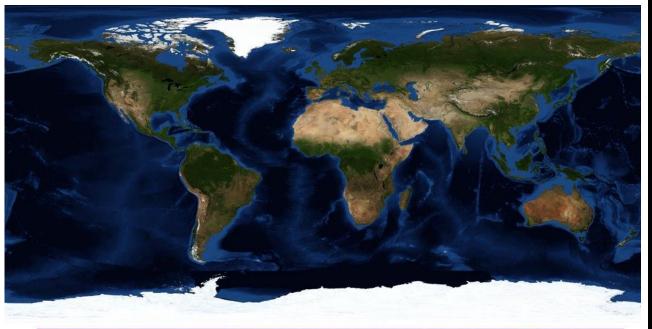


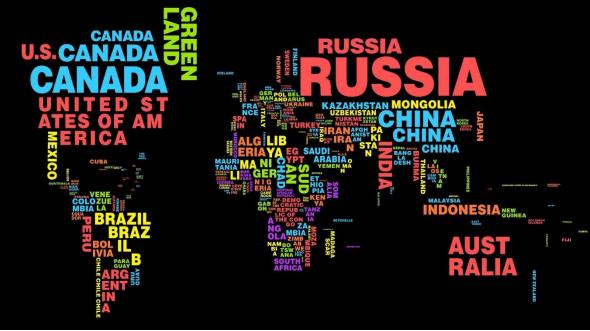
A Pacific Perspective

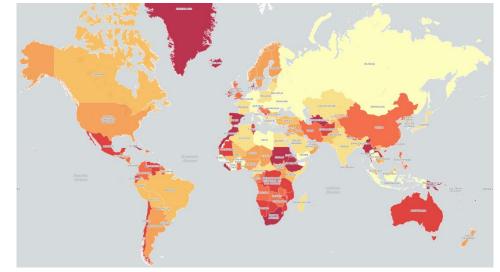
Kevin Mackay SDB Day 2022



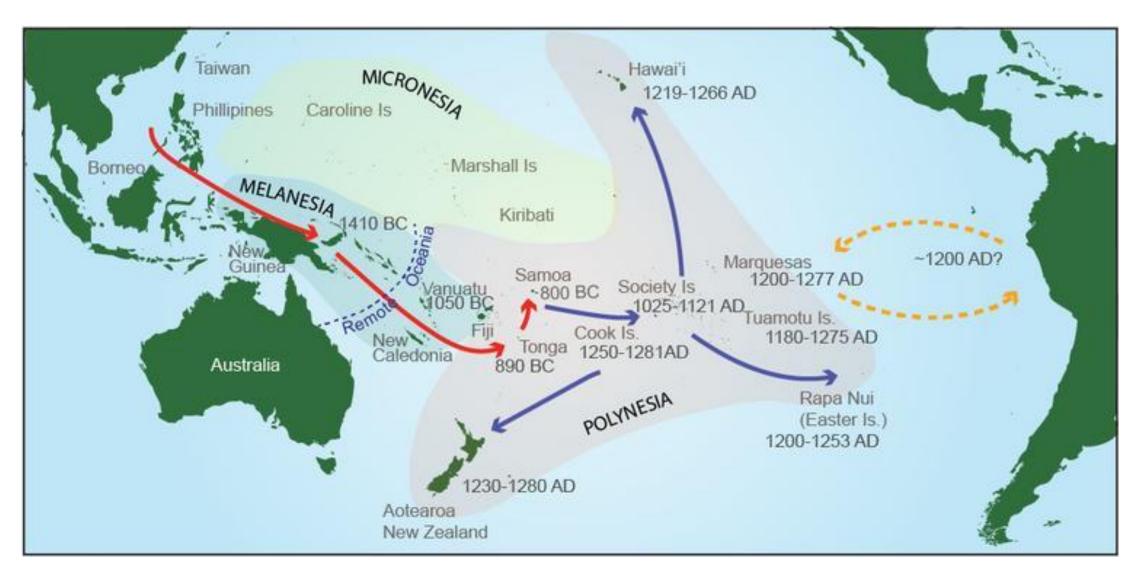
















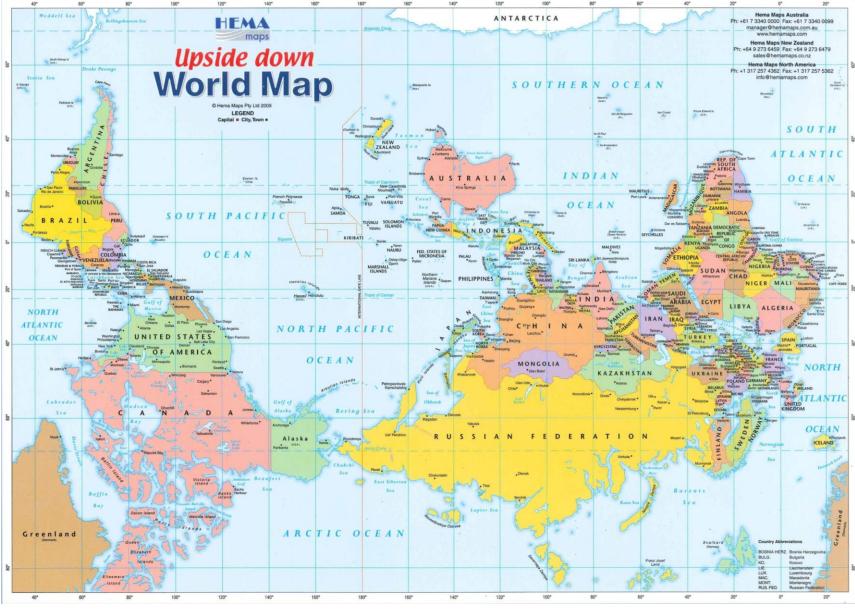




North is Up?

Egyptian astronomer • Ptolemy (90-168 AD)







Indigenous knowledge

- Concerns about indigenous voices not being listened to
- Ability of Pacific states to manage their data
- Issues around Data Sovereignty

"Data from us, and about us and our resources, are valuable assets. Once control of it is lost, it is difficult to regain; Data can be powerful mechanisms for informing and driving indigenous development at national and local levels but only if we are able to exercise authority over our data."





DATA ABOUT US AS INDIVIDUALS

Administrative, legal, health, social, commercial, corporate, services, etc.

DATA ABOUT US AS NATIONS

Traditional and cultural information, archives, oral histories, literature, ancestral and clan knowledge, stories, belongings, etc.



Overview of data sovereignity:

- Indigenous rights movement
- > Indigenous Data Sovereignty (IDS) perceives data as subject to the laws of the nation from which it is collected...
- IDS aims to ensure Indigenous Communities are the primary beneficiaries of their data lands, people, resources (International Indigenous Data Sovereignty Network)
- ➢ Working Group within the UN
- Convention of Biological Diversity (1993)
- The Mataatua Declaration (1993)
- UN Declaration on the Rights of Indigenous Peoples (2010)
- Nagoya Protocol

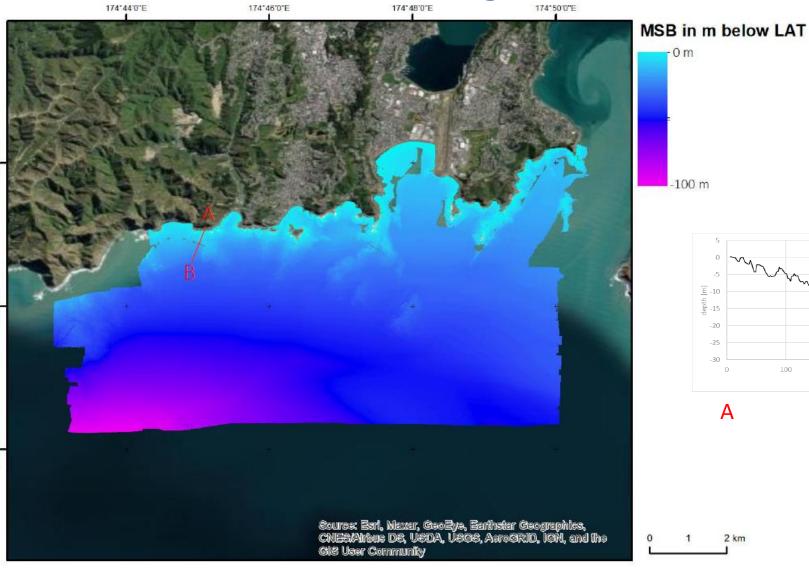


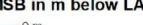
SDB Use Cases

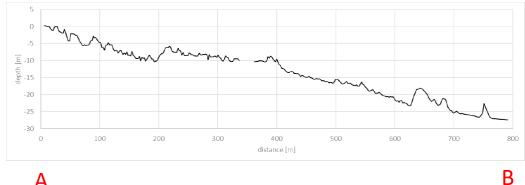
- Wellington Storm surge warning
- Auckland fine-scale tidal modelling
- Tonga volcanic eruption
- New Zealand's turbid waters



Wellington South Coast

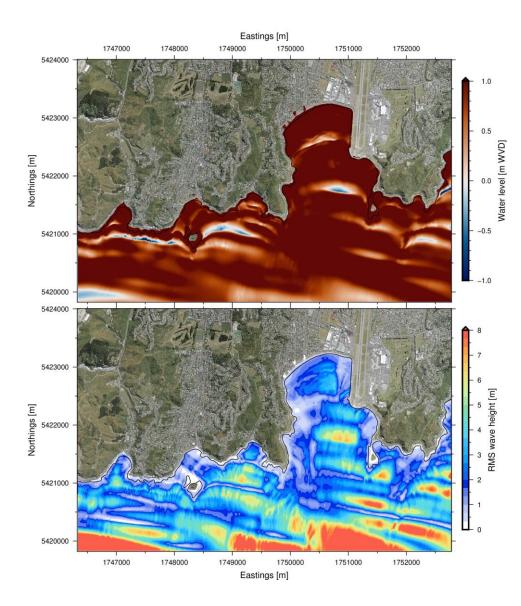






2 km







1] 107

Wellington City Council 🤣 @WgtnCC · Jun 29

17

Wellington City Council 🤣 @WgtnCC · Jun 29

South Coast - as they did in April 2020 and in 2013.

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The emergency declaration is to allow for the pre-emptive evacuation of these properties in Breaker Bay that are expected to take the brunt of the Southerly swell and storm expected at high tide tonight (around 9pm).

Mayor Foster says advice from the @MetService and @niwa_nz in the past few hours indicates that southerly swells of 6 metres or more could present a significant risk to life and property if they overtop areas alongside the

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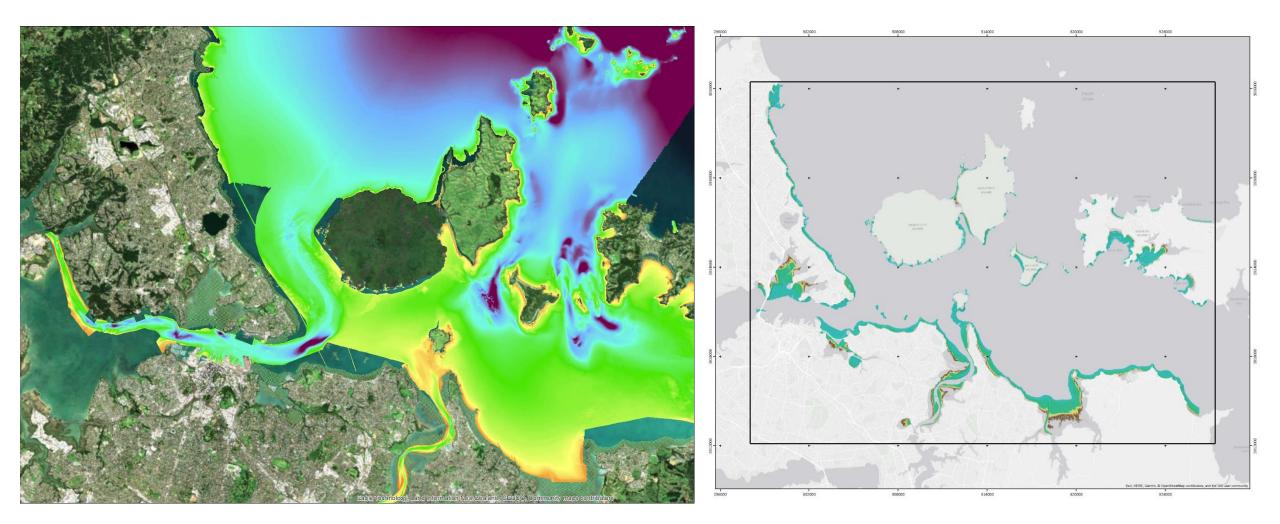
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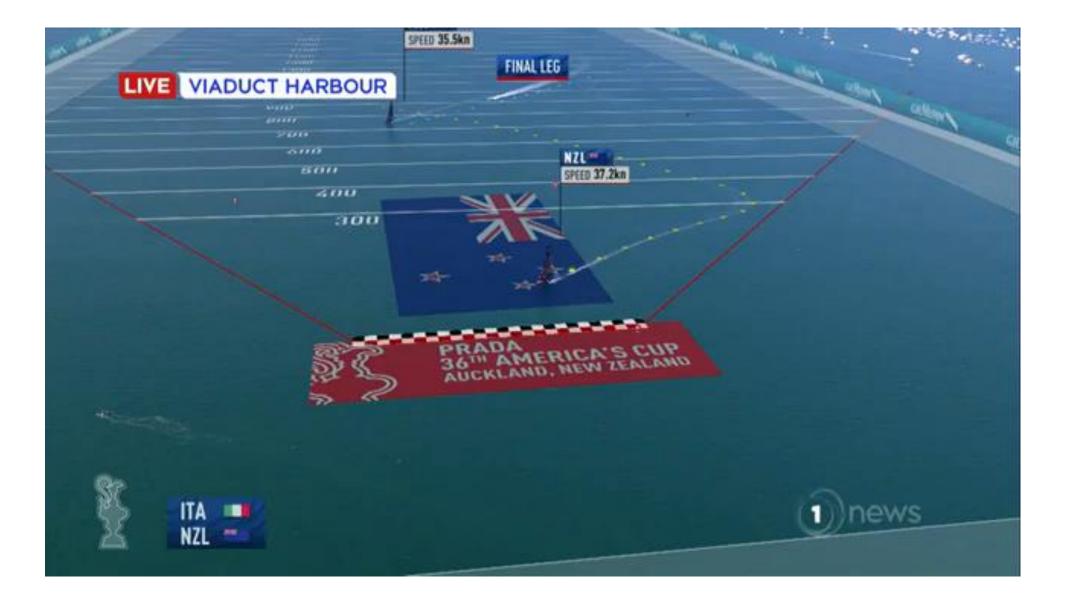




Auckland – Waitemata Harbour











Tonga volcano eruption

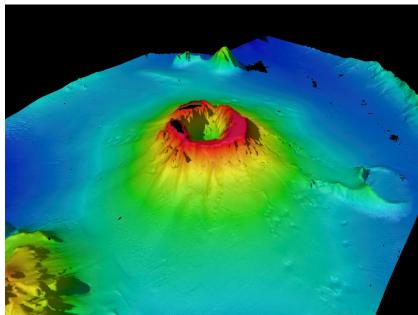


Kingdom of Tonga receives high-tech data from New Zealand



The New Zealand High Commissioner in Tonga HE Ms Tiffany Babington has today delivered a massive thirty thousand gigabytes of data featuring never-beforeseen images of the undersea world around Tonga to the Tongan Government.

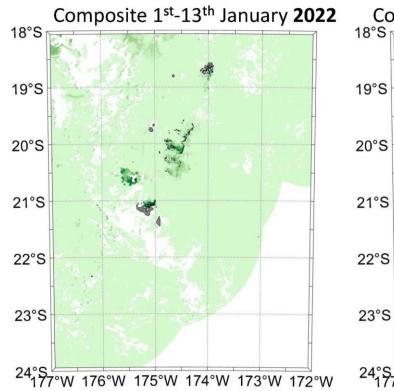


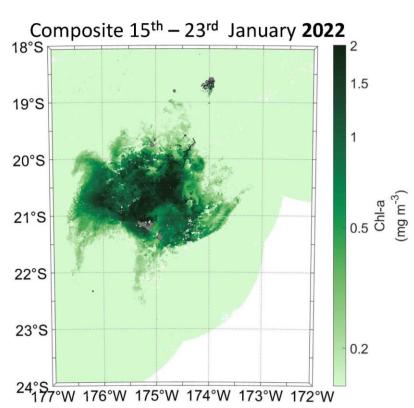




Taihoro Nukurangi

WA







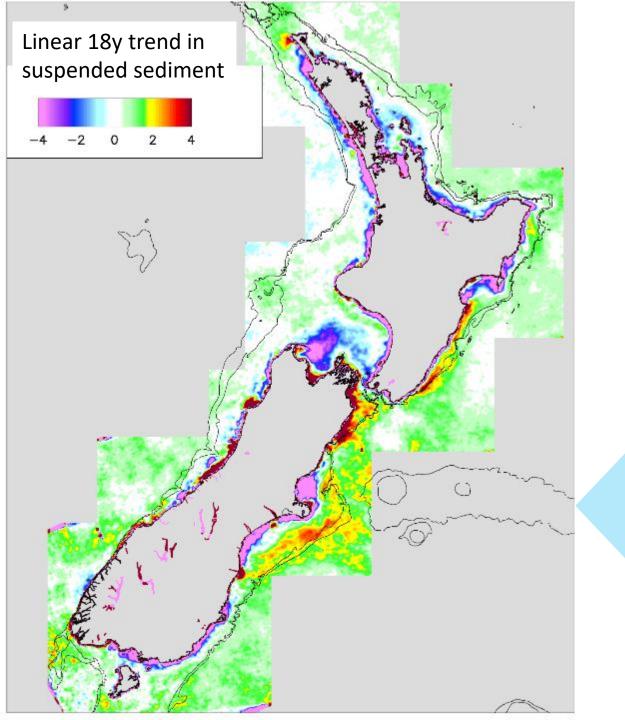


New Zealand's turbid waters









Linear trends in suspended sediment concentration

- July 2002 September 2020
- Monthly anomalies (de-seasonalized)
- Sen slope (linear trend magnitudes)
- Mann-Kendall trend significance (linear trend)
- Correction for autocorrelation
- McBride trend significance also calculated

Pinks/blue = decreasing trends Red/yellow = increasing trends Green/white = no trends



Nau te rourou, naku te rourou, ka ora te iwi

With your basket, and my basket, the people will prosper.





