

ACCESS Programme

Conference Venue

Bureau of Meteorology, Level 6, 700 Collins St., Docklands, Victoria.

Tuesday 28 November 2006

ACCESS 2006 BMRC Modelling Workshop

CHAIR: N. Smith

09.00 - 09.10 **N. Smith:** "Welcome and Opening"

09.15 - 09.50 **K. Puri:** "Overview of ACCESS".

Page 1*

10.00 - 10.30

Coffee

30 min

CHAIR: C. Mitchell

10.30 - 11.05 **V. Pope:** "The Hadley Centre climate model HadGEM1"

Page 5

11.15 - 11.50 **J. Dunne:** "Towards Earth System Modelling: Bringing GFDL to life"

Page 13

12.00 - 12.35 **J. Mummery:** "AGO expectations from ACCESS"

12.45 - 14.00

Lunch

1 h 15 min

CHAIR: P. Steinle

14.00 - 14.25 **W. Bourke:** "Overview of Bureau NWP in the Bureau, Nov 2006"

Page 16

14.30 - 15.05 **R. Kershaw:** "Parametrization of atmospheric processes in the Unified Model"

Page 24

15.15 - 15.40 **C. Jakob:** "Challenges in parametrisation development and lessons for ACCESS"

Page 32

15.45 - 16.15

Coffee

30 min

CHAIR: N. Davidson

16.15 - 16.40 **M.J. Uddstrom:** "The Unified Model at NIWA: From climate simulations to NWP"

16.45 - 17.10 **W. Tennant:** "Experience with UM/VAR at the South African Weather Service"

Page 36

17.15 - 19.00

Icebreaker, sponsored by NEC

* Page number in the book of extended abstracts, BMRC Research Reports No. 123, November 2006.

Day 1

ACCESS 2006

BMRC workshop

Wednesday 29 November 2006
ACCESS 2006 BMRC Modelling Workshop

CHAIR: W. Bourke

- | | |
|---------------|---|
| 09.00 – 09.35 | A. Lorenc: "Progress in data assimilation including overview of MetOffice 4DVAR" <i>Page 40</i> |
| 09.45 – 10.10 | P. Steinle: "Challenges in data assimilation and ACCESS plans" <i>Page 45</i> |
| 10.15 – 10.40 | P. Oke: "The BlueLink Ocean Data Assimilation System" <i>Page 48</i> |

| | | |
|---------------|---------------|--------|
| 10.45 – 11.00 | Coffee | 15 min |
|---------------|---------------|--------|

CHAIR: C. Jakob

- | | |
|---------------|--|
| 11.00 – 11.25 | J. Kepert: "Atmospheric Data Assimilation using the Ensemble Kalman Filter at BMRC" <i>Page 52</i> |
| 11.30 – 11.55 | R. Kershaw: "Mesoscale modelling at the MetOffice" <i>Page 57</i> |
| 12.00 – 12.25 | G. Dietachmayer: "Mesoscale modelling at the Bureau" <i>Page 69</i> |
| 12.25 – 12.55 | N. Davidson: "Tropical Cyclone track and intensity prediction" <i>Page 70</i> |

| | | |
|---------------|--------------|-----|
| 13.00 – 14:00 | Lunch | 1 h |
|---------------|--------------|-----|

CHAIR: H. Zhang

- | | |
|---------------|--|
| 14.00 – 14.25 | M. Cope: "Chemical transport modelling for air quality forecasting and policy development: linking to ACCESS" <i>Page 76</i> |
| 14.30 – 15.05 | A. Pitman: "Overview of terrestrial modelling" <i>Page 78</i> |
| 15.15 – 15.40 | Y. Wang: "The CSIRO Atmosphere Biosphere Land Exchange Model and future developments for ACCESS" <i>Page 84</i> |

| | | |
|---------------|---------------|--------|
| 15.45 – 16.00 | Coffee | 15 min |
|---------------|---------------|--------|

CHAIR: H. Hendon

- | | |
|---------------|--|
| 16:00 – 16.25 | O. Alves: "POAMA – Seasonal Prediction including ACCESS plans" <i>Page 88</i> |
| 16.30 – 16.55 | A. Schiller: "The Australian Community Ocean Model (AusCOM)" <i>Page 92</i> |
| 17.00 – 17.30 | G. Brassington: "The BlueLink Project – towards marine forecasting" <i>Page 96</i> |

Thursday 30 November 2006
ACCESS 2006 BMRC Modelling Workshop

CHAIR: M. Naughton

- 09:00 – 09:35 **A. Lorenc:** “Ensemble prediction at the MetOffice”
Page 102
- 09:45 – 10:10 **E. Ebert:** “Proposed strategy for ensemble prediction in
the Bureau of Meteorology”
Page 107

10:15 – 10:30 **Coffee** 15 min

CHAIR: O. Alves

- 10:30 – 10.55 **T. Hirst:** “Coupled modelling within ACCESS: status and
plans”
Page 112
- 11:00 – 11.25 **N. Bindoff:** “Earth Systems Modelling in the University
Sector, contributions to ACCESS”
Page 127
- 11:30 – 11.55 **R. Stone:** “The value of an integrated approach to climate
applications modelling”
Page 160
- 12:00 – 12:25 **M. Reeder:** “University expectations and contributions to
ACCESS”
Page 131

12:30 – 13.45 **Lunch** 1h 15 min

CHAIR: T. Hirst

- 13:45 – 14.10 **L. Chambers:** “Research on Climate Change impacts”
- 14.15 – 14.40 **P. Whetton:** “A new approach to assessing climate model
results for use in regional climate change projections”
Page 114
- 14.45 – 15.10 **J. McGregor:** “Regional Climate Modelling using CCAM”
Page 118
- 15.15 – 15.40 **B. Timbal:** “Statistical Downscaling - an important part of
ACCESS”
Page 123

15.45 – 16.00 **Coffee** 15 min

CHAIR: T. Hirst

- 16.00 – 16.35 **S. Valcke:** “The PRISM software framework and the
OASIS coupler”
Page 132
- 16.45 – 17.10 **A. Craig:** “Overview of CCSM Infrastructure – impli-
cations for ACCESS”
Page 141
- 17.15 – 17.40 **J. Dunne:** “Infrastructure development at GFDL: the
Flexible Modelling System”
Page 142

19.00 Onwards- Workshop Dinner

See map on Page 4

Day 3

ACCESS 2006

BMRC Workshop

Friday 1 December 2006
ACCESS 2006 BMRC Modelling Workshop

CHAIR: K. Puri

| | |
|---------------|---|
| 09:00 – 09:35 | W. Ohfuchi: “The Earth Simulator Project and beyond” Page 145 |
| 09:45 – 10:10 | V. Pope: “The development of HadGEM2” Page 149 |
| 10:15 – 10:40 | P. Tannenbaum: “HPCCC – Future plans in super-computing” Page 157 |

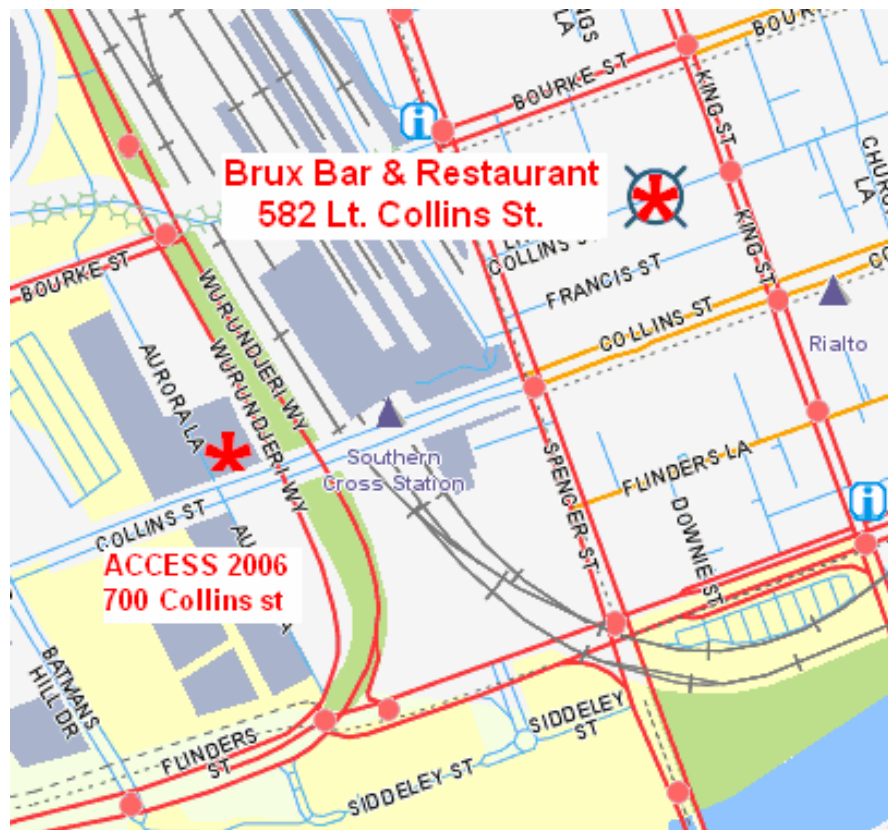
10:45 – 11:00 **Coffee** 15 min

11:00 – 11:25 **N. Smith:** “The BMRC-CSIRO Joint Research Centre”
Page 164

CHAIR: N. Smith

11:30 – 13:00 **Panel Discussion** – Lessons for ACCESS

13:00 Close of Workshop



ACCESS 2006 BMRC Workshop Dinner

19.00 Onwards

Brux Bar and Restaurant, 582 Little Collins Street