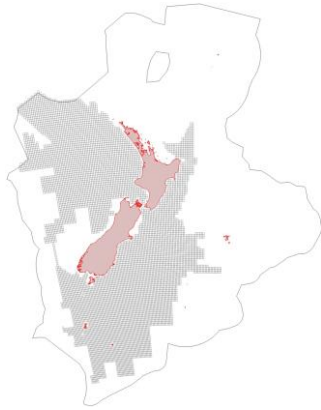




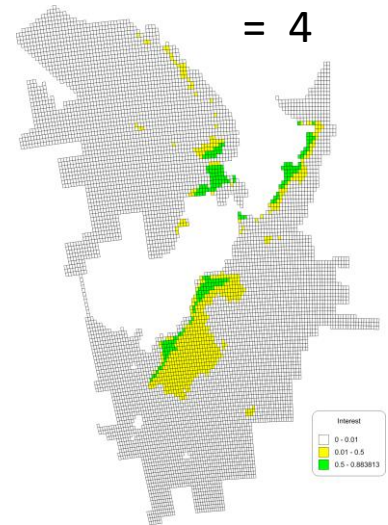
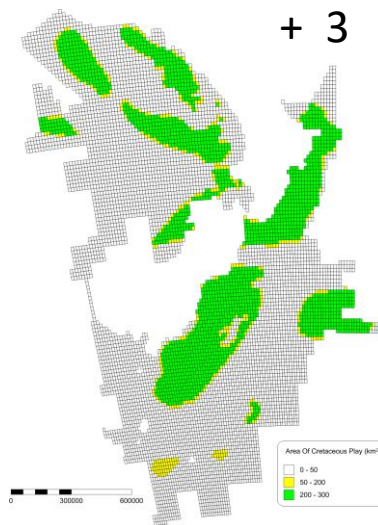
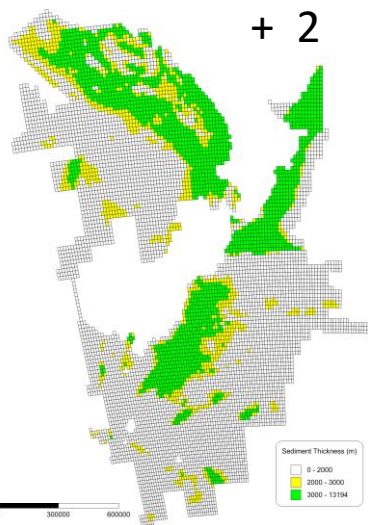
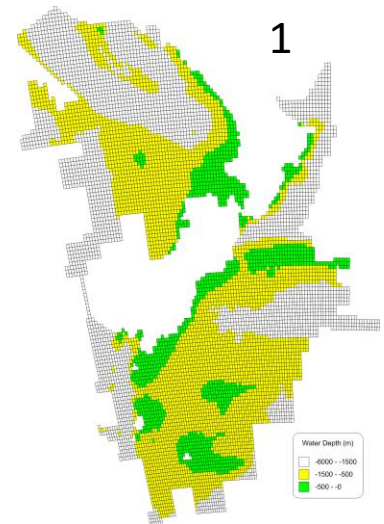
# Block Ranking Database – New Zealand



Calderdale Geoscience (CGL), a UK-based geosciences consultancy established in 2004, believes that analyzing and ranking open acreage at the block scale is an important part of preliminary license round work. However, designing an objective methodology can be difficult and time-consuming; and the ranking process often proceeds on 'gut-feel' rather than on the basis of objective criteria. In order to facilitate objective ranking of blocks on the New Zealand offshore, CGL has compiled a database of 'block attributes'.

## Technical Work:

Block attributes can be calculated from any spatial data such as areas, lines, points and grids. In the example shown here, three attributes are used to produce a ranking: average water depth per block (1) is calculated from a bathymetry grid; total sediment thickness (2) is calculated from a grid; 'Cretaceous play area per block' (3) is calculated from a set of digitised play polygons. The colour scheme is set to represent the 'degree of interest' given the score on a particular attribute, with, in this case, **green** representing 'higher interest', **yellow** more marginal interest, and white no interest. Adding 1, 2 and 3 in a 'probabilistic' way results in a map like 4 which can be used to score and rank the blocks.



## Available Tables:

CGL currently has a database of many attributes, including those illustrated above, which are based on public data provided by New Zealand Petroleum & Minerals. In addition, block attributes can be calculated for almost any combination of spatial tables and CGL will provide this bespoke service if requested. CGL can provide attribute tables as .shp files and .xls files or personal databases (.mdb).

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