

# Arctic shipping trends during hazardous weather and sea-ice conditions and the Polar Code's effectiveness.

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## Supplementary Material

This file contains 2 supplementary figures:

- **Figure S1: Seasonal distribution of shipping (excl. fishing sector) and sea-ice in the Northern Sea Route.**
- **Figure S2: Seasonal distribution of Passenger & Cruise vessels and sea-ice around the Svalbard Archipelago.**

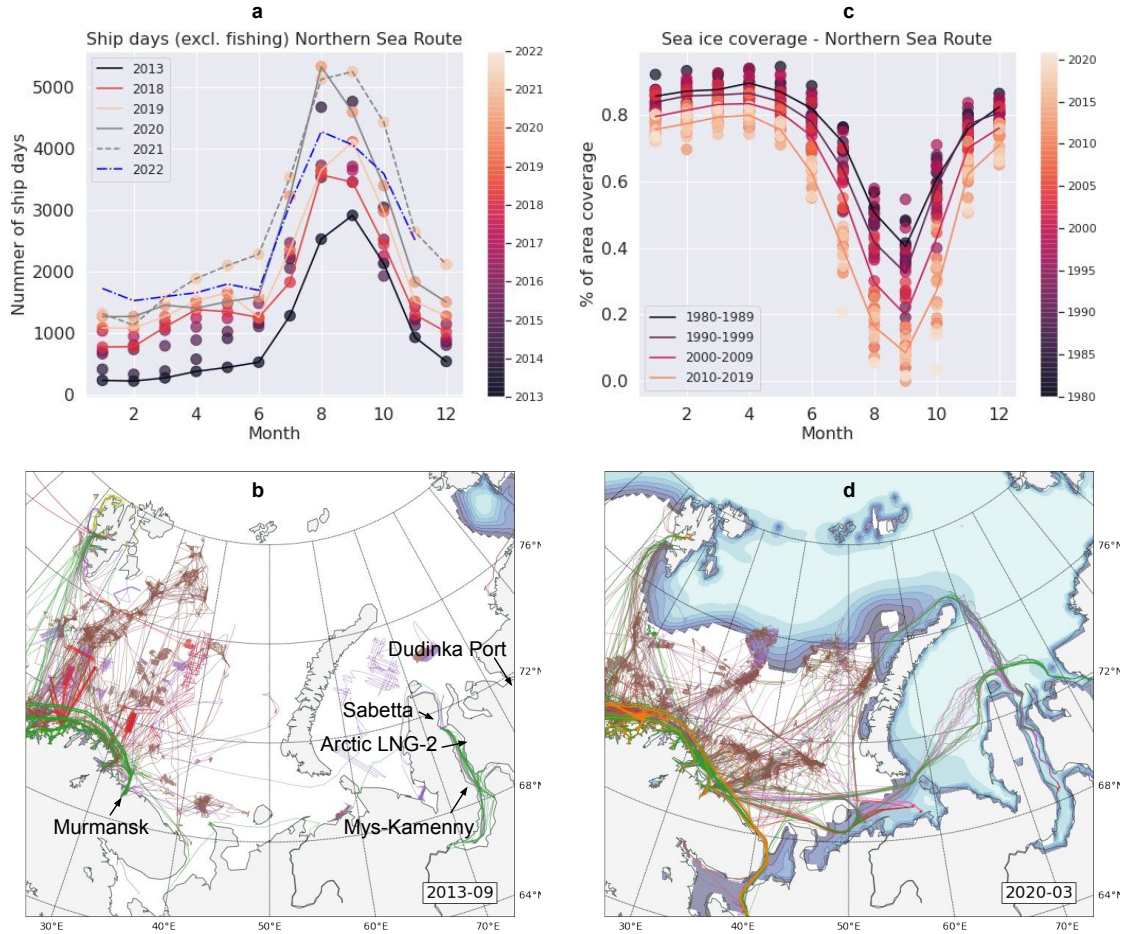


Figure 1: **Seasonal distribution of shipping (excl. fishing sector) and sea-ice in the Northern Sea Route.** In (a) The number of ship days within each month from 2013 to 2022 is shown (the fishing sector is excluded). Solid lines represent the years 2013, 2018, 2019, and 2020. Dashed lines show 2021 and 2022. In (c) the area covered (in %) is shown for each month from 1980 to 2020. Solid lines represent the decadal mean values from 1980 to 2020. In (b) and (d) the ship tracks for September 2013 and March 2020 are shown, respectively. Colors are related to different ship types (see Figure 1). Color-contoured is the month-averaged sea-ice concentration.

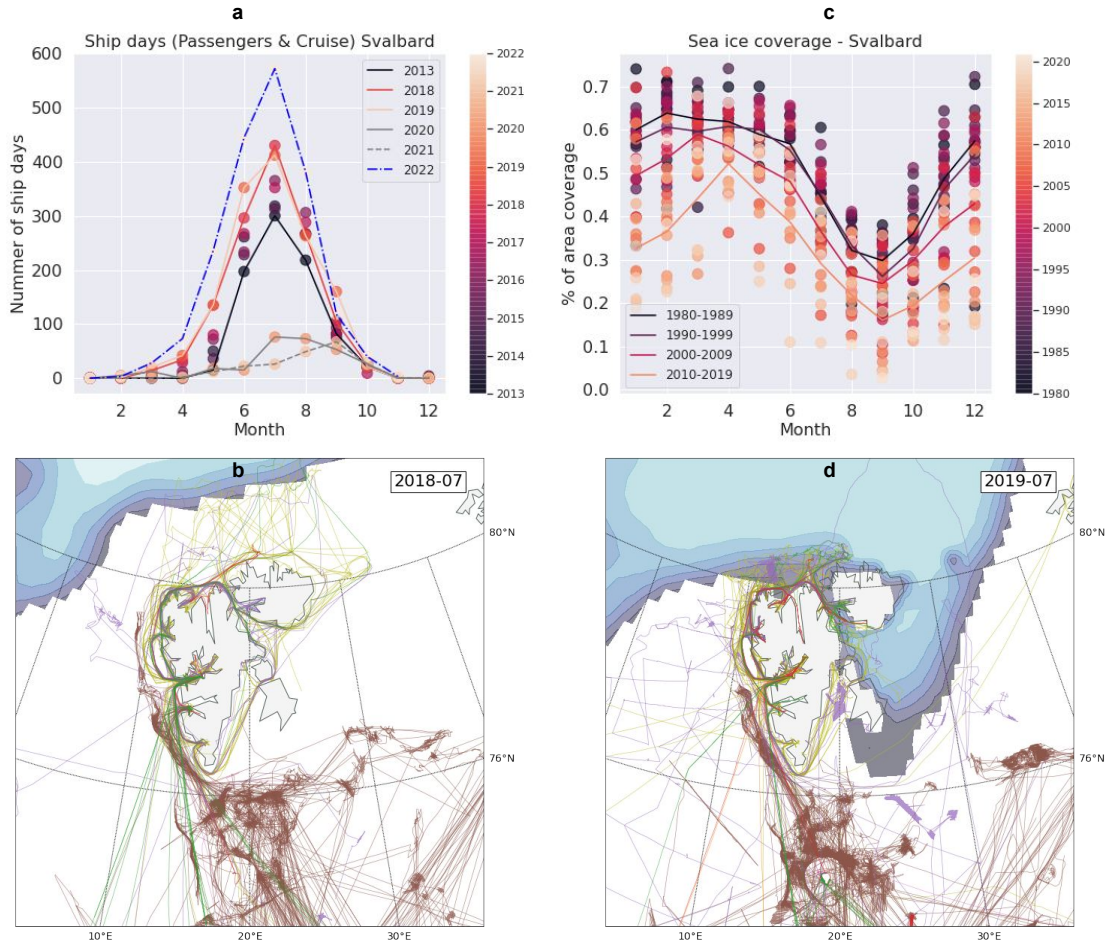


Figure 2: **Seasonal distribution of Passenger & Cruise vessels and sea-ice around the Svalbard Archipelago.** As in Figure Supplementary 1, but in (a) and (c) for the waters around Svalbard. In (b) and (d) the ship tracks for July 2018 and July 2019 are shown. Colors are related to different ship sectors (see Figure 1).