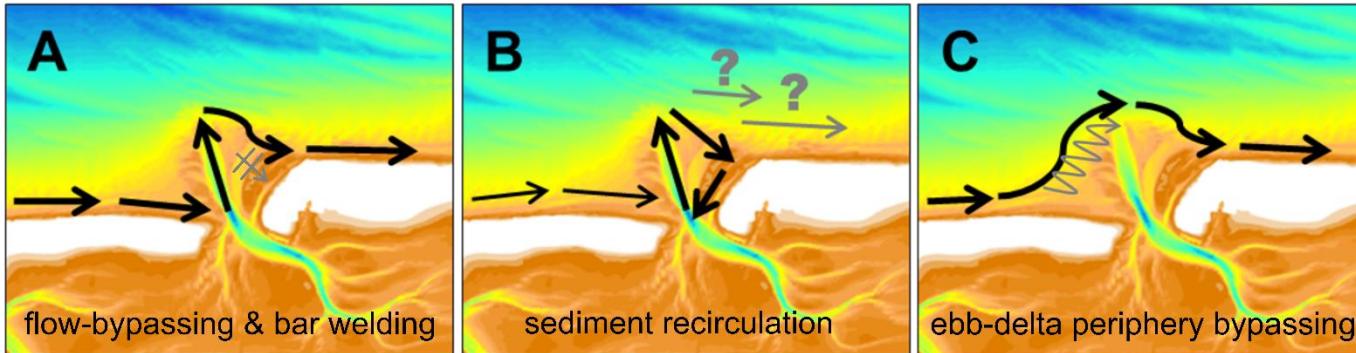
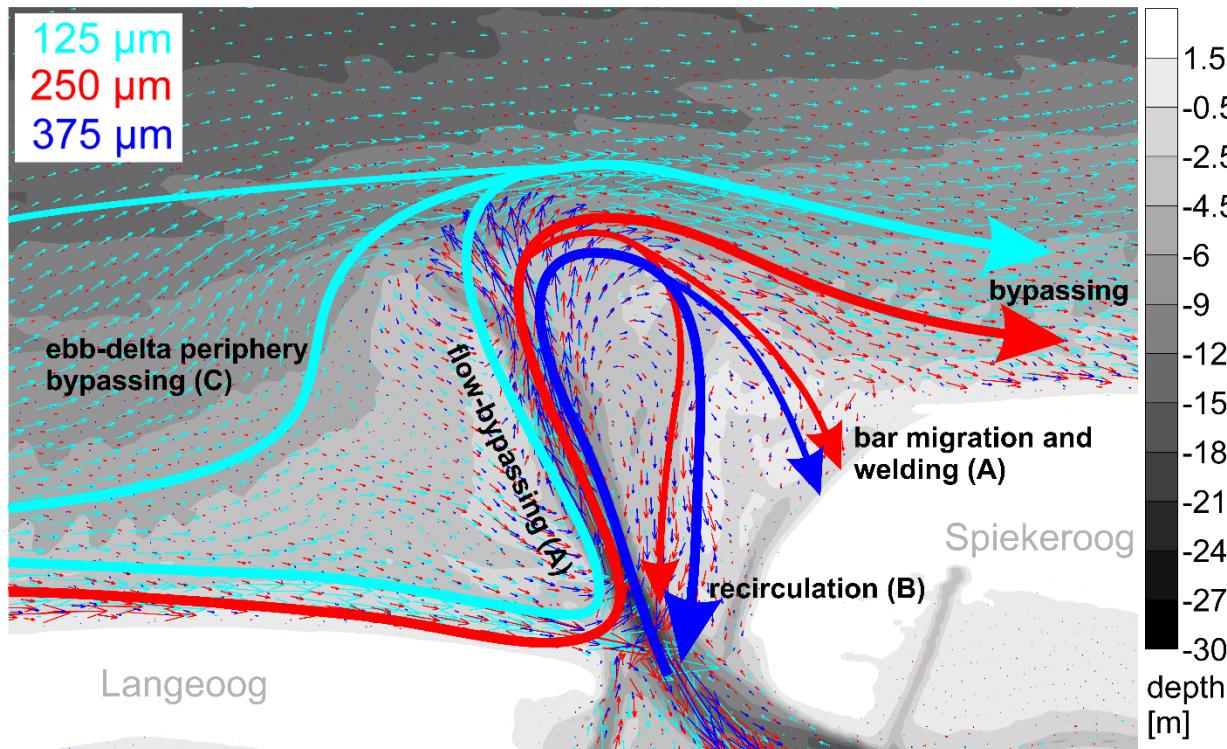


Grain-size dependent tidal inlet sediment bypassing



Literature:
Common schemes of tidal inlet sediment bypassing

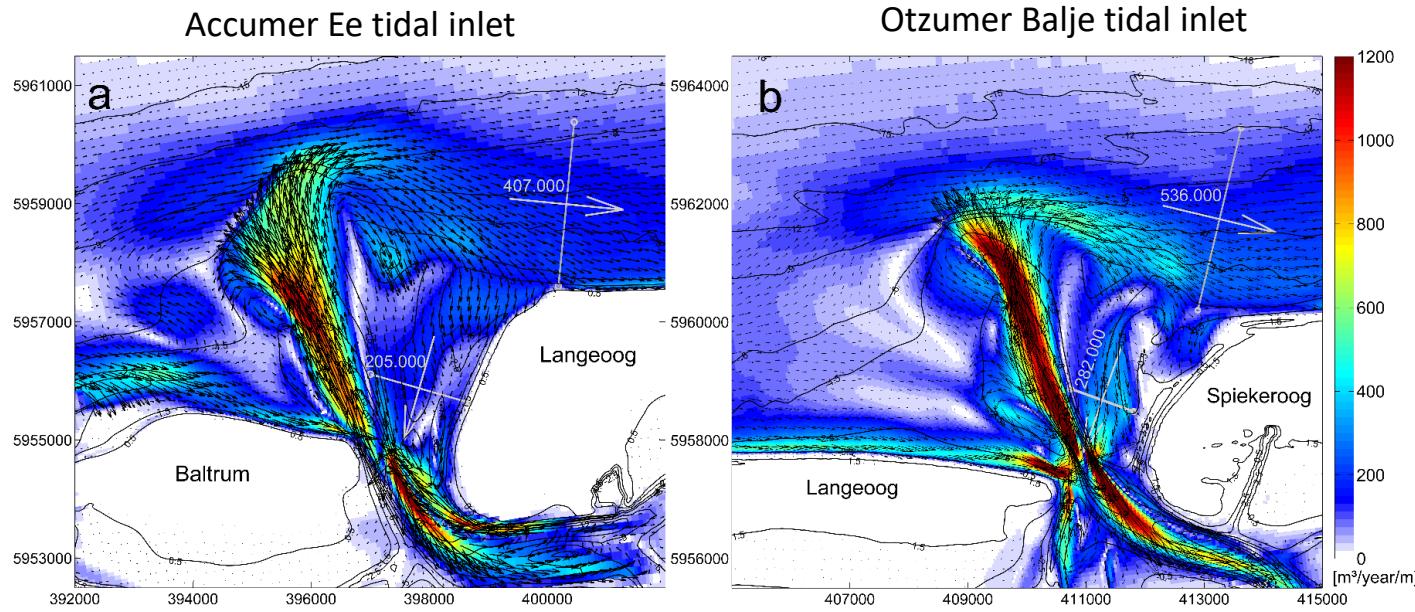
- A: Bruun & Gerritsen (1959)
B: e.g. Son et al. (2010)
C: Gaye & Walther (1935)



Contradictory schemes of tidal inlet sediment bypassing are explained by modelled residual transport patterns of distinct grain-size fractions

Herrling & Winter (Coast. Eng., 2018)

Ratio of bypassed to recirculated sand volumes



Bypassed/recirculated	Total sand	125 μm	250 μm	375 μm
Accumer Ee	2.0	4.5	0.8	0.5
Otzumer Balje	1.9	11.5	0.8	0.3

→ Recirculation becomes more dominant with increasing grain-size

Herrling & Winter (Coast. Eng., 2018)