

Advanced oceanography (MO4OCAD) 7,5 hp, autumn 2020

Course responsible teacher: Jonas Nycander

Contents

This course presents central aspects of physical oceanography, with emphasis on the global circulation and processes that are essential for it. This includes theories for the wind-driven circulation (in both one and several layers), and for the global overturning circulation and how it is forced by small-scale mixing. The different roles played by temperature and salinity in the circulation is also studied. Other topics are tropical circulation, internal waves, hydraulics, observational datasets, and the Baltic Sea.

Schedule

The course begins on Monday, August 31. There will be two lectures each week, on Mondays and Wednesdays, either 10-12 (exact starting time 10.15) or 13-15 (exact starting time 13.15). According to the preliminary plan, the last lecture will be given on Monday, October 19.

Lecture plan:

August 31	10-12	Jonas
September 2	13-15	Kristofer
September 7	13-15	Kristofer
September 9	10-12	Jonas
September 14	13-15	Jonas
September 16	10-12	Jonas
September 21	10-12	Jonas
September 23	10-12	Jonas
September 28	10-12	Johan
September 30	10-12	Jonas
October 5	10-12	Inga
October 7	10-12	Inga
October 12	10-12	Inga
October 14	10-12	Inga
October 19	10-12	Inga