



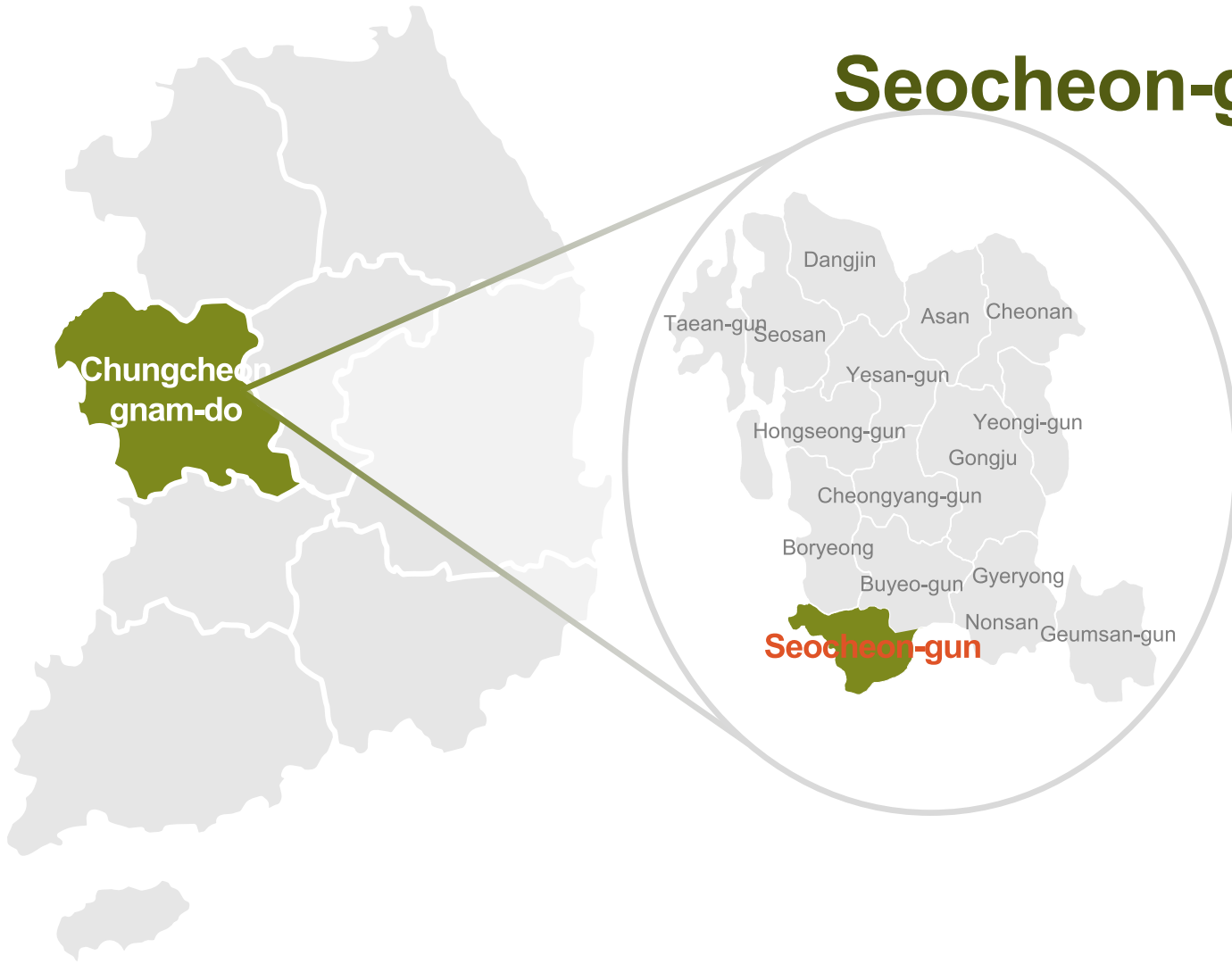
**STATUS OF THE PRESERVATION
AND MANAGEMENT OF THE
SPOON-BILLED SANDPIPER**
Seocheon-gun



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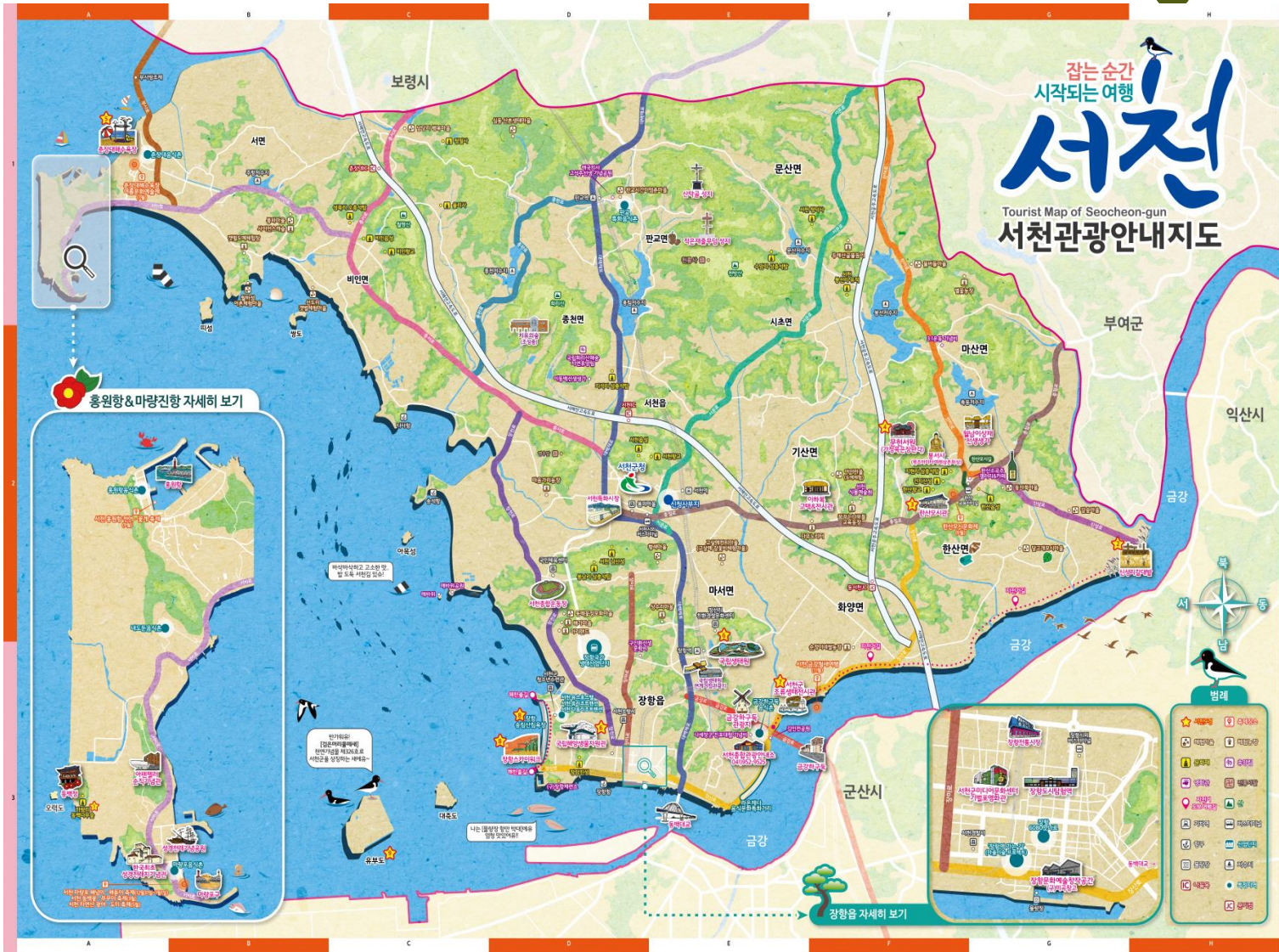
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Seocheon-gun, Chungcheongnam-do



- ◆ Located at the mouth of Geumgang River, which is famous for seafood
- ◆ Rich in culinary and cultural resources
- ◆ Home to many relics of traditional culture
- ◆ Rich in ecological resources (mountain, ocean, and river all in one place!)

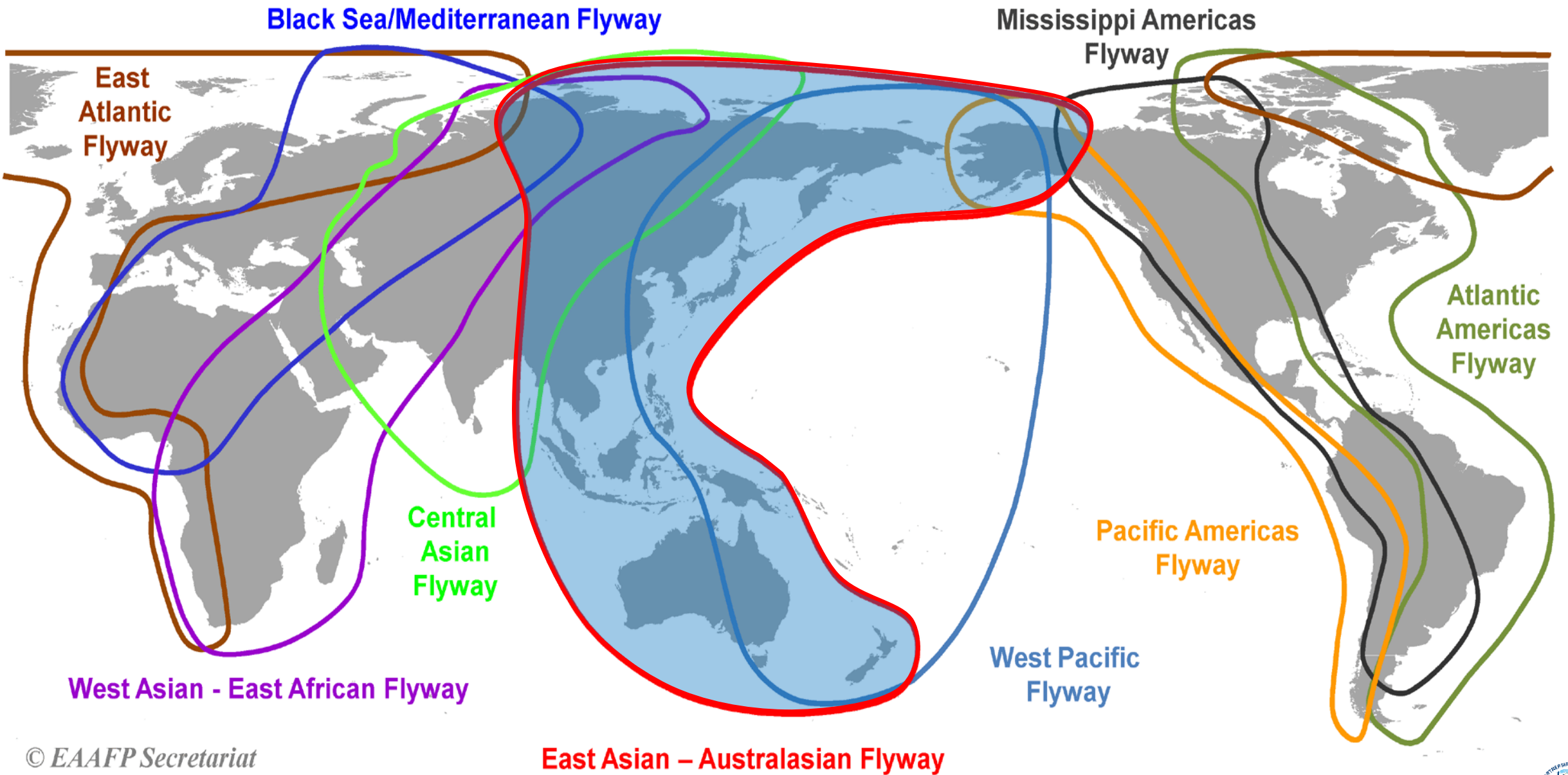
SEOICHEON TRAVEL + Seocheon-gun, Chungcheongnam-do



- ◆ Administrative districts: two eup, 11 myeon
- ◆ Seocheon-eup (center of county) can be reached from anywhere in under 30 minutes
- ◆ Area: 358.0 sq. km.
- ◆ Population: 52,805 (as of Dec. 2019)
- ◆ Known for Hansan ramie cloth, Hansan rice wine, laver, rice, mosi songpyeon, anchovies, etc.

Status and features of the Seocheon-gun mudflats









Biodiversity of Seocheon Getbol

- Benthic Diatoms: **181 species**
- Primary Production: **37.6 ~ 162.1mg/m² (82.0 mg/m² on average)**
- Marine Macroalgae: **49 species**
- Halophyte: **27 species**
- Macrobenthos: **181 species (1,736 ind./m²)**
- Waterbirds: **85 species /147,873 ind.**



Eurasian Oystercatchers and Eurasian Curlews

Ecological and economic value of the Seocheon-gun mudflats

- **Ecological and economic value of the Seocheon-gun mudflats**

Conversion of the value of the Seocheon-gun mudflats according to socioeconomic standards shows that it holds great value in terms of: local residents, tourism activities, seasonal birds, and shellfish.

	Amount citizens are willing to pay (KRW)
Seasonal birds	Maintenance of the seasonal bird population of the Yubudo/Seocheon mudflats at 90,000 12,817
Shellfish	Annual production of 100 tons of shellfish (harvested from respective mudflats) 10,288
Tourism activities	Annual average of 50,000 tourists visiting for mudflats exploration/experience, etc. 14,033
Local residents	Maintenance of 1,000 households that fish for a living 32,327

Outcomes of analysis of average amount citizens are willing to pay (mudflats fund) per person based on national sample

The ecological value of the Seocheon-gun mudflats is estimated to be (approx.) USD 232.3 billion per year.

Regulation

Seocheon mudflats reduce the effects of global warming (by absorbing carbon, etc.).

4 (Strongly agree)

Support

Seocheon mudflats are a habitat for many life forms.

3 (Agree)

Regulation

Seocheon mudflats reduce pollution levels.

3 (Agree)

Culture

Seocheon mudflats offer interactive tourism resources.

4 (Strongly agree)

Support

Seocheon mudflats offer rest areas for seasonal birds.

3 (Agree)

Supply

Seocheon mudflats produce shellfish (clams, oysters, etc.).

3 (Agree)

Culture

Seocheon mudflats are beautiful.

4 (Strongly agree)

Culture

Seocheon mudflats are an effective educational resource.

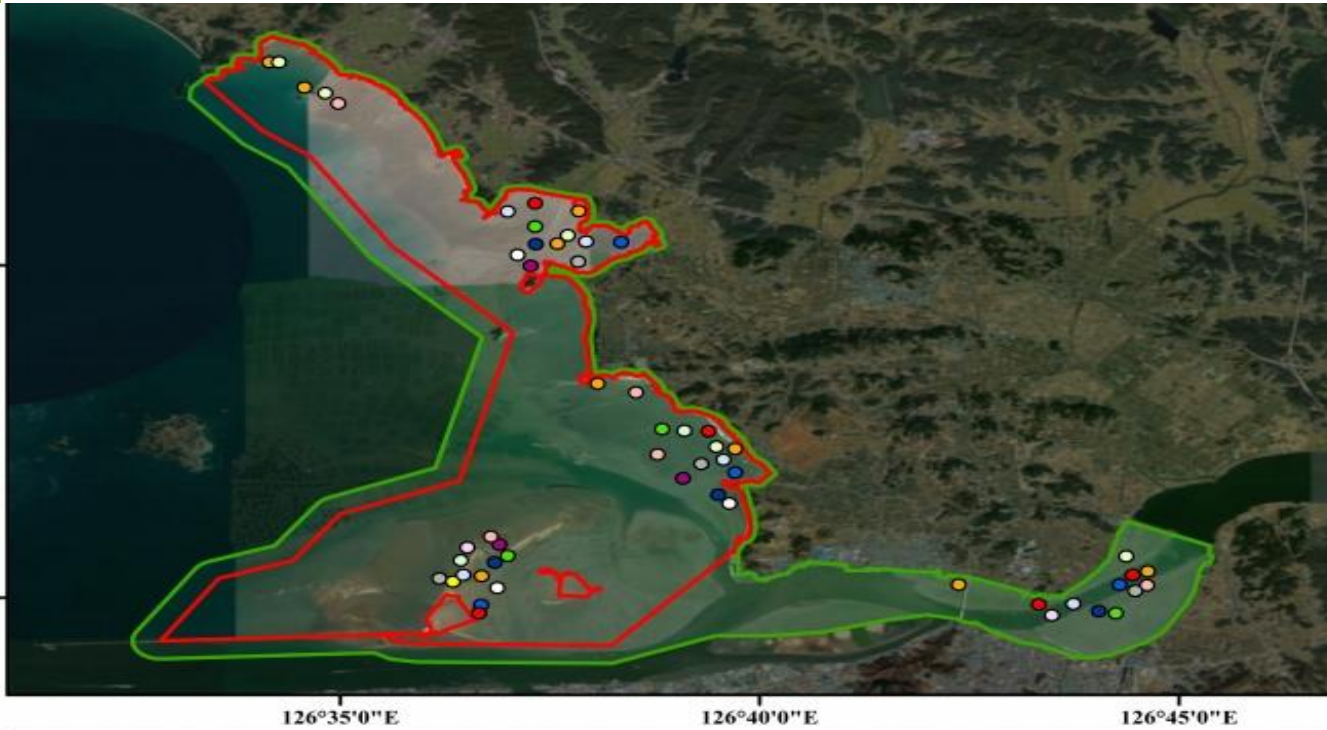
3 (Agree)

Culture

Seocheon mudflats embody local traditions.

3 (Agree)

Status of longbills/sandpipers in the Seocheon-gun mudflats (2016-2018)

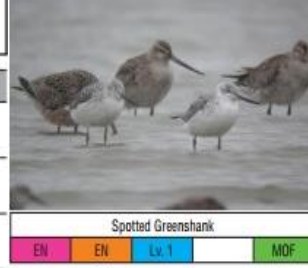
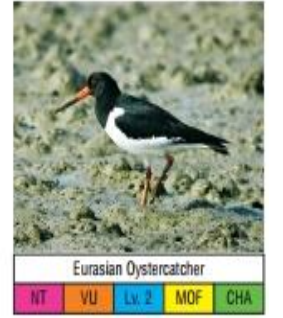
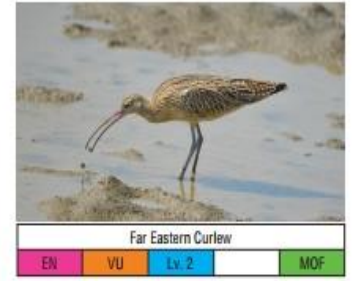
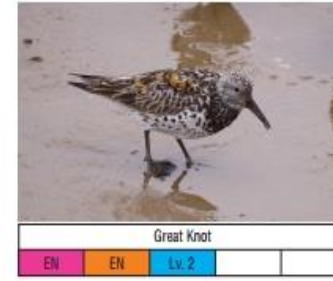
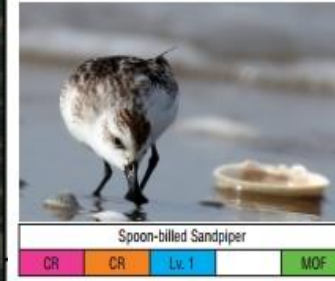


Legend

Property Area	Spoon-billed Sandpiper	Great Knot
Buffer Zone	Grey-tailed Tattler	Far Eastern Curlew
Swan Goose	Chinese Egret	Black-faced Spoonbill
Saunder's Gull	Red Knot	Red-necked Stint
Eurasian Oystercatcher	Curlew Sandpiper	Spotted Greenshank
		Bar-tailed Godwit

0 1 2 Km

Year	Mid of March	Mid of April	Beginning of May	End of August	Beginning of Sept.	End of Sept.	Mid of October
2016	9 species 8,151 ind.	22 species 46,348 ind.	21 species 41,113 ind.	21 species 18,123 ind.	24 species 22,173 ind.	20 species 17,723 ind.	18 species 24,122 ind.
2017	10 species 13,100 ind.	14 species 13,836 ind.	14 species 27,922 ind.	20 species 22,034 ind.	16 species 15,647 ind.	19 species 19,473 ind.	19 species 24,456 ind.
2018	9 species 7,533 ind.	19 species 49,015 ind.	20 species 24,603 ind.	21 species 17,156 ind.	22 species 16,899 ind.	17 species 18,894 ind.	15 species 16,569 ind.



넓적부리도요, 붉은어깨도요, 알락꼬리마도요
노랑발도요, 큰뒷부리도요, 흑꼬리도요, 마도요
붉은가슴도요, 붉은갯도요, 쯤도요, 검은머리물떼새
청다리도요사촌 (IUCN RED LIST)

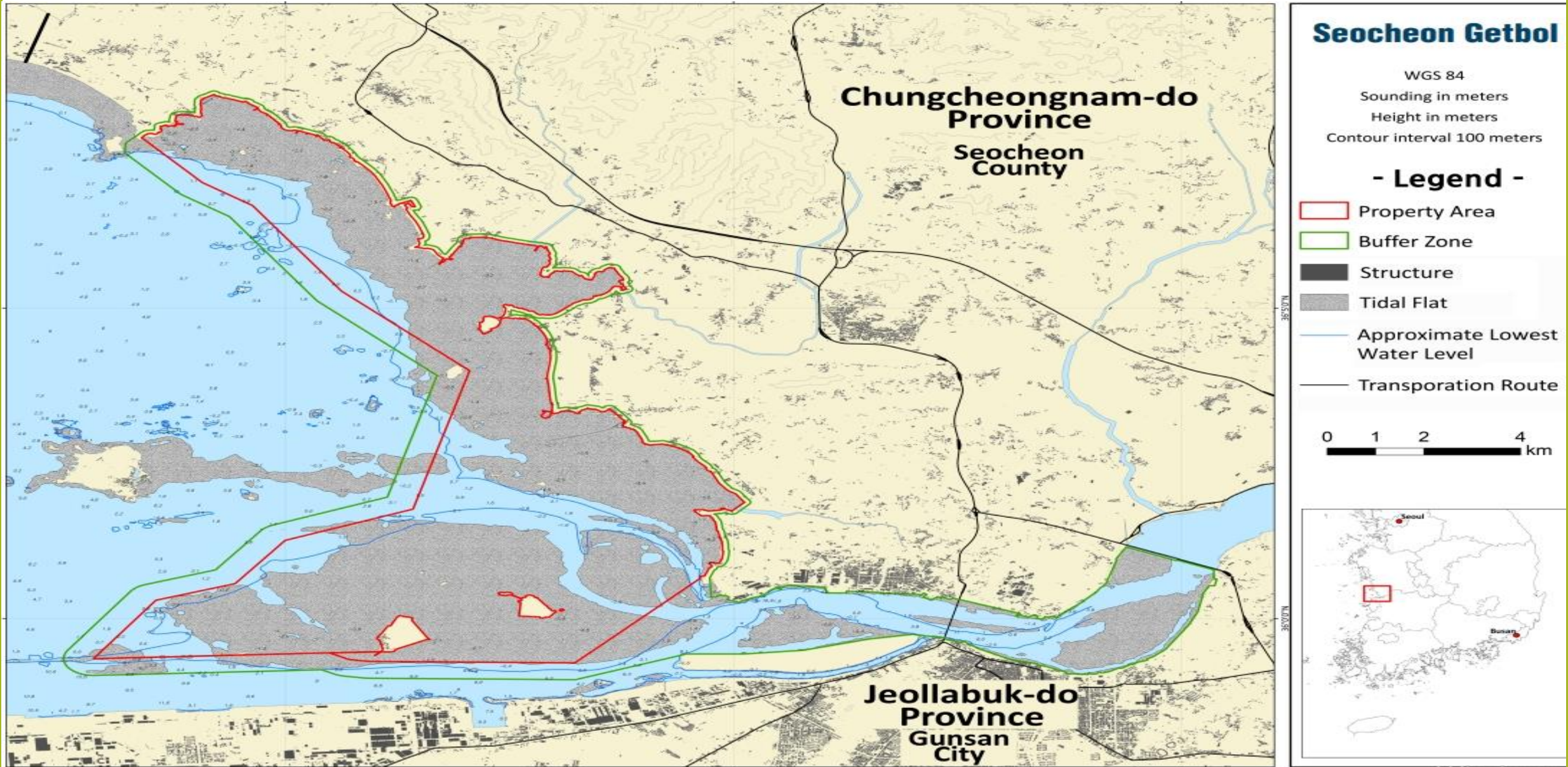
Outcomes of civilian monitoring of spoon-billed sandpiper

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Population	3	4	6	5	4	5	4	4	5	8



Aug. 31, 2019 (Yubudo Island)

Protection management system for the Seocheon-gun mudflats



◦ **Protection and management**

- In recognition of its outstanding conservation value (based on the economic benefits for local residents and value as a home to diverse life forms), an area of 15.3 square kilometers was designated as a protected wetland for the prevention of damage and sustainable use of the Seocheon-gun mudflats (2008)
- 2009: Designated as Ramsar Wetland to enable consistent management
- 2010: Mouth of Geumgang River registered on East Asia/Oceania Flyway website
- 2011: Yubudo Island registered on East Asia/Oceania Flyway website
- 2018: Area of the Seocheon-gun mudflats expanded to 68.09 sq. km.
- 2018: Designated as UNESCO Natural Heritage candidate
- 2019: On-site inspection of mudflats for designation as UNESCO Natural Heritage completed

Protection policy for the spoon-billed sandpiper

1. Preservation as first priority

- **Given the high value of the mudflats as a natural resource, the maintenance of the current situation is viewed as the best protective measure (as opposed to change, which may result in a decrease in value).**
- **Efforts are being made to shift the direction of current policy toward the formation of a social consensus on the high preservation value of the mudflats and, ultimately, the investment of more resources toward preservation-based enhancement.**
- **The aim is to establish legal grounds for the preservation of mudflat habitats and life forms in order to guarantee the maintenance of mudflat quality.**



2. Facilities to prevent the erosion of coastal wetlands

- Artificial structure installed (120,000 sq. m.) to prevent wetland erosion and create a stable saltwater wetland via natural sedimentation**
- Stability of the wetland ecosystem secured and its biodiversity enhanced**



3. Creation of buoy-type artificial rest areas

-Establishment of artificial (buoy-type) rest areas for spoon-billed sandpipers in cooperation with Birdlife International

-Provision of space for birds to rest during high tide

-Monitoring outcome: approx. 600 birds confirmed to be using rest areas (as of Sept. 2019)

-Location: Oknam-li, Maseo-myeon, Seocheon-gun, and one other location

-Budget: KRW 45 million (donation from Birdlife International)

-Area: 525 sq. m. (three areas of 175 sq. m. each)

4. Consistent monitoring of spoon-billed sandpipers

- Quarterly monitoring and writing of reports on the movements of spoon-billed sandpipers at Yubudo Island and the Seocheon mudflats
- Intensive monitoring in fall, which is when spoon-billed sandpipers come to Korea in large numbers, in order to accurately ascertain population size

► **Joint monitoring (Russia-Korea):** Establishment of bilateral cooperative network based on the fact that the Seocheon mudflats are a stopover site for spoon-billed sandpipers, for which preservation efforts are currently being made in Russia



Cooperative systems with international bodies

Seminar with international experts on seasonal bird



habitats 2019 서천 철새여행

철새서식지 국제 전문가 초빙 세미나

- 탐조 관광 활성화를 위한 철새서식지 효율적 관리 -



본 세미나는 철새이동 경로 내 다수의 파트너십 국가와 단체가 참여하는 국제 릴레이 인식 증진 행사인 "Welcome to the Birds"의 국내 행사의 일환으로 개최됩니다.



주최 서천군



주관



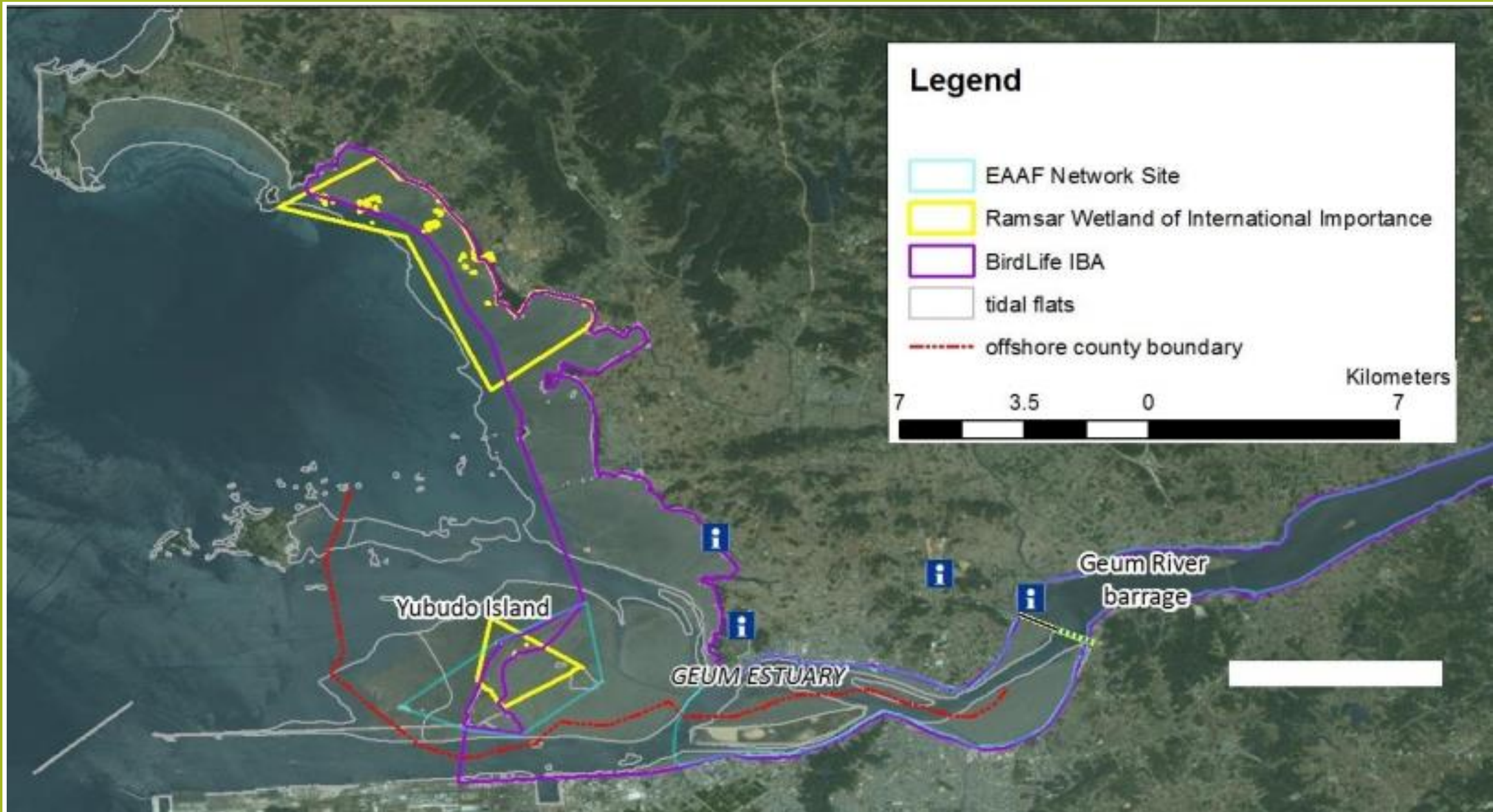
한국생태관광협회
Korea Ecotourism Society

협력 EAAFP



버드라이프인터내셔널





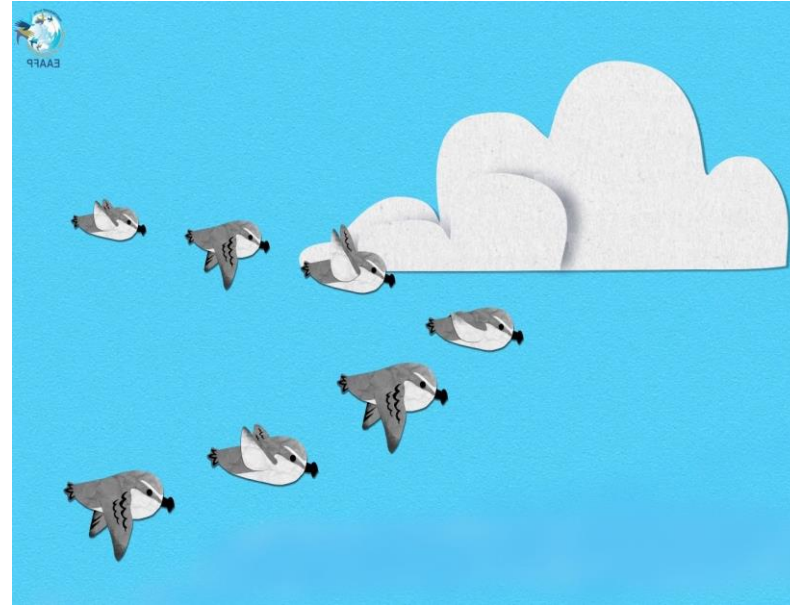
Educational activities to raise awareness of the spoon-billed sandpiper

No. 017



넙적부리도요 크기 : 15cm

* 멸종위기 야생생물 1급
보이는 곳 : 갯벌, 하구, 염전
먹이 : 갑각류, 곤충류, 거미류 등



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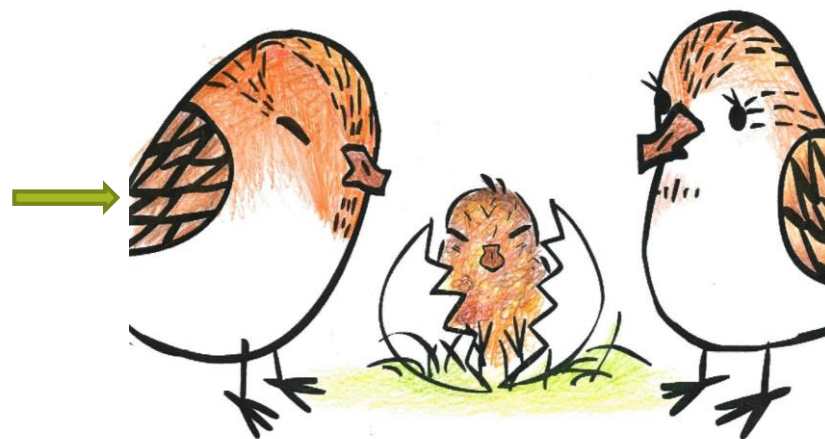




Figure 1. BirdLife International volunteers manning the Birdlife stand at MOF World Wetlands Day event at MABIK, Seocheon, ROK.

Promotional efforts to protect the spoon-billed sandpiper





Our Programs

Expert Program

Bird Watching in Yubudo

The wildlife birding program without disturbances people and nature each other in Yubudo where various migrant and migratory birds flock.



(Seocheon-gun Bird Eco Exhibition Hall → Yubudo)

Student Program

Journey to The World with longbill (Scolopacidae) :

The program that follows the flyway of the longbill along the East Asia to Oceania in National Institute of Ecology where is consist of 5 climate Biome.



(Marine Biodiversity Institute of Korea → National Institute of Ecology → Seocheon-gun Bird Eco Exhibition Hall)

Who are you, Seocheon tidal flat? :

Inspire the students that people are intimately connected to protist, benthic invertebrates, fishes and birds.

(Seocheon tidal flat → Marine Biodiversity Institute of Korea → Seocheon-gun Bird Eco Exhibition Hall)

Program For General

Eco-Bird Watching :

Understanding wildlife of migrant and migratory birds through the birding, and realizing function of their habitat.



(Seocheon tidal flat → Sky Walking Bridge → Geum River → Seocheon-gun Bird Eco Exhibition Hall)



Seocheon-gun Bird Eco Exhibition Hall

Providing environmental education and enhancing public awareness of the environment as the province education centre.

Constructing relationships, examining biological resources and data constructing as the wetland reserve centre of Korea.

Training environment interpreters and wetland interpreters.

Contact us

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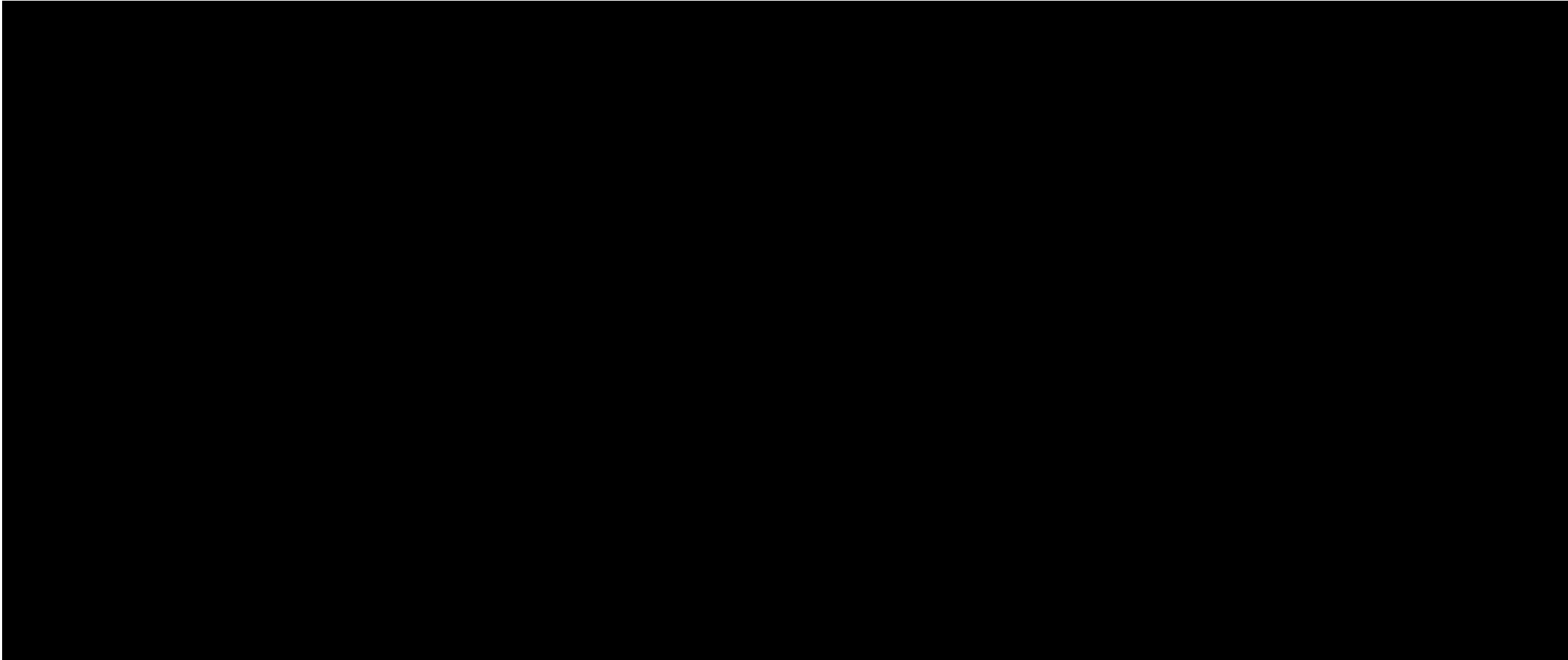
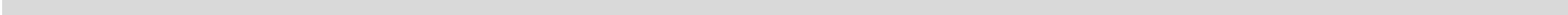
YUBUDO

(island)

'where birds and people complete one another'



Spoon-billed Sandpiper



유부도 갯벌은 전승되어야 할

자산이며,

삶의 터전입니다.



The mudflats of Yubudo Island represent not only an invaluable way of life for the island residents but are also an asset that must be handed down to future generations.

감사합니다

Thank you for your attention.