School of Surveying Te Kura Kairūri

Lunchtime Seminar Series

UNIVERSITY of OTAGO
SAPERE AUDE
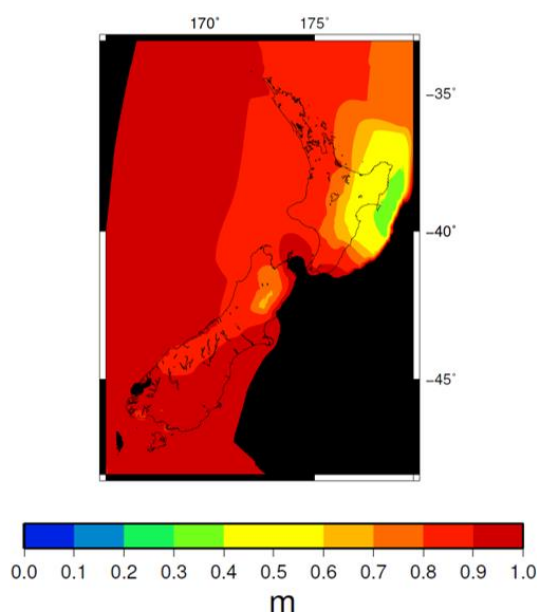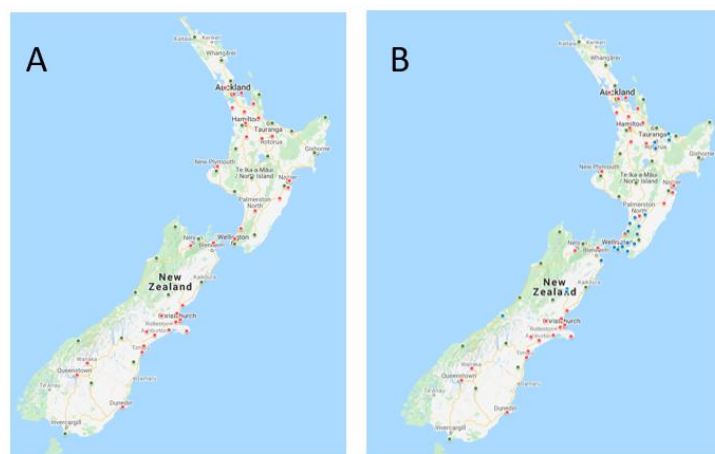Te Whare Wānanga o Otāgo
NEW ZEALAND

Getting Trimble VRSnow and RTX coordinates on the same page as NZGD2000

Dr. Chris Pearson, School of Surveying

Difference VRS coordinates and NZGD2000

Correction points for Pivot

Until recently Trimble VRSnow and RTX coordinates were consistent but as far as most users are concerned, consistently wrong. Both systems are in slightly different versions of the ITRF2014 frame which is nearly 1m from NZGD2000. As a result, users have had to apply site calibrations to approximately correct between the frames, which is obviously not ideal.

In this talk I discuss changes to Trimble's software that were developed with the School of Surveying which remove this difference and allow RTX and VRS to be combined seamlessly. It also has applications globally with Canada, the US, the Nordic countries, Iceland, Brazil, Japan and Korea also supported now. While this makes life easier for surveyors, the most important implications are for situations like Ag, vehicle navigation and machine guidance where site calibrations are not easy to use.