



One year eco-morphodynamic monitoring:

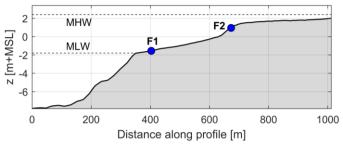
Focussing on our one-month EMERGO frame measurements in the Western Scheldt:





What is the impact of an individual storm on an intertidal area?

1-month frame measurements: Nov/dec 2016







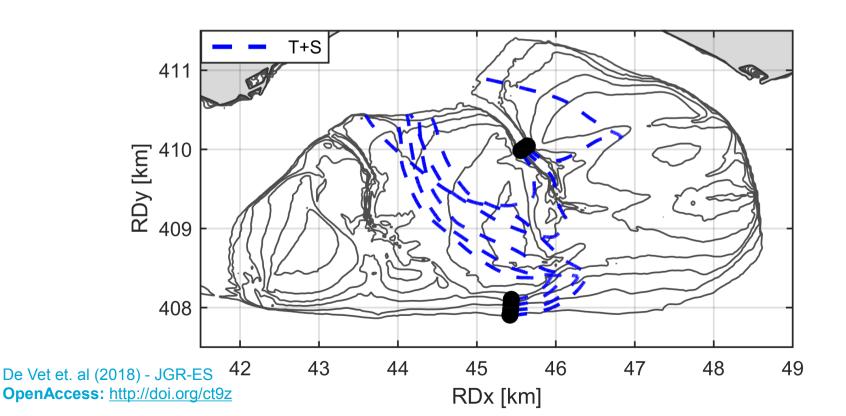
Storm events important for morphodynamics intertidal areas.

Not just waves, but also wind-driven flow is crucial.



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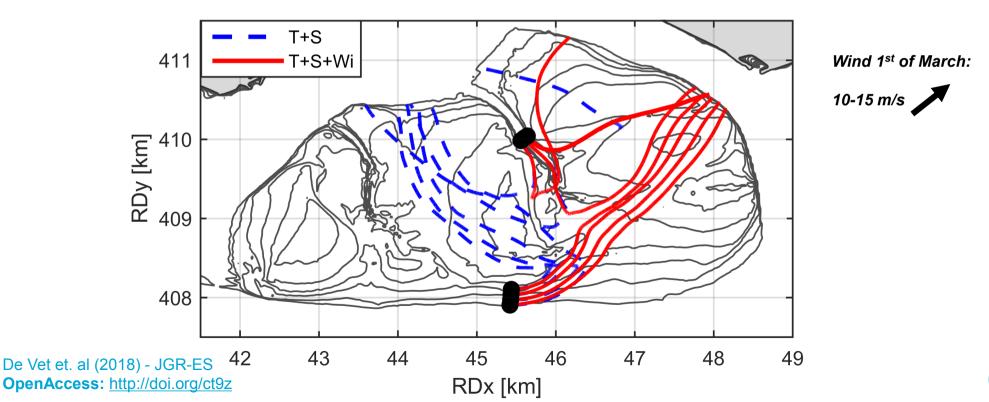
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Momentum equations: wind-driven flow important on intertidal shoals (and fringing flats in alongshore direction) if:

$$U_{\it wind} \gtrapprox$$

 \mathcal{W}



Concluding remarks

- Wind dominates the flow on intertidal areas with small tidal flow velocities
- 2. Even under strong tidal velocities, there are moments in which wind effects can dominate
- 3. Even if ST recovery is fast and LT evolution is smooth, storms affect the LT evolution.



