

**Seventh IOCCG Summer Lecture Series, 6-18, ISMAR-CNR/VIU, Venice, Italy**

**WEEK #1**

**Sunday 5 Jul 2026** Participants arrive in San Servolo

<b>Date</b>	<b>Subject</b>	<b>Lecturer(s)</b>
<b>Monday 6 Jul 2026</b>		
09h00 - 09h10	Welcome to the course	Vittorio Brando / Laura Zoffoli
09h10 - 09h30	Presentation of IOCCG	Laura Zoffoli
09h30 - 10h00	Presentation of ISMAR	Vittorio Brando
10h00 - 10h15	introduction by the lecturers (2 min each, no slides)	lecturers on site
10h15 - 10h45	Coffee Break	
10h45 - 12h30	Brief student presentations (~3 min each, 2 slides); group photo before lunch!	Students
12h30 - 14h00	Lunch break	
14h00 - 15h00	Questions and answers on pre-recorded videos (The nature and properties of light, Interaction of light and matter)	Emmanuel Boss
15h00 - 15h30	Coffee Break	
15h30 - 17h30	Practical: playing with light	Emmanuel Boss
17h30 - 19h30	Welcome drink (hosted)	
<b>Tuesday 7 Jul 2026</b>		
09h00 - 10h30	Optics of Marine Particles	Mike Twardowski
10h30 - 11h00	Coffee Break	
11h00 - 12h30	Radiometry and apparent optical properties (AOPs), fundamentals	David Antoine
12h30 - 14h00	Lunch break	
14h00 - 15h30	Fundamentals of IOPs and their relationship with AOPs	Zhongping Lee
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Ocean Scattering	Mike Twardowski
<b>Wednesday 8 Jul 2026</b>		
09h00 - 10h30	Radiometry, apparent optical properties, measurements & uncertainties	David Antoine
10h30 - 11h00	Coffee Break	
11h00 - 12h30	Introduction to Radiative Transfer Modelling	John Hedley
12h30 - 14h00	Lunch break	
14h00 - 15h30	IOPs Inversion and applications	Zhongping Lee
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Optical properties of phytoplankton	Pierre Gernez
19h00 -	Pizza together (non-hosted)	
<b>Thursday 9 Jul 2026</b>		
09h00 - 10h30	Past, present and future of satellite OCR	Vittorio Brando
10h30 - 11h00	Coffee Break	
11h00 - 12h30	Atmospheric corrections of satellite OCR observations (1/2)	David Antoine
12h30 - 14h00	Lunch break	
14h00 - 15h30	Inexpensive but robust approaches for determining optical and biogeochemical properties	Mike Twardowski / Emmanuel Boss / Bob Brewin
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Ocean biogeochemical cycles	Bob Brewin
<b>Friday 10 Jul 2026</b>		
09h00 - 10h30	Atmospheric corrections of satellite OCR observations (2/2)	David Antoine
10h30 - 11h00	Coffee Break	
11h00 - 12h30	Primary production, export production and climate-driven changes	Bob Brewin
12h30 - 14h00	Lunch break	
14h00 - 15h30	HABs	Pierre Gernez
15h30 - 16h00	Coffee Break	
16h00 - 17h00	Practical ==>preparation for field excursion	Mike Twardowski / Emmanuel Boss / Bob Brewin / Vittorio Brando / Laura Zoffoli
17h00 - 18h00	Preparation for field excursion: The Venice Lagoon	Giovanni Cecconi
<b>Saturday 11 Jul 2026</b>		
08h30 - 12h30	Field excursion in the Venice Lagoon	Mike Twardowski / Emmanuel Boss / Bob Brewin / Vittorio Brando / Laura Zoffoli
12h30 - 14h00	Lunch break	
Afternoon	FREE	

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**WEEK #2**

<b>Date</b>	<b>Subject</b>	<b>Lecturer(s)</b>
<b>Sunday 12 Jul 2026</b>		
	FREE	
<b>Monday 13 Jul 2026</b>		
09h00 - 11h00	Practical ==> post field excursion (data processing and/or briefing)	Mike Twardowski / Emmanuel Boss
11h00 - 11h30	Coffee Break	
11h30 - 13h00	Perspectives on hyperspectral optics and remote sensing	Jeremy Werdell
13h00 - 14h30	Lunch break	
14h30 - 16h00	Fundamentals on shallow water remote sensing	John Hedley
16h00 - 16h30	Coffee Break	
16h30 - 18h00	Tools for shallow water mapping	Claudia Giardino / Laura Zoffoli
<b>Tuesday 14 Jul 2026</b>		
09h00 - 10h00	Introduction to practical sessions and expectations for mini-projects. Formation of groups of 3 students	Vittorio Brando
10h00 - 11h00	Practical Session - HydroLight Lab	John Hedley
11h00 - 11h30	Coffee Break	
11h30 - 12h30	Practical Session - HydroLight Lab	John Hedley
12h30 - 14h00	Lunch break	
14h00 - 15h30	Principles of LiDAR	Davide Dionisi
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Phytoplankton community composition derived from optics and remote sensing	Ivona Cetinic
17h30 - 18h30	time for mini-projects	students + lecturers
<b>Wednesday 15 Jul 2026</b>		
09h00 - 10h30	AC for turbid and complex waters	Quinten Van Hellemont
10h30 - 11h00	Coffee Break	
11h00 - 12h30	Fine scale satellite - applications to turbid waters	Federica Braga
12h30 - 14h00	Lunch break	
14h00 - 15h30	Practical on application of PACE data	Jeremy Werdell / Ivona Cetinic
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Practical on application of PACE data	Jeremy Werdell / Ivona Cetinic
17h30 - 18h30	Time for mini-projects	students + lecturers
<b>Thursday 16 Jul 2026</b>		
09h00 - 10h30	Applications of LiDAR to ocean color science	Davide Dionisi
10h30 - 11h00	Coffee Break	
11h00 - 12h30	OC multi-sensor	Vittorio Brando
12h30 - 14h00	Lunch break	
14h00 - 15h30	Practical on Copernicus datasets	Ben Loveday
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Practical on Copernicus datasets	Ben Loveday
17h30 - 18h30	Time for mini-projects	students + lecturers
<b>Friday 17 Jul 2026</b>		
09h00 - 10h30	Inland waters	Claudia Giardino
10h30 - 11h00	Coffee Break	
11h00 - 12h30	Practical on ACOLITE	Quinten Van Hellemont
12h30 - 14h00	Lunch break	
14h00 - 15h30	Practical on Copernicus datasets	Ben Loveday
15h30 - 16h00	Coffee Break	
16h00 - 16h45	Integration of young scientists to the scientific community	Emmanuel Boss
16h45 - 17h30	time for mini-projects (finalising and uploading)	students + lecturers
18h30 - 19h00	Visit to Italian Biodiversity Gateway	Vittorio Brando / Laura Zoffoli
19h00 -	Group dinner at Palazzina Canonica (hosted)	
<b>Saturday 18 Jul 2026</b>		
09h00 - 10h30	presentation of mini-projects by students groups (10x6 minutes per group - 2 slides)	
10h30 - 11h00	Coffee Break	
11h00 - 12h30	General discussion, wrap-up, feedback lecturers and students	All together
12h30 - 14h00	Lunch break	
Afternoon	FREE	
Evening	Festa del redentore in Venice	