

Data Set Number 185: Land use in the Fakara in the year 1965

Identification_Information:

Citation:

Citation_Information:

Originator: ILRI

Publication_Date: Unpublished Material

Title: Land use in the Fakara in the year 1965

Geospatial_Data_Presentation_Form: vector digital data

Description:

Abstract: This GIS layer contains polygons for cropped area in 1965 and is derived from unclassified corona images georeferenced with a Spot 5 orthorectified image. Since 2000, land use has been updated and used by ICRISAT under a range of special research project (DGCD Decision Support, DMP, Agrhymet Climate Change)

Purpose: Production of continuous coverage from discontinuous aerial coverage to produce clear readable maps of different spatial scales necessary for unit-referenced data collection to act as a base map for multitemporal overlaying of historical (1950, 1965, 1975) and recent (1994, 1995, 1996, 2002, 2004) land use cover

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1965

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: 2.508749

East_Bounding_Coordinate: 2.915250

North_Bounding_Coordinate: 13.716895

South_Bounding_Coordinate: 13.335738

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: Land use

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: Fakara

Place_Keyword: Niger

Place_Keyword: West Africa

Place_Keyword: Sahel

Temporal:

Temporal_Keyword_Thesaurus: none

Temporal_Keyword: 1965

Access_Constraints: Request to be made to ILRI

Use_Constraints: Cite when used

Data_Set_Credit: Bruno Gerard and Djaby Bakary

Security_Information:

Security_Classification: Restricted

Security_Handling_Description: Can only be used with specific authorization of ILRI

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:

Geospatial_Data_Presentation_Form: document

Data_Quality_Information:

Lineage:

Process_Step:

Process_Description:

- 1) Corona images in digital format (Tif) were received from Agrhymet with approximate georeferencing
- 2) Georeferencing was improved by using GCP of an orthorectified spot 5 pansharpened image (RMS < 5m) in ArcGIS
- 3) Segmentation and object-based classification in e-cognition to identify cropped area
- 4) Export of object from e-cognition in shp file format

Process_Date: 2005

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Bruno Gerard

Contact_Address:

Address: BP: 12404

City: Niamey

Country: Niger

Contact_Voice_Telephone: +22720722626

Contact_Facsimile_Telephone: +22720734329

Contact_Electronic_Mail_Address: b.gerard@cgiar.org

Contact_Electronic_Mail_Address: icrisatsc@cgiar.org

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 15736

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: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000000

Ordinate_Resolution: 0.000000

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
Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lu1965
Entity_Type_Definition: Land use in 1950
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that
are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: ID
Attribute_Definition: Identification code
Attribute_Definition_Source: Bruno Gerard
Attribute:
Attribute_Label: Class
Attribute_Definition: Classification
Attribute_Definition_Source: Bruno Gerard
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: cropped
Enumerated_Domain_Value_Definition: Field cropped in 1965
Enumerated_Domain_Value_Definition_Source: Bruno Gerard
Attribute:
Attribute_Label: Color
Attribute_Definition: Class Color
Attribute_Definition_Source: Bruno Gerard
Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: ILRI - ICRISAT
Contact_Address:
Address_Type: mailing and physical address
Address: BP: 12404
City: Niamey
Country: Niger
Contact_Voice_Telephone: +22720722626
Contact_Facsimile_Telephone: +22720734329
Contact_Electronic_Mail_Address: icrisatsc@cgiar.org
Resource_Description: Land use in the Fakara in the year 1965
Distribution_Liability:
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 1.251
Metadata_Reference_Information:

Metadata_Date: 20070130
Metadata_Contact:
 Contact_Information:
 Contact_Organization_Primary:
 Contact_Organization: ICRISAT
 Contact_Person: AMADOU M.Laouali
 Contact_Address:
 Address_Type: mailing and physical address
 City: Niamey
 Country: Niger
 Contact_Voice_Telephone: +22720722626
 Contact_Facsimile_Telephone: +22720734329
 Contact_Electronic_Mail_Address: a.m.laouali@cgiar.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