

Course Syllabus

Tu 22.4	08:30	Opening of course (Natasha, Gal, Adi, Bracha, Barak)
	09:00 -12:00	Dive checkouts & Lunch - Food shopping
	12:00-14: 00	Lectures – Opening (Dani and Ilana)
		Introductory lecture to photosynthesis – I. Light reactions (Sven)
	14:00-16:00	Lecture – Introductory lecture to photosynthesis – Carbon fixation (Sven)
	16:00-18:00	Lecture - Aquatic photosynthetic organisms - Macrophytes (Sven)
	18:00-19:30	Photosynthetic carbon acquisition in marine macrophytes (Sven)
Wed 23.4	08:00-10:00	Lecture - Environmental conditions in the sea & evolution of phytoplankton (Ilana)
	10:30-12:30	Lecture – Photosynthetic carbon acquisition in cyanobacteria / microalgae (Dani)
	12:30-14:00	Lunch
	14:00-16:00	Lecture – Global change and primary productivity in the oceans Measuring Primary production in the oceans-methods (Ilana)
	16:00-17:30	Lecture – Photosymbioses and coral bleaching (Dani)
	18:00-19:30	Project Introduction
Th 24.4	08:00- 11:30	Methods of measuring photosynthesis and primary production (Dani, Ilana). Demonstrations of measuring photosynthesis and primary production biomass changes, carbon uptake, oxygen evolution, stable isotopes (triple isotopes), indirect methods – fluorescence (PAM & FRRF, Chl a fluorescence).
	11:30-12:30	Lunch
	12:30-14:30	Lecture - Nir Keren (TBD) “Photosynthesis in non-conventional environments by non-conventional organisms”
	15:00-19:00	project set ups + food shopping (small boat for Tash, radioactive training Gal’s group)
	19:00-20:00	Debate on manipulations of oceanic primary production: the case of Fe fertilization of the oceans (Ilana)
Fr 25.4	07:30 –10:00	Morning Dive and Snorkel
	10:30 -17:00	Project work
Sa 26.4		Visit underwater observatory (on your own)
	20:00 –	project work

Su 27.4	08:00-12:00	Project group work
	13:00-16:30	Project work (preparation for cruise)
	17:00-20:00	Project work
	21:00 -21:30	Erev Yom Hashoa
Mon 28.4	08:00-13:00	Scientific cruise (2 groups)
	13:00-14:00	Lunch
	14:00-17:00	Project work
	17:00-18:30	Phytoplankton lab
	18:30-19:30	Project work (small boat –Gal)
	19:30-	Dinner & food purchases
Tu 29.4	08:00-14:00	Field trip to Ktora and National Mariculture Center (algae biotechnology)
	14:00-18:00	projects
	18:00-19:30	test
We 30.4	08:30 -09:30	Course Assessment (Bracha)
	10:00-12:00	Guest lecture (to be determined)
	12:00 – 13:00	Lunch
	14:00 –17:00	Project preparation
	17:00- 19:00	Presentation of projects
	20:00	BBQ
Th 1.5	until 08:00	Rooms Cleaning & Departure
	08:00-12:00	Project group work.