

Supplemental Fire Metadata

Fire Information

MTBS Fire ID: NPS-SEROGRSM-STAR07A-20070410
Duplicate MTBS Fire IDs: No duplicate fire IDs
Fire Name (if known): STONY/ARBUTUS
Date of Fire: April 10, 2007
State: Tennessee
Agency: NPS
MTBS Mapping Zone: Northeast
HUC4 Catalog Unit: 06010204
Type of Assessment: Initial
Acres within Fire Perimeter: 1542.9

Required spatial adjustment for co-registration of pre-fire NBR to post-fire NBR

X-shift adjustment: 0 meters (relative to post-fire NBR)
Y-shift adjustment: +30 meters (relative to post-fire NBR)

Landsat Path and Row: 19/35

Pre-Fire Landsat Date/Scene ID: Landsat 5 TM; June 01, 2006 / 5019035000615210

Post-Fire Landsat Date/Scene ID: Landsat 5 TM; May 19, 2007 / 5019035000713910

Output Dataset Projection Albers Equal Area

Units: Meters
Datum: NAD83
Spheroid: GRS80
1st Standard Parallel: 29 30 00
2nd Standard Parallel: 45 30 00
Central Meridian: -96 00 00
Latitude of Origin: 23 00 00
False Northing: 0
False Easting: 0

Image Subset Corner Coordinates (center of pixel, projected meters)

ULX: 1082520
ULY: 1468950
LRX: 1091670
LRY: 1459590
Rows: 313
Columns: 306
Pixel size: 30 meters

Bounding Box

North Latitude: 35.62310 (35 37 23.1596646661)
South Latitude: 35.59151 (35 35 29.4286079069)
East Longitude: -83.84392 (-83 50 38.1198795061)
West Longitude: -83.87888 (-83 52 43.9536295945)

Latitude and Longitude within Fire Perimeter

Latitude: 35.608669 (35 36 31.2084)
Longitude: -83.859375 (-83 51 33.75)

Fire Perimeter Generation Method: Manual

dNBR offset value used to calculate RdNBR: 16

Burn severity thresholds

No Data Threshold: -970
Increased Greenness: -150
Low Threshold: 60
Moderate Threshold: 303

High Threshold: 575

Product List:

NPS-SEROGISM-STAR07A-20070410_pre_refl.tif

Subset of Landsat scene used for pre-fire image (Bands 1-5, 7; Unsigned 8-bit GeoTIFF)

NPS-SEROGISM-STAR07A-20070410_post_refl.tif

Subset of Landsat scene used for post-fire image (Bands 1-5, 7; Unsigned 8-bit GeoTIFF)

NPS-SEROGISM-STAR07A-20070410_d.tif

dNBR used for burn severity analysis and mapping; subset to the fire area (Signed 16-bit GeoTIFF)

NPS-SEROGISM-STAR07A-20070410_dt.tif

Thematic dNBR; Derived by thresholding dNBR subset (8-bit GeoTIFF)

NPS-SEROGISM-STAR07A-20070410_rd.tif

Relative dNBR; subset to the fire area (Signed 16-bit GeoTIFF)

NPS-SEROGISM-STAR07A-20070410.shp

Perimeter of detectable fire area derived from satellite imagery (ESRI shapefile)

NPS-SEROGISM-STAR07A-20070410_cldshdw.shp

Mask for clouds, shadow, snow or anomalies intersecting fire area (ESRI shapefile)

d1935_20060601_1935_20070519.tif

dNBR for full Landsat scene (path/row: 19/35)