

# Catalogue of fundamental geo-spatial datasets for Africa: Country report for Equatorial Guinea



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Research Council

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**MARCH 2007**

## 1. Background

A continental-wide study was conducted in 2006 to catalogue the existence of fundamental geo-spatial datasets in Africa. This study was contracted to a consortium consisting of the HSRC and EIS-AFRICA as lead organisations and numerous sub-regional partners. It was conducted under the auspices of the UNECA.

The study used a questionnaire to obtain information about the 30 fundamental geo-spatial datasets. Although only a few questionnaires were received from organisations within the country, a number of international agencies also had data for Equatorial Guinea. This report reflects the findings collected from all the questionnaires for the country.

## 2. Data availability

**Table 1: Availability of fundamental geo-spatial datasets**

Dataset	Have it?	Source
Geodetic control points	Yes	Instituto Nacional De Desarrollo Forestal
Height datum	No	
Geoid model	No	
Aerial photography	Yes	Instituto Nacional De Desarrollo Forestal
Satellite imagery	Yes	Ministere De La Peche Et De L'environnement/ Ministerio De Agricultura Y Bosque/ Instituto Nacional De Desarrollo Forestal/ Map Maker Trust/ UNECA
DEM	Yes	UNECA
Spot heights	Yes	Instituto Nacional De Desarrollo Forestal
Bathymetry	Yes	GEBCO
Coastline	Yes	Instituto Nacional De Desarrollo Forestal
Water bodies	Yes	Instituto Nacional De Desarrollo Forestal/ Map Maker Trust/ UNECA
Government boundaries	Yes	Ministere De La Peche Et De L'environnement/ Instituto Nacional De Desarrollo Forestal
Populated places	Yes	Instituto Nacional De Desarrollo Forestal/ UNECA
EA	No	
Place names	Yes	Instituto Nacional De Desarrollo Forestal
Feature names	Yes	Instituto Nacional De Desarrollo Forestal/ UNECA
Land parcels	Yes	Ministerio De Agricultura Y Bosque/ Instituto Nacional De Desarrollo Forestal
Land tenure	No	

Dataset	Have it?	Source
Street address	No	
Postal code zones	Yes	Ministerio De Agricultura Y Bosque
Land use planning zones	Yes	Instituto Nacional De Desarrollo Forestal
Roads	Yes	Ministere De La Peche Et De L'environnement/ Ministerio De Agricultura Y Bosque/ Instituto Nacional De Desarrollo Forestal/ Map Maker Trust/ UNECA
Road centrelines	Yes	Ministere De La Peche Et De L'environnement
Railways	Yes	Map Maker Trust/ UNECA
Airports	Yes	Ministere De La Peche Et De L'environnement/ Ministerio De Agricultura Y Bosque/ Instituto Nacional De Desarrollo Forestal/ UNECA
Bridges	Yes	Ministere De La Peche Et De L'environnement/ Instituto Nacional De Desarrollo Forestal
Power	Yes	Ministere De La Peche Et De L'environnement/ Ministerio De Agricultura Y Bosque/ Instituto Nacional De Desarrollo Forestal
Telecommunication	Yes	Ministere De La Peche Et De L'environnement/ Ministerio De Agricultura Y Bosque
Land cover	Yes	Ministere De La Peche Et De L'environnement/ Instituto Nacional De Desarrollo Forestal
Soils	Yes	Instituto Nacional De Desarrollo Forestal
Geology	Yes	Instituto Nacional De Desarrollo Forestal

Equatorial Guinea has 25 out of the 30 fundamental geo-spatial datasets. It therefore seems that the country has access to most of the geo-spatial datasets. The quality of these datasets will be determined by their data characteristics.

## 2.1 Data characteristics

Data characteristics were incomplete for some of the fundamental geo-spatial datasets. It therefore remains difficult to determine whether the geo-spatial datasets available are indeed of good quality. The table indicates for example: satellite imagery is available at the scale of 5 - 20m, it is 100% complete and available in a map, GIS or other digital format. Empty cells in the table indicate that no response was received.

**Table 2: Dataset metadata**

Dataset	Scale at which available (000/ resolution m)	Completeness (%)	Format	Accessibility
Geodetic control points	62.5 – 100	<25	Map/ GIS/ Other	Unrestricted/ Payment
Height datum				
Geoid model				

<b>Dataset</b>	<b>Scale at which available (000/ resolution m)</b>	<b>Completeness (%)</b>	<b>Format</b>	<b>Accessibility</b>
Aerial photography	20-50	<25	Table	Restricted
Satellite imagery	5 - 20/ >1000	100	Map/ GIS/ Other	Unrestricted/ Authorisation/ Restricted/ Free
DEM	125-1000	100	GIS	Unrestricted/ Free
Spot heights	500-1000	<25	Map	Authorisation/ Payment
Bathymetry	All scales	100	Db/ GIS/ Other	Unrestricted/ Authorisation/ Free/ Payment
Coastline	62.5-100/ 125-250/ 500-1000	100	Map/ GIS	Authorisation/ Payment
Water bodies	62.5-100/ 125-250/ 500-1000	100	Map/ GIS	Unrestricted/ Authorisation/ Free/ Payment
Government boundaries	10-50/ 62.5-100/ 125-250/ 500-1000	100	Report/ Map/ GIS/ Other	Unrestricted/ Authorisation/ Free/ Payment
Populated places	12-50/ 62.5-100/ 125-250/ 500-1000	100/ 76-99/ 76-99/ 26-50	Map/ GIS	Unrestricted/ Authorisation/ Free/ Payment
EA				
Place names	12-50 / 62.5-100/ 125-250/ 500-1000	100/ 76-99/ 76-99/ 26-50 or 100	Map/ Dbase/ GIS	Unrestricted/ Authorisation/ Free/ Payment
Feature names	>10/ 62.5-100/ 125-250/ 500-1000	100/ 76-99/ 76-99/ 100 or 51-75	Map/ Spread sheet/ Dbase/ GIS	Unrestricted/ Authorisation/ Free/ Payment
Land parcels	>10/ 10-50	< 25	Map/ GIS	Authorisation/ Payment
Land tenure				
Street address				
Postal code zones			Map	Authorisation
Land use planning zones	125-250	100	Map/ Dbase	Authorisation/ Payment
Roads	62.5-100/ 125-250/ 500-1000	76-99/ 100 or 76-99/ 51-75	Map/ GIS	Unrestricted/ Authorisation/ Free/ Payment
Road centrelines	>10		Map	Unrestricted/ Free
Railways	125-250	100	GIS	Unrestricted/ Free
Airports	10-50/ 125-250	<25/ 100	Map/ GIS	Unrestricted/ Authorisation/ Restricted/ Free
Bridges	10-50	<25	Map/ GIS	Authorisation/ Free/ Payment
Power	10-50/ 125-250	/ <25	Report/ Map/ GIS	Authorisation/ Free/ Payment

<b>Dataset</b>	<b>Scale at which available (000/ resolution m)</b>	<b>Completeness (%)</b>	<b>Format</b>	<b>Accessibility</b>
Telecommunication	10-50		Report/ Map/ GIS	Authorisation/ Free/ Payment
Land cover	10-50/ 125-250/ 500-1000	/ 100/ 100	Map/ GIS	Unrestricted/ Authorisation/ Restricted/ Free
Soils	125-250	100	Map/ GIS	Authorisation/ Payment
Geology	125-250	100	Map	Restricted

Most datasets are available at a range of scales – from detailed to general. It is therefore useful to reconstruct secondary data based on it. The data completeness is 100% for many datasets. For several other datasets the completeness is less or equal to 25%. This indicates that even though data might be at a detailed scale, it is incomplete. Most data is available in a map format and with access ranging between unrestricted/ authorisation/ free and payment.

### **3. Conclusion**

Although Equatorial Guinea has access to most of the fundamental geo-spatial datasets many of the datasets are spatially incomplete and available in a map format. It would therefore seem that the current geo-spatial data is not of a suitable quality. Based on this it cannot be concluded that the existing geo-spatial data is of a useful nature.