Adapt Between The Flags – Enhancing the capacity of Surf Life Saving to cope with extreme weather and climate change

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Background

This research project seeks to elicit the vulnerabilities, adaptation options and adaptive capacity (Smit & Wandel, 2006) of Surf Life Saving operations and vulnerable assets under extreme weather and climate change. At the same time it aims to understand the role of Surf Life Saving clubs in reducing coastal hazard risks to coastal communities.

Surf Life Saving Australia (SLSA) has assets and facilities exposed to extreme weather, including 310 separately incorporated local surf life saving clubs (SLSCs) and more than 150,000 trained volunteers delivering services on the coastline. SLSA recognizes that the challenge posed by climate change is significant and that individual clubs will bear the brunt of associated impacts. In response, SLSA has developed a high level strategy to help the organisation adapt to climate change (Elrick et al., 2010). The strategy reviewed the vulnerabilities of SLSA and of specific SLSC facilities and infrastructure around the Australian coast and also highlighted the need to act on climate change issues as an organisation.

Approach

Drawing on the outcomes of Elrick et al., (2010) and using a case study approach, we apply advanced techniques for stakeholder consultation. Specifically, combine Systems Thinking (Sterman 2000; Ison 2010) and Bayesian Modelling techniques (Charniak 1991; Castelletti & Soncini-Sessa, 2007) to identify adaptive responses to climatic stresses and understand the determinants of adaptive capacity (Richards et al., 2011).

The project case studies areCurrumbin SLSC, Gold Coast, Queensland; Cudgen Headland SLSC, Tweed Shire, New South Wales; Ulverstone SLSC, northern Tasmania; and SLSA (national level).

A series of participatory workshops, involving surf lifesavers, lifeguards, local council and community representatives will be run between April and October, 2012. These workshops will be focusing on asset management, lifesaving operations and the role of local clubs in increasing community resilience.

This presentation will focus on the implications of extreme weather and climate change on lifesaving operations to prevent drowning deaths. Preliminary results of the research are presented for discussion.

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References


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