Calperum OzFlux site – Calperum-Chowilla Supersite

Defining landscape options to better manage our landscape resources now, and for the future.

Life Impact  The University of Adelaide
Connecting SA’s ecosystem measures into the national network

**Wayne Meyer**  
Professor, Natural Resource Science  
Wayne.meyer@adelaide.edu.au

Lower Murray Chowilla region measurement supersite
Why Calperum - Chowilla?

- Typical southern Australian Eucalypt vegetation association on sandy calcareous soils
- Has value as stand alone site to complement national coverage of quantifying terrestrial fluxes
- Increased value as co-investment makes linkage into the MDB icon site of Chowilla floodplains
- Research questions:
  - Quantification of energy, carbon, water and nutrient fluxes?
  - Size and value of interdependence and exchange between rain dependant, floodplain and river ecosystems?
  - Rate and size of ecosystem response to management – grazing, revegetation, flooding, flow regimes?
People

- Wayne Meyer (UA)
- David Chittleborough (UA)
- Tim Lubcke
- Peter Cale and Grant Whiteman (Aust. Landscape Trust)
- Regional NRM Board (Hugo Hopton)
- SA Govt. agencies (DENR and DfW)

With changes in water, land and biodiversity management, is it possible to restore and maintain ecosystem services and if so, with what compromises and at what cost?
Landscape Futures Program

Slide 7
Net radiant energy and ground heat flux
4 April 2011

Ambient and soil temperature
4 April 2011
Landscape Futures Program

Net SRad  Net LRad  NET Tot

Landscape Futures Program

- Eto PG derived
- Eto PM48
- Eto PG with guestamation of veg coefficient

Life Impact The University of Adelaide
Energy closure