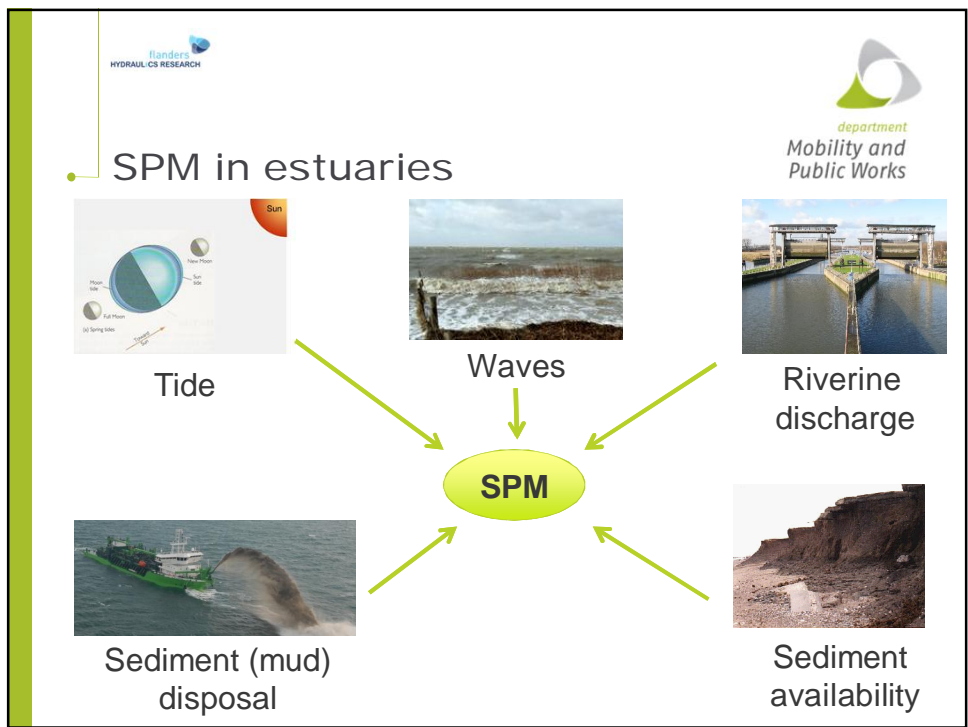


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On the short- and long-term SPM variations in the Scheldt estuary

W. Vandenbruwaene, J. Vanlede, Y. Plancke
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IAHR

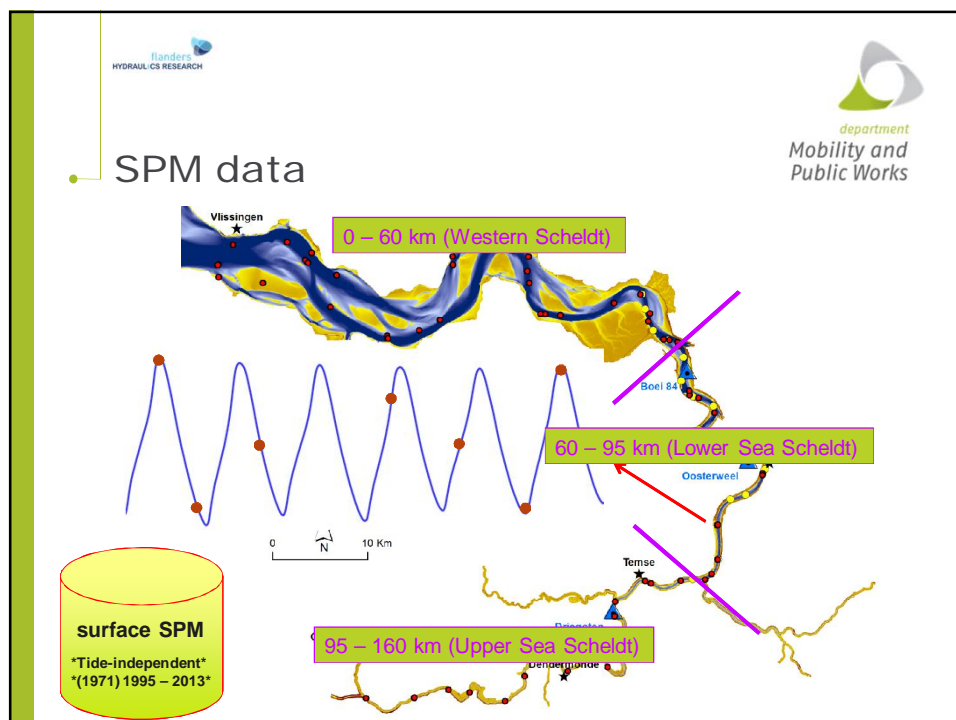


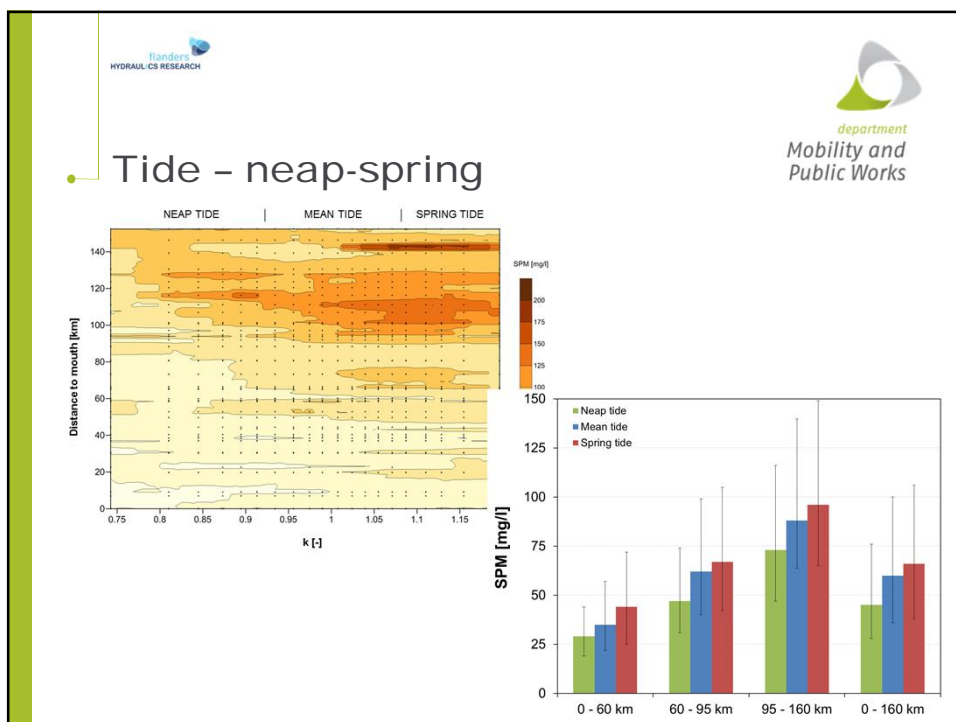
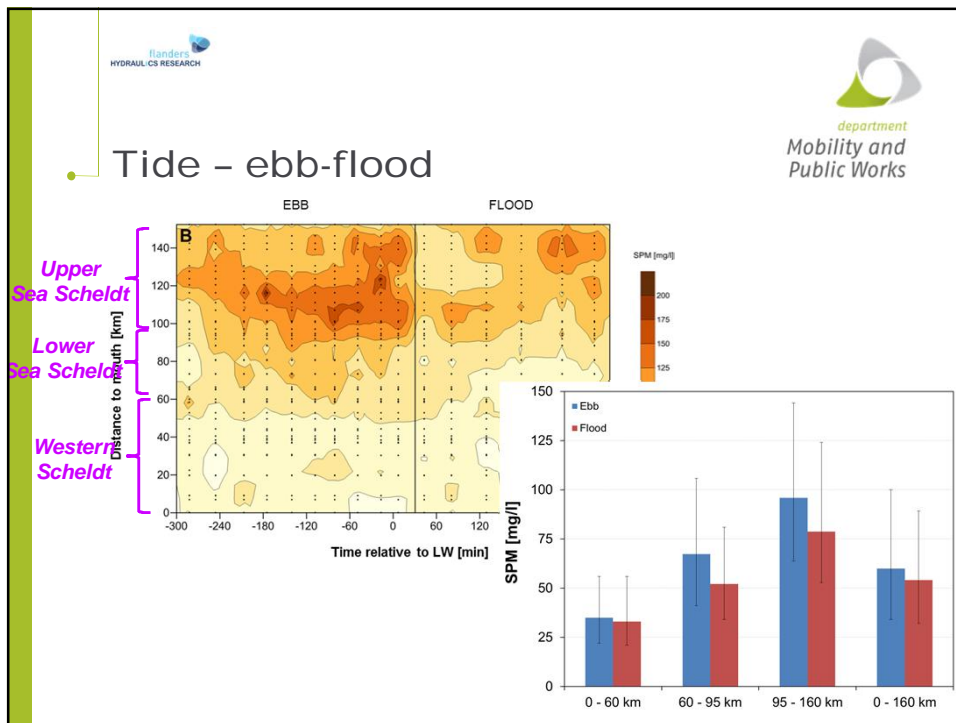
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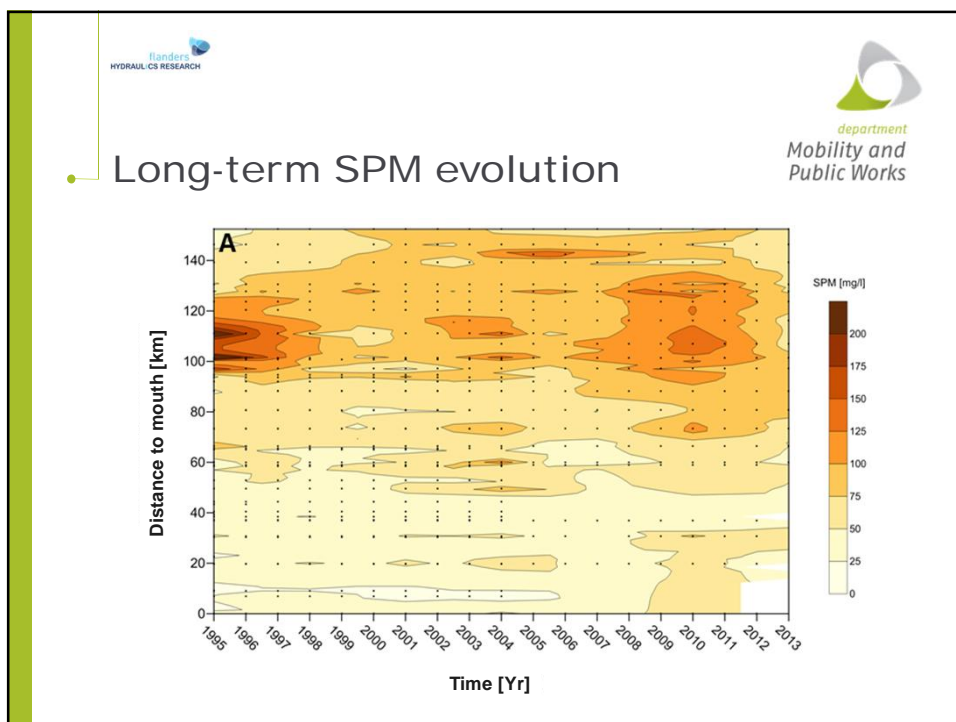
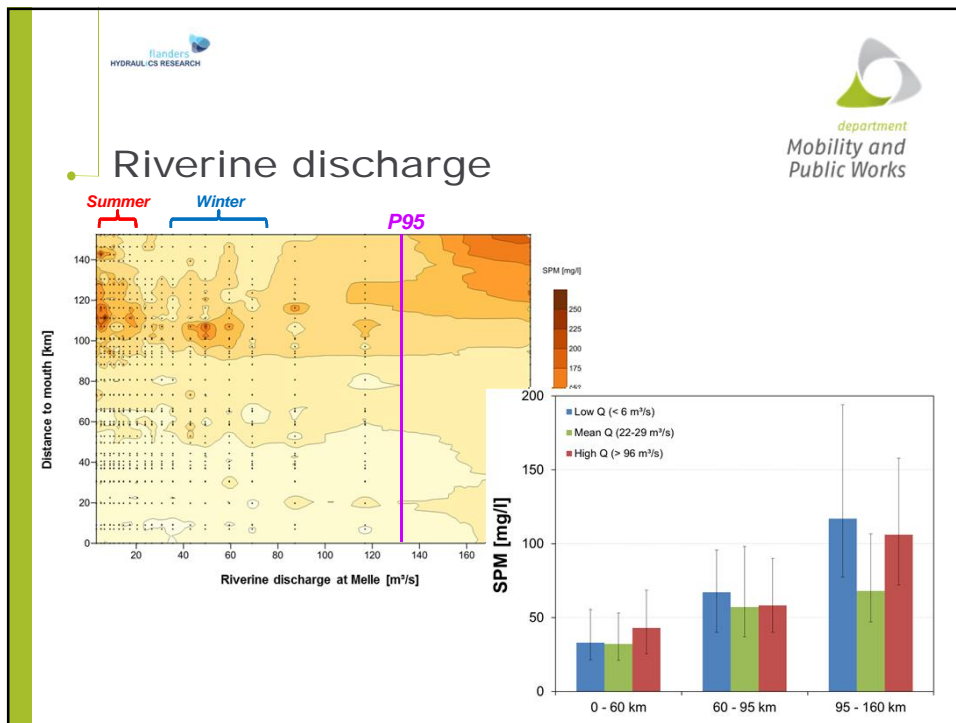
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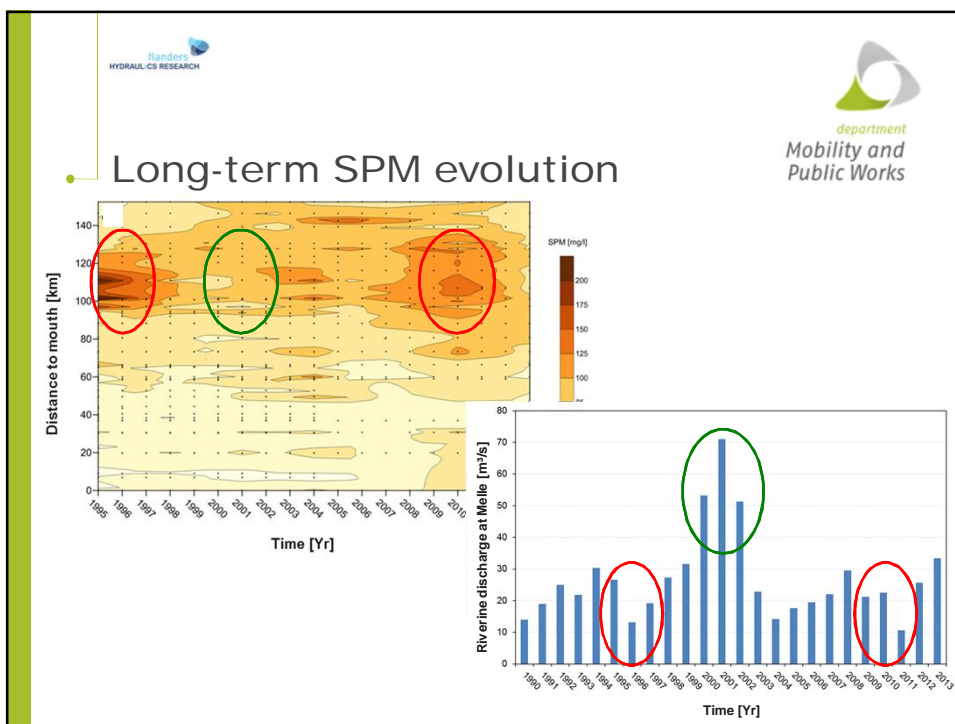
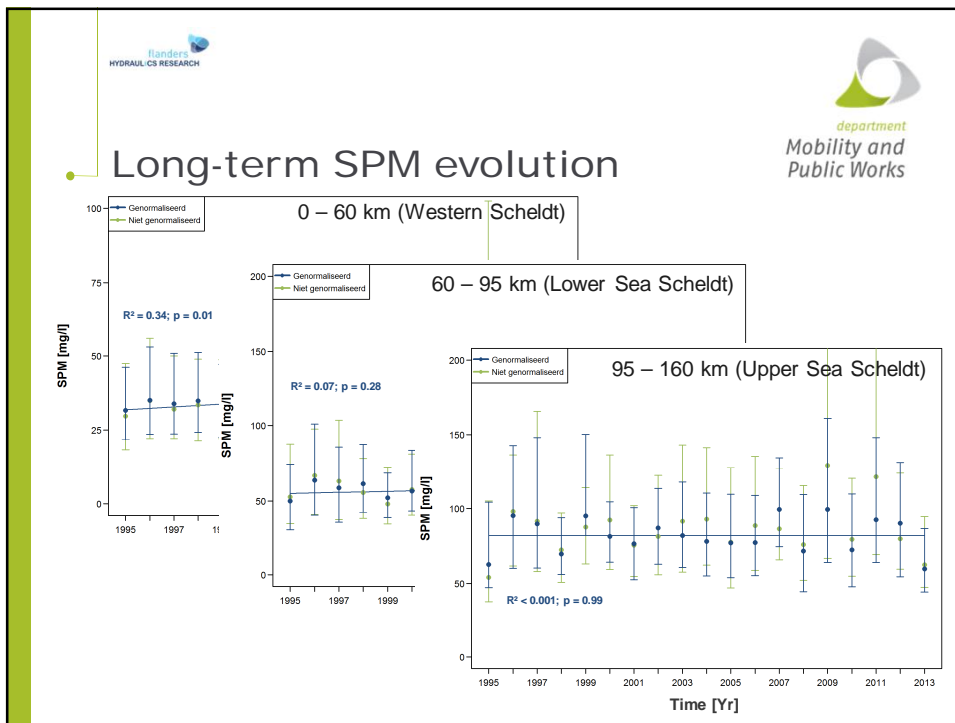
Objectives

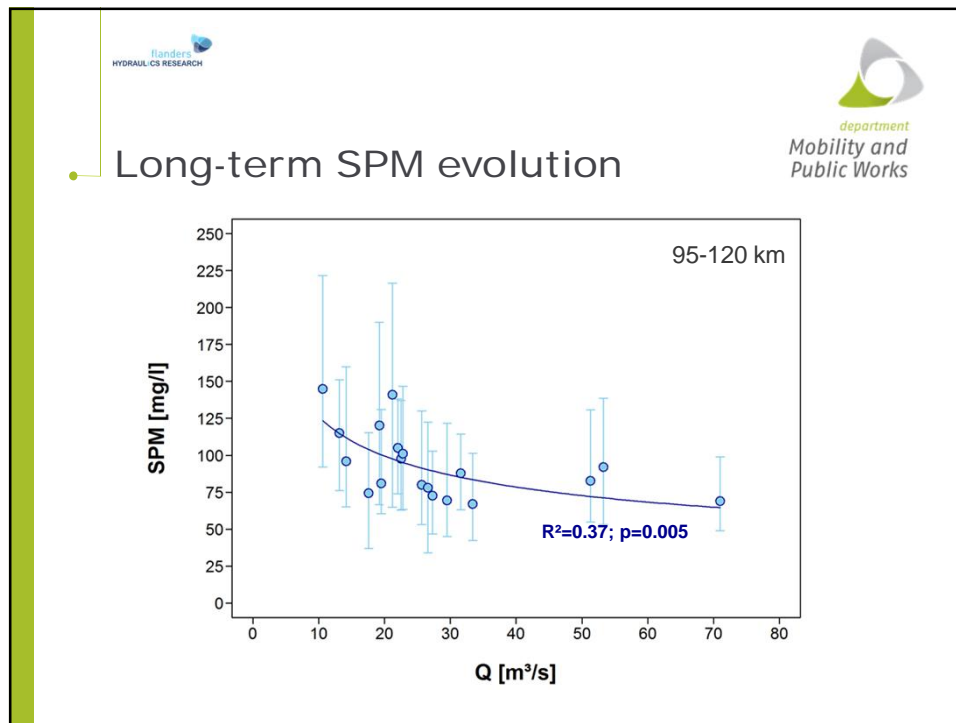
- Study the effect of **tide** **river flow** seasons and mud disposal on the SPM signal in the Scheldt estuary
- Study the long-term trends in SPM











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- Conclusions
- **Tide**
 - Higher SPM values during ebb in Sea Scheldt (60-160 km) (factor 1.2-1.3)
 - Increase in SPM from neap (factor 0.8-0.9) to spring (factor 1.1-1.3)
 - **Riverine discharge**
 - Low discharges (daily – seasonal – yearly) lead to higher SPM values in upstream part of the estuary (Upper Sea Scheldt, 95-160 km)
 - ETM shifts upstream at low discharges and is more extensive
 - **Long-term trends**
 - No significant increase in SPM over the period 1995-2013 (for Sea Scheldt, 60-160 km)
 - Temporary increase in SPM (Upper Sea Scheldt, 95-160 km) for years with low riverine discharge



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Report

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