

**Interreg**  
North Sea Region  
**Jomopans**

European Regional Development Fund



EUROPEAN UNION

# JOMOPANS

JOINT MONITORING PROGRAMME FOR AMBIENT NOISE IN THE NORTH SEA

Niels Kinneging and René Dekeling

June 2018




Rijkswaterstaat  
Ministerie van Infrastructuur en Waterstaat

# TG Noise Guidance documents



# JOMOPANS – Project Presentation

- ▶ Funding: EU - Interreg North Sea Region

- ▶ Priority 3  Sustainable North Sea Region: Protecting against climate change and preserving the environment

- ▶ Duration: Jan 2018 – Dec 2020

- ▶ Budget: € 3.5 Million

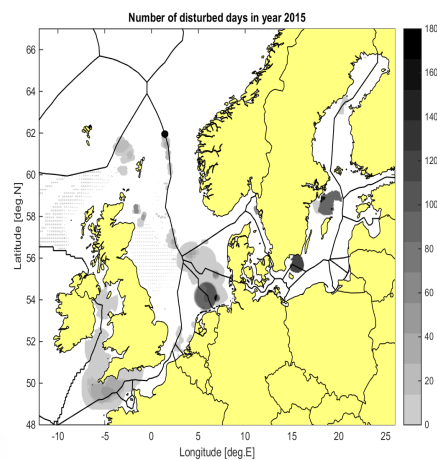
- ▶ Consortium: 11 partners

- ▶ Project Coordinator:  
Rijkswaterstaat, The Netherlands

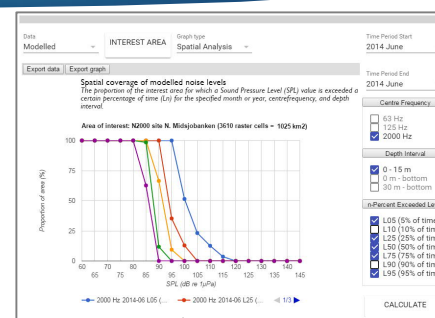
# Elements of Jomopans



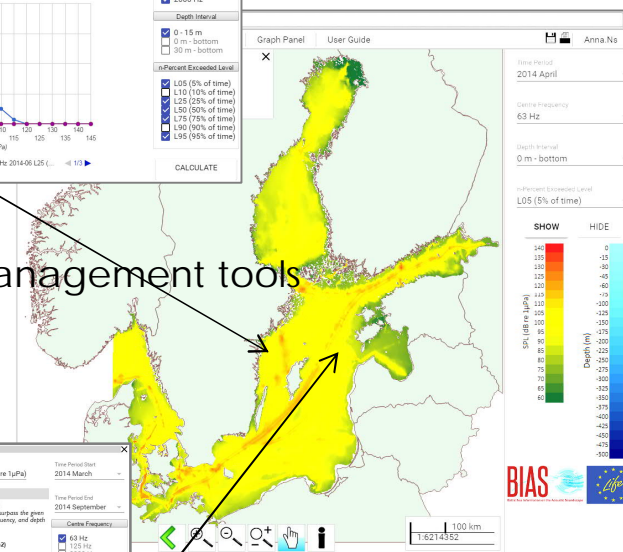
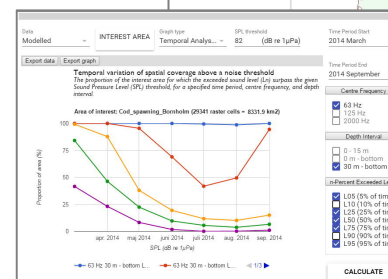
measurements



modelling



management tools



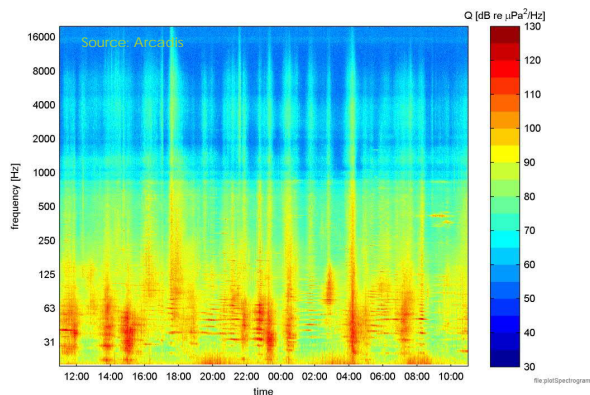
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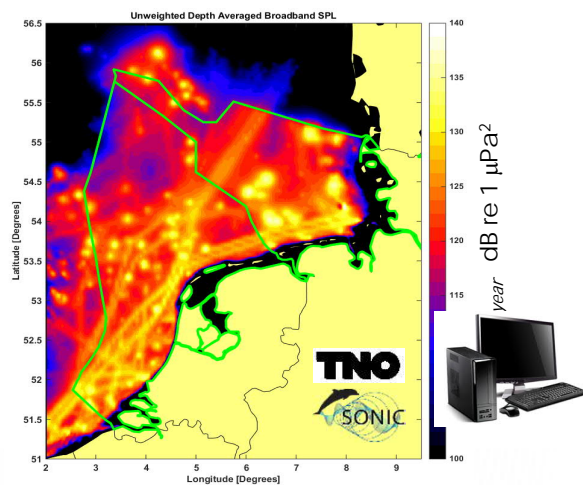
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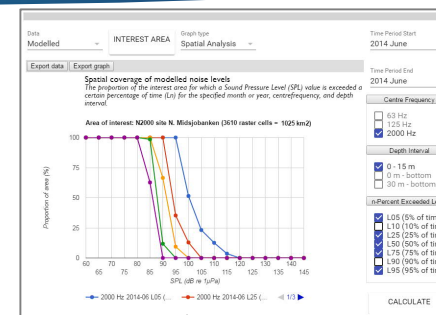
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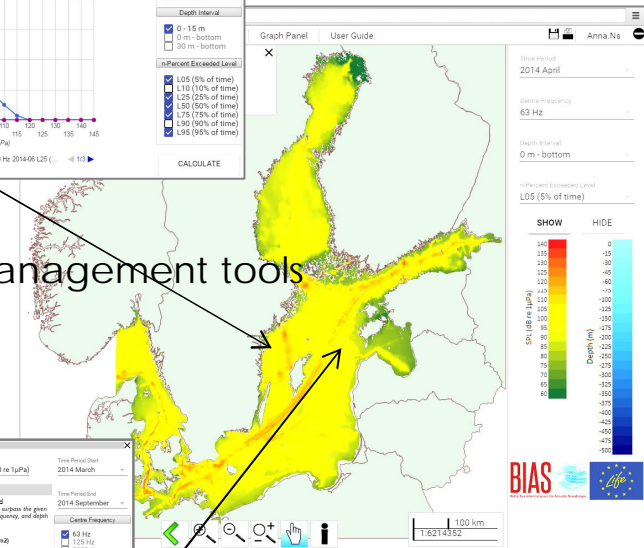
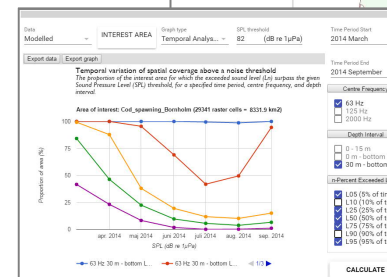
measurements



modelling



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# Measurements & Modelling

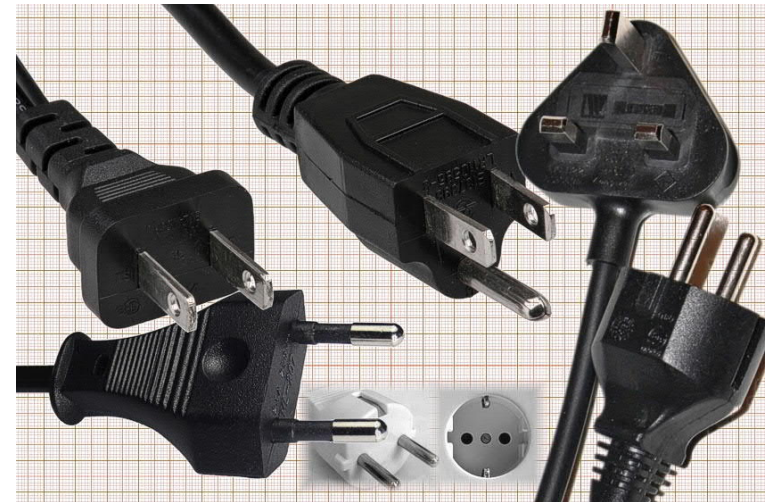
- ▶ Measurements essential
  - ▶ For ground truth models
  - ▶ For determining source characteristics
- ▶ Monitoring is more reliable and cost-effective by use of modelling
  - ▶ Reduce time to establish trend
  - ▶ Modelling based choice for locations
  - ▶ Distinguishing between natural and anthropogenic sources
  - ▶ Overview of actual levels and spatial variability
    - ▶ Cannot be achieved with limited number of stations
  - ▶ Enables forecast of changes and their effects
    - ▶ Estimate efficacy of alternative mitigation actions
  - ▶ Construction of hindcast

# Workpackages

- ▶ WP1 Project management (RWS, Niels Kinneging)
- ▶ WP2 Communication & harmonization (FOI, Mathias Andersson)
- ▶ WP3 Standardization (NPL, Stephen Robinson)
- ▶ WP4 Modelling (TNO, Christ de Jong)
- ▶ WP5 Measurements (BSH, Jens Fischer)
- ▶ WP6 Combination M&M (CEFAS, Nathan Merchant)
- ▶ WP7 GES management tools (AU, Jakob Tougaard)

# WP3 Standardization

- ▶ Speaking the same language
- ▶ Interoperability
  - ▶ Systems working together
  - ▶ Data exchange
- ▶ Comparable results
  - ▶ Using same metrics
  - ▶ Employ same procedures
  - ▶ Perform same processing





# PARTNERS

-  ► Rijkswaterstaat - NL(lead)
-  ► Centre for Environment, Fisheries & Aquaculture Science (Cefas)– UK
-  ► Federal Maritime and Hydrographic Agency – DE
-  ► TNO – NL
-  ► Aarhus University – DK
-  ► Swedish Defence Research Agency – SE
-  ► Royal Belgian Institute for Natural Sciences – BE
-  ► Marine Scotland – UK
-  ► Norwegian Defence Research Establishment - NO
-  ► National Physical Laboratory – UK
-  ► Institute of Marine Research - NO

# BIAS, Jomopans, Jonas

