CSC Decadal Prediction Workshop

# NESP Project 2.3 / CSC Decadal Prediction Workshop CSIRO Auditorium

# Day 1 (Monday 14th May)

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| Time | Topic | Speaker |
| 9:45am | Welcome | **Helen Cleugh** |
| 10:00am | **Session 1**: Forecast System Configuration and Data Assimilation **Chair:** **Richard Matear**   EnKF-c *(20 Mins)*   ACCESS –S: S1 Results, Plans for S2, Skill Evaluation *(20 Mins)* | **Pavel Sakov   Oscar Alves** |
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| 10:40am | Morning Tea |  |
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| 11:00am | **Session 1: Continued**  Assimilation System for ACCESS- S2 *(20 Mins)*   Climate Analysis Forecast Ensemble (CAFÉ) System   Design and Future Developments *(20 Mins)*  Coupled Ocean – Atmosphere – Sea Ice Assimilation *(20 Mins)* | **Yonghong Yin   Terry O’Kane   Paul Sandery** |
| 12:00pm | **Session 2: Initialization, Optimal Perturbations and Ensemble   Prediction**  **Chair: Richard Matear**   Stochastically Perturbed Bred Vectors in Multi-Scale   Systems *(20 Mins)*   ENSO Ensemble Forecasting *(20 Mins)* Multi Year Prediction of ENSO *(20 Mins)* | **Brent Giggins  Stacey Osbrough  Jing-Jia Luo** |
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| 1:00pm | Lunch |  |
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| 1:30pm | **Session 3: Model Configurations, land and carbon**  **Chair: Terry O’Kane** ACCESS – CM2 Performance in Climate Simulation *(20 Mins)*   CAFÉ Model Configurations and Biases *(20 Mins)*     The CABLE Land Surface Model in ACCESS *(20 Mins)*  Global Carbon Assimilation System Using a Local Ensemble  Kalman Filter with Multiple Ecosystem Models *(20 Mins)* | **Dave Bi  Matt Chamberlain  Tielo Ziehn**  **Xiaogu Zheng** |
| 2:50pm | **Discussion (40 Minutes)  Lead: Richard Matear** |  |
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| 3:30pm | Afternoon Tea |  |
| **4:00pm** | Session 4: Observations for Climate Forecasting Chair: James Risbey    Ocean Observations for Climate Forecasting and Verification   *(20 Mins)* | **Bernadette Sloyan** |
| **4:20pm** | Discussion Lead: Terry O’Kane |  |
| **5:00pm** | Close |  |
| **7:00pm** | Dinner |  |
| Notes: | | |

# Day 2 (Tuesday 15th May)

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| Time | Topic | Speaker |
| 8:45am | **Housekeeping** |  |
| 9:00am | **Session 5: Verification Metrics and Calibration**     Current Bureau of Meteorology Climate Forecast Products   and their Verification Strategy and Metrics *(20 Mins)*   An Overview of the PyLatte Verification Package and Some   Preliminary Results from CAFÉ System *(20 Mins)*   Statistical Post – Processing of Climate Model Forecasts  *(20 Mins)*   Verification of the Link Between ENSO and Australian   Rainfall in CAFÉ Forecast Ensembles *(20 Mins)*  Should I Have Any Skill or What? : What (not) To Expect   From a Climate Forecast *(20 Mins)* | **William Wang   Dougie Squire   Andrew Schepen  Ian Watterson     James Risbey** |
| 10:40am | Morning Tea |  |
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| 11:00am | **Discussion** |  |
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| 12:30pm | Lunch |  |
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| **1:30pm** | Session 6: Processes and Potential Predictability    Stochastically Forced Multiscale Climate Variability   and Potential Predictability in the Pacific *(20 Mins)*   Normal Mode Decomposition of the Madden   Julian Oscillation *(20 Mins)*   Inter-Decadal Variability and Potential Predictability  in Coupled Climate Models *(20 Mins)* | **Jiale Lou   Vassili Kitsios   Carsten Frederiksen** |
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| **2:30pm** | Afternoon Tea |  |
| **3:00pm** | Potential Predictability and BGC State Estimation *(20 Mins)* ENSO Predictability *(20mins)* | **Richard Matear  Harun Rashid** |
| **3:40pm** | Discussion |  |
| **4:30pm** | Wrap Up & Close |  |
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| Notes: | | |