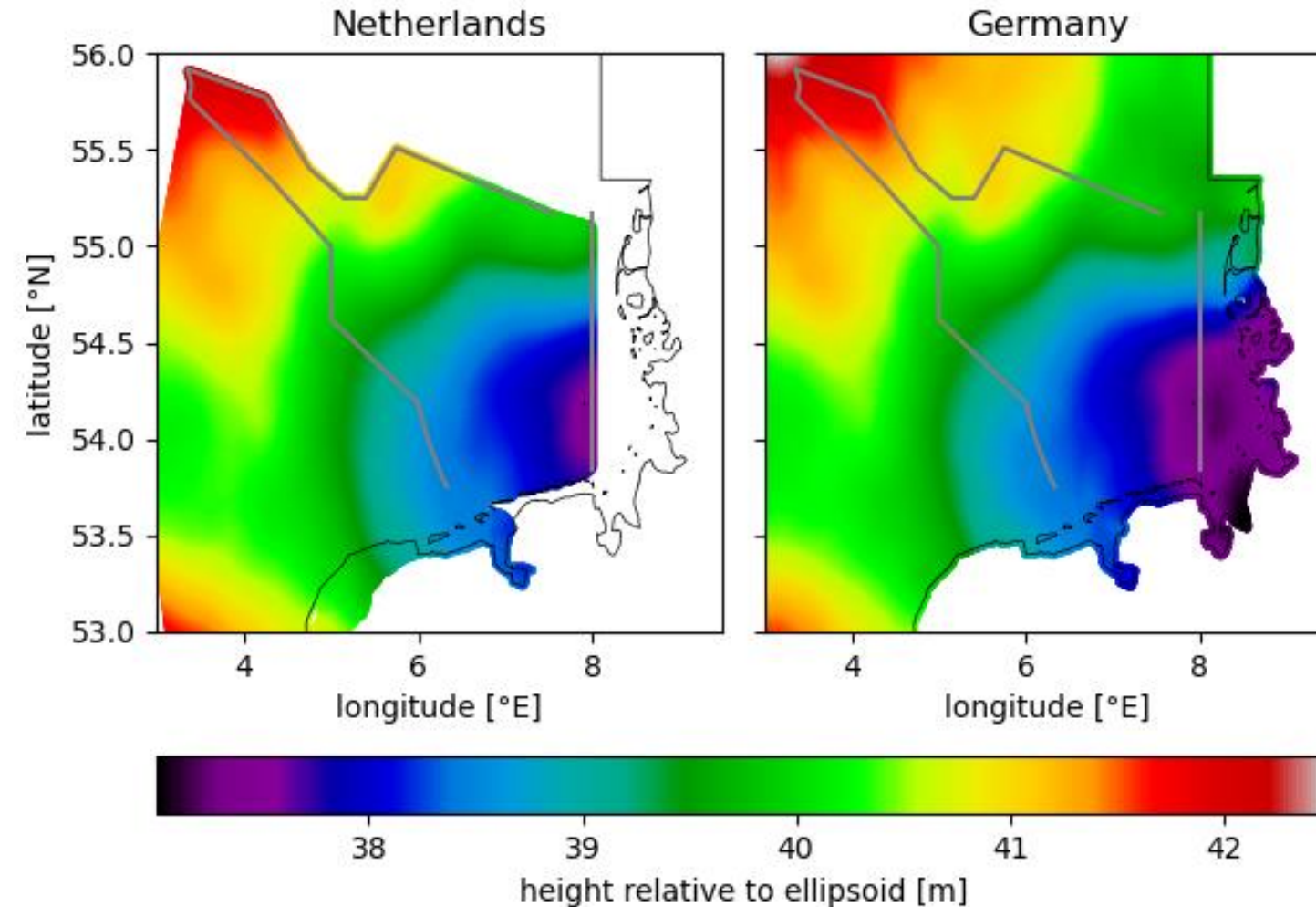


Differences of overlapping parts of German, Dutch and Danish chart datum surfaces

AP 23/02: Investigate the differences at all MS borders (**and overlapping parts of surfaces**) between national LAT reference surfaces.



NL, DE: Data



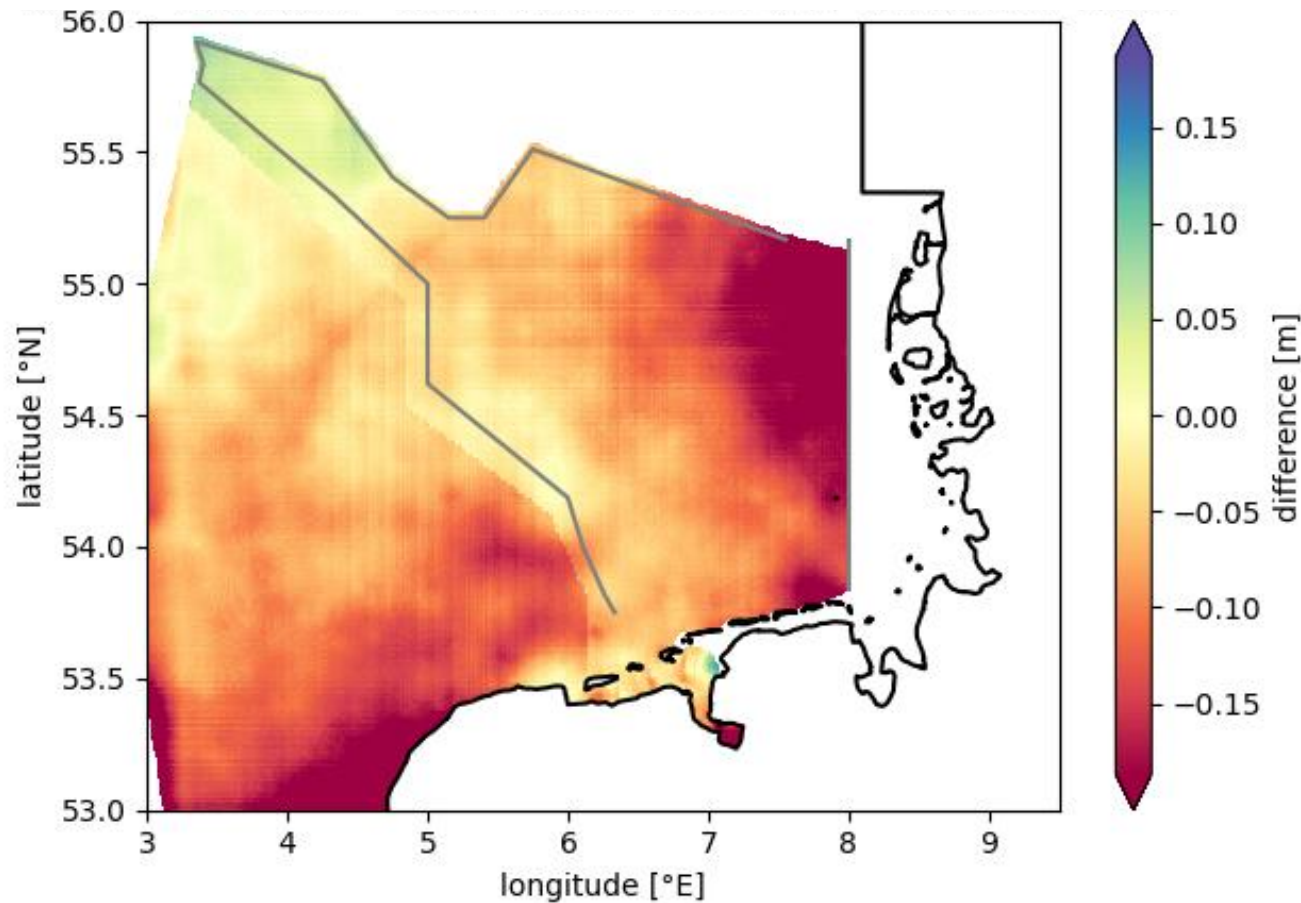
Data from Netherlands:
NLLAT2018

Data from Germany:
SKN-Fläche Nordsee 2021
(CD-surface North Sea 2021)

The original German surface is constructed relative to the vertical reference frame on land (=Normal height zero). Conversion to ellipsoidal heights using the German Combined Quasigeoid 2016 (within the German EEZ + a few kilometres beyond) and the European Gravimetric Geoid (in foreign waters).

NL, DE: Differences of surfaces

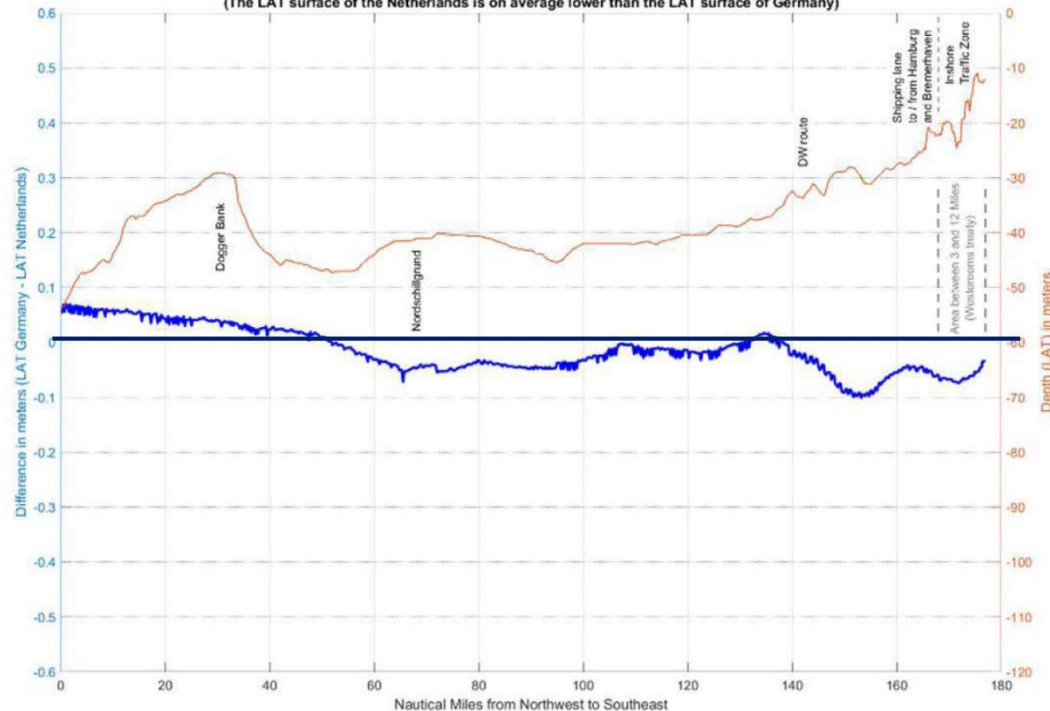
Germany – Netherlands (next grid point)



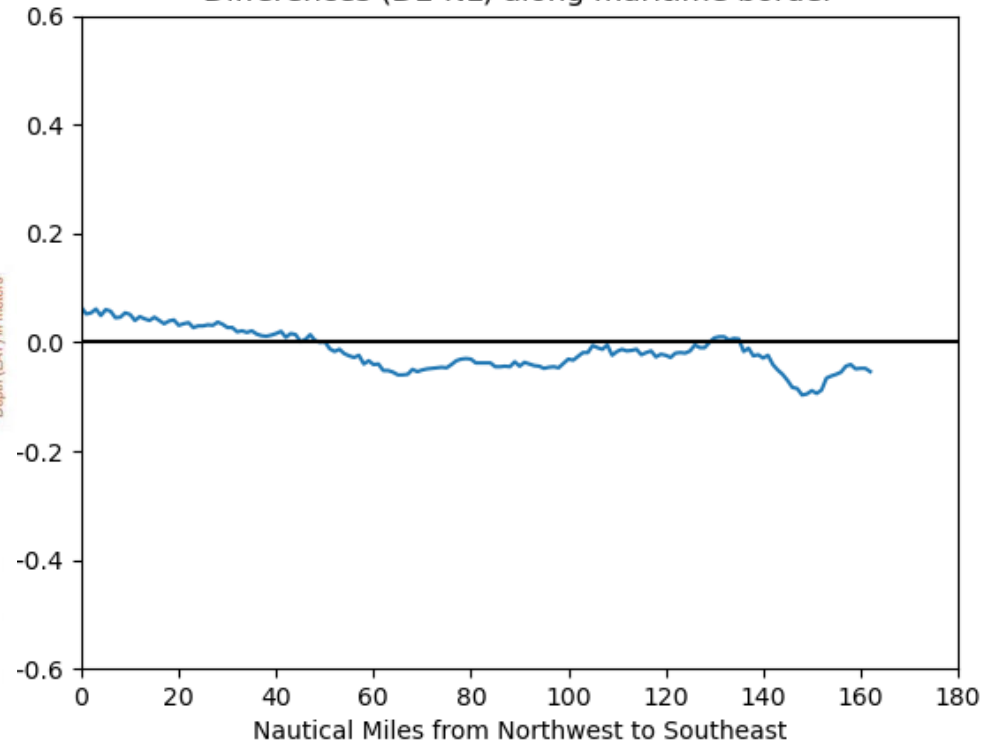
mean:	- 0.08 m
standard dev.:	0.06 m
minimum:	- 0.32 m
maximum:	0.13 m

NL, DE: Differences along maritime border

Difference in LAT-ellipsoid along the maritime boundary between Germany and the Netherlands
(The LAT surface of the Netherlands is on average lower than the LAT surface of Germany)

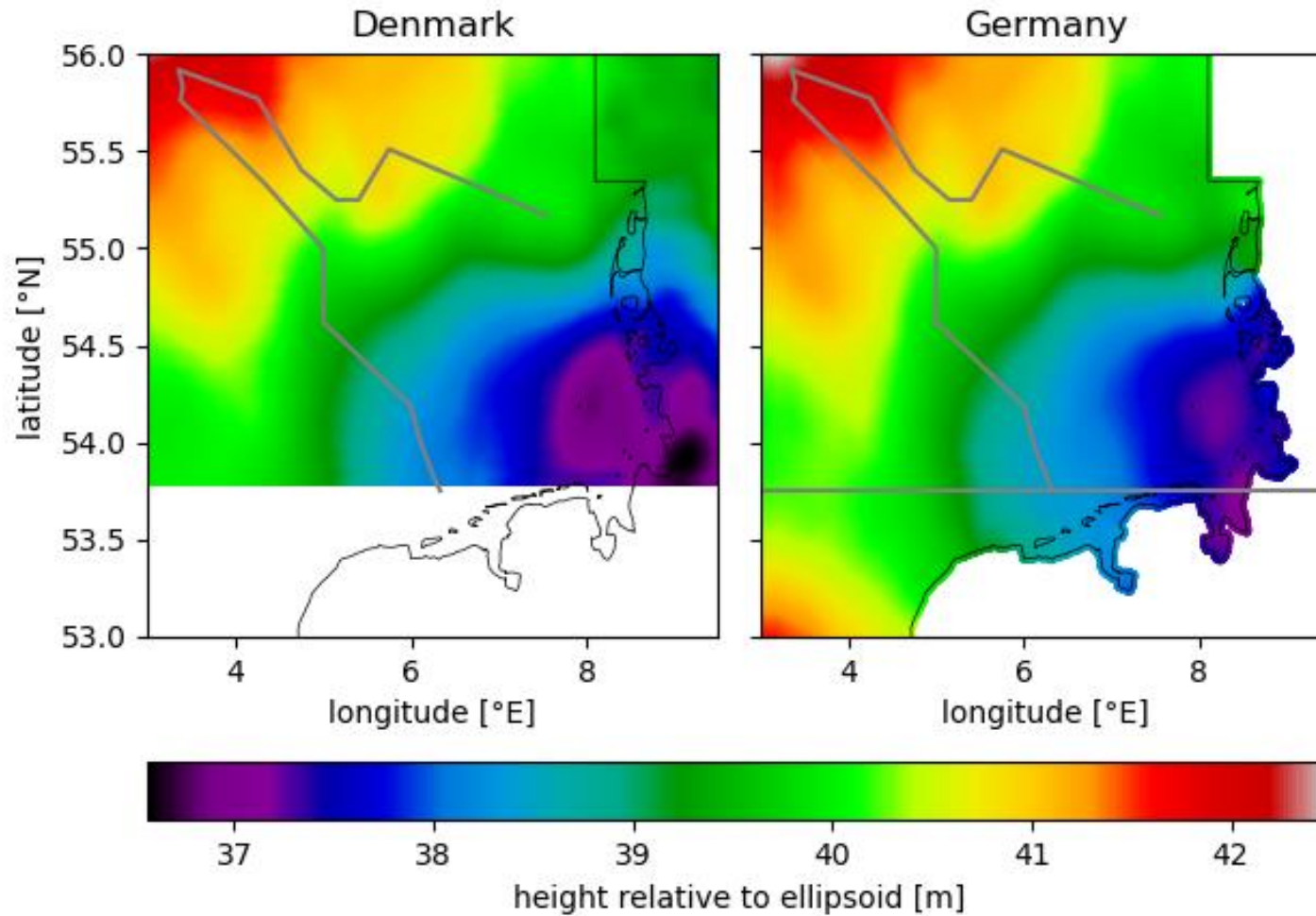


Differences (DE-NL) along maritime border



left figure from the report by Thijs Ligteringen and Ronald Kuilman

DK, DE: Data

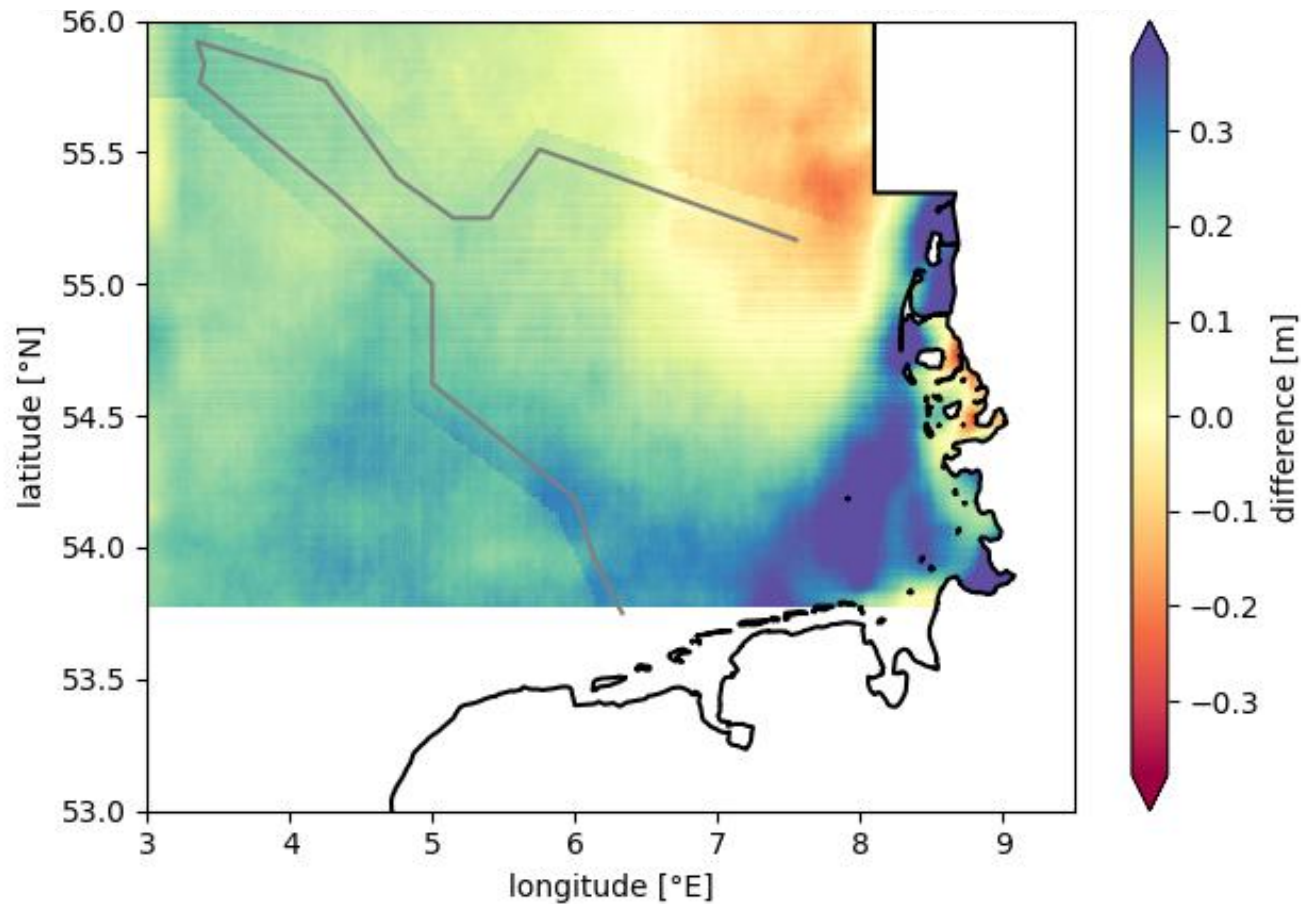


Data from Denmark:
DTU21LAT_DK

Data from Germany:
SKN-Fläche Nordsee 2021
(CD-surface North Sea 2021)

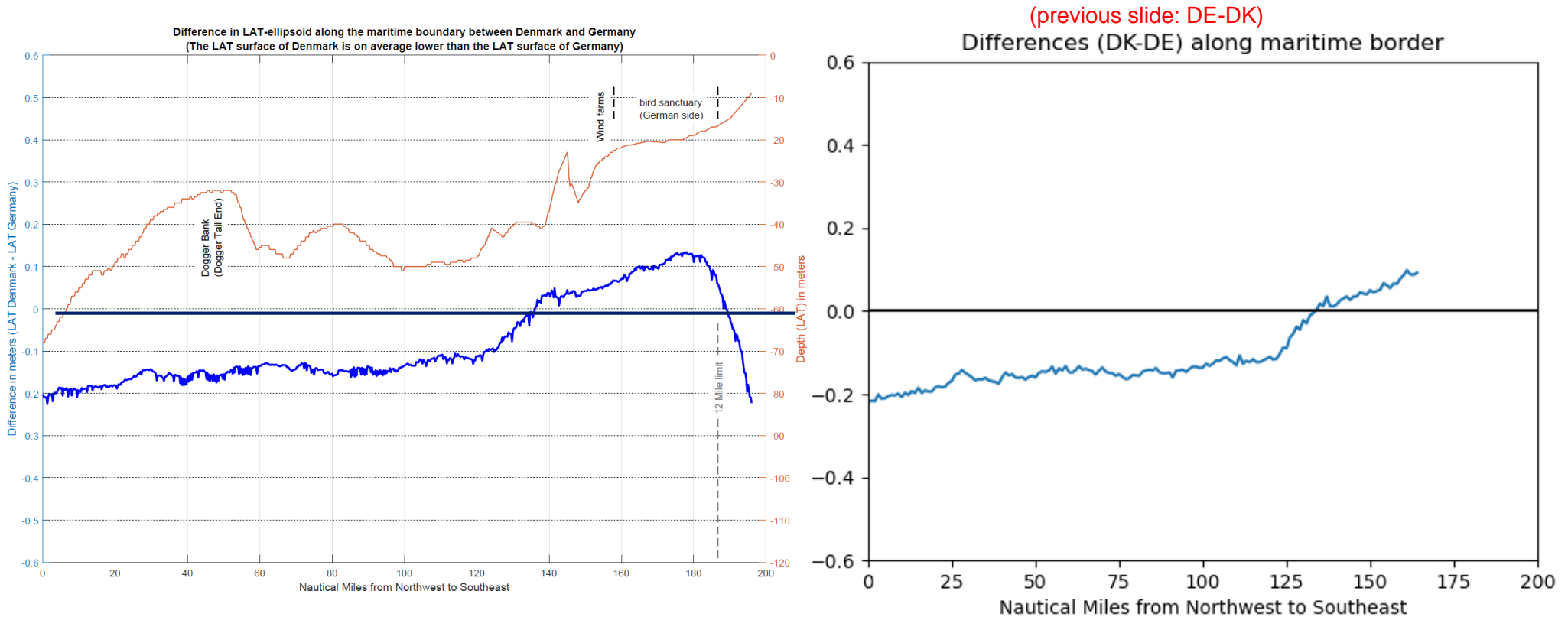
DK, DE: Differences of surfaces

Germany – Denmark (next grid point)



mean:	0.15 m
standard dev.:	0.13 m
minimum:	- 0.31 m
maximum:	0.88 m

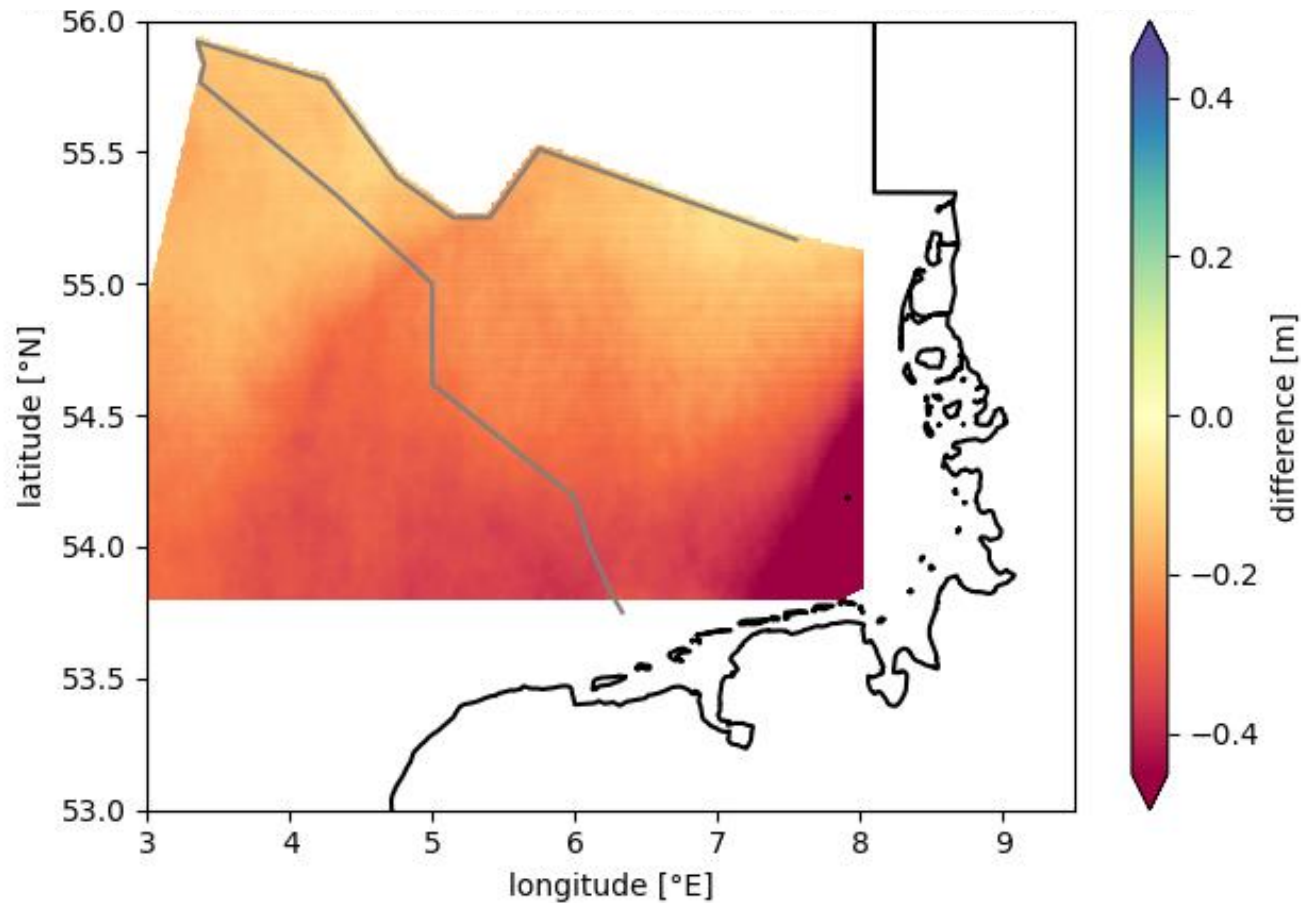
DK, DE: Differences along maritime border



left figure from the report by Thijs Ligteringen and Ronald Kuilman

DK, NL: Differences of surfaces

Denmark - Netherlands (next grid point)



mean:	- 0.25 m
standard dev.:	0.09 m
minimum:	- 0.62 m
maximum:	- 0.06 m