

INTEREST STATEMENT FOR WAS*IS

David Johnston, GNS Science

This document outlines my interest in the WAS*IS workshop, and its overall goal of better integrating social science with weather forecasts.

My research is focussed on reducing the vulnerability of society, economy and infrastructure to hazards. I have been involved in projects developing integrated risk management strategies for many different hazard events, using techniques such as scenario development, mitigation planning and community education programmes.

While my interest covers many hazards types I have also had a great deal of experience looking at the social implications of weather-related hazards. Some of the projects I have been involved in include:-

- Investigating the impacts of the 2004 storm and flood events in the lower North Island of New Zealand and the Bay of Plenty, NZ (including physical, social and economic impacts, preparedness and warning systems);
- Investigating preparedness and response to warning systems along the Waikanae River, New Zealand. The survey for this research included questions about weather forecasts and how residents use weather forecasts;
- Investigating preparedness for flooding in New South Wales Australia with a view to improving flood education and response to warning systems;
- Testing of a proposed Flood Alert System in Northland, New Zealand;
- Public response to wether warnings in 2002, 2004 and 2005 in the North Island New Zealand.
- General community resilience work – i.e. investigating what personal, community and institutional factors contribute to creating a resilient community and how these can be applied in reality.

Currently we are also testing a warning model (the Flood Alert Scale) in Northland New Zealand. The Scale has a range from 0 to 5, and links information about weather and flood levels to actions that residents should be undertaking (e.g. moving animals, evacuating, etc). The WAS*IS forum would be an excellent place to undertake discussion around the range of potential methods (such as a Flood Alert Scale) that could help to integrate weather and social information.

In summary, I am interested in integrating science with social science, to create more resilient communities. The WAS*IS workshop will allow an excellent forum to advance this thinking with respect to weather related hazards.