

**Submission: T-2020-234-21**

**Title** The results of hydrochemical observations along the Northern Sea Route in August-October 2019.

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Theme

- -Theme 5: Arctic Observations in the context of Global Observing initiatives
- OTHER - Topics relevant to Arctic Observing

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Poster title (brief) A unique data set of hydrochemical observations was obtained during the Transarctic expedition on RV "Professor Multanovskiy" in the August-October of 2019.

Abstract - text box

A unique data set of hydrochemical observations was obtained during the Transarctic expedition on RV "Professor Multanovskiy" in the August-October of 2019. The expedition voyage covered the entire Northern Sea Route twice: from Vladivostok to Murmansk, Russia, and back. The observations were made in the Barents, Kara, Laptev, East Siberian and Chukchi seas and in the Bering Strait waters. In this report, new results of field observations are presented. In particular, information on nutrients, alkalinity, pH, oxygen saturation, various types of pollution is given. Polluted water areas are determined. Conclusions of the features of the hydrochemical structure of the waters of the Russian seas, the distribution of continental waters, about the state biological activity, carbonate system, and degree of the shelf seas of the Russian Arctic pollution are made. This work was funded by the Ministry of Education and Science of the Russian Federation (the unique identifier of the project — RFMEFI61619X0108).