



# Ramsar Information Sheet

Published on 1 January 1970

## Japan

### Hinuma



Designation date: 28 May 2015

Ramsar ID: 2232

Coordinates: 36°16'41"N 140°30'17"E

Official area (ha): 935,00

Number of zones: 1

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a ' full ' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

**Summary** The sea level rised and a cove was formed about 6,000 years ago, and then its entrance was narrowed with sands from rivers, which made the cove into a brackish lake, namely Hinuma. The seawater flows 10 km upstream to Hinuma through Naka River and Hinuma River at high tide, and blends with freshwater.

Since early times, Hinuma has been a fishery site for brackish fishes and clams such as Asian clams, gobies and pond smelts.

Hinuma provides habitats for many speices, including nationally endangered species such as damselfly (*Mortonagrion Hiroseii*) and Stellar ' s Sea Eagle (*Haliaeetus pelagicus*) during important cycles of their lives. The damselfly was first recorded at Hinuma in 1971. More than 88 species of birds are observed at Hinuma. In winter, more than 10,000 ducks such as Mallard (*Anas platyrhynchos*) and Greater Scaup (*Aythya marila*) migrate to Hinuma for feeding and roosting. The number of Greater Scaup (*Aythya marila*) wintering at Hinuma is estimated at around 5,000 individuals annually and accounts for more than 1% of its population in East Asia.

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

Name Mr. Tetsuro Uesugi

Institution/agency Kanto Regional Environment Office, Ministry of the Environment, Japan

Postal address Meiji Yasuda Seimei Saitama Shintoshin Building 18F,  
11-2 Shintoshin, Chuo-ku, Saitama-city, Saitama, 330-6018 JAPAN

E-mail REO-KANTO@env.go.jp

Phone +81-48-600-0817

Fax +81-48-600-0521

#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year 1971

To year 2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish) Hinuma

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Boundaries description (optional)

The Boundary is the same as that of the Hinuma Special Protection Area within Hinuma National Wildlife Protection Area, following the boundaries of publicly-owned water body, roads and dikes. The site extends onto the territory of three different municipalities (Ibaraki Town, Oarai Town, Hokota City), all of which belong to Ibaraki Prefecture in Kanto region.

### 2.2.2 - General location

a) In which large administrative region does the site lie?

Ibaraki Town, Oarai Town and Hokota City, Ibaraki Prefecture, Kanto region

b) What is the nearest town or population centre?

Hokota City

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes  No

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

### 2.2.4 - Area of the Site

Official area, in hectares (ha):

935

Area, in hectares (ha) as calculated from GIS boundaries

953.91

### 2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Udvardy's Biogeographical Provinces	2.14.5 Manchu-Japanese Mixed Forest



## 3 - Why is the Site important?






### 3.1 - Ramsar Criteria and their justification

- Criterion 2 : Rare species and threatened ecological communities
- Criterion 4 : Support during critical life cycle stage or in adverse conditions
- Criterion 6 : >1% waterbird population

## 3.2 - Plant species whose presence relates to the international importance of the site

&lt;no data available&gt;

### 3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA / AVES	 <b>Aythya marila</b>	Greater Scaup	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4912	2006-2015	2		<input type="checkbox"/>	<input type="checkbox"/>		Criterion 4: a key staging site in the non-breeding season, Criterion 6: Population name: mariloides, E Asia (1% = 2400), 2006 - 2806, 2007 - 1145, 2008 - 10389, 2009 - 9808, 2010 - 8320, 2011 - 7717, 2012 - 3241, 2013 - 1779, 2014 - 509
CHORDATA / AVES	 <b>Haliaeetus pelagicus</b>	Steller's Sea Eagle; Steller's Sea-Eagle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	2011-2015			<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designated endangered species, the Law for the Conservation of Endangered Species of Wild Fauna and Flora, the Government of Japan, 2002	Population size: 2010 - 1, 2011 - 1, 2012 - 1, 2013 - 1, 2014 - 1
CHORDATA / AVES	 <b>Locustella pryeri</b>	Japanese Marsh Warbler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Designated endangered species, the Law for the Conservation of Endangered Species of Wild Fauna and Flora, the Government of Japan, 2002	

More than 88 species of birds were observed at Hinuma during 2009-2013.

### 3.4 - Ecological communities whose presence relates to the international importance of the site

&lt;no data available&gt;

## 4 - What is the Site like? (Ecological character description)

### 4.1 - Ecological character

The sea level rised and a cove was formed about 6,000 years ago, and then its entrance was narrowed with sands from rivers, which made the cove into a brackish lake, namely Hinuma. The seawater flows into Hinuma at high tide and blends with freshwater. The salinity in Hinuma varies from place to place, which enables not only brackish water species but seawater creatures and freshwater creatures to inhabit here. Many kinds of fishes, shellfishes and crustaceans live here. Fishery is operational throughout the year, and Hinuma is one of the famous fishing sites for Asian clam (*Corbicula japonica*) in Japan. Also, many migratory shorebirds uch as Greater Scaups come here. Blessed with natural beauty and biodiversity, Hinuma is a great place for birdwatching for environmental education as well as fishing and windsurfing.

### 4.2 - What wetland type(s) are in the site?

#### Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Q: Permanent saline/ brackish/ alkaline lakes		1	935	

## 4.3 - Biological components

### 4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
<i>Carex rugulosa</i>		Shimo-Ishizaki lakeside, Naka-ishizaki lakeside, Ibaraki town
<i>Carex scabrifolia</i>		
<i>Dioscorea bulbifera</i>		
<i>Monochoria korsakowii</i>		
<i>Penthorum chinense</i>		Around the mouth of Oya River, Minowa, Hokota city
<i>Phacelurus latifolius</i>		

### 4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
ARTHROPODA/INSECTA	<i>Aeshna mixta soneharai</i>					NT, National Red List. It inhabits mainly at reed zone of Hinuma.
CHORDATA/ACTINOPTERYGII	<i>Carassius auratus</i>	crucian carp				Endemic subspecies. VU, National Red List. It inhabits near reed zone of Hinuma.
CHORDATA/ACTINOPTERYGII	<i>Cottus reinii</i>					EN, National Red List. It inhabits at Hinuma in the juvenile stage.

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
CHORDATA/ACTINOPTERYGII	<i>Eutaeniichthys gilli</i>					NT, National Red List. It inhabits at shallow, sandy-muddy bottom in the brackish zone of Hinuma in the juvenile stage.
CHORDATA/ACTINOPTERYGII	<i>Gymnogobius castaneus</i>	Chestnut goby				Endemic species. EN, National Red List. It inhabits at reed zone of Hinuma.
CHORDATA/ACTINOPTERYGII	<i>Gymnogobius macrognathos</i>	Bigjaw goby				VU, National Red List. It inhabits at shallow, sandy-muddy bottom in the brackish zone of Hinuma.
CHORDATA/ACTINOPTERYGII	<i>Hyporhamphus intermedius</i>	halfbeak				NT, National Red List. It inhabits at reed zone of Hinuma.
ARTHROPODA/INSECTA	<i>Mortonagrion hirosei</i>					EN, National Red List. It inhabits at reed zone of Hinuma.
CHORDATA/ACTINOPTERYGII	<i>Oryzias latipes</i>	Japanese rice fish				VU, National Red List. It inhabits at reed zone of Hinuma.
ARTHROPODA/INSECTA	<i>Stylurus nagoyanus</i>					VU, National Red List. It inhabits at lakeside zone of Hinuma.

Invasive alien animal species

Phylum	Scientific name	Common name	Impacts	Changes at RIS update
CHORDATA/ACTINOPTERYGII	Ictalurus punctatus	Channel Catfish	Actually (minor impacts)	No change
CHORDATA/ACTINOPTERYGII	Lepomis macrochirus	Bluegill	Actually (minor impacts)	No change
CHORDATA/ACTINOPTERYGII	Micropterus salmoides	Largemouth Bass	Actually (minor impacts)	No change

## 4.4 - Physical components

### 4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Cfa: Humid subtropical (Mild with no dry season, hot summer)

### 4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

Lower part of river basin

More than one river basin

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

### 4.4.3 - Soil

Mineral

Organic

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes  No

#### 4.4.4 - Water regime

##### Water permanence

Presence?	Changes at RIS update
Usually permanent water present	No change

##### Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from rainfall	<input checked="" type="checkbox"/>	No change
Water inputs from surface water	<input type="checkbox"/>	No change
Water inputs from groundwater	<input type="checkbox"/>	No change
Marine water	<input type="checkbox"/>	No change

##### Water destination

Presence?	Changes at RIS update
To downstream catchment	No change
Marine	No change

##### Stability of water regime

Presence?	Changes at RIS update
Water levels fluctuating (including tidal)	No change

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology:

Tidal level change: 30-40cm  
Highest sea level: about 40cm

#### 4.4.5 - Sediment regime

Significant accretion or deposition of sediments occurs on the site

Sediment regime is highly variable, either seasonally or inter-annually

Please provide further information on sediment (optional):

Dredging sludge is conducted as needed.



#### 4.4.6 - Water pH

Alkaline (pH>7.4)

Please provide further information on pH (optional):

pH: 7.8 on average

#### 4.4.7 - Water salinity

Mixohaline (brackish)/Mixosaline (0 .5-30 g/l)

Please provide further information on salinity (optional):

Winter-spring: 8.0g/l at surface, 14.0g/l at bottom  
 Summer: 0.1g/l at surface, 0.1-14.0g/l at bottom

#### 4.4.8 - Dissolved or suspended nutrients in water

Eutrophic

#### 4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the site itself: i) broadly similar  ii) significantly different

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use

### 4.5 - Ecosystem services

#### 4.5.1 - Ecosystem services/benefits

##### Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	High

##### Regulating Services



Ecosystem service	Examples	Importance/Extent/Significance
Hazard reduction	Flood control, flood storage	Low

## Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	High
Recreation and tourism	Water sports and activities	Medium
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Inspiration	Low
Spiritual and inspirational	Contemporary cultural significance, including for arts and creative inspiration, and including existence values	High
Spiritual and inspirational	Spiritual and religious values	Medium
Spiritual and inspirational	Aesthetic and sense of place values	High
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High
Scientific and educational	Educational activities and opportunities	High
Scientific and educational	Long-term monitoring site	High
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High

## Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	High
Soil formation	Sediment retention	Medium
Soil formation	Accumulation of organic matter	Medium

## Other ecosystem service(s) not included above:

More on spiritual value of the site: “ Amba-matsuri (festival of peaceful waves) ” is held here in Hinuma at the end of July every year to pray for the productiveness of grain and plentiful catch of fish. As a main ritual, the locals perform dances on a floating stage in Hinuma.

Within the site: 100000

Outside the site: 160000

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

#### 4.5.2 - Social and cultural values

i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland

Description if applicable: The fishery of Asian clam (*Corbicula japonica*) has been conducted sustainably in accordance with the local fishing rule that defines the size and total catch allowed to fish for.

#### 4.6 - Ecological processes

<no data available>

## 5 - How is the Site managed? (Conservation and management)

### 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

##### Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Provincial/region/state government	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Local authority, municipality, (sub)district, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

##### Private ownership

Category	Within the Ramsar Site	In the surrounding area
Commercial (company)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other types of private/individual owner(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

##### Other

Category	Within the Ramsar Site	In the surrounding area
Commoners/customary rights	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Provide further information on the land tenure / ownership regime (optional):

Within Ramsar site: Public water 98.4%, Private land 1.6%

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Kanto Regional Environment Office, Ministry of the Environment, Japan

Provide the name and title of the person or people with responsibility for the wetland:

Mr. Tetsuro Uesugi

Postal address: Meiji Yasuda Seimei Saitama Shitoshin Building 18F, 11-2 Shintoshin, Chuo-ku, Saitama-city, Saitama prefecture 330-6018 JAPAN

E-mail address: REO-KANTO@env.go.jp

## 5.2 - Ecological character threats and responses (Management)

### 5.2.1 - Factors (actual or likely) adversely affecting the Site ' s ecological character

#### Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Housing and urban areas	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Commercial and industrial areas	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tourism and recreation areas	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Drainage	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water abstraction	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dredging	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Salinisation	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water releases	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Canalisation and river regulation	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Annual and perennial non-timber crops	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Livestock farming and ranching	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Marine and freshwater aquaculture	Low impact	Low impact	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Renewable energy	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Roads and railroads	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Shipping lanes	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Hunting and collecting terrestrial animals	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Gathering terrestrial plants	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fishing and harvesting aquatic resources	Low impact	Low impact	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Recreational and tourism activities	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Dams and water management/use	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vegetation clearance/ land conversion	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Invasive non-native/ alien species	Low impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Household sewage, urban waste water	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Industrial and military effluents	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Agricultural and forestry effluents	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Garbage and solid waste	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Air-borne pollutants	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Geological events

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Earthquakes/tsunamis	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Avalanches/landslides	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Climate change and severe weather

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Habitat shifting and alteration	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Droughts	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Storms and flooding	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## 5.2.2 - Legal conservation status

### National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Special Protection Area of National Wildlife Protection Area	Hinuma Special Protection Area within Hinuma National Wildlife Protection Area		whole

### Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Other non-statutory designation	Hinuma, 500 Important Wetlands in Japan, 2002		whole

## 5.2.3 - IUCN protected areas categories (2008)

IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention

## 5.2.4 - Key conservation measures

### Legal protection

Measures	Status
Legal protection	Implemented

### Habitat

Measures	Status
Improvement of water quality	Partially implemented
Habitat manipulation/enhancement	Partially implemented

### Species

Measures	Status
Threatened/rare species management programmes	Implemented



## Human Activities

Measures	Status
Regulation/management of wastes	Implemented
Fisheries management/regulation	Implemented
Harvest controls/poaching enforcement	Implemented
Regulation/management of recreational activities	Partially implemented
Communication, education, and participation and awareness activities	Partially implemented
Research	Partially implemented

Other: Hinuma is abundant in marine species and supports fishery locally. Recently, there have been several issues caused by environmental pollution, impact of development on natural ecology, and change in people ' s values. On the other hand, NGOs and others are promoting conservation activities such as Satochi-satoyama conservation which aim at protecting water sources, introducing sewage contamination management to reduce pressure on the environment, and restoring reed beds and submerged plants in Hinuma. Many conservation movements that are becoming more and more active contribute to the increased environmental awareness among local people as well as improved water quality and biodiversity of Hinuma.

Water quality was improved through treatment of sewage with septic tanks as well as awareness raising activities among local communities.

## 5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes  No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes  No

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

An observation stand for bird watching will be built on a shore of Hinuma by the end of FY 2015. The observation stand will be utilized for environmental education, nature experience tours and others. In addition, introduction of agricultural education programs for school children including Asian clam fishing is underway.

## 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No need identified

### 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water regime monitoring	Implemented
Water quality	Implemented
Plant community	Implemented
Plant species	Implemented
Animal community	Implemented
Animal species (please specify)	Implemented
Birds	Implemented

Animal species monitored: *Mortonagrion hirosei* (EN, National Red List. It inhabits at reed zone of Hinuma).

Population census of Anatidae is conducted every January by Ibaraki prefecture.

Monitoring of the invasive alien species listed under biological components is not conducted. This is because those three species usually inhabit in freshwater and since Hinuma is brackish water lake distribution of these species is limited to near-freshwater parts of Hinuma.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Compilation committee of Ibaraki town history, 1993, The History of Ibaraki Town;

Ibaraki Town, 2013, Basic Environmental Plan of Ibaraki Town;

Ibaraki Town, 2010, Hinuma Environment Conservation Plan of Ibaraki Town;

Ibaraki Town, 2013, The Survey Report on Water Quality of Hinuma;

Ministry of the Environment, Government of Japan, 2002, 500 Important Wetlands in Japan  
<http://www.sizenken.biodic.go.jp/pc/weten/>;

Ministry of the Environment, Government of Japan, 2006-2014, Report on population census of Anatidae;

Ministry of the Environment, Government of Japan, 2015, Provisional report on population census of Anatidae.

#### 6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<no file available>

### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



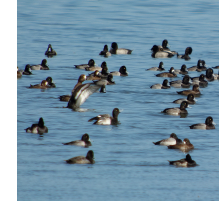
2damselflymale ( Ibaraki Town, 11-07-2009)



10Hinumagverview2 ( Ibaraki Town, 26-11-2011)



8Hinumadawn ( Ibaraki Town, 27-11-2012)



5scaup2 ( Ibaraki Town, 30-10-2013)



4scaup1 ( Ibaraki Town, 16-03-2014)



3damselflyfemale ( Ibaraki Town, 11-07-2009)



7Hinumasurface ( Ibaraki Town, 24-03-2015)



9Hinumagverview1 ( Ibaraki Town, 24-03-2015)



1stellersseaeeagle.jpg ( Ibaraki Town, 07-02-2014)

### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2015-05-28