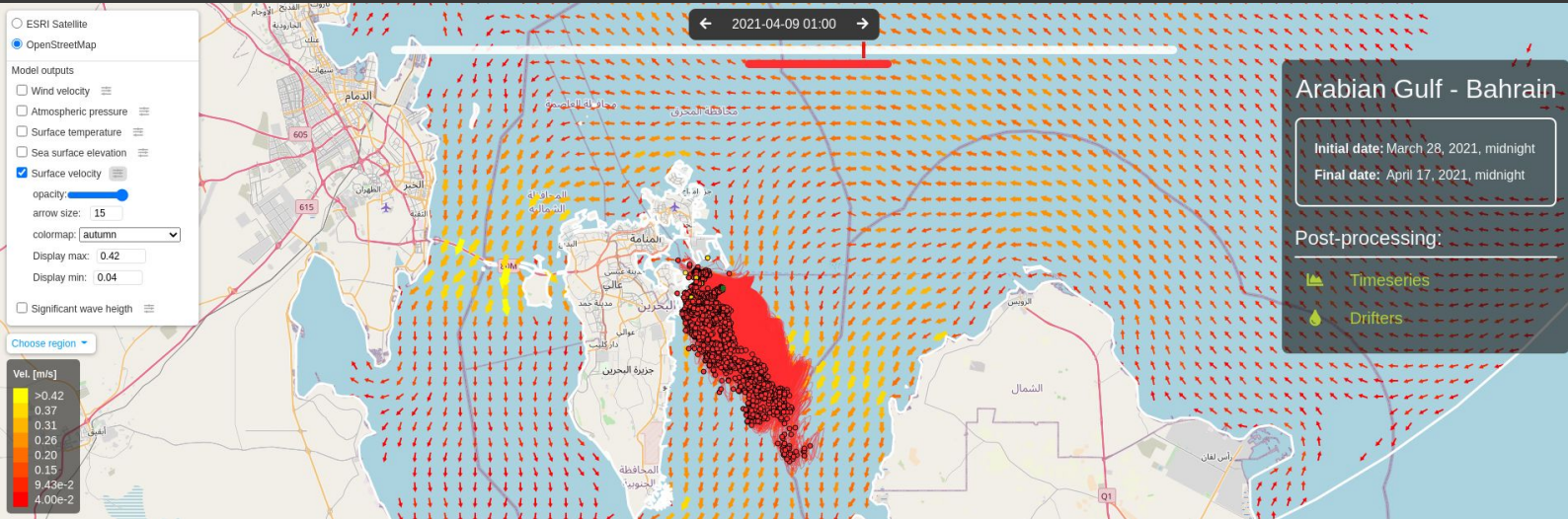# SEALAB

Monitoring

Pollution and accidents require quick response in order to minimize environmental and safety impacts as well as economic loss. SEALAB Monitoring is a web-based forecasting solution aiming to support decision processes of coastal waters stakeholders, e.g. Port and Environmental Authorities community. In addition, the tool enables to simulate specific scenarii and to devise a response strategy within minutes.

The interface solves the daily challenges of:
- Operational users to plan their operations at sea by using high-resolution forecasts of the sea state.
- Environmental representatives who need to evaluate the environmental impact of marine activities and to decide the best response strategy to tackle marine pollution.

The interface is based on a number of numerical models that simulate sea and weather conditions as well as the transport of different drifting objects and substances.

The outputs you can expect from SEALAB Monitoring are:
- 10-day forecast
- Daily automatic update
- Regional and local scale insets
- Pollutant dispersal
    - Oil spill
    - Sediments plume
    - Plastic debris
- Early warning system (on-demand)
- Integration to existing Communication & Dispatching platforms (on-demand)