

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



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## 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. This report reflects the findings collected from that questionnaire for Djibouti.

## 2. Data availability

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

<b>Dataset</b>	<b>Have it?</b>	<b>Source</b>
Geodetic control points	Yes	CERD /Direction de l'equipement
Height datum	Yes	CERD / Direction de l'equipement
Geoid model	No	
Aerial photography	Yes	CERD / Direction de l'equipement
Satellite imagery	Yes	CERD / Map Maker Trust/ UNECA
DEM	Yes	CERD / UNECA
Spot heights	Yes	CERD
Bathymetry	Yes	CERD / GEBCO
Coastline	Yes	CERD
Water bodies	Yes	CERD /Map Maker Trust/ UNECA
Government boundaries	Yes	Map Maker Trust/ UNECA
Populated places	Yes	UNECA
EA	No	
Place names	Yes	CERD / Map Maker Trust/ UNECA
Feature names	Yes	CERD / UNECA
Land parcels	Yes	Direction Recettes et des Domaines/ Direction de l'urbanisme et de l'habitat
Land tenure	No	
Street address	No	
Postal code zones	No	

Dataset	Have it?	Source
Land use planning zones	Yes	Direction de l'urbanisme et de l'habitat
Roads	Yes	Direction de l'equipement /Map Maker Trust/ UNECA
Road centrelines	Yes	Direction de l'equipement
Railways	Yes	Map Maker Trust/ UNECA
Airports	Yes	CERD / Direction de l'equipement / UNECA
Bridges	No	
Power	No	
Telecommunication	No	
Land cover	No	
Soils	Yes	CERD
Geology	Yes	CERD

Djibouti has access to 21 of the 30 fundamental geo-spatial datasets and the country therefore has access to a fair amount of the fundamental geo-spatial datasets.

## 2.1 Data characteristics

Data characteristics indicated that many datasets are not fully complete or at a general scale. 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 all scales, it is either fully complete or less or equal to 25% and available in a GIS 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	.>10/ 12-50/ 62.5-100	<25/ 51-75/ 100	Report/ Table/ Map/ GIS	Authorisation/ Free
Height datum	>10/ 12-50	<25/ 51-75	Report/ Table/ Map/ GIS	Authorisation/ Free
Geoid model				
Aerial photography	>10	<25	Map/ GIS	Authorisation/ Free
Satellite imagery	All scales	<25/ <25/ 100/ 100	GIS	Unrestricted/ Authorisation/ Free

<b>Dataset</b>	<b>Scale at which available (000/ resolution m)</b>	<b>Completeness (%)</b>	<b>Format</b>	<b>Accessibility</b>
DEM	50-125	51-75 /100	Map/ GIS	Unrestricted/ Authorisation/ Free
Spot heights	12-50	51-75	Report/ Table/ Map/ GIS	Authorisation/ Free
Bathymetry	All scales	100	Db/ GIS/ Other	Unrestricted/ Authorisation/ Free/ Payment
Coastline	12-50/ 62.5 -100	51-75/ 100	Map/ GIS	Authorisation/ Free
Water bodies	12-50/ 62.5-100/ 500-1000	51-75/ 100/ 100	Map/ GIS	Unrestricted/ Authorisation/ Free
Government boundaries	62.5-100/ 500-1000	100	Map/ GIS/ Other	Unrestricted/ Free
Populated places	12-50/ 62.5-100	100	Map/ GIS	Unrestricted/ Free
EA				
Place names	12-50/ 62.5-100/ 125-500	51-75/ 100	Map/ GIS	Unrestricted/ Authorisation/ Free
Feature names	>10/ 62.5-100	51-75/ 100	Map/ Spread sheet/ GIS	Unrestricted/ Authorisation/ Free
Land parcels	>10	<25	Report/ Map/ GIS/ Other	Authorisation/ Free
Land tenure				
Street address				
Postal code zones				
Land use planning zones	10-50	<25	Report/ Map	Authorisation/ Free
Roads	10-50/ 62.6-100/ 500-1000	51-75/ 100/ 100	Report/ Table/ Map/ GIS	Unrestricted/ Authorisation/ Free
Road centrelines	>10	51-75	Report/ Table/ Map	Authorisation/ Free
Railways	62.6-100/ 500-1000	100	Map/ GIS	Unrestricted/ Free
Airports	500-1000	100	Map/ GIS	Unrestricted/ Authorisation/ Free
Bridges				
Power				
Telecommunication				
Land cover				

<b>Dataset</b>	<b>Scale at which available (000/ resolution m)</b>	<b>Completeness (%)</b>	<b>Format</b>	<b>Accessibility</b>
Soils	125-250	<25	Map	Authorisation/ Free
Geology	62.5-100	51-75	Table/ Map	Authorisation/ Free

The scale availability of datasets varies since most datasets are available at a detailed or general scale. Many datasets are less than 25% complete. Most data is available in a number of formats and with free access. One data set requires payment.

### **3. Conclusion**

Despite the fact that it seems that Djibouti has access to many of the fundamental geo-spatial datasets, the lack of data and data characteristics complicate the final decision on the quality of the data. Based on this it cannot be concluded that the existing geo-spatial data is useful for eliminating gaps in geo-information on the continent.