

Mauritius Annex II. Metadata records

From version Mauritius MEDA March 2011 v3

2. BIOPHYSICAL ENVIRONMENT

2.1 Description of the coast and distinctive features

The Ministry of Housing and Lands – Cartography Section (responsible for mapping datasets)

Data type	Theme	Format	Metadata record*	Description
Spatial data	Coastline	Shapefile		Digitized from up-to-date datasets.
Spatial data	Continental shelf	Shapefile		Delineation of the continental shelf limits beyond the 200 nautical mile limits
Spatial data	Deltas	Shapefile		
Aerial photographs		Raster in ECW and TIFF	Very high resolution (15cm) orthorectified vertical aerial imagery acquired in January 2009 by Infoterra Ltd, LAVIMS contractor using the Vexel (Ultra CAM) digital camera. The whole island is covered and the aerial imagery is available in at the Ministry of Housing and Lands	Colour digital imagery acquired for the Land Administration and Valuation Information System (LAVIMS) project commissioned by the Government of Mauritius in view of implementing a Cadastre for private lands and state lands parcels excluding agricultural lands.
Spatial data	Bathymetry data	Hard copy	4 Navigational charts for Agalega Islands, Mathurin Harbour and approaches, Port Louis Harbour and Approaches to Port Louis Harbour have been prepared in 2009 by the Indian National Hydrographic Office (INHO), India, for the Government of Mauritius. The hydrographic data were collected by the previous visits of the Indian Naval Ships (2006-2009). These charts are on sale at the INHO and at the Ministry of Housing and Lands	Navigational charts for Agalega Islands, Mathurin Harbour and approaches, Port Louis Harbour and Approaches to Port Louis Harbour are available at the Ministry of Housing and Lands
Spatial data	Coastal topography data	CAD vector shapefile and ECW raster	Large scale vector maps depicting the coastal topography data, prepared by the Ministry of Housing and Lands during the past years, are on sale as well as raster datasets.	Large scale topographic maps and aerial imagery showing detailed features of the coast.
Nautical charts of the coast		hardcopy	Charts for part of the coast (near shore) published in decades back by the British Admiralty are available	Nautical charts of the lagoon around the island of Mauritius

			in hardcopy at the Ministry.	
--	--	--	------------------------------	--

2.2 General description of the climate

Data type: Climatological variables judged to be of relevance to the ASCLME project.

Details on the observations (such as methods, instruments, maintenance, and frequency/timing of observations) can be found in World Meteorological Organization (WMO 2003, WMO 2008a).

The requirements for elements to be observed according to the type of station and observing network are detailed in WMO (2003), together with the observational requirements of typical climatological, surface synoptic network, aeronautical, and agro-meteorological stations.

Data type	Theme	Format	Metadata record	Description
Climatological	National meteorological records	ASCII	As per WMO norms. Information available from contact < meteo@intnet.mu >	Stations: See Table 2 Variables: See Table 3
Contact: Director, Meteorological Services, Vacoas, Mauritius < meteo@intnet.mu >				

Table 1: List of observing stations

Station	WMO No.	Longitude	Latitude	Station type
Vacoas	61995	57° 30' E	20° 18' S	Climatological and surface synoptic network
Plaisance	61990	57° 41' E	20° 26' S	Climatological, aeronautical, and surface synoptic network
Pointe Canon	61988	63° 25' E	19° 41' S	Climatological and surface synoptic network
PlaineCorail	619xx	63° 22' E	19° 45' S	Aeronautical
Agalega	61974	56° 35' E	10° 21' S	Climatological and surface synoptic network
St. Brandon	61986	59° 37' E	16° 27' S	Climatological and surface synoptic network
Tromelin	61976	54° 25' E	15 52' S	Climatological and surface synoptic network
Diego Garcia	61967	72° 25' E	7° 19' S	Climatological, aeronautical, and surface synoptic network

Table 2: Parameters observed

Elements observed	Unit	Frequency of observation	Equipment used
Wind direction	Degrees	Synoptic	Wind vane
Wind speed	Knots	Synoptic	Anemometer
Air temperature	Deg. C	Synoptic	Thermometer
Maximum temperature	Deg. C	Daily	Thermometer (Min.)
Minimum temperature	Deg. C	Daily	Thermometer (Max.)
Relative humidity	%	Synoptic	Hygrometer and computed
Dew point temperature	Deg. C	Synoptic	Computed

Elements observed	Unit	Frequency of observation	Equipment used
Water vapour pressure	hPa	Synoptic	Computed
Atmospheric pressure	hPa	Synoptic	Barometer
Precipitation	mm	Daily	Rain gauge
Sunshine hours	hours	Daily	Sunshine recorder and pyr heliometer
Evaporation	mm	Daily	Evaporation pan

Data storage format: ASCII.

Access to data: Via official communication in writing to the Director.

Contact address: Director, Meteorological Services, St. Paul Road, Vacoas, Mauritius. <meteo@intnet.mu>

Data are also received from:

20 Automatic Weather Stations

Over 250 Rainfall stations

6 Agrometeorological stations

Upper-air observations are, at times, made at the Vacoas and Rodrigues stations.

The Tromelin station is operated by the French Administration.

The Diego Garcia station is operated by the United States Administration.

Additional information on access to paleo-data

One major PAGES task is to provide easy access to paleodata and information about paleoarchives. This information is available through the web site

<http://www.pages-igbp.org>. The site is modified regularly and includes new products, databases, science highlights, upcoming events and general information on paleoarchives. A set of overhead view graphs is available to download from the website. These overheads are regularly used by scientists for educational and public outreach lectures. The overheads are sent free of charge to scientists in developing countries that are unable to download and print them from the websites:

<http://www.pages-igbp.org/>

<http://www.ncdc.noaa.gov/paleo/paleo.html>

2.3 Marine and coastal geology and geomorphology

Data type	Theme	Format	Metadata Record	Description
Aerial	Soil type	Maps	AFRC, MOI, MoE URL	Hard copy, digital
	Minerals	N/A	N/A	N/A
	Geohazards	Digital	MHL	
Aerial	Sediment	Maps	AFRC, MOI, MoE URL	Hard copy, digital

2.4 Freshwater resources and drainage, including rivers, estuaries, delta and coastal lakes

Data type	Theme	Format	MetadataRecord	Description
Time series	Hydrological data	PDF	http://www.gov.mu/portal/site/mpusite	Year 2000-2005
Map	Drainage Basins	AutoCAD drawing / image file (wmf)	Water Resources Unit- Ministry of Energy and Public Utilities	For the whole island River basins delimitation & catchments area

Map	Aquifers / Coastal aquifers	AutoCAD drawing / image file (wmf)	Water Resources Unit- Ministry of Energy and Public Utilities	For the whole island
Time series	River Discharge	Hard copies (Annual tables) / Digital records (text files convertible to excel)	Water Resources Unit- Ministry of Energy and Public Utilities	Mean Daily Flows, Monthly summaries
Time series	River Discharge to the sea	Hard copies (Annual tables) / Digital records (text files convertible to excel)	Water Resources Unit- Ministry of Energy and Public Utilities	Mean Daily Flows, Monthly summaries
Time series	Surface Water Abstraction	Hard copies / Digital records (text files convertible to excel, excel files)	Water Resources Unit- Ministry of Energy and Public Utilities	Monthly volumes, Mean Daily Flows
Time series	Groundwater Abstraction	Hard copies / Digital records (excel files)	Water Resources Unit- Ministry of Energy and Public Utilities	Groundwater abstraction data for agricultural, industrial and domestic boreholes
Time series	Monitoring of coastal aquifers	Hard copies	Water Resources Unit- Ministry of Energy and Public Utilities	Conductivity profiles in interface piezometers
Workshop papers	Measurement and prediction of Agrochemical Movement in Tropical Sugar cane Production	Hard copies	Mauritius Sugar Industry Research Institute (MSIRI)	Study carried out from January 1997 to June 2001
Water quality analysis	Independent environment audit on waste water projects	Digital/hard copies	National Environmental Laboratory - Ministry of Environment and National Development	Started in 2004 Treated Wastewater Quality Ground Water Quality , Surface Water Quality , & Seawater Quality ingeographical catchment areas that are being covered by the four major sewerage plants
Report	Assessment of groundwater contamination using isotopes techniques- phase I	Will be available shortly	National Environmental Laboratory - Ministry of Environment and National Development (in collaboration with International Atomic Energy Agency –IAEA)	Aquifer I and II Project number MAR8007
Report	Sediment load in reservoirs	Hard copies	Water Resources Unit- Ministry of Energy and Public Utilities	Hydrographic surveys and sedimentation studies in four reservoirs Final report 1997

2.5 Physical Oceanography

2.5.2 Tide regime and waves

Tide Gauge data

Almost continuous data has been obtained from AIA floating type tide gauge installed at Port Louis in August 1986. It has been upgraded on many occasions. Formerly, hourly data used to be extracted from the continuous record. The data are archived at the Meteorological Services. Data are then transmitted to the international data centre at Hawaii and the Permanent Service for Sea Mean Level. It is available at the Hawaii Centre in two forms: fast data mode and research data mode. For example in January 2010, monthly mean data was available as follows:

Data mode	Beginning month	Up to
Fast mode	October 1986	November 2009
Research mode	October 1986	February 2008

Satellite Altimetry Data

Altimetry data are now available from the TOPEX POSEIDON.

Satellite wave data

Model wave data has been developed to compute wave height and direction from wind fields. These are available from the following websites

Wave forecast are also be obtained at the following web sites

Website 12 Hours 24 Hours 2 Days 4 days

2.5.3 Sea level change

Sea level measurement is made by both in-situ and ex-situ remote sensing methods. They complement each other. In-situ observations from tide gauges are site specific whereas observations from satellites provide information over a regional and global scale. In-situ observation is used for satellite calibration.

Data type	Theme	Format	Metadata record	Description
In situ sea level data	Mauritius Meteorological Services Sea level data	Digital ASCII	http://nodc.intnet.mu/	Complete Metadata available for Mauritius and Rodrigues. Sea level data can be obtained by Director Meteorological Services (http://metservice.intnet.mu/)
In Situ Sea level data	University of Hawaii Sea level Data	Digital ASCII	http://ilikai.soest.hawaii.edu/uhs/c/html/0103C.html	Two types of data available: Real quality data for research and Fast delivery data for Rodrigues and Mauritius for the period 1986 to 2003 and

				1986 to 2010 respectively
In Situ sea level data	Permanent Service for Mean Sea Level	Digital ASCII	http://www.psmsl.org/	Monthly data are available for Grand Port (01-01-1980), Port Louis I(12 – 06-1991), Port Louis II(01-02-2010) and Rodrigues (01-02-2010)
Altimeter - Sea Surface measurement, sea height, sea level, sea surface topography, wave height	NOAA NODC satellite data		http://data.nodc.noaa.gov/accession/0053056	Global Sea Level Derived from Satellite Altimeter Data: <ul style="list-style-type: none"> • Jason-2 / Ocean Surface Topography Mission (OSTM) Archive • Geosat Altimeter Data: Enhanced JGM-3 Geophysical Data Records on CD-ROM

Tide gauge data

Since 1986, continuous data is available for Mauritius and Rodrigues when sea level stations were installed within the framework of the 10-year WMO/IOC Tropical Ocean Global Atmosphere (TOGA) programme (1985-1994). The data is archived at the NODC Mauritius (<http://www.nodc-mauritius.org>). The METADATA for the Port Louis sea level gauge is given in Table 1I and for Rodrigues in Table III.

Table 1I

1. Name of Station: Sea Level Station - Port-Louis (Harbour)
2. Location where data is collected: 20° 09'S 57° 30'E
3. Data frequency: 15 minute interval, Hourly
4. Equipment used: A71 Leopold and Steven
5. Beginning date of data set: August 1986, End date: In progress with some gaps due to equipment failure
6. No. of observations: About 122,000
7. Format of data storage: Digital ASCII, available 3.5 floppy but is being updated on CD's in Excel Format
8. Access constraints: Available for scientific purposes to all shareholders and on request to others
9. Contact Address: Mauritius Meteorological Services, St Paul Road, Vacoas, Mauritius

Table II

1. Name of Station: Sea Level Station - Port-Mathurin
2. Location where data is collected: Latitude: 19-40S, Longitude: 063-25E
3. Data frequency: 15 minute interval, Hourly
4. Equipment used: A71 Leopold and Steven
5. Beginning date of data set: August 1986, End date: In progress with some gaps due to equipment failure
6. No. of observations: 96%
7. Format of data storage: Digital ASCII, available 3.5 floppy but is being updated on CD's in Excel Format

8. Access constraints: Available for scientific purposes to all shareholders and on request to others
 9. Contact Address: Mauritius Meteorological Services, St Paul St. Vacoas, Mauritius

At global level, data is archived at Joint Archive for Sea Level (JASL), a collaboration between the University of Hawaii Sea Level Centre (UHSLC) and the World Data Centre for oceanography (<http://ilikai.soest.hawaii.edu/UHSLC/jaslanrep.html>, <http://uhslc.soest.hawaii.edu/>). The JASL receives hourly data from regional and national sea level networks. The data are inspected, quality controlled, assessed and well documented. They are, hence, scientifically valid and quality assured. There are two types of data- research quality data and fast mode sea level data available via the above website partly. The latter is used to provide information to calibrate satellite altimeter data. For the research data there are: monthly data available from October 1986 to February 2008. Daily data and hourly data are also available from the website. For fast delivery data, monthly data are available from August 1986 to date.

For Rodrigues: monthly research quality data from December 1986 to December 2003 is available. Daily and hourly data are also available for the period.

The Permanent Service for Mean Sea Level (PSMSL)

Sea level data can also be obtained from the Permanent Service for Mean Sea Level (PSMSL). Since 1933, the PSMSL has been responsible for the collection, publication, analysis and interpretation of sea level data from the global network of tide gauges. It is based at the Proudman Oceanographic Laboratory (POL), Bidston Observatory which is a component of the UK Natural Environment Research Council (NERC). As of August 2002, the database of the PSMSL contains over 49000 station-years of monthly and annual mean values of sea level from over 1800 tide gauge stations around the world received from almost 200 national authorities including Mauritius and Rodrigues from the website http://woce.nodc.noaa.gov/woce_v3/wocedata_2/slevel_dm/psmsl/psmsl.html.

2.5.4 Ocean Temperature

Various technologies have been developed to obtain accurate in situ and ex situ data. Ocean temperature charts are prepared on a routine basis using a combination of data from various sources. It is noted that satellites measure surface temperature and some adjustment is made before it is blended with other data from in situ sources for the preparation of ocean products. Observation technologies on a large area scale to obtain ocean data regularly are evolving continuously. One example is the ARGO programme which measures sea temperature to a depth of 1000 m using ARGO floats which sink and rise at intervals of 10 days while drifting with ocean currents.

Type	Thematic	Format	Metadata	Description
Satellite	Surface Temperature			
CTD	Conductivity, temperature, Depth			The three parameters are measured directly by the instrument and signals are transmitted to indicators and recorders on board ships. Temperature accuracy is of the order of .001 Deg C and depth 1 m. However, CTD is mostly used by research ships and data is not easily accessible publicly. There is a need to establish a one stop shop where data will be stored for use

				by a third party after it has been explored for the original purpose it was collected.
ARGO				The aim is to have a network of about 3000 floats operational relaying data on temperature at different depths at regular intervals to a receiving station for operational and research application.

2.5.5 Salinity patterns

No salinity data compiled locally, except probably very limited bases at certain institutions.

Comprehensive data sets (NODC/NOAA 2010) are available at: <http://www.nodc.noaa.gov/OC5/indprod.html>

2.5.6 Ocean-atmosphere interaction

Data type	Theme	Format	Metadata record	Description
CO ₂ – ship based	CO ₂ data, PH	Unknown		
CTD – ship based	Profile (chemical)	Unknown		
Drifters	Physical properties	Unknown		
Model outputs	N/A			

Note: Useful data can be accessed via ftp from: ftp://ftp.whoi.edu/pub/science/oaflux/data_v3

2.6 Chemical and Biological Oceanography

2.6.3 Primary production

Most of the data are in published forms and are available at various institutions. Main available datasets are as follows:

Data type	Themes	Format	Metadata Record	Description
Reports and publications	Inventory	Word.doc	Species distribution and abundance
Maps and Tables	Species composition	Excel	Density and distribution of phytoplanktons, nutrients and chlorophyll-a concentration
Figures	Species identification	Shapefile	

2.6.4 Secondary production

Data type	Themes	Format	Metadata Record	Description
Reports and publications	Inventory	Word.doc		Species distribution and abundance
Maps and Tables	Species composition	Excel		Density and distribution
Figures	Species identification	Shapefile		

2.7 Coastal zone and continental shelf

2.7.1 Description and extent of coastal and marine habitats

List of data at Mauritius Oceanography Institute (MOI)

Data type	Theme	Format	Metadata record*	Description	Data Access
Spatial data	Mauritius South East Coastal Region	Shapefile	Coordinated System: WGS84. Copyrights: Government of Mauritius	Digitized from aerial photography and validated through field survey (2004)	Contact Director: moi@intnet.mu
Spatial data	Lagoon Bathymetry of Mauritius	Shapefile/ ASCII	Raster image, grid cell size: 2 m. Coordinated System: WGS84. Copyrights: MOI	Generated by single beam echo sounder and limits beyond the 200 nautical mile limits	Contact Director: moi@intnet.mu

2.8 Microfauna and meiofauna

Most of the data are in published forms and are available in various institutions. Main available datasets are as follows:

Data type	Themes	Format	Metadata Record	Description
Reports and publications	Inventory	Word.doc		Species distribution and abundance; toxicity tests
Maps and Tables	Species composition	Excel		Density and distribution
Figures	Species identification	Shapefile		

2.9 Macrofauna (state of biological knowledge)

2.9.1 Invertebrates

Data type	Themes	Format	Metadata Record	Description
Cruise reports	Inventory	Word.doc		Species distribution
Maps and Tables	Species composition	shapefile		density
Figures	Species identification	shapefile		

2.9.2 Fish and fishery resources

Data type	Themes	Format	Metadata Record	Description
Cruise reports	Inventory	Word.doc	URL and publications	Species distribution and abundance
Maps and Tables	Species composition	excel		Distribution and density
Figures	Species identification	excel		

2.9.3 Mammals

Data type	Themes	Format	Metadata Record	Description
Cruise reports	Inventory	Word .doc	URL and published doc	Species distribution
Maps and Tables	Species composition	Excel		Density and abundance
Figures	Species identification	Excel shapefile		

2.9.5 Birds

Data type	Themes	Format	Metadata Record	Description
Reports	Inventory	Word doc	URL	Species distribution
Tables	Species composition	Shapefile Excel		density
Figures	Species identification	shapefile		

2.9.6 Exotic and invasive species

Data type	Themes	Format	Metadata Record	Description
Reports and publications	Inventory	Word.doc	URL	Species distribution
Maps and Tables	Species	Excel		Density and

	composition			distribution
Figures	Species identification	Shapefile		

3. HUMAN ENVIRONMENTS

3.1 Coastal and island populations – current status and trends

Data type	Themes	Format	Metadata Record	Description
Maps	Location of towns and villages	Shape files and points	http://gov.mu/portal/goc/cso/rep/ort/natacc/demo08/toc.htm	Map showing settlements. Some details e.g – Roads, Buildings, Dwellings, Natural Spaces
Maps and Tables	Current Demographics of coastal populations	Shape files and Excel tables	http://gov.mu/portal/goc/cso/rep/ort/natacc/demo08/toc.htm	Populations and Population density. Population by VCA/MCA/Districts
Tables	Trends in population	Excel	http://gov.mu/portal/goc/cso/rep/ort/natacc/demo08/toc.htm	Time series
Tables and figures	Age structure of the population/economically active sector	Excel	http://gov.mu/portal/goc/cso/rep/ort/natacc/demo08/toc.htm	Population by age groups. Population pyramids and projections. Population density by VCA/MVCA/Districts
Tables and figures	Projected demographic rates	Excel	http://gov.mu/portal/goc/cso/rep/ort/natacc/demo08/toc.htm	Projections by age group Population migration among districts

3.2 Sites of religious or cultural significance

Data type	Themes	Format	Metadata Record	Description
Maps and texts	Sites of religious or cultural significance (where they are and what they are)	Shape files and points. Text descriptions	http://www.gov.mu/portal/sites/housing http://www.gov.mu/portal/site/culture	Map showing sites
Texts	Restoration efforts	Texts	http://www.gov.mu/nheritage/menuitem.1baffaaeb20cb91a43732f0248a521ca	Sites

Texts and Tables	Status of preservation (eg UNESCO cultural heritage status)	Texts and Excel	http://www.gov.mu/nheritage/menutem.1baffaaeb20cb91a43732f0248a521ca RL	Heritage sites etc
------------------	---	-----------------	--	--------------------

3.3 Human health

Data type	Themes	Format	Metadata Record	Description
Maps and texts	Distribution and impact of Affected	Shape files and points. Text descriptions, tables	http://www.gov.mu/health http://www.gov.mu/culture	1.Map showing sites 2. Data available upon request (cso_envi@mail.gov.mu)
Tables	Cases of diseases	Excel	http://www.gov.mu/health http://statsmauritius.gov.mu	Types of diseases (cso_envi@mail.gov.mu)
Map,	Location of Health Services	JPEG	http://...	
Tables	Access to potable water	Excel	http://statsmauritius.gov.mu (Census)	% of households having access to potable water and other household amenities (cso_envi@mail.gov.mu)
Tables	Access to health services	Excel	http://www.gov.mu/health http://statsmauritius.gov.mu	Hospitals and health services attendances (cso_envi@mail.gov.mu)

6. PLANNING AND MANAGEMENT

6.1 National Disaster Management Plans (Mauritius)

Data type	Themes	Format	Metadata record	Description
Meteorological satellite	Pictures	Digital	Operational. Not archived locally. Contact: The Director, Meteorological Services meteo@intnet.mu	Fresh data. Animations
Meteorological satellite	Advisories & Bulletins	ASCII	Operational. Not archived locally. Contact: The Director, Meteorological Services meteo@intnet.mu	Fresh from other centers
Tsunami-related	Advisories	ASCII	Operational. Not archived Contact: The Director, Meteorological Services meteo@intnet.mu	Monitored continuously
Tsunami-related tide data	Tide level	ASCII	Operational. Flushed every year. Contact: The Director,	

			Meteorological Services meteo@intnet.mu	
Ocean Environment	Monitoring	Verbal & ASCII	Contact: The Permanent Secretary, Ministry of Environment and Sustainable Development at <menv@mail.gov.mu>	
Health	Surveillance	ASCII	Contact: moh@mail.gov.mu	Focus on seaport and airport

6.2 Environmental sensitivity mapping

Data type	Theme	Format	Metadata Record	Description
Environmental Sensitivity Mapping Report	<ul style="list-style-type: none"> - Technical report on freshwater wetlands including wetland property ownership maps (coastal and upland) - Environmentally sensitive areas classification report - Environmentally sensitive areas strategic management plan - Policy guidance for ESAs - Report on the status of laws and institutions to protect ESAs in Mauritius - ESAs site and location maps 	Hard copies and soft copies (to be made public soon)	Ministry of Environment and National Development Unit	Study carried out from January 2008 to April 2009

6.3 Coastal management / development plans

Lists of organizations

Ministry of Environment and Sustainable Development – ICZM Framework Study, 2010

Data type	Themes	Format	Metadata record*	Description
ICZM Report	Development of an Integrated Coastal Zone Management Framework (ICZM) for the Republic of Mauritius	Document	Copy of the Final Report prepared by Landell Mills in October 2009 & is available at the Department of the Environment, ICZM Division	The ICZM framework is tool for the sustainable management and development of our coastal zones and to ensure future development of the coastal zone in an integrated and holistic manner
Study on Coastal Erosion	Coastal Erosion in Mauritius	Document Final Technical Report	The Final Report prepared in August 2003 by W. F. Baird & Associates Coastal Engineers Ltd in association with Reef Watch Consultancy Ltd for the	A Study to determine and assess the extent of coastal erosion in critical sites around Mauritius and analyse their various causes.

			Ministry of Environment. Copies of the report are available at the Department of the Environment, ICZM Division	
--	--	--	--	--

Ministry of Housing and Lands – National Development Strategy (NDS) 2003 and Planning Policy Guidance 1 (PPG 1) 2004

Data type	Themes	Format	Metadata record*	Description
NDS Report	20 year Plan for Strategic Development of Mauritius	Document	The NDS prepared in 2003 by Halcrow Group Ltd for the Government of Mauritius through the Ministry of Housing and Lands in replacement of the 1993/94 National physical development Plan. The document is downloadable from the website of the Ministry	The NDS is a cohesive package of plans and policies, guidelines and mechanisms for managing planning change sustainably, monitoring and updating of the development strategy.
PPG Report	Residential Coastal Development Design Sheet	Document	The Design Guidance of PPG1 was issued by the Ministry of Housing and Lands in 2004 and was revised in September 2006. The document is downloadable from the website of the Ministry	The revised guidance PPG is more flexible for development within coastal lands while ensuring that the visual image of the coastal zone and the future of the tourism industry are safeguarded.

6.4 Areas under special management

Lists of organisations

Ministry of Agro Industry, Food Production and Security (Forestry Department and National Parks and Conservation Service), the Islets National Park Strategic Plan

Data type	Themes	Format	Metadata record*	Description
	Managed areas			
Report	Nature Reserves & Islets National Parks	Document	Management plans prepared by a consultant team from the Belgium firm AGRER in 2004 for the National Parks and Conservation Service. Copy of the Islets National Park Strategic Plans is available on the website of the Ministry of Agro Industry (NPCS)	Development of a Management Plan for the Conservation and Management of Offshore Islets for the Republic of Mauritius

Ministry of Housing and Lands Planning Policy Guidance 2 (PPG2) – Le Morne Cultural Landscape

Data type	Themes	Format	Metadata record*	Description
-----------	--------	--------	------------------	-------------

	Managed areas			
PPG Guidelines	Le Morne Cultural Landscape Design Guidance	Document	Second document in a series of Planning Policy Guidance prepared by the Ministry of Housing and Lands in 2007 and is available on the website of the Ministry	Design Guidance for management and control development in the Core Zone and Buffer Zone of Le Morne Cultural Landscape