



Indian Ocean – South-East Asian Marine Turtle Memorandum of Understanding

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TEMPLATE FOR THE SUBMISSION OF NATIONAL REPORTS – 2006*

GENERAL INFORMATION

Signatory State: Which agency or institution has been primarily responsible for the preparation of this report?
List any other agencies, institutions, or NGOs that have provided input:
Memorandum in effect in Signatory State since (dd/mm/yyyy):
This report was last updated: (dd/mm/yyyy):
Designated Focal Point (and full contact details):

INSTRUCTIONS FOR COMPLETION:

The purpose of completing the national report is to provide information on your country's implementation of the IOSEA Marine Turtle MoU including, as far as possible, contributions of cooperating non-governmental partners. Implementation will be assessed in terms of the six objectives of the Conservation and Management Plan (CMP). The reporting template is divided into these six main objectives, and asks specific questions in relation to the activities that need to be carried out to fulfil those objectives.

Please answer all questions as fully and as accurately as possible. It may seem time-consuming, but once you have completed the first report, the next time will be much easier because you can simply revise your existing report on-line. Remember: you are also sharing information about your progress with other countries, and you can look at other countries' reports to get new ideas for marine turtle conservation that might be adapted to your context.

Comment boxes are provided next to most of the questions to explain what information needs to be provided. Text boxes can be expanded to accommodate longer answers or to explain and provide additional information, beyond what is requested. Wherever possible, please try to indicate the source of information used to answer a particular question, if a published reference is available.

If working on a paper copy only, please submit the completed report to the Secretariat (iosea@un.org) by email, as a Word attachment. Feel free to attach additional material (published reports, maps etc) to this template and send them separately by e-mail or by post. When working on the online template, save your information regularly before going to the next page.

Note: References to the 'FAO Guidelines' refer to the FAO Guidelines to Reduce Sea Turtle Mortality in Fishing Operations, 2004.

*this version corrects some minor typographical errors discovered in the template released on 10 August 2005

OBJECTIVE I: REDUCE DIRECT AND INDIRECT CAUSES OF MARINE TURTLE MORTALITY

1.1 Threats to marine turtle populations and their habitats

Please list by name in the following box the nesting beaches, feeding areas and developmental habitats that are important for marine turtles in your country. |

Comment [A1]: Include details, such as province or state, to make identification easier. It is not necessary to provide geographic coordinates here; instead the site name and coordinates should be listed in the separate sheet for each site (refer to ANNEX 1). These sheets will be displayed in a different section of the report.

1.2 Best practice approaches to minimizing threats

1.2.1 Describe any protocol or approaches, which you consider exemplary, for minimising threats to marine turtle populations and their habitats, which may be suitable for adaptation and adoption elsewhere. |

Comment [A2]: Describe just a few "best practice" approaches that have been successful in your country, in sufficient detail to allow readers to judge whether they might be worth pursuing elsewhere. Examples might include community participation programmes, elements of national recovery plans, index beach monitoring protocols etc.

Include references to published reports, where available.

1.3 Programmes to correct adverse economic incentives

1.3.1 Describe any socio-economic studies or activities that have been conducted among communities that interact with marine turtles and their habitats. |

Comment [A3]: Elaborate on the nature of the socio-economic study/activity undertaken, the results obtained (successful or otherwise) and the desirability/suitability for replication.

1.3.2 Which of these adverse economic incentives are underlying threats to marine turtles in your country?

- High prices earned from turtle products relative to other commodities
- Lack of affordable alternatives to turtle products
- Inexpensive access to the turtle resource
- Low cost of land near nesting beaches
- Low penalties against illegal harvesting

Other1 (describe):

Other2 (describe):

Other3 (describe):

None of the above (explain)

1.3.3 Describe any actions your country has taken to try to correct these adverse economic incentives. |

Comment [A4]: Provide sufficient detail on approaches that have shown some measure of success, including resources needed and already secured for their implementation.

1.4 Reduction of incidental capture and mortality

1.4.1 Indicate and describe in more detail the main fisheries occurring in the waters of your country, as well as any high seas fisheries in which flag vessels of your country participate and interact with marine turtles. |

- Shrimp trawls

- Set gill nets

Comment [A5]: Indicate, for example, the approximate geographic distribution of the fishery, how long it has been operating, how many vessels are involved, etc.

- Anchored Fish Aggregating Devices (FADs)

- Purse seine (with or without FADs)

- Longline

- Driftnet

- Other 1 (list them):

- Other 2 (list them):

- None of the above

1.4.2 Please indicate the relative level of fishing effort and impact of each of the above fisheries on marine turtles (e.g. in terms of by-catch) using the following descriptions: HIGH, MODERATE, LOW, NONE, UNKNOWN:

a) Shrimp trawls

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

Comment [A6]: Where possible, provide the source of the information (i.e. detailed citations of published or unpublished reports/studies) used to make this assessment.

b) Set gill nets

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

c) Anchored Fish Aggregating Devices (FADs)

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

d) Purse seine (with or without FADs)

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

e) Longline

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

f) Driftnet

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

g) Other 1 (list):

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

h) Other 2 (list):

Fishing effort: HIGH MODERATE LOW NONE UNKNOWN

Impact: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

1.4.3 Describe any illegal fishing that is known to occur in or around the waters of your country that may impact marine turtles. Describe the measures being taken to deal with this problem and any difficulties encountered in this regard.

1.4.4 Which methods are used by your country to minimise incidental capture/mortality of marine turtles in fishing activities?

Comment [A7]: Use the corresponding text box to describe the methods/measures used, when/where they were introduced, difficulties encountered, and results obtained (i.e. successful and unsuccessful).

Provide references to publications, where available.

- Appropriate handling of incidentally caught turtles (e.g. resuscitation or release by fishers using equipment such as de-hooking, line cutting tools and scoop nets)

- Devices that allow the escape of marine turtles (e.g. turtle excluder devices (TEDs) or other measures that are comparable in effectiveness)

- Measures to avoid encirclement of marine turtles in purse seine fisheries

- Appropriate combinations of hook design, type of bait, depth, gear specifications and fishing practices

- Monitoring and recovery of fish aggregating devices (FADs)

- Net retention and recycling schemes

- Spatial and temporal control of fishing

- Effort management control (e.g. seasonal closures of fishing activities)

- Other (list them):

- None of the above

1.4.5 What programmes has your country developed with the fishing industry and fisheries management organisations to promote implementation of measures to minimise incidental capture and mortality of turtles in national waters and in the high seas? Please use the corresponding text box to elaborate.

- Onboard observer programmes

- Vessel monitoring systems

- Inspections (i.e. at sea, in port, at landing sites)

- Training programmes / workshops to educate fishers

- Informative videos, brochures, printed guidelines etc.

- Other (list them):

- None of the above

Comment [A8]: Please describe the collaboration, when/where the programmes were introduced, any difficulties encountered, and general results obtained (i.e. successful and unsuccessful). Provide references to publications, where available.

1.4.6 Are the mitigation measures described in 1.4.4 and 1.4.5, periodically reviewed and evaluated for their efficacy?

YES NO ?

Please give details.

Comment [A9]: Please provide dates when these reviews were conducted, and indicate how the mitigation measures were adjusted in the light of the reviews' findings.

1.4.7 In your country, what types of data collection, research and development have been undertaken to support the reduction of marine turtle incidental catch (while taking into consideration the impact of various mitigation measures on other species)?

Comment [A10]: The FAO Guidelines highlight the need to research the modification of fish aggregating devices (FADs), impacts of gillnet fisheries etc.

1.4.8 Has your country exchanged information and provided technical assistance (formally or informally) to other Signatory States to promote the activities described in 1.4.4, 1.4.5 and 1.4.7 above?

YES NO ? If yes, please give details of the exchanges/technical assistance.

1.4.9 What legislative and practical measures has your country taken in support of UN General Assembly Resolution 46/215 concerning the moratorium on the use of large-scale driftnets?

Comment [A11]: Please provide the relevant details (e.g. of the legislation adopted, measures undertaken etc.)

1.5 Prohibition of harvest of, and trade in, marine turtles

1.5.1 Does your country have legislation to prohibit direct harvest and domestic trade in marine turtles, their eggs, parts and products? Please give details, including any exceptions made.

YES NO ? Please give details.

Comment [A12]: Please provide details (title/date) of the relevant legislation, as well as any exemptions (e.g. for traditional harvest) under that legislation.

1.5.2 Please indicate the relative level and impact of traditional harvest on marine turtles and their eggs.

Level of harvest: HIGH MODERATE LOW NONE UNKNOWN

Impact of harvest: HIGH MODERATE LOW NONE UNKNOWN

Source of information (type in the text box):

Comment [A13]: Where possible, provide the source of the information (i.e. detailed citations of published or unpublished reports/studies) used to make this assessment.

1.5.3 Have any (domestic) management programmes been established to limit the levels of intentional harvest?

YES NO ? Use the text box to give details.

1.5.4 Tick the boxes **at left** to indicate the economic uses and cultural values of marine turtles in your country (leave unticked, if not applicable). Then rate, on the following scale, the relative prevalence / importance of each consumptive or non-consumptive use:

USES / VALUES	RELATIVE PREVALENCE / IMPORTANCE
<input type="checkbox"/> Meat consumption	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN
<input type="checkbox"/> Egg consumption	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN
<input type="checkbox"/> Shell products	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN
<input type="checkbox"/> Fat consumption	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN
<input type="checkbox"/> Traditional medicine	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN
<input type="checkbox"/> Eco-tourism programmes	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN
<input type="checkbox"/> Cultural / traditional significance	<input type="checkbox"/> HIGH <input type="checkbox"/> MODERATE <input type="checkbox"/> LOW <input type="checkbox"/> NONE <input type="checkbox"/> UNKNOWN

Other (list and rank):

Use the text box to elaborate on your response, if necessary.

Comment [A14]: In particular, please provide more details of any cultural / traditional significance of marine turtles in your country, including references.

1.5.5 Describe any management agreements negotiated between your country and other States in relation to sustainable levels of traditional harvest, to ensure that such harvest does not undermine conservation efforts.

Comment [A15]: Give details of any agreements already in place (including year concluded, parties involved) and any that are planned.

1.6 Nesting beach programmes

1.6.1 Has your country undertaken any evaluation of its nest and beach management programmes?

YES NO ? Use the text box to elaborate on your response, if necessary.

Comment [A16]: Please indicate when the evaluation took place, and provide a reference/contact for any published or unpublished reports.

1.6.2 Tick the boxes at left to indicate whether your country has any of the following measures in place to minimise the mortality of eggs, hatchlings and nesting females (if not, leave unticked); then estimate the relative effectiveness of these measures.

MEASURES	RELATIVE EFFECTIVENESS					
<input type="checkbox"/> Monitoring/protection programmes	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Education/awareness programmes	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Egg relocation/hatcheries	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Predator control	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Vehicle / access restrictions	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Removal of debris / clean-up	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Re-vegetation of frontal dunes	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Building location/design regulations	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Light pollution reduction	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> None of the above	<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> GOOD	<input type="checkbox"/> LOW	<input type="checkbox"/> N/A	<input type="checkbox"/> UNKNOWN	
<input type="checkbox"/> Other (list them)						

Comment [A17]: EXCELLENT = widespread, highly effective; GOOD = partly limited in scope or effectiveness; LOW = very restricted application, low efficacy; N/A (not applicable) = country does not apply the measure in question.

Use the text box to elaborate on your responses, if necessary, including any lessons learned that might be of value to other Signatory States.

OBJECTIVE II: PROTECT, CONSERVE AND REHABILITATE MARINE TURTLE HABITATS

2.1 Other measures to protect and conserve marine turtle habitats

2.1.1 What is being done to protect critical habitats *outside* of established protected areas?

Comment [A18]: Examples might include education/awareness programmes, eco-tourism, community participation, cash incentive programmes, environmental awards, legislation etc.

2.1.2 Are assessments routinely made of the environmental impact of marine and coastal development on marine turtles and their habitats?

YES NO ? Use the text box to elaborate on your response.

Comment [A19]: Examples might include Environmental Impact Assessments (EIAs) of planning applications for coastal development, impact statements, marine debris surveys, eco-tourism assessments, port environmental reports etc. Where possible, give details of particular cases relevant to marine turtles.

2.1.3 Is marine water quality monitored, and what steps if any are taken to protect water quality near turtle habitats (including from marine debris)?

YES NO ?

Please give details. |

Comment [A20]: Indicate whether regular water sampling is done at important habitats for marine turtles; and whether it would be desirable and/or practical to adjust monitoring programmes accordingly.

2.1.4 What measures are in place to prohibit the use of poisonous chemicals and explosives? |

Comment [A21]: Give details of relevant legislation and enforcement action/penalties; including any recent measures to strengthen existing bans.

2.2 Rehabilitation of degraded marine turtle habitats

2.2.1 Are efforts being made to recover degraded coral reefs?

YES NO ? If yes, give details (location, duration, effectiveness, lessons learned etc.) |

Comment [A22]: Examples might include research studies, recovery plans, protection/rehabilitation, monitoring, reducing specific threats, relocating sewage outfall away from coral reefs etc. Provide sufficient details of the measures taken, especially those measures shown to have been effective in recovering degraded reefs.

2.2.2 Are efforts being made to recover degraded mangrove habitats?

YES NO ? If yes, give details (location, duration, effectiveness, lessons learned etc.) |

Comment [A23]: Examples might include research studies, mangrove replanting initiatives, restricting dredging activities and reclaiming of mangrove habitat etc. Provide sufficient details of the measures taken, especially those measures shown to have been effective in recovering degraded mangroves.

2.2.3 Are efforts being made to recover degraded sea grass habitats? If yes, give details (location, duration, effectiveness, lessons learned etc.) |

YES NO ?

Comment [A24]: Provide sufficient details of the measures taken, especially those measures shown to have been effective in recovering degraded sea grass habitat.

OBJECTIVE III: IMPROVE UNDERSTANDING OF MARINE TURTLE ECOLOGY AND POPULATIONS THROUGH RESEARCH, MONITORING AND INFORMATION EXCHANGE

3.1 Studies on marine turtles and their habitats

3.1.1 Give a list of available literature that includes baseline information from studies carried out in your country on marine turtle populations and their habitats. |

Comment [A25]: Please provide as a minimum: the title, author and year of each study/report, journal reference, date of publication, and if possible a web link to the literature. If the list is extensive, divide into categories, such as information on biology and ecology, sources of mortality other than fisheries, status of marine turtle populations including human-related threats etc.

3.1.2 Have **long-term** monitoring programmes (i.e. of at least 10 years duration) been initiated or planned for priority marine turtle populations?

YES NO ?

Please give details. |

Comment [A26]: Please indicate when the specific monitoring programmes began and, as appropriate, for which species. Mention whether they have been any breaks in data collection.

3.1.3 Has the genetic identity of marine turtle populations in your country been characterised?

YES NO ?

Please give details of this research. |

Comment [A27]: Please indicate in general terms the results of this research, particularly any findings that might have region-wide implications.

3.1.4 What studies have been / are being used to identify migration routes? Use the text boxes to provide additional details.

Tagging |

Genetic studies |

Comment [A28]: Please provide general details of the number of turtles tagged over how many years, mention any remarkable returns / recaptures. Indicate whether these tagging studies have helped to elucidate migration routes. Please refer to any relevant publications, and indicate plans for future work in this area.

Comment [A29]: Please give details of sampling locations, results and plans for future work in this area.

Satellite tracking |

Other (list and provide details):

None of the above

Comment [A30]: Please indicate number of years studies have been undertaken, and give details of species tracked and results obtained to date. Please refer to any relevant publications, and indicate plans for future work in this area.

3.1.5 Have studies been carried out on marine turtle population dynamics and survival rates (e.g. including studies into the survival rates of incidentally caught and released turtles)?

YES NO ?

Please give details |

Comment [A31]: Please indicate the nature of the studies undertaken, time frames, main conclusions, and references to any published or unpublished reports.

3.1.6 Has research been conducted on the frequency and pathology of diseases in marine turtles?

YES NO ?

Please give details |

Comment [A32]: Please indicate the nature of the studies undertaken, time frames, main conclusions, and references to any published or unpublished reports.

3.1.7 Is the use of traditional ecological knowledge in research studies being promoted?

YES NO ?

If so, how? |

Comment [A33]: Please cite any published or unpublished reports, and describe in more detail how traditional knowledge, including that of fishing communities, is being used in participatory research. Please comment on whether (and how often) your country shares traditional ecological knowledge with other Signatory States.

3.2 Collaborative research and monitoring

3.2.1 List any regional or sub-regional action plans in which your country is participating, that identify priority research and monitoring needs |

Use the text box to elaborate on your response.

Comment [A34]: Sub-regional frameworks, projects or other bilateral/multilateral arrangements that identify priority research and monitoring needs should be mentioned explicitly and briefly described. Examples might include: SEAFDEC, TIHPA, SEASTAR2000, IUCN Western Indian Ocean Action Plan etc.

3.2.2 On which of the following themes have **collaborative** studies and monitoring been conducted? Give brief details for each. Leave blank if the studies/monitoring do not involve **international** collaboration.

Genetic identity

Conservation status

Migrations

Other biological and ecological aspects

Other (describe)

Comment [A35]: This question is meant to elicit information about studies and monitoring conducted with other countries, rather than domestic research conducted independently.

Responses should focus on work that depends on the formation of unique partnerships in order to achieve a particular objective, and should describe the nature of the collaboration (e.g. who the other parties were and what work they did together). Supporting references, if available, would be helpful.

3.3 Data analysis and applied research

3.3.1 List, in order of priority, the marine turtle populations in your country in need of conservation actions, and indicate their population trends.

Comment [A36]: Please identify clearly the turtle species/populations in question, indicate their trends (with references to any published studies, if possible), and order them in terms of priority for conservation action.

3.3.2 Are research and monitoring activities, such as those described above in section 3.1, periodically reviewed and evaluated for their efficacy?

YES NO ?

Comment [A37]: Please provide approximate dates when these reviews have been conducted, and indicate in general terms how the research and monitoring activities were adjusted in the light of the reviews' findings.

3.3.3 Describe how research results are being applied to improve management practices and mitigation of threats (in relation to the priority populations identified in 3.3.1, among others).

Comment [A38]: By way of example, research results might have stimulated a change in hatchery management practices, shifted priorities/emphasis for mitigation of certain kinds of threats, highlighted urgent issues relating to habitat loss etc.

3.4 Information exchange

3.4.1 Has your country undertaken any initiatives (nationally or through collaboration with other Range States) to standardise methods and levels of data collection?

YES NO ?

If yes, please give details of the agreed protocol(s).

Comment [A39]: Protocols might relate *inter alia* to monitoring of nesting beaches, feeding ground studies, genetic sampling, and collection of mortality data etc. Other areas of cooperation on this issue might include fishing gear and effort terminology, database development, estimation of sea turtle interaction rates, and time and area classification etc.

3.4.2 To what extent does your country exchange scientific and technical information and expertise with other Range States?

OFTEN (SYSTEMATICALLY) OCCASIONALLY RARELY NEVER

Signatory States are invited to send any examples of standard methods of data collection to the Secretariat, with a view to sharing them on the IOSEA web site.

3.4.3 If your country shares such information and expertise with other Range States, what mechanisms have commonly been used for this purpose? Comment on any positive benefits/outcomes achieved through these interactions.

Comment [A40]: Such information might include details of ongoing research, new findings, innovative techniques, unusual levels of mortality, potential threats etc.

Comment [A41]: Examples might include publications, international meetings / workshops, presentation of practical research etc. The intent of this question is to elicit responses about effective mechanisms for promoting exchange of scientific and technical information, and the results of such exchanges.

3.4.4 Does your country compile data on marine turtle populations of a regional interest?

YES NO ?

Please give details.

Comment [A42]: Examples might include national databases, mapping systems, information on migration and tagging etc that is held in one country, but might be of regional interest. More detailed descriptions of what is available might serve to prompt inquiries from other Signatories.

OBJECTIVE IV: INCREASE PUBLIC AWARENESS OF THE THREATS TO MARINE TURTLES AND THEIR HABITATS, AND ENHANCE PUBLIC PARTICIPATION IN CONSERVATION ACTIVITIES

4.1 Public education, awareness and information programmes

4.1.1 Describe the educational materials, including mass media information programmes, which your country has collected, developed and/or disseminated.

Comment [A43]: Examples might include brochures, booklets, posters, newsletters, radio and TV shows, video documentaries etc. Please provide a descriptive inventory (e.g. titles and/or brief explanation of content, years of production or use, frequency of publication / airing, language versions, website addresses etc. - where applicable).

4.1.2 Which of the following groups have been the targets of these focused education and awareness programmes described in above in section 4.1.1?

- Policy makers
- Fishing industry
- Local/Fishing communities
- Indigenous groups
- Tourists
- Media
- Teachers
- Students
- Military, Navy, Police
- Scientists
- Other (describe):
- None of the above

Comment generally on their efficacy, and indicate potential for specialised materials, such as videos, to be used or adapted for use in other countries. Indicate additional needs and plans (e.g. for updates of existing material, wider geographic distribution, new materials etc.)

Please give further details:

Comment [A44]: Please provide additional information about the timing of these specialised interventions, report on any noteworthy successes, and indicate needs/future plans in this regard.

4.1.3 Have any community learning / information centres been established?

- YES NO

Please give details:

Comment [A45]: For example, indicate whether they are staffed full- or part-time, or only seasonally. Describe the extent to which these centres are frequented by the public, and their general impact, in terms of changes in peoples' behaviour in the vicinity of nesting beaches.

4.2 Alternative livelihood opportunities

Describe initiatives undertaken to identify and facilitate alternative livelihoods (including income-generating activities) for local communities.

Comment [A46]: Please provide adequate detail, including information on time frames, cost, challenges faced/overcome, overall effectiveness, potential for replication elsewhere, and future plans.

4.3 Public participation

4.3.1 Describe initiatives undertaken by your country to involve stakeholders and **local communities**, in particular, in the planning and implementation of marine turtle conservation programmes.

Comment [A47]: Please provide adequate detail, including information on challenges faced/overcome, overall effectiveness, potential for replication elsewhere, and any future plans in this regard.

Mention in particular the engagement of fishing industries and fishing communities.

4.3.2 Describe what incentives have been used to encourage public participation and indicate their efficacy.

Comment [A48]: Incentives might include, for example, issuing T-shirts and caps in exchange for tag returns/injured turtles, public acknowledgement of volunteer work, certificates, educational booklets, safe-drinking water, contracts for nest protection etc.

4.3.3 Describe initiatives undertaken to involve and encourage the cooperation of **Government institutions, NGOs** and the **private sector** in marine turtle conservation programmes.

Please provide detail on time frames, annual costs, challenges faced/overcome, effectiveness, funding sources and potential for replication elsewhere.

Comment [A49]: Initiatives might include development of national networks, formation of steering committees, involvement in workshops, sponsorship of events etc.

OBJECTIVE V: ENHANCE NATIONAL, REGIONAL AND INTERNATIONAL COOPERATION

5.1 Collaboration with, and assistance to, signatory and non-signatory States

5.1.1 Has your country undertaken a national review of its compliance with Convention on International Trade in Endangered Species (CITES) obligations in relation to marine turtles?

YES NO ?

If yes, please elaborate briefly.

Comment [A50]: Please provide references to any published reports (e.g. already prepared for CITES purposes) that give a more ample explanation.

Please provide detail on time frames, annual costs, challenges faced/overcome, effectiveness, funding sources and potential for replication elsewhere.

5.1.2 Does your country have, or participate/cooperate in, CITES training programmes for relevant authorities?

YES NO ?

If yes, please provide details of these training programmes.

Comment [A51]: Please provide references to any published reports (e.g. already prepared for CITES purposes) that give a more ample explanation.

5.1.3 Does your country have in place mechanisms to identify **international** illegal trade routes (for marine turtle products etc.) and to cooperate with other States to prevent/deter/eliminate illegal trade?

YES NO ?

Please give details.

Comment [A52]: Please give details of particularly successful interventions and prosecutions; and/or mention any difficulties experienced that impede progress in this area. Please provide references to any published reports (e.g. already prepared for CITES purposes) that give a more ample explanation.

5.1.4 Which international compliance and trade issues has your country raised for discussion (e.g. through the MoU Secretariat, at meetings of Signatory States etc.)?

5.1.5 Describe measures in place to prevent, deter and eliminate **domestic** illegal trade in marine turtle products.

Comment [A53]: For example, domestic measures might include legislation, monitoring, interagency collaboration, identification of enforcement gaps, training, education / awareness etc.

5.2 Development and implementation of national action plans

5.2.1 Has your country developed a set of key management measures that have been or could be used as a basis for more specific action plans at a **national** level?

YES NO ?

If yes, please elaborate.

Comment [A54]: For example, such measures might be included in existing national action / recovery / management plans etc. Please provide general information about these plans (title, geographic scope, year of introduction etc.) and indicate whether or not they are subject to regular review.

5.2.2 Please tick the boxes at left to indicate those *local* management issues for which you consider *international* cooperation is needed to achieve progress; then rate the extent to which you consider international cooperation is necessary. (Leave tick boxes blank if you do not consider any particular issue to require international cooperation.)

HOW NECESSARY IS INTERNATIONAL COOPERATION?

- | | | | |
|---|------------------------------------|------------------------------------|---------------------------------------|
| <input type="checkbox"/> Illegal fishing in territorial waters | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Incidental capture by foreign fleets | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Enforcement/patrolling of territorial waters | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Hunting/harvest by neighboring countries | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Poaching, illegal trade in turtle products | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Gear technology | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Oil spills, pollution, marine debris | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Training / capacity-building | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Alternative livelihood development | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Identification of turtle populations | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Identification of migration routes | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Tagging / satellite tracking | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Habitat studies | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |
| <input type="checkbox"/> Genetics studies | <input type="checkbox"/> ESSENTIAL | <input type="checkbox"/> IMPORTANT | <input type="checkbox"/> ONLY LIMITED |

Use the text box to list and rank any other local management issues for which international cooperation is needed to achieve progress.

5.3 Cooperation and information exchange

5.3.1 Identify existing frameworks/organisations that are, or could be, useful mechanisms for cooperating in marine turtle conservation at the sub-regional level. Please comment on the strengths of these instruments, their capacity to take on a broader coordinating role, and any efforts your country has made to enhance their role in turtle conservation.

Comment [A55]: Some examples might include ASEAN-SEAFDEC, ROPME, Nairobi Convention-IOSEA Marine Turtle Task Force in the Western Indian Ocean.

5.3.2 Has your country developed, or is it participating in, any networks for cooperative management of shared populations?

YES NO ?

If yes, give details.

Comment [A56]: These might include the establishment of transboundary marine protected areas.

5.3.3 What steps has your country taken to encourage Regional Fishery Bodies (RFBs) to adopt marine turtle conservation measures within Exclusive Economic Zones (EEZs) and on the high seas?

5.4 Capacity-building

5.4.1 Describe your country's needs, in terms of human resources, knowledge and facilities, in order to build capacity to strengthen marine turtle conservation measures.

5.4.2 Describe any training provided in marine turtle conservation and management techniques (e.g. workshops held, training manuals produced etc.).

5.4.3 In relation to capacity-building, describe any partnerships developed with universities, research institutions, training bodies and other relevant organisations.

Comment [A57]: Where specific needs are identified (e.g. skilled personnel, specialised training, facilities, field equipment etc.) please indicate how marine turtle conservation activities are presently impaired on account of their unavailability (e.g. inability to carry out regular surveys, to conduct certain types of research, to monitor certain parts of the range etc.) This information may be useful for compiling a general picture of deficiencies and resource needs that could be presented to potential programme sponsors.

Comment [A58]: Please provide sufficient detail (mentioning time frames, numbers trained, frequency of repetition, titles of publications produced etc.) to give a clearer picture of their efficacy, possible need for more activities, and potential synergies with other programmes, which could avoid unnecessary duplication.

Please comment if any of these programmes have been coordinated nationally or regionally; and mention plans for future training workshops and development of training materials.

Comment [A59]: Please describe these partnerships in detail, particularly if they bring any innovative approaches to turtle conservation and management that might be of interest or relevance to other Signatory States, as models of best practice.

5.5 Enforcement of conservation legislation

5.5.1 Describe the effectiveness of national policies and laws concerning the conservation of marine turtles and their habitats, in terms of their practical application and enforcement. |

Comment [A60]: Use the text box to list the relevant policies and laws. Comment on their effectiveness and any difficulties encountered in their application.

5.5.2 Has your country conducted a review of policies and laws to address any gaps, inconsistencies or impediments in relation to marine turtle conservation? If not, indicate any obstacles encountered in this regard and when this review is expected to be done.

YES NO ?

Please give details. |

Comment [A61]: Please describe the nature of the review being, or having been, undertaken (e.g. identify the legislation or regulation in question; give timeframes for the initiation and expected or actual completion of the review; and possibly indicate whether there is a specific reason that necessitated the review).

5.5.3 From the standpoint of law enforcement, has your country experienced any difficulties receiving cooperation to ensure compatible application of laws across and between jurisdictions? |

YES NO ?

Please give details

Comment [A62]: The question may refer to the application of laws across jurisdictions within a country (e.g. across states/ provinces or different agencies with overlapping legislative authority) or may refer to the application of measures from one country to another.

OBJECTIVE VI: PROMOTE IMPLEMENTATION OF THE MOU, INCLUDING THE CMP

6.1 IOSEA Marine Turtle MoU membership and activities

6.1.1 What has your country done to encourage other States to sign the IOSEA MoU? |

Comment [A63]: This could include presentations, bi-lateral meetings, organisation of sub-regional workshops that presented opportunities to raise awareness of the MoU, facilitating attendance of delegates to IOSEA meetings etc.

6.1.2 Is your country **currently** favourable to amending the MoU to make it a legally binding instrument?

YES NO NO VIEW

6.1.3 Would your country be favourable, in a **longer time** horizon, to amending the MoU to make it a legally-binding instrument?

YES NO NO VIEW Use the text box to elaborate on your response, if necessary.

6.2 Secretariat and Advisory Committee

What efforts has your country made, or can it make, to secure funding to support the core operations of the IOSEA MoU (Secretariat and Advisory Committee, and related activities)?

Comment [A64]: Describe, in general terms, actual or potential (organisational) sources of annual funding.

6.3 Resources to support implementation of the MoU

6.3.1 What funding has your country mobilised for domestic implementation of marine turtle conservation activities related to the IOSEA Marine Turtle MoU?

Comment [A65]: Please mention the funding agencies involved at various levels (national, state/provincial etc).

6.3.2 From your country's perspective, which conservation and management activities, and/or which particular sites and locations, ought to be among the highest priorities for action (list up to 10 activities from the CMP). Please specify whether these activities should be taken domestically or in partnership with other States in the region.

Comment [A66]: Include, where appropriate, more precise information on the scope of the activity (domestic or international), other actors that may need to be involved, and approximate time frames within which the programme of work, would ideally be conducted. Refer to the IOSEA website for details of the Conservation and Management Plan.

6.3.3 Has your country tried to solicit funds from, or seek partnerships with, other Governments, major donor organisations, industry, private sector, foundations or NGOs for marine turtle conservation activities?

YES NO If yes, give details of the approaches made (both successful and unsuccessful).

Comment [A67]: Please give details of successful approaches made (including approximate amounts, time frames) etc. Mention also unsuccessful attempts (e.g. projects submitted to GEF or other major donors that were rejected), so that lessons might be learned from these experiences.

6.3.4 Describe any initiatives made to explore the use of economic instruments for the conservation of marine turtles and their habitats.

Comment [A68]: Examples might include revenue generation through eco-tourism, soft loans, taxation etc. Please comment on the cost effectiveness of such initiatives, e.g.: the amount of revenue generated, numbers of people taking part, benefits to the local community, as well as mitigating factors such as possible increased disturbance, degradation of habitat etc.)

6.4 Coordination among government sectors

6.4.1 Has your country designated a lead agency responsible for coordinating national marine turtle conservation and management policy? If not, when is this information expected to be communicated to the IOSEA MoU Secretariat? _____

YES NO Please give details.

Comment [A69]: Please consult the IOSEA website (under Membership/Focal Points) for the latest information made available to the Secretariat.

6.4.2 Are the roles and responsibilities of all government agencies related to the conservation and management of marine turtles and their habitats clearly defined?

YES NO ? Use the text box to elaborate

6.4.3 Has your country ever conducted a review of agency roles and responsibilities? If so, when, and what was the general outcome? If not, is such a review planned and when? _____

YES NO ? Use the text box to elaborate.

Comment [A70]: This question seeks to ascertain whether Signatories have made a serious examination of which agencies have a role to play in marine turtle conservation, either directly or indirectly, and which therefore should be apprised of the IOSEA MoU and its provisions.

If no internal review of interagency roles and responsibilities has been or will be undertaken, please elaborate if only to indicate that the necessary arrangements are already clear and not in need of further review.

Other remarks

Please provide any comments/suggestions to improve the present reporting format.

Additional information / remarks:

ANNEX 1: SPECIES/HABITAT AND SITE/THREAT DATA

PLEASE COMPLETE A SEPARATE SHEET FOR EACH SITE (COPY and APPEND)

Indicate below (with an "X") the species of marine turtle corresponding to each habitat type (i.e. nesting beach, feeding area or developmental habitat). If there is any doubt about the species occurring at a particular known habitat, indicate uncertainty by marking "X" in the "unknown" box. If a particular species is known to occur at the site, but it can not be attributed to a particular habitat type, use the 'Unclassified' category.

If known, give a subjective indication of the importance (High, Medium, Low) of a given site for nesting, feeding and development - relative to other sites within the same country. Leave blank if unknown.

Abbreviations used in the table:

Loggerhead *Caretta caretta* (CC); Olive Ridley *Lepidochelys olivacea* (LO); Green *Chelonia mydas* (CM)
 Hawksbill *Eretmochelys imbricata* (EI); Leatherback *Dermochelys coriacea* (DC); Flatback *Natator depressus* (ND)

Name of site/area:

Geographic Coordinates	Deg.	Min.	Sec.	Geographic Coordinates	Deg.	Min.	Sec.
Latitude: North <input type="checkbox"/> South <input type="checkbox"/>				Longitude: East <input type="checkbox"/> West <input type="checkbox"/>			

Habitat Type	Relative Importance			Species						
	High	Med.	Low	CC	LO	CM	EI	DC	ND	Unknown
Nesting										
Feeding										
Developmental										
Unclassified										

Describe the nature and intensity of exploitation and threats to marine turtles at this site:

Threats at this site/area (Mark with an 'X', as appropriate)	Unknown	None	Low	Medium	High
Exploitation of nesting females					
Exploitation of live animals at sea					
Egg collection					
Incidental capture in fisheries					
Boat strikes					
Plastics (at sea)					
Industrial effluent					
Inshore oil pollution					
Agricultural/urban/tourism development					
Artificial lighting					
Coastal erosion					
Vehicles					
Sand mining					
Natural threats/predation					
Other (type in):					

What measures have been introduced to remove threats to marine turtles at this particular site?

- Monitoring / protection programmes
- Education / awareness programmes
- Egg relocation / hatcheries
- Fishing gear modification requirements
- Designation/management of protected areas, sanctuaries, exclusion zones etc.
- Regulations on building location / design
- Regulations on artificial lighting
- Vehicle / access restrictions
- Removal of debris / beach clean-up
- Predator control

Other 1 (list)

Other 2 (list)

Please give further details, as appropriate/necessary.