How NEVREF hits Fugro's marine surveys

Ward Stolk

On the one hand, we don't care

- We work with client requirements
- Often defined by government specifications

On the other hand, we do care

- We are a consultant to our client as well
- Client often not familiar with all kind of models
- We are currently limited to old models (GEONZ97)
- Or to global models (DTU13)

Offshore safety

- Clients place offshore structures such as wind energy parks, platforms
- Structures need minimal clearance from maximum sea level height (highest astronomical tide, with storm surges etc.)
- Boat landings need a maximum clearance from LAT to be reachable in low tide situations as well

GNSS accuracy improving

- Vertical, stand-alone receiver GNSS accuracy now in order of 7-8cm. Below GEONZ97 model accuracy!
- All Marine Site Characterisation (geotechnical / geophysical) work is depth referenced

Integration between land and sea models

- Landfalls of cable routes

Integration with other countries

- Cable routes that cross country boundaries at sea

We need to implement the model in our software

- Requires clear and documented format
- Reference geodesy

Unique models

- No preliminary models with the same name as final model
- No small updates with the same name

Proper referencing

- Unique reference required
    - To an accepted publication
    - Better even to a government body (Dutch Hydrographic Service)