



CHIEF INSPECTORATE FOR ENVIRONMENTAL PROTECTION

# ***HARBOUR PORPOISE MONITORING under the State Monitoring Programme***

***past, present and future plans***

19th Jastarnia Group meeting, online, 20-22 March 2023



## Pilot monitoring of the marine species and habitats, 2015-2018 (1)

### Covered:

- 5 habitats (sandbanks 1110, estuaries 1130, lagoons 1150, sandbanks 1160, reefs 1170),
- 4 mammals species (3 seals: grey 1364, ringed 50, common 1365, harbour porpoise 1351),
- 2 lamprey species (river 1099, 1096),
- 5 fish species (twaite 1103, spinned loach 1149, weatherfis 1145, sichel 2522, bittering 5359).



## Pilot monitoring of the marine species and habitats, 2015-2018 (2)

### Comparison 2 monitoring sites

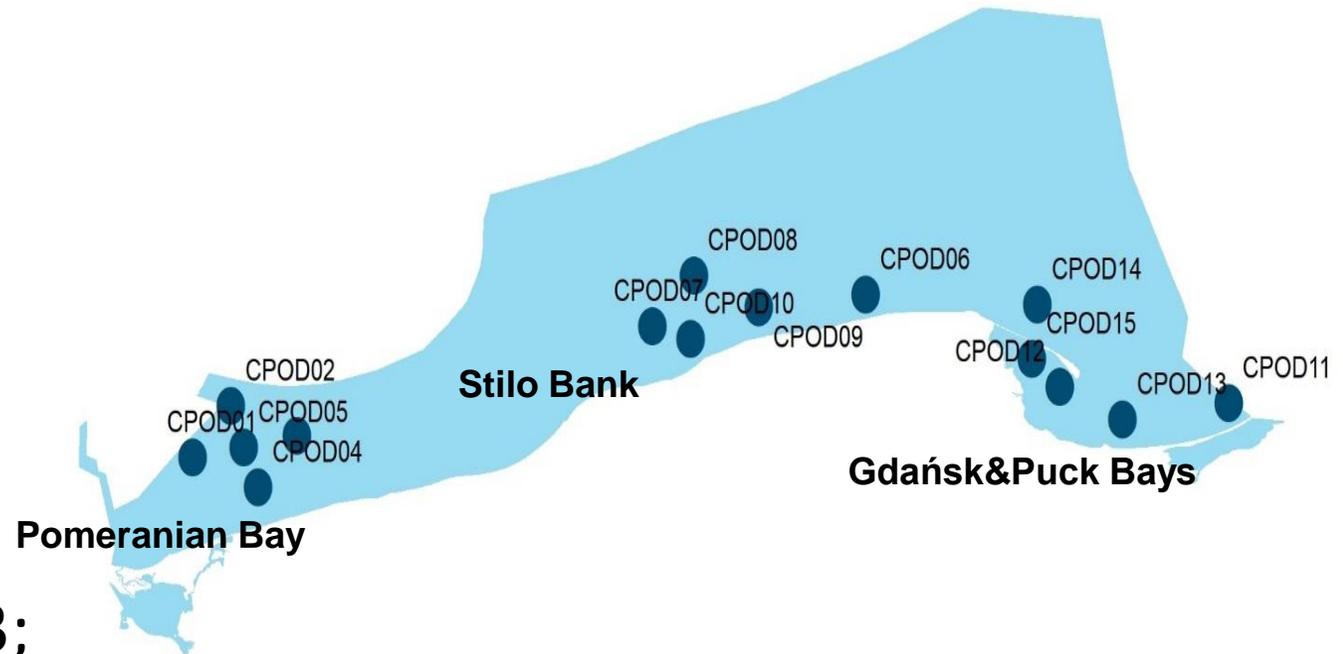
### SAMBAH vs. Polish state monitoring data 2016-2018

project/ monitoring	Mean density (N/km <sup>2</sup> )		Mean DPD	
	Pomeranian Bay	Stilo Bank	Pomeranian Bay	Stilo Bank
SAMBAH	0,0017	0,0003	0,43	0,08
State Monitoring Programme	0,03776	0,00109	4,56	0,32



## Present monitoring (1)

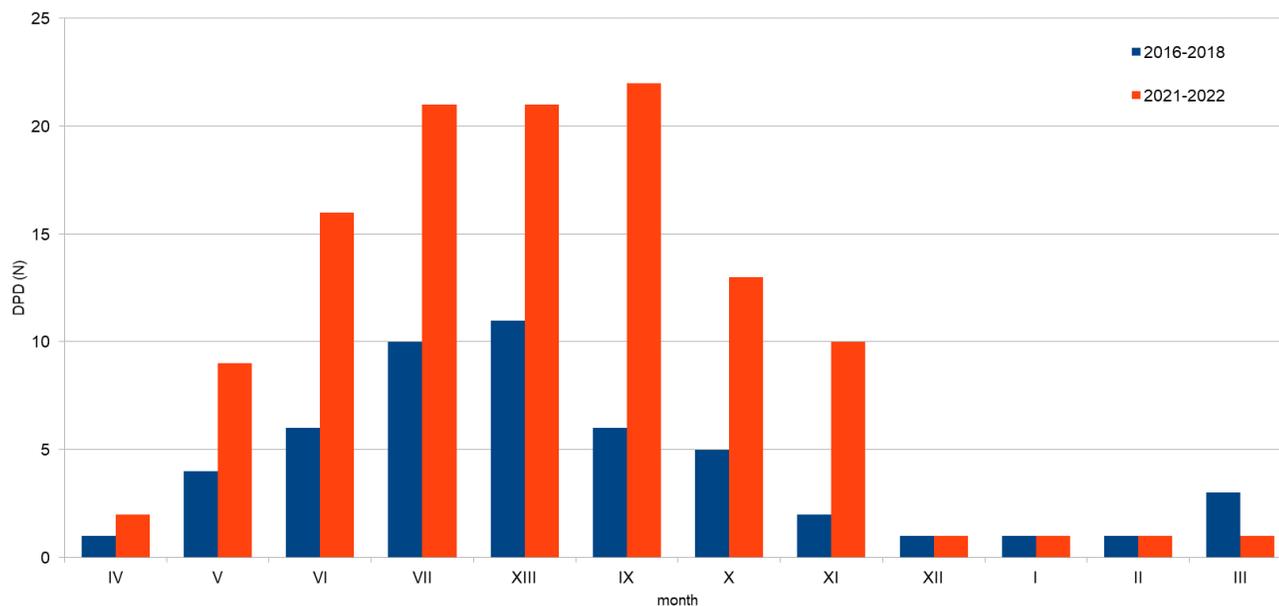
- started in March 2021,
- 3 monitoring sites:
  - ✓ Pomeranian Bay,
  - ✓ Stilo Bank,
  - ✓ Gdańsk & Puck Bays;
- continuation to March 2023;





## Present monitoring (2) Comparison 2 monitoring sites based on the Polish state monitoring data, 2015-2018 vs. 2021-2022\*

(\* based on **preliminary data**, covers **less than 2 years**, i.e. March 2021 – April 2022)



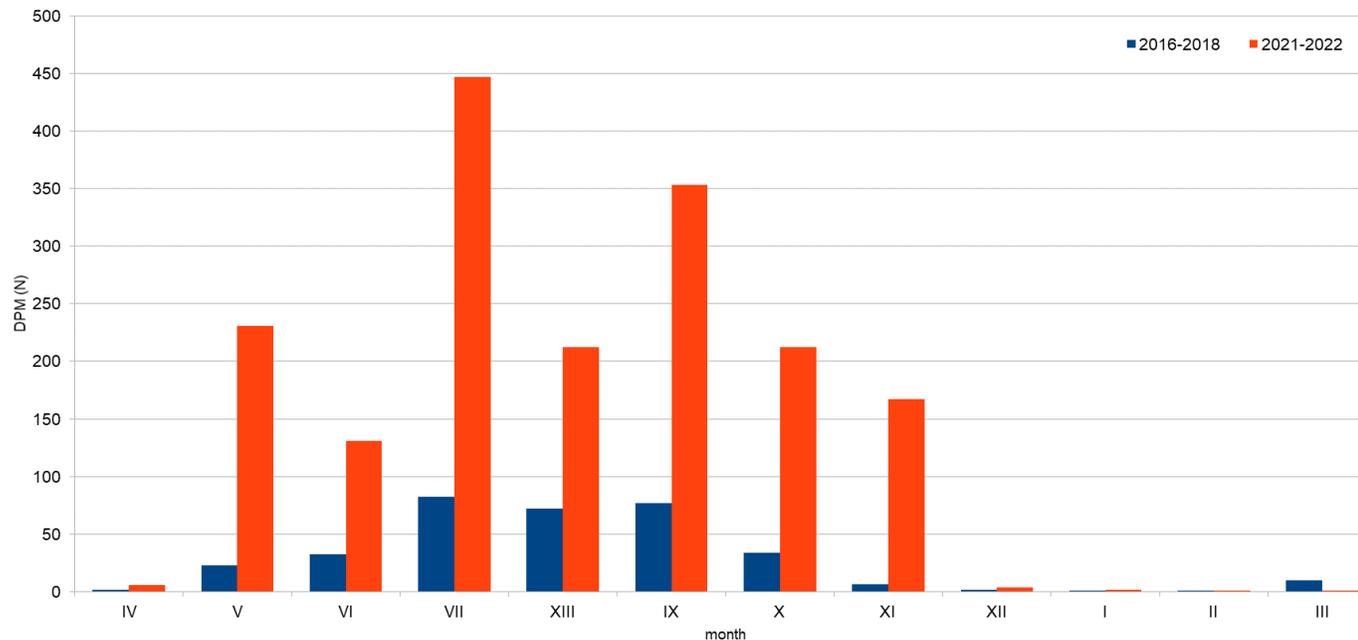
POMERANIAN BAY – Detection Positive Days (DPD - N)  
during the study period (March 2021 – April 2022)  
averaged over all 5 C-POD stations

Source: presentation *Spatial and temporal distribution of harbour porpoises (*Phocoena phocoena*) in the Polish Baltic Sea: Indications of an increase in abundance – State Monitoring Program IV 2021-III 2022 (preliminary data)*. Michał Malinga, HELCOM MAMA IC 1-2022.



## Present monitoring (3) Comparison 2 monitoring sites based on the Polish state monitoring data, 2015-2018 vs. 2021-2022\*

(\* based on **preliminary data**, covers **less than 2 years**, i.e. March 2021 – April 2022)



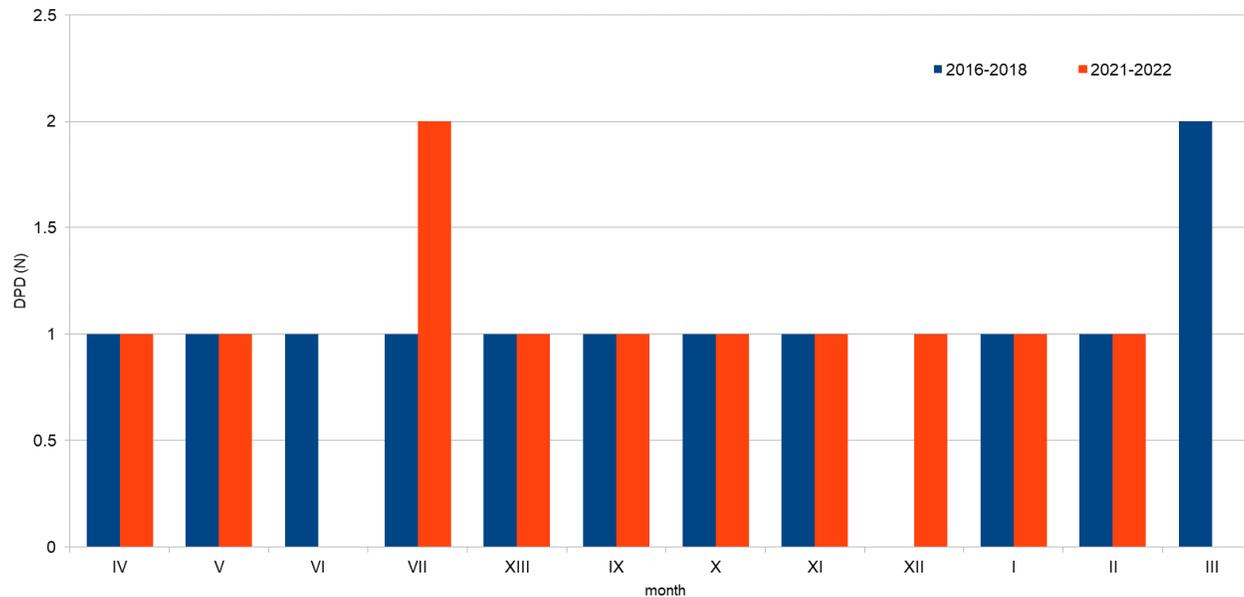
POMERANIAN BAY – Detection Positive Minutes (DPM - N) during the study period (March 2021 – April 2022) averaged over all 5 C-POD stations

Source: presentation *Spatial and temporal distribution of harbour porpoises (*Phocoena phocoena*) in the Polish Baltic Sea: Indications of an increase in abundance – State Monitoring Program IV 2021-III 2022 (preliminary data)*. Michał Malinga, HELCOM MAMA IC 1-2022.



## Present monitoring (4) Comparison 2 monitoring sites based on the Polish state monitoring data, 2015-2018 vs. 2021-2022\*

(\* based on **preliminary data**, covers **less than 2 years**, i.e. March 2021 – April 2022)



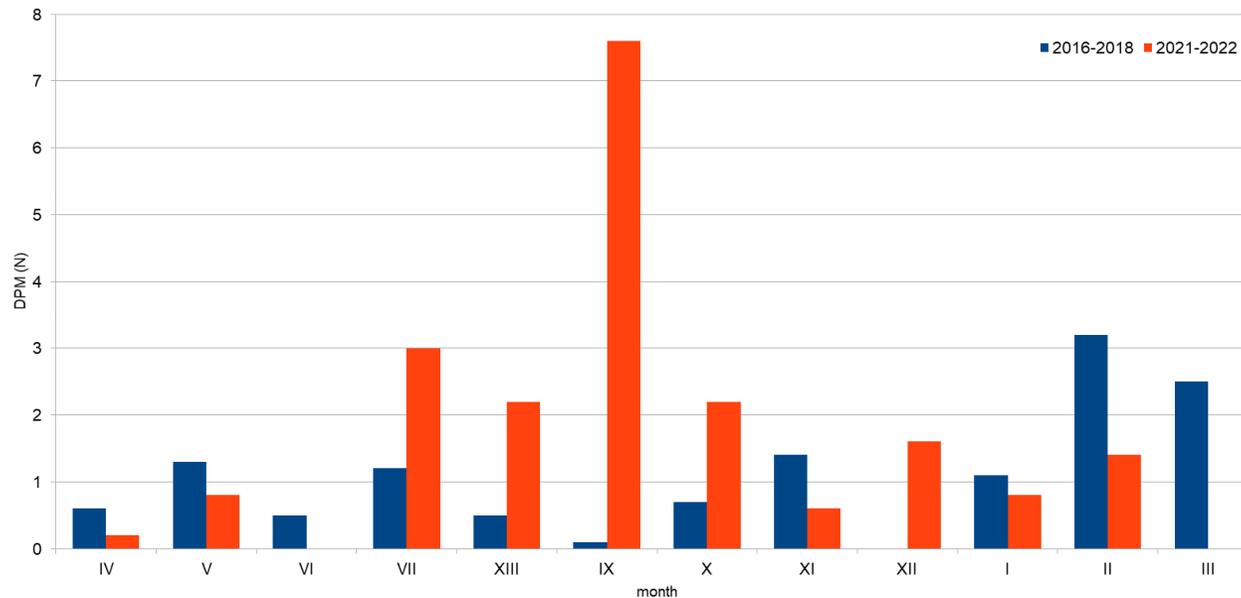
STILO BANK – Detection Positive Days (DPD - N) during the study period (March 2021 – April 2022) averaged over all 5 C-POD stations

Source: presentation *Spatial and temporal distribution of harbour porpoises (*Phocoena phocoena*) in the Polish Baltic Sea: Indications of an increase in abundance – State Monitoring Program IV 2021-III 2022 (preliminary data)*. Michał Malinga, HELCOM MAMA IC 1-2022.



## Present monitoring (5) Comparison 2 monitoring sites based on the Polish state monitoring data, 2015-2018 vs. 2021-2022\*

(\* based on **preliminary data**, covers **less than 2 years**, i.e. March 2021 – April 2022)



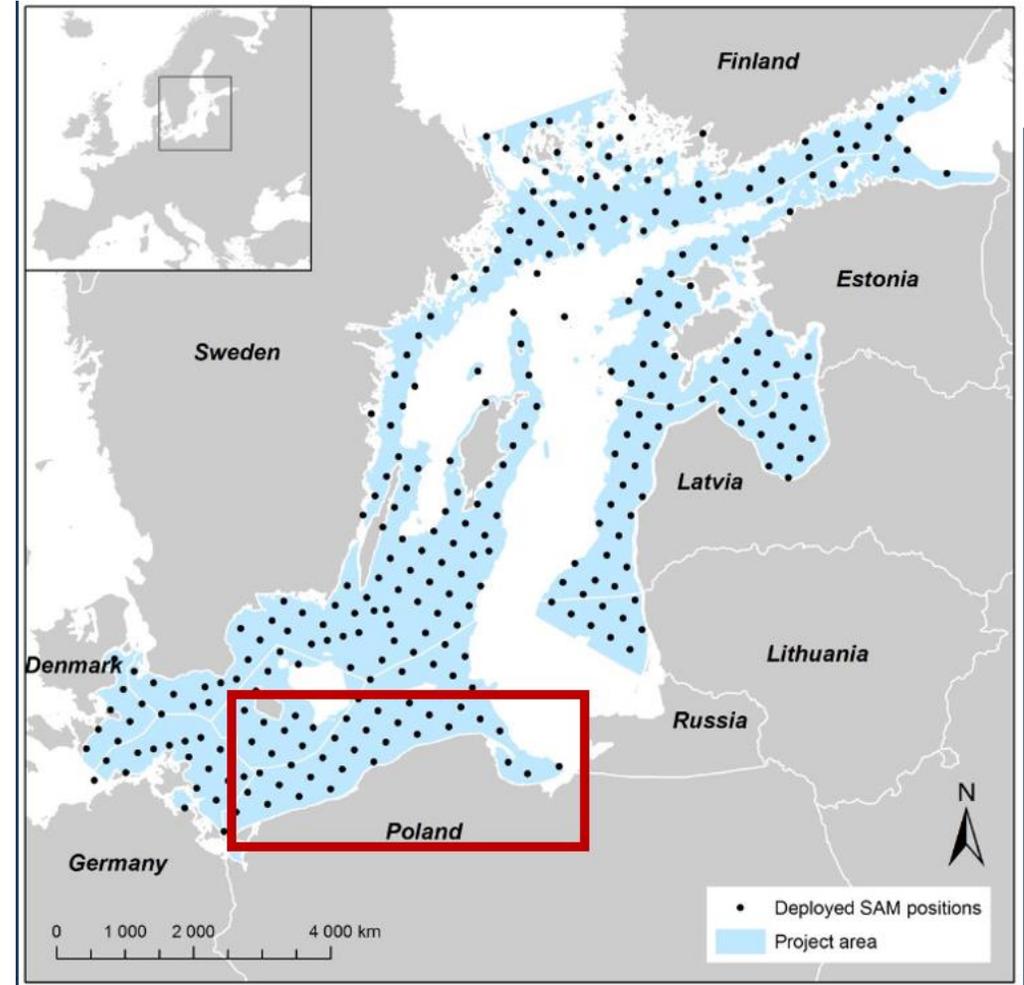
STILO BANK– Detection Positive Minutes (DPM - N)  
during the study period (March 2021 – April 2022)  
averaged over all 5 C-POD stations

Source: presentation *Spatial and temporal distribution of harbour porpoises (*Phocoena phocoena*) in the Polish Baltic Sea: Indications of an increase in abundance – State Monitoring Program IV 2021-III 2022 (preliminary data)*. Michał Malinga, HELCOM MAMA IC 1-2022.



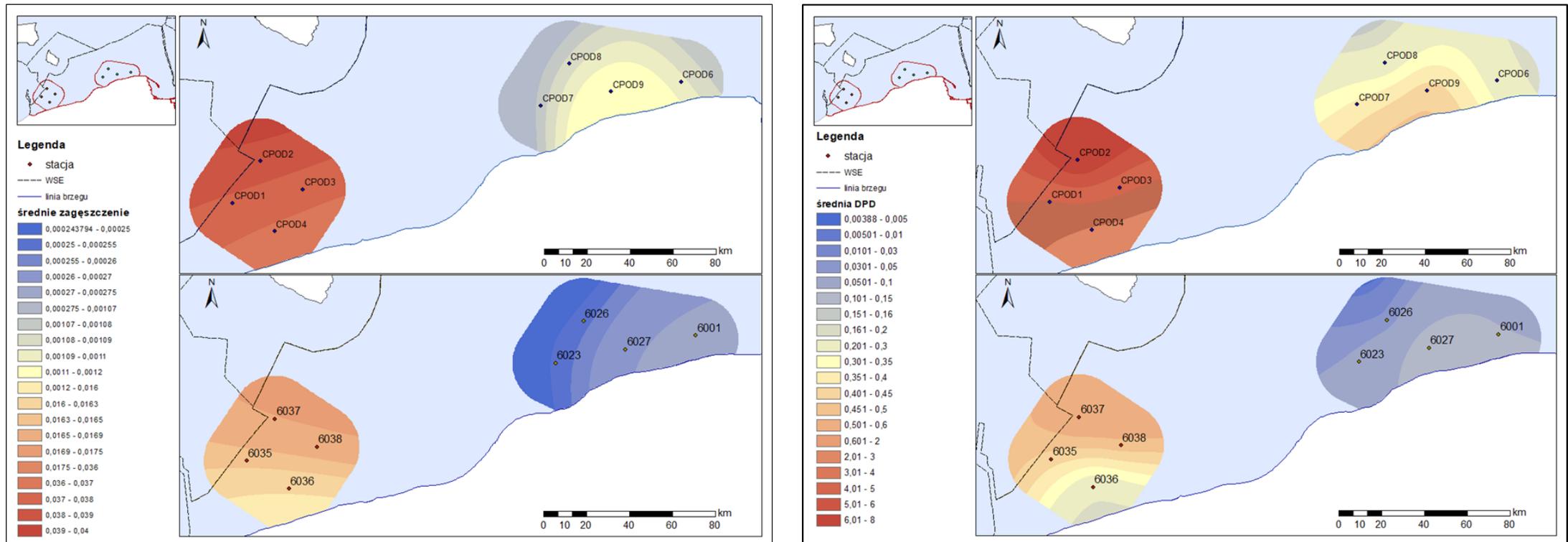
## Future plans for monitoring

- planned;
- monitoring sites location – based on data analyses from present and previous monitoring campaigns;





thank you for attention



Mean density (N/km<sup>2</sup>)

upper – SMP 2016-2018, bottom – SAMBAH, SMP 2021-2023 will be added soon

Mean DPD

any questions please send to: [sekretariatdm@gios.gov.pl](mailto:sekretariatdm@gios.gov.pl)