

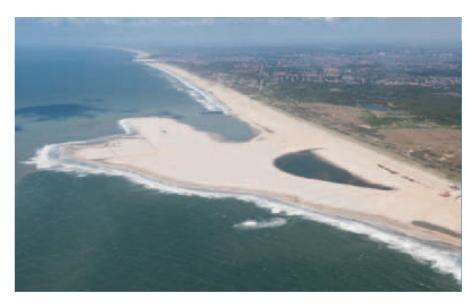




JERICO summer school 2014 From Data to Decisions

Marine monitoring > data > information > knowledge

monitoring version control EU portal landscape from points to maps model coupling 4th paradigm, Big data data acquisition
data management
data dissemination
data analysis
data assimilation
data interpretation





House-keeping

- Lodging is 150 EUR/week
 - Pay cash on Tuesday: proper receipt
 - Electronically afterwards, no receipt
- Certificate of participation afterwards by mail [only after payment]
- Wifi in bungalows (see sticker on TV), and in central cafeteria
- Lunch is provided by JERICO (included in rental of classroom)
 - Please provide dietary wishes
- Lectures always here in cafeteria, except...
 - Tuesday at Deltares in Delft, bus leaves 8:00 straight
 - Tuesday other participants too (Dutch government etc.)
- Lunch downstairs in pan cake restaurant 12:30
- Everyone a 10 min presentation: 4 per day (only Su, Mo, We, Th)
- Call/text me in case of problems: 00 31 6 1583 8512
- Latest program on wiki

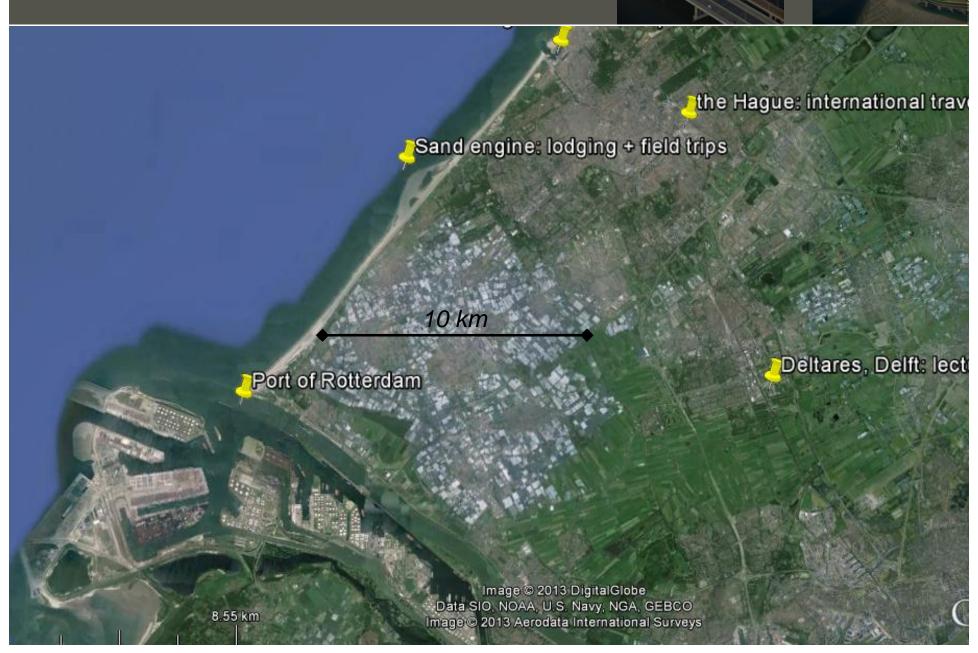
Program

unday 15 Kijkduin	From data to information
Morning 9:30	 Welcome and house-keeping Gerben de Boer (15 min) Data intensive science: the 4th Paradigm Gerben de Boer (15 min) Data and data quality Remi Laane (60 min) From data to new knowledge and better evidence: the role of marine observatories David Mills (30 min) Introduction to afternoon activities David Mills (15 min)
Afternoon	 Hand on session with EMECO Datatool David Mills: Introduction to EMECO David Mills EMECO 1 hands on demonstration David Mills, Hanneke Baretta EMECO 2 hands on demonstration David Mills, Hanneke Baretta Discussion on the days proceedings David Mills
londay 16 Kijkduin	Data analysis and data mining
Morning 9:00	 Introduction to Subversion version control (communities for data analysis tools) Gerben de Boer (30 min) DIVA/DINEOF J.M. Beckers
Afternoon	DIVA/DINEOF J.M. Beckers
uesday 17 Deltares	Data dissemination
Morning 9:30	 8:00 bus leaves at Kijkduin, 9:30 start at Deltares in Delft EMODnet introduction, history, overview and outlook EMODnet secretariat, Ostende EurOBIS + ICES + VLIZ Carlos Pinto from ICES
Afternoon	 Introduction EMODnet physics lot + EuroGOOS + ROOSs: presentation EuroGOOS dep.secretary Patrick Gorringe, SMHI, Sweden MyOcean Copernicus services: presentation + exercises Hammarklint Thomas from SMHI, Sweden SeaDataNet: presentation + exercises Peter Thijsse from MARIS BV, NL EMODnet physics (continued): exercises EuroGOOS dep.secretary Patrick Gorringe, SMHI, Sweden

Program

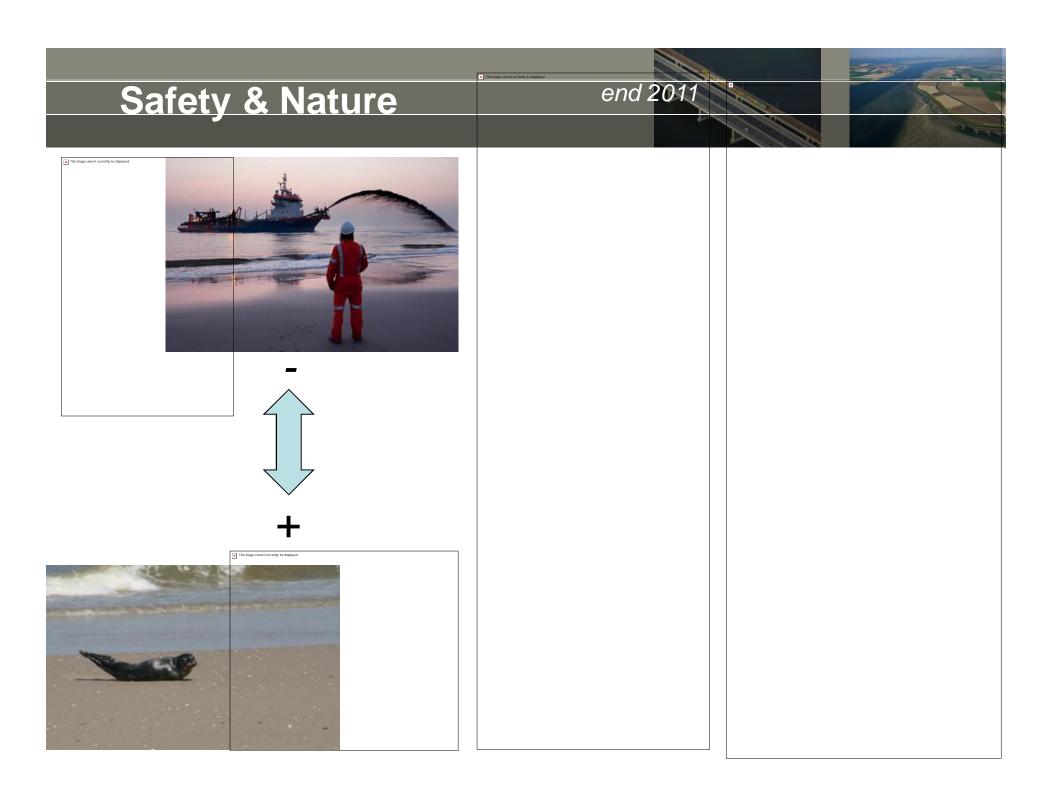
Wednesday 18 @ Kijkduin	Data management at EU level
Morning 9:00	 Data management plans 3Tu Datacenter Data curation / archiving 3Tu Datacenter Data citation: DOI via DataCite 3Tu Datacenter
Afternoon	Field trip to Sand Engine (Zandmotor) coastal observatory Roeland de Zeeuw, shoremonitoring.nl
Thursday 19 @ Kijkduin	Data dissemination with OpenDA
Morning 9:00	 General introduction Martin Verlaan Model calibration Martin Verlaan Exercise: 1st calibration Martin Verlaan The OpenDA black box approach Martin Verlaan Cpupling a model to OpenDA for calibration Martin Verlaan Exercise: calibration of a Delft3D model Martin Verlaan
Afternoon	 Kalman filtering in OpenDA Martin Verlaan Exercise: Hands-on exercise with Kalman filtering Martin Verlaan Couple a model with OpenDA for filtering Martin Verlaan Exercise: with model coupling to OpenDA Martin Verlaan
Friday 20 @ Kijkduin	Data processing via the web
Morning 9:00	 OpenEarth: standard web services for raw data, standard data, tailored data, graphics of data and catalogues of data. Gerben de Boer OGC Web processing of in situ data: case study EMODnet chemistry for MSFD purposes. Gerben de Boer

Venue: Sand engine nourishment & observatory



Venue: Sand engine nourishment & observatory





Happy stakeholders

Stakeholders:

- Government: long-term safety
- Dredging companies: turnover
- NGOs: more and better nature: long term mangement
- Scientist: huge experiment

Funding of monitoring:

- Government: Ministry public works (EIA)
 - Rijkswaterstaat + Consortium led by Deltares
- EU: regional development fund arranged by
 - Ecoshape (dredging companies + friends) & province
- National Science Foundation's (NWO) technology branch STW
 - 12 PhD students, 6 universities
- EU: ERC grant Prof Stive (TU Delft)
- Guest scientists from UK (Alex Souza), USA (Horner-Devine)



Data manegement: OpenEarth & 3TU datacenter

- Sand Engine researchers design their own data management
 - Version control on data
 - Server-processing instead of static data dump: keep data alive
 - 4 year embargo, open afterwards
 - Students requirement to add data during project, not near end
- 3TU Datacenter (3 polytech. universities), hosted by TU Delft
 - DataLab, next to data archive
 - Hire hardware from ICT service
 - Long-term storage
 - DOI
 - Wednesday morning data management session 3TU
 - Important Horizon 2020 funding requirement: data paragraph