

YSLME MPA NETWORKING WORKSHOP

14-16 January 2019 • Dalian, Liaoning, PR China

Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

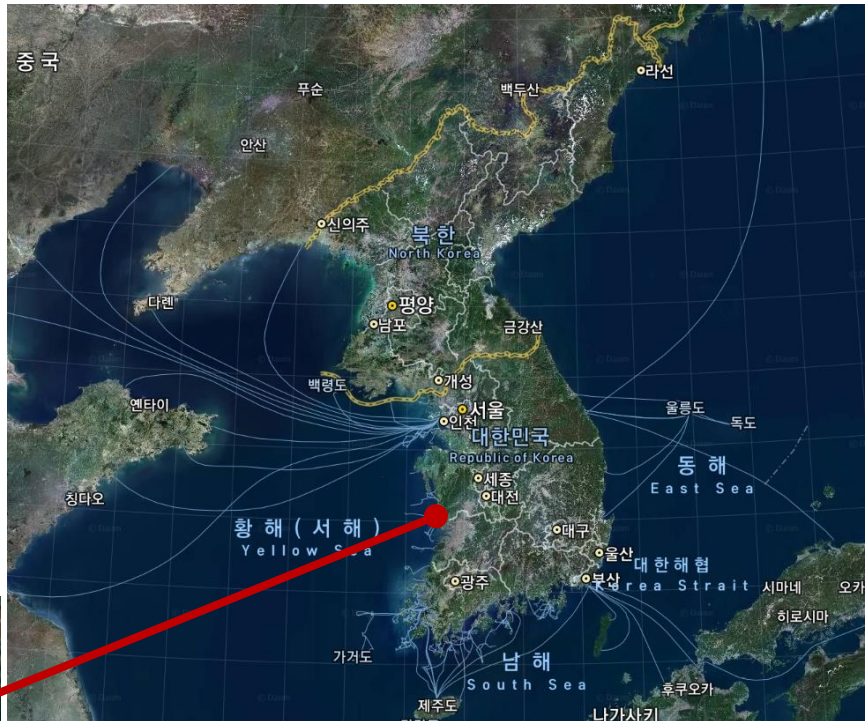
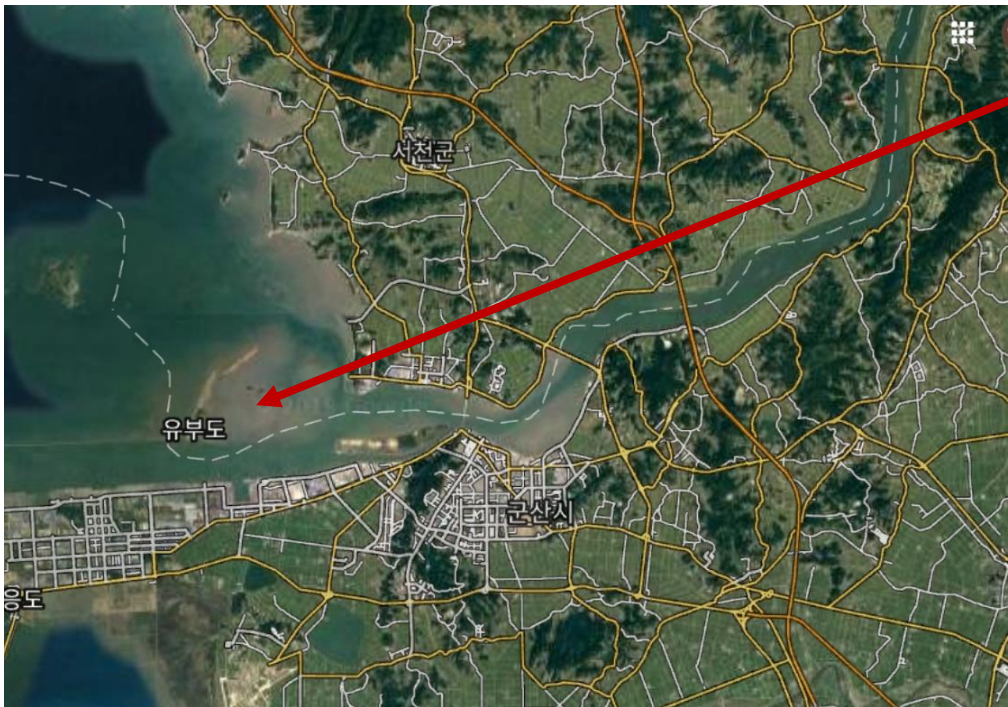
Eok-su Kim

Seocheon Ecological Culture Academy



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

1. Civilian monitoring of the marine protected area at the mouth of Geumgang River (Yubudo Island)

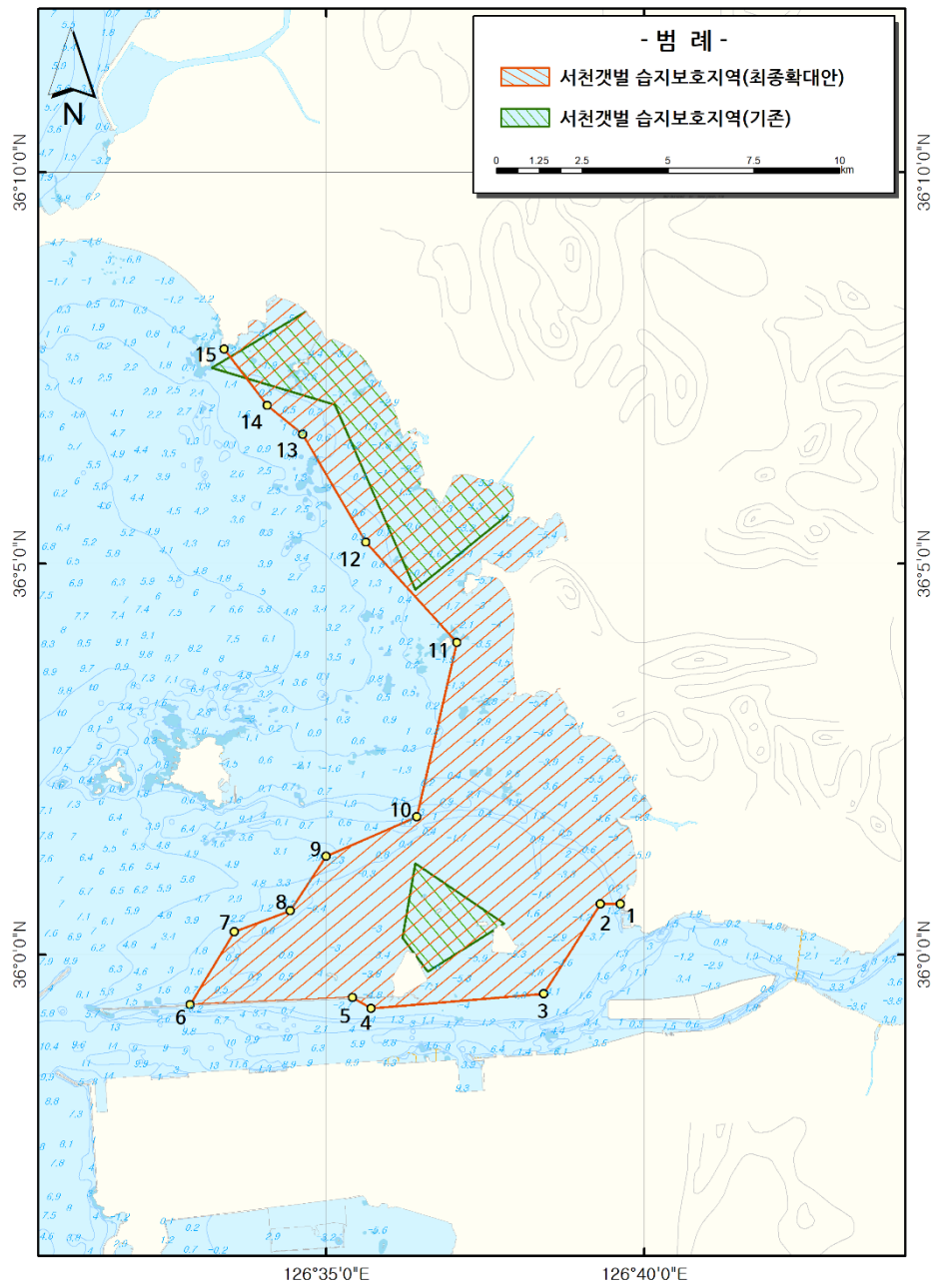


YSLME MPA NETWORKING WORKSHOP

14-16 January 2019 • Dalian, Liaoning, PR China



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)



- ✓ 2008: Designated as protected wetland (15.3 sq. km.)
- ✓ 2009: Registered as Ramsar Wetland
- ✓ 2018: Designated protected wetland area widened (68.09 sq. km.)



1. Civilian monitoring of the marine protected area at the mouth of Geumgang River (Yubudo Island)

- ✓ **Duration of project: 2009-2014**
- ✓ **Location: wetlands of Yubudo Island**
- ✓ **Objective**
 - Surveys are being undertaken by state research institutions and civic groups related to waterfowl, but the number of such surveys is inadequate due to a lack of accessibility and personnel. Due to such limitations, surveys are not being conducted systematically.
 - Monitoring is being conducted alongside educational activities for local residents.
 - Yubudo Island's ecological environment and history/culture are being

monitored.



YSLME MPA NETWORKING WORKSHOP

- **Items monitored: sediment, benthic organisms, birds, plants, and culture**



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

✓ Civilian monitoring (training)



**YSLME MPA NETWORKING
WORKSHOP**

14-16 January 2019 • Dalian, Liaoning, PR China



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

- ✓ **Civilian monitoring on Yudubo Island (birds)**

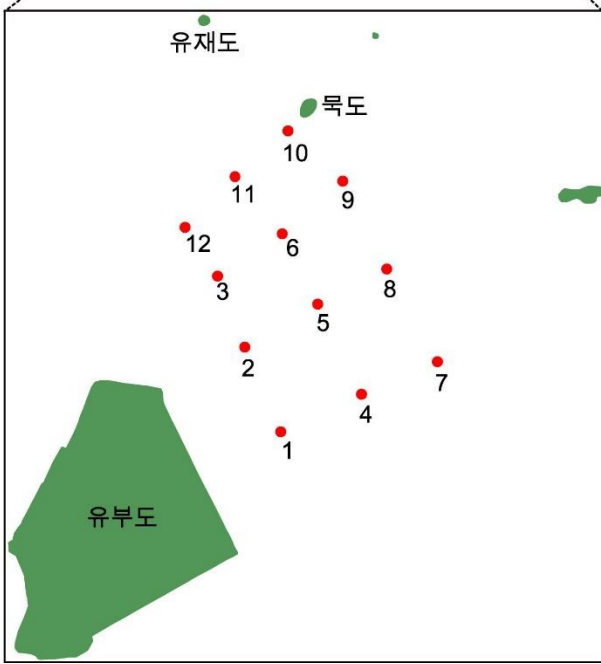
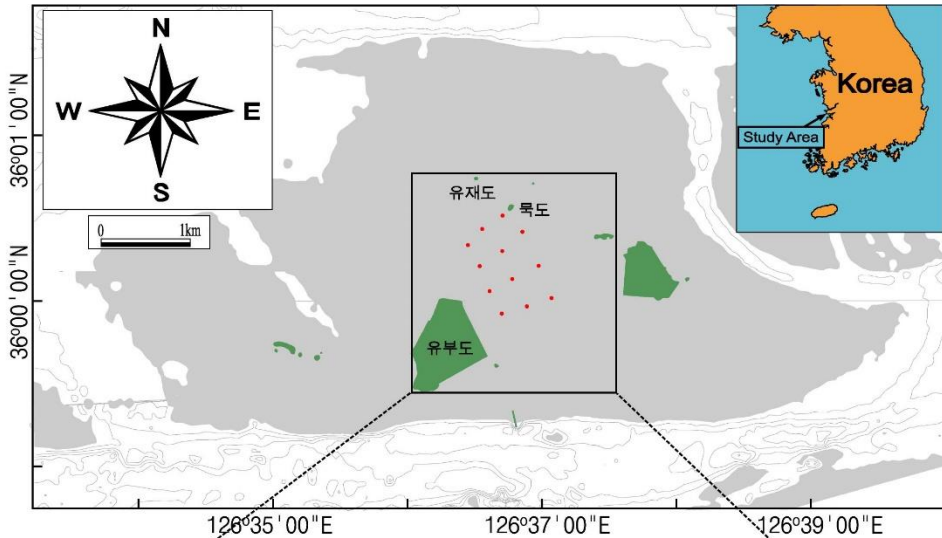


**YSLME MPA NETWORKING
WORKSHOP**

14-16 January 2019 • Dalian, Liaoning, PR China



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)



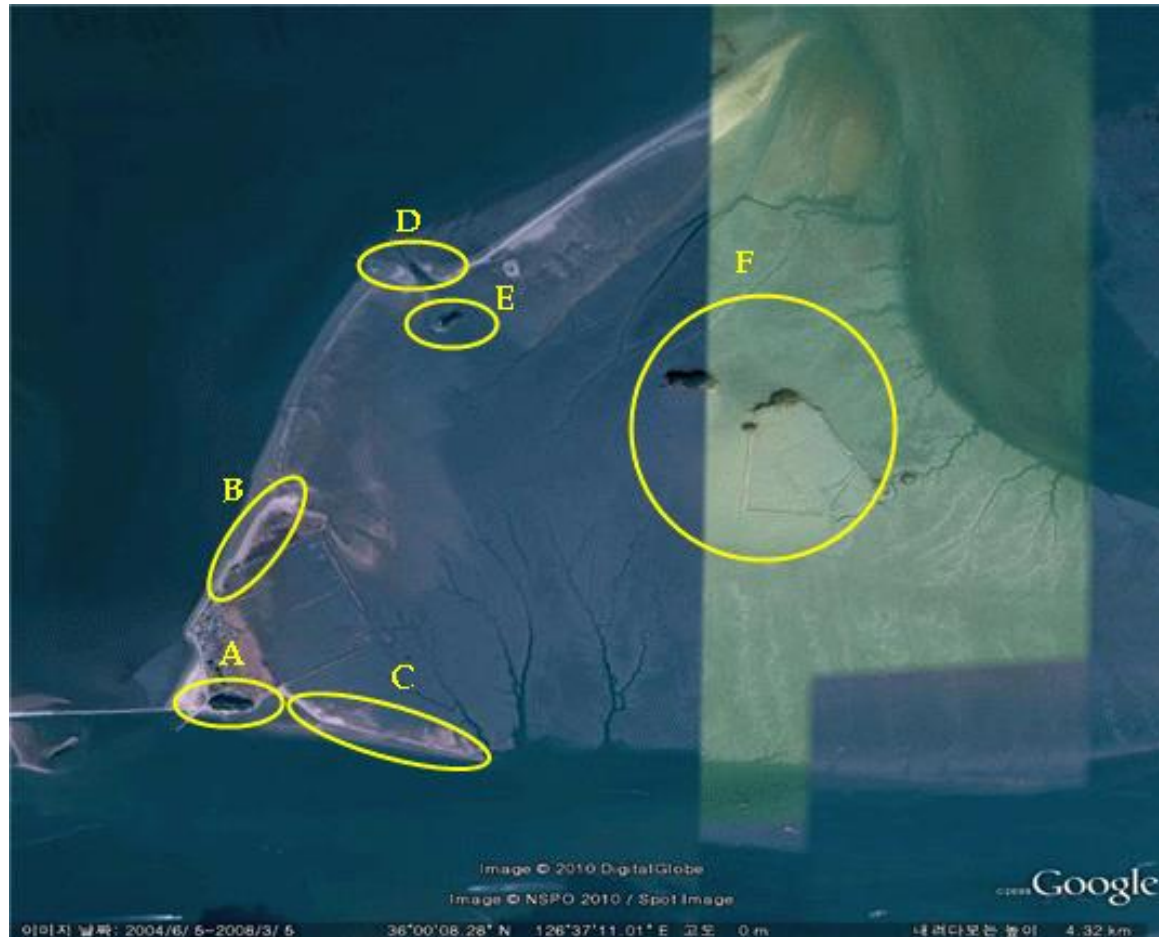
조사 정점

✓ **Civilian monitoring on Yubudo Island (sediment and benthic organisms)**



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

- ✓ **Civilian monitoring on Yudubo Island (plants)**



**YSLME MPA NETWORKING
WORKSHOP**

14-16 January 2019 • Dalian, Liaoning, PR China



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

✓ Civilian monitoring on Yudubo Island (history and culture)



Interview of residents



Ongpyeon on the floor of salt flats



A well



Discarded oyster shells



Geraengi-jil



Jangdok (clay jars)



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

해양보호구역 시민모니터링

용역보고서

[서천갯벌 습지보호지역]



2010. 12

KOEM 해양환경관리공단

✓ **Publication of report on the outcomes of civilian monitoring**

• 2019-2014

**YSLME MPA NETWORKING
WORKSHOP**

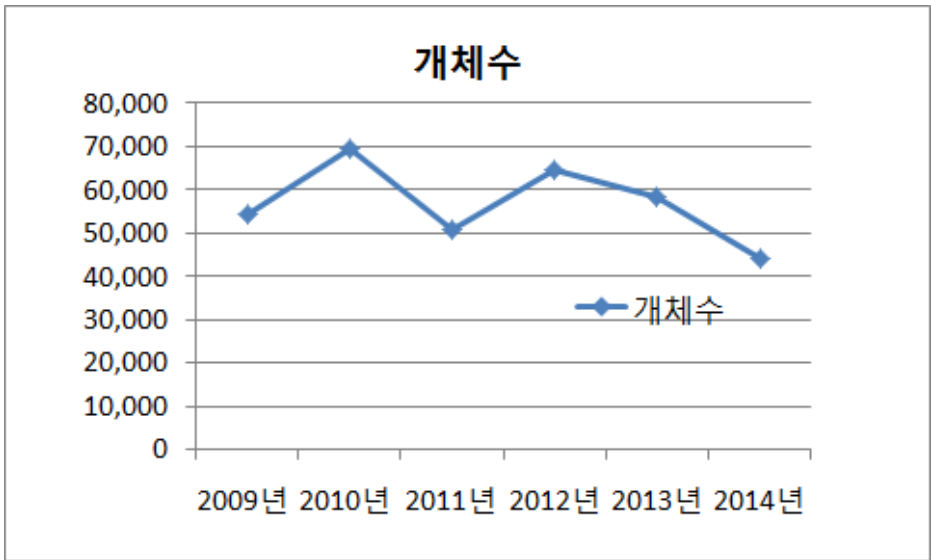
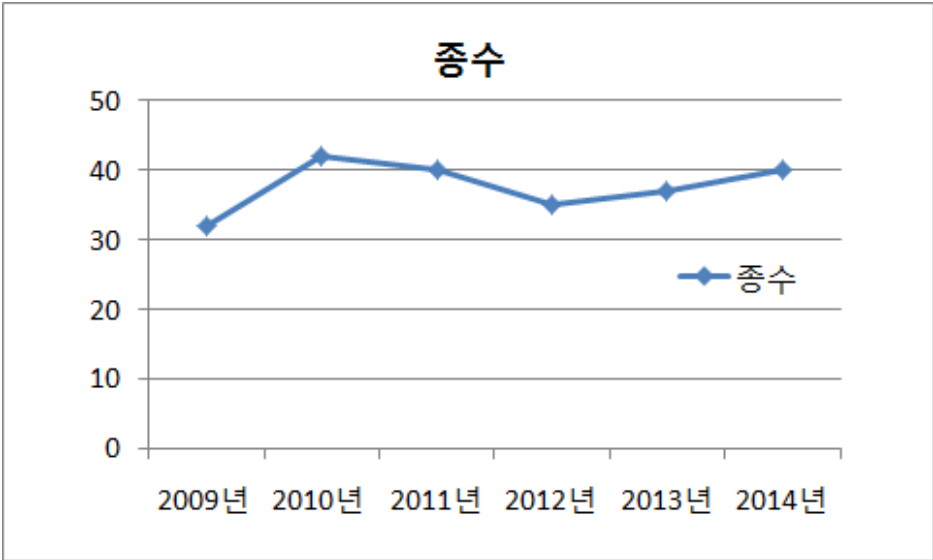
14-16 January 2019 • Dalian, Liaoning, PR China



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

✓ **Comparison of species and population numbers based on surveys of waterfowl on Yubudo Island (2009-2014)**

	2009	2010	2011	2012	2013	2014
No. of species	32	42	40	35	37	40
Population	54,188	69,413	50,671	64,507	58,545	44,167



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

✓ IUCN-designated endangered species and protected species (Korea) of waterfowl

observed at Geumgang River (2009-2015)				
Scientific name	Common name	IUCN endangered species designation	Endangered species designation (Ministry of Environment)	Natural Monument designation (Cultural Heritage Administration)
<i>Anser cygnoides</i>	Swan goose	VU	ENII	NM
<i>Anser fabalis</i>	Bean goose		ENII	
<i>Cygnus cygnus</i>	Whooper swan		ENII	NM
<i>Platalea leucorodia</i>	Eurasian spoonbill		ENII	NM
<i>Platalea minor</i>	Black-faced spoonbill	EN	EN I	NM
<i>Egretta eulophotes</i>	Chinese egret	VU	EN I	NM
<i>Pandion haliaetus</i>	Osprey		ENII	
<i>Accipiter nisus</i>	Eurasian sparrowhawk		ENII	NM
<i>Haematopus ostralegus</i>	Eurasian oystercatcher	NT	ENII	NM
<i>Charadrius placidus</i>	Long-billed plover		ENII	
<i>Limosa lapponica</i>	Bar-tailed godwit	NT		
<i>Numenius madagascariensis</i>	Far Eastern curlew	EN	ENII	
<i>Tringa guttifer</i>	Nordmann's greenshank	EN	EN I	
<i>Calidris canutus</i>	Red knot	NT		

YSLME MPA NETWORKING WORKSHOP

14-16 January 2019 • Dalian, Liaoning, PR China



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)
 ✓ IUCN-designated endangered species and protected species (Korea) of waterfowl observed at Geumgang River (2009-2015)

Scientific name	Common name	IUCN endangered species designation	Endangered species designation (Ministry of Environment)	Natural Monument designation (Cultural Heritage Administration)
<i>Calidris tenuirostris</i>	Great knot	EN		
<i>Calidris ruficollis</i>	Red-necked stint	NT		
<i>Calidris ferruginea</i>	Curlew sandpiper	NT		
<i>Eurynorhynchus pygmeus</i>	Spoon-billed sandpiper	CR	EN I	
<i>Larus saundersi</i>	Saunders's gull	VU	ENII	
<i>Falco tinnunculus</i>	Common kestrel			NM
<i>Falco subbuteo</i>	Eurasian hobby		ENII	
<i>Falco peregrinus</i>	Peregrine falcon		EN I	NM
	Total	13	16	9
CR (Critically Endangered), EN (Endangered), VU (Vulnerable), and NT (Near Threatened)				

- Waterfowl: 17 species / Birds of prey: 5 species
- IUCN-designated (CR: 1 species, EN: 4 species, VU: 3 species, NT: 5 species), Ministry of Environment-designated (EN I: 5 species, EN II: 11 species), Cultural Heritage Administration-designated (NM: 9 species)

YSLIME MPA NETWORKING WORKSHOP

• Dalian, Liaoning, PR China



2. Operation of Yubudo Sustainable Development Committee

- ✓ **Duration of project: Sept. to Nov. 2017**
- ✓ **Location: mudflats of Yubudo Island**
- ✓ **Objective**
 - Discussion of knowledge on and importance of the ecological culture of Yubudo Island
 - Formation of public-private-expert-civic group governance for the sustainable development of Yubudo Island
 - Proposal of methods for the sustainable development of Yubudo Island
- ✓ **Participating parties**
 - Yubudo Island residents, Seocheon-gun, National Institute of Ecology, National Marine Biodiversity Institute of Korea, ChungNam Institute, Seocheon Ecological Culture Academy, Seocheon-gun Sustainable Development Council, etc.



2. Operation of Yubudo Sustainable Development Committee

- ✓ Benthic Ecosystem of Yubudo Mudflats (Sept. 19, 2017)
- ✓ Discussion of the status and methods for preserving the birds of Yubudo (Oct. 24, 2017)
- ✓ Policy on Yubudo by Seocheon-gun (Nov. 6, 2017)
- ✓ Methods for revitalizing the ecological tourism resources of Yubudo (Nov. 6, 2017)
- ✓ Composition and operation of Yubudo Sustainable Development Committee (Nov. 21, 2017)



Yubudo Sustainable Development Report

YSLME MPA NETWORKING
WORKSHOP

14-16 January 2019 • Dalian, Liaoning, PR China



3. Ecological restoration of the mouth of Geumgang River



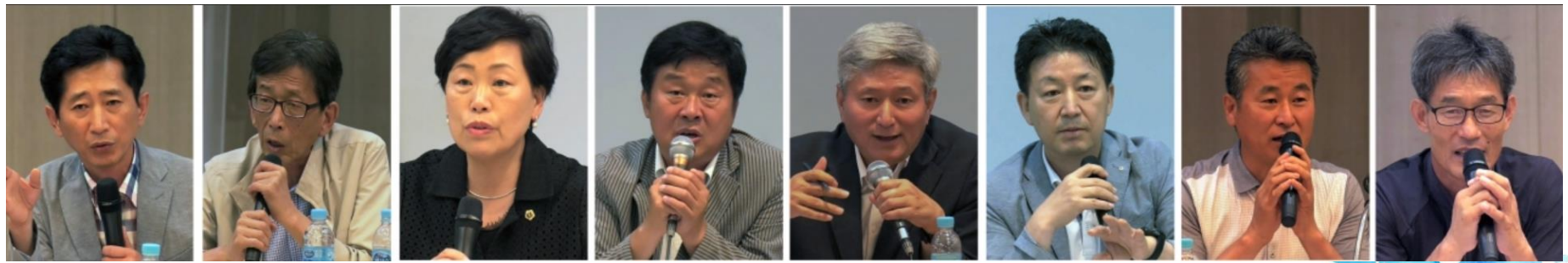
- ✓ 1990: Construction of estuary embankment for Geumgang River
- ✓ Problems: decline in water quality, decrease in biodiversity, sedimentation, chlorosis of laver, and downturn of fishing industry
- ✓ Changes in mudflat ecosystem influencing the food supply for spoon-billed sandpipers



Policies and efforts of Seocheon-gun to preserve seasonal birds (including the spoon-billed sandpiper)

3. Ecological restoration of the mouth of Geumgang River

- ✓ Founding of Geumgang River Ecological Restoration Committee (July 19, 2019)



Thank You!

**YSLME MPA NETWORKING
WORKSHOP**

14-16 January 2019 • Dalian, Liaoning, PR China

