Identification\_Information: Citation: Citation Information: Originator: U.S. Geological Survey Publication Date: 20070601 Title: Griffith Park Fire of Griffith Park - 2007 Geospatial\_Data\_Presentation\_Form: Raster digital data. Vector data are also available as ArcView Shape Files. **Publication Information:** Publication\_Place: Sioux Falls, South Dakota USA Publisher: U.S. Geological Survey Online Linkage: http://edc.usgs.gov Description: Abstract: The U.S. Geological Survey (USGS) has entered into a cooperative agreement with the National Park Service (NPS) to deliver satellite imagery and derivitive products centered on major fires that impact national parks and other federal lands. This data set was compiled at the request of a federal land management agency and is part of a suite of products generated for a specific fire. See the National Burn Severity Mapping web site at: http://edc2.usgs.gov/fsp/severity/fire\_main.asp Purpose: The purpose of this project is to develop a robust mapping methodology and consistent data products that allow federal land managers and fire ecologists to evaluate and compare burn severity within individual fires and between fires across various ecosystems. These products will help land managers to more effectively plan, implement and monitor fire recovery activities. Supplemental Information: Fire Name: Griffith Park (and Other) Agency: National Park Service Land Management Unit: Griffith Park Date of Fire: 05/08/2007 Type of assessment: Initial Acres within Fire Perimeter: 887 (260) Landsat Path and Row: 41/36 Pre-Fire Landsat Date/Scene ID: Landsat 5; May 4, 2004 /5041036000412510 Post-Fire Landsat Date/Scene ID: Landsat 5; May 13, 2007/5041036000713310 Output Dataset Projection: UTM UTM Zone: 11 Datum Name: NAD83 Spheroid Name: GRS80 Image subset Corner Coordinate (center of upper left pixel, projection meters) ULX: 373680 LRX: 387630 ULY: 3783090 LRY: 3771390 Image subset size: #Rows: 391

#Columns: 466
Pixel size: 30 meters
Bounding Box:
North Lat: 34 10 55 N
South Lat: 34 04 35 N
East Long: 118 13 07 W
West Long: 118 22 13 W
Latitude and Longitude within Fire Perimeter
Lat: 34 07 38 N
Long: 118 17 21 W

Fire Perimeter: Manually digitized from Landsat post fire imagery

For further information on NLAPS and Landsat TM data, please refer to the metadata documentation found on the USGS Clearinghouse website at: http://www.fgdc.gov/clearinghouse/clearinghouse.html

Product List:

grif07a\_pretm.tif May/2004 Pre-Fire Landsat data subset (bands 1-5,7 Geo-TIFF format)

grif07a\_postm.tif May/2007 Post-Fire Landsat data subset (bands 1-5,7 Geo-TIFF format)

grif07a\_dnbr.tif Differenced Normalized Burn Ratio (DNBR) subset (ArcINFO 16 bit Grid)

grif07a\_pi Fire Perimeter (shape file)

grif07a\_hist.xls DNBR pixel count within the fire perimeter (excel file)

Also see the Burn Severity Website: http://edc2.usgs.gov/fsp/severity/fire\_main.asp

Time\_Period\_of\_Content: Time\_Period\_Information: Multiple\_Dates/Times: Single\_Date/Time: Calendar\_Date: 20040504 (pre-fire image) Single\_Date/Time: Calendar\_Date: 20070508 (date fire began) Single\_Date/Time: Calendar\_Date: 20070513 (post-fire image) Currentness\_Reference: ground condition Status: Progress: Complete Maintenance\_and\_Update\_Frequency: as needed Spatial\_Domain: Bounding\_Coordinates:

West\_Bounding\_Coordinate: -118.22.13 East\_Bounding\_Coordinate: -118.13.07 North\_Bounding\_Coordinate: 34.10.55 South\_Bounding\_Coordinate: 34.04.35 Keywords: Theme: Theme\_Keyword\_Thesaurus: none Theme\_Keyword: burn mapping Theme\_Keyword: imagery Theme\_Keyword: fire Theme\_Keyword: Landsat Theme\_Keyword: National Park Service Place: Place\_Keyword\_Thesaurus: none Place\_Keyword: Griffith Park Place\_Keyword: California Access\_Constraints: FTP data sets are available to any user. Use\_Constraints: There are no restrictions on use, except for reasonable and proper acknowledgement of information sources. Point\_of\_Contact: Contact\_Information: +001 605-594-6151 or (USA) 800-252-4547 Contact\_Organization\_Primary: Contact\_Organization: U.S. Geological Survey Contact\_Position: CSR Contact\_Voice\_Telephone: +001 605-594-6151 Contact\_Address: Address\_Type: physical and mailing address Address: 47914 252nd Street **City: Sioux Falls** State\_or\_Province: SD Postal\_Code: 57198-0001 Country: USA Contact\_TDD/TTY\_Telephone: +001 605-594-6933 Contact\_Voice\_Telephone: +001 605-594-6151 Contact\_Facsimile\_Telephone: +001 605-594-6589 Contact\_Electronic\_Mail\_Address: fsedc@usgs.gov Hours\_of\_Service: 0800 - 1600 CT, M-F, -6 h GMT Contact\_Instructions: http://edc2.usgs.gov/fsp/severity/contact\_us.asp Data\_Set\_Credit: USGS and NASA Native\_Data\_Set\_Environment: Oracle, ERDAS Imagine, & ArcInfo Data\_Quality\_Information: Attribute\_Accuracy: Attribute\_Accuracy\_Report: Three on-board calibrators (two solar, one internal) provide an absolute accuracy of 5 percent, excluding band 6. Logical\_Consistency\_Report: These Landsat data are collected from a nominal altitude of 705 kilometers in a near-polar, near-circular, sun-synchronous orbit at an inclination of 98.2 degrees, imaging the same 183-km swath of Earth's surface every 16 days. The pixels representing the bands for the image are in the data set only once.

file:///D|/from\_W/fires/grif07a.txt

Completeness\_Report: Fire perimeter was automated, (seed value 425, distance 325) with manual edits.

Positional\_Accuracy:
Horizontal\_Positional\_Accuracy:
Horizontal\_Positional\_Accuracy\_Report:
Energy reflected from Earth's surface passes through a whisk-broom scanning system and all-reflective optics before being collected by the solid-state detectors at the focal plane.
Lineage:
Process\_Step:
Process\_Description:
These data products are derived from Landsat Thematic Mapper data.
A pre-fire scene and a post-fire scene are analyzed to create a Differenced Normalized Burn Ratio (DNBR) image. The DNBR image portrays

The Landsat images are terrain corrected and geometrically rectified to an Albers Conical Equal Area map projection using the National Landsat Archive Production System (NLAPS). The images are further processed to convert bands 1-5 and 7 to at-satellite-reflectance. The Normalized Burn Ratio (NBR) is computed for each date of imagery using the following formula:

(Band 4 - Band 7) / (Band 4 + Band 7) = NBR

the variations of burn severity within the fire.

The differenced NBR is computed by subtracting the post-fire NBR from the pre-fire NBR: PreNBR - PostNBR = DNBR

Higher DNBR values are correlated with more severe burns. The DNBR image is evaluated to determine the threshold value between burned and unburned areas. The perimeter of the fire is delineated using the DNBR image. The DNBR image, the pre-fire and post-fire TM images, and a fire perimeter vector file are provided in digital format in the map projection used by the National Park Service. Source\_Used\_Citation\_Abbreviation: TM Process Date: 200706 Source\_Produced\_Citation\_Abbreviation: DNBR Cloud\_Cover: 10 Distribution Information: Distributor: Contact\_Information: Contact\_Organization\_Primary: Contact\_Organization: U.S. Geological Survey **Contact Position: Principal Scientist** Land Cover Applications Contact\_Address: Address\_Type: mailing and physical address Address: 47914 252nd Street **USGS EROS** City: Sioux Falls

file:///D|/from\_W/fires/grif07a.txt

State\_or\_Province: SD Postal Code: 57198-0001 Country: USA Contact\_Voice\_Telephone: +001 605-594-6151 Contact\_TDD/TTY\_Telephone: +001 605 594-6933 Contact\_Facsimile\_Telephone: +001 605 594-6589 Contact\_Electronic\_Mail\_Address: fsedc@usgs.gov Hours\_of\_Service: 0800 - 1600 CT, M-F, -6 h GMT Contact\_Instructions: http://edc2.usgs.gov/fsp/severity/contact\_us.asp Distribution\_Liability: No warranty expressed or implied is made by the USGS regarding the use of the data, nor does the act of distribution constitute any such warranty. Standard\_Order\_Process: Digital\_Form: Digital\_Transfer\_Information: Format\_Name: Geo-TIFF Format\_Version\_Number: 1 Digital\_Transfer\_Option: Online Option: Computer\_Contact\_Information: Network Address: Network\_Resource\_Name: http://edc2.usgs.gov/fsp/severity/download\_data.asp Digital\_Form: Digital\_Transfer\_Information: Format Name: DNBR ArcInfo GRID Format\_Version\_Number: 1 Digital\_Transfer\_Option: Online Option: Computer\_Contact\_Information: Network\_Address: Network Resource Name: http://edc2.usgs.gov/fsp/severity/download data.asp Digital\_Form: Digital\_Transfer\_Information: Format\_Name: shape file Format\_Version\_Number: 1 Digital\_Transfer\_Option: Online\_Option: Computer\_Contact\_Information: Network\_Address: Network\_Resource\_Name: http://edc2.usgs.gov/fsp/severity/download\_data.asp Fees: No charge Ordering\_Instructions: http://edc2.usgs.gov/fsp/severity/help.asp#ordering Turnaround: same day Metadata\_Reference\_Information: Metadata\_Date: 20070611 Metadata\_Contact: Contact\_Information: Contact\_Organization\_Primary: Contact Organization: **USGS EROS** 

Science & Applications Branch Contact\_Position: **Principal Scientist** Land Cover Applications Contact\_Address: Address\_Type: mailing and physical address Address: 47914 252nd Street **USGS EROS City: Sioux Falls** State\_or\_Province: SD Postal\_Code: 57198-0001 Country: USA Contact\_Voice\_Telephone: +001 605-594-6151 Contact\_TDD/TTY\_Telephone: +001 605-594-6933 Contact\_Facsimile\_Telephone: +001 605-594-6589 Contact\_Electronic\_Mail\_Address: fsedc@usgs.gov Hours\_of\_Service: 0800 - 1600 CT, M-F, -6 h GMT Contact\_Instructions: http://edc2.usgs.gov/fsp/severity/contact\_us.asp Metadata Standard Name: Content Standard for Digital Geospatial Metadata Metadata\_Standard\_Version: FGDC-STD-001-1998 Metadata\_Access\_Constraints: none Metadata\_Use\_Constraints: none