Project:	**Indo-European Research Facilities for Studies on Marine Ecosystem and Climate in India (INDO-MARECLIM).**
Contract:	European Commission FP7 Grant agreement: 295992
Coordinator:	Prof. N.R. Menon, Nansen Environmental Research Centre–India, Kochi, India
Event:	**EU-INDIA INDO-MARECLIM WORKSHOP - II on Monsoon and Ocean Variability, Climate Change & Sea Level Variations**
Time:	11th to 13th November, 2013
Venue:	Bolgatty Palace & Island Resort, Kochi, India.

PROGRAMME:

Monday, November 11th , 2013

9:00 – 9:30: Inaugural Session

- Welcome: Dr. Ajith Joseph, NERCI & Prof. Ola M. Johannessen, Chairman, Steering Committee, INDO-MARECLIM, NERSC, Norway
- EU FP/ INCOLAB INDO-MARECLIM project objectives: Prof.N.R.Menon, Coordinator, INDO-MARECLIM,
  Lasse H. Pettersson, Deputy Coordinator, NERSC, Norway
- Introduction to the Workshop: Prof. P. V. Joseph, NERCI

Topic 1: Role of Indian Ocean in Monsoon variability

Session 1.1: Invited Talks

Chair: Dr. Annalisa Cherchi, CMCC, Italy

9:30 – 10.30 **Monsoon Predictability**
Dr. Andrew Turner, University of Reading, UK

10:30 – 11:00 ---------- Coffee Break ----------

11:00 – 12:00 **Role of External forcings in modulating the Indian summer monsoon rainfall & the Arctic Oscillation & their relationship on interdecadal time scale**
Dr. Yongqi Gao, NERSC, Norway

12:00 – 13:00 **Role of Indian Ocean circulations in monsoon intra-annual variability**
Dr. Takeshi Izumo, IRD/LOCEAN/IPSL, France

13:00 –14.00 ---------- Lunch Break ----------

Session 1.1: Invited talk continues

Chair: Dr. Yonqui Gao, NERSC, Norway

14:00 – 15:00 **Rapid warming of Indian Ocean and teleconnections with tropospheric jet streams**
Prof. P.V. Joseph, NERCI, India

Session 1.2 Short presentations by participants (15 minutes each)

15:00 - 15:15 **Predictability of AISMR and its dependence on lead time using GCM output** - Ankita Singh ,IIT, Bhuvaneswar, India

15:15 – 15:30 **Analysis of aerosols and associated parameters during the drought, normal and flood years of Indian Summer Monsoon** - Litty Thomas, Indian Institute of Remote Sensing, Dehradun, India

15:30 – 16:00 ---------- Coffee Break ----------

Short presentations continues

16:00 – 16:15 **Influence of spring time snow over the Himalayan Tibetan Plateau on the onset and early evolution of Indian Summer Monsoon** - Retish Senan, University of Oslo, Norway

16:15 – 16:30 **Monsoon low-pressure systems over India: A climatology study and high resolution climate sensitivity simulations** - Silje Sorland, Geophysical Institute, Univeristy of Bergen, Norway

16:30 – 16:45 **Simulation skill of APCC set of GCM for Asian summer monsoon variability -** Umesh Singh, Georges Lemaître Centre for Earth and Climate Research , Belgium

16:45 – 17:00 **Variability of Indian summer monsoon from diurnal to inter-annual time scales** - Viju John, UK Met Office

17:00 – 17:30 **Discussion Regarding further collaborative work.**
Chair: Dr. Andrew Turner, Co-Chair: Prof. P. V. Joseph

Tuesday, November 12th , 2013

Topic 2: Rapid Warming of Indian Ocean

Session 2.1: Invited talks

Chair: Prof.Ola M.Johannessen, NERSC,Norway

9:30 –10.30 **Monsoon & Indian Ocean coupled interactions in a warming environment**
Dr. R. Krishnan, IITM, Pune, India

10:30 – 11:00 ---------- Coffee Break ----------

11:-00 – 12:00 **Indian Ocean, Indian summer monsoon and Teleconnections,**
Dr. Annalisa Cherchi, CMCC, Italy

12:00 – 13:00 **Indian Ocean Warming & its impact on Indian monsoon variability**
Dr. Suryachandra Rao, IITM, Pune, India

13:00 – 14.00 ---------- Lunch Break ----------

Session 2.1: Invited talk continues

Chair: Dr. Suryachandra Rao, IITM, Pune

14:00 – 15:00: **Impact of river run off on the Indian Ocean**
Dr. P. N. Vinayachandran, IISC, Bangalore, India.

Session 2.2: Short presentations by participants (15 minutes each)

15:00 – 15:15 **Seasonal Variability of eddy kinetic energy inferred from satellite altimeter data** - Balaguru Balaiah, Anna University, Chennai, India

15:15 – 15:30 **Moisture transport into the Indian monsoon regions using the Lagrangian trajectory model FLEXPART** - Ellen Viste, Geophysical Institute, University of Bergen, Norway

15:30 – 16:00 ---------- Coffee Break ----------

Short presentations continues

16:00 – 16:15 **Atlantic multi-decadal variability and the connection to ISMR** - Lea Svendsen, NERSC, Norway

16:15 – 16:30 **Role of El-Nino La-Nina and Asian summer monsoon on global warming –** Preenu P.N., NIO, Kochi, India

16:30 – 16:45 **Modulation on monsoon intra-seasonal oscillations in the context of recent Indian Ocean Warming** – Sabeerali, IITM, Pune, India

16:45 – 17:00 **Indian Ocean warming and its finger print in the atmosphere** - Satyaban Bishoyi Ratna, CMCC, Italy

17:00 – 17:30 **Discussion regarding future joint work, identification of funding agencies.**
Chair: Prof. Ola M. Johannessen
Co-Chair: Dr. Annalisa Cherchi

Wednesday, November 13th , 2013

Topic 3: Sea level changes in the Indian Ocean

Session 3.1: Invited talks

Chair: Dr. A.S.Unnikrishnan, NIO, Goa

9:30 – 10:30 **Sea level and future potential impact from the Greenland ice sheet**
Prof. Ola M. Johannessen, NERSC, Norway

10:30 – 11:00 ---------- Coffee Break ----------

11:00 – 12:00 **Reconstructing sea level variability along a coast- Contributions from ocean and atmosphere**
Dr. Jan Even Nilsen, NERSC, Norway

12:00 – 13:00 **"Interaction between the Indian Ocean and the Atmosphere during the summer monsoon season"**
Dr. M K Roxy, IITM, Pune, India

13:00 – 14.00 ---------- Lunch Break ----------

Session 3.1: Invited talk continues

Chair: Dr. Jan Even Nilsen, NERSC, Norway

14:00 – 15:00: **Extreme sea level changes**
Dr. A.S. Unnikrishnan, NIO, Goa

15:00 – 15:30 ---------- Coffee Break ----------

15:30 – 16:00: **Discussion regarding future joint work, Identification of funding agencies & Concluding remarks**
Chair: Lasse Pettersson, Co-Chair: Dr. Ajith Joseph.

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