

국외출장 결과보고서

구 분	내 역					
출장자	소속	해양연구본부	성명	남정호	직급	선임연구위원
	소속		성명		직급	
	소속		성명		직급	
출장목적 (중복선택 가능)	☐ 현지조사(현장, 전문가 회의) ☐ 국제행사 주최 ☐ 국제행사 참가 ☐ 국제회의(정부대표단) 참석 ☒ 세미나, 교육, 훈련 ☐ 기타 ()					
관련사업 (예산항목)	없음					
출장기간	2026. 6. 7. ~ 2026. 6. 15.			출장지	스리랑카(콜롬보)	
출장일정	일자	방문지		주요업무*		항공편
	2026.6.7.-6.8	콜롬보(NH Collection)		이동 및 교육 준비		
	2026.9.-6.12	콜롬보(NH Collection)		교육		
	2026.6.13	콜롬보(NH Collection)		정리 회의		
	2026.6.14.-15	이동		이동		
출장성과	○ 출장목적 달성 정도 - 100%(4일 간 해양공간계획에 대해 16개 강의 수행) ○ 주요 성과 - 스리랑카 대학교수, 연구원, 관련 공무원, 학생 등 21명 대상 해양공간계획 강의 ※ Outcome은 p. 8-9 참고					
향후계획	○ 출장 성과 공유 계획 - 원내 해당 분야 교육수요가 있을 경우 세미나를 통해 원내 공유 ○ 정책화 등 활용 계획 - 해양정책분야 ODA 사업 중 KSP 또는 역량강화 사업에 활용 가능					
참고 등 특이사항 (건의사항)	○ 우리나라 보다 연안통합관리 정책을 먼저 시행하였으나, 현재 전체 해양공간에 대한 통합적 관리체제 부재 ○ 해양데이터 센터를 구축하는 ODA 사업이 올해 말 종료된 후 이를 활용하기 위한 정책분야 협력 사업 발굴 및 시행 필요					

* 주요업무 수행 결과 별지 작성 후 첨부

주요 업무내용 결과

업무유형	☐ 현지조사(현장, 전문가 회의) ☐ 국제행사 주최 ☐ 국제행사 참가 ☐ 국제회의(정부대표단) 참석 ☒ 세미나, 교육, 훈련 ☐ 기타 ()
업무①	6.9.(화) 오전
수행계획	○ 강의 개요 ○ 계획과 계획 수립 과정 이해 ※ 프로그램 내용은 <첨부> 세부일정 자료 참고
수행결과	 

주요 업무내용 결과

Journey 1-1 for MSP, 9 June 2026, NH Collection in Colombo

- ✓ Opening and Participants Introduction 20'
- ✓ Previous Cooperation on ODA prototype development 15'
- ✓ Introduction of the Communication Program and Formation of Groups 15'
- ✓ Sharing Concepts on Plan and Planning 40'



주요 업무내용 결과

업무②	6.9.(화) 오전	
수행계획	○ 해양공간계획의 이해 - 개념과 배경 - 계획 수립 및 시행 과정 - 관리 수단	
수행결과	Journey 1-2 for MSP, 9 June 2026, NH Collection in Colombo 1-2 Understanding of MSP ✓ Concept and backgrounds 30' ✓ Planning and Implementation Process 40' ✓ Management Measures 20'	
업무③	6.9.(화) 오후	
수행계획	○ 해양공간계획 국제동향 / 스리랑카 해양공간계획 관련 제도 ○ 스리랑카 연안해양공간관리 이슈 도출(사례지역)	
수행결과	Journey 1-3 for MSP, 9 June 2026, NH Collection in Colombo 1-3 MSP International and Sri Lanka ✓ MSP Global 30' ✓ International Entities' CMSP policy 30' ✓ Int'l Legal Framework and Sri Lanka's Commitment 30' Journey 1-4 for MSP, 9 June 2026, NH Collection in Colombo 1-4 Issue Identification for CMSP of Sri Lanka ✓ Group discussion and sharing with colleagues	

주요 업무내용 결과

업무④	6.10.(수) 오전
수행계획	○ 데이터/정보와 해양공간계획, 해양공간계획 지원 Tool ○ 데이터 부족 상황에서 해양공간계획 수립-캄보디아 사례
수행결과	Journey 2-1 for MSP, 10 June 2026, NH Collection in Colombo 2-1 Data/Information and MSP ✓ Why Data and MSDI ✓ Tools for MSP
	Journey 2-2 for MSP, 10 June 2026, NH Collection in Colombo 2-2 MSP under less Data - Cambodian case ✓ Overview on RTF in Cambodia ✓ Training for Planning ✓ MSA for Sea Use Zoning ✓ Scientific Survey and Valuation ✓ Recommendations
업무⑤	6.10(수) 오후
수행계획	○ 한국의 연안 및 해양공간계획(1) - 연안해양공간관리 역사 및 법제도 ○ 한국의 연안 및 해양공간계획(2) - 해양공간계획 과정 및 이행, 단계 접근, 이슈와 도전과제
수행결과	Journey 2-3 for MSP, 10 June 2026, NH Collection in Colombo 2-3 RO Korea's CMSP (1/2) ✓ History and Overview of RO Korea's CMSP ✓ Legal and Institutional Mechanism

주요 업무내용 결과

	<i>Journey 2-4 for MSP, 10 June 2026, NH Collection in Colombo</i> 2-4 RO Korea's CMSP (2/2) ✓ Brief Outline of CMSP Planning and Implementation ✓ Step-by-Step Elaboration ✓ Issues and Challenges
업무⑥	6.11(목) 오전
수행계획	○ 이종위기와 생태계기반 해양공간계획 ○ 우리나라 해양생태계서비스 기반 해양공간계획 및 climate-smart MSP
수행결과	<i>Journey 3-1 for MSP, 11 June 2026, NH Collection in Colombo</i> 3-1 Twin-Crisis & EB MSP ✓ Twin-Crisis ✓ Climate Smart and Resilient MSP <i>Journey 3-2 for MSP, 11 June 2026, NH Collection in Colombo</i> 3-2 ROK MES-MSP & Climate-smart MSP ✓ Ecosystem-based MSP ✓ MES Valuation and Mapping of RO Korea

주요 업무내용 결과

업무⑦	6.11(목) 오후
수행계획	○ 갈등 조정과 해양공간계획 - 트레이드 오프, 협상, 거버넌스 등 - 갈등분석 방법 및 사례지역 갈등 분석
수행결과	<i>Journey 3-3 & 4 for MSP, 11 June 2026, NH Collection in Colombo</i> 3-3 & 4 Conflict Resolution and MSP ✓ Conflict resolution : Trade-off, negotiation, governance etc. ✓ Conflict analysis in the case study areas of each group
업무⑧	6.12(금) 오전
수행계획	○ 초국경 또는 초경계 해양공간계획 이해 ○ 스리랑카 주변 국가와 초국경 해양공간계획 수립
수행결과	<i>Journey 4-1 for MSP, 12 June 2026, NH Collection in Colombo</i> 4-1 Transboundary MSP ✓ Understanding Transboundary MSP ✓ Discussion: How to Build Regional Cooperative Mechanism for MSP and Blue Economy of Sri Lanka
업무⑨	6.12(금) 오후
수행계획	○ 블루이코노미와 해양공간계획 - 블루이코노미 정의, 국제동향 - 블루이코노미와 해양공간계획 ○ 스리랑카 사례지역 해양공간관리 방향

주요 업무내용 결과

	<i>Journey 4-2~4 for MSP, 12 June 2026, NH Collection in Colombo</i> 4-2~4 Blue Economy and MSP ✓ Definition of Blue Economy and its Global Trends ✓ Dynamics of Blue Economy and MSP ✓ CMSP Planning for Blue Economy <i>Journey 4-2~4 for MSP, 12 June 2026, NH Collection in Colombo</i> • [Site selection and Figuring-out of the area] To select sites, regions or entire jurisdiction for issue identification To figure out conditions / circumstances (natural, social, economic ones) • [Screening] To search relevant events, problems, arguments through internet system or other supplementary tools • [Relevance finding] To collect and analyze data or information relevant to the events, problems or arguments • [Arranging] To categorize issues (environmental, economic, social, managerial, legal etc) and hierarchize them • [Cause determination] To identify or determine causes of the issues Interlinked to afternoon sessions of • Conflict resolution on the 11th • CMSP Planning for the selected area on the 12th ✓ Boundary Delineation & geographic features ✓ Issues Identification & Conflict Analysis including Stakeholder Identification ✓ Comprehensive Review of conditions - Social, environmental, technical, financial, and legal conditions ✓ SWOT Analysis, reflecting the above ✓ Setting Goals and Objectives ✓ Drafting Actions and Measures to address the Issues (conflict)
수행결과	
업무⑩	6.13(토) 교육성과 평가 정리
수행계획	○ 교육성과 평가 및 정리(output, outcome) ○ 후속조치
수행결과	○ 외형적 실적 - 4일 간 16개 강의에 일부 특별사유(부처 협의 차 회의 참석)를 제외하고 전원 출석 - 4개 그룹별 이슈 도출, 상충분석, 여건분석, 해양공간 정책방향 정리 및 발표 완료 ○ 실질적 성과 - [참여형 프로그램으로 운영] 대학교수, 공무원, 연구원, 학생 등 다양한 인원이 참석한 훈련프로그램에서 해양공간계획에 대한 관심이 높아 질문과 발표 등이 활발하게 이루어져

주요 업무내용 결과

	적극적 참여형 프로그램으로 운영 - [적극적 그룹 토론과 성공적 집단 작업] 연령, 직업군이 다양함에도 그룹 구성 후 이슈 분석부터 정책방향 도출 전 과정에서 능동성이 제고, 짧은 시간에 높은 훈련 효과 발생 - [참여자간 향후 네트워킹 기반 마련] 참석자들간 연락처 공유 등이 이루어졌고, 장래 스리랑카 해양공간계획을 위한 최소한의 인적 네트워크 마련 - [스리랑카 해양공간계획 도입, 시행에 대한 의지 제고] 교육훈련 전과 비교할 때 대다수 참석인원이 해양공간계획 도입 필요성을 크게 인식하였음. 또한 이 프로그램을 통해 장래 해양공간계획가로서 활동할 수 있는 최소한의 지적 기반과 심리적 자신감을 확보한 것으로 평가 ○ 해양공간계획 도입, 시행 지원을 위한 후속 조치 필요 - 해양데이터 센터 마련 이후 관련 데이터의 실무적 활용 영역으로서 해양공간계획 및 관리 분야 역량강화, 제도도입 지원을 위한 후속조치 필요한 것으로 판단
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* 업무별 수행 결과는 각 700자 이내로 작성(관련 사진, 도표 필요시 추가)

* 보고서 총 분량은 10페이지 내외로 작성(필요시 조정)

<첨부 1> 훈련 프로그램 세부 일정

9 June	
9:00-9:20	• Opening and Participants Introduction (20') * Introduction to include 'affiliation, position, role and expectation from the program'
9:20-10:30	• Previous cooperation on ODA prototype development (15') • Introduction of the Communication Program and formation of discussion groups (15') • Sharing Concepts on Plan and Planning (40')
10:30-10:50	Break
10:50-12:20	• Understanding of MSP - concept, backgrounds, global trends (20') - general process of MSP planning and implementation (20') - differences from other management tools (e.g. MPA, ICM, ocean zoning, EIA etc.) (40')
12:20-13:20	Lunch
13:20-14:40	• MSP Implementation of Other countries (30') - European, Asian, and North Atlantic regions • MSP incorporation into international entities' policies (30') - UNESCO-IOC, UNEP, FAO, regional entities (ex. ASEAN) etc • International legal framework related to CMSP and Sri Lanka's commitment (20') - Global Biodiversity Framework, High Sea Treaty
14:40-14:50	Break
14:50-16:10	• Issue Identification for coastal and marine spatial planning and management (CMSP) of Sri Lanka - issue identification (environmental, social, economic ones) - gap analysis (technical, managerial, legal gaps) * <u>group discussion and discussion outputs sharing</u>

10 June	
9:00–10:30	• Data/information and MSP – Identification of data relevance : data, information, knowledge – GIS-DB and spatial decision-making support system (SDSS) : Marxan, ARIEs, Digital Twin etc
10:30–10:50	<i>Break</i>
10:50–12:20	• MSP under less data – Cambodian case
12:20–13:20	<i>Lunch</i>
13:20–14:40	• RO Korea's CMSP (1/2) – history of CMSP – legal and institutional mechanism
14:40–14:50	<i>Break</i>
14:50–16:10	• RO Korea's CMSP (2/2) – planning and implementation : step-by-step approach * data relevance evaluation, data collection, spatial analysis, draft planning, deliberation & negotiation, governance etc

11 June	
9:00–10:30	• Twin-crisis and MSP (30') • Climate smart MSP (50') – MPA (network, NEOLI), blue carbon, climate adaptive approach – Climate scenario-based decision making : biodiversity relocation
10:30–10:50	<i>Break</i>
10:50–12:20	• Ecosystem-based MSP (50') – biodiversity, MPAs, conservation planning, cumulative impacts – global cases on EB MSP – ecosystem service assessment and valuation • Marine ecosystem service mapping and valuation of ROK (30')
12:20–13:20	<i>Lunch</i>
13:20–14:40	• Conflict resolution and MSP (40') – Trade-off, deliberation & negotiation, governance, stakeholders' engagement, BC analysis • Collective action for conflict resolution in case areas (40')
14:40–14:50	<i>Break</i>
14:50–16:10	• Collective action for conflict resolution in case areas (continued) (40') • Presentation of group discussions (40')

12 June

9:00-10:30	• Transboundary MSP (30') • Group Discussion: Regional cooperation for MSP and blue economy of Sri Lanka (40') and Presentation (40')
10:30-10:50	<i>Break</i>
10:50-12:20	• Blue Economy and MSP * marine and coastal tourism, catch fisheries and aquaculture, offshore windfarm, marine energy development, ocean climate industry - understanding of global trends
12:20-13:20	<i>Lunch</i>
13:20-14:40	• Group discussion - designing of pilot projects (40') * area designation and backgrounds (socio-economic and environmental implications) - Issues and stakeholders identification, and SWOT analysis ('40)
14:40-14:50	<i>Break</i>
14:50-16:10	• Group discussion (continued) ('20) - strategic direction for sustainable oceans - designing of MSP planning process (leading agency, time framework, potential barriers and its solution etc.) • Presentation of group discussions (40') • Wrap-up (20')

<첨부 2> 참석자 명단

RAMANAYAKALAGE SUGATHAKALANKA RATHSARA BANDARA	Department of fisheries and aquatic resources	Master's Student	Fisheries biology, Fisheries Management	-
Wengappuli Arachchige Madusanka Pathmendra	Department of fisheries and aquatic resources	Master's Student	Fisheries	Currently working as an assistant director of fisheries department
Ahinsa Dewthilini Karunarathne	NARA	Researcher	Marine Ecology, Microplastics	Eager to participate to this training programme
Dunukumara Gangabadege Ayesha Madumali Wickramansysaka	NARA	Researcher	Economics	
GAJANAYAKA MUDIYANSELAGE THARINDU DILSHAN	NARA	Researcher	Physics , Chemistry and Computer Science	
Sudhirikku Hannadige Udeshika Chathurani	National Aquatic Resources Research and Development Agency (NARA)	Researcher	Environmental Science	
Udaya Prasad Wickramasinghe Hettiarachchi	National Aquatic Resources Research and Development Agency (NARA)	Researcher	Fisheries biology	
Sudheera Hewapathirana	National Aquatic Resources Research and Development Agency	Master's Student	GIS, Remote Sensing and Habitat Analysis	Good opportunity to study spacial planning, thank you
Wickramaratne Arachchige Kelum Prabath	National Aquatic Resource Research and Development Agency (NARA)	Researcher	Fishing Gear Technology, GIS & RS, Cartography	
R.A.P Asangani Ranamuka	National Aquatic Resources Research and Development Agency	Master's Student	Spatial Data analysis , Hydrographic Surveying, GIS , Research analysis , Remote sensing, Surveying,	I am highly interested in enhancing my knowledge and practical skills in Marine spatial planning and related latest techniques. Look forward to gaining valuable insights through this training programme .Enthusiastic about learning from experts and collaborating with fellow participants .
Chathuranga pradeep kumara	NARA	Researcher	Mariculture	
Rajasooriya Sajeenthira	National Aquatic Resources Reserach and Development Agency (NARA)	Master's Student	Hydrography	
Suntharam Ravikumar	National Aquaculture Development Authority of Sri Lanka	Researcher	Shrimp farming effluent Surveillance	
Balachandran Nirooparaj	National Aquaculture Development Authority Of Sri Lanka	PhD Student	Aquaculture Ecology and Environment base development	Interest in Learning aquaculture Spatial Planning and GIS Based Multi Criteria Evaluations concentrated in IMTA and bioextraction
Wijesundara Appuhamillage Anusha Priyanthi Wijesundara	Ocean University of Sri Lanka	Faculty Member	Oceanography, Marine Spatial Planning	Thank you for organizing this type of training programme and providing me an opportunity to upgrade my knowledge.
Pasayala Acharige Shamali Anuruddika Rathnasri	Ocean University of Sri Lanka	Faculty Member	Marine and Coastal Ecology	I am very interested in this training as I believe it will help me to advance my research and teaching.
Sathsarani Sayuri Tharangani Hewage	University of Ruhuna	Faculty Member	Physical oceanography	
Hannagala Gamage Hiruni Poornima Sandeepani	University of Ruhuna	Undergraduate	Climate dynamics , Oceanography	
GALAGAMA SINGAHETTIGE SUSANGATHA PRABASHVARI	University of Ruhuna	Undergraduate	Climate dynamics and ocean-atmosphere interactions	
Joseph Sindhujan	University of Ruhuna	Faculty Member	Oceanography	

주: 20명으로 예정되었으나 프로그램 운영 직전에 1명이 추가되어 최종 21명이 교육훈련 이수

<첨부 3> 교육자료집

