# **ASCLME MEDA Template**

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**MEDA ANNEXES** 

## **GUIDELINES FOR THE CONTENT OF EACH SECTION OF THE MEDA**

#### **Preamble** (Introduction, and placing the MEDA in National context)

The national Marine Ecosystem Diagnostic Analyses (MEDAs) form the basis for the contribution of each country to the regional Transboundary Diagnostic Analyses (TDAs). As such they are fundamentally important to the success of the ASCLME Project. MEDAs will capture essential information relating to the dynamic biophysical processes that define the LMEs, and identify areas of concern that will feed into the Transboundary Diagnostic Analyses (TDAs), and the Strategic Action Programmes (SAPs), one for the Agulhas Current LME, and the other for southern part of the Somali Current LME. The parallel UNEP (WIO-LaB) and World Bank (SWIOFP) Projects will also feed pertinent information into the TDA/SAP formulation process, and identify policy, legal and institutional reforms and needed investments to address transboundary priorities.

## A Executive summary

## **<u>B</u>** Current status

Current status of the national marine ecosystem, socio-economics, governance and management in a logical structure (see pages 2-5 below). This should include areas that WIO-LaB and SWIOFP are covering, as they are not producing national MEDAs. At the same time, there is no need to duplicate work between sister projects, so we should reference WIO-LaB / SWIOFP documents/products eg. the WIO-LaB TDA when required. We do need to remember to cover all aspects of the marine & coastal ecosystem. Any and all contributions should be fully acknowledged, even if from unpublished sources.

Recent history as well as palaeo-science must be reviewed if relevant to the current status of the national marine ecosystem.

Each section has a recommended length; this is a **rough** guide for text, and excludes maps, tables, graphs, areas of concern, lists of data, and gaps.

The data sets listed below, issues and gaps are **suggestions and examples** only. The examples may not be relevant to every country, and are by no means the only areas to be addressed. The MEDA is expected to reflect a **complete review** of each section.

The general description should be comprehensive, exhaustive, fully referenced and make use of any national state of the coast/ocean/environment reports that are available. It should review current ecosystem knowledge and knowledge gaps. The document should be written in a style suitable for publication. Throughout the text, for each numbered section, inserts should be provided on:

i) AREAS OF CONCERN Identification of National Marine Ecosystem Resource Issues and Problems. Particular attention should be paid to a) Issues within your country that are caused or influenced by other countries / international activities, b) Regional issues (shared by neighboring countries, c) Activities or issues within your country that have an influence externally – on other countries or on areas beyond national jurisdiction.

ii) DATA. Data sets relevant to each section (not raw data sets, here I refer to numeric or spatial information). Summarised in Annex II and III.

**iii**) **GAPS**. What is not known (gaps in knowledge) and recommendations to address these gaps. Also to be summarized in Annex IX.

> All literature used should be entered into the extended bibliography (Annex I)

➢ All data sets cited should be captured into the metadatabase, records from which should be appended to the MEDA (Annex II).

## 1. COUNTRY OVERVIEW

Including a general introduction to the economy

## 2. **BIOPHYSICAL ENVIRONMENT**

## 2.1 Description of the coast and distinctive features

#### Approximately one page of text

An exhaustive description of the coast and distinctive features, fully referenced.

#### i) Areas of concern

#### ii) Data

Data type	Theme	Format	Metadata	Description
			record*	
Spatial data	Coastline	Shapefile		
Spatial data	Continental shelf	Shapefile		
Spatial data	Deltas	Shapefile		
Aerial				(availability, dates,
photographs				vertical/oblique,
				scale
Spatial data	Bathymetry data			
Spatial data	Coastal topography			
	data			
Nautical charts of				list of charts,
the coast				availability in
				hardcopy /
				electronic / themes
				digitized
				separately

\* Insert a unique ID for the full metadata record(s), or a hyperlink to a URL for the metadata record.

#### iii) Gaps

Data or information still required to complete this section. Eg a lack of published baseline points

## 2.2 General description of the climate

**Approximately one page of text;** *an exhaustive description of the climate, seasonality and trends over time. This should be a general description of the climate.* 

#### i) Areas of concern

eg. Environmental variability / unpredictability

Data type	Theme	Format	Metadata record	Description	
	National			Parameters	
	meteorological			measured	and
	observations			periodicity	

Data or information still required to complete this section.

#### 2.3 Marine and coastal geology and geomorphology

**Approximately one page of text**; an exhaustive description of the geology and geomorphology, fully *referenced*.

#### i) Areas of concern

eg. Coastal erosion Mineral exploration

#### ii) Data

Data type	Theme	Format	Metadata record	Description
	Soil types			
	Minerals			
	Geohazards			
	Sediment			

#### iii) Gaps

Data or information still required to complete this section.

# 2.4 Freshwater resources and drainage, including rivers, estuaries, deltas and coastal lakes

#### Approximately one page of text;

An exhaustive description of freshwater resources and drainage basins, fully referenced. Including coastal aquifers.

#### i) Areas of concern

eg. Freshwater input into the coastal environment – impacts of water abstraction or pollution. Eg availability of fresh water resources Eg water abstraction and pollution -pollution input (agricultural or industrial) Eg. Sediment input

Data type	Theme	Format	Metadata record	Description
	Rivers (perennial and non-perennial)	Shapefile		

Drainage basins	Shapefile	
River discharge		
Flow regimes (and seasonality of flow)		
Flow regimes of major rivers	Tabular data	

Data or information still required to complete this section.

# 2.5 Physical Oceanography

2.5.1 Currents (Coastal hydrodynamics and offshore current systems)

- > 3-5 pages of text
- > Patterns and variability

## i) Areas of concern

ii) Data

Data type	Theme	Format	Metadata	Description
			record	
Satellite data				
Mooring data				
Cruises				
Drifter data				
Indigenous				Descriptive
knowledge				information on
				coastal currents
Model outputs				

iii) Gaps

## 2.5.2 Tidal regime and waves

Half a page, tidal ranges Wave patterns

> i) Areas of concern Storm surges, flooding, extreme waves

Data type	Theme	Format	Metadata record	Description
Tide gauge data				
Satellite data -				
waves				

Eg. Lack of tide gauges (gaps in the regional array) is a possible data gap.

## 2.5.3 Sea level change

**One page**, include paleontology AND prediction.

## i) Areas of concern

ii) Data

Data type	Theme	Format	Metadata record	Description
Tide gauge data				
Satellite data - waves				

## iii) Gaps

#### 2.5.4 Ocean temperature (climatologies and features / anomalies)

- SST and in-situ measurements

#### > One page

i) Areas of concernCoral bleachingFish killsLoss of colour, and hence value in seaweed products.

#### ii) Data

Data type	Theme	Format	Metadata record	Description
Satellite				
UTRs				
Thermister chains				
CTD				

iii) Gaps

## 2.5.5 Salinity patterns (climatologies and features / anomalies)

One page eg. Different water masses - description

#### i) Areas of concern

ii) Data

Data type	Theme	Format	Metadata record	Description
CTD				
Inshore				
measurements				

iii) Gaps

## 2.5.6 Ocean-atmosphere interaction

#### 1-2 pages

Heat flux, carbon exchange, cyclogenesis, and evaporation. Indian Ocean Dipole, prediction/forecasting,

#### i) Areas of concern

- extreme events
- ocean acidification

#### ii) Data

Data type	Theme	Format	Metadata record	Description
Co2 – ship based				
CTD – ship based				
Drifters				
Model outputs				

iii) Gaps

#### 2.6 Chemical and Biological Oceanography

## 2.6.1 Nutrients

i) Areas of concern

Data type	Theme	Format	Metadata record	Description

## 2.6.2 Persistent organic / inorganic pollutants (if not addressed in other sections)

#### i) Areas of concern

#### ii) Data

Data type	Theme	Format	Metadata record	Description

#### iii) Gaps

**2.6.3 Primary production** (climatologies and features / anomalies; biomass and phytoplankton taxonomy

#### **One page**

## i) Areas of concern

- dead zones
- harmful algal blooms (HABs)
- ocean acidification

#### ii) Data

Data type	Theme	Format	Metadata record	Description
Satellite data	Ocean colour			
In-situ water samples				

iii) Gaps

2.6.4 Secondary production (Zooplankton – biomass and taxonomy; patterns and features)

#### **One page**

i) Areas of concern

- trophic relationships

Data type	Category	Format	Metadata record	Description
Ship-based sample				

collection		

## 2.7 Coastal zone and continental shelf

## 2.7.1 Description and extent of coastal and marine habitats

### 2-3 pages

#### i) Areas of concern

- Bleaching,
- acidification,
- destructive fishing methods eg. dynamite fishing, IUU fishing, trawling
- coral mining
- sand mining
- seagrass clearing / beach cleaning
- urban expansion
- nutrient loading

#### ii) Data

Data type	Theme	Format	Metadata	Description
			record	
Maps of coastal				
habitats (millennium				
products and				
ASCLME mapping				
activity)				
Previous assessments				
of marine habitats				
Classification				
schemes used in				
country for habitat				
assessment				
WIO-LaB TDA/SAP				
for issues and				
concerns				

## iii) Gaps

## 2.7.2 Productivity of the coastal zone (corals, mangroves, seagrass beds)

## 2-3 pages

## i) Areas of concern

- overharvesting
- unsustainable mangrove harvesting
- pollution

- sedimentation
- sea level change
- ecosystem health

#### ii) Data

Data type	Theme	Format	Metadata record	Description

iii) Gaps

# 2.8 Microfauna and meiofauna

#### i) Areas of concern

- dead zones
- harmful algal blooms (red tide)

#### ii) Data

Data type	Theme	Format	Metadata record	Description

iii) Gaps

# 2.9 Macrofauna (state of biological knowledge)

Under each one, describe important species commercially (including for tourism), as well as species of conservation concern.

## **2.9.1 Invertebrates**

- o Biodiversity and genetics
- Key species / groups that are being exploited or impacted, referring to section below for catch/economic stats

## i) Areas of concern

- overharvesting
- exotics
- pollution (refer to 2.9.5)
- destructive fishing methods eg trawling, dynamite fishing
- effects of aquaculture
- habitat destruction

Data type	Category	Format	Metadata record	Description
	Abundance,			

biomass, diversity, species distributions		

#### 2.9.2 Fish and fish resources

- o Biodiversity and genetics
- Key species / groups that are being exploited, referring to section below for catch/economic stats
- o [Catch locations of non-commercial threatened species (eg coelacanths, dugongs)]

#### i) Areas of concern

- overharvesting, note MCS cross-ref
- exotics
- pollution (refer to 2.9.5)
- destructive fishing methods eg trawling, dynamite fishing
- effects of aquaculture
- habitat destruction
- effects of tourism

#### ii) Data

Data type	Theme	Format	Metadata record	Description
	Abundance, biomass, diversity, species distributions			

iii) Gaps

#### 2.9.3 Mammals

#### i) Areas of concern

- overharvesting, note MCS cross-ref
- pollution (refer to 2.9.5)
- destructive fishing methods damage to habitat eg trawling, dynamite fishing
- effects of aquaculture
- habitat destruction
- effects of tourism (viewing dolphins)

	record	
Abundance,		
biomass,		
diversity, species		
distributions		

## 2.9.4 Reptiles

## i) Areas of concern

- overharvesting, note MCS cross-ref, illegal fishing/poaching
- pollution (refer to 2.9.5)
- destructive fishing methods eg trawling, dynamite fishing, gill netting
- destruction of breeding and nesting sites (habitat destruction)
- sea level rise
- effects of tourism (hotel development)

#### ii) Data

Data type	Themes	Format	Metadata	Description
			record	
	Abundance,			
	biomass,			
	diversity, species			
	distributions			

iii) Gaps

# 2.9.5 Birds (seabirds and coastal birds)

#### i) Areas of concern

- pollution
- destruction of breeding and nesting sites (habitat destruction)
- lack of knowledge
- fishing methods
- introduced animals destroying nesting sites of ground-breeding birds.

Data type	Themes	Format	Metadata record	Description
	Abundance,			
	biomass,			
	diversity, species			
	distributions			

	•	

## 2.9.6 Exotics and invasive species (state of knowledge and issues they cause)

## i) Areas of concern

Ballast water Aquaculture and diseases. Invasive: Crown-of thorns

#### ii) Data

Data type	Themes	Format	Metadata record	Description
	Abundance,			
	biomass,			
	diversity, species			
	distributions, area			
	of impact			

## iii) Gaps

# 2.10 Long term predicted atmospheric changes (and potential vulnerability of each country).

## i) Areas of concern

- lack of knowledge
- poor models
- data availability
- coefficient of variation!

#### ii) Data

Data type	Themes	Format	Metadata record	Description
models				
(eg. for Cape Town, Kenyan cities)				

iii) Gaps

## **3** HUMAN ENVIRONMENT

## 3.1 Coastal and island populations - current status and trends

#### One page

- distribution, abundance
- cultural diversity
- age structure
- gender structure
- migration

#### i) Areas of concern

- (causing) pollution
- accessibility (hospitals, markets) lack of infrastructure (cross ref to infrastructure section)
- population pressure

#### ii) Data

Data type	Themes	Format	Metadata record	Description
	Location of towns and villages			
	current demographics of coastal populations			
	Trends			
	Age structure of the population / economically active sector.			

## iii) Gaps

## 3.2 Sites of religious or cultural significance

#### 1-2 pages

## i) Areas of concern

- accessibility
- cultural erosion loss of appreciation of the importance of cultural sites
- physical erosion of culturally important sites
- economic pressures

Data type	Themes	Format	Metadata record	Description
	Sites of religious or cultural			

significance (where they are and what they are)		
<b>Restoration efforts</b>		
Statusofpreservation(egUNESCO culturalheritage status)		

## 3.3 Human health

## One page

> Link to planning, infrastructure and management section

#### i) Areas of concern

- malnutrition
- education literacy levels
- disease
- access to potable water
- access to health services

#### ii) Data

Data type	Themes	Format	Metadata record	Description
	Distribution and impact			

## iii) Gaps

## **3.4 Infrastructure** (transport, road, rail, internet)

## One page

#### i) Areas of concern

- lack of investment / poor maintenance
- level of education

Data type	Themes	Format	Metadata record	Description
	Roads			

Rails		
Airports		
Communication		
networks		
Ports and marine		
transport(in 4.3)		

## **4** ECONOMY

## 4.1 General description, including:

- > GDP
- ➢ Key economic and social indicators
- ➢ Wage employment, by sector and province
- Balance of, and importance of imports/exports
- Importance of sectors

# THEN a detailed description of sectors (information coming largely from Coastal Livelihoods Project) including economic valuation info on:

- 4.2 Tourism
- 4.3 Ports and marine transport
- 4.4 Manufacturing (boat building here or under fisheries)
- 4.5 Mineral extraction (including oil and gas)
- 4.6 Aquaculture, agriculture and forestry
- 4.7 Fisheries (ornamental, artisanal, subsistence) and associated activities
  - Fishing grounds (trawlable/untrawlable, nature of gear used)
  - Fish market sites
  - ➢ Fish landing sites
  - Catch rates of key species/grounds
  - Trends of catch rates (past 50 years where available)
  - Frame survey results
  - Bait collection activities

## **5 POLICY AND GOVERNANCE**

## 5.1 Administrative regions on land (coastal districts, municipalities)

## Half a page (figure)

#### i) Areas of concern

Data type	Themes	Format	Metadata record	Description
	Boundaries of admin regions, and names			

## 5.2 Administrative/legislative zones of the sea (territorial waters, EEZ)

#### **One page**

#### i) Areas of concern

- administrative boundaries are political, based on land, not water.
- countries haven't necessarily negotiated EEZs.
- baselines may be inadequate.

#### ii) Data

Data type	Themes	Format	Metadata record*	Description
Spatial data	National baseline	Points		
	Boundaries of other managed areas			
Spatial data	EEZ	Shapefile		

\* Insert a unique ID for the full metadata record(s), or a hyperlink to a URL for the metadata record.

#### iii) Gaps

**5.3 Legislation** (national, provincial or local) relevant to the coastal and marine environment (fisheries and coastal zone policy and legislation etc). - including MPAs

Two pages

i) Areas of concern- implementation/enforcement of legislation- overlapping legislation

## ii) Data

not necessarily any data - mainly documents

Data type	Themes	Format	Metadata record*	Description

iii) Gaps

5.4 Continental shelf extents (current claim and any proposed extensions)

#### **One page**

#### i) Areas of concern

- deadline for submitting shelf claims

- technical capacity

#### ii) Data

Data type	Themes	Format	Metadata record*	Description
	Current baseline			
	Proposed extensions			

## iii) Gaps

## 5.5 National, provincial and local authorities in coastal/marine affairs

Current status

i) Areas of concern

- unclear mandate on some marine issues
- overlapping mandate

#### ii) Data

LISTS of organizations

Data type	Themes	Format	Metadata record*	Description

## 5.6 NGOs / private sector

Include fisheries organizations Current status

#### i) Areas of concern

- non-fulfillment of commitments, lack of monitoring, inadequate accountability
- lack of transparency and accountability
- participatory planning is good, but implementation is poor

#### ii) Data

#### **LISTS of organizations**

Data type	Themes	Format	Metadata record*	Description

## 5.7 International relations, conventions and committees

Current status

#### i) Areas of concern

- inadequate nationalization of international conventions
- inadequate implementation

#### ii) Data

#### LISTS of organizations

Data type	Themes	Format	Metadata record*	Description

## 6 PLANNING AND MANAGEMENT

#### 6.1 National disaster management plans

#### **One page**

(eg. Oil spills, Tsunamis, storm surges, extreme weather events, cyclones, coastal pollution)

#### i) Areas of concern

- lack of coordination between agencies
- Awareness and communication of plans in place

- Implementation of the plan (when the event happens, institutions aren't prepared to implement measures)

- contingency plans

- ALERT network for tsunami early warning.

#### ii) Data

Data type	Themes	Format	Metadata record*	Description

#### iii) Gaps

- lack of good models for dynamics of seawater (to for example show oil spill movement, tsunami run-up, storm surges

- Inundation maps etc required.

## 6.2 Environmental sensitivity mapping

## 1-2 pages

i) Areas of concern

ii) Data

Data type	Themes	Format	Metadata record*	Description

iii) Gaps

Lack of data Also lack of skills and tools to interpret and use data to develop sensitivity maps.

## 6.3 Coastal management / development plans

## 2 pages

Mitigation of sea level change Spatial development plans Integrated development planning Environmental management plans Coastal management plans, Wastewater management plan

## i) Areas of concern

- lack of coordination between agencies
- Awareness and communication of plans in place
- rapid coastal population growth, population grows faster than the plan.

## ii) Data

## **LISTS of organizations**

Data type	Themes	Format	Metadata record*	Description

iii) Gaps

## 6.4 Areas under special management

## One page

Include marine managed areas, marine protected areas, parks and reserves, community-managed areas.

#### i) Areas of concern

- poaching activities
- coastal development
- conflict between users
- lack of participation in planning process (leading to conflicts)
- lack of education and awareness of the value of managed areas
- conflict over increasing area under protection

#### ii) Data

#### LISTS of organisations

Data type	Themes	Format	Metadata record*	Description
	Managed areas			

iii) Gaps

## 6.5 Monitoring, Control, Surveillance

#### **One page**

Approaches and technologies:

SADC MCS project – scanning using planes/satellites. Implemented VMS. Successful in some countries, not in others (Seychelles Government has taken over the support of SADC MCS project) Satellite surveillance,

#### i) Areas of concern

- policy issues
- adequate enforcement of regulations
- economic issues how much can be spent
- regional cooperation
- availability of resources (manpower etc, patrol vessels)

- lack of communication with policy makers – don't understand the value of the resource, so government spending on MCS systems is not easy.

- permits are issued for quotas but there is no monitoring of catches.

#### ii) Data

Data type	Themes	Format	Metadata record*	Description

## iii) Gaps

## 7 **References**

Numbering system, including the section number.

## **<u>C National Causal Chain analysis</u>**

#### (FROM all sections i) AREA OF CONCERN above)

- 1. Issues and concerns (under modular headings)
- 2. Impacts on the environment, community, economy
- 3. Causes/root causes
- 4. Priority transboundary issues requiring action

## **D** Cost benefit analysis

Independent cost benefit analysis of effective and sustainable management of the national marine ecosystem.

## **<u>E Monitoring and Indicator Assessment Programme</u>**

## F Policy briefing document (possibly later moved up to section A)

## MEDA ANNEXES

I Extended bibliography (may be a virtual annex, linked to searchable website)

II. Metadatabase records

- ➤ Where data were already available online in the national metadatabase, the existing metadata record is sufficient. Where data were digitized or identified from *another* source, the metadata should be written and uploaded. A list of data sets relevant to the ASCLME Project must be listed in this annex.
- III. List of data sets
  - Where *actual* data sets were handled during the process of MEDA development, in addition to ensuring the data are described in the metadatabase, these should be stored in a standard FTP folder structure, the contents of which should be listed in this annex.
- IV. Capacity building and training review and work programme

V. Report on the assessment: Current capacity for GIS, RS, and marine & coastal data and information management in the ASCLME countries in support of the ecosystem approach, with recommendations for capacity building. D&I management capacity reviews should take into account those already undertaken by ReCoMaP, as well as those planned by ODINAFRICA IV (possibly a co-funded activity).

VI. A summarized, prioritized, list of requirements for data collection OR analysis (processing/modeling/integration) OR repatriation to inform the national MEDA. Each recommendation should be associated with a brief budget and activity plan for the transformation of the raw data into useful information for the MEDA.

VII. A detailed record of national projects recently undertaken or currently underway which are relevant to the ASCLME MEDA, TDA or SAP.

VIII. Official designation of territorial waters; other statutes relating to marine governance.

IX. National Data and Information Management Plan

X. Peer-review results for each section and each annex of the MEDA (link to website).

## Other regional reports that will inform the MEDA

1. Project report: <u>Coastal livelihoods assessment</u>, including community welfare and governance. Key findings should be written into section B.

2. Communications strategy

3. Project report: <u>Assessment of the extent and distribution of coastal habitats</u>. Key findings should be written into section B.

# MEDA STAGES OF DEVELOPMENT

#### Stage 1. Month 4

Sections to be completed:

#### Section B

➢ 2. Biophysical environment

#### Annexes

- > VII. A detailed record of national projects recently undertaken or currently underway
- ➢ IX (due on 13 March anyway)

Stage 2. Month 6

Sections to be completed:

#### Section B

> Remainder

#### Annexes

- I Extended bibliography
- ➢ II. Metadatabase records
- ➢ III. List of data sets
- VIII. Governance Annex(es)
- ► X. Peer-review

#### Between stages 2 and 3 there will be a review process to

- A) Review the content of the MEDA in a national meeting with key institutions, to comment on and improve the MEDA.
- **B)** A peer-review.

**<u>Stage 3. Month 8</u>** Sections to be completed:

Section A: Executive summary and list of acronyms

Section C: Causal chain analysis for Issues

Section D: Cost benefit analysis

Section E: Monitoring and Indicator assessment programme

Section F: Policy briefing document

#### Annexes

- > IV. Capacity building and training review and work programme
- > V. Report on the assessment: Current capacity for GIS, RS and data management
- > VI. Requirements for data collection / modeling / repatriation

# TIME LINES

# Month 1 begins after Steering committee approval

2009 dates	Deliverable
MEDA month 1	MEDA plan and TORs for D&I coordinators and thematic specialists complete
MEDA month 1	Countries advertise for MEDA specialists
MEDA month 2	Appointment of MEDA specialists
MEDA month 4	MEDA stage 1 complete
MEDA month 5	Dates set and submitted to the PCU for National meetings in support of the MEDA
	(from Sep to Dec)
MEDA month 6	MEDA stage 2 complete for national meetings
MEDA month 8	MEDA Peer review
MEDA month 8	MEDA stage 3 completed, including causal chain analysis

2010: Adoption of MEDA at National level.

