

Data Set Number 202: Pan-sharpened true color Landsat 7 image for Path192 Row 051 taken on 09 November 1999

Identification_Information:

Citation:

Citation_Information:

Originator: U.S. Geological Survey

Publication_Date: 1999

Title: Pan-sharpened true color Landsat 7 image for Path192 Row 051 taken on 09 November 1999

Geospatial_Data_Presentation_Form: remote-sensing image

Online_Linkage: \\ENGE-FROUFROU\LACIE

(F)\metadata_fakara\landsat\1999\p192r051_7p19991109_z31_tc_psA.tif

Description:

Abstract: This data set is a pan-sharpened true color image of Landsat 7 ETM-EarthSat Orthorectified scene taken over the Niamey-Fakara region

Purpose: Enhance multispectral resolution using panchromatic scene (15 meter resolution)

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19991109

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: 1.938093

East_Bounding_Coordinate: 4.229655

North_Bounding_Coordinate: 13.992028

South_Bounding_Coordinate: 12.038444

Keywords:

Theme:

Theme_Keyword_Thesaurus: GCMD

Theme_Keyword: EARTH SCIENCE > RADIANCE OR IMAGERY > Infrared Wavelengths > Infrared Imagery

Theme_Keyword: EARTH SCIENCE > RADIANCE OR IMAGERY > Visible Wavelengths > Visible Imagery

Theme_Keyword: EARTH SCIENCE > LAND SURFACE > Surface Radiative Properties > Reflectance

Theme_Keyword: EARTH SCIENCE > LAND SURFACE > Land Use/Land Cover > Land Classes

Theme_Keyword: EARTH SCIENCE > LAND SURFACE > Landscape > Landscape Pattern

Theme_Keyword: Pan-sharpen

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: Niamey

Place_Keyword: Fakara

Place_Keyword: Niger

Place_Keyword: Sahel

Place_Keyword: West Africa

Temporal:

Temporal_Keyword_Thesaurus: none

Temporal_Keyword: 1999
Access_Constraints: None
Use_Constraints: Cite: NASA Landsat Program, 2003, Landsat ETM+ scene L71008058_05820031026, SLC-Off, USGS, Sioux Falls, 10/26/2003 + pan-sharpening by B.Gerard
Point_of_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Catholic University of Louvain
Contact_Person: BRUNO GERARD
Contact_Position: Visitor Scientist
Contact_Address:
Address_Type: mailing and physical
Address: Faculty of Biological, Agronomic and Environmental Engineering
Catholic university of Louvain
Croix du Sud, 2 bte 16
B-1348 Louvain-la-Neuve (Belgium)
Fax 32 (0) 10 47 88 98

City: Louvain-la-Neuve
Country: Belgique
Contact_Voice_Telephone: 32 (0) 10 47 92 57
Contact_Electronic_Mail_Address: b.Gerard@cgiar.org
Contact_Electronic_Mail_Address: gerard@enge.ucl.ac.be
Data_Set_Credit: The Landsat Program, as defined by Congress in 1992 and amended by Presidential Decision Directive/NSTC-3 in May 1994, is managed cooperatively by the National Aeronautics and Space Administration (NASA), and the USGS. Responsibility for construction of the spacecraft and instrument lies with NASA. The Landsat Program is part of NASA's Earth Observing System global change initiative administered by NASA's Earth Science Enterprise. Data processing, archiving, and distribution are performed by the USGS. The primary ground station, the data handling facility and archive are located at the USGS EROS Data Center in Sioux Falls, SD. NASA will manage flight operations from the control center at the Goddard Space Flight Center until October 1, 2000, when responsibility for flight operations transfers to the USGS. The ground system will be able to distribute raw ETM+ data within 24 hours of its reception at the EROS Data Center. These functions are executed in coordination with the EDC Distributed Active Archive Center (EDC DAAC) of NASA's Earth Observing System Data and Information System.
Security_Information:
Security_Classification_System: none
Security_Classification: Unclassified
Security_Handling_Description: none
Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.2.0.1324
Cross_Reference:
Citation_Information:
Originator: U.S. Geological Survey
Title: Landsat Thematic Mapper Imagery (Landsat TM)
Online_Linkage: <http://earthexplorer.cr.usgs.gov/>
Data_Quality_Information:
Lineage:
Process_Step:
Process_Description:

Pan-sharpening using HSV algorithm and nearest-neighbour resampling

The HSV sharpening transforms an RGB image to HSV color space, replace the value band with the high-resolution image, automatically resample the hue and saturation bands to the high-resolution pixel size using a nearest neighbor, bilinear, or cubic convolution technique, and finally transform the image back to RGB color space. The output RGB images have the pixel size of the input high-resolution data.

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Bruno Gerard

Contact_Organization: ICRISAT

Contact_Address:

Address_Type: mailing and physical address

Address: BP: 12404

City: Niamey

Country: Niger

Contact_Voice_Telephone: +22720722626

Contact_Voice_Telephone: +22720722529

Contact_Facsimile_Telephone: +22720734329

Contact_Electronic_Mail_Address: b.gerard@cgiar.org

Contact_Electronic_Mail_Address: icrisatsc@cgiar.org

Contact_Instructions: <http://www.icrisat.org/>

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster

Raster_Object_Information:

Raster_Object_Type: Pixel

Row_Count: 15140

Column_Count: 17368

Vertical_Count: 1

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 31

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: 3.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: row and column

Coordinate_Representation:

Abscissa_Resolution: 14.250000

Ordinate_Resolution: 14.250000

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: D_WGS_1984

Ellipsoid_Name: WGS_1984

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257224

Distribution_Information:

Distributor:

Contact_Information:
Contact_Organization_Primary:
Contact_Organization: U.S. Geological Survey
Contact_Address:
Address_Type: mailing and physical address
Address: Service, EROS, 800-252-4547
Contact_Electronic_Mail_Address: custserv@usgs.gov
Contact_Instructions:
Resource_Description: Pan-sharpened true color Landsat 7 image for
Path192 Row 051 taken on 09 November 1999
Distribution_Liability:
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.000
Metadata_Reference_Information:
Metadata_Date: 20070206
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: ICRISAT
Contact_Person: AMADOU M.Laouali
Contact_Address:
Address_Type: mailing and physical address
Address: BP: 12404
City: Niamey
State_or_Province:
Postal_Code:
Country: Niger
Contact_Voice_Telephone: +22720722626
Contact_Facsimile_Telephone: +22720734329
Contact_Electronic_Mail_Address: icrisatsc@cgiar.org
Contact_Instructions: <http://www.icrisat.org>
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile