



Session: Asia Pacific Capacity Development Network Special Forum

Geoscience Australia's (GA) Future Plans

Ryan Ruddick



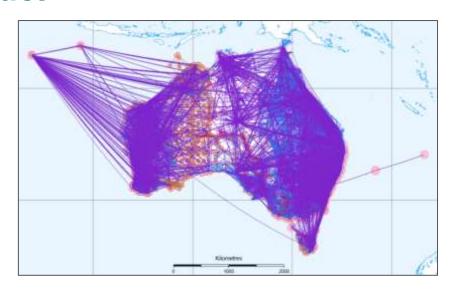
New Datum and Geoid Model

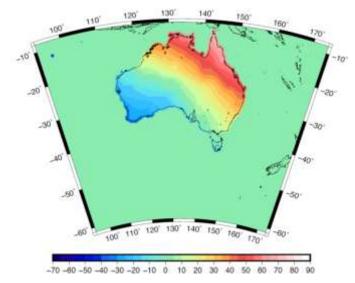
Present

- The National coordinate reference system updated to the Geocentric Datum of Australian 2020 (GDA200) by the National Measurement Institute.
- Aligned to reference frame for satellite navigation systems.
- New National geoid model (AUSGeoid2020) with rigorous uncertainty.

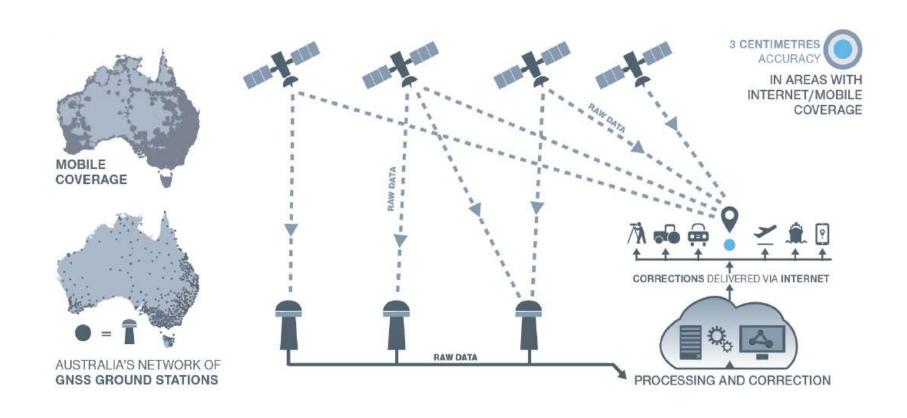
Future

- Australian Terrestrial Reference Frame (ATRF).
- Time-dependent reference frame.

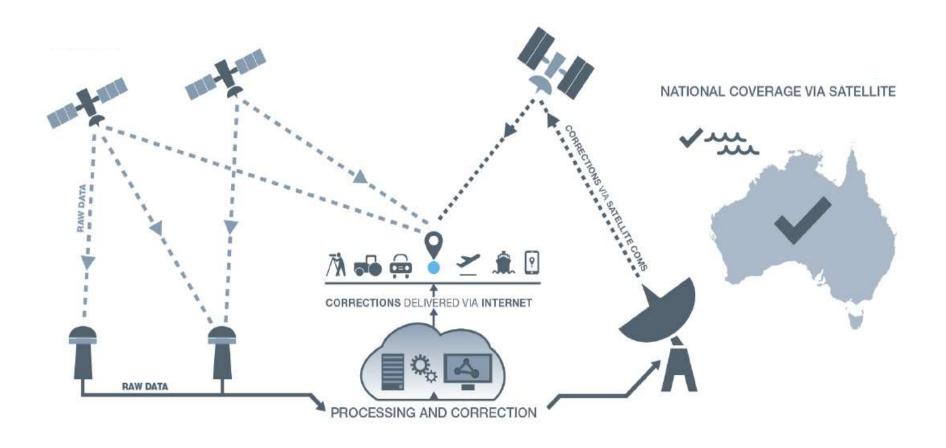




National Positioning: CORS Infrastructure



National Positioning: Satellite Delivery (SBAS)











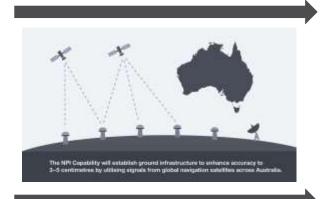




National Positioning: Analysis Centre Software









Positioning



Orbits/clocks



Timing



QA'd Data



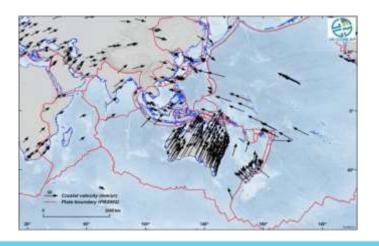
Atmosphere



Open software

Asia Pacific Reference Frame Project (APREF)

- Over 600 stations from 30 countries.
- Data routinely processed by four Analysis Centres.
- SINEX file made available via FTP.
- Analysis aligned to the IGS14 reference frame (IGS realisations of ITRF2014).











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UN-GGIM-AP Working Group 1 (Focus)

UN-GGIM Geodesy

Regional Reference Frame (APREF, APRGP)



Regional Height System Unification

Regional Capacity
Building

