



**Australian Government**  
**Geoscience Australia**

**Regional Committee of United Nations Global Geospatial Information  
Management for Asia and the Pacific (UN-GGIM-AP)  
Working Group 1 – Geodetic Reference Frame  
Asia and the Pacific Regional Geodetic Project (APRGP)  
2016 Geodetic Observation Campaign (APRGP2016)  
18 September 2016 to 24 September 2016  
(GPS week 1915)**

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### **INVITATION FOR PARTICIPATION**

Dear Colleague,

One of the roles of the Geodetic Reference Frame Working Group (WG) of the Regional Committee of United Nations Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP) is to create and maintain a densely realized and accurate geodetic framework, coordinate regional cooperation in geodesy amongst national agencies, and to build and improve the regional geodetic infrastructure. One ongoing annual activity of the WG is the Asia-Pacific Regional Geodetic Project (APRGP). The APRGP is where UN-GGIM-AP member agencies contribute campaign or continuous Global Navigation Satellite System (GNSS) data to the WG. GNSS data from the APRGP are available for all participant member countries for local and global scientific research and local applications. The composite GNSS data-set is subsequently analysed by the WG so as to provide estimates of station coordinates in the International Terrestrial Reference Frame (ITRF). The results of the APRGP are also supplied by the WG to the official ITRF Product Centre to densify the ITRF in the Asia-Pacific region.

Participation in APRGP provides a way for the member countries to link and monitor their existing national geodetic datum and infrastructure with respect to the ITRF. The ITRF is the cornerstone of all global geospatial measurements, including those undertaken for Earth-observation, mapping, positioning, navigation and timing. It is the underlying reference frame required for precise positioning with applications in land, utility and asset management, together with, mining, agriculture, construction and emergency management. Additionally, scientific applications including sea level rise mitigation and crustal dynamics, due to tectonics and other natural and anthropogenic processes, can only be adequately addressed using long-term observations of the Earth's surface relative to the ITRF.

We plan to continue the annual GNSS campaign activity as some member countries are at this time unable to participate in the APREF project but have a requirement for geodetic positioning relative to the regional/global network. This year we will run the 20<sup>th</sup> APRGP observation campaign from 18 to 24 September 2016 (GPS week 1915). Each member country of the UN-GGIM-AP is invited to participate in the APRGP2016 GNSS observation campaign by contributing GNSS data and/or by undertaking analysis of the composite data-set.

The observation period for the APRGP2016 GNSS observation campaign is from 00:00:00 (UTC time) on Sunday 18 September to 00:00:00 (UTC time) on Sunday 25 September 2016 providing a data-set fully spanning GPS week 1915. The APRGP2016 GNSS campaign observation specification and the RINEX observation file specification documents are attached.

If you plan to participate in the APRGP2016 observation campaign or need additional information, or advice, please contact us. Also, please advise us if you require a separate formal letter of invitation and we will send one to you.

Looking forward to your response,

Yours sincerely,



**Dr. John Dawson**

**Chair**

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