



MILESTONE 1 Report

Completion of the database platform for storing monitoring data

5 May 2023



Means of verification: Brief report of the database implementation and URL of the database web application available to HaDEA.

URL: <https://latmare.lhei.lv>

In fulfillment of milestone 1 the database platform (<https://latmare.lhei.lv/>), named LATMARE, was launched and made publicly available by the project partner LHEI already in January 2022 (see BDF website news [blog](#)). LATMARE provides open access to Latvian marine monitoring data collected since 1995 on the following data types:

- Oceanographic in-situ data (including nutrients and chlorophyll-a)
- Contaminants in biota and in sediment
- Biological observations (Zooplankton, Phytoplankton, Zoobenthos)
- Additional parameters such as meteorological observations, Secchi depth, water colour, etc., are also available.

For example, the contaminant data hosted on LATMARE has made a significant contribution to the third Holistic Assessment Regional Assessment of the Baltic Sea (HOLAS III) as highlighted in a recent [blog post](#) on the BDF website.

Users of LATMARE can search for data by defining parameters of interest such as reporting period, cruise, monitoring station, etc. An interactive map is also featured with placemarks for each monitoring station and polygons to clearly separate monitoring regions (see screenshot on page 2). Users can then extract the data for download into XLS format for further analysis.

The completion of milestone 1 has improved the FAIRness of Latvian national monitoring data by making available national nodes where the data is publicly available in defined formats and metadata. In further efforts to encourage data accessibility, monitoring datasets are also featured on the Latvian Data Portal (data.gov.lv) and are harvested through the [European Data Portal \(data.europa.eu\)](https://data.europa.eu/), accessible via the links below:

- [Contaminants in fishes of the Baltic Sea and Gulf of Riga](#)
- [Number of phytoplankton and mesozooplankton in the Baltic Sea and the Gulf of Riga](#)
- [Number and mass of benthic in the Baltic Sea and the Gulf of Riga](#)

- [Hydrochemical and hydrological observations in the Baltic Sea and Gulf of Riga](#)

The Metadata Quality Assurance (MQA) tool available on the European Data Portal has evaluated the quality of metadata available from LATMARE and awards it a 'sufficient' rating. Further information on the MQA tool and other harvested catalogues is available in the milestone 15 report.

LATMARE Observations

Monitoring period *
01/01/2016 – 31/12/2020

Group of parameters
Hydrochemistry

Parameters *
Salinity (Salinometer) NO23 Oxygen pH

Cruise
Monit-20-02

Station name
119

Project
 environmental observations

Reset filters Search Export data

Filter

Station	Date	Station depth	Parameter	Object	Horizon ↓	Result	Quality
119	04/08/2020	43.30	NO23		5m	0.16 umol/l	
119	04/08/2020	43.30	Oxygen		5m	6.36 ml/l	
119	04/08/2020	43.30	pH		5m	8.53 pH	
119	04/08/2020	43.30	Salinity (Salinometer)		5m	5.64 PSU	
119	04/08/2020	43.30	NO23		42m	0.30 umol/l	
119	04/08/2020	43.30	Salinity (Salinometer)		42m	6.00 PSU	
119	04/08/2020	43.30	NO23		40m	12.43 umol/l	

Screenshot of LATMARE user interface with example data results