

Supplemental Fire Metadata

Fire Information

MTBS Fire ID: NPS-IMROAZGCP-010-20070824
Duplicate MTBS Fire IDs: NPS-IMROAZGCP-008-2007, NPS-IMROAZGCP-100-2007, NPS-
IMROAZGCP-104-2007
Fire Name (if known): GrandView, Lone Tree Rx, Tusayan, Entrance
Date of Fire: August 24, 2007
State: Arizona
Agency: NPS
MTBS Mapping Zone: Southwest
Geographic Area: Southwest
HUC4 Catalog Unit: 15010004
Type of Assessment: Extended
Acres within Fire Perimeter: 4077.2

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: 0 meters (relative to post-fire NBR)

Landsat Path and Row: 37/35

Pre-Fire Landsat Date/Scene ID: Landsat 7 ETM+; June 28, 2002 / 7037035000217910
Post-Fire Landsat Date/Scene ID: Landsat 5 TM; June 20, 2008 / 5037035000817250

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: -1437300
ULY: 1568160
LRX: -1414770
LRY: 1551810
Rows: 546
Columns: 752
Pixel size: 30 meters

Bounding Box

North Latitude: 36.04075 (36 02 26.694436529)
South Latitude: 35.96808 (35 58 05.07233463923)
East Longitude: -111.94066 (-111 56 26.3610143484)
West Longitude: -112.13703 (-112 08 13.3199146356)

Latitude and Longitude within Fire Perimeter

Latitude: 36.00521 (36 00 18.756)
Longitude: -112.081854 (-112 04 54.6744)

Fire Perimeter Generation Method: Manual

dNBR offset value used to calculate RdNBR: 31

Burn severity thresholds
No Data Threshold: -970
Increased Greenness: -150
Low Threshold: 80
Moderate Threshold: 189
High Threshold: 350

Product List:

NPS-IMROAZGCP-010-20070824_pre_refl.tif

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

NPS-IMROAZGCP-010-20070824_post_refl.tif

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

NPS-IMROAZGCP-010-20070824_d.tif

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

NPS-IMROAZGCP-010-20070824_dt.tif

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

NPS-IMROAZGCP-010-20070824_rd.tif

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

NPS-IMROAZGCP-010-20070824.shp

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

NPS-IMROAZGCP-010-20070824_cldshdw.shp

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

d3735_20020628_3735_20080620.tif

dNBR for full Landsat scene (path/row: 37/35)

Processing Comments: exact fire dates unknown when processing these fires