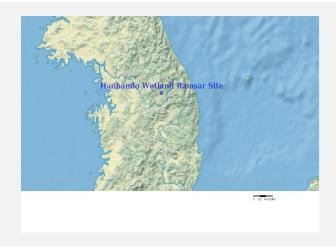


Ramsar Information Sheet

Published on 21 May 2015

Republic of Korea

Hanbando Wetland Ramsar Site



Designation date: 13 May 2015

Ramsar ID: 2226

Coordinates: 37°13'16"N 128°20'14"E

Official area (ha): 191,50

Number of zones: 4

https://rsis.ramsar.org/ris/2226 Created by RSIS V.1.3 on Thursday 12 November 2015

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 (This field is limited to 2500 characters)

The Hanbando Wetland lies in a sand-gravel bar formed in an incised meander. The site is representative of natural riverine wetlands in the Republic of Korea. The site consists of various types of riffles and pools that retain high biodiversity value and provide habitats for numerous species including a number of endemic and nationally threatened species.

The surface is composed mostly of limestone through which groundwater aguifers are formed and recharged.

The water that flows through the Hanbando Wetland Ramsar Site is collected at a water harvesting plant located near the wetland that supplies the majority of drinking water for locals. Also, the wetland has long been supporting local agricultural industry.

The name 'Hanbando' signifies that the wetlands resembles the shape of the Korean Peninsular and increases its symbolic value.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Name Kyoung-Pyo Hong

Institution/agency | Ministry of Environment

Postal address (This field is limited to 254 characters)

339-012, Nature Policy Division, Ministry of Environment Building #6 Government Complex-Sejong 11 Doum 6-ro Sejong Special Self-Governing City Republic of Korea

amplest@korea.kr

Phone 82-44-201-7229

Fax 82-44-201-7235

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

From year | 2009

To year 2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish) Hanbando Wetland Ramsar Site

Unofficial name (optional) Hanbando Wetland

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Boundaries description (optional) (This field is limited to 2500 characters)

The boundary delineated is the boundary of the Hanbando Wetland Protection Area, designated by the Ministry of Environment of the Republic of Korea on August 30, 2012.

There is about 8 percent area difference between the official area indicated and the area automatically calculated by GIS shapefile. This difference derived from using two different area measuring systems. The Government of the Republic of Korea will hold an expert meeting before the end of this year to address the issue.

2.2.2 - General location

a) In which large administrative region does the site lie?	Gangwon-do (province)
b) What is the nearest town or population centre?	Hanbando-meyon (town)

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 O No

2.2.4 - Area of the Site

Official area, in hectares (ha):	191.5
Area, in hectares (ha) as calculated from GIS boundaries	207.91

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Marine Ecoregions of the World (MEOW)	Holarctic region, Palaearctic subregion, Oriental Deciduous Forest Province, Temperate Broad-leaf Forest Biome
Freshwater Ecoregions of the World (FEOW)	Eastern Yellow Sea Drainages

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided (This field is limited to 3000 characters)

Groundwater bodies are concentrically formed beneath the wetland bed, and are recharged as water from the rivers infiltrates through limestone. This means that a huge amount of the water that flows into the wetland, turns into groundwater replenishing groundwater aquifers. The water that flows through the Hanbando Wetland Ramsar Site is collected at a water harvesting plant located near the wetland that supplies the majority of drinking water for locals. Also, the wetland has long been supporting local agricultural industry.

Other reasons (This field is limited to 3000 characters)

The Hanbando Wetland is representative of natural riverine wetlands in Korea. The wetland lies in a sand-gravel bar formed in an incised meander and karst topography that features a variety of karst landforms including doline, kaeen, and river cliff.

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3 : Biological diversity

Justification (This field is limited to 3000 characters)

Riffles and pools within the wetland provide natural habitats and spawning grounds for numerous aquatic species. In particular, many fish species legally protected in the Republic of Korea under the Wildlife Protection and Management Act as well as a number of Korean endemic fish species were found in large numbers in the wetland enhancing the conservation value of the wetland. The Wildlife Protection and Management Act provides the legal protection for wildlife in Korea, especially Endangered Wild Species that are currently classified into two categories: Endangered Wild Species Class I and II. The 'Endangered Wild Species - Class I' includes wild species whose numbers have drastically declined resulting from natural or anthropogenic factors. The 'Endangered Wild Species - Class II' includes wild species whose numbers have significantly declined and which face threat of extinction in the near future in the event where current threatening factors are not eliminated or alleviated. The species listed in both Level I and Level II are designated by the Ministry of Environment in agreement with the head of the administrative agency concerned.

☑ Criterion 7 : Significant and representative fish

Justification (This field is limited to 3000 characters)

The Hanbando Wetland is home to many endemic fish species, and among them is Gobiobotia brevibarba, a species that is found only in Korea. The fast flow of water in the riverine wetland and gravel stones on its bed provide clean water and habitats for these native species, including Zacco platypus, Zacco koreanus, Acheilognathus signifier, Acheilognathus yamatsutae, Acheilognathus rhombeus, Carassius auratus, Sarchocheilichthys varigatus wakiyae, Pungtungia herzi,

Coreoleuciscus splendidus, Squalidus gracilis majimae, Hemibarbus longristris and Hemibarbus mylodon.

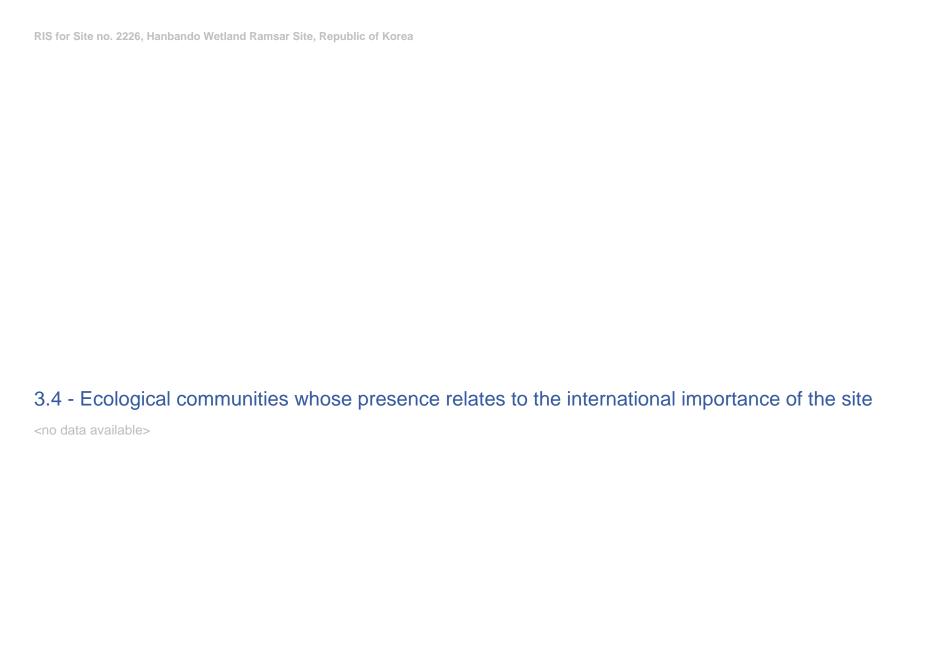
3.2 - Plant species whose presence relates to the international importance of the site

<no data available>

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

Dividence	Phylum Scientific name Common name		Species	qualifie	s under o	nder criterion Species contributes under criterion				D 0'	. Olea Bariadatuan Est	0/ converge IIICN Dod I		UCN Red List CITES Appendix I		Other Oteler	Justification	
Phylum	Scientific name	Common name	2	4	6	9	3	5	7	8	Pop. Size	Period of pop. Est.	% occurrence	IUCN Red LIST	CITES Appendix I	CWS Appendix I	Other Status	Justification
CHORDATA / ACTINOPTERYGII	Acheilognath signifer)					✓		✓								Class II Endangered Wildlife, Wildlife Protection and Management Act in Korea	Endemic species
CHORDATA / ACTINOPTERYGII	Acheilognath yamatsutae	1					✓		✓									Endemic species
CHORDATA / ACTINOPTERYGII	Coreoleuciso splendidus COL						✓		✓									Endemic species
CHORDATA / ACTINOPTERYGII	Coreoperca herzi COL						✓		✓									Endemic species
CHORDATA / ACTINOPTERYGII	Gobiobotia brevibarba						✓		✓								National red list - VU Class II Endangered Wildspecies, Wildlife Protection and Management Act in the Republic of Korea.	Endemic species
CHORDATA / ACTINOPTERYGII	Hemibarbus mylodon						✓		✓								National red list - VU	Endemic species
CHORDATA / MAMMALIA	Hydropotes inermis	Chinese water deer	✓											VU @ RED				
CHORDATA / ACTINOPTERYGII	Iksookimia koreensis						✓		✓									Endemic species
CHORDATA / ACTINOPTERYGII	Koreocobitis rotundicauda						✓		✓									Endemic species
CHORDATA / ACTINOPTERYGII	Liobagrus andersoni						✓		✓									Endemic species
CHORDATA / MAMMALIA	Lutra lutra	European Otter												NT ⊚ tsp	✓		National red list - VU Class I Endangered Wildspecies, Wildlife Protection and Management Act in the Republic of Korea.	

Dhulum	Scientific name	Common no	Species	qualifie	s under	criterion	Species	contribut	es under	criterion	Don Sine Devied of non-	9/ converge ILICN De dell'et	CITES Appear die l	CMC Annon-lived	Other Status	Justification
Phylum	Scientific name	Common name	2	4	6	9	3	5	7	8	Pop. Size Period of pop. Est.	% occurrence IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA / REPTILIA	Mauremys reevesii		✓									EN ⊚ tsp		✓	National red list - VU	
CHORDATA / ACTINOPTERYGII	Microphysog yaluensis						✓		✓							Endemic species
CHORDATA / ACTINOPTERYGII	Nipponocypri koreanus						✓		✓							Endemic species
CHORDATA / ACTINOPTERYGII	Odontobutis platycephala						✓		✓							Endemic species
CHORDATA / ACTINOPTERYGII	Pseudobagru koreanus						✓		✓							Endemic species
CHORDATA / ACTINOPTERYGII	Pseudopunga tenuicorpus						✓		✓						Class II Endangered Wildlife, Wildlife Protection and Management Act in Korea Endemic species	Endemic species
CHORDATA / ACTINOPTERYGII	Sarcocheilich variegatus wakiyae						✓		✓							Endemic species
CHORDATA / ACTINOPTERYGII	Squalidus gracilis majimae						✓		✓							Endemic species



Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Phragmites japonica community			
Salix nipponica community			
Salix koreensis community			
Potamogeton malaiaus var. latifolius community			
Miscanthus sacchariflorus community			
Hydrilla verticillata community			

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

4.1 - Ecological character

(This field is limited to 2500 characters)

The Hanbando Wetland is a riverine wetland that flows slower at its upstream confluence where the Pyeongchang River (mainstream) and Jucheoncheon River (its tributary) meet than at its mouth towards the mainstream. The slow flow regime upstream causes sediments flowing into the wetland to deposit and form a thick layer of sediments that purifies pollutants and retain nutrients. In performing these functions, the site improves water quality and provides habitats for various aquatic species.

A total of 230 species of 60 families of vascular plants were found in the Hanbando Wetland, with 16 species of 11 families in the low water channel, 60 species of 19 families on the shore, 150 species of 37 families on the flood channel, and 84 species of 30 families on the levee. The largest number of species was found on the flood channel, which is a common feature of riverine wetlands, and means that the land size of the flood channel is larger than that of the wetland. The biodiversity richness (the number of species per hectare) of the wetland is 3.46/?, 3.9 times higher than that of the Damyang Wetland (0.86/?), one of the other riverine wetlands designated as a Wetland Protection Area in Korea. The rich biodiversity of the wetland is due to plant propagules that have been provided in large numbers.

A total of 9 species of 8 families of 4 orders of mammals were observed in the Hanbando Wetland. A total of 35 avian species were found. Seasonally, on average, 26 species during summer and 20 species during fall were observed. About 51.4% of the total number of the birds in the wetland is endemic species. A total of 24 fish species were observed in the wetland, and around 62% of them or, 15 species, were endemic species. The wetland lies at the confluence, consisting of many riffles and pools that provide habitats and spawning grounds for fish. Other animals inhabiting the site include 4 species of 2 families of 1 order of amphibian, and 3 species of 2 families of 1 order of reptile.

A total of 69 species of 31 families of 9 orders of land insects were observed, with 19 grasshopper species and 14 dragonfly species being the two dominant insect species in the wetland. A total of 24 species of 17 families of 11 orders of benthic invertebrate were also found, including Semisulcospira amurensis. Uracanthella rufa and Cheumatopsyche brevilineata were recorded as the two dominant aquatic species at the site.

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
M: Permanent rivers/ streams/ creeks		1	191.5	Representative

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
Artemisia princeps		
Cnidium monnerii monnieri		
Festuca arundinacea		
Hydrilla verticillata		
Miscanthus sacchariflorus		
Monochoria korsakowii		
Phragmites karka		
Polygonatum stenophyllum		Class II Endangered Wildspecies, Wildlife Protection and Management Act in the Republic of Korea
Potamogeton nodosus		
Pueraria montana lobata		
Quercus mongolica		
Robinia pseudoacacia	False-acacia;False Acacia;Black Locust	
Salix gracilistyla		
Salix koreensis		
Salix koriyanagi		
Salix rorida		
Salix subfragilis		
Selaginella stauntoniana		

RIS for Site no. 2226, Hanbando Wetland Ramsar Site, Republic of Korea

Invasive alien plant species

Scientific name	Common name	Impacts
Ambrosia artemisiifolia		Potentially
Ambrosia trifida		Potentially
Cerastium glomeratum		No impacts
Fallopia dumetorum		No impacts
Phytolacca americana		No impacts
Rumex crispus		No impacts
Silene armeria		No impacts
Solanum carolinense		Potentially
Xanthium strumarium		No impacts



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
CHORDATA/AVES	Accipiter soloensis	Chinese Sparrowhawk;Gray Frog-Hawk				National Red List - VU
CHORDATA/ACTINOPTERYGII	Acheilognathus rhombeus					
CHORDATA/MAMMALIA	Apodemus agrarius					
CHORDATA/ACTINOPTERYGII	Carassius auratus					
CHORDATA/AVES	Charadrius placidus	Long-billed Plover				National Red List - VU
ARTHROPODA/INSECTA	Cheumatopsyche brevilineata					
CHORDATA/MAMMALIA	Crocidura lasiura	Ussuri Shrew;Ussuri White-toothed Shrew				
CHORDATA/REPTILIA	Elaphe schrenckii					National Red List - EN
CHORDATA/AVES	Falco tinnunculus	Common Kestrel;Eurasian Kestrel				National Red List - VU
CHORDATA/ACTINOPTERYGII	Koreocobitis naktongensis					
CHORDATA/MAMMALIA	Mogera wogura robusta					
CHORDATA/MAMMALIA	Mustela sibirica	Siberian Weasel				
CHORDATA/MAMMALIA	Nyctereutes procyonoides	Raccoon dog				
CHORDATA/MAMMALIA						

RIS for Site no. 2226, Hanbando Wetland Ramsar Site, Republic of Korea
Prionailurus bengalensis

RIS for Site no. 2226, Hanbando Wetland Ramsar Site, Republic of Korea		
Leopard Cat		
	1	

RIS for Site no. 2226, Hanbando Wetland Ramsar Site, Republic of Korea

Endangered Wild Species Class II

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
CHORDATA/ACTINOPTERYGII	Pungtungia herzi					
CHORDATA/ACTINOPTERYGII	Rhinogobius brunneus					
CHORDATA/MAMMALIA	Sciurus vulgaris	Eurasian Red Squirrel				
MOLLUSCA/GASTROPODA	Semisulcospira cancellata					
CHORDATA/ACTINOPTERYGII	Siniperca scherzeri					
CHORDATA/MAMMALIA	Sus scrofa	wild boar				
CHORDATA/ACTINOPTERYGII	Zacco platypus					

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion		
C: Moist Mid-Latitude climate with mild winters	Cwa: Humid subtropical (Mild with dry winter, hot summer)		

(This field is limited to 1000 characters)

The average annual temperature of Hanbando Wetland is 10.8?. The average annual wind velocity is 1.5?. The average annual relative humidity is 69.1%. The average annual amount of cloud cover is 5.3. The average annual duration of sunshine is 2,109.5 hours. From April to October, the average monthly temperature exceeds the annual average. The hottest and coldest months of the year is August and January respectively, with the average monthly temperature estimated at 23.8? and 3.9? respectively. The annual temperature range is 27.9?, meaning that the wetland has a typical continental climate. The monsoon season lasts between June and September, with the average monthly precipitation exceeding 100?.

4.4.2 - Geomorphic setting

RIS for Site no. 2226, Hanbando Wetland Ramsar	Site, Republic of Korea
a) Minimum elevation above sea level (in metres)	207
a) Maximum elevation above sea level (in metres)	230
	More than one river basin ✓
Please name the river basin or basins. If the site (This field is limited to 1000 characters)	e lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.
The Hanbando Wetland lies at the conflue	nce of the Pyeongchang River (the main stream) and the Jucheoncheon River (its

The Hanbando Wetland lies at the confluence of the Pyeongchang River (the main stream) and the Jucheoncheon River (its tributary). The river valley that stretches through the site becomes broader towards the upstream of the confluence and narrower towards the downstream. The Jucheoncheon River flows through a limestone area and meets other tributaries flowing through a granite area in the region, which causes a sand-gravel bar to form within the wetland and maintain a favourable environment for vegetation. The wetland bed is composed of unconsolidated sediments, Cambrian-Ordovician limestone, Jurassic Daebo granite, Cambrianmetamorphic rocks, and clastic sedimentary rocks with medium grain size. The geological structure of the wetland is the Choson Supergroup of Yeongwol Type that consists of the Sambangsan Formation from its bottom, the Machari Formation, the Wagok Formation, the Mugok Formation, and the Yeongheung Formation to the top.

4.4.3 - Soil

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

Please provide further information on the soil (optional) (This field is limited to 1000 characters)

The soils in and around the Hanbando Wetland are unconsolidated sediments, Cambrian-Ordovician limestone rocks, Jurassic Daebo granites, Cambrian metamorphic rocks and clastic sedimentary rocks in medium grain size.

4.4.4 - Water regime

Water permanence

Presence?
Usually permanent water present

Source of water that maintains character of the site

Presence?	Predominant water source	
Water inputs from rainfall		
Water inputs from surface water	✓	
Water inputs from groundwater		

RIS for Site no. 2226, Hanbando Wetland Ramsar Site, Republic of Korea

Water destination

Presence?

To downstream catchment

Stability of water regime

Presence?

Water levels largely stable

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology: (This field is limited to 1000 characters)

Groundwater bodies are concentrically formed beneath the wetland bed, and are recharged as water from the rivers infiltrate through limestone. The main catchments that drains into the Hanbando Wetland are is the Pyungchang River and the Jucheoncheon River. The average elevation and inclination of the river are respectively 539.2 meters above sea level and 33.2% respectively. Due to the average inclination of the river basin that is more than 30%, water flows fast into the river from the slopes of its surrounding areas, especially during Horton overland flows, and the water stored in the limestone rocks beneath the wetland flows into the river. The average flow rate of Pyungchang River the river is 3.31 cubic meter per second, or cms. The average flow rate of Jucheoncheon River is 8.33 cms. Taking into consideration the average flow rate of the Hanbando Wetland is calculated at 11.6 cms.

4.4.5 - Sediment regime

Significant transportation of sediments occurs on or through the site

Please provide further information on sediment (optional): (This field is limited to 1000 characters)

The thick layer of sediments deposited beneath Hanbando Wetland purifies water flowing into it from the rivers, enhancing the self-purification capability of the wetland. The riffles and pools of different sizes within the wetland boundary provide habitats and spawning grounds for fish species, making the site a favourable environment for numerous aquatic species. The types of rocks found in the wetland are diorite, granitic gravel, and phyllite.

4.4.6 - Water pH

Acid (pH<5.5) <a>

4.4.7 - Water salinity

Fresh (<0.5 g/l) 🗹

4.4.8 - Dissolved or suspended nutrients in water

<no data available>

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 i) broadly similar
ii) significantly different
Site differ from the site itself:

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Fresh water	Drinking water for humans and/or livestock	Medium
Fresh water	Water for irrigated agriculture	Medium

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	Medium
Maintenance of hydrological regimes	Storage and delivery of water as part of water supply systems for agriculture and industry	Medium
Erosion protection	Soil, sediment and nutrient retention	Medium
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	Medium

Supporting Services

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

Other ecosystem service(s) not included above: (This field is limited to 1000 characters)

The site hosts about 1,400,000 visitors annually.

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes ○ No ⑥ Unknown ○

4.5.2 - Social and cultural values

<no data available>

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	✓	✓
Local authority, municipality, (sub)district, etc.	✓	

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	✓	✓

Provide further information on the land tenure / ownership regime (optional): (This field is limited to 1000 characters)

Land ownership within the site is divided between the Ministry of Land, Infrastructure and Transport, the Ministry of Strategy and Finance, the Korea Forest Service, the Ministry of Environment and the Government of Yeongwol-gun. Some small patches of private lands located within the boundary have been purchased by the Land Purchase Programme under the Conservation Plan for the Hanbando Wetland Protected Area (Ministry of Environment). Small parts of mountainous area surrounding the site are owned by the Korea Forest Service, and the most of the surrounding land is privately owned. Under the Wetland Conservation Act, some parts of the government-owned and private land were identified as Managed Wetland Surrounding Area (WSA), and activities within the WSA are restricted and governed by the Act.

5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site: (This field is limited to 1000 characters)

Wonju Regional Environmental office, an affiliated office to the Ministry of Environment

Provide the name and title of the person or

people with responsibility for the wetland: Gye-Yeong Hwang, Head of Wonju Regional Environmental Office

Postal address: (This field is limited to 254 characters)

171 Dangu-ro, Myeongryun-dong, Wonju-si, Gangwon-do, Republic of Korea

Tel. 82-33-764-0981/Fax. 82-31-764-0987

E-mail address: sshksn@korea.kr

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)

Fa	actors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
	Tourism and recreation areas	Low impact	Low impact	✓	✓

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	✓	✓

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		✓

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Recreational and tourism activities	Low impact	Low impact	✓	✓

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		Medium impact	✓	✓

5.2.2 - Legal conservation status

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Protected Area	HanbandoWetlandProtectionArea		whole

5.2.3 - IUCN protected areas categories (2008)

Ia Strict Nature Reserve 🗹

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

VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Measures	Status	
Legal protection	Implemented	

Habitat

Measures	Status
Habitat manipulation/enhancement	Proposed

Species

Measures	Status
Control of invasive alien plants	Proposed

Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Implemented
Research	Implemented

Other: (This field is limited to 2500 characters)

Under the Hanbando Wetland Conservation Plan, the Ministry of Environment has bought in patches of the land within and surrounding the site. The ministry then established a restoration programme to bring the lands purchased, especially those destroyed, damaged or degraded, back to its original and natural state.

5.2.5 - Management planning

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

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

No

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site: (This field is limited to 1000 characters)

There is no Ramsar centre at Hanbando. But Wonju Regional Environmental Office, local governments, and NGOs are jointly implementing public education programs and activities to increase public awareness on wetland conservation.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Please select a value

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Plant community	Implemented
Animal community	Implemented
Birds	Implemented

(This field is limited to 2500 characters)

Other monitoring activities:

- Intensive Survey on Wetland Protected Area (once in every 5 years, by the National Wetlands Center). Survey covers 11 areas including geomorphology, hydrology, vegetation, avian fauna, mammal fauna, flora, insects and invasive species etc. Wetland Protected Area Monitoring (once in every year, by Wonju Regional Environmental Office) covers vegetation, flora
- and fauna.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

(This field is limited to 2500 characters)

Ministry of Environment of the Republic of Korea & UNDP/GEF, 2009. Report on the Intensive Survey on National Inland Wetland, by UNDP/GEF National Wetland Conservation Project Control Group.

Wonju Regional Environmental Office, 2012. Study on Establishing Management and Conservation Plan for Hanbando Wetland Protected Area;

Wonju Regional Environmental Office, 2012. Management and Conservation Plan for Hanbando Wetland Protected Area;

Udvardy, 1975. A Classification of the Biogeographical Province of the World, Freshwater Ecoregions of the world (www.feow.org).

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 availables

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:



Upstream, north to the Pyeongchang River (*Ministry of Environment, 01-09-2009*)



Middle part, west to the edge of the Ramsar Site boundary (Ministry of Environment, 20-05-2014)



Downstream, south to the Pyeongchang River (Ministry of Environment, 20-05-2014)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2015-05-13