**ISSUE AND ADAPTIVE MANAGEMENT LOG**

| **Output** | **Planned Completion Date** | **Completed on time?****(Yes/No)** | **Issue (if deviance exists)** | **Adaptive Management Action Applied** |
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| **July 2021-June 2022** | **July 2022-June 2023** | **July 2023-October 2023** |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q1** | **Q2** | **Q3** | **Q4** | **Q1** | **EOP** |
| Output 1.1: Regulations on introduction, early detection, prevention and management of IAS in marine and coastal wetland ecosystems developed and submitted for adoption. |
| 1.1.1. By-laws and other regulatory mechanisms/tools on marine IAS developed and adopted in relation to implementation of Decree Law on Organization and Duties of Ministry of Forest and Water Affairs Law and other related regulations of other Ministries |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  1.1.2. Implementation of IAS by-laws and other regulatory tools/mechanisms through training and awareness raising of regulators and resource-users |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 1.3: Protocols and quarantine mechanisms consistent with bio-security requirements and international standards for IAS in marine and coastal wetland ecosystems in place |
| 1.3.2. Development of sector-specific guidelines on protocols and quarantine mechanisms for marine IAS in all sectors that impact/being impacted by IAS other than shipping |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3.3. Support for implementation of laws and regulations that have been developed and adopted via dissemination of guidelines to targeted sectors |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 1.4: Fiscal incentives introduced for effective removal of IAS (e.g. Lion fish, Balloon fish) in marine and coastal wetland ecosystems (to encourage selective fishing and removal of IAS by fishermen) jointly with MFAL. |
| 1.4.2. Outreach program on fiscal incentives for the local communities (and nature/conservation related NGOs) for each study site |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4.3. Outreach program on fiscal incentives for the staff of the province directorates of MoFAL and MoFWA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4.4. Harvest incentive program in partnership with local communities for Pterois spp. in Hatay-Samandag |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4.5. Harvest incentive program in partnership with local communities for Eichhornia crassipes in Hatay-Samandag |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4.7. Harvest incentive program in partnership with local communities for Asterias rubens in Marmara Islands |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4.8. Documentation and publications on positive or negative experience with harvest programs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 1.5: Regulations and standards on control, minimization and removal of IAS from ballast water developed jointly with MTMAC and put for enforcement |
| 1.5.6. System for monitoring compliance and implementation of the Ballast Water Convention |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.5.7. Practical workshops on capacity building of MoTMAC personnel working in sampling and analysis of ballast water and sediment, to support implementation of National Ballast Water Strategy and Ballast Water Convention, including demonstration of eDNA sampling and analysis[Training Modules: S1B-eDNA] |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 1.6: Sustainability and Replication mechanism: National Strategy and Action Plan on IAS in marine and coastal wetland ecosystems developed and approved to inform future actions on identifying priority habitats and species to be protected, evaluating financial and socio-economic effects of action/inaction for marine and freshwater IAS based on a thorough cost/benefit analysis. |
| 1.6.1. Identification of methods to measure and analyze the impact of marine IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6.2. Investigation of ecological and socio-economic impact of selected marine IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6.3. Identification of habitats vulnerable to marine IAS invasion |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6.4. Scientific conference on ecological and socio-economic impacts of marine IAS. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6.5.National Strategy and Action Plan on marine IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6.6. Support to local authorities of MoFWA, MoFAL, Coast Guard, MoEU, MoH, MoCT etc. for implementation of National Strategy and Action Plan on Marine IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 2.2: Information system with official list of prohibited IAS, modules on risk analysis, early warning response and monitoring for IAS in marine and coastal ecosystems is in use by government regulators. The system enables a comprehensive inventory and monitoring of IAS threats at the most sensitive marine and coastal habitats and species (posidonia meadows, coralligenous, sea turtles, anchovy, mussel, oyster), as well as measures to detect and prevent entry of risky IAS at key points of entry. |
| 2.2.2. Construction of the database and the web interface for open access marine IAS database  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2.4. Designation and training of experts to operate open access marine IAS database |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2.5. Presentation of the open access marine IAS database to the public and training of the target user groups |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2.6. System for sustainable operation, update and maintenance of the open access marine IAS database  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 2.3: Engagement with shipping industry, and transport and customs sectors, on implementation of regulations and standards on control, minimization and removal of IAS from ballast water; and on procedures for regulating the entry of species for ornamental and aquaculture purposes to mitigate the introduction of marine and freshwater IAS. |
| 2.3.1. International symposium on ballast water management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.3.2. Sectoral capacity building for implementation of regulations and standards on the control, minimization and removal of IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.3.3. Capacity building for customs and transport authorities on control of marine IAS in non-shipping sector |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 2.4: Increased knowledge and awareness on IAS threats, impacts, management options and best practices for relevant industries, enterprises (aquaculture, transport, custom, tourism, etc.) media, security forces (gendarme), schools etc. through a comprehensive national communication, outreach program and delivery of community training |
| 2.4.2. Development of training modules and programs on control of marine IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.3. Design and printing of training and awareness raising materials |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.4. Raising awareness on marine IAS in schools - development of high school-level teacher activity packets (lesson plans) related to marine IAS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.5. Raising awareness on marine IAS in marine transport sector (trainings bkz 2.3.) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.6. Raising awareness on marine IAS in hobby aquarium sector and aquarists |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.7. Raising awareness on marine IAS in aquaculture sector |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.8. Raising awareness on IAS in media |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.9. Raising awareness on marine IAS among fishermen  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.10. Raising awareness on marine IAS among divers |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.11. Raising awareness on marine IAS in governmental institutions (customs, coast guard, MoFAL, MoEU, MoFWA, MoTMAC etc.) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.12. Monitoring the awareness in target groups |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.4.13. Study visits for capacity building of staff of related Institutions |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 3.1: Management plans designed and launched for 4 areas, with identification of site-specific measures for prevention, ensure eradication, control and management of IAS |
| 3.1.1. Data collection for completion of project site marine IAS management plans |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1.4. Preparation of project site marine IAS draft management plans with support/involvement by the Local Committee |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 3.2: Measures to detect, control spread of IAS at the target sites in collaboration with local communities, and targeted restoration of ecosystems degraded as a result of IAS. |
| 3.2.1. Igneada: Implementation of marine IAS management and control measures defined in site management plan (3.1.7), in cooperation with local communities |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.2.2. Marmara Islands: Implementation of marine IAS management and control measures defined in site management plan (3.1.8), in cooperation with local communities |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.2.3. Ayvalik Islands: Implementation of marine IAS management and control measures defined in site management plan (3.1.9), in cooperation with local communities |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.2.4. Hatay-Samandag / Gulf of Iskenderun: Implementation of marine IAS management and control measures defined in site management plan (3.1.10), in cooperation with local communities |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output 3.3: Support for the recovery of native species disturbed by IAS at selected sites |
| 3.3.1. Detailed specification of damaged Mytilus galloprovincialis and Mytilaster lineatus beds in İğneada and Marmara Islands; data collection and feasibility assessment of re-population |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.3.2. Eradication of Rapana venosa and Asterias rubens in the selected sites |  |  |  |  |  |  |  |  |  |  |  |  |  |