

Résumé of Dr Lynda Chambers

PROFESSIONAL EXPERIENCE: Employed as a climate scientist by the Bureau of Meteorology since 1993. Recently appointed leader of the Climate Impacts Subgroup within the Climate Forecasting Group of the Bureau of Meteorology Research Centre. Project leader for an AGO funded project for the development of a National ecological metadatabase for Australia for the detection and monitoring of climate change impacts on ecosystems – including those naturally occurring and agricultural systems. Promotion of Australia's involvement in IPCC climate change impacts and dedication to filling gaps in IPCC TAR and Contributing Author to 4AR. Key researcher for detailed climate analysis and prediction for south-west Western Australia; analysis of climate variability and trends in South Australia; analysis of climate change and variability impacts on wildlife; analysis of Australian and southern hemisphere climate extremes (including APN workshops); bushfire research – seasonal prediction and development of a comprehensive database of Australian fire history; Provision of scientific advice of a climatological, statistical and environmental nature, internal and external to the Bureau, including government policy documents; development and implementation of an operational system for prediction of breeding start date for Little Penguins, used by Phillip Island Nature Park research managers; expert advice cloud seeding feasibility study for Western Australia. Previously I was involved in the development of an operational (statistical) seasonal rainfall prediction system for Australia. This system is used operationally by the Bureau of Meteorology and is also the basis for seasonal forecasting in Fiji, Indonesia and has been exported to other regions of the South Pacific. Prior to joining the Bureau I was an Experimental Scientist with CSIRO (then Division of Atmospheric Research) and Research Assistant/Tutor with the Department of Statistics at LaTrobe University.

EDUCATIONAL EXPERIENCE: MSc (Statistics), PhD (Zoology), Graduate Certificate of Management. Also an Accredited Statistician and Member of the Statistical Society of Australia. In addition, I have been involved in educating others through numerous public seminars on climate change impacts and media interviews (including New Scientist, The Age, Canberra Times and morning and drive-time radio) and as a lecturer at the ARCNESS Winter School.

VOLUNTEER EXPERIENCE: Volunteer work with the Phillip Island Nature Park since 1989. Have also held volunteer positions within the Statistical Society of Australia, the Board of Studies (LaTrobe University), the Wildlife Care Network (group of native wildlife shelters), as editor of the Victorian Ornithological Research Group, as a Bureau Emergency Warden, social committees at BoM, and as a founding member of Women in BMRC (development of women in science in the Bureau).

TRAVEL EXPERIENCE: I have been fortunate to have numerous visits, both for work and pleasure, to many locations. Work related travel experiences include a visit to the IRI (New York), Cape Town (South Africa – climate change impact on wildlife discussions with the University of Cape Town), Technical University of Munich (Germany – phenology discussions), meeting of International Phenology Commission (Germany, 2005), New Zealand (numerous conferences)

SELECTED REFEREED PUBLICATIONS:

Chambers, L.E., Loyn, R.H. 2006. Local abundance of waterbirds: The influence of climate. *Int. J. Biometeorology* 50: 292- 304.

Chambers, L.E. 2006. Associations between climate change and species in Australia. *BAMS* 87(2): 201-206.

Chambers, L.E., Hughes, L., and Weston, M.A. 2005. Climate Change and its impact on Australia's avifauna. *Emu* 105:1-20.

Chambers, L.E. 2005. Migration dates at Eyre Bird Observatory: Links with climate change? *Climate Research* 29:157-165.

Chambers, L.E., Cullen, M.J., Coutin, P.C., Dann, P. 2005. Ocean temperatures and onset of Little Penguin breeding. *NZ Journal of Zoology* 32: 263-271.

Dann, P., Carron, M., Chambers, B., Chambers L., Dornom, T., McLaughlin, A., Sharp, B., Talmage, M.E., Thoday, R., and Unthank, S. 2005. Longevity in Little Penguins *Eudyptula minor*. *Marine Ornithology* 33:71-72

- Griffiths, G.M., Chambers, L.E., Haylock, M.R., Manton, M.J., Nicholls, N., et al. 2005. Change in mean temperature as a predictor of extreme temperature change in the Asia-Pacific region. *Int.J.Climatol.* 25: 1301-1330.
- Nicholls, N., Baek, H.-J., Gosai, A., Chambers, L.E., et al. 2005. The El Nino – Southern Oscillation and daily temperature extremes in east Asia and the west Pacific. *Geophysical Research Letters* 32: L16714.
- Li, F., Chambers, L.E., Nicholls, N. 2005. Relationship between rainfall in the southwest of Western Australia and near-global patterns of sea surface temperature and mean sea level pressure variability. *Aust. Met. Mag.* 54:23-33.
- Yang, H.C., Chambers, L. and R.M. Huggins. 2005. A seasonal decomposition of the estimated size of a penguin population at Phillip Island, Australia. *Australian Journal of Zoology* 53:111-115.
- Page, C. M., Nicholls, N., Plummer, N., Trewin, B. C., Manton, M.J., Alexander, L., Chambers, L.E., Choi, Y., Collins, D.A., Gosai, A., Della-Marta, P., Haylock, M. R., Inape, K., Laurent, V., Maitrepierre, L., Makmur, E.E.P., Nakamigawa H., Ouprasitwong, N., McGree, S., Pahalad, J., Salinger, M.J., Tibig, L., Tran, T.D., Vediapan K., and Zhai, P., 2004. Data rescue in the South-east Asia and South Pacific region: Challenges and Opportunities. *Bull. Amer. Meteor. Soc.*, 85(10):1483-1489.
- Chambers, L.E. 2004. Delayed breeding in Little Penguins – Evidence of climate change? *Aust. Met. Mag.*,53:13-19.
- Chambers, L.E. 2001. Classifying rainfall districts: a south Western Australian study. *Aust. Met. Mag.* 50:91-103.
- Drosowsky, W., Chambers, L.E. 2001. Near global sea surface temperature anomalies as predictors of Australian seasonal rainfall, *J. Climate* 14:1677-1687.
- Frederiksen, C.S., Zhang, H., Balgovind, R., Nicholls, N., Drosowsky, W., Chambers, L.E. 2001. Dynamical seasonal forecasts during the 1997/98 ENSO using persisted SSTAs. *J. Climate* 14:2675-2695.
- Manton, M.J., Della-Marta, P.M., Haylock, M.R., Chambers, L.E., et al. 2001. Trends in extreme daily rainfall and temperature in southeast Asia and the South Pacific: 1961-1998. *Int. J. Climatology* 21:269-284.