

# AdaptNet for 13 February 2007

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1. Fire-Weather Risk and Climate Change: South-East Australia
2. London's Transport System Adapts to Climate Change
3. Climate Changes Adaptations for Sustainable Livelihoods
4. Adaptation Finance, Aviation Emissions and IATAL
5. Water Resources in India and Climate Constraints
6. Adaptation Strategies and the Trade-Offs Approach in Philippines

## 1. Fire-Weather Risk and Climate Change: South-East Australia

The study, a significant methodological improvement on earlier fire risk assessments, provides an indication of fire risk in South-East Australia by using Forest Fire Danger Index (FFDI) and Grassland Fire Danger Index (GFDI). It assesses potential changes to fire-weather risk factors associated with climate change including: fuels, terrain, land management, suppression and weather.

[Climate Change Impacts on Fire-Weather in South-East Australia](#), Kevin Hennessy et al, CSIRO Marine and Atmospheric Research, Bushfire CRC and Australian Bureau of Meteorology, December 2005 [PDF]

## 2. London's Transport System Adapts to Climate Change

The paper describes some of the challenges faced by London's transport systems that will be intensified by climate change. It explains what is already being done to address them, and what still remains to be done. The report considers the impacts of climate change on transport infrastructure and users by giving four case studies and outlines how to plan ahead to adapt to these impacts.

[Climate Change and London's Transport Systems-Summary Report](#), London Climate Change

Partnership, Greater London Authority, September 2005 [PDF]

### **3. Climate Change Adaptations for Sustainable Livelihoods**

The paper reviews literature on monsoon climate variability and consequent adaptations. It also looks at the implications of such adaptive systems for sustainable livelihoods. It discusses the economic aspects of climate change, damage estimates for a doubling of atmospheric carbon dioxide concentration and strategies for responding to climate change.

[Societal Adaptation to Abrupt Climate Change and Monsoon Variability: Implications for Sustainable Livelihoods of Rural Communities](#), Neha Pandey, Winrock International-India, New Delhi, June 2006, [PDF]

### **4. Adaptation Finance, Aviation Emissions and IATAL**

The paper highlights political advantages and moral reasons to link together the problems of adaptation finance and aviation emissions. It proposes an International Air Travel Adaptation Levy (IATAL) or an emissions trading scheme with auction revenues hypothecated for adaptation as an ethically, economically and politically attractive solution.

[IATAL — An Outline Proposal for an International Air Travel Adaptation Levy](#), Benito Müller and Cameron Hepburn, Oxford Institute for Energy Studies, EV 36, October 2006 [PDF]

### **5. Water Resources in India and Climate Constraints**

The article examines the potential for sustainable development of surface water and groundwater resources within the constraints imposed by climate change in India, as well as future research needs. It summarizes vulnerability issues associated with the present and potential future hydrological responses due to climate change and highlights areas for further research.

[Water Resources and Climate Change: An Indian Perspective](#), R. K. Mall et al, Current Science, Volume 90, No. 12, June 2006 [PDF]

### **6. Adaptation Strategies and the Trade-Offs Approach in Philippines**

The paper conducts a cross-sectoral analysis of recommended adaptation strategies to determine potential synergies and conflicts and identifies “best bet” and “win-win” adaptation strategies. Focusing on a Philippines watershed, it examines adaptation strategies for three sectors: forest / upland agriculture, water resources, and local communities.

[Tradeoff Analysis of Adaptation Strategies for Natural Resources, Water Resources, and Local Institutions in the Philippines](#), Rodel Lasco et al, Assessments of Impacts and Adaptations to Climate Change (AIACC) Working Paper No. 32, June 2006 [PDF]

## **Subscription information**

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