



Decadal Climate Variability workshop Lab

Friday, 20th Nov., 14:30 – 18:00, Info-lab Adriatico

Saturday, 21st Nov., 9:00 – 18:00, Info-lab Adriatico

Monday, 23rd Nov., 9:00 – 18:00, Info-lab Adriatico

Tuesday, 24th Nov., 9:00 – 12:30, participants

presentations in Giambiagi Lecture Hall (Adriatico)

OPERATIONS/TRAVEL CLAIMS OFFICE 08.30 - 12.00 and 13.30 - 14.30 (Mon-Fri)

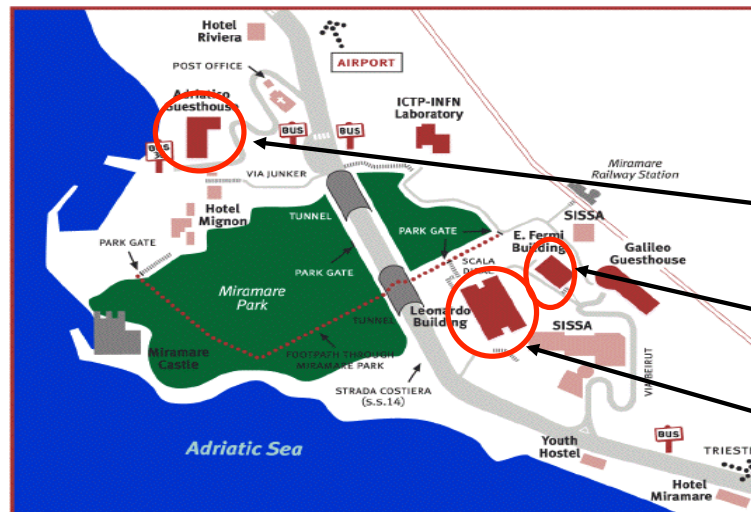
E. Fermi Building - Room T17 (ground floor) - For daily allowances/travel reimbursements. Note: reimbursements of

over Euro 200 are done via bank cheque, cashed at UniCredit Banca (see timetable below).

BANK (UniCredit Banca) 08.30 - 12.30 (Mon-Fri)

E. Fermi Building - Main Entrance (ground floor) - Kindly note that for all banking transactions you are required to

exhibit your passport (or equivalent valid identification document).



**Adriatico Guesthouse
Info-Lab**

**All other important
stuff is here:
Fermi Building**

**We are here:
Leonardo Building**





A) Analysis of coupled Atlantic Pacemaker

Participants will analyze the output of a century-long (1901-2013) SPEEDY-NEMO Atlantic Pacemaker ensemble (10 members). In this experiment sea surface temperatures in the Atlantic are prescribed from observations, but the model (SPEEDY-NEMO) is fully coupled elsewhere in order to investigate the impact of the observed Atlantic (decadal) Variability on the Indo-Pacific region. Some analysis will be suggested (signal-to-noise, regression of fields onto an Atlantic Multidecadal Oscillation index), but the participants own ideas for further analysis are highly welcome! Also data from a control simulation is provided, in order to better identify the Atlantic impact.

**For pacemaker experimentation, please see Christophe Cassous
Talk on Friday, 20th Nov., 9:30-10:00**



B) SPEEDY AGCM stand-alone experimentation

To participants the intermediate complexity SPEEDY model (ICTPAGCM) will be provided.

The following experimentation is suggested:

- 1. Perform idealized AGCM experiment with constant Atlantic Multidecadal Oscillation (AMO) pattern (positive and negative) in the Atlantic region.**
- 2. As 1., but using a simple thermodynamic slab-ocean in the Indo-Pacific region.**
- 3. Participants are strongly encouraged to take motivation from the workshop and to come up with own ideas for experiments with the AGCM that may be guided by the experts in the meeting.**

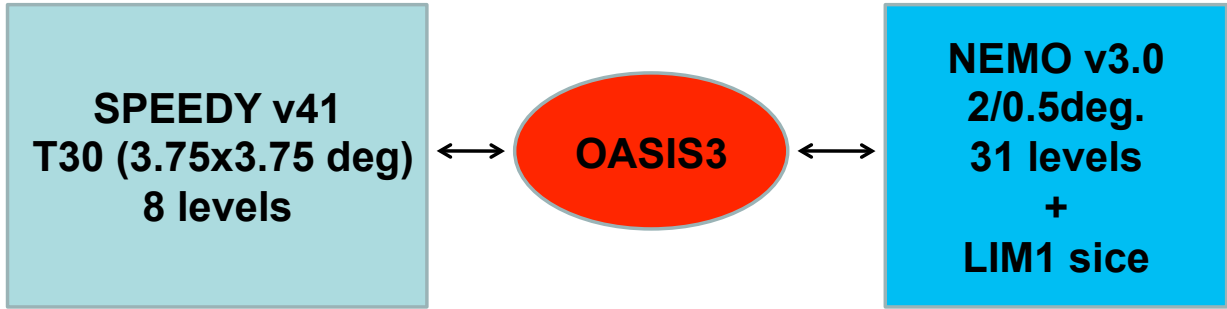


**During the lab, some more lectures on decadal atmosphere-ocean
Coupled variability and on the analysis of predictability in climate models
will be given by Riccardo Farneti and Fred Kucharski**



The SPEEDY-NEMO-LIM coupled model

Atlantic Pacemaker experiments



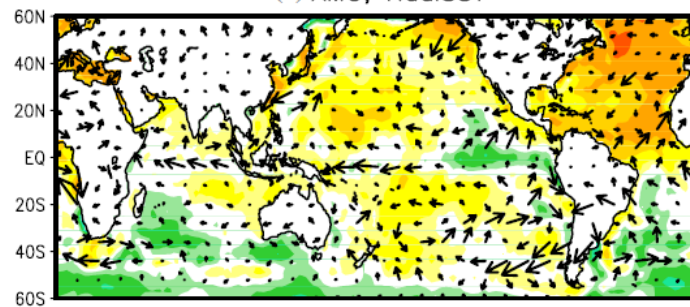
**Pertur. Init.
Cond.**

Ens. generation



Atlantic Pacemaker experiments

(a) AMO, HadISST



(b) AMO, ATL_VAR (SST)

Prescribed
Observed
SSTs in Atlantic

Fully coupled in
Indo-Pacific

