CSC Decadal Prediction Workshop

# NESP Project 2.3 / CSC Decadal Prediction WorkshopCSIRO 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’KanePaul 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 GigginsStacey OsbroughJing-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 BiMatt ChamberlainTielo 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 ForecastingChair: James Risbey Ocean Observations for Climate Forecasting and Verification  *(20 Mins)* | **Bernadette Sloyan** |
| **4:20pm** | DiscussionLead: 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 WangDougie SquireAndrew SchepenIan 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 LouVassili KitsiosCarstenFrederiksen** |
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| **2:30pm** | Afternoon Tea |  |
| **3:00pm** | Potential Predictability and BGC State Estimation *(20 Mins)*ENSO Predictability *(20mins)* | **Richard MatearHarun Rashid** |
| **3:40pm**  | Discussion |  |
| **4:30pm** | Wrap Up & Close |  |
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| Notes: |