

GNSS Real-Time Data Sharing in the Asia-Pacific Region

Dr John Dawson, Vice-Chair WG1, Geoscience Australia

November 2020

Why Real-Time GNSS

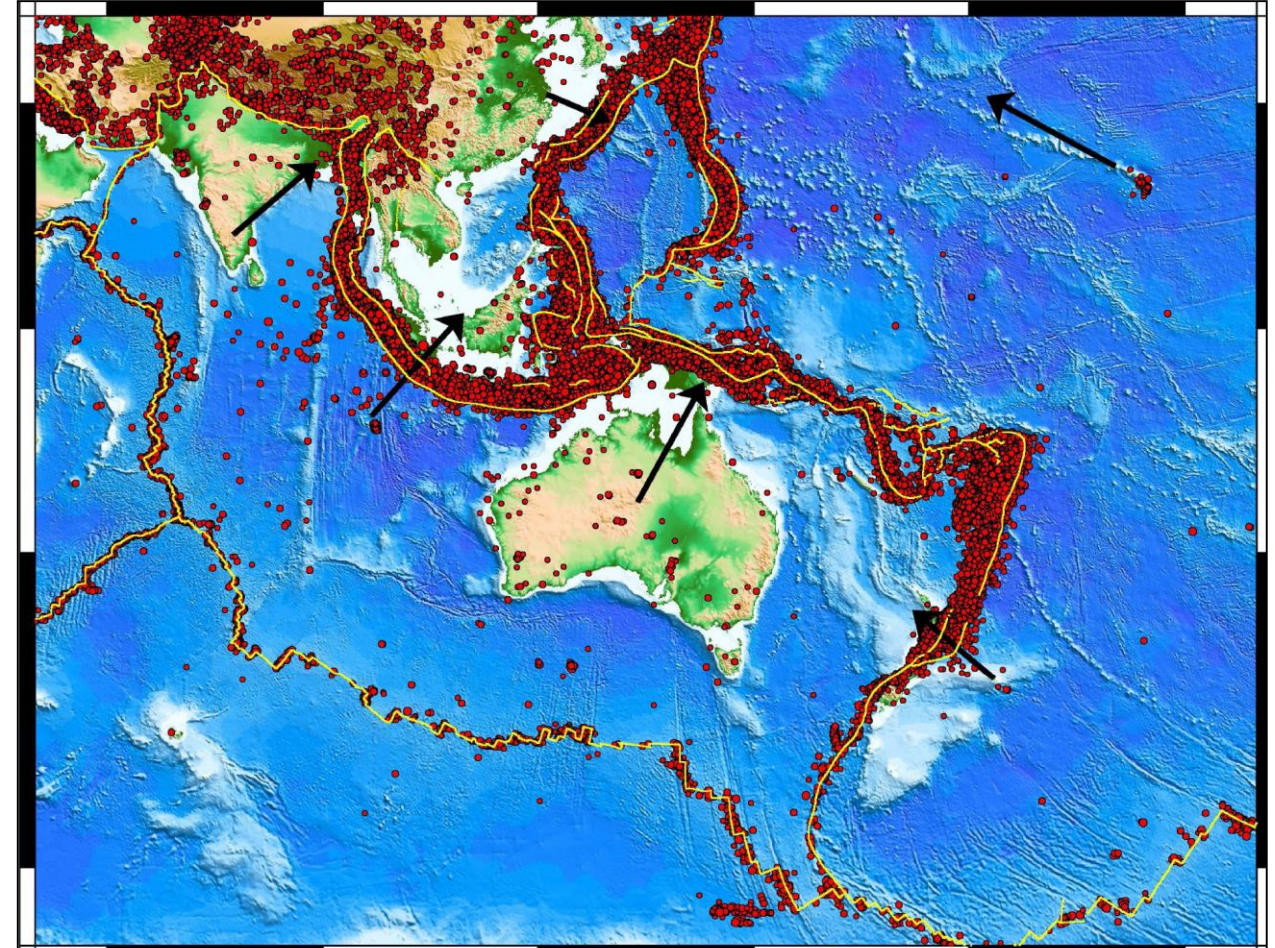
Applications of non-Real-Time GNSS data

- > Geodetic datum establishment and maintenance
- > Long-term crustal deformation determination
- > Sea level change studies
- > Other scientific studies

Applications of Real-Time GNSS data

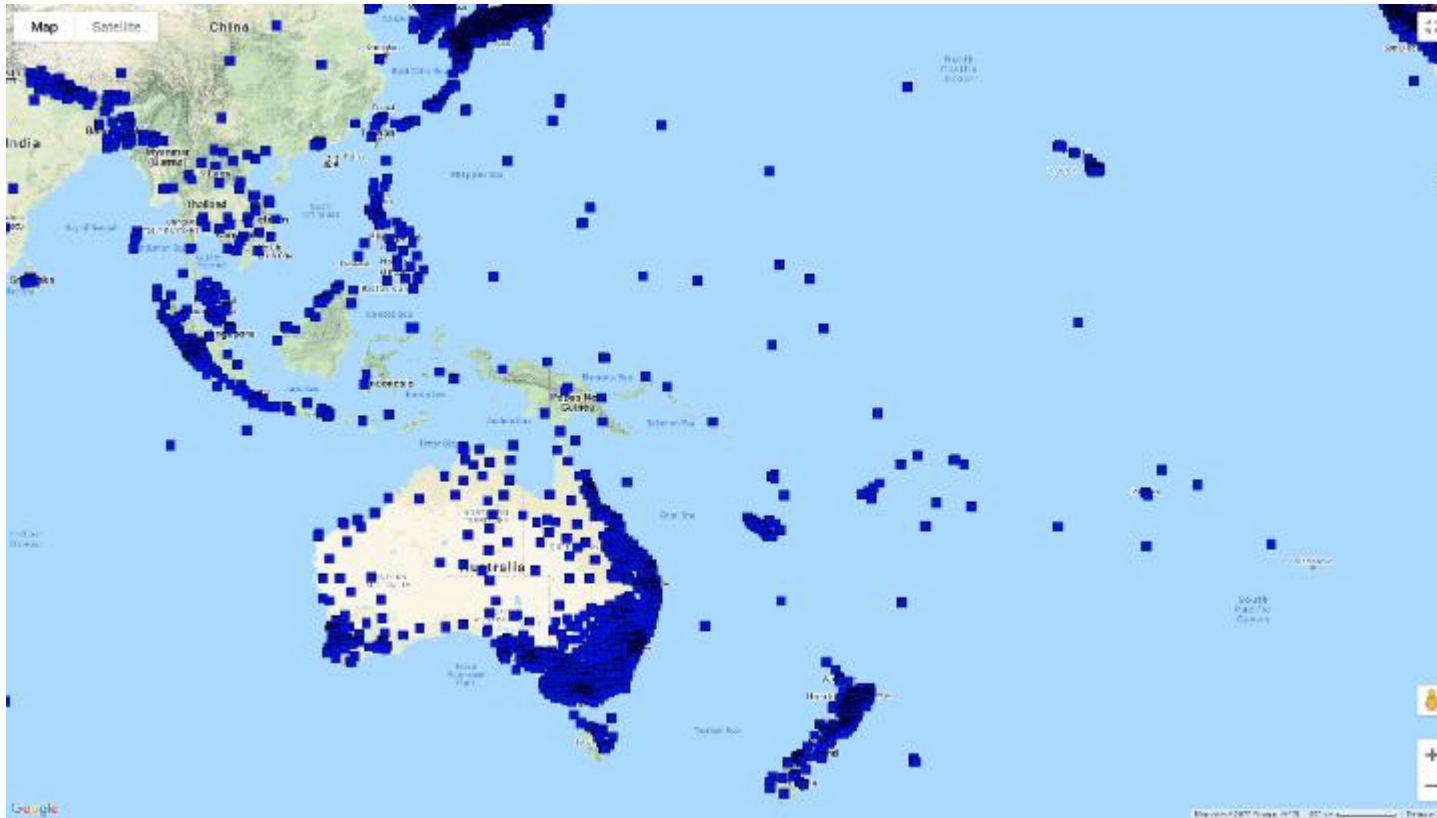
- > Rapid determination of earthquake Co-seismic Displacements
- > GNSS Tsunami Warning
 - Atmospheric sounding - Ionospheric mapping
- > Weather (troposphere) forecasting
- > Space weather (ionosphere) forecasting

Earthquakes in the Region

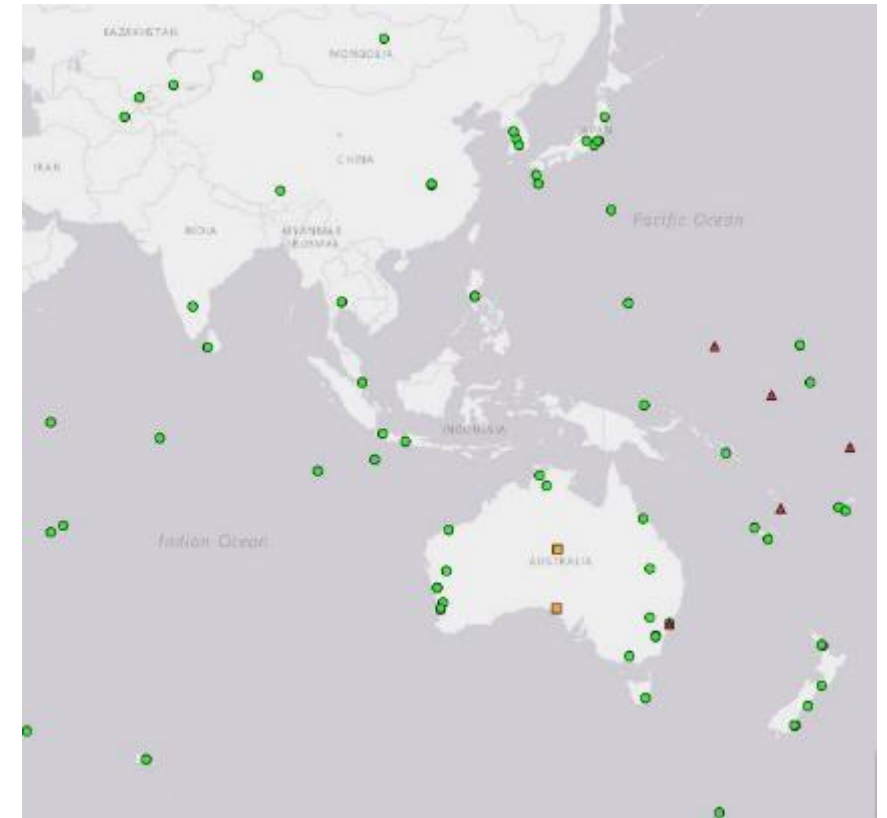


GNSS Data Availability

Nevada Geodetic Laboratory GPS Networks

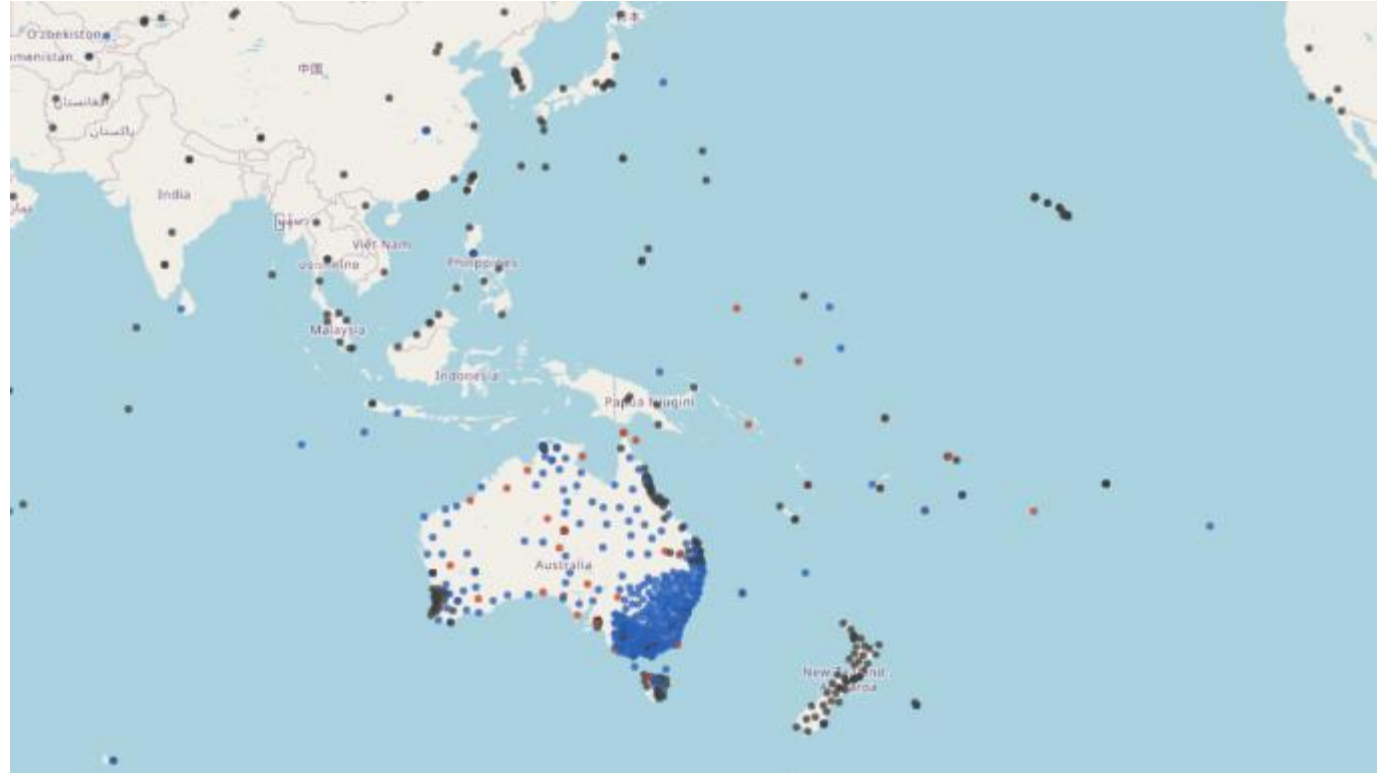


IGS Real-Time Network



UN-GGIM-AP

- > Working Group 1 – from 1997 to 2020 has been focussed on sharing static GNSS data
 - Campaign style observation (APRGP)
 - CORS observations (APREF)
- > Is there more the UN-GGIM-AP Geodetic Reference Frame working group could be doing with real-time GNSS data?



GNSS Real-Time Data Sharing in the Asia-Pacific Region

Dr John Dawson, Vice-Chair WG1, Geoscience Australia

November 2020