

Consultation within TSG 3:

environmental status of the Sea

Construction Activities in the Sea and on the Seashore and Achieving good

United Nations Decade of Ocean Science for Sustainable Development

Analysis of benthic habitats burial in the study case of **Koper bay**

Rok Soczka Mandac

Institute for Water of the Republic of Slovenia

Izola, 19. 9. 2024

PREMESIS

Influence on benthic habitats burial in the study case of Koper Bay

- Riverine input of suspended solids (TSS)
- Characteristics of the Koper Bay
- Anthropogenic pressure on the environment
- Pollution inputs
- Marine traffic influence



Riverine input of fluvial material



River plume in the Bay of Koper due to high Rižana River discharge and high precipitation in the inland (17th March 2011 at 8:21 – Rižana River discharge: 46 m³ s⁻¹)

Maritime traffic influence



Resuspension of sediment due to the manoeuver of the MSC Uruguay (20th March 2011 at 11:27)

THE MAIN AIM OF THE RESEARCH

Evaluate the influence of the local rivers on TSS spatial distribution





SECONDARY AIM OF THE RESEARCH

Evaluate the influence of the **maritime traffic**

IN-SITU MEASUREMENTS AND SAMPLINGS CAMPAINS IN THE PERIOD 2011-2013



SPATIAL DISTRIBUTION OF VARIABLES DURING A PLUME EPISODE 8th JUNE 2011







ANALYSIS OF TSS MASS RESUSPENSION DURRING A VESSEL MANEOUEVER

The estimated resuspension mass of total suspended solids (TSS) was 100 tons



THANK YOU!

