturbances that provides continuously updated, near realtime forest disturbance products derived from the processing application is designed to facilitate collaboratio makers and the public to use to detect assess unexpected forest change our nation's The colors of such products depict changes in forest canopy greenness for a current 24 day period versus that for the previous 1, 3, or 8 years (baselines). Shades of blue-green to dark blue depict healthy forest greenness to the canopy greenness



reductions in in NDVI (Normalized Difference Vegetation Index) value when compared to the same time periods NDVI image versus the from one of the baselines. NDVI values are calculated via a normalized band ratio of red to infrared spectral historical baseline. Specifically, the channels from the MODIS satellite sensor. Forest change products are updated on the FCAV every 8-days colors denote the percent change nationwide. Visit http://ews.forestthreats.org or contact Bill Hargrove at hnw@geobabble.org.

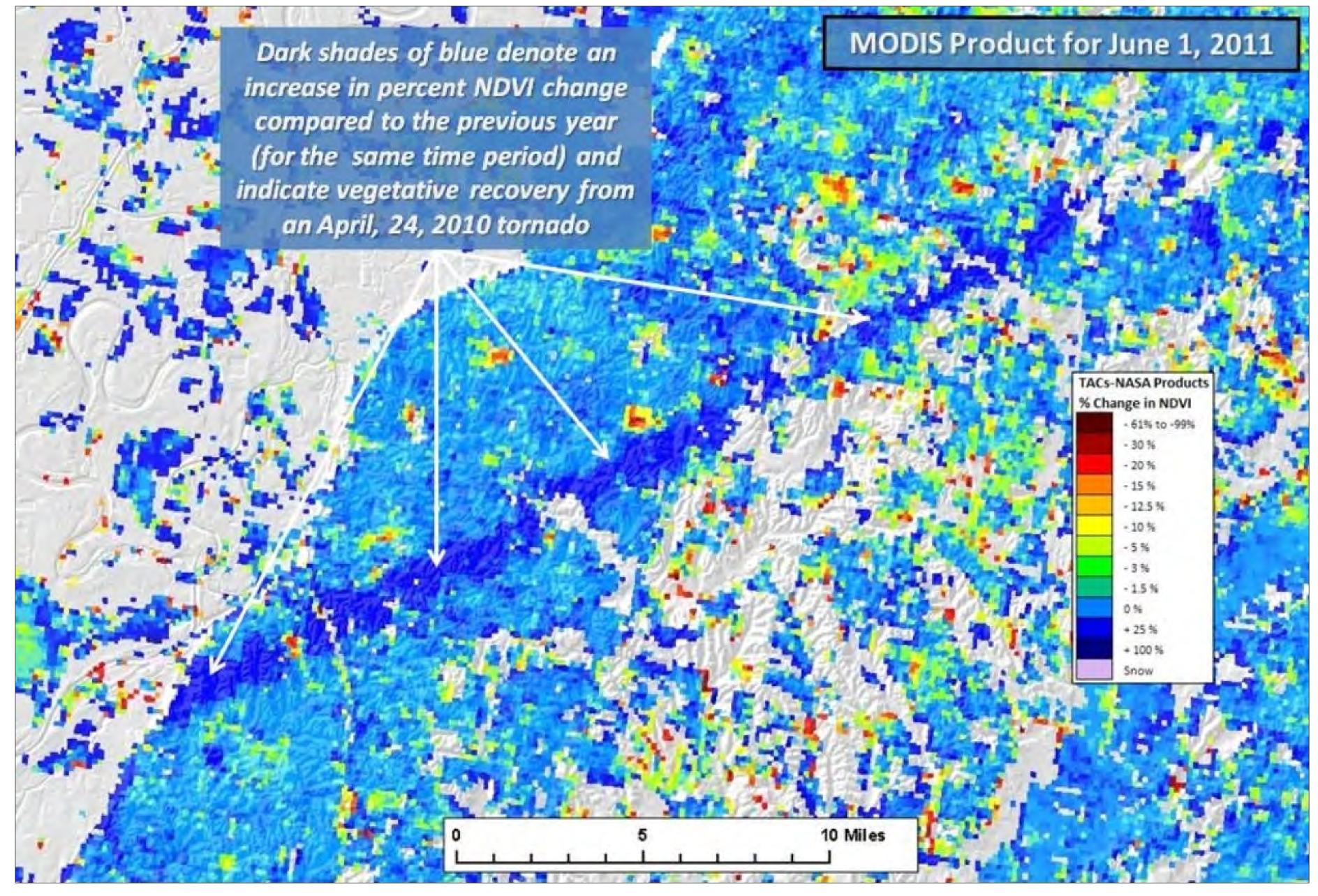






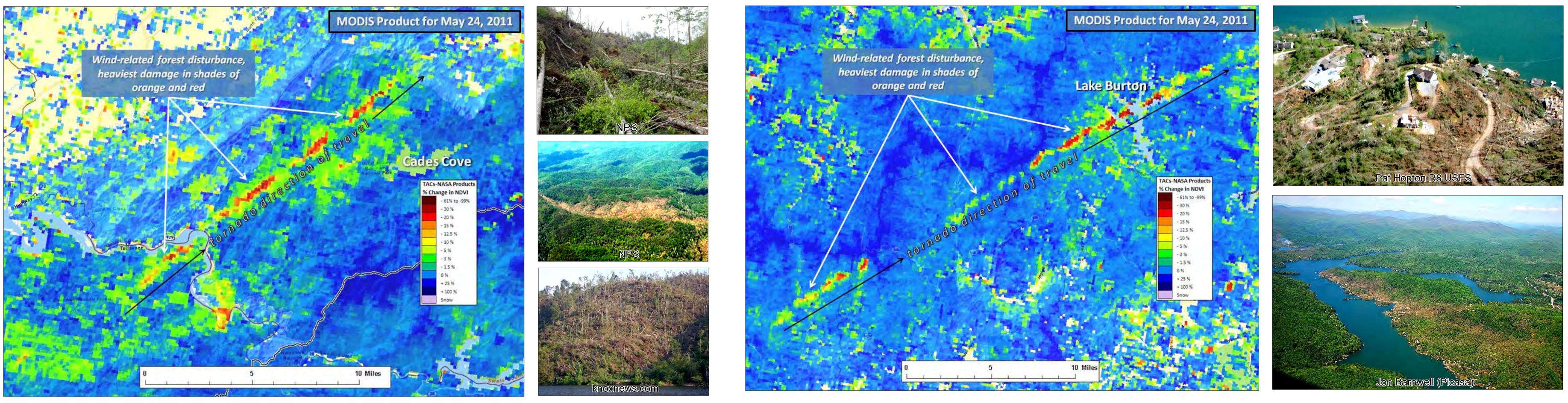


(D) Vegetative recovery from the April 24, 2010 tornado, Yazoo City, MS (EF4)

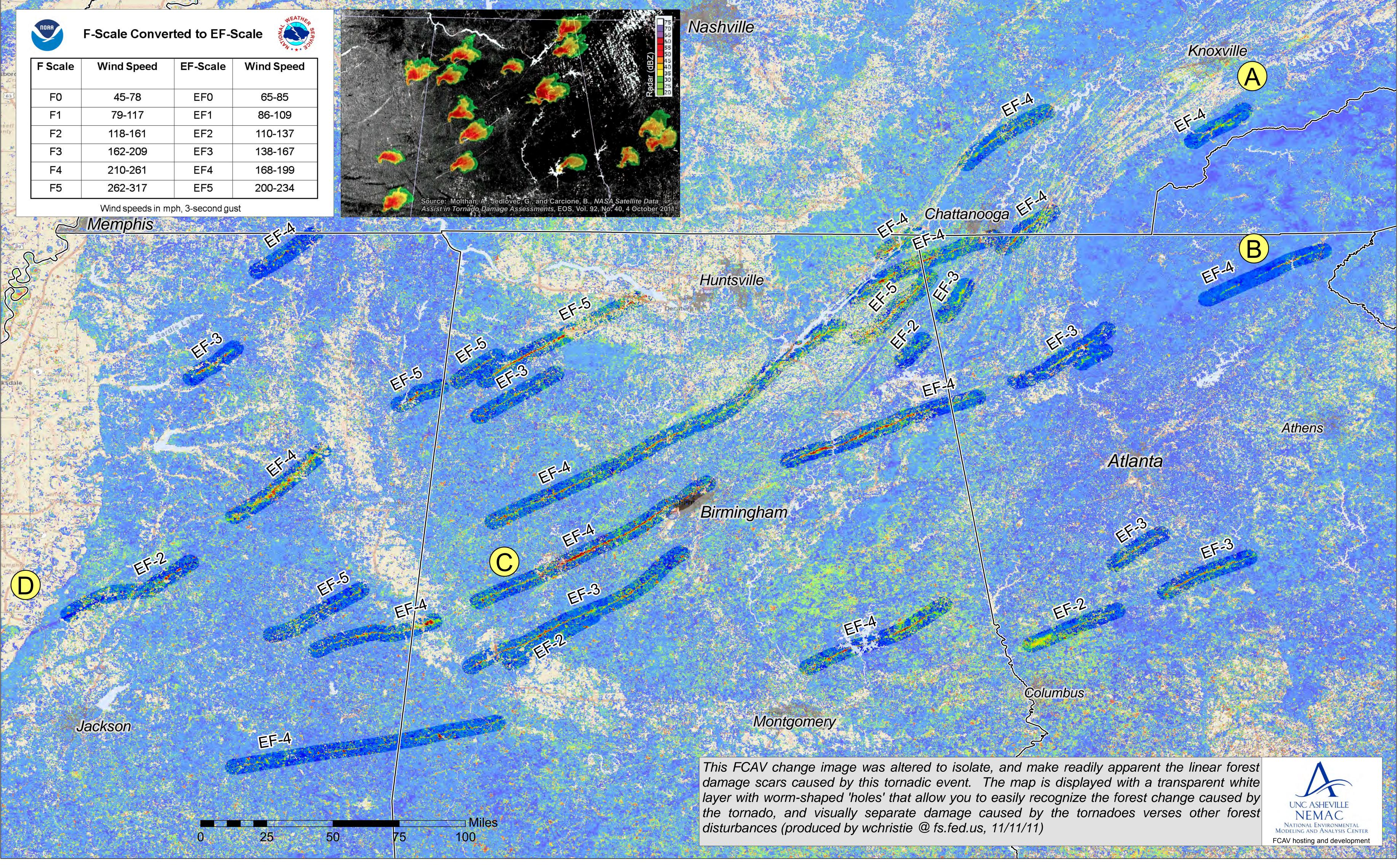


The Tornado Outbreak of April, 2011 recorded by the USDA Forest Service's "Forest Change Assessment Viewer" William Christie¹, William Hargrove¹, Steve Norman¹ and Joe Spruce² (1) USDA Forest Service, Eastern Forest Environmental Threat Assessment Center, Southern Research Station, Asheville, NC 28804 (2) NASA - John C. Stennis Space Center, Computer Sciences Corporation, Stennis Space Center, MS 39529

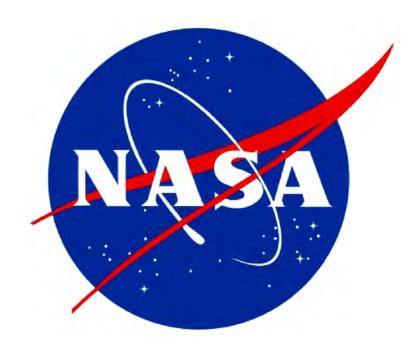
A Great Smoky Mountains National Park, TN (EF4)



F-Scale Converted to EF-Scale			
F Scale	Wind Speed	EF-Scale	Wind Speed
F0	45-78	EFO	65-85
F1	79-117	EF1	86-109
F2	118-161	EF2	110-137
F3	162-209	EF3	138-167
F4	210-261	EF4	168-199
F5	262-317	EF5	200-234



Forest Change Assessment Viewer (FCAV), percent NDVI change image, 1-year baseline, 06/01/2011



B Chattahoochee National Forest, GA (EF4)