WMO-OGC Workshop: GroundWaterML2 standard - 10 March 2022





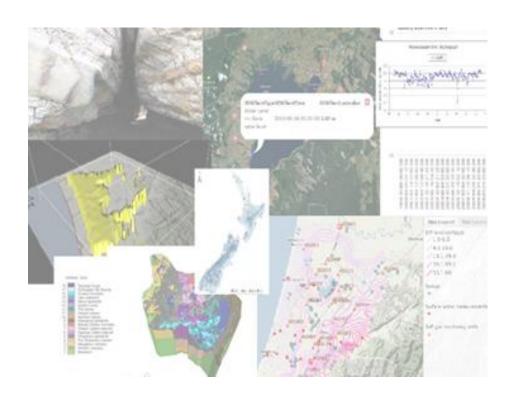




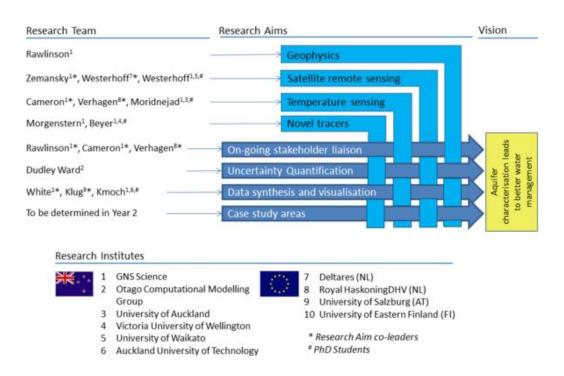


A CONTEXT-BASED GROUNDWATER DATA INFRASTRUCTURE

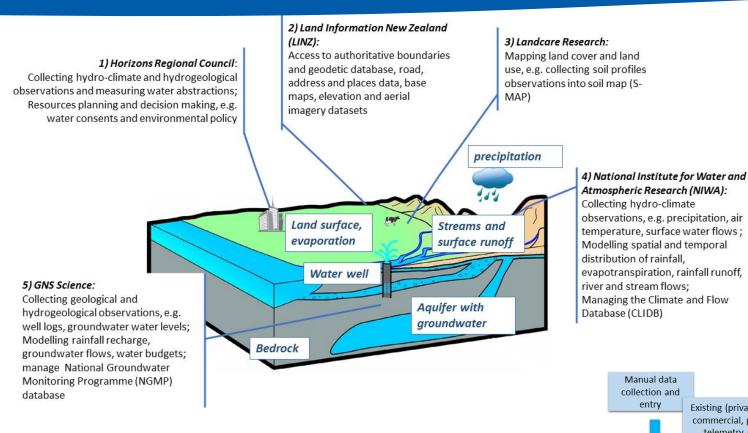
ALEXANDER KMOCH



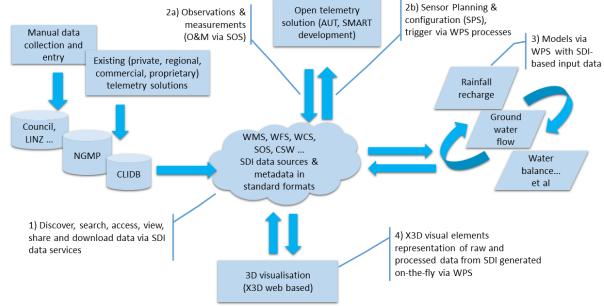
http://hdl.handle.net/10292/10740

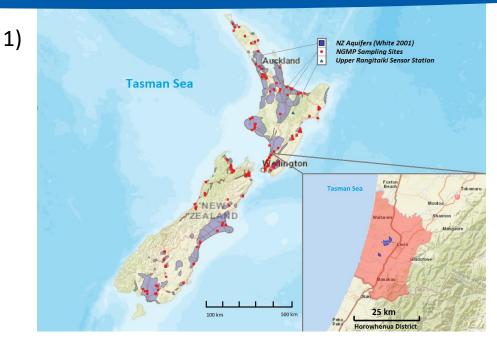


https://www.gns.cri.nz/Home/Our-Science/Environment-and-Climate/Groundwater/Research-Programmes/National-Groundwater-Monitoring-Programme-NGMP



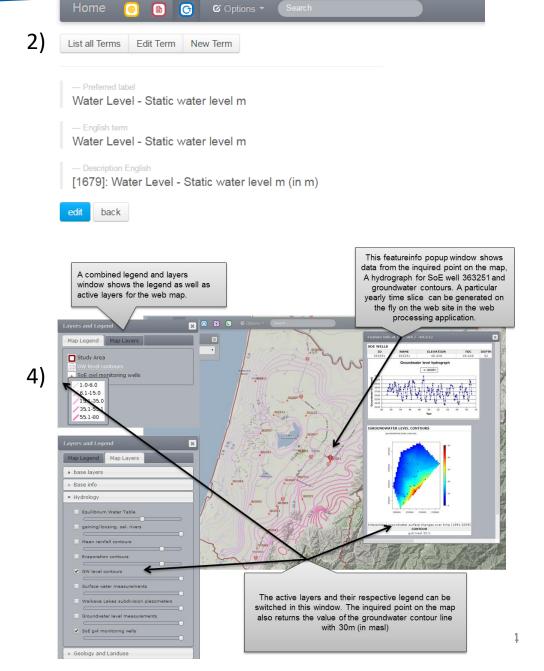
Collecting hydro-climate observations, e.g. precipitation, air temperature, surface water flows; Modelling spatial and temporal distribution of rainfall, evapotranspiration, rainfall runoff, river and stream flows; Managing the Climate and Flow Database (CLIDB)



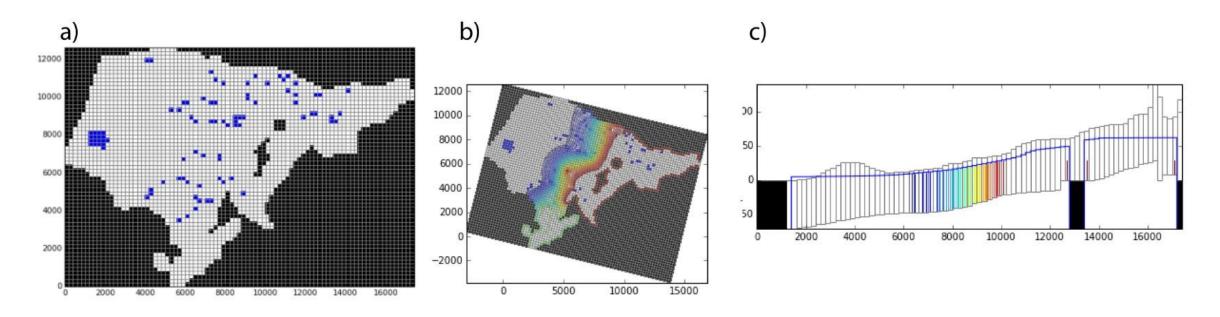




measurements



GWML2 and Modflow



USGS MODFLOW model grid generated from *gwml2:GW_ManagmentArea*; active cells inside the area of interest in white; inactive model cells outside of the area in black; with boundary conditions observation data from *gwml2:GW_Wells* (blue). The management zone is part of the Horowhenua district in the south-western part of the North Island, New Zealand. The depicted area is approx. 12km x 16km

Modflow, Flopy, Python: https://www.usgs.gov/software/flopy-python-package-creating-running-and-post-processing-modflow-based-models

Data access at GNS Science, New Zealand

• https://ggw.gns.cri.nz

• https://ggw.gns.cri.nz/ggwdata/map.jsp



NGMP GGW

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Thank you!









