

**1. World Heritage Property Data**

**1.1 - Name of World Heritage Property**

The Sundarbans

**1.2 - World Heritage Property Details**

Bangladesh Asia and the Pacific natural Forests Marine & coastal 798 1997


**1.3 - Geographic Information Table**

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Sundarbans West Wildlife Sanctuary	0 / 0	71500	?	71500	1997
Sundarbans South Sanctuary	0 / 0	37000	?	37000	1997
Sundarbans East Sanctuary	0 / 0	31000	?	31000	1997
<b>Total (ha)</b>		<b>139500</b>	<b>0</b>	<b>139500</b>	

**Comment**

Coordinates Sundarban East Wildlife Sanctuary 21degree50min/89deg40min Coordinates Sundarban West Wildlife Sanctuary 21degree35min/89deg00min Coordinates Sundarban South Wildlife Sanctuary 21degree35min/89deg20min Area of Sundarban East Wildlife Sanctuary 31226ha Area of Sundarban West Wildlife Sanctuary 71502ha Area of Sundarban South Wildlife Sanctuary 36970ha Inscription year 1997 for all 3 sanctuaries

**1.4 - Map(s)**

Title	Date	Link to source
Map showing the components of the inscribed property	31/12/1986	

**1.5 - Governmental Institution Responsible for the Property**

**Comment**

Forest Department, Ministry of Environment and Forest, Government of Bangladesh

**1.6 - Property Manager / Coordinator, Local Institution / Agency**

• Tapon Kumar Dey

Conservator of Forest, Wildlife & Nature Conservation Circle

**Comment**

Imran Ahmed Deputy Conservator of Forests Forest Management Wing Address: Ban Bhaban Sher e Bangla Nagar Agargaon Dhaka-1207 Bangladesh Telephone: +88 017 11445247 Email: imranforest@live.com imranforest@yahoo.com imranforest@aol.com

**1.7 - Web Address of the Property (if existing)**

1. [1001wonders.org](http://1001wonders.org) : visit this site in [panophotographies - 360 x 180 degree images](#)

**Comment**

<http://www.moef.gov.bd> <http://www.bforest.gov.bd>

**1.8 - Other designations / Conventions under which the property is protected (if applicable)**

**Comment**

The Sundarbans has been declared as 560th Ramsar Site in 1992

**2. Statement of Outstanding Universal Value**

**2.1 - Statement of Outstanding Universal Value / Statement of Significance**

**Comment**

Has been submitted

**2.2 - The criteria (2005 revised version) under which the property was inscribed**

(ix)(x)

**2.3 - Attributes expressing the Outstanding Universal Value per criterion**

The largest single tract mangrove forests in the world, which supports an exceptional biodiversity with a wide range of flora and fauna, including the Bengal Tiger and provides a significant example of on-going ecological processes (monsoon rains, flooding, delta formation, tidal influence and plant colonization).

**2.4 - If needed, please provide details of why the Statement of Outstanding Universal Value should be revised**

**2.5 - Comments, conclusions and / or recommendations related to Statement of Outstanding Universal Value**

**3. Factors Affecting the Property**

**3.14. Other factor(s)**

**3.14.1 - Other factor(s)**

3.15. Factors Summary Table

3.15.1 - Factors summary table

Name	Impact					Origin
<b>3.1</b>	<b>Buildings and Development</b>					
3.1.3 Industrial areas		⊖		🚩		🔄
3.1.5 Interpretative and visitation facilities	⊕		🚩		🔄	🔄
<b>3.2</b>	<b>Transportation Infrastructure</b>					
3.2.3 Marine transport infrastructure		⊖	🚩		🔄	🔄
3.2.4 Effects arising from use of transportation infrastructure		⊖		🚩	🔄	
<b>3.3</b>	<b>Services Infrastructures</b>					
3.3.4 Localised utilities	⊕	⊖		🚩	🔄	
<b>3.4</b>	<b>Pollution</b>					
3.4.1 Pollution of marine waters		⊖	🚩	🚩		🔄
3.4.3 Surface water pollution		⊖	🚩	🚩	🔄	🔄
3.4.4 Air pollution		⊖	🚩	🚩		🔄
3.4.5 Solid waste		⊖	🚩	🚩	🔄	🔄
<b>3.5</b>	<b>Biological resource use/modification</b>					
3.5.1 Fishing/collecting aquatic resources		⊖	🚩	🚩	🔄	🔄
3.5.2 Aquaculture		⊖	🚩			🔄
3.5.10 Forestry /wood production		⊖	🚩		🔄	
<b>3.7</b>	<b>Local conditions affecting physical fabric</b>					
3.7.1 Wind		⊖	🚩	🚩	🔄	🔄
3.7.2 Relative humidity	⊕	⊖	🚩	🚩	🔄	🔄
3.7.3 Temperature	⊕	⊖	🚩	🚩	🔄	🔄
3.7.4 Radiation/light	⊕	⊖		🚩	🔄	
3.7.5 Dust		⊖	🚩			🔄
3.7.7 Pests		⊖	🚩	🚩	🔄	🔄
3.7.8 Micro-organisms	⊕			🚩	🔄	
<b>3.8</b>	<b>Social/cultural uses of heritage</b>					
3.8.1 Ritual / spiritual / religious and associative uses	⊕	⊖	🚩	🚩	🔄	🔄
3.8.2 Society's valuing of heritage	⊕		🚩			🔄
3.8.6 Impacts of tourism / visitor / recreation	⊕	⊖	🚩	🚩	🔄	🔄
<b>3.9</b>	<b>Other human activities</b>					
3.9.1 Illegal activities		⊖	🚩		🔄	🔄
3.9.2 Deliberate destruction of heritage		⊖	🚩		🔄	
3.9.5 Terrorism		⊖	🚩		🔄	🔄
<b>3.10</b>	<b>Climate change and severe weather events</b>					
3.10.1 Storms		⊖	🚩	🚩	🔄	🔄
3.10.2 Flooding		⊖	🚩	🚩	🔄	🔄
3.10.5 Changes to oceanic waters		⊖	🚩	🚩	🔄	🔄
3.10.6 Temperature change		⊖	🚩	🚩	🔄	🔄
3.10.7 Other climate change impacts		⊖	🚩	🚩	🔄	🔄
<b>3.11</b>	<b>Sudden ecological or geological events</b>					
3.11.3 Tsunami/tidal wave		⊖		🚩	🔄	🔄
3.11.5 Erosion and siltation/ deposition		⊖	🚩	🚩	🔄	🔄
<b>3.12</b>	<b>Invasive/alien species or hyper-abundant species</b>					
3.12.1 Translocated species		⊖	🚩	🚩	🔄	🔄

		Name	Impact				Origin
3.12.4 Invasive / alien marine species							
3.13		<b>Management and institutional factors</b>					
3.13.1 Low impact research / monitoring activities							
3.13.3 Management activities							
<b>Legend</b>	Current	Potential	Negative	Positive	Inside	Outside	

### 3.16. Assessment of current negative factors

#### 3.16.1 - Assessment of current negative factors

	Spatial scale	Temporal scale	Impact	Management response	Trend
3.2 Transportation Infrastructure					
3.2.3 Marine transport infrastructure	restricted	intermittent or sporadic	minor	low capacity	static
3.4 Pollution					
3.4.1 Pollution of marine waters	localised	intermittent or sporadic	minor	no capacity and / or resources	static
3.4.3 Surface water pollution	localised	one off or rare	minor	no capacity and / or resources	increasing
3.4.4 Air pollution	extensive	intermittent or sporadic	insignificant	no capacity and / or resources	increasing
3.4.5 Solid waste	localised	intermittent or sporadic	minor	no capacity and / or resources	increasing
3.5 Biological resource use/modification					
3.5.1 Fishing/collecting aquatic resources	localised	frequent	significant	medium capacity	static
3.5.2 Aquaculture	restricted	intermittent or sporadic	insignificant	high capacity	decreasing
3.5.10 Forestry /wood production	localised	intermittent or sporadic	minor	medium capacity	increasing
3.7 Local conditions affecting physical fabric					
3.7.1 Wind	extensive	intermittent or sporadic	significant	low capacity	increasing
3.7.2 Relative humidity	extensive	intermittent or sporadic	insignificant	no capacity and / or resources	static
3.7.3 Temperature	extensive	one off or rare	minor	no capacity and / or resources	increasing
3.7.5 Dust	localised	intermittent or sporadic	minor	medium capacity	static
3.7.7 Pests	extensive	frequent	significant	low capacity	static
3.8 Social/cultural uses of heritage					
3.8.1 Ritual / spiritual / religious and associative uses	localised	frequent	significant	low capacity	static
3.8.6 Impacts of tourism / visitor / recreation	restricted	on-going	minor	medium capacity	increasing
3.9 Other human activities					
3.9.1 Illegal activities	localised	intermittent or sporadic	minor	medium capacity	decreasing
3.9.2 Deliberate destruction of heritage	restricted	one off or rare	minor	low capacity	static
3.9.5 Terrorism	localised	intermittent or sporadic	minor	low capacity	increasing
3.10 Climate change and severe weather events					
3.10.1 Storms	widespread	frequent	catastrophic	low capacity	increasing
3.10.2 Flooding	localised	one off or rare	minor	low capacity	static
3.10.5 Changes to oceanic waters	extensive	frequent	significant	low capacity	increasing
3.10.6 Temperature change	localised	frequent	significant	low capacity	increasing
3.10.7 Other climate change impacts	localised	intermittent or sporadic	minor	low capacity	increasing
3.11 Sudden ecological or geological events					
3.11.5 Erosion and siltation/ deposition	extensive	frequent	significant	no capacity and / or resources	increasing
3.12 Invasive/alien species or hyper-abundant species					
3.12.1 Translocated species	localised	one off or rare	insignificant	no capacity and / or resources	increasing
3.12.4 Invasive / alien marine species	restricted	intermittent or sporadic	minor	no capacity and / or resources	increasing

**3.17. Comments, conclusions and / or recommendations related to factors affecting the property**

**3.17.1 - Comments**

No comment

**4. Protection, Management and Monitoring of the Property**

**4.1. Boundaries and Buffer Zones**

**4.1.1 - Buffer zone status**

There is no buffer zone, and it is not needed

**4.1.2 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?**

The boundaries of the World Heritage property are **adequate** to maintain the property's Outstanding Universal Value

**4.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?**

The property had **no buffer zone** at the time of its inscription on the World Heritage List

**4.1.4 - Are the boundaries of the World Heritage property known?**

The boundaries of the World Heritage property are known by both the management authority and local residents / communities / landowners.

**4.1.5 - Are the buffer zones of the World Heritage property known?**

The property had **no buffer zone** at the time of its inscription on the World Heritage List

**4.1.6 - Comments, conclusions and / or recommendations related to boundaries and buffer zones of the World Heritage property**

Existing WHS area is only about 24% of the Sundarbans. It may be extended by declaring new Protected Area. Buffer zone is not needed, an identified impact zone is surrounding the property.

**4.2. Protective Measures**

**4.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and / or traditional)**

Declared as Reserved Forests under Section 34 of the Indian Forest Act, 1878 (vii of 1878) vide notification dated 23<sup>rd</sup> January 1879. Total area of Bangladesh part of Sundarbans is 580000 hectares of which 139699.496 ha (inclusive of 48670 ha water area) was declared as wildlife sanctuary vide MOEF's notification no S-3/7/96/147 dated 6.04.96 under Article 23 (1) (2) of Bangladesh Wildlife Preservation Order 1973 amended by Bangladesh Wildlife (Preservation) (Amendment) Act, 1974.

**Comment**

Total area of Bangladesh part of Sundarbans is 601700 hectares of which 139699.496 ha was declared as WHS. Actually boundary is not changed but at the time of inscription information was wrong.

**4.2.2 - Is the legal framework (i.e. legislation and / or regulation) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?**

The legal framework for the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the World Heritage property is **inadequate**

**4.2.3 - Is the legal framework (i.e. legislation and / or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?**

The property had **no buffer zone** at the time of inscription on the World Heritage List

**4.2.4 - Is the legal framework (i.e. legislation and / or regulation) adequate in the area surrounding the World Heritage property and buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?**

There is **no legal framework** for controlling use and activities in the area surrounding the World Heritage property and the buffer zone

**4.2.5 - Can the legislative framework (i.e. legislation and / or regulation) be enforced?**

There are **major deficiencies** in capacity/resources to enforce legislation and / or regulation in the World Heritage property


**4.2.6 - Comments, conclusions and / or recommendations related to protective measures**

no comments

**4.3. Management System / Management Plan**

**4.3.1 - Management System**

**4.3.2 - Management Documents**

Title	Status	Available	Date	Link to source
The Sundarbans Wildlife Management Plan: Conservation in the Bangladesh Coastal Zone	N/A	Available	01/00/1983	

**Comment**

Integrated Management Plan for Sundarban mangrove forest framed in 1998-99, valid upto 2010. A new Integrated Resource management Plan is being developed. Bangladesh Tiger Action Plan 2009 exists.

**4.3.3 - How well do the various levels of administration (i.e. national / federal; regional /**

**provincial / state; local / municipal etc.) coordinate in the management of the World Heritage Property ?**

There is coordination between the range of administrative bodies / levels involved in the management of the property but it could be improved

**4.3.4 - Is the management system / plan adequate to maintain the property's Outstanding Universal Value ?**

The management system / plan is **not adequate** to maintain the property's Outstanding Universal Value

**4.3.5 - Is the management system being implemented?**

The management system is **only partially** being implemented

**4.3.6 - Is there an annual work / action plan and is it being implemented?**

An annual work / action plan exists but **few of the activities** are being implemented

**4.3.7 - Please rate the cooperation / relationship with World Heritage property managers / coordinators / staff of the following**

Local communities / residents	Fair
Local / Municipal authorities	Not applicable
Indigenous peoples	Not applicable
Landowners	Not applicable
Visitors	Fair
Researchers	Fair
Tourism industry	Fair
Industry	Not applicable

**4.3.8 - If present, do local communities resident in or near the World Heritage property and / or buffer zone have input in management decisions that maintain the Outstanding Universal Value?**

Local communities **directly contribute** to some decisions relating to management

**4.3.9 - If present, do indigenous peoples resident in or regularly using the World Heritage property and / or buffer zone have input in management decisions that maintain the Outstanding Universal Value?**

**No indigenous peoples** are resident in or regularly using the World Heritage property and / or buffer zone

**4.3.10 - Is there cooperation with industry (i.e. forestry, mining, agriculture, etc.) regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone?**

There is **little or no contact** with industry regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone

**4.3.11 - Comments, conclusions and / or recommendations related to human resources, expertise and training**

no comment


**4.3.12 - Please report any significant changes in the legal status and / or contractual / traditional protective measures and management arrangements for the World Heritage property since inscription or the last Periodic report**

**4.4. Financial and Human Resources**

**4.4.1 - Costs related to conservation, based on the average of last five years (relative percentage of the funding sources)**

Multilateral funding (GEF, World Bank, etc)	0%
International donations (NGO's, foundations, etc)	1%
Governmental (National / Federal)	98%
Governmental (Regional / Provincial / State)	0%
Governmental (Local / Municipal)	0%
In country donations (NGO's, foundations, etc)	0%
Individual visitor charges (e.g. entry, parking, camping fees, etc.)	0%
Commercial operator payments (e.g. filming permit, concessions, etc.)	0%
Other grants	1%

**4.4.2 - International Assistance received from the World Heritage Fund (USD)**

Title	Year	Amount	Link to source
Re-establishing essential management capacity in the Sundarbans WH site following the passage of cyclone Sidr	2008	75000.00	
<b>Total</b>		75000	

**4.4.3 - Is the current budget sufficient to manage the World Heritage property effectively?**

The available budget is **inadequate** for basic management needs and presents a serious constraint to the capacity to manage

**4.4.4 - Are the existing sources of funding secure and likely to remain so?**

The existing sources of funding **are secure** in the medium-term and planning is underway to secure funding in the long-term

**4.4.5 - Does the World Heritage property provide economic benefits to local communities (e.g. income, employment)?**

**Potential** economic benefits are recognised and plans to realise these are being developed

**4.4.6 - Are available resources such as equipment, facilities and infrastructure sufficient to meet management needs?**

There are **some** equipment and facilities but overall these are **inadequate**

**4.4.7 - Are resources such as equipment, facilities and infrastructure adequately maintained?**

There is some **ad hoc** maintenance of equipment and facilities



**4.4.8 - Comments, conclusion, and / or recommendations related to finance and infrastructure**

Trend analysis of genetic resources can be done periodically, at least a base line survey is needed. Hence the financial allocations is recommended.

**4.4.9 - Distribution of employees involved in managing the World Heritage property (% of total)**

Full-time	100%
Part-time	0%

**4.4.10 - Distribution of employees involved in managing the World Heritage property (% of total)**

Permanent	100%
Seasonal	0%

**4.4.11 - Distribution of employees involved in managing the World Heritage property (% of total)**

Paid	100%
Volunteer	0%

**4.4.12 - Are available human resources adequate to manage the World Heritage property?**

Human resources are **inadequate** for management needs

**4.4.13 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines**

Research and monitoring	Fair
Promotion	Fair
Community outreach	Poor
Interpretation	Poor
Education	Poor
Visitor management	Fair
Conservation	Fair
Administration	Fair
Risk preparedness	Poor
Tourism	Fair
Enforcement (custodians, police)	Fair

**4.4.14 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines**

Research and monitoring	Low
Promotion	Low
Community outreach	Low
Interpretation	Low
Education	Low
Visitor management	Medium
Conservation	Medium
Administration	Medium
Risk preparedness	Low
Tourism	Medium
Enforcement (custodians, police)	Medium

**4.4.15 - Do the management and conservation programmes at the World Heritage property help develop local expertise?**

A capacity development plan or programme is drafted or in place, but is **not being implemented**

**4.4.16 - Comments, conclusions and / or recommendations related to human resources, expertise and training**

Adequate human resource development program can be launched.

**4.5. Scientific Studies and Research Projects**

**4.5.1 - Is there adequate knowledge (scientific or traditional) about the values of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained?**

Knowledge about the values of the World Heritage property is **sufficient** for most key areas **but there are gaps**

**4.5.2 - Is there a planned programme of research at the property which is directed towards management needs and / or improving understanding of Outstanding Universal Value?**

There is a **small amount** of research, but it is not planned

**4.5.3 - Are results from research programmes disseminated?**

Research results **are shared with local partners** but there is no active outreach to national or international agencies

**4.5.4 - Please provide details (i.e. authors, title, and web link) of papers published about the World Heritage property since the last Periodic Report**

**4.5.5 - Comments, conclusions and / or recommendations related to scientific studies and research projects**

Scientific research on changes in geomorphology of the world heritage site should be carried out.

**4.6. Education, Information and Awareness Building**

**4.6.1 - At how many locations is the World Heritage emblem displayed at the property?**

In **one location and easily visible** to visitors

**4.6.2 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups**

Local communities / residents	Poor
Local / Municipal authorities within or adjacent to the property	Average
Local Indigenous peoples	Not applicable
Local landowners	Not applicable
Visitors	Average
Tourism industry	Average

Local businesses and industries	Not applicable
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**4.6.3 - Is there a planned education and awareness programme linked to the values and management of the World Heritage property?**

There is **no education and awareness programme**, despite an identified need

**4.6.4 - What role, if any, has designation as a World Heritage property played with respect to education, information and awareness building activities?**

World Heritage status has influenced education, information and awareness building activities, **but it could be improved**

**4.6.5 - How well is the information on Outstanding Universal Value of the property presented and interpreted?**

The Outstanding Universal Value of the property is **not adequately** presented and interpreted

**4.6.6 - Please rate the adequacy for education, information and awareness building of the following visitor facilities and services at the World Heritage property**

Visitor centre	Poor
Site museum	Not provided but needed
Information booths	Poor
Guided tours	Adequate
Trails / routes	Not provided but needed
Information materials	Adequate
Transportation facilities	Adequate
Other	Not needed

**4.6.7 - Comments, conclusions and / or recommendations related to education, information and awareness building**

campaign across the Sundarban impact zone and inclusions in the national curriculum at secondary and higher secondary level is needed.

**4.7. Visitor Management**

**4.7.1 - Please provide the trend in annual visitation for the last five years**

Last year	Major Increase (100%+)
Two years ago	Major Increase (100%+)
Three years ago	Minor Increase
Four years ago	Minor Increase
Five years ago	Minor Increase

**4.7.2 - What information sources are used to collect trend data on visitor statistics?**

Entry tickets and registries
Tourism industry

**4.7.3 - Visitor management documents**

**Comment**

Visitor management Document is regularly maintained at the district level offices.

**4.7.4 - Is there an appropriate visitor use management plan (e.g. specific plan) for the World Heritage property which ensures that its Outstanding Universal Value is maintained?**

There is **some management** of the visitor use of the World Heritage property

**4.7.5 - Does the tourism industry contribute to improving visitor experiences and maintaining the values of the World Heritage property?**

There is contact between those responsible for the World Heritage property and the tourism industry but this is largely **confined to administrative or regulatory matters**

**4.7.6 - If fees (i.e. entry charges, permits) are collected, do they contribute to the management of the World Heritage property?**

The fee is collected, but it makes **no contribution** to the management of the World Heritage property

**4.7.7 - Comments, conclusions and / or recommendations related to visitor use of the World Heritage property**

Visitor management should be in line with the carrying capacity of the site.

**4.8. Monitoring**

**4.8.1 - Is there a monitoring programme at the property which is directed towards management needs and / or improving understanding of Outstanding Universal Value?**

There is considerable monitoring but it is **not directed towards management needs** and / or improving understanding of Outstanding Universal Value

**4.8.2 - Are key indicators for measuring the state of conservation used to monitor how the Outstanding Universal Value of the property is maintained?**

Information on the values of the World Heritage property is sufficient and key indicators have been defined but **monitoring the status of indicators could be improved**

**4.8.3 - Please rate the level of involvement in monitoring of the following groups**

World Heritage managers / coordinators and staff	Excellent
Local / Municipal authorities	Not applicable
Local communities	Poor
Researchers	Poor
NGOs	Not applicable
Industry	Not applicable
Local indigenous peoples	Not applicable

**4.8.4 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?**

Implementation is planned, but has **not yet begun**

**4.8.5 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee**

**4.8.6 - Comments, conclusions and / or recommendations related to monitoring**

Periodic monitoring is needed and this monitoring information can be incorporated in the management plan.

**4.9. Identification of Priority Management Needs**

**4.9.1 - Please select the top 6 managements needs for the property (if more than 6 are listed below)**

Please refer to question 5.2



## 5. Summary and Conclusions

### 5.1. Summary - Factors affecting the Property

#### 5.1.1 - Summary - Factors affecting the Property

	World Heritage criteria and attributes affected	Actions	Monitoring	Timeframe	Lead agency (and others involved)	More info / comment	
<b>3.7</b>	<b>Local conditions affecting physical fabric</b>						
3.7.1	Wind	IX and X	no action to take	going on	no timeframe	not applicable	no comment
3.7.7	Pests						
<b>3.10</b>	<b>Climate change and severe weather events</b>						
3.10.1	Storms	IX and X	Early warning and climate resilient infrastructure	going on	no time limit	Forest Department, Department of meteorology, Bangladesh Space Research and Remote Sensing Organization	More frequent storms are observed now a day due to climate change impact
3.10.5	Changes to oceanic waters	IX	no action	no monitoring	not applicable	not applicable	no comment
3.10.6	Temperature change						
<b>3.11</b>	<b>Sudden ecological or geological events</b>						
3.11.5	Erosion and siltation/ deposition	IX and X	Re-excavation of canals/streams	intermittent monitoring	5 years	Forest Department and Bangladesh Water development Board	Erosion and siltation is a natural phenomenon of the active delta

### 5.2. Summary - Management Needs

#### 5.2.2 - Summary - Management Needs

<b>4.2 Protective Measures</b>						
		Actions	Timeframe	Lead agency (and others involved)	More info / comment	
4.2.2	The legal framework is inadequate	Existing laws to be updated	3 years	Government of Bangladesh and other relevant organizations	No comment	
<b>4.3 Management System / Management Plan</b>						
4.3.4	Management system / plan is inadequate	Integrated Resource management Plan going to be adopted	Next 10 years	Forest Department	Adequate Fund is needed for implementation of management plan	
<b>4.5 Scientific Studies and Research Projects</b>						
4.5.2	Research in the property is not planned	New research plans will be developed	3 years	Government of Bangladesh and other relevant organizations, universities, research institutions etc.	no comment	
<b>4.6 Education, Information and Awareness Building</b>						
4.6.3	There is no education and awareness programme	Campaign across the Sundarban impact zone and inclusions in the national curriculum at secondary and higher secondary level	3 years	Forest Department, Ministry of Education	Mass media campaign for ecosystem awareness is needed.	

**5.3. Conclusions on the State of Conservation of the Property**

**5.3.1 - Current state of Authenticity**

Not applicable (for sites inscribed exclusively under criteria vii to x)

**5.3.2 - Current state of Integrity**

The integrity of the World Heritage property is intact

**5.3.3 - Current state of the World Heritage property's Outstanding Universal Value**

The World Heritage property's Outstanding Universal Value has been maintained.

**5.3.4 - Current state of the property's other values**

Other important cultural and / or natural values and the state of conservation of the World Heritage property are predominantly intact

**5.4. Additional comments on the State of Conservation of the Property**

**5.4.1 - Comments**

no additional comment

**6. World Heritage Status and Conclusions on Periodic Reporting Exercise**

**6.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas**

Conservation	Very positive
Research and monitoring	Very positive
Management effectiveness	Very positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Positive
Education	Positive
Infrastructure development	Very positive
Funding for the property	Very positive
International cooperation	Very positive
Political support for conservation	Very positive
Legal / Policy framework	Very positive
Lobbying	Positive
Institutional coordination	Positive
Security	Very positive
Other (please specify)	Not applicable

**6.2 - Comments, conclusions and / or recommendations related to World Heritage status**

**6.3 - Entities involved in the preparation of this Section of the Periodic Report**

Governmental institution responsible for the property
Site Manager/Coordinator/World Heritage property staff
Local community
Donors
External experts

**6.4 - Was the Periodic Reporting questionnaire easy to use and clearly understandable?**

yes

**6.5 - Please provide suggestions for improvement of the Periodic Reporting questionnaire**

no suggestion

**6.6 - Please rate the level of support for completing the Periodic Report questionnaire from the following entities**

UNESCO	Very good
State Party Representative	Very good
Advisory Body	

**6.7 - How accessible was the information required to complete the Periodic Report?**

Most of the required information was accessible

**6.8 - The Periodic Reporting process has improved the understanding of the following**

The World Heritage Convention
The concept of Outstanding Universal Value
The property's Outstanding Universal Value
The concept of Integrity and / or Authenticity
The property's Integrity and / or Authenticity
Managing the property to maintain the Outstanding Universal Value
Monitoring and reporting
Management effectiveness

**6.9 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities**

UNESCO	Excellent
State Party	Satisfactory
Site Managers	Satisfactory
Advisory Bodies	Satisfactory

**6.10 - Summary of actions that will require formal consideration by the World Heritage Committee**

• **Statement of Outstanding Universal Value / Statement of Significance**

Reason for update: Has been submitted

• **Geographic Information Table**

Reason for update: Coordinates Sundarban East Wildlife Sanctuary 21degree50min/89deg40min  
Coordinates Sundarban West Wildlife Sanctuary 21degree35min/89deg00min  
Coordinates Sundarban South Wildlife Sanctuary 21degree35min/89deg20min  
Area of Sundarban East Wildlife Sanctuary 31226ha  
Area of Sundarban West Wildlife Sanctuary 71502ha  
Area of Sundarban South Wildlife Sanctuary 36970ha  
Inscription year 1997 for all 3 sanctuaries

**6.11 - Comments, conclusions and / or recommendations related to the Assessment of the Periodic Reporting exercise**

no comment