



Sediment source-to-sink analysis in the Norwegian Arctic

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When multiple source areas are located on a continuously moving plate margin relative to a sink, the signal propagation in the source-to-sink system may vary significantly in time and space.

How fast and severe the impact of tectonics and climate is on sediment erosion-transfer-deposition in this dynamic setting is still not well understood. Here, I use a forward stratigraphic modelling technique to constrain key controlling parameters in basin filling in relation to the Cenozoic successions of the Barents Sea in the Norwegian Arctic and present other source-to-sink analyses in the other part of Norwegian margins across different timescales and environments.