

# Program

## Day 0: Sunday 30<sup>th</sup> of May 2010

Not applicable to “Local participants”

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<i>16h45</i>	<i>Pick-up of participants at Brest train station (“gare SNCF”)</i>
<i>17h15</i>	<i>Pick-up of participants at Brest airport</i>
<i>As of 18h00</i>	<i>Arrival of participants at L’Aber Wrac’h</i>
	<i>Room distribution, welcome drinks</i>

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*20h00*      *Dinner*

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See section “Meeting logistics” for details on shuttles between Brest and L’Aber Wrac’h. **Participants whose arrival time in Brest does not allow to take the shuttle indicated above will be contacted for other shuttle arrangements.**

## Day 1: Monday 31<sup>st</sup> of May 2010

“Local participants” will join the conference on Monday morning with own travel arrangements.

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*7h30-8h30*      *Breakfast*

*8h00 – 8h30*      *Arrival of “Local participants”*

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**Chair: Raffaele Ferrari**

8h30	Introductory talk	<i>Paul Tréguer</i>
9h00	Coupling between physics, biology and chemistry in the ocean at the sub-mesoscale : how does it affect oceanic pCO <sub>2</sub> and carbon export ?	<i>Marine Lévy</i>
<i>10h00 - 10h30</i>	<i>Coffee break in bar / poster area</i>	
10h30	Upper ocean submesoscale frontal turbulence: manifestation, processes and effects	<i>Xavier Capet</i>
11h30	Regulation of photosynthetic light, nutrients and carbon by submesoscale dynamics	<i>Amala Mahadevan</i>

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*12h30 - 14h00*      *Lunch*

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**Chair: Adrian Martin**

14h00	Competitive dynamics of phytoplankton: from calm to turbulent waters	<i>Pedro Cermeño</i>
15h00	Coupling of ocean interior with surface through submesoscales	<i>Guillaume Lapeyre &amp; Patrice Klein</i>
<i>16h00 – 16h30</i>	<i>Coffee break in bar / poster area</i>	
16h30	High resolution remote sensing synergy in studies of mesoscale and submesoscale dynamics	<i>Bertrand Chapron</i>
17h30	Poster session with French regional finger food specialties	
<i>18h30 – 20h00</i>	<i>Departure of local participants - Break</i>	

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*20h00*      *Dinner*

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## Day 2: Tuesday 1<sup>st</sup> of June 2010

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7h30 – 8h30      *Breakfast*

8h15 – 8h30      *Arrival of local participants*

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**Chair: Patrice Klein**

8h30      The Canary Islands CTZ region: Ecosystem response to the interplay between upwelling filaments, eddies and island wakes

***Javier Arístegui***

9h30      Observing horizontal structure in the upper ocean: From ships to underwater gliders

***Daniel L. Rudnick***

10h30 – 11h00      *Coffee break in bar / poster area*

11h00      On the role of meso-scale eddies for productivity and carbon export in eastern boundary upwelling systems

***Nicolas Gruber***

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12h00 – 13h30      *Lunch*

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**Chair: Peter Franks**

13h30      Development of High-resolution Wide-Swath Altimetry for Observing the Oceanic Submesoscales

***Lee-Lueng Fu***

14h00      On mesoscale and submesoscale influences on a self-organizing ecosystem model with application to the California Current System

***Christopher A. Edwards***

15h00 – 15h30      *Coffee break in bar / poster area*

15h30      Observations of submesoscale flows and their effects on productivity

***Eric A. D’Asaro***

16h30      Are we observationally ready to quantify the impact of the submesoscale?

***John T. Allen***

17h30      Poster session with French regional finger food specialties

18h30 – 20h00      *Departure of local participants - Break*

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20h00              *Dinner*

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## Day 3: Wednesday 2<sup>nd</sup> of June 2010

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7h30 – 8h30 *Breakfast*

8h15 – 8h30 *Arrival of local participants*

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**Chair: Pascal Rivière**

8h30 From stirring to mixing at the ocean submesoscale: physics and biology **Raffaele Ferrari**

9h30 From subgrid physics to subgrid biophysics: Un défi submeso **Baylor Fox-Kemper**

10h30 – 11h00 *Coffee break in bar / poster area*

11h00 Submesoscale control of the mixed layer depth and its implications for carbon uptake in the Ross Sea **Leif Thomas**

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12h00 – 13h30 *Lunch*

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**Chair: Marina Lévy**

13h30 The submesoscale structuring role of horizontal stirring on marine ecological and biogeochemical dynamics **Francesco d’Ovidio**

14h30 Modelling Diverse Marine Ecosystems: How does resolution matter? **Sophie Clayton**

15h30 – 16h00 *Coffee break in bar / poster area*

16h00 Mechanisms of interplay between ocean turbulence and the marine ecosystem **Claudia Pasquero**

17h00 New tools to observe and model submesoscale dynamics **Peter Franks**

18h00 Poster session with French regional finger food specialties

19h00 – 20h00 *Break – “Local participants” stay on site*

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20h00 *Conference Dinner for all participants (including “Local participants”)*

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## Day 4: Thursday 3<sup>rd</sup> of June 2010

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4h30 – 8h30 *Breakfast*

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5h00 *Departure of 1<sup>st</sup> shuttle to*  
- *Brest airport (arrival 5h30)*  
- *Brest train station (arrival at 5h50)*

7h30 *Departure of 2<sup>nd</sup> shuttle to :*  
- *Brest airport (arrival 8h00)*  
- *Brest train station (gare SNCF) (arrival 8h20)*

9h30 *Departure of 3<sup>rd</sup> shuttle to*  
- *Brest airport (arrival 10h00)*  
- *Brest train station (gare SNCF) (arrival 10h20)*

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