LONG TERM DEVELOPMENT OF SHOALS

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Long term development of shoals

**Shoals** = “Platen”: tidal flats surrounded by channels

“Slikken” (= tidal flats between channel and embankment) display different developments

Three messages:

1. Ongoing consolidation of shoals: from fragmented shoal complexes to 2-3 large shoals per meso-cel

2. Developments (height, surface area) differ per meso-cel

3. Long-term changes govern, recent dredge disposal strategy (“plaatrandstortingen”) seem to have relatively limited impact
Consolidation of shoals

1955

2017
Development per macrocel: Area

Area with height over NAP -1.5 m
Development per macrocel: Area
Development per macrocell: Height

Average height in area with height over NAP -1.5 m
Development per macrocel: Height

Average height in area with height over NAP -1.5 m
Long term development of shoals

Three messages:

1. Ongoing consolidation of shoals: from fragmented shoal complexes to 2-3 large shoals per meso-cel

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One request:

Changes are not driven by (changes in) tides, waves, sediment availability (dredge disposal), … alone:

A conceptual model that can explain the (differences in) developments is needed