

## Maasvlakte II

### did species distribution already change after setting up a marine nature compensation area?

Monitoring abundance of common scoter (*Melanitta nigra*) and other species by Bureau Waardenburg



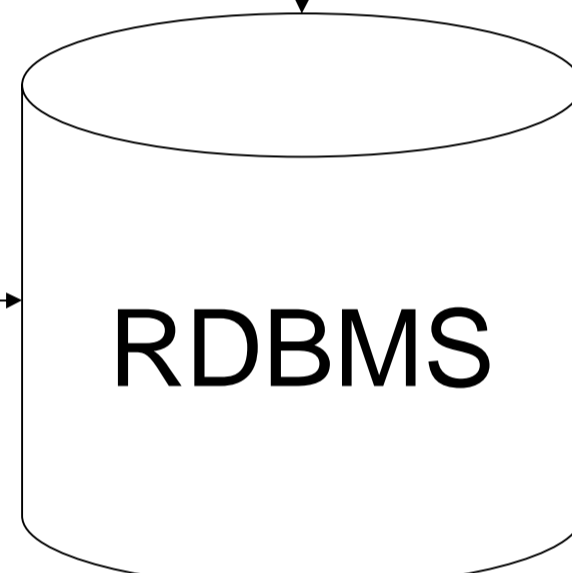
Monitoring various parameters of (non) benthic species by IMARES



modelling various physical parameters by Arcadis



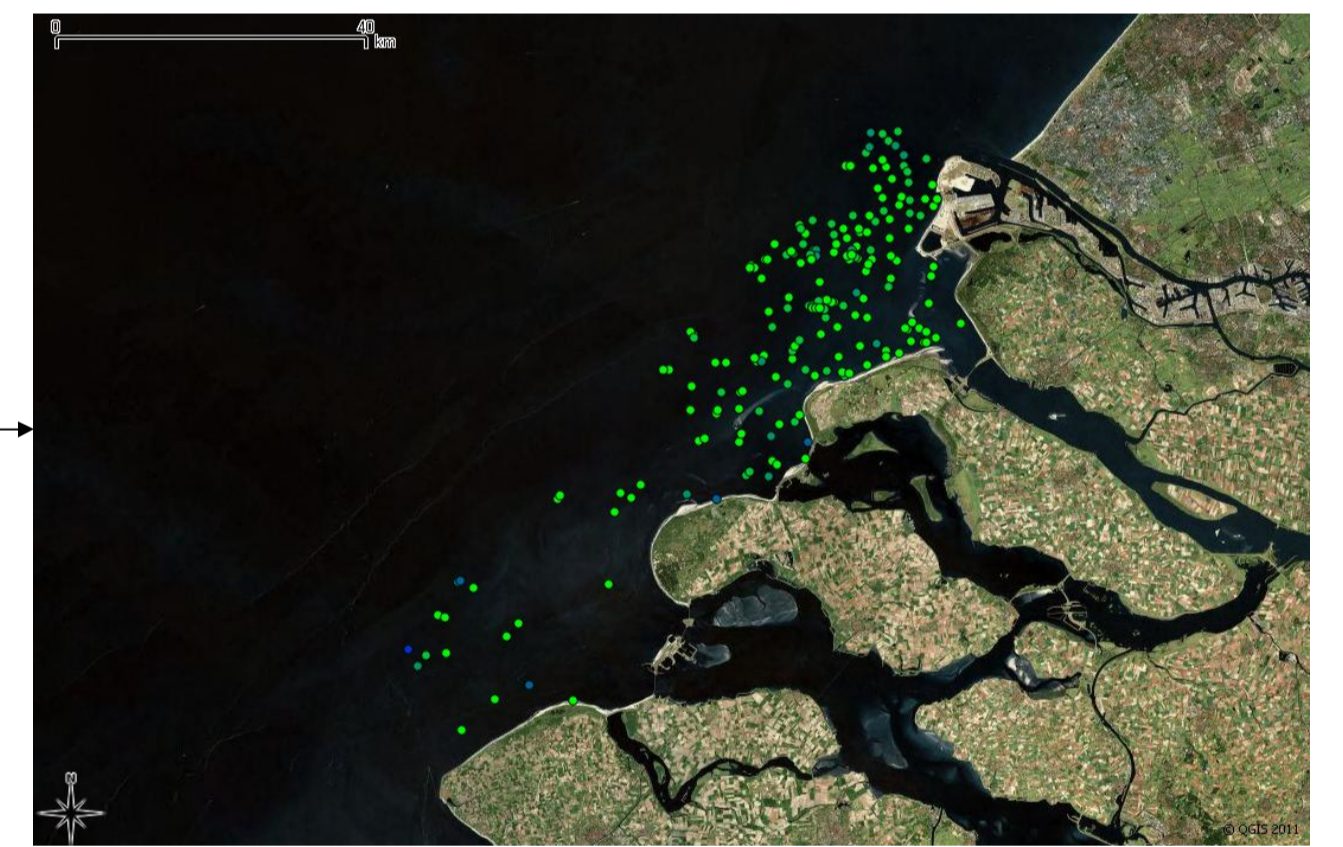
data stored in online (geo)database



**T0 2004-2006**  
Number of *Melanitta nigra*



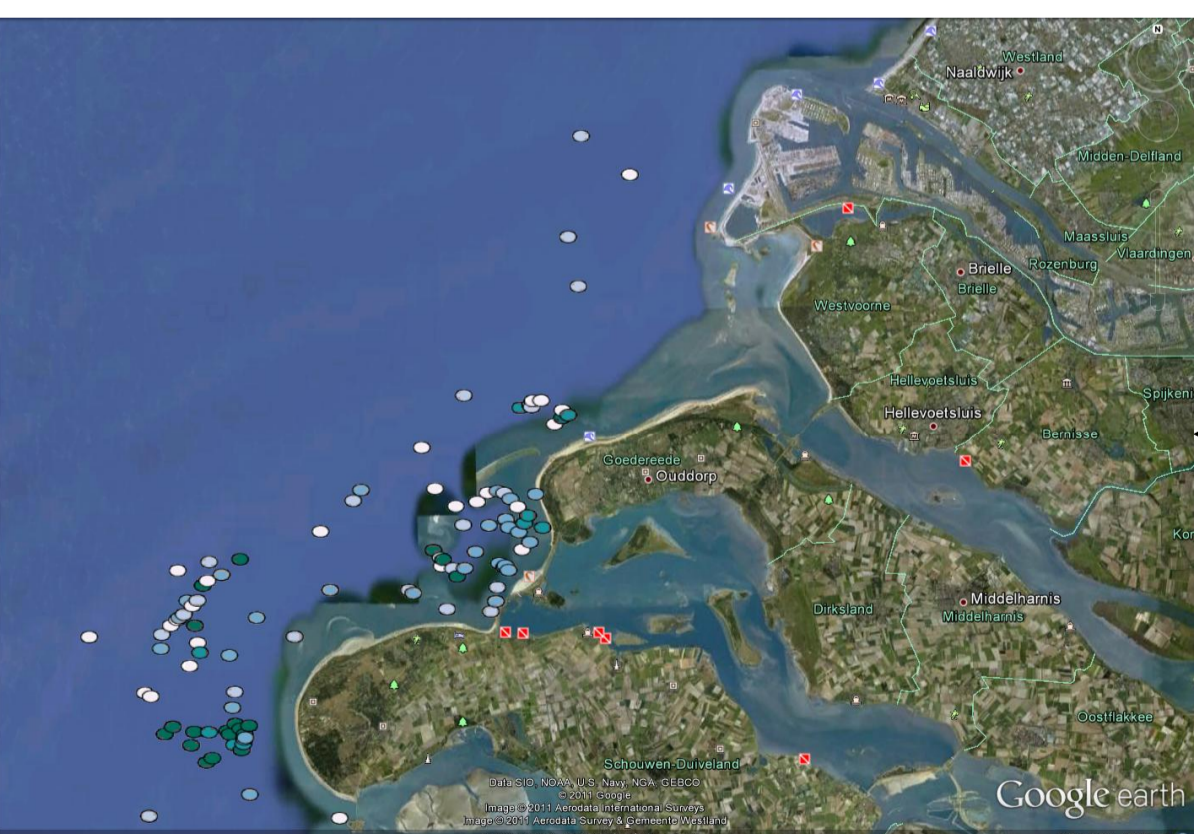
**T0 2004-2006**  
Dry weight of prey (*Ensis*, *Venus*, *Nereis*)



Geoserver serves data to:

- QGIS
- Google Earth
- OpenLayers
- ArcGIS

**T1 2010-2011**  
Number of *Melanitta nigra*



**T1 2010-2011**  
Dry weight of prey (*Ensis*, *Venus*, *Nereis*)



#### Datamanagement using

- PostgreSQL/PostGIS
- OPeNDAP/THREDDS

#### Serving data through

- OpenGIS (QGIS)
- WMS, WFS, WCS, GML, KML

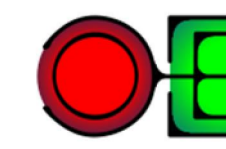
#### Analysing using

- OpenGIS (QGIS)
- PostgreSQL/PostGIS (standard SQL)
- Python, R, ...

In cooperation with:



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