

Title: CONWEST-DYCO in Phase 1 CONTinuum of Water from ESTuaries to coastal DYnamics
CONWEST-DYCO2 ext. in Phase 2: CONtinuum of Water from ESTuaries to coastal DYnamics

Monitoring the Elbe Estuary and coastal zone with SWOT and nadir altimeters

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1. Is SWOT meeting requirements, pre-launch expectations?

We find WSE accuracy of 28 cm in the Elbe tidal river

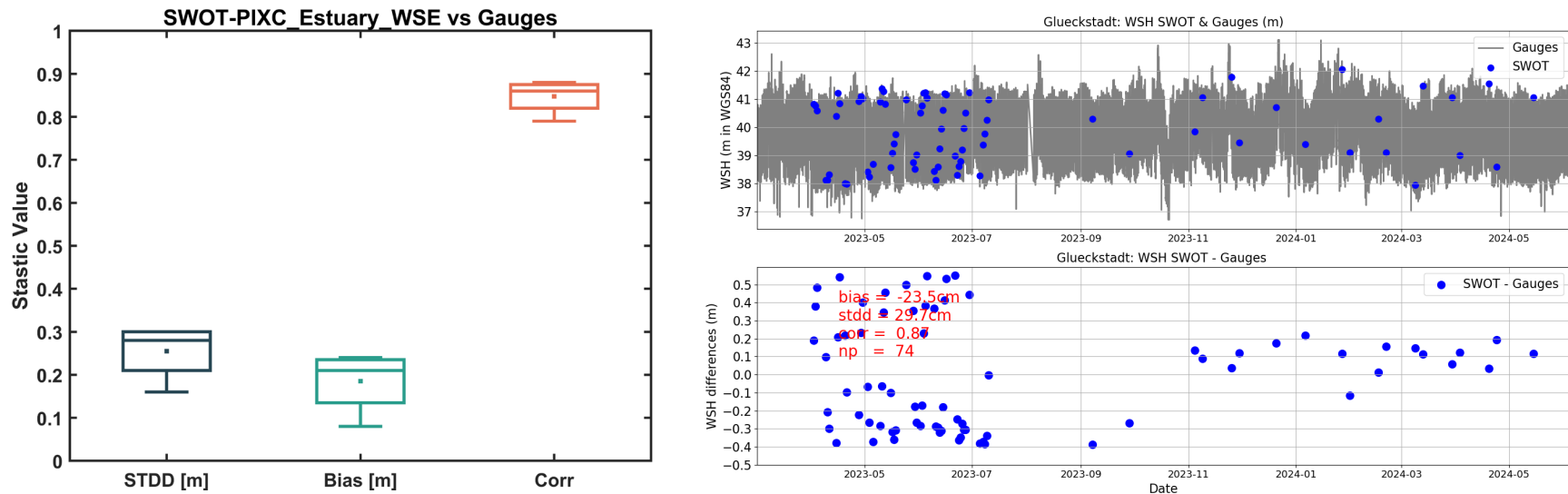


Fig. 1. Median of STDD at 4 stations in Elbe tidal river, WSE time-series in Zellenspieker upstream to Hamburg (right)

2. New results being revealed

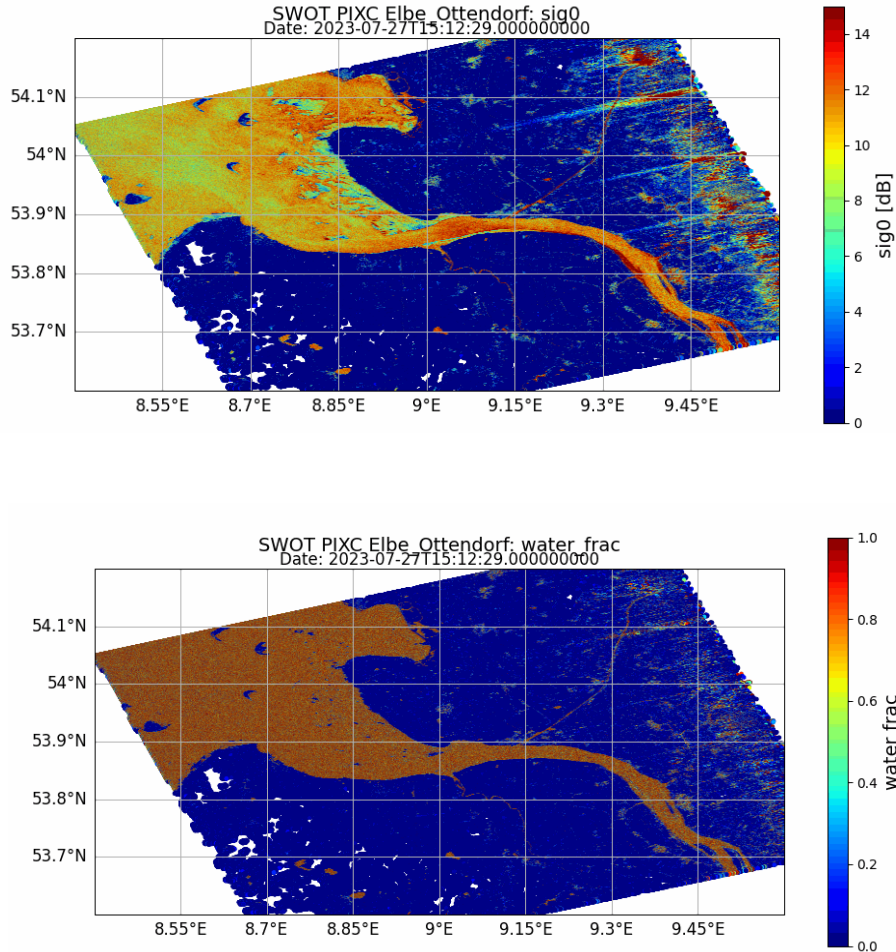


Fig. 2. sigm0 and water classification at Elbe river mouth

3. Challenges remaining: steps forward

separation of tide and discharge
accuracy of WSE over 0.025 degree radius
Look at accuracy at higher resolution
Lower accuracy in calibration phase

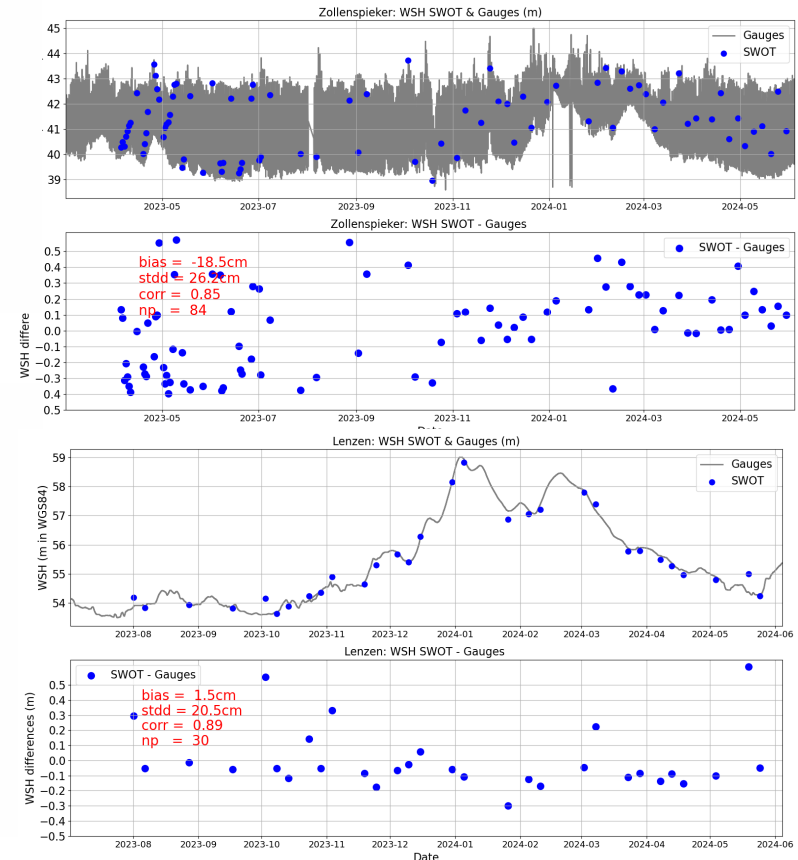


Fig. 3 WSE at Zollenspiecker upstream to Hamburg (top) and in Elbe not-tidal river (low)

