

Sydney ENSO Dynamics Workshop Program

Venue: CCRC Seminar Room (Level 4 Mathews Building, UNSW)

[full talk < 20 min.; flash talk < 5 min.; Excess time is for Q&A+discussions. As we aim for this workshop to be as interactive as possible, all presentations should strive to adhere to the time limit.]

Monday 20/11/2017

09.00-09.30: Registration, refreshments

09.30-09.45: Opening

09.45-11.15: 2015/16 El Nino (Chair: Harry Hendon)

09.45. *Observed characteristics of extreme ENSO events (1950-2017)* | Agus Santoso, UNSW

10.10. *Why was 2015 a strong El Niño and 2014 was not* | Guomin Wang, BOM

10.35. *Distinctive role of ocean advection anomalies in the development of the extreme 2015-16 El Niño* | Esteban Abellan, UNSW

11.00. *Operational perspective on 2015/16 El Nino genesis* (Flash Talk) | Felicity Gamble, BOM

[11.10. Discussions]

Short break (snacks available throughout the meeting)

11.20-12.45: Predictability/teleconnection (Chair: Dietmar Dommenges)

11.20. *Causes and predictability of the negative Indian Ocean dipole and its Impact on La Niña during 2016* | Eunpa Lim, BOM

11.45. *Inter-basin sources for two-year predictability of the multi-year La Niña event in 2010-2012* | Jing-Jia Luo, BOM

12.10. *Understanding the warm water volume precursor for ENSO events and its interdecadal variation* | Sonja Neske, Monash

[12.35. Discussions]

12.45-13.45: Lunch

13.45-15.30: ENSO and Climate Change (Chair: Matt England)

13.45. *Evaluating ENSO-dynamics in CMIP simulations under a climate change scenario* | Asha Vijayeta/Dietmar Dommenges, Monash

14.10. *A potential for La Nina-like climate change in the ENSO Recharge-Oscillator framework* | Dietmar Dommenges, Monash

14.35. *ENSO, ENSO teleconnections and major disruptions to Pacific rainfall in the 21st century* | Scott Power, BOM

15.00. *ENSO under greenhouse warming* | Agus Santoso on behalf of Cai & Guojian

[15.25. Discussions]

15.30-16.00: Afternoon tea

16.00-17.30: Modelling (Chair: Agus Santoso)

16.00. *Effects on ENSO amplitude of different mean-states associated with multi-decadal climate variations* | Harun Rashid, CSIRO

16:25. *Understanding double peaked El Ninos in coupled GCMs* | Neil Holbrook, UTas

16.50. *Oceanic Internal Variability and ENSO* | Ryan Holmes, UNSW

17.15. *ENSO seasonality in CMIP5 and regional rainfall impact (Flash talk)* | Andrea Taschetto, UNSW

[17.25. Discussions]

Dinner@6.15 (walking distance from CCRC)

Tuesday 21/11/2017

09.00-10.45: Heat transport & decadal variability (Chair: Dietmar Dommenget)

09.00. *Role of Pacific trade winds in driving ocean heat uptake on multi-decadal time-scales (Flash talk)* | Matt England, UNSW

09.10. *Model Tropical Atlantic biases underpin diminished Pacific decadal variability* | Shayne McGregor, Monash

09.35. *Interannual Variability of Diathermal Ocean Heat Transport and Ocean Heat Uptake in the Pacific* | Maurice Huguenin, ETH & Ryan Holmes, UNSW

[10.00. Discussions]

10.10. *Does an evolving background mean ocean state alter the link between El Niño and the SAM? (Flash talk)* | Pandora Hope, BOM

10.20. *ENSO influence on global cyclones and anticyclones (Flash talk)* | Acacia Pepler, BOM

10.30. *Multi-year ENSO prediction from UKMO and ACCESS-S1 (Flash talk)* | Hanh Nguyen, BOM

[10.40. Discussions]

10.45-11.15: morning tea

11.15-12.50: Final remarks & summary (Chair: Agus and Harry)

11.15. *Utility of “relative” Nino indices (Flash talk)* | Harry Hendon, BoM

11.25. *Preliminary comparison of multi-dimensional ensemble empirical mode decomposition (MEEMD) and EOF method for ENSO analysis (Flash talk)* | Arnold Sullivan, CSIRO

11.35. Summary from international workshop

12.00. Discussions + synthesising meeting outcomes

[Group photo before lunch]

12.50-17.00: Lunch, followed by further discussions as required