



Dates and venue: 3th July to 12th July 2017, Barcelona (Spain)

"Spatial and temporal patterns in physical-biological oceanic processes: from scale interaction to the rise of the living ocean"

Location

Barcelona is one of the most attractive cities in Europe and the World. Its wonderful weather and privileged location by the sea, the numerous architecture styles (modernist, Gothic, medieval, Romanesque, Roman) and its beautiful surroundings, a very active civil society, the many international events and exhibitions, and the never-ending cultural proposals, attract visitors from all over the world.

The Summer Colloquium will be held at the **Institute of Marine Sciences (ICM)**, the largest Spanish centre for the study of Marine Sciences. ICM has a permanent staff of more than 60 researchers, with well-recognized scientists on the fields of Biological, Chemical and Physical Oceanography. It is located near downtown Barcelona, right by the beach and besides a city harbour. It has excellent field, laboratory and classroom facilities to hold the Ramon Margalef Summer Colloquia. Additionally, there are several nearby student residences which are available for the summer university-vacation period, where the participants of the colloquium will be able to lodge.

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How to arrive?

ICM is located in Barcelona's Barceloneta District between the Hospital del Mar and the Olympic Towers. To reach ICM, you can use:

- **Bus:** The end of the lines D20, V21, V27, 36, 45 and 92 are a few meters from the ICM.
- **Underground (Metro):** The L4 line (yellow line) has a station (Ciutadella-Vila Olímpica) 300 metres from the ICM.

If you come from outside Barcelona arriving by:

- **Car:** Use the Ronda del Litoral. Towards Bessós (north) take exit 21. Towards Llobregat (south) take exit 22.
- **Train (RENFE):** Get off at one of these stations: Sants Estació, Clot, Passeig de Gràcia. And take the underground L4 line (yellow line) to Ciutadella-Vila Olímpica station.
- **Train (Ferrocarrils de la Generalitat, FGCC):** Get off at Plaça Catalunya station, and take the 59 bus or the underground.
- **Airplane:** Directly from the Airport (El Prat) may take train, bus or taxi. You can take the bus (Aerobus) from Airport to Plaça Catalunya and there take the underground (line 4; Ciutadella-Vila Olímpica Stop) or the bus (59 line. Ramon Trias Fargas-Passeig Marítim Stop).

Spatial and temporal patterns in physical-biological oceanic processes: from scale interaction to the rise of the living ocean
Week 1 (3th July to 9th July)

	Monday 3 th	Tuesday 4 th	Wednesday 5 th	Thursday 6 th	Friday 7 th	Saturday 8 th	Sunday 9 th
8:30-9:30	Registration	Talk topic <i>b</i> : Diego Macías	Talk topic <i>c</i> : Nicolas Gruber	Talk topic <i>e</i> : Carles Pelejero	Group work	Citizen science	Field activity
9:30-10:30	Welcome words Thinking of Margalef	Talk topic <i>b</i> : Luke Skinner	Talk topic <i>c</i> : Celia Marrasé	Talk topic <i>e</i> : Jordi Solé			
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break			
11:00-12:00	Physical- Biological interactions	Talk topic <i>b</i> : Elisa Berdalet	Talk topic <i>c</i> : Eric Galbraith	Talk topic <i>e</i> : Beatriz Reguera	Open debate	Citizen science	
12:00-13:00	Student presentation	Open debate	Open debate	Open debate			
13:00-14:30	Lunch together	Lunch	Lunch	Lunch	Lunch	Lunch	Snack together
14:30-15:30	Student presentation	Talk topic <i>a</i> : Alban Lazar	Talk topic <i>d</i> : Dolors Vaqué	Groups presentation of literature-search	Bus trip to Begur	Group work	Return to Barcelona
15:30-16:30	Introduction to working groups	Talk topic <i>a</i> : Francesc Peters	Talk topic <i>d</i> : Pedro Cermeño	Open debate	Guided visit to Begur		
16:30-17:00	Coffee break	Coffee break	Coffee break	Coffee break			
17:00-18:00	Group work	Talk topic <i>a</i> : Joan Llort	Talk topic <i>d</i> : Marta Coll	Cultural event		Cinema Session	Free-time
18:00-19:00	Ice breaker	Open debate	Open debate				
Evening		Cultural event			Dinner together		

SCHEDULE

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Week 2 (10th July to 12th July)

	Monday 10 th	Tuesday 11 th	Wednesday 12 th				
8:30-9:30	Group work	Group work	Open debate				
9:30-10:30							
10:30-11:00	Coffee break	Coffee break	Coffee break				
11:00-12:00	Open debate	Open debate	Student group presentation to general audience				
12:00-13:00							
13:00-14:30	Lunch together	Lunch	Lunch				
14:30-15:30	Workshop on Scientific writing	Practical sessions on laboratory/field experiments	Final remarks				
15:30-16:30							
16:30-17:00	Coffee break	Coffee break	Closure				
17:00-18:00	Workshop on communicating science	Practical sessions on analysis tools					
18:00-19:00							
Evening		Colloquia Dinner					

Topic a- Spatial structures maximizing property fluxes (material and energy input, flows through turbulence and currents),

Topic b- Pulsating patterns and bloom dynamics (external forcing and internal response, physical and biological rhythmicity),

Topic c- Biogeochemical recycling and primary production (chemical cycling, metabolism and the ocean's thermodynamic state),

Topic d- Community structure and resilience (species diversity and distribution, interactions, connectivity and food webs),

Topic e- Anthropogenic effect (warming, acidification, deoxygenation, changes in primary production).

SPECIAL ACTIVITIES:

Monday 3th July:

- 12am-1pm and 2:30-3-30 pm: Slide presentations by participants
- 6:00 pm.- Ice breaker event, in the hall of the institute

Friday 7th July:

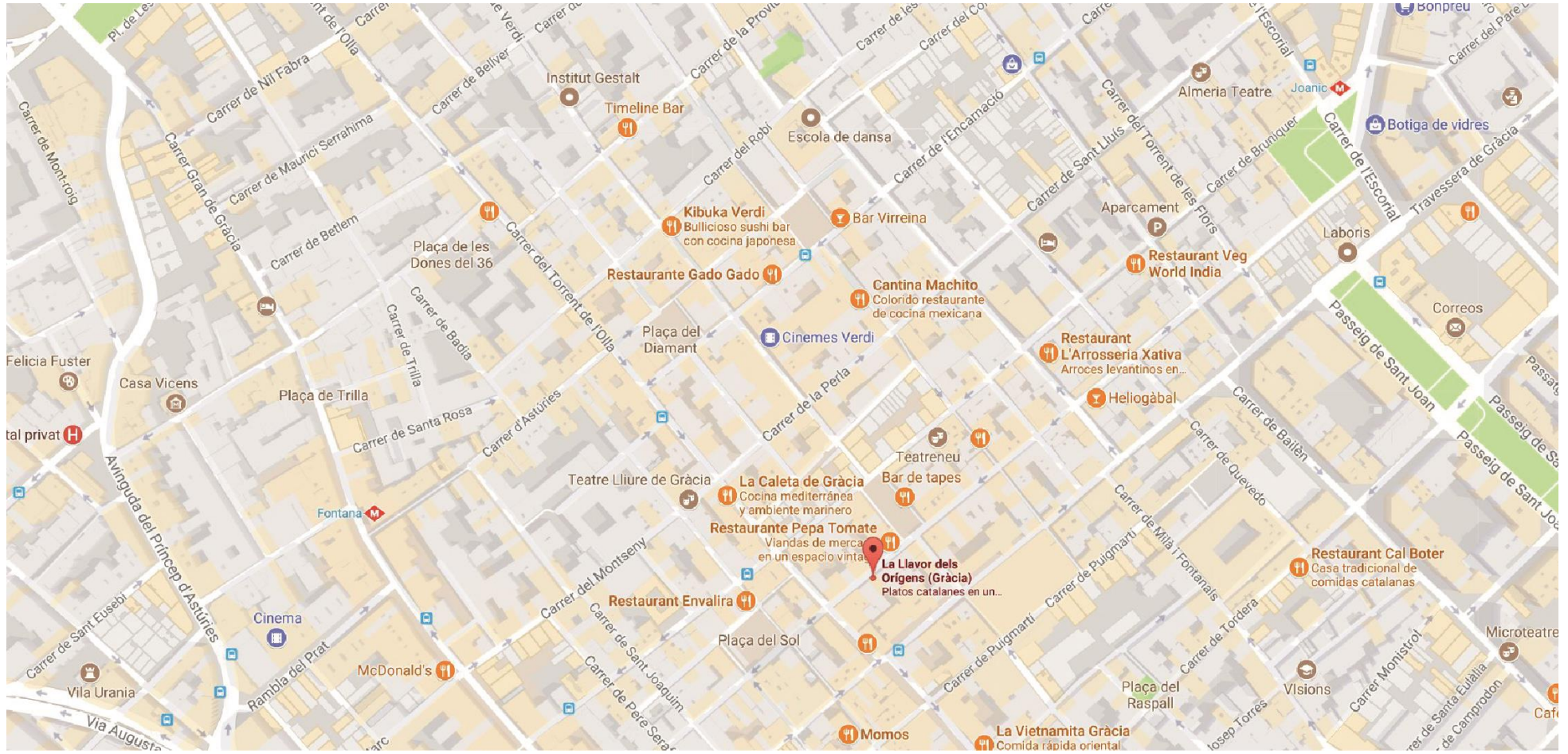
- 2:30 pm: Trip to Begur. We met at the hall of the ICM to go together.

Sunday 9th July:

Snorkell activity at Begur (Please bring a swim wear and snorkel material)
Optional, hiking activity in Begur

Tuesday 11 July:

- 8:30 pm: Farewell dinner, Restaurant Orígens (Carrer Ramón y Cajal, 12; take metro, get off at Fontana station in Line 3 or 5-minute walk from the station). (See map below).



INSTITUTIONAL SUPORT:

Institut
de Ciències
del Mar



CSIC

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



**AJUNTAMENT
DE BEGUR**