

# Draft Technological Implementation Plan (TIP)

## 1 Introduction

The draft is a very preliminary outline of the TIP, which will be developed further during the first two years of the ESEAS-RI project. The draft indicates the key elements to be addressed by the TIP.

Major technological output of the project are

- information technology for a standardised access to a european-wide distributed data base of quality-controlled tide gauge data;
- a classification of the ESEAS network of Observation Sites according to different applications and quality;
- standards for the operational routines;
- standards for data quality control and data processing;
- tools for operational generation of sea-level related products;
- empirical model for sea level variations and secular trends in sea level.

A key point in the TIP will be the transfer of the technological results of the ESEAS-RI to the broader ESEAS membership.

In the following subsection, we list for each output the main topics to be addressed by the TIP.

## 2 The ESEAS User Interface

Topics to specify:

- Technological implementation of the interface,
- conditions for access to data and products
- tools for access to national databases
- overview of databases to be made accessible

## 3 The ESEAS Observational Sites

Topics to specify:

- Specifications for ESEAS Observing sites;

- Routines for classification of ESEAS Observing Sites, including routines for reassessments;
- Plans for continuation of the ESEAS Observational network
- Plans for further upgrading of the network

## **4 Operational routines for observations**

Topics to specify:

- Specification of the operational requirements including site documentation
- Plans to implement the standard operational routines at all ESEAS Observing sites.

## **5 Standardisation of data quality control and data processing**

Topics to specify:

- Specification of the standards
- Plans to implement the standards at all ESEAS Data Centres

## **6 Operational sea level related product generation**

Topics to specify:

- List of operational products, including update rates
- Implementation and maintenance of operational routines
- Commitments
- Access to operational products

## **7 Sea level variations and sea level trends**

Topics to specify:

- Access to and update of the empirical model
- Access to and update of sea level trends
- Access to and update of absolute gravimetry data
- Access to and update of vertical land motion