



Vlaanderen
is maritiem

Belgium Wave Measurement Network

ing. Johan Vercruysse

Coastal Division – Maritime and Coastal
Services



Belgium Wave Measurement Network

Coastal Division - Maritime and Coastal Services

(<https://www.agentschapmdk.be/en>)



Kust



Scheepvaart-
begeleiding



Loodswezen



Vloot



Belgium Wave Measurement Network

Coastal Division



Sea defenses and
coastal
management



Coastal
marinas

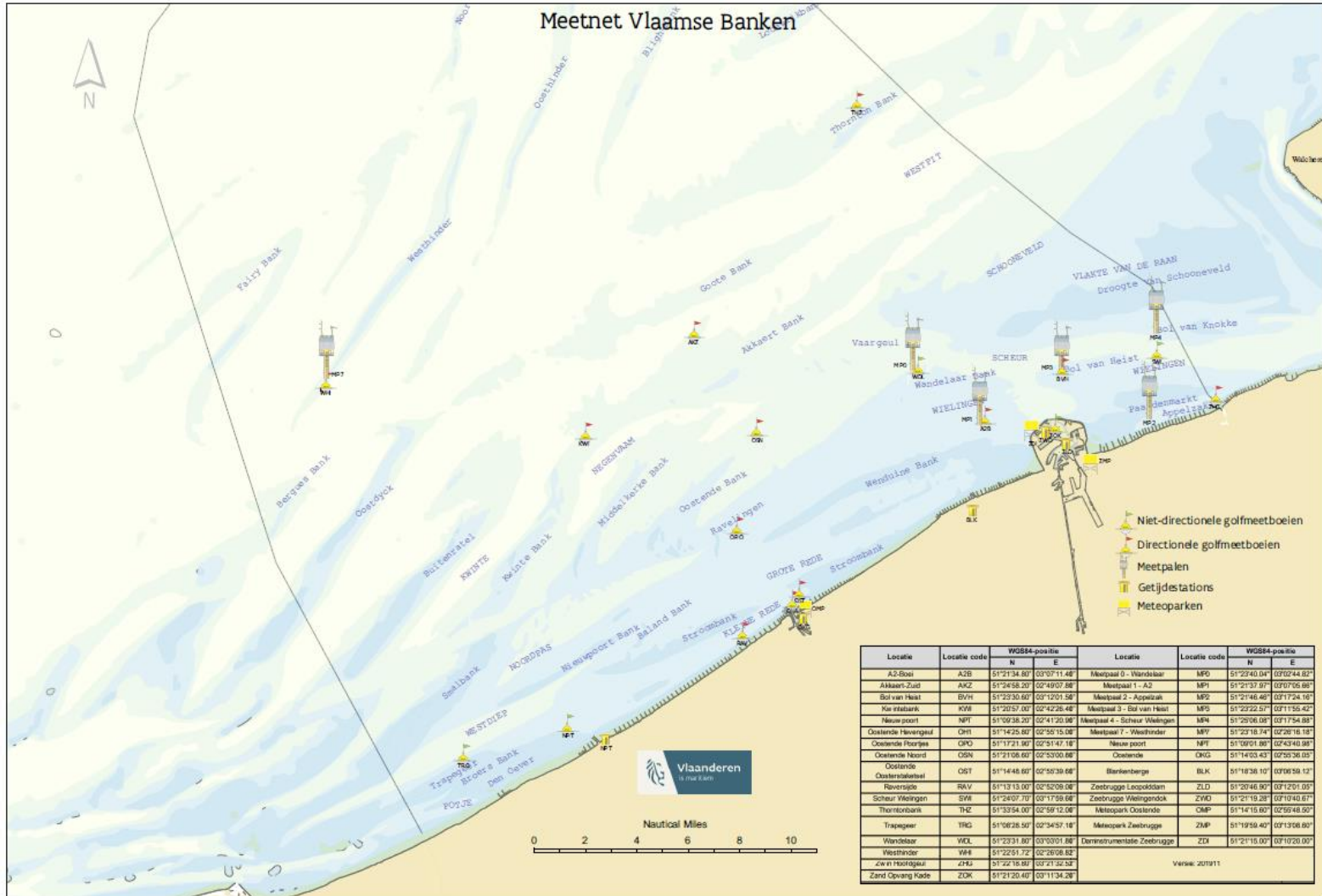


Flemish
hydrography

<https://www.agentschapmdk.be/en/departments/coastal-division>

Monitoring Network Flemish Banks

Overview of the network



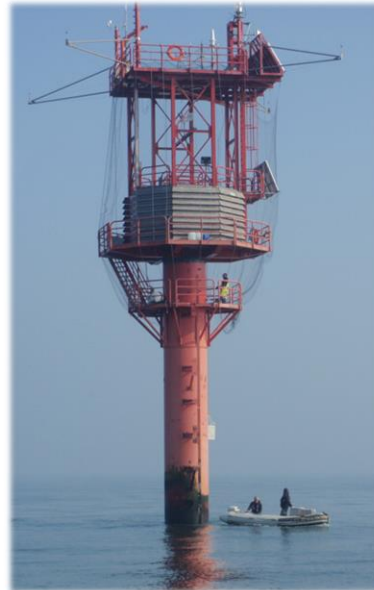
Acquisition of real time data:

- **Measuring network at sea:**
 - **Measurement platforms**
 - **Buoys**
- **Measuring network on the coast:**
 - **Tide gauge stations**
 - **Meteostations**
 - **Windlocations (Safekiting)**
 - **Measurements in the harbors:**
 - **Ostend: different locations with pressuresensors**
 - **Current measurements with HADCP**

Measuring waves by radars on fixed platforms



MOW0 - 4



MOW7 -
Westhinder



Radac
radar
Height &
Tide

Measuring waves with buoys



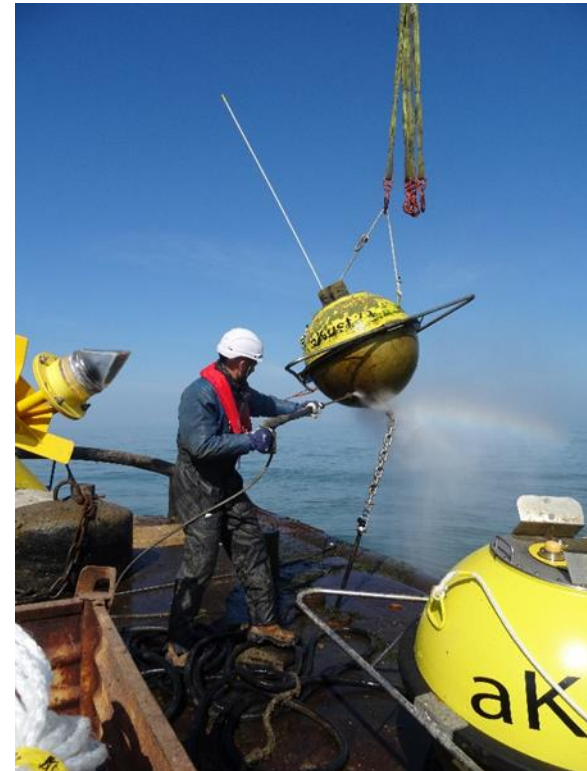
Datawell waverider
buoy



Beacon buoy

Measuring waves with buoys

Deployments of 14 months and maintenance on sea after 7 months

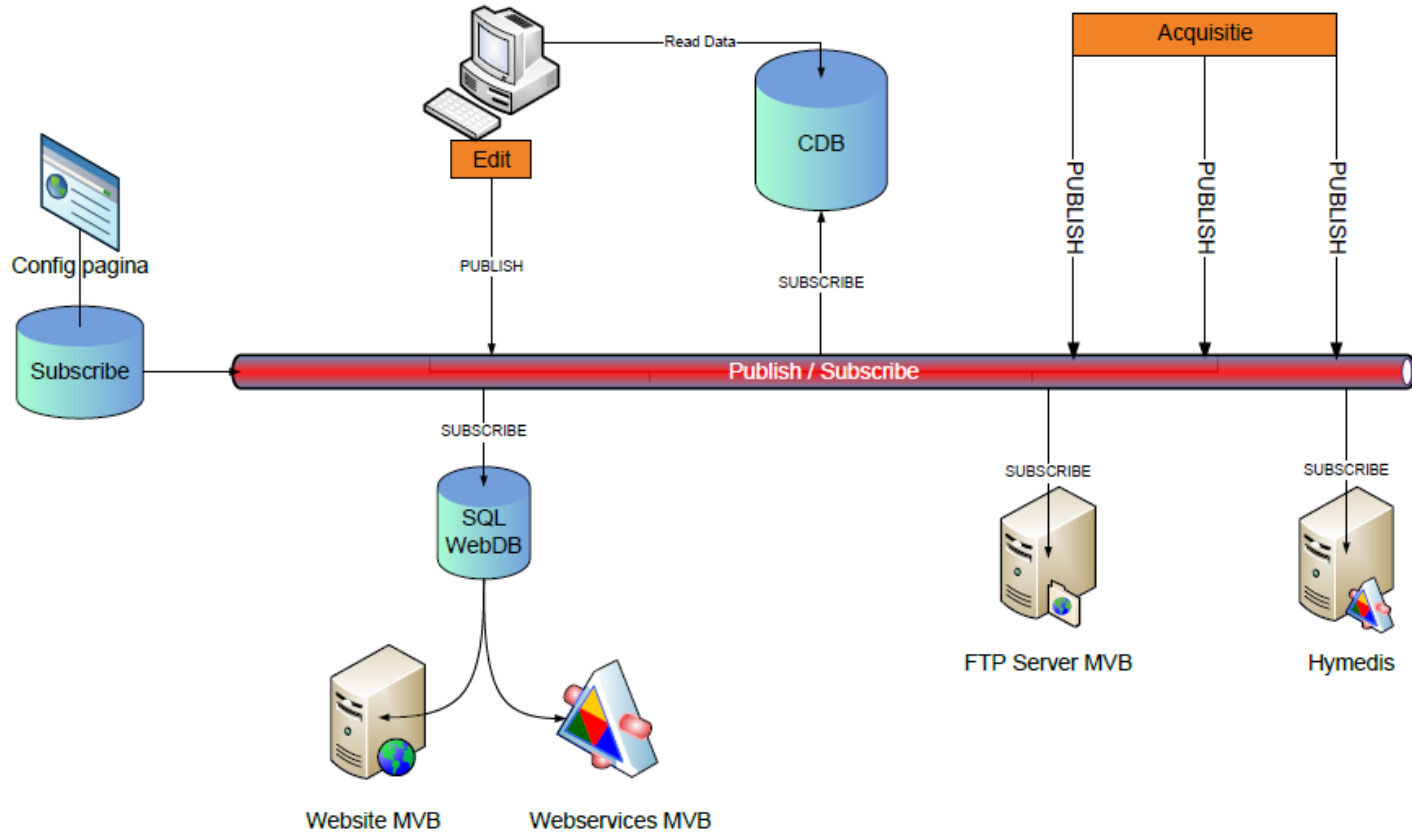


Measuring waves with buoys

Stock & Test equipment on shore

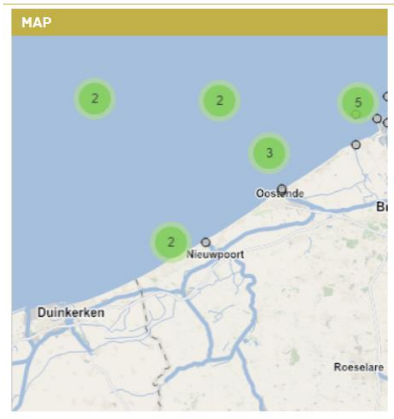


Monitoring Network Flemish Banks







Meetnet Vlaamse Banken

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CURRENT DATA		
Wave height		
Bol Van Heist - Buoy <small>01/12/2021 16:30</small>	200	cm
Kwintebank - Buoy <small>01/12/2021 16:30</small>	236	cm
Ostend eastern palisade - Buoy <small>01/12/2021 16:30</small>	183	cm
Scheur Wielingen - Buoy <small>01/12/2021 16:30</small>	170	cm
Westhinder - Buoy <small>01/12/2021 16:30</small>	229	cm
Tide TAW		
Nieuwpoort - Tide <small>01/12/2021 16:55</small>	113	cm
Ostend harbour - Tide <small>01/12/2021 16:55</small>	121	cm
Zeebrugge Leopold II dam - Tide <small>01/12/2021 16:55</small>	132	cm
Air temperature		
Ostend - Weather station <small>01/12/2021 16:50</small>	9	°C
Sea water temperature		
Ostend eastern palisade - Buoy <small>01/12/2021 16:30</small>	8,8	°C

SAFE KITING		
Blankenberge - Wind measurement		
6 BFT	WNW	
Nieuwpoort - Wind Measurement		
6 BFT	WNW	
Ostend - Weather station		
5 BFT	WNW	
Zeebrugge Dam instrumentation - Weather Station		
5 BFT	WNW	

NEWS

<https://meetnetvlaamsebanken.be/>



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Questions ?

Coastal Division – Maritime and
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