SatBałtyk System- modern tool for monitoring and research of the Baltic Sea

Mirosława Ostrowska

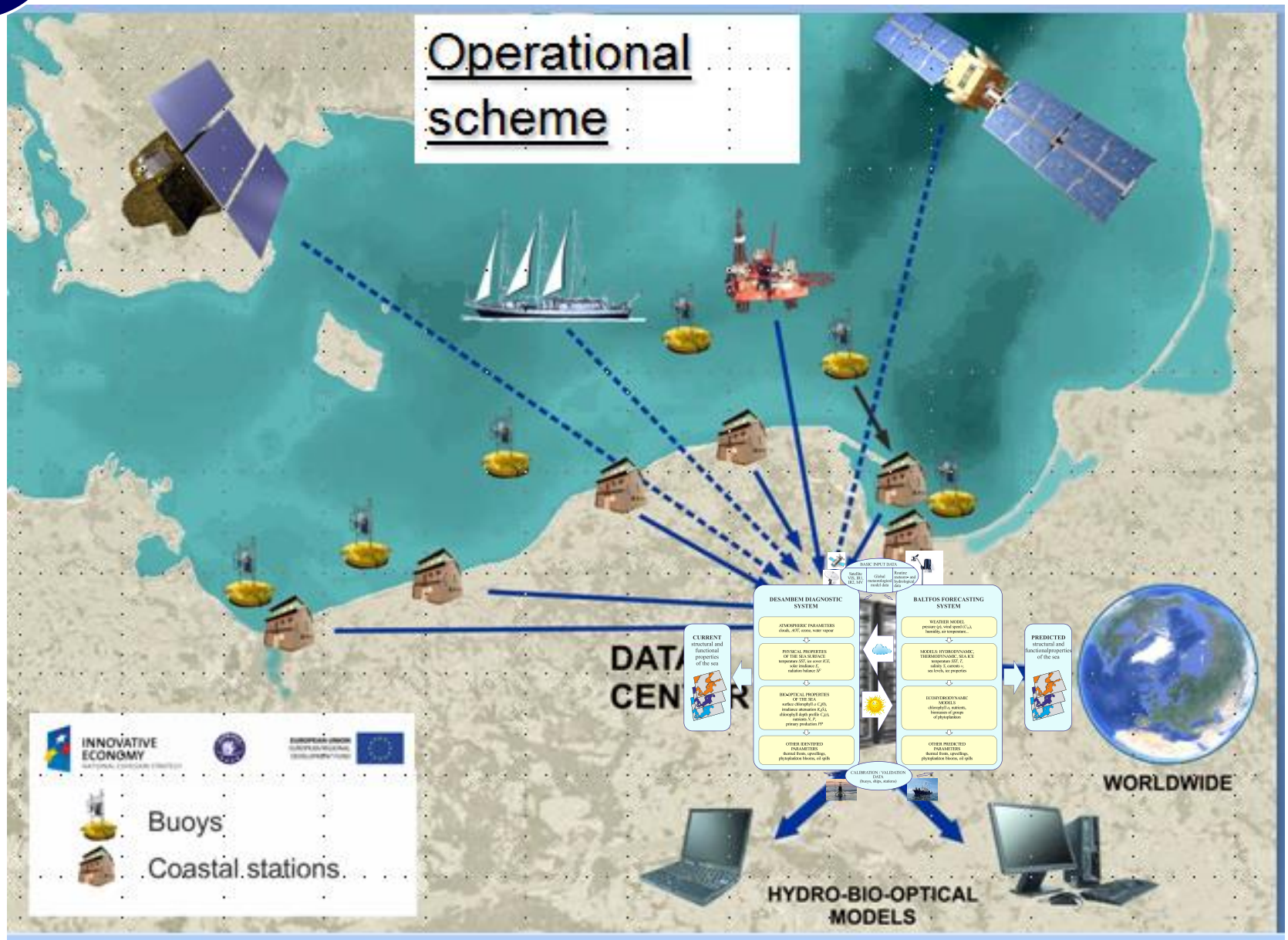
Institute of Oceanology
Polish Academy of Sciences

Scientific Consortium SatBałtyk:

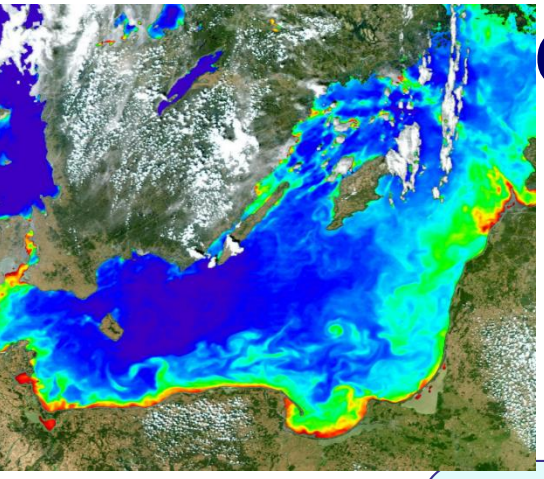
- Institute of Oceanology Polish Academy of Sciences
- Institute of Oceanography at the University of Gdańsk
- Institute of Physics at the Pomeranian Academy in Słupsk
- Institute of Marine Sciences at the University of Szczecin

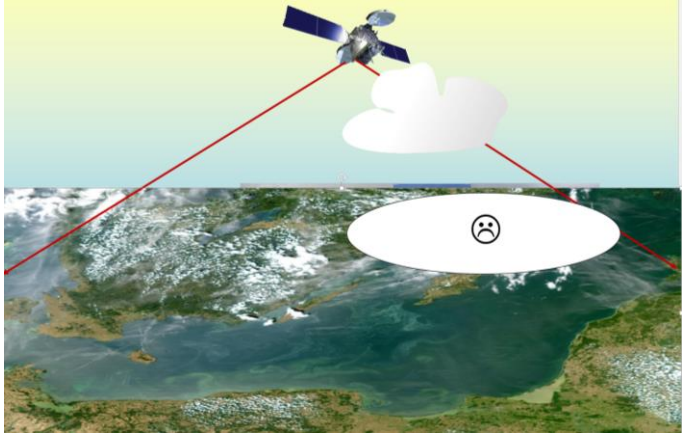
Satellite Monitoring of the Baltic Sea Environment – SatBaltyk founded by European Union through European Regional Development Fund (POIG 01.01.02-22-011/09)

SatBałtyk System - information streams



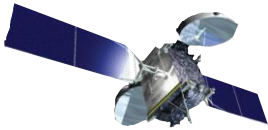
Computing Centre SatBałtyk System

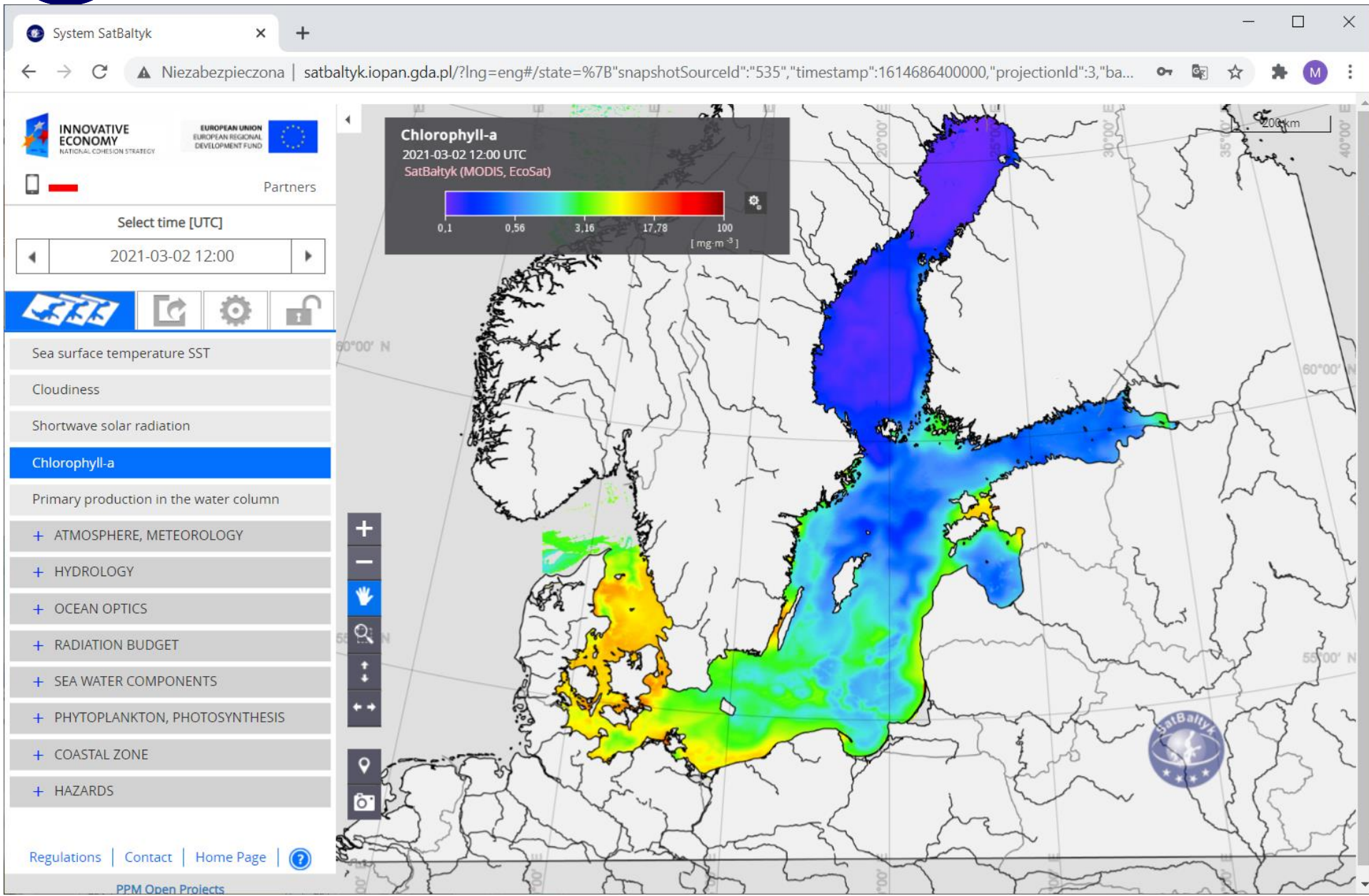




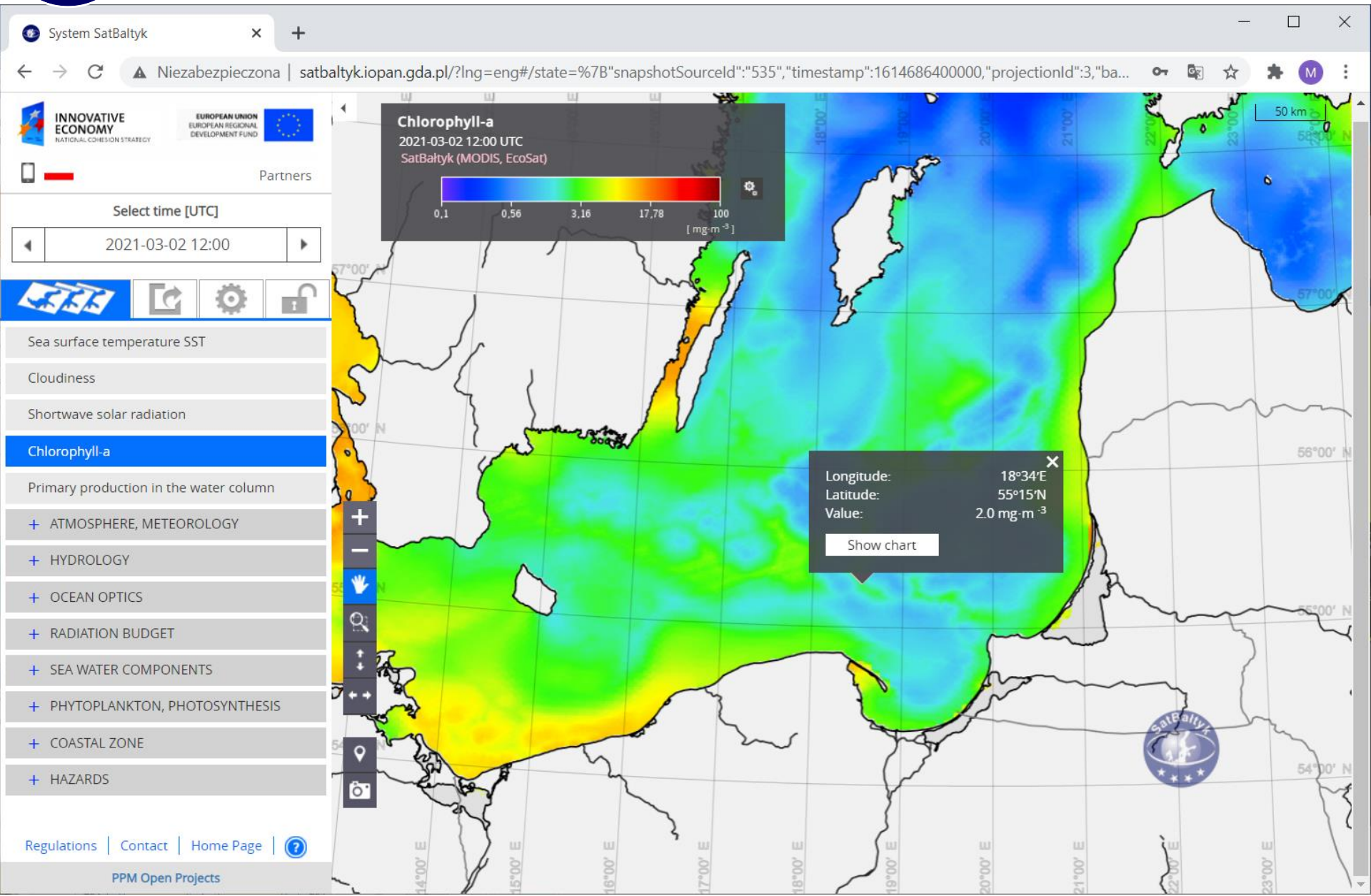
Woźniak et al, 2011, SatBałtyk – A Baltic environmental satellite remote sensing system – an ongoing project in Poland, Oceanologia, 53 (4)

www.satbaltyk.pl

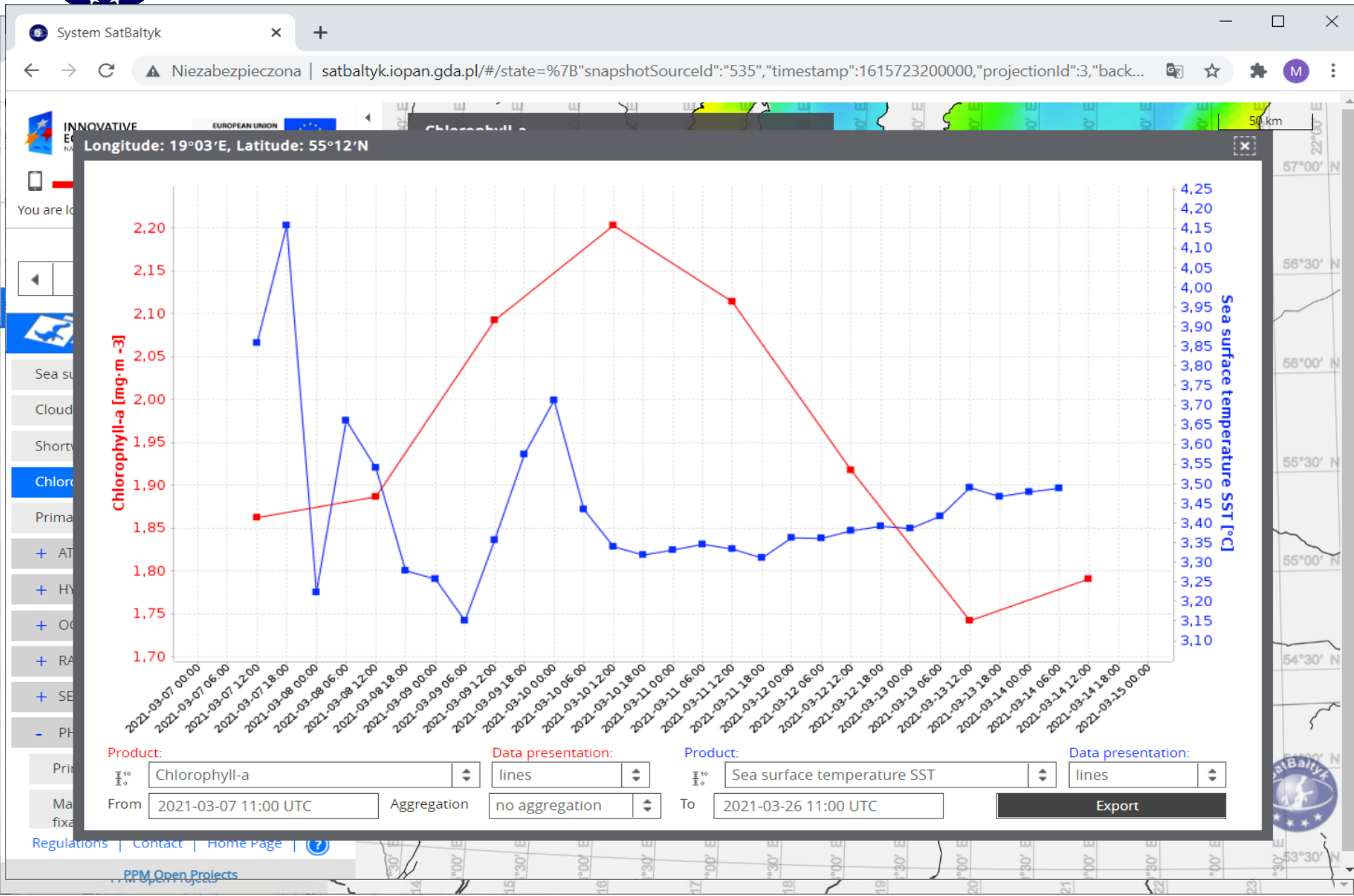




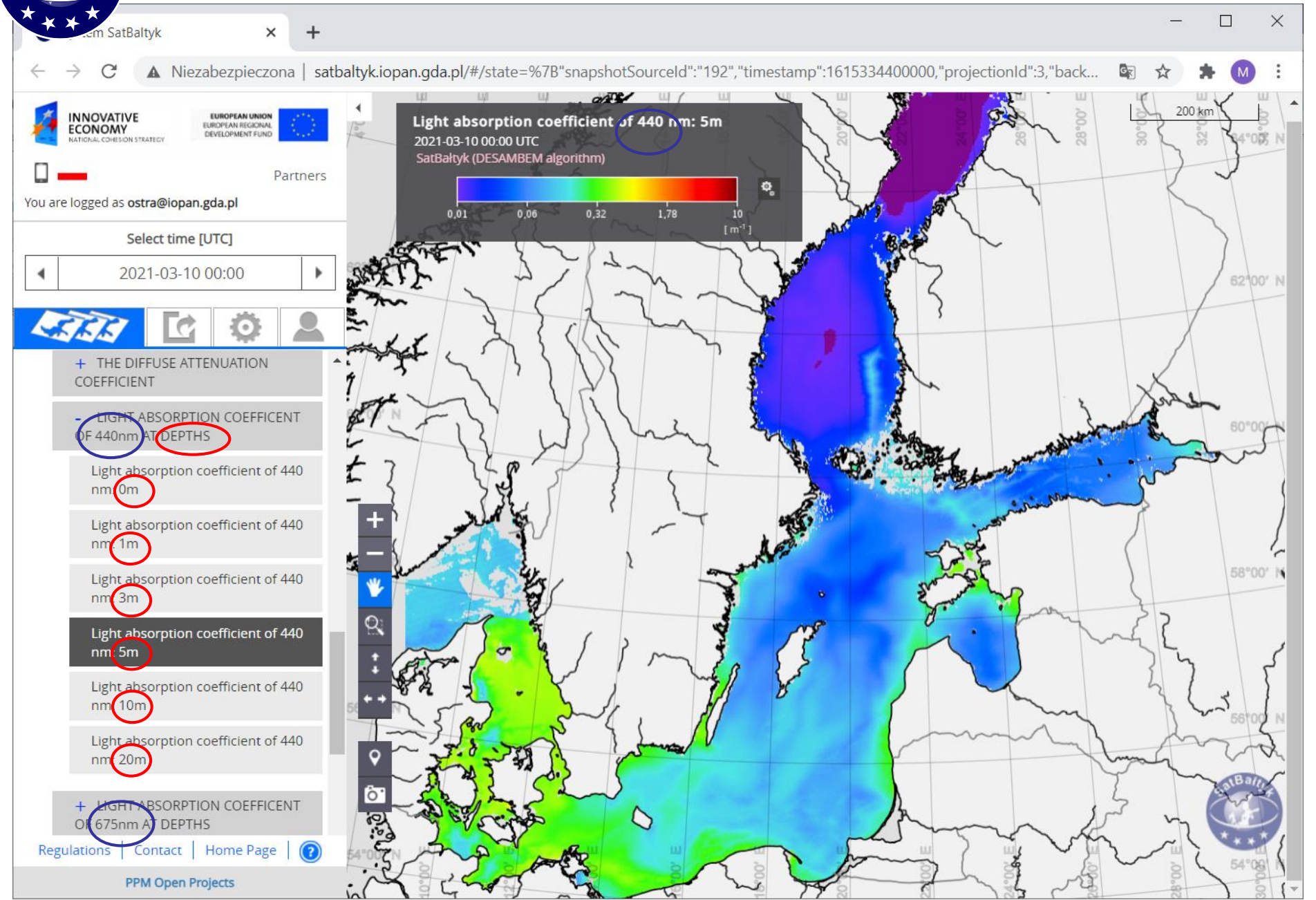
Chlorophyll-a



Chlorophyll-a vs Sea Surface Temperature SST



Light absorption coefficient of 400nm, 5m



important themes in contemporary marine science:

1. The influx and distribution of the solar radiation energy consumed during various processes in the atmosphere-sea system.
2. The radiation balance of the sea surface.
3. The optical conditions in which photosynthesis of organic matter takes place and the condition of marine plant communities.
4. Distributions of sea surface temperature (SST) and the links between this temperature and various phenomena occurring in the sea.
5. Hazards and effects due to storm states in the coastal zone of the sea.

Phenomena and Processes