

## Annex A: Results Framework (RF)

| Quantitative and qualitative performance indicator (PI) (disaggregated by: sex, age)                                                                                                                                                                                                  | Baseline | Source                                | Means of verification (Method)                                                                     | Milestone Year 1                                                                                                       | Milestone Year 2                                                                                                        | Target                                                                                                                                       | Assumptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Impact: Enhance the resilience and adaptive capacity of coastal communities in Kenya, Mozambique, Seychelles, and Madagascar by equipping policymakers, institutions, and researchers with reliable, accessible, and actionable sea-level data</b>                                 |          |                                       |                                                                                                    |                                                                                                                        |                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PI 1. Percentage increase in the use of sea-level data for national policy, disaster risk reduction, and climate adaptation planning (disaggregated by institutional users and gender representation in decision-making processes). The level of resilience among coastal communities | 0        | Global Ocean Report, 2023             | National policy documents, disaster risk management frameworks, and climate adaptation strategies. | At least 20% of national policies reflect sea-level data considerations; capacity-building for policymakers initiated. | 40% of national policies now include sea-level data; cross-sectoral coordination mechanisms established.                | At least 60% of national policies on disaster risk reduction and coastal management incorporate real-time sea-level data within five years.  | <ul style="list-style-type: none"> <li>Governments and stakeholders are committed to integrating sea-level data into policy and planning frameworks.</li> <li>Technical staff, policymakers, and research institutions are willing to adopt and institutionalize new tools and methodologies, including the 'Sea-Level Station in a Box' concept, for data management and decision-making.</li> <li>Adequate financial and human resources will be allocated to maintain and sustain the implemented systems beyond the project lifespan.</li> <li>Coastal communities will recognize the value of sea-level data and actively participate in awareness initiatives.</li> </ul> |
| PI 2. Number of trained personnel (disaggregated by sex, age, and institutional affiliation) with enhanced capacity in sea-level data collection, interpretation, and application for decision-making.                                                                                | N/a      | IOCAFRICA survey 2022                 | Pre- and post-training assessments, follow-up surveys, certification records.                      | 25 professionals trained, with at least 30% women and ECOPs; training materials and curriculum finalized.              | 50 professionals trained, with at least 35% women and ECOPs; follow-up mentorship and peer learning sessions initiated. | At least 50 professionals, with at least 40% being women and youth, trained across all participating institutions by the end of the project. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PI 3. Percentage increase in regional and international data-sharing and collaboration on sea-level monitoring, contributing to open-access databases and early warning systems.                                                                                                      | 20       | IOCAFRICA and OIH project survey 2023 | Analysis of data-sharing agreements, assessment of participation in international networks,        | Data-sharing agreements signed with at least 50% of target institutions; initial                                       | 75% of participating institutions actively contributing data to ODIS, OBIS, GLOSS                                       | At least 75% of project-generated sea-level data is integrated into regional and global ocean                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Quantitative and qualitative performance indicator (PI) (disaggregated by: sex, age)                                                                                                                                                                                                                                   | Baseline | Source                        | Means of verification (Method) | Milestone Year 1 | Milestone Year 2 | Target | Assumptions                                                                                                                                                                                                                                                                                     |
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| <b>Outcome N° 1:</b> Strengthened institutional capacity by enhancing the skills and knowledge of policymakers, institutions, and researchers. This will result in a more coordinated approach to sea-level data management and coastal resilience planning, enabling effective policy formulation and implementation. |          |                               |                                |                  |                  |        |                                                                                                                                                                                                                                                                                                 |
| PI 1. Number of institutions engaged in capacity development initiatives                                                                                                                                                                                                                                               | 4        | IOCAFRI<br>Session reports    | Quarterly reports              | 6                | 8                | 12     | - National and regional institutions will demonstrate a sustained commitment to integrating sea-level data into policy and planning frameworks.<br>- Key stakeholders, including policymakers, researchers, and technical personnel, will actively participate in capacity-building initiatives |
| PI 2. Number of institutions accessing data platforms                                                                                                                                                                                                                                                                  | 0        | IOCAFRI<br>Survey (2021-2022) | Annual reports                 | 4                | 20               | 20     |                                                                                                                                                                                                                                                                                                 |
| PI 3. Number of collaborations on data and knowledge-sharing between regional and international partners to support sustainable coastal resilience initiatives                                                                                                                                                         | 2        | IODE reports                  | Annual reports                 | 4                | 6                | 6      |                                                                                                                                                                                                                                                                                                 |
| <b>Output N° 1:1. Procurement and installation of the 'Sea-Level Station in a Box' concept</b>                                                                                                                                                                                                                         |          |                               |                                |                  |                  |        |                                                                                                                                                                                                                                                                                                 |
| PI 1. Number of boxes developed, tested and successfully deployed                                                                                                                                                                                                                                                      | 0        | IOCAFRI<br>Survey (2021-2022) | Quarterly reports              | 4                | 6                | 10     | - Adequate procurement procedures and supplier availability will be in place.<br>- There will be sufficient technical capacity to operate and maintain the stations.<br>- Regulatory approvals for installation sites will be granted without delays                                            |
| PI 2. Number of countries provided with the new 'Sea-Level Station in a Box'                                                                                                                                                                                                                                           | 0        |                               | Annual report / counts         | 4                | 4                | 4      |                                                                                                                                                                                                                                                                                                 |
| PI 3.                                                                                                                                                                                                                                                                                                                  |          |                               |                                |                  |                  |        |                                                                                                                                                                                                                                                                                                 |
| <b>ACTIVITIES</b>                                                                                                                                                                                                                                                                                                      |          |                               |                                |                  |                  |        |                                                                                                                                                                                                                                                                                                 |
| <b>Activity N° 1: Procure the contractor to develop the 'Sea-Level Station in a Box'</b>                                                                                                                                                                                                                               |          |                               |                                |                  |                  |        |                                                                                                                                                                                                                                                                                                 |
| PI 1. Number of calls for proposals developed and diffused across different UNESCO-IOC Communication channels                                                                                                                                                                                                          | 0        | N/A                           | Call for proposals             | 1                | 0                | 1      | - Adequate procurement procedures and supplier availability will be in place.                                                                                                                                                                                                                   |

| Quantitative and qualitative performance indicator (PI) (disaggregated by: sex, age)                                            | Baseline | Source                                        | Means of verification (Method)                               | Milestone Year 1 | Milestone Year 2 | Target | Assumptions                                                                                                                                                                                                                                                        |
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| PI 2. Number of proposals received and reviewed                                                                                 | 0        | N/A                                           | Count of proposals received                                  | 3                | 3                | 3      | - There will be sufficient technical capacity to operate and maintain the stations.<br>- Regulatory approvals for installation sites will be granted without delays                                                                                                |
| PI 3. Number of contracts signed to develop and deploy the 'Sea-Level Station in a box'                                         | 0        | N/A                                           | Number of contracts signed                                   | 1                | 1                | 2      |                                                                                                                                                                                                                                                                    |
| Activity N° 2: Engage with suppliers and conduct procurement processes in line with international standards.                    |          |                                               |                                                              |                  |                  |        |                                                                                                                                                                                                                                                                    |
| PI 1. Number of prototypes developed and piloted                                                                                | 0        | N/A                                           | Count number of prototypes developed and tested (Max)        | 3                |                  | 3      |                                                                                                                                                                                                                                                                    |
| PI 2. Number of 'Sea-Level Stations in a box' deployed across the four countries                                                | 0        | N/A                                           | Count of 'Sea-Level Stations in a box' successfully deployed | 4                | 6                | 10     |                                                                                                                                                                                                                                                                    |
| Activity N° 3: Quality assurance and monitoring- Conduct field testing and calibration of installed stations to ensure accuracy |          |                                               |                                                              |                  |                  |        |                                                                                                                                                                                                                                                                    |
| PI 1. Number of field testing and calibration exercises conducted                                                               | 0        | N/A                                           | Quarterly reports                                            | 4                | 6                | 10     |                                                                                                                                                                                                                                                                    |
| PI 2. Number of operational manuals for long-term station maintenance and troubleshooting acquired.                             | 0        | N/A                                           | Number of manuals received                                   | 1                | 2                | 3      |                                                                                                                                                                                                                                                                    |
|                                                                                                                                 |          |                                               | Annual reports                                               |                  |                  |        |                                                                                                                                                                                                                                                                    |
| Output N°2: Enhanced institutional capacities through specialised training programs and provision of technical resources        |          |                                               |                                                              |                  |                  |        |                                                                                                                                                                                                                                                                    |
| PI 1. Number of institutions engaged in capacity development initiatives within the beneficiary countries                       | 3        | IOCAFRICA Session reports                     | Annual reports                                               | 4                | 4                | 4      | - Key stakeholders will have the willingness and time to participate in training programs.<br>- Funding and logistical support for training activities will be sustained.<br>- Trained personnel will effectively apply acquired skills in their respective roles. |
| PI 2. Number of resources (e.g. manuals and policy documents) developed and diffused across the beneficiary countries           | 0        | IOCAFRICA Session reports                     | Annual reports                                               | 2                | 2                | 4      |                                                                                                                                                                                                                                                                    |
| PI 3. Number of workshops and seminars organized with a focus on the interpretation and application of sea-level data.          | 0        | National Reports, IOCAFRICA Sessional reports | Training and Workshop reports                                | 1                | 2                | 3      |                                                                                                                                                                                                                                                                    |

| Quantitative and qualitative performance indicator (PI) (disaggregated by: sex, age)                                                                 | Baseline | Source                                       | Means of verification (Method)                      | Milestone Year 1 | Milestone Year 2 | Target | Assumptions                                                                                                                                                                  |
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| ACTIVITIES                                                                                                                                           |          |                                              |                                                     |                  |                  |        |                                                                                                                                                                              |
| Activity N° 1: Conduct training needs assessments to tailor capacity-building programs                                                               |          |                                              |                                                     |                  |                  |        |                                                                                                                                                                              |
| PI 1. Number of 'needs' surveys developed and piloted among the beneficiary countries                                                                | 1        | IOCAFRICA Survey (2021-2022)                 | Number of surveys developed and piloted             | 1                | 1                | 2      | - Beneficiary organizations will participate in the needs survey<br>- Developers of the 'Sea-Level Station in a Box' will participate in the development of training manuals |
| PI 2. Number of responses to the surveys received                                                                                                    | 0        | N/A                                          | Count of survey responses                           | 4                | 6                | 6      |                                                                                                                                                                              |
| Activity N° 2: Develop (online) training material with box installation instructions using the virtual and institutional ecosystem developed by OTGA |          |                                              |                                                     |                  |                  |        |                                                                                                                                                                              |
| PI 1. Number of training modules and corresponding material developed and shared across the four beneficiary countries                               | 0        | National Reports IOCAFRICA Sessional reports | Count of successfully developed and piloted modules | 2                | 2                | 4      |                                                                                                                                                                              |
| PI 2. Number of workshops and trainings organized across the four beneficiary countries                                                              | 0        | IOCAFRICA Sessional reports                  | Training and Workshop reports                       | 1                | 2                | 3      |                                                                                                                                                                              |
| PI 3. Number of participants, including women and early careers professionals, participating in the training and workshops                           | 0        | IOCAFRICA Sessional reports                  | Training and Workshop reports                       | 25               | 50               | 75     |                                                                                                                                                                              |
| Activity N° 3: Quality assurance and monitoring: Undertake workshop and training review and feedback surveys across different beneficiary groups     |          |                                              |                                                     |                  |                  |        |                                                                                                                                                                              |
| PI 1. Number of feedback surveys developed                                                                                                           | 0        | N/A                                          | Count of feedback surveys developed and piloted     | 1                | 2                | 3      |                                                                                                                                                                              |
| PI 2. Number of responses to the feedback surveys received, including from women and early career professionals                                      | 0        | N/A                                          | Count of responses received                         | 25               | 50               | 75     |                                                                                                                                                                              |
| Output N°3 Development and deployment of a centralised, interoperable sea-level data management system                                               |          |                                              |                                                     |                  |                  |        |                                                                                                                                                                              |
| PI 1. Number of interoperable databases developed                                                                                                    | 0        | OIH/IODE Report 2023                         | Count of operational databases developed            | 2                | 2                | 4      | - Adequate IT infrastructure will be available for system deployment.                                                                                                        |

| Quantitative and qualitative performance indicator (PI) (disaggregated by: sex, age)                                                                                                                | Baseline | Source                         | Means of verification (Method)                  | Milestone Year 1 | Milestone Year 2 | Target | Assumptions                                                                                                                                                                          |
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| PI 2. Number of data entries added and linked to the newly developed database                                                                                                                       | 0        | National reports - 2023        | Number of new databases                         | 4                | 4                | 4      | - Users will be willing and able to adopt the new data management system.<br>- Data governance policies will be supported by national institutions.                                  |
| PI 3. Number of personal, including women and early career professionals, trained on the management and entry of data                                                                               | 0        | National reports - 2023        | Training reports                                | 20               | 20               | 40     |                                                                                                                                                                                      |
| ACTIVITIES                                                                                                                                                                                          |          |                                |                                                 |                  |                  |        |                                                                                                                                                                                      |
| Activity N° 1: Conduct system requirements analysis and stakeholder consultations.                                                                                                                  |          |                                |                                                 |                  |                  |        |                                                                                                                                                                                      |
| PI 1. Number of consultations with stakeholders                                                                                                                                                     | 1        | IOCAFRICA Survey (2021-2022)   | Number of surveys developed and Piloted         | 1                | 1                | 2      | - Users will be willing and able to adopt the new data management system.<br>- There are existing data management, storage and access platforms within the beneficiary organizations |
| PI 2. Number of existing data platforms mapped                                                                                                                                                      | 1        | IOCAFRICA - OIH Survey -(2022) | Number of existing data platforms identified    | 1                | 1                | 2      |                                                                                                                                                                                      |
| Activity N° 2: Design and develop a user-friendly data management portal with real-time visualization capabilities, ensuring system interoperability with existing national and regional platforms. |          |                                |                                                 |                  |                  |        |                                                                                                                                                                                      |
| PI 1. Number of operational “virtual sea level station maintenance interface” developed                                                                                                             | 0        | N/A                            | Count of accessible interfaces developed        | 0                | 1                | 1      |                                                                                                                                                                                      |
| PI 2. Number of national databases linked to the developed interoperable database                                                                                                                   | 0        | IOCAFRICA - OIH Survey -(2022) | Count of successfully linked National Databases | 0                | 4                | 4      |                                                                                                                                                                                      |
| Activity N° 3: Quality assurance and monitoring: Provide training to relevant stakeholders on data entry, management, and retrieval.                                                                |          |                                |                                                 |                  |                  |        |                                                                                                                                                                                      |
| PI 1. Number of participants, including women and early careers professionals, participating in the trainings                                                                                       | 0        | N/A                            | Report of the training events                   | 8                | 8                | 16     |                                                                                                                                                                                      |
| PI 2. Number of stakeholder groups participating in the training                                                                                                                                    | 0        | N/A                            | Report of the training events                   | 4                | 6                | 10     |                                                                                                                                                                                      |
| Output N°4: Delivery of targeted training programs and capacity-building workshops                                                                                                                  |          |                                |                                                 |                  |                  |        |                                                                                                                                                                                      |

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|-----------------------------------------------------------------------------------------------------------------------|----------|---------------------------|-------------------------------------------------------------------------|------------------|------------------|--------|-----------------------------------------------------------------------------------------------------------------|
| PI 1. Number of peer-to-peer groups formed                                                                            | 0        | IOCAFRICA reports         | Count of recorded peer-to-peer working groups formed                    | 1                | 2                | 4      | Trainees will be willing to form peer-to-peer groups and be active                                              |
| PI 2. Number of peer-to-peer sessions                                                                                 | 0        | IOCAFRICA reports         | Records of peer-to-peer sessions                                        | 2                | 6                | 8      |                                                                                                                 |
| PI 3. Number of trainees, including women and early-career professionals participating in the peer-to-peer sessions   | 0        | IOCAFRICA reports         | List of trainees in peer-to-peer groups                                 | 6                | 14               | 20     |                                                                                                                 |
| ACTIVITIES                                                                                                            |          |                           |                                                                         |                  |                  |        |                                                                                                                 |
| Activity N° 4: Develop educational materials and training manuals for long-term reference                             |          |                           |                                                                         |                  |                  |        |                                                                                                                 |
| PI 1. Number of educational material and manuals developed and deployed for the training                              | 1        | OTGA and OIH repositories | Count of number of training material developed and shared with trainees | 1                | 1                | 2      | Regional and global experts will be willing and available to contribute to the development of training material |
|                                                                                                                       |          |                           |                                                                         |                  |                  |        |                                                                                                                 |
| PI 2. Number of experts, including women, engaged in the development of the training material                         | 0        | IOCAFRICA reports         | List of trainees as per training reports                                | 0                | 4                | 4      |                                                                                                                 |
| ACTIVITIES                                                                                                            |          |                           |                                                                         |                  |                  |        |                                                                                                                 |
| Activity N° 5: Quality assurance and monitoring: Implement follow-up training to reinforce capacity-building efforts. |          |                           |                                                                         |                  |                  |        |                                                                                                                 |
| PI 1. Number of trainees involved in the follow-up training                                                           | 0        | N/A                       | List of trainees as per training reports                                | 0                | 20               | 20     | Trainees will be willing to participate in follow-up training                                                   |
|                                                                                                                       |          |                           |                                                                         |                  |                  |        |                                                                                                                 |
| PI 2. Number of reports developed on follow-up trainings                                                              | 0        | N/A                       | Count of training reports                                               | 0                | 1                | 1      |                                                                                                                 |
| PI3. Number of follow-up trainings conducted                                                                          | 0        | N/A                       | Count of training reports                                               | 0                | 1                | 1      |                                                                                                                 |