# Wetland Protected Area in Republic of Korea (Gochang, Muan, Suncheon bay tidal flat)

2018.12.20.(THU)

Taecheol Jang

Marine Protected Area Center

Korea Marine Environment Management Corporation

1. Review of management plans / strategies (Muan tidal flat wetland protected area)

#### **Basic information**

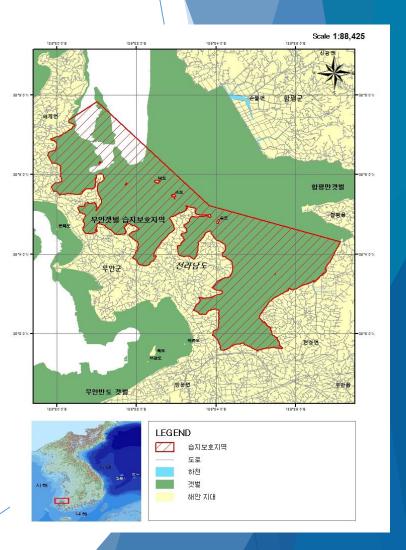
Country	Republic of Korea		
Name of the MPA	Muan Tidal-flat Wetland Protected Area		
Location	Muan-gun, Jeollanam-do, Republic of Korea		
Site area (km²)	42km <sup>2</sup>		
Marine components	intertidal (sand and mudflat)		
Year of establishment	2001-12-28		
Related Law	Wetland Conservation Law		



Long-legged octopus
(Octopus minor)







1. Review of management plans / strategies (Suncheon bay tidal flat wetland protected area)

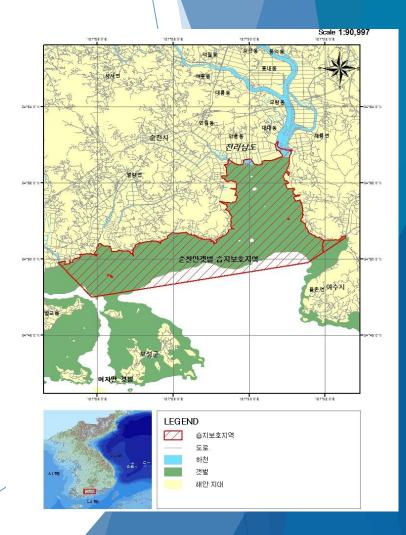
#### **Basic information**

Country	Republic of Korea		
Name of the MPA	Suncheon bay Tidal-flat Wetland Protected Area		
Location	Suncheon-si, Jeollanam-do, Republic of Korea		
Site area (km²)	28km²		
Marine components	intertidal (sand and mudflat)		
Year of establishment	2003-12-31		
Related Law	Wetland Conservation Law		









1. Review of management plans / strategies of the selected NEAMPAN site (Gochang tidal flat wetland protected area)

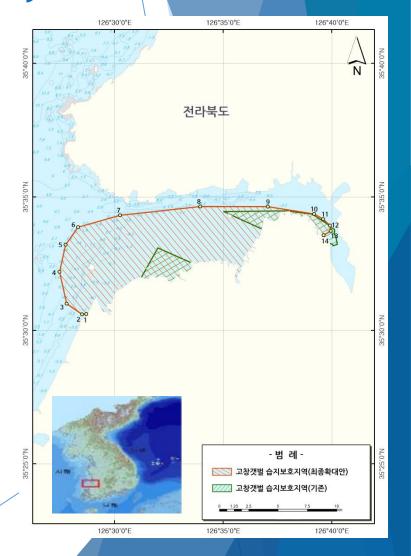
#### **Basic information**

Country	Republic of Korea		
Name of the MPA	Gochang Tidal-flat Wetland Protected Area		
Location	Gochang-gun, Jeollabuk-do, Republic of Korea		
Site area (km²)	64.66km²		
Marine components	intertidal (sand and mudflat)		
Year of establishment	2018-09-03		
Related Law	Wetland Conservation Law		









- 1. Review of management plans / strategies (Muan tidal flat wetland protected area)
  - > Muan Tidal flat wetland protected area management master plan(2016, MOF)
  - <Management Strategy> 4 strategies, 13 detailed project plans
    - [Goal] Harmony of Wetland and Human of Sustainable Development of Muan Tidal Flat
    - Strategy 1: Conservation and Management of Nature Resources
      - → 4 Detailed project plans
    - Strategy 2: Activation on a Muan Ecological tidalflat center
      - → 4 Detailed project plans
    - Strategy 3: Enhancement of Muan tidalflat management Governance with stakeholders participation
      - → 2 Detailed project plans
    - Strategy 4: Management of Quality of life of stakeholders
      - → 3 Detailed project plans

- Review of management plans / strategies (Suncheon bay tidal flat wetland protected area)
  - > Suncheon bay Tidal flat wetland protected area management master plan(2018, MOF/KOEM)
  - <Management Strategy> 4 strategies, 17 detailed project plans / total budget: \$45,773,200/5years

[Goal] Sustainable Development of Suncheon bay tidal flat wetland protected area of Ecology Capital

- Strategy 1: Conservation
  - → 5 Detailed project plans
- Strategy 2: Management
  - → 5 Detailed project plans
- Strategy 3: Capacity
  - → 3 Detailed project plans
- Strategy 4: Abundant
  - → 4 Detailed project plans

- 1. Review of management plans / strategies (Gochang tidal flat wetland protected area)
  - Gochang tidal flat wetland protected area management master plan(2013, MOF/ROOF)
  - <Management Strategy> 5 strategies, 25 detailed project plans / total budget: \$5,579,200
    - Strategy 1: Committee Activation
  - → 2 Detailed project plans
    - Strategy 2: Management of pollution source
      - → 5 Detailed project plans
    - Strategy 3: Resource Management
      - → 5 Detailed project plans
    - Strategy 4: Awareness inceasing and residents capacity building
      - → 6 Detailed project plans
    - Strategy 5: Operating tidal flat visitor center
      - → 7 Detailed project plans

Monitoring parameters (related to outline 2.1)

> 2017 National Marine Ecosystem Monitoring Program(Annual)

#### <Monitoring parameters>

- 1. Sedimentary Environments (granularity, organic matter concentration, trace metals concentration)
- 2. Macrobenthic Animals (number of species, inhabitation density, biomass, )
- 3. Salt Plants

(character species, companion species, vegetation area, colony area, dry weight)

4. Sea Birds

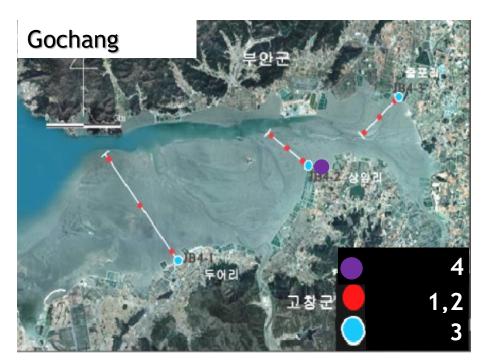
(number of individuals, number of species, dominance value, species diversity)

5. Residents Awareness(survey method)

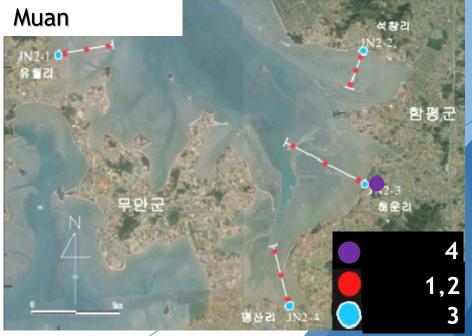


Monitoring parameters (related to outline 2.1)

- > 2017 National Marine Ecosystem Monitoring Program(Annual)
  - 1. Sedimentary Environments
  - 2. Macrobenthic Animals
  - 3. Salt Marshes (Salt Plants)
  - 4. Sea Birds
  - 5. Residents Awareness (survey method)







### Evaluation of data (related to outline 2.2)

Annual Management Evaluation Process (Updated in 2018)

Main Agent: Regional office of oceans and fisheries

Write and Submit Review and Apply Evaluation Gather and Submit **Review Evaluation** self-evaluation Submit evaluation Results to projects evaluation results Results results results budget RLG ROOF BLG MOF/KOEM MOF  $\rightarrow RLG$ → ROOF  $\rightarrow$  MOF

BLG: Basic Local Government

RLG: Regional Local Government

ROOF: Regional Office of Oceans and Fisheries

MOF: Ministry of Oceans and Fisheries

KOEM: Korea Marine Environment Management Corporation

# Evaluation of data (related to outline 2.2)

Annual Management Evaluation Form (Updated in 2018)

Management Category(Score)	Evaluation Indicator	Score
Management base (2)	Composition of Regional Management Committee	Composition: 1 None: 0 *Establishment of Regional Regulation : add 1
	Host result of Regional Management Committee Meeting <fuctions committee="" management="" of="" regional=""> 1. Establishment and Amendment of a management master plan 2. Establishment and Amendment of annual detailed project plans 3. Evaluation of management project results</fuctions>	Twice: 1 Once: 0.5 None: 0
Projects Effect (3)	Development efforts of MPA project effect <project category=""> 1. CEPA efforts and outcomes 2. Site Management and Environment conservation efforts and outcomes 3. Supporting resident and Providing benefit efforts and outcomes</project>	Very good: 3. Good: 2.5 Normal: 2 Insufficient: 1
Budget Execution (3)	Annual Rate of Budget Execution	90%~:3 / 80%-90%:2.5 / 70%-80%:2.0 / 60%-70%:1.5 / ~60%:0
Participation (2)	Did MPA Manager (Basic local government manager) participate workshops or capacity building programs?	participation : 1 None : 0
	Did MPA Stakeholders(residents, NGO) participate workshops or capacity building programs?	participation : 1 None : 0

### Assessment of data (related to outline 2.2)

Mid-term Management Effectiveness Evaluation Process(quinquennials)
 Main Agent: Korea Marine Environment Management Corporation

Advanced Review of Site evaluation resoreces

Evaluation expert group

On-site evaluation discussion meeting (Quantative and Qualitive evaluation)

Evaluation expert group, stakeholder

Share a result of evaluation

KOEM -> MOF, ROOF, RLG, BLG

Application of evaluation result on next management master plan

**ROOF** 

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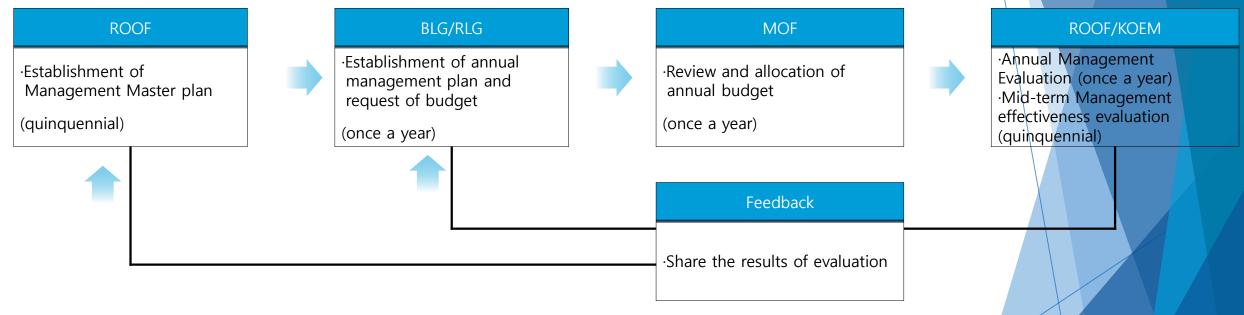
# Assessment of data (related to outline 2.2)

Mid-term Management Effectiveness Evaluation Form(quinquennials): 5 categories, 17 questions

Question	Score(Likert Scale, 1-5)
MPA regulation	
Secure of MPA information	
Level of stakeholder awareness	
MPA Goal	
Understanding of status of use and threat factors	
Establishment of Conservation and Management plan	
Research and Monitoring	
Management human resoreces	
Secure of budget	
Stakeholder communication	
Management and supervision of regulation observance	
Education and Awareness increasing Program	
Education and capacity building of Management staff	
Supplement of public relations(PR) and information resources	
maintain of purpose of MPA degisnation	
Management of conflict factors	
Appropriateness of charging management price and input of income	
	MPA regulation Secure of MPA information Level of stakeholder awareness MPA Goal Understanding of status of use and threat factors Establishment of Conservation and Management plan Research and Monitoring Management human resoreces Secure of budget Stakeholder communication Management and supervision of regulation observance Education and Awareness increasing Program Education and capacity building of Management staff Supplement of public relations(PR) and information resources maintain of purpose of MPA degisnation Management of conflict factors

## 3. Feedback of assessment results to management plans and practices

- (Annual Evaluation) Application of result: Review annual projects budget
- (Mid-term Evaluation) Application of result: Management master plan establishment



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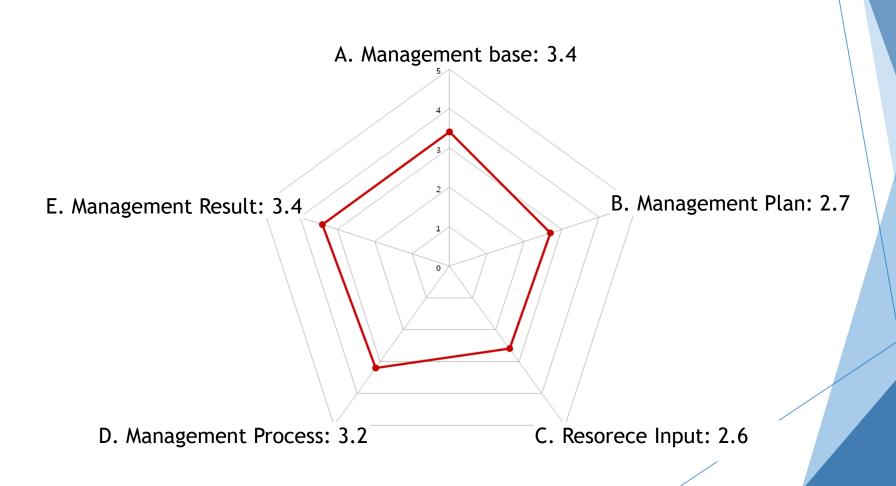
# 4. Case studies

# ➤ Gochang tidal flat wetland protected area MEE Results(2017)

<b>Division</b>	Score	Section average	Average
MPA regulation	4	3.4	3.1
Secure of MPA information	2		
Level of stakeholder awareness	3.5		
MPA Goal	3		
Understanding of status of use and threat factors	2		
Establishment of Conservation and Management plan	3		
Research and Monitoring	2	2.6	
Management human resoreces	3		
Secure of budget	2.3		
Stakeholder communication	3.5	3.2	
Management and supervision of regulation observance	2.7		
Education and Awareness increasing Program	3.5		
Education and capacity building of Management staff	3.5		
Supplement of public relations(PR) and information resources	3		
maintain of purpose of MPA degisnation	3.5		
Management of conflict factors	3.7	3.4	
Appropriateness of charging management price and input of income	3.2		
	MPA regulation Secure of MPA information Level of stakeholder awareness MPA Goal Understanding of status of use and threat factors Establishment of Conservation and Management plan Research and Monitoring Management human resoreces Secure of budget Stakeholder communication Management and supervision of regulation observance Education and Awareness increasing Program Education and capacity building of Management staff Supplement of public relations(PR) and information resources maintain of purpose of MPA degisnation	MPA regulation 4 Secure of MPA information 2 Level of stakeholder awareness 3.5 MPA Goal 3 Understanding of status of use and threat factors 2 Establishment of Conservation and Management plan 3 Research and Monitoring 2 Management human resoreces 3 Secure of budget 2.3 Stakeholder communication 3.5 Management and supervision of regulation observance 2.7 Education and Awareness increasing Program 3.5 Education and capacity building of Management staff 3.5 Supplement of public relations(PR) and information resources 3 maintain of purpose of MPA degisnation 3.5 Management of conflict factors 3.7	MPA regulation  Secure of MPA information  Level of stakeholder awareness  MPA Goal  Understanding of status of use and threat factors  Establishment of Conservation and Management plan  Research and Monitoring  Management human resoreces  Secure of budget  Stakeholder communication  Management and supervision of regulation observance  Education and Awareness increasing Program  Supplement of public relations(PR) and information resources  maintain of purpose of MPA degisnation  Management of conflict factors  Management of conflict factors  3.4  Asserbed average  average

### 4. Case studies

Gochang tidal flat wetland protected area MEE Results(2017)



# For information:

# Meeting objectives

- 1. To ensure the coherence of the studies
- 2. To share preliminary view of the study
- 3. To share availability of information and expected challenges in the study
- 4. To discuss any adjustments needed for the outline of the study

# Outline of the study (as in the TOR)

- 1. Review of management plans / strategies of the selected NEAMPAN site
- 1.1 Basic information of the target MPA
- 1.2 Background of strategic / management plan of the target MPA
- 1.3 Objective of MPA management plan
- 1.4 Key contents of the management plans
- 2. Monitoring and assessment of designated MPAs
- 2.1 Monitoring parameters
  - 2.1.1 Areas addressed by the monitoring parameters: biological, socio-economic, environmental
  - 2.1.2 Monitoring bodies and collection of data
- 2.2 Assessment of data
  - 2.2.1 Assessment criteria and responsibilities: How and who evaluate the monitored data
  - 2.2.2 Assessment against goals and indicators: How the evaluation / assessment is made against goals / indicators identified (if any) in the strategic / management plan
- 2.3 Links between monitoring/assessment results and management
  - 2.3.1 Use of monitoring data: How it used for assessment, how monitoring results are followed up or reflected in the future plans / strategies
  - 2.3.2 Institutional aspects: Parties involved in the management of MPAs (implementation of plans, monitoring the implementation, etc.)
- 3. Feedback of assessment results to management plans and practices
- 4. Case studies monitoring and assessment results and corresponding measures in the selected MPA

