

GEF2610: FIELD WORK WITH F/F TRYGVE BRAARUD 22 SEPTEMBER 2017



F/F Trygve Braarud is the biggest sea-going vessel of UiO. It is a floating laboratory with modern sensors for measuring physical, chemical and biological parameters. Its normal region of operation is the inner and outer Oslo fjord. F/F Trygve Braarud, built in aluminum, was constructed in 1983 at Linstøls Skips- og Båtbyggeri in Risør, Norway. The vessel is 21.8 meters long, has a normal cruising speed of 9.5 knots (18 km/h) and a maximum speed of 12 knots (22 km/h).

We meet: At Rådhusbrygge («Rådhuskaia»), pier 3 (see the map), in front of city hall and near Aker brygge, at **9 am**. Trygve Braarud will come in to pick us up.

We finish: The cruise lasts about 5 hours, so we'll be back at Rådhuskaia at around 3 pm.

What to bring: Bring a notebook and pen/pencil. Remember that the air out at sea is usually colder than on land, so bring appropriate clothing (check the weather forecast). The boat supplies us with tea and coffee, but you'll have to bring lunch and sweets yourself.

Measurements: We will take hydrographic measurements (salinity, temperature) at two-three different stations, at least one in Bunnefjorden (inner part of the fjord) and another in Vestfjorden (outer part), and then contrast the hydrography (there is a sill between the inner and outer parts of the fjord). We will also check optical properties of the water with two different methods (one old and one new). Finally, we will estimate three types of heat fluxes between atmosphere and ocean.

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