

# **Communication Satellite Applications WG**

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## **Chairman's Summary Report**

**Co-chairs:**

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**APRSAF-17 Melbourne, Australia**

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# Outline

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- Objectives
- Participants and Presentations
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# Objectives

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- The CSA WG will provide good opportunities to exchange each country's status.
  
- The CSA WG will share experiences for realizing cooperation among countries in the Asia-Pacific region.
  
- The CSA WG in the APRSAF-17 aims to discuss;
  - A) New applications of or concepts for satellite communication for tele-education, tele-medicine and disaster management in the Asia-Pacific region
  - B) Promotion of activities on Global Navigation Satellite System (GNSS) in the Asia-Pacific region.

# Participants and Presentations

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- 30 participants  
from 5 countries
  - Australia, Chile, Indonesia, Japan, Thailand
- from 2 organizations
  - SIAP, UNOOSA
  
- 20 presentations
  - 5 presentations : Communications Satellite Systems and Applications
  - 7 presentations : WINDS satellite experiment results
  - 4 presentations : Country reports
  - 4 presentations : GNSS activities and Workshop report

# Meeting Summary

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## A) Communications Satellite Systems and Applications

- Following information was provided by space agency (JAXA), satellite operators (Optus, Intelsat and Sky Perfect JSAT) and satellite manufacturers (MELCO and NEC).
  - ✓ Satellite program and satellite fleet
  - ✓ Commercial market in the Asia Pacific region
  - ✓ Satellite applications
  - ✓ Technology of satellite and ground systems
- Issue of technology transfer among the Asia Pacific countries or from R&D to commercial was discussed.

# Meeting Summary (Cont'd)

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## B) Activity reports on Communications Satellite Applications

- A number of experiments using the WINDS satellite in the Asia Pacific region were reported and their expected achievements were confirmed.
- New applications for distance training, remote weather watch and emergency communications were introduced by SIAP, Australia and Chile.
- Micro and small satellite activities with communications payloads were introduced by Indonesia and Australia.

# Meeting Summary (Cont'd)

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- C) Activity reports on the Global Navigation Satellite System (GNSS)
  - Establishment of the “Asia Oceania Multi-GNSS Demonstration Campaign” in the second Asia Oceania Regional Workshop on GNSS was reported.
  - Successful launch of the First Quasi-Zenith Satellite (QZS-1) “MICHIBIKI”, its current status and demonstration plan were reported.
  - ICG addressed expectations and endorsement of the campaign.
  - Australia’s requirements and contributions regarding the Multi-GNSS were introduced.

# Recommendations

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- Agree to share experiences and opportunities in order to diffuse the use of applications regarding tele-education, tele-medicine, disaster management and mitigation in the Asia-Pacific region;
- Agree to discuss mechanisms for technology transfer with the aim of not only demonstration, but also continuous use, including possibilities for hosted payloads with appropriate planning with the active participation of private sector;
- Recognize the expected achievements of the WINDS satellite experiments promoted with the Asia-Pacific regional cooperation through the APRSAF;
- Welcome the successful launch of the QZS-1 satellite and the establishment of the Multi GNSS demonstration campaign with support of APRSAF in the second Asia Oceania regional workshop on GNSS, and expect to further promote Multi GNSS applications in this region and facilitate cooperation between APRSAF and the campaign.

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**Thank you for your attention.**