

Introduction

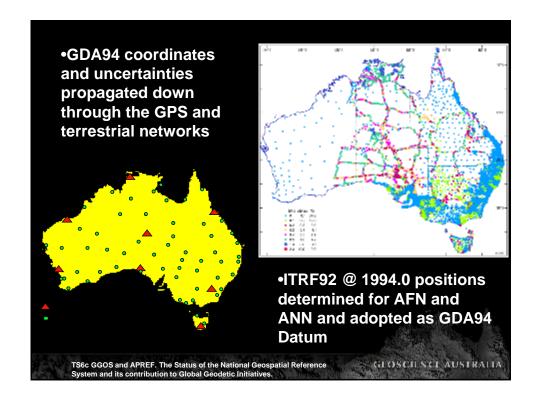
- Australia's National Geospatial Reference System (NGRS)
- · How has it changed
- Global Geodetic Observing System
- AUSCOPE
- Looking Forward
- Conclusion

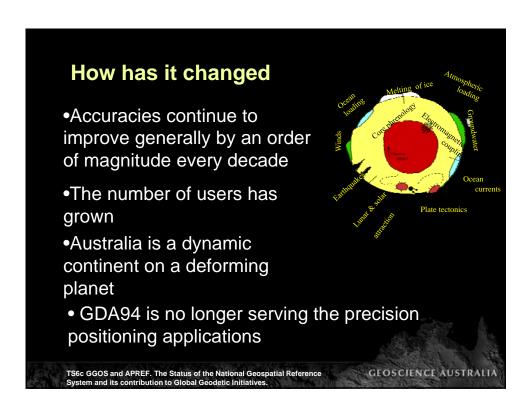
TS6c GGOS and APREF. The Status of the National Geospatial Reference System and its contribution to Global Geodetic Initiatives.

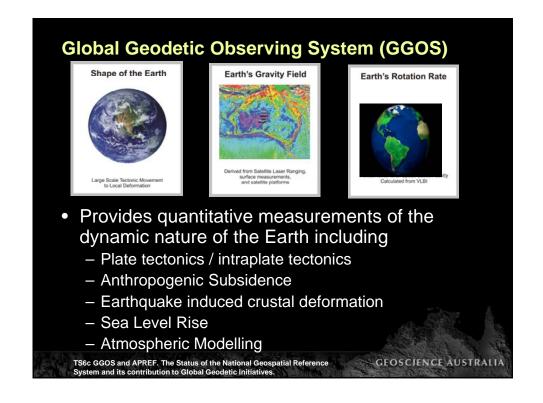
Australia's National Geospatial Reference System

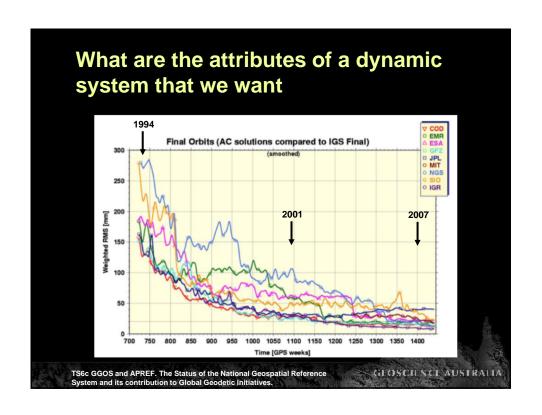
- •A coordinate framework that is accurate, reliable and accessible
- •Direct linkage to an International Reference Frame that is accurate and stable
- •Systems and tools to allow connection to the coordinate reference system and transformation of legacy data to the current reference system

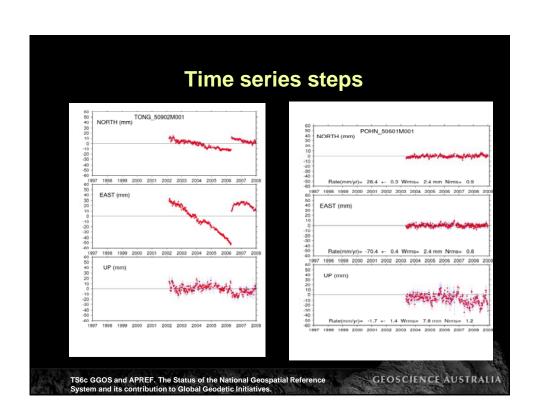
TS6c GGOS and APREF. The Status of the National Geospatial Reference

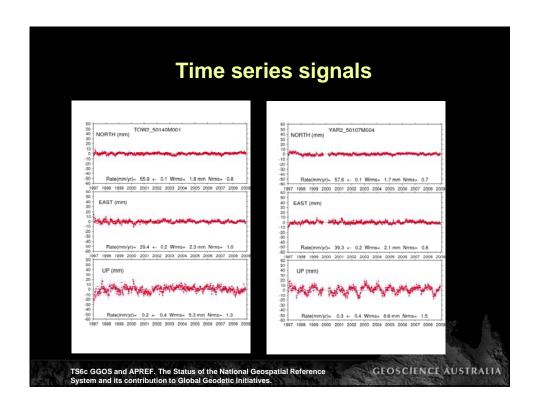


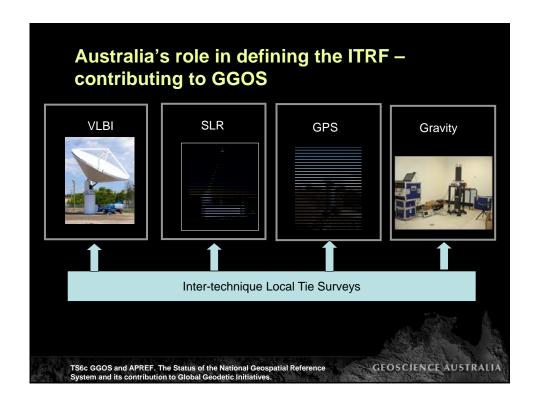








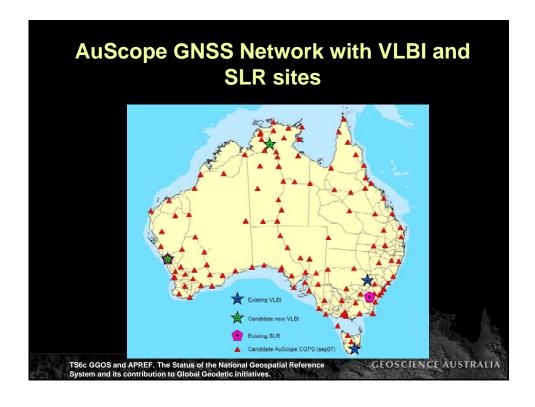




AuScope Geospatial Infrastructure Program

- 3 new 12m VLBI telescopes;
- A VLBI observation correlation facility;
- 4 new Gravity instruments (1 Microg FG5 absolute gravimeter plus 3 gPhone Earth Tide Metres) and observation program around a national network;
- A Laser power upgrade at the Mt Stromlo Satellite Laser Ranging observatory;
- 100 new GNSS sites

TS6c GGOS and APREF. The Status of the National Geospatial Reference



Looking Forward

- Need to incorporate desirable attributes of ITRF into a national datum
 - Continually refined
 - Observes Earth dynamics
- Need to remove national boundaries
- Need to develop systems for transforming / adjusting legacy data sets to the current coordinate frame (where required)
- · Dynamic datum offers these options

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GEOSCIENCE AUSTRALIA

Summary

- GDA94 has served us well but is showing its age
- GGOS and the IAG services have developed systems, data and methodologies for dealing with a dynamic Earth
- AuScope is giving us the tools to follow the GGOS lead
- A dynamic datum will keep Australia's positioning applications accurate and current, and therefore internationally competitive

TS6c GGOS and APREF. The Status of the National Geospatial Reference System and its contribution to Global Geodetic Initiatives.