

Validation of WAM run against BSH bouys

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Validation of WWM and WAM run(s) for period 2018-03-01 - 2018-04-30T.

WWM scenarios are:

WWM3_dt_300sSCHISM vegetation runs 2017/2018 WWM dt 240s,

WAM scenarios are:

NEMO_WAM_SNScouple NEMO_RC42 WAM SNS WD,

Variable Hs

Overview

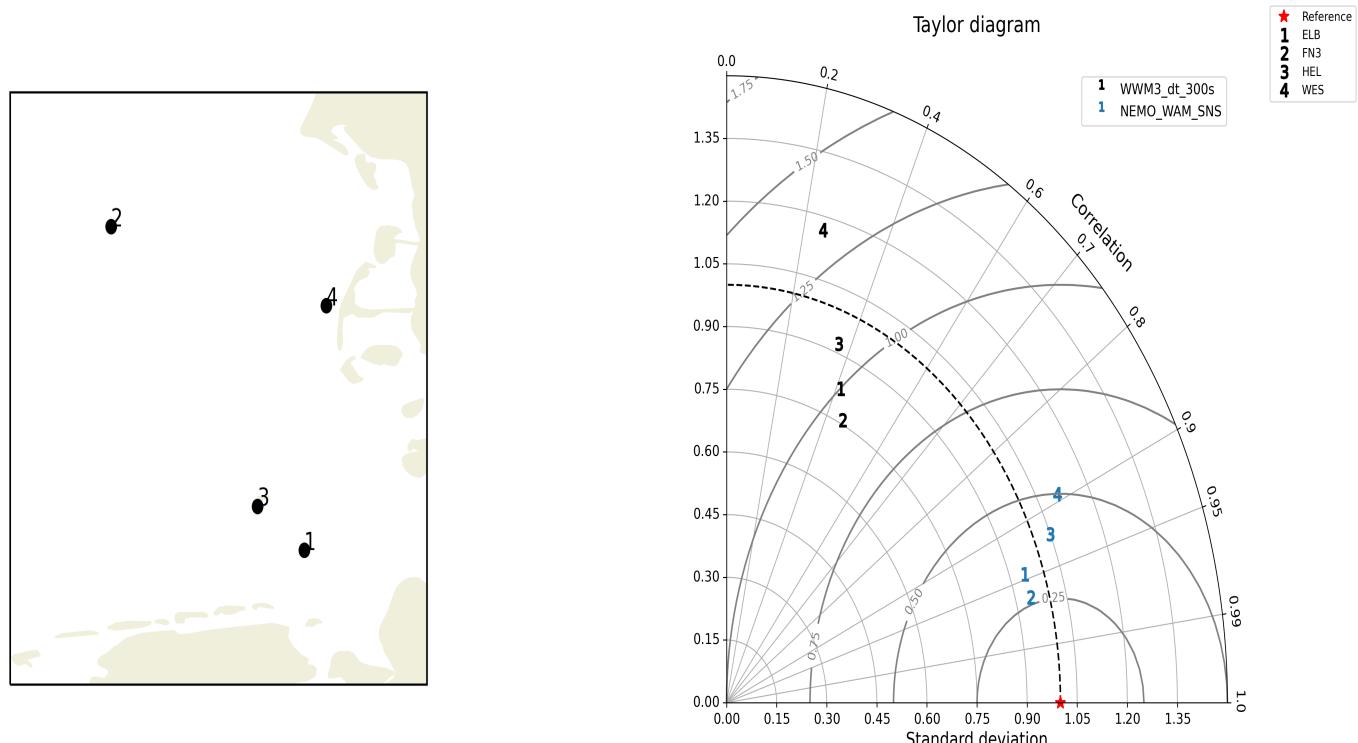


Fig 1: taylor diagram (all runs) of significant wave height performance against BSH buoys for period 2018-03-01T01:00:00.000000000 - 2018-04-30T22:00:00.000000000 -All samples.

The station averaged values (each station weighted equally independent of nr of observations) correspond to simulation: bias/rmse/correlation

NEMO_WAM_SNS: 0.019589/0.203481/0.931271,

WWM3_dt_300s: 0.083062/0.551295/0.369940,
WWM3_dt_300s: 0.083062/0.551295/0.369940,

time series

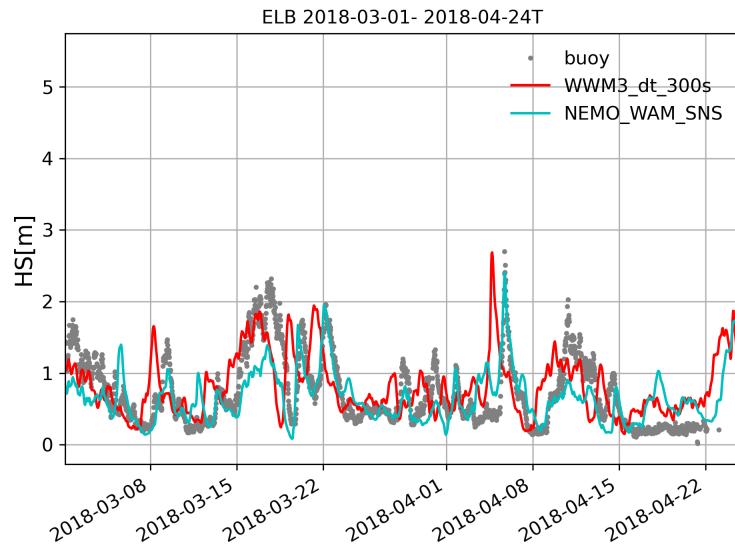


Fig 2: Time Series of Hs at station Elbe.

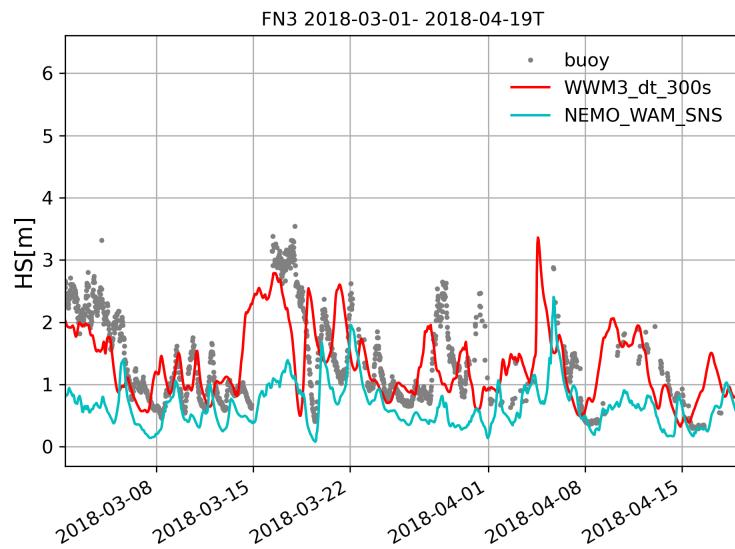


Fig 3: Time Series of Hs at station Fino-3.

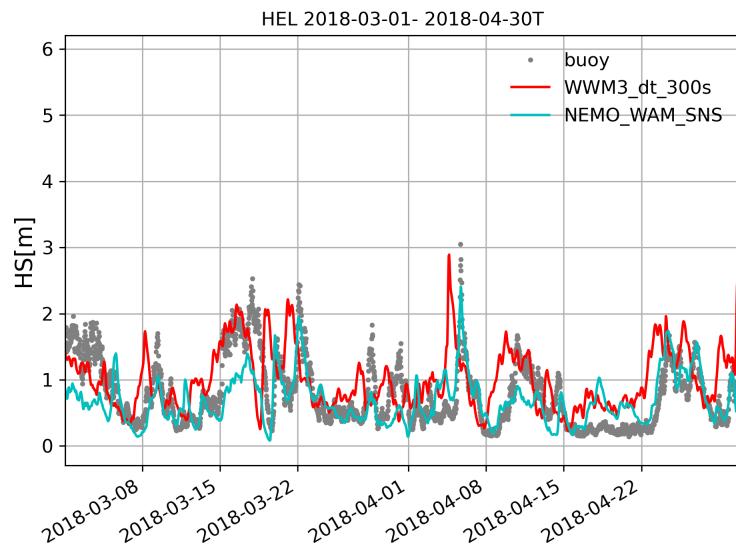


Fig 4: Time Series of Hs at station Helgoland.

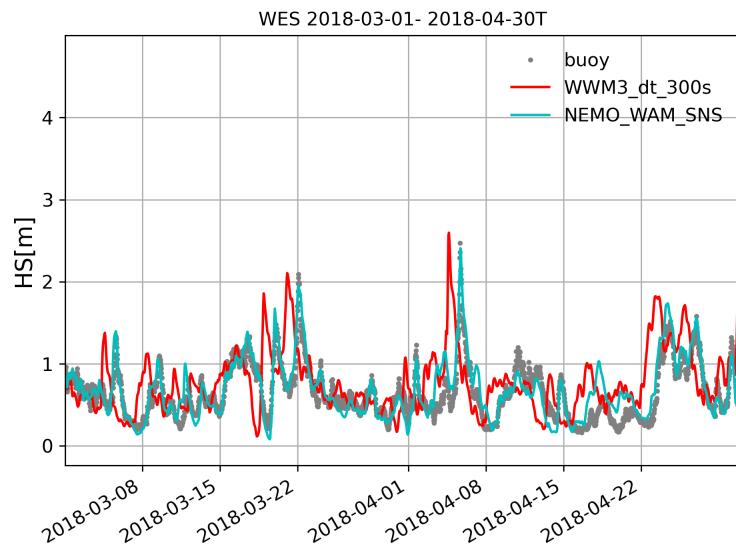
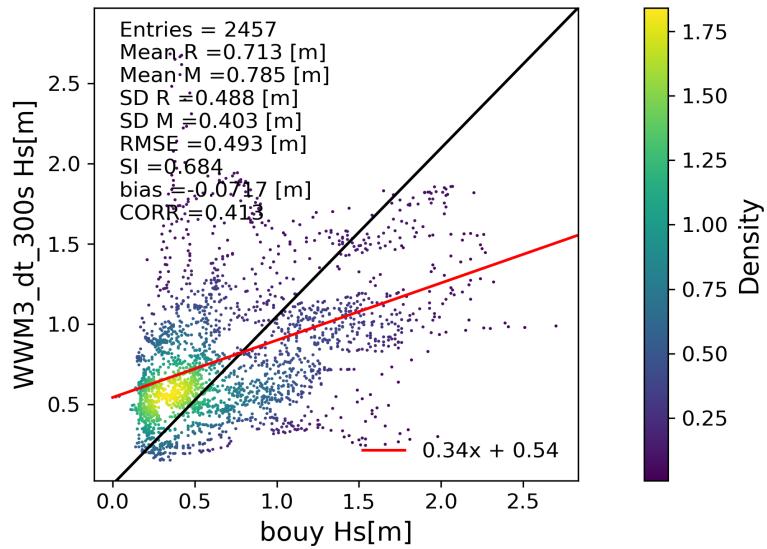


Fig 5: Time Series of Hs at station Westerland.

scatter plots

ELB 2018-03-01- 2018-04-24T



ELB 2018-03-01- 2018-04-24T

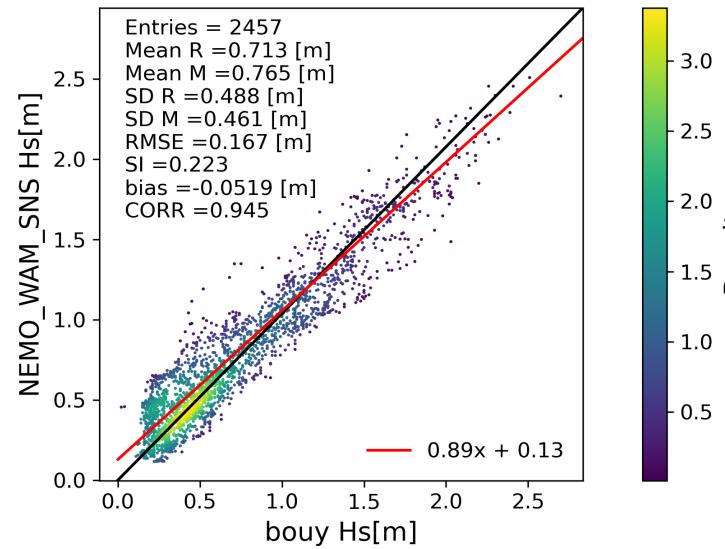
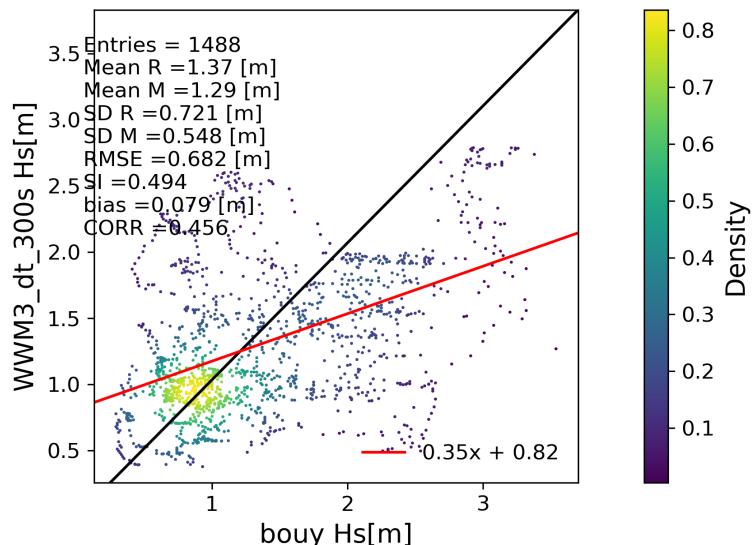


Fig 6: Scatter plot of Hs from top left to bottom right (counting along rows) simulated by WWM3_dt_300s NEMO_WAM_SNS against BSH buoys at station Elbe.

FN3 2018-03-01- 2018-04-19T



FN3 2018-03-01- 2018-04-19T

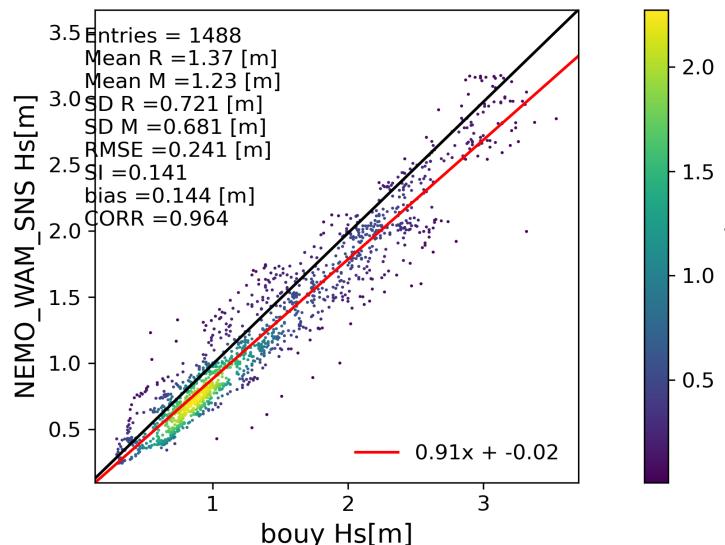
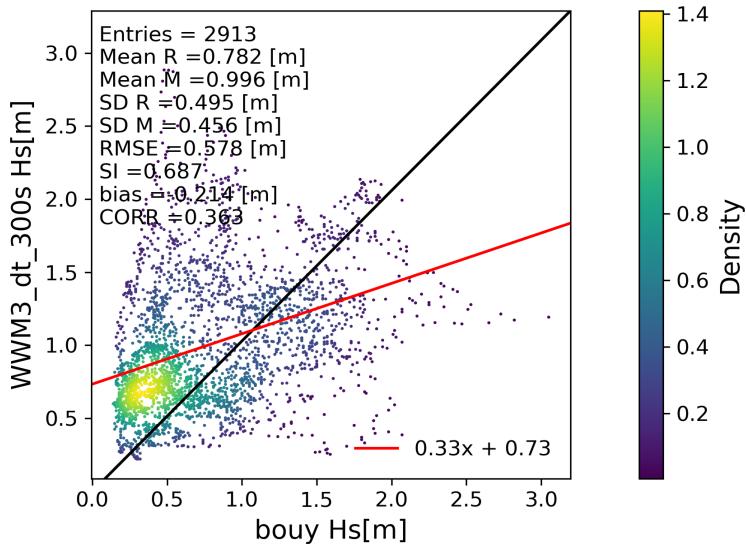


Fig 7: Scatter plot of Hs from top left to bottom right (counting along rows) simulated by WWM3_dt_300s NEMO_WAM_SNS against BSH buoys at station Fino-3.

HEL 2018-03-01- 2018-04-30T



HEL 2018-03-01- 2018-04-30T

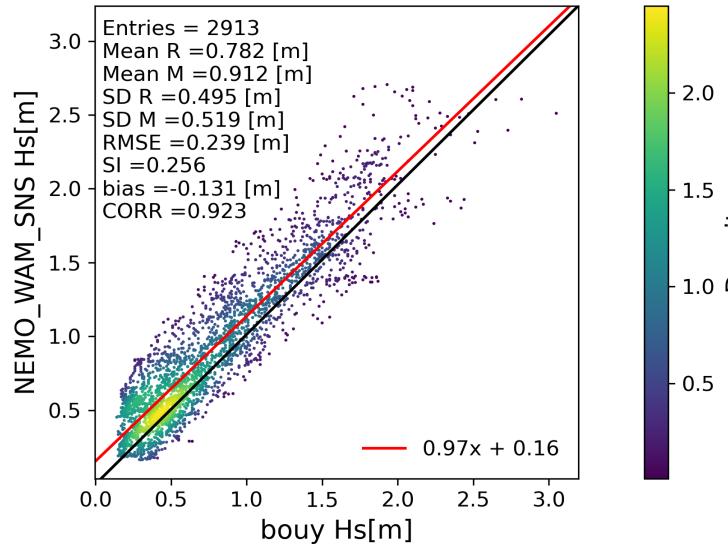
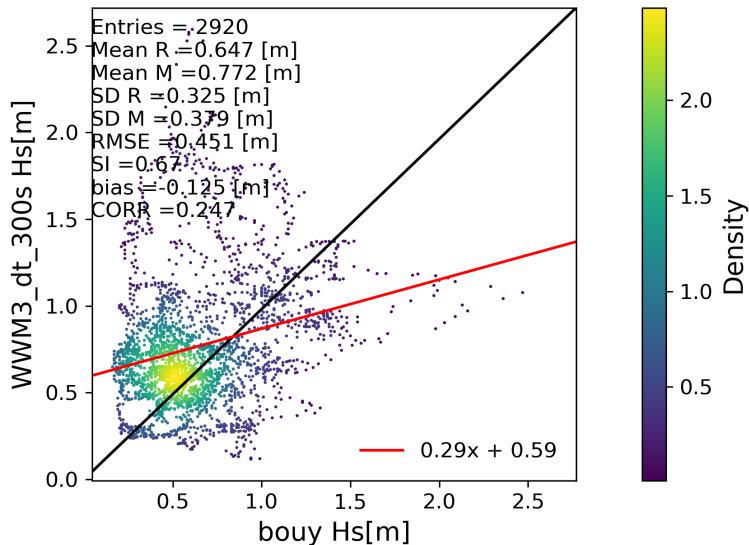


Fig 8: Scatter plot of Hs from top left to bottom right (counting along rows) simulated by WWM3_dt_300s NEMO_WAM_SNS against BSH buoys at station Helgoland.

WES 2018-03-01- 2018-04-30T



WES 2018-03-01- 2018-04-30T

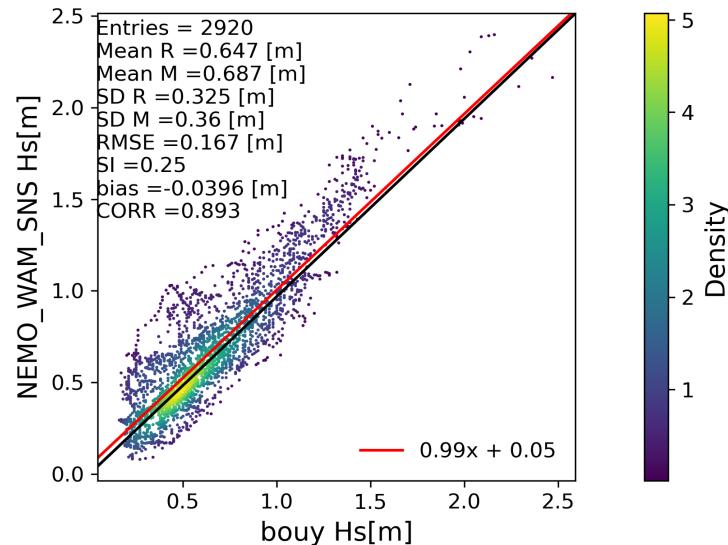


Fig 9: Scatter plot of Hs from top left to bottom right (counting along rows) simulated by WWM3_dt_300s NEMO_WAM_SNS against BSH buoys at station Westerland.