

ICTP Advanced School on Oceanography (ASO): "World Climate & Overturning Circulation in Oceans & Mediterranean Seas"

April 30 - May 11 2007

******Preliminary Programme (revised May 7)****** *Venue: ICTP Adriatico Guest House - Kastler Lecture Hall*

WEEK 1 April 30 - May 4	Monday, April 30		Tuesday, May 1	Wednesday, May 2	Thursday, May 3	Friday, May 4
9:00 - 11:00 <i>All Lectures will be held at the Kastler Lecture Hall (Adriatico Guesthouse - Lower level 1)</i>	Registration	9:00 - 10:00	Harry Bryden (2) Ocean heat transport	Harry Bryden (4) Ocean heat transport	Harry Bryden (6) Ocean heat transport	J.-C. Gascard (3) Deep ocean convection &...
	(After Registration, all Administrative Formalities are to be done at the E. Fermi Building) [see General Info. for office location & hours]	10:00 - 10:30	Break	Break	Break	Break
		10:30 - 11:30	A. Lascaratos (2) Mediterranean Conveyor	A. Lascaratos (3) Mediterranean Conveyor	F. Ocampo Torres (3) Small scale processes in air-sea..)	F. Ocampo Torres (4) Small scale processes in air-sea..)
11:00 - 11:30	Opening & Introduction by Organizers	11:30 - 12:30	V. Artale (2) Role of the intermediate	F. Ocampo Torres (1) Small scale processes in air-sea interaction of paramount importance for large scale aspects as climate (& variability) & global overturning circulation (remote sensing)	R. Delfanti (1) Radioactive tracers for oceanic processes: potentiality & examples, in a climatic context	R. Delfanti (2) Radioactive tracers...
11:30 - 12:30	Harry Bryden (1) Ocean heat transport, ocean circulation and water mass properties (with particular emphasis on the Atlantic & Indian oceans, & the Mediterranean Sea)	12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
12:30 - 14:00	Lunch	14:00 - 15:00	Harry Bryden (3) Ocean heat transport	Harry Bryden (5) Ocean heat transport	J.-C. Gascard (1) Deep ocean convection & thermohaline circulation, with main focus on the results obtained from observations in the Nordic Seas & in the Mediterranean	J.-C. Gascard(4) Deep ocean convection &...
14:00 - 15:00	A. Lascaratos (1) Mediterranean Conveyor Belt, Modeling & Temporal Variability	15:00 - 15:30	Break	Break	Break	Break
15:00 - 15:30	Break	15:30 - 16:30	V. Artale (3) Role of the intermediate	F. Ocampo Torres (2) Small scale processes in air-sea..)	J.-C. Gascard (2) Deep ocean convection &...	F. Ocampo Torres (5) Small scale processes in air-sea..)
15:30 - 16:30	V. Artale (1) Role of the intermediate water on the thermohaline circulation variability at global and regional scale (Mediterranean Sea)	18:30		Reception [Adriatico Terrace]		

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WEEK 2 May 7 - 11	Monday, May 7	Tuesday, May 8	Wednesday, May 9	Thursday, May 10	Friday, May 11
9:00 - 10:00 <i>All Lectures will be held at the Kastler Lecture Hall (Adriatico Guesthouse - Lower level 1)</i>	L.Talley (1) Ocean circulation & climate, with main focus on the results obtained from observations (in particular the WOCE data) in the Pacific & Atlantic oceans	L.Talley (3) Ocean circulation & ...)	R. Williams (1) Ventilation and heat content change in the North Atlantic	Louis Legendre (3) Relations between marine ...)	Louis Legendre (5) Relations between marine ...)
10:00-10:30	Break	Break	Break	Break	Break
10:30-11:30	J. Kroeger Meridional transport processes in the upper subtropical and tropical Atlantic	M. Gacic Adriatico Winter Convection & Eastern Mediterranean Deep Circulation	F. Giorgi Main Results from the IPCC 4th Assessment Report	Student Presentations (see attachment)	Student Presentations (see attachment)
11:30-12:30	Johann Junglaus(1) The overflows across the Greenland-Scotland Ridge, mechanisms, processes, & their representation in ocean circulation models	Johann Junglaus (3) Mechanisms of inter- and multidecadal MOC variability in climate model simulations	Louis Legendre (1) Relations between marine pelagic ecosystems & carbon fluxes in oceans, within the context of climate change	R. Williams (3) Basin-scale patterns of biological production	Louis Legendre (6) Relations between marine ...)
12:30 -14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:00	L.Talley (2) Ocean circulation & ...)	L.Talley (4) Ocean circulation & ...)	R. Williams (2) Overturning signals and their coherence over the North Atlantic	Louis Legendre (4) Relations between marine ...)	14:00 - 14:30 CLOSING SESSION (& conferral of DIPLOMAS OF ATTENDANCE)
15:00 - 15:30	Break	Break	Break	Break	Break
15:30 -16:30	Johann Junglaus (2) The role of overflow & deep-water formation variability in shaping the Meridional Overturning Circulation	Johann Junglaus(4) The MOC in a changing climate	Louis Legendre (2) Relations between marine ...)	R. Williams (4) Role of boundary currents and eddies in shaping patterns of biological production	14:30 - 16:30 Trip to OGS Transporation will be provided by coach.



Student Presentations

Thursday, May 10

10:30 - 11:30

- B.H. Vaid
- Karakavalasa
- M.Kukkapalli
- P. Sreenivas

Influence of Pacific in Southern Indian Ocean Rossby Waves
Some Studies on the Arabian Sea mixed-layer dynamics
Upper ocean studies in the Bay of Bengal using Argo data
Inferring Arabian Sea mixed-layer using Argo floats

Friday, May 11

10:30 - 11:30

- O. Diaz

Hydrodynamic Model in the Cienfuegos Bay