

# Update on Belgian tide gauge operations

NSHC Tidal Working Group 26  
6-7 February 2024

- New LAT surface project
- Observations at tide gauge location Ostend

# New LAT surface project

- Start november 2024
- Running time 2 years
- BEHO is in charge of the contract
- Ugent is contractor
- NGI and Flanders Hydraulics offer support

# Previous Belgian LAT projects

- LAT-v10-BCP-NA2007-interpol-200m
- G2LAT project (finished 2010)
- BLAST (finished 2012)

# LAT project

- changed inputs
  - Updated geoids (HBg18, Also Dutch and French updates)
  - Change in tide registrations :
    - Fully analog, digital as a final step
    - Fully digital
  - Off shore tidal level registrations
    - Hydrometeo platforms – long series , a few fixed locations
    - Adcp measurements – short series , 20+ locations
    - GNSS Tide level buoys – short series – few locations
  - Satellite data
  - Gravity data
  - GNSS data at fixed locations
  - Ship based GNSS, IMU measurements

# LAT project

- Current issues
  - Impact of change between previous analog registrations and current digital registrations
    - “slight differences” noticeable
    - Impact on further results needs to be assessed/quantified.
  - More to come

# Observations at tide gauge location Ostend



Tide gauge ( 2 locations since 1977)

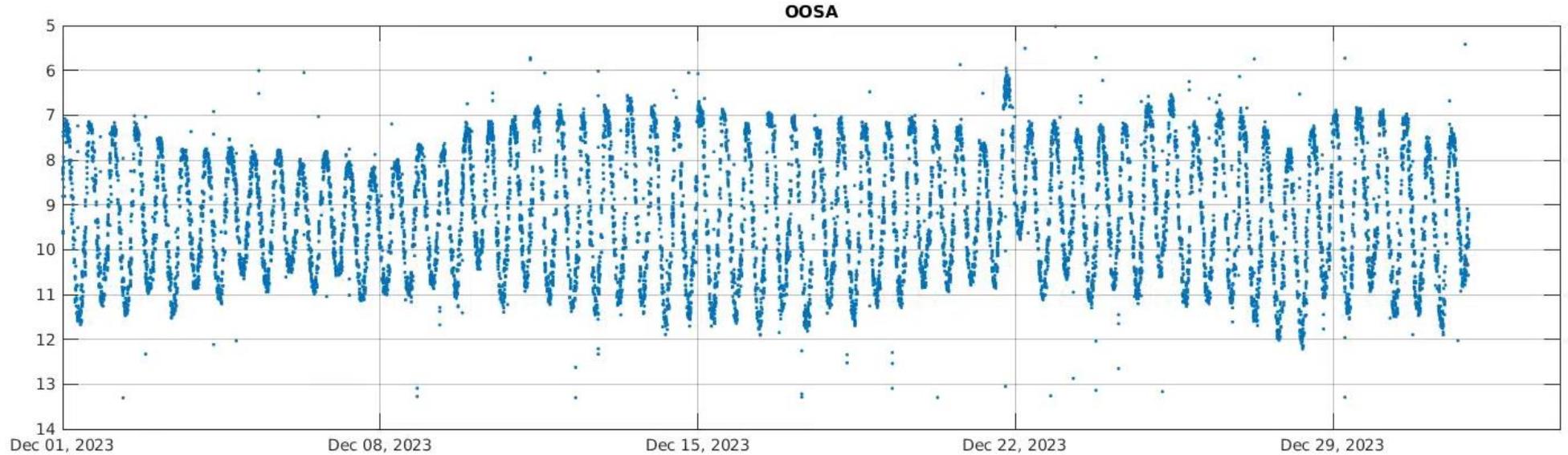
RTK gnss location (3 locations since 2003)

Gravimetry : annual measurements since 1996

GNSS-IR at tide gauge locations starts 2024

# Observations at tide gauge location Ostend

- GNSS-IR observations first results



- Questions