



## **Carbon Workshop 18 November 2009: 09:00 – 12:00**

### **At: Managing Climate Change: “Processes, Measurements, Modelling and Mitigation of Greenhouse Gases”**

18 – 20 November 2009 Massey University, Palmerston North

Conveners: Mike Harvey and Sara Mikaloff-Fletcher

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This half-day workshop has been convened to foster research collaboration and information exchange between scientists who have the common interest of refining knowledge of carbon fluxes at continental / national scales. The meeting will be addressed by a range of experts focussing on measurements, budgets, surface fluxes and modelling of the carbon cycle with a focus on the Australia - New Zealand region. We will review progress at various scales which include some larger co-ordinated regional measurement networks. We consider opportunities for data integration in the development of regional-scale models, and advance the discussion of quantitative aspects previewed at the Carbon Workshop held in Wellington [http://www.royalsociety.org.nz/Site/About/Our\\_structure/advisory/igbp/carbon/default.aspx](http://www.royalsociety.org.nz/Site/About/Our_structure/advisory/igbp/carbon/default.aspx) in 2006.

The conveners are grateful to the Royal Society of New Zealand through the International Geosphere-Biosphere (Global Change) Committee for sponsorship that has made this meeting possible. For further information please contact the session conveners.

#### **AGENDA** (ver1.2 1/11/09):

08:50 – 9:00

Introduction

09:00 – 09:20

Regional to national scale validation of greenhouse gas emissions – Overview & UK experience

*Prof. David Fowler, Centre for Ecology and Hydrology, U.K.*

#### **Regional scale measurement from networks**

09:20 – 09:40

Information from long term station records: Baring Head (Global Atmospheric Watch Network)

*Britton Stephens NIWA and NOAA, Boulder*

09:40 – 10:00

Regional scale measurements and the Total Carbon Column Observing Network

*Vanessa Sherlock, NIWA, David Griffith et al. Univ of Wollongong*

10:00 – 10:20 Tea Break

10:20 – 10:40

Ozflux surface flux network and estimating regional scale carbon exchanges

*Ray Leuning, CSIRO Marine and Atmospheric Research, Canberra*

**Science of soil carbon**

10:40 – 11:00

The issues of measuring and modelling soil carbon: A review

*David Whitehead, Landcare Research*

**Data integration and modelling**

11:00 – 11:20

Regional flux estimates & development of Carbon-Tracker Australasia

*Sara Mikaloff-Fletcher, NIWA*

11:20 – 11:40

Integrated modelling of the terrestrial carbon cycle and climate change: why, what for, and how?

*Troy Baisden, GNS*

11:40 – 12:00

Discussion on measurement / model integration

Post-lunch discussion:

Room: AgHort 3 will be available as the venue for any post-lunch follow on discussion for the carbon workshop.