

**Submission: T-2020-245-10**

**Title Dr**

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Theme OTHER - Topics relevant to Arctic Observing

Author list (in order) Houssais, Marie-Noelle ; Herbaut, Christophe ; Testor, Pierre ; Mortier, Laurent and the National Glider Facility

Poster title (brief) The structure of the Atlantic Water flow off Svalbard from summer glider snapshots

Abstract - text box

Glider transects have been carried out over the west Spitsbergen shelf-slope region in successive summers in 2017, 2018 and 2019 in the context of the INTAROS project. The repeat sections between 78° N and 78°40' N revealed some robust features regarding the cross-slope structure of the West Spitsbergen Current but significant differences also exist which demonstrate the difficulty in retrieving a robust picture of the Atlantic water flow and associated transports and recirculation from time limited observations. Possible mechanisms behind the observed variability are explored.