# Ensemble Modelling

The main goals of this project are to create a risk hazard map from the model ensemble dataset. This involves assigning a risk level to regions of New Zealand based on pre-defined thresholds for a variety of variables including temperature, wind and rainfall.

The risk levels are “low”, “medium”, “high” or “none, and are assigned for each day of the week for all the regions of the country.

# Goals:

1. Get access to model output data (This is advantageous for the lightning sferics also).
2. Convert model native model output to .netCDF format (See Stuarts Python Library).
3. Obtain the geometries for the regions of New Zealand (to assign a risk within those regions).
4. Assign a risk category for each individual region.

# Action Points:

* Neelesh to talk (email) to Nico about shape files
* Thinks that could be the most difficult part (shape files)
* Will test things out using a grid point(s)
* This will help scope things out