

Adriana Luís Garcia
garcia.adrianaluis@gmail.com

From Monitoring to FAIR Data Publication: Open Science Tools for ATLANTIDA II

ATLANTIDA II

Adriana Luís Garcia, Raul Valente, Maria Paola Tomasino

CIIMAR/CIMAR LA, Centro Interdisciplinar de Investigação Marinha e Ambiental, Universidade do Porto

1. Harmonising Sampling Protocols: ATLANTIDA II monitoring protocols

Heterogeneity of formats → **Collaboration with researchers** → **Creation and sharing of SOP templates** → **The CIIMAR Watch book of protocols**

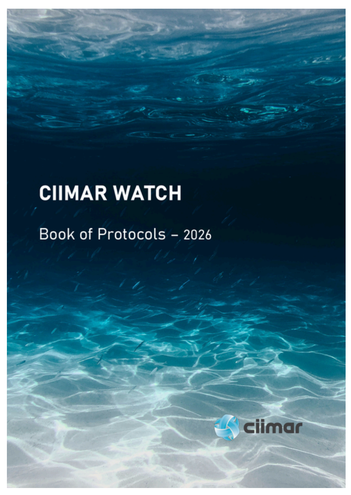
CIIMAR Watch found varied sampling protocols, with no common format.

Researchers were engaged to collect diverse protocols and develop SOPs template.

Standardised templates were developed and shared with researchers.

The book brings together 14 Standard Operating Procedures (SOPs) for sampling and a shared coding system for sample labels and field records.

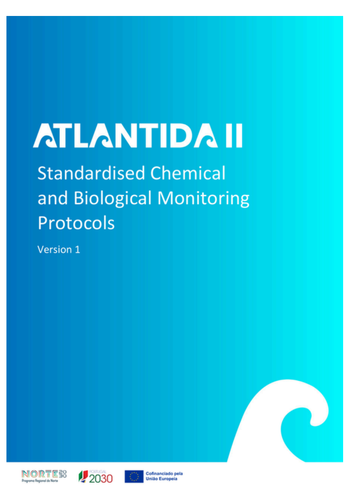
Standardised, shareable SOP templates improve **protocol consistency** and **research reproducibility**.



CIIMAR Watch book of protocols



SOP Template



ATLANTIDA II book of protocols

Monitoring protocols in ATLANTIDA II

Activity 2 · Deliverable 5

Physical, chemical and biochemical parameters

Current velocity, CTD deployment, nutrients, chlorophyll, metals and organic contaminants, microplastics.

Biological parameters

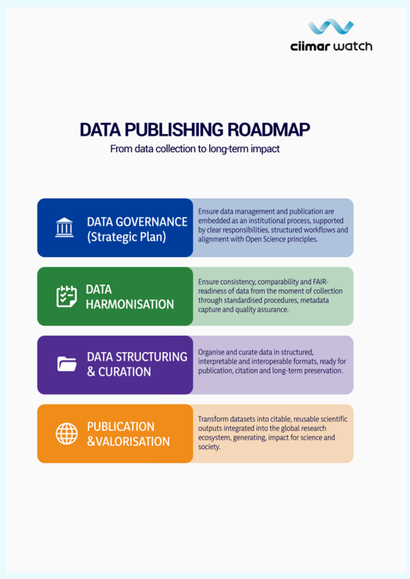
eDNA, cetaceans, ichthyoplankton, rocky-wall photography, benthic invertebrates, kelp forest surveys, hydrophones, UAV surveys.

The ATLANTIDA II Manual builds on the CIIMAR Watch Book by integrating additional monitoring protocols.

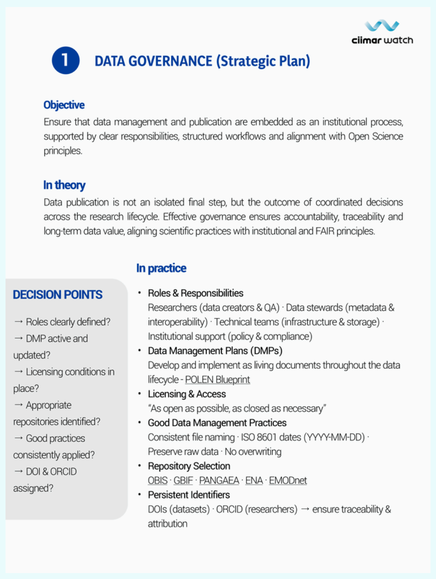
2. Research Data Publishing Workflow: A Reference Framework for Researchers

The CIIMAR Watch Data Publishing Roadmap guides researchers from data collection planning to curation, repository selection and publication.

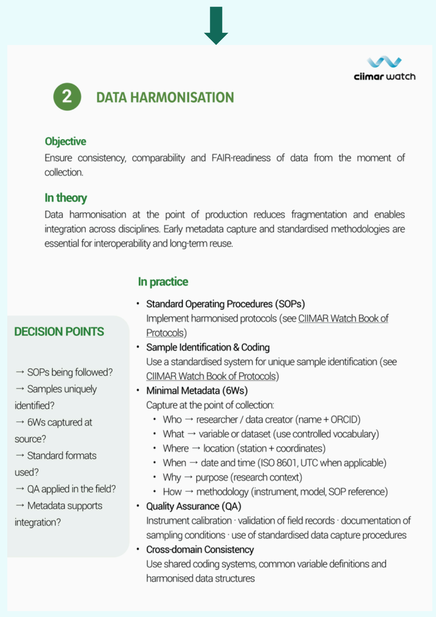
Sampling SOPs support data harmonisation



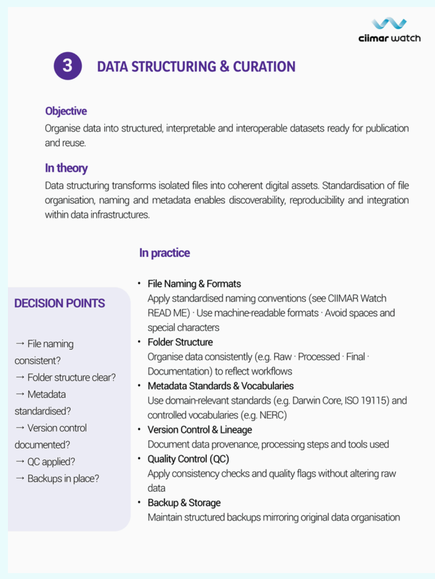
Roadmap overview



Data Governance



Data Harmonisation



Structuring & Curation



Publication & Valorisation

Ongoing: Tailor the roadmap to the ATLANTIDA II context.

Next steps: Develop a practical toolkit to guide researchers in preparing, documenting and publishing research data in domain-specific repositories.

ACKNOWLEDGEMENTS

This work is a result of the project ATLANTIDA II (ref. NORTE2030-FEDER-01799200), co-financed by the European Union through the NORTE 2030 Regional Program and the European Regional Development Fund (ERDF).

NORTE 2030 Programa Regional do Norte · PORTUGAL 2030 · Cofinanciado pela União Europeia