

Catalogue of fundamental geo-spatial datasets for Africa: Country report for Cape Verde



HSRC
Human Sciences
Research Council

PROJECT MANAGERS:

HUMAN SCIENCES RESEARCH COUNCIL (HSRC)

EIS-AFRICA

REGIONAL AND NATIONAL PARTNERS:

CENTRE FOR THE ENVIRONMENT AND DEVELOPMENT OF THE ARAB REGION AND EUROPE (CEDARE)

CENTRE DE SUIVI ECOLOGIQUE (CSE)

OBSERVATOIRE SATELLITAL DES FORETS D AFRIQUE CENTRALE (OSFAC)

REGIONAL CENTRE FOR THE MAPPING OF RESOURCES FOR DEVELOPMENT (RCMRD)

REGIONAL CENTRE FOR TRAINING IN AEROSPACE SURVEYS (RECTAS)

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. This report reflects the findings collected from that questionnaire for Cape Verde.

2. Data availability

Table 1: Availability of fundamental geo-spatial datasets

Dataset	Have it?	Source
Geodetic control points	No	
Height datum	Yes	Direcção Geral do Ordenamento do Território e Habitat/ Associação Nacional dos municípios de Cabo Verde
Geoid model	No	
Aerial photography	Yes	Direcção Geral do Ordenamento do Território e Habitat/ Associação Nacional dos municípios de Cabo Verde
Satellite imagery	Yes	Instituto Nacional de Meteorologia e Geofísica / Map Maker Trust/ UNECA
DEM	Yes	Direcção Geral do Ordenamento do Território e Habitat/ Associação Nacional dos municípios de Cabo Verde/ UNECA
Spot heights	No	
Bathymetry	Yes	Instituto Nacional de Meteorologia e Geofísica
Coastline	Yes	Instituto Nacional de Gestão dos Recursos Hídricos
Water bodies	Yes	Instituto Nacional de Gestão dos Recursos Hídricos/ Map Maker Trust/ UNECA
Government boundaries	Yes	Instituto Nacional de Gestão dos Recursos Hídricos/ Map Maker Trust/ UNECA
Populated places	Yes	UNECA
EA	No	
Place names	Yes	Instituto Nacional de Gestão dos Recursos Hídricos/ Map Maker Trust/ UNECA
Feature names	Yes	UNECA
Land parcels	No	

Dataset	Have it?	Source
Land tenure	No	
Street address	No	
Postal code zones	No	
Land use planning zones	No	
Roads	Yes	Instituto Nacional de Gestão dos Recursos Hídricos/ Map Maker Trust/ UNECA
Road centrelines	No	
Railways	Yes	Map Maker Trust/ UNECA
Airports	Yes	UNECA
Bridges	No	
Power	No	
Telecommunication	No	
Land cover	Yes	Instituto Nacional de Gestão dos Recursos Hídricos
Soils	No	
Geology	No	

Cape Verde has access to 15 of the 30 fundamental geo-spatial datasets and the country therefore has an average access to the datasets.

2.1 Data characteristics

Data characteristics were very patchy and it is therefore 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 20 – 80m, it is 100% complete 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				
Height datum				
Geoid model				
Aerial photography				

Dataset	Scale at which available (000/ resolution m	Completeness (%)	Format	Accessibility
Satellite imagery	20-80	100	GIS	Unrestricted/ Authorisation/ Free
DEM	125-1000	100	GIS	Unrestricted/ Free
Spot heights				
Bathymetry	All scales	100	Db/ GIS/ Other	Unrestricted/ Authorisation/ Free/ Payment
Coastline			GIS	Unrestricted/ Free
Water bodies		100		Unrestricted/ Free
Government boundaries	10-50	100	GIS	Unrestricted/ Free
Populated places			GIS	Unrestricted/ Free
EA				
Place names	12-50	100	GIS	Unrestricted/ Free
Feature names	>10/ 500-1000	100	Spread sheet/ GIS	Unrestricted/ Free
Land parcels				
Land tenure				
Street address				
Postal code zones				
Land use planning zones				
Roads	125-250	100	GIS	Unrestricted/ Free
Road centrelines				
Railways	125-250	100	GIS	Unrestricted/ Free
Airports	125-250	100	GIS	Unrestricted/ Free
Bridges				
Power				
Telecommunication				
Land cover				
Soils				
Geology				

The scale availability of datasets varies. Satellite imagery, government boundaries, place names and feature names are available at a detail scale. Most data are available at a medium scale. The

data completeness is 100%, while most data is available in a GIS format and with unrestricted access. Bathymetry data requires payment.

3. Conclusion

Cape Verde has access to half of the fundamental geo-spatial datasets, but it is not enough. The lack of data characteristics complicates the final decision on the quality of the data. Based on this it cannot be concluded that the existing geo-spatial data is useful.