

Assuring safe port navigation by assimilating from data sources with different spatial and temporal scales

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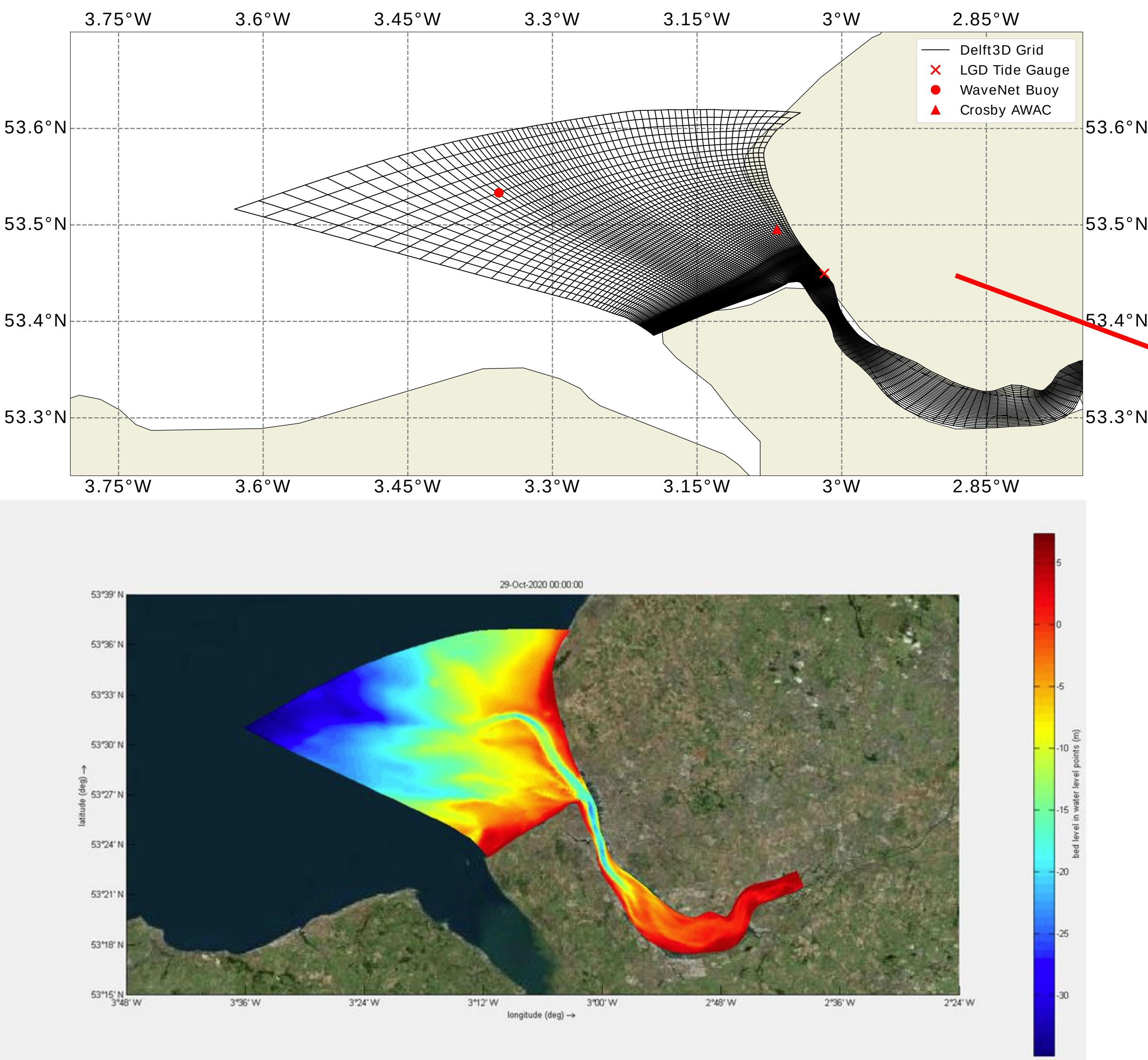


1. Introduction

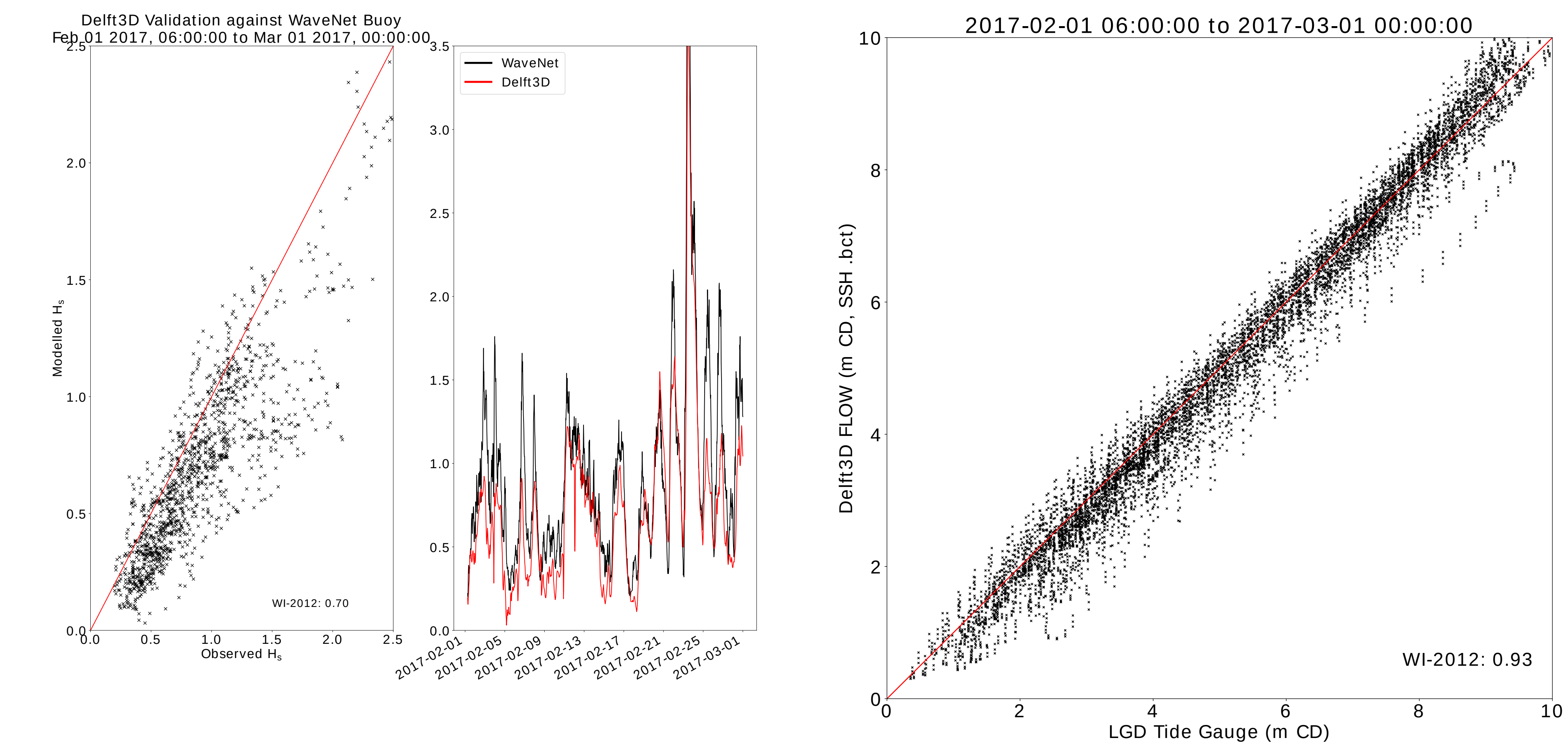
Vessel groundings still occur despite modern technology

We aim to autonomously detect patterns in near- and far- field wave climate that are attributable to changes in sub-tidal and intertidal bathymetry

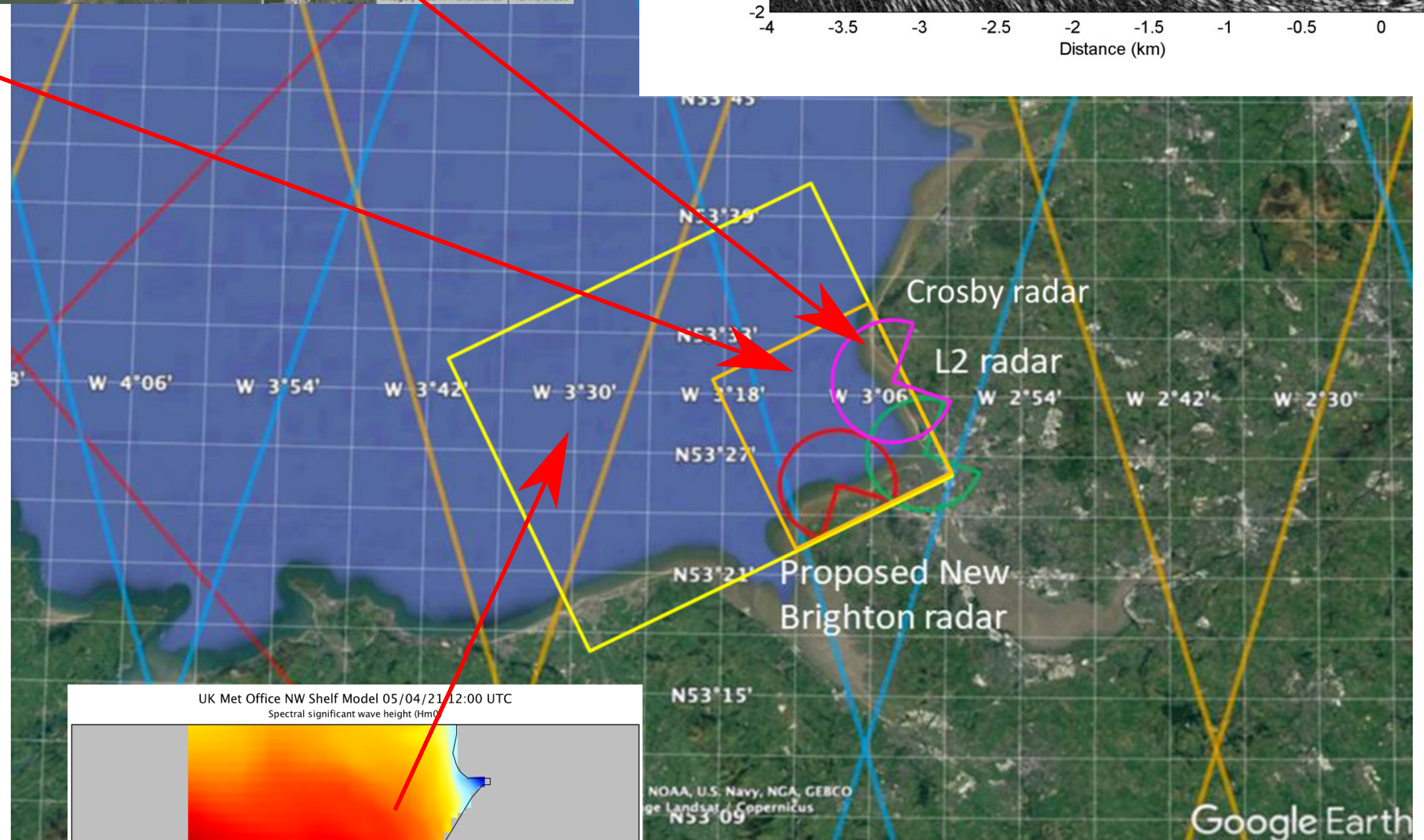
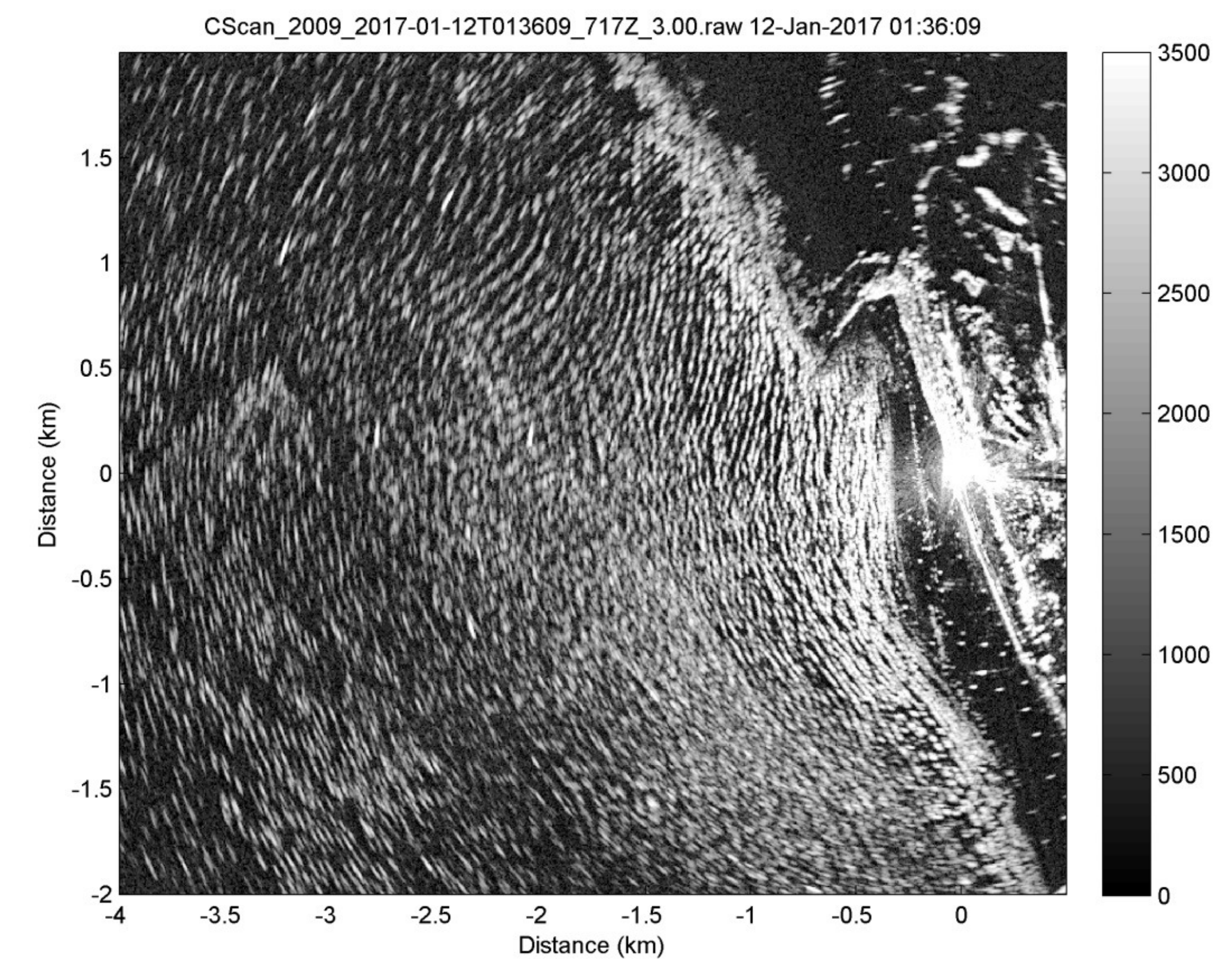
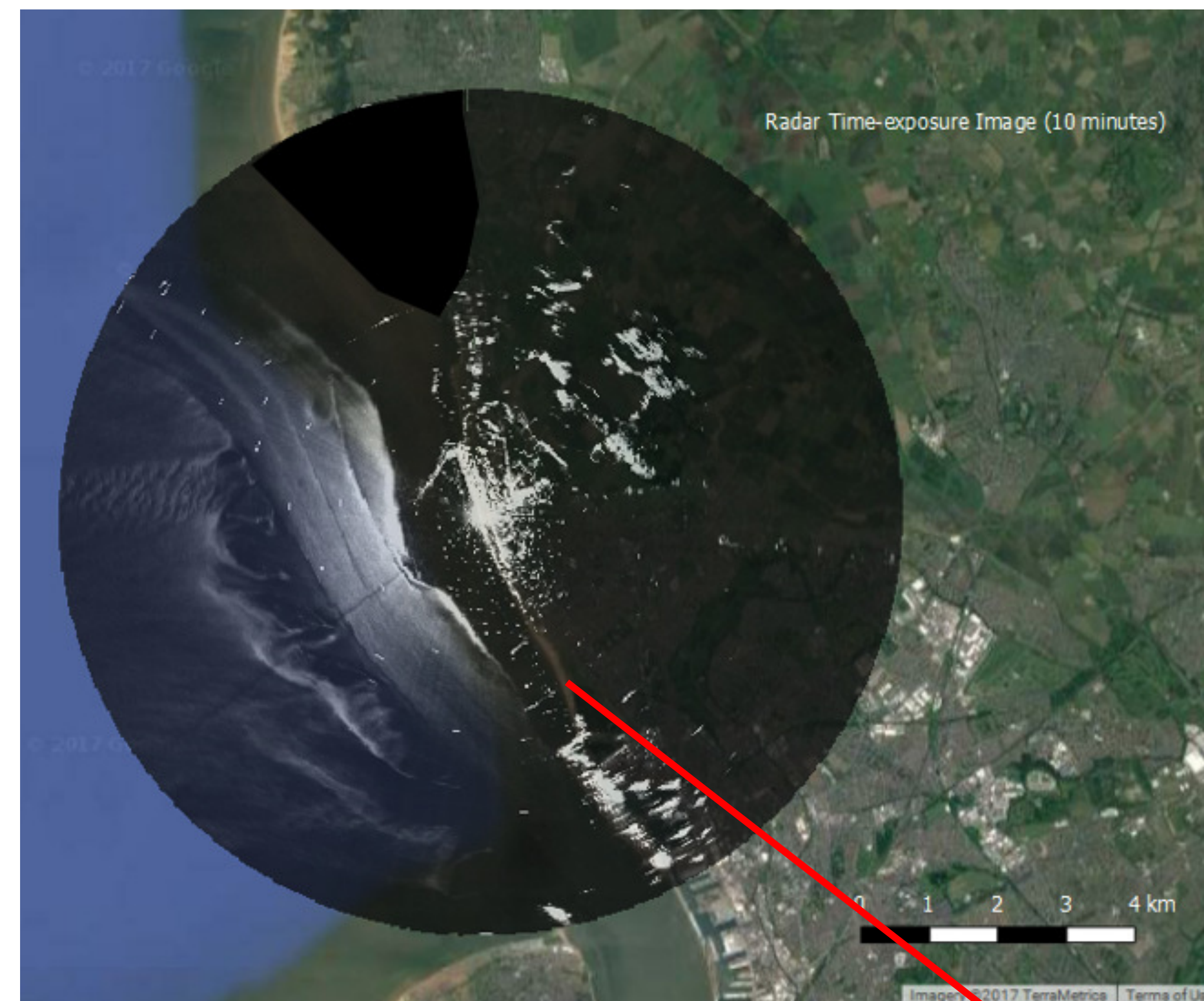
2. Delft3D: Grid and Bathymetry for the Port of Liverpool



3. Delft3D: WAVE and FLOW Validation



4. Radar



5. Take Home Messages

Cheap, near real-time data nexus for predicting bathymetry
Avoid unnecessary, costly surveys and maintenance