

Communication Satellite Application WG

Chairman's Report

Co-chairs:

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APRSAF-13 Jakarta, Indonesia

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Outline

- **Participants**
- **Presentations**
- **Main Themes**
- **General Conclusions**
- **Recommendations**

Participants of APRSAF-13 CSA WG

□ AP-MCSTA	Mrs. Tang Lingli	AP-MCSTA
□ China	Dr. Tak Shing Peter Yum	CUHK
□ India	Dr. Kalyankumar Bandyopadhyay	ISRO
□ Indonesia	Dr. Agus Nuryanto	LAPAN
	Dr. Utoro Sastrokusumo	ITB
□ Japan	Mr. Ryo Saito	ADRC
	Mr. Mitsuyoshi Iida	ARIB
	Mr. Kazuo Kera	IDI
	Mr. Toshio Higuchi	JAXA
	Mr. Takashi Takahashi	NICT
	Mr. Shogo Kitahara	NTS
□ Malaysia Communication	Mr. Nik Ariffuddin Bin Nik Ariffin	Ministry of Energy, Water and
□ Mongolia	Mr. Zoringtbaartar Jargalsaikhan	Government
□ Myanmar	Mr. Tint Aung	Department of Meteorology and Hydrology
□ Philippine	Mr. Denis Villorente	ASTI
□ Singapore	Dr. Ong Jin Teong	Nanyang Technological University
□ Sri Lanka Technology	Dr. Sudalaimulha Namsivayam	Arthur C Clarke Institute for Modern
□ Thailand	Mrs. Morakot Teckaput	MICT
	Dr. Michiro Kusanagi	AIT

CSAWG Presentation

- **Ong Jin Teong** **Review of Rain attenuation**
- **Sudalaimuthu Namasivayam**
 Country Report of Sri Lanka
- **Denis Villorente** **Country Report of Philippine**
- **Morakot Teckaput** **Country Report of Thailand**
- **Kalyankumar Bandyopadhyay**
 Country Report of India
- **Shogo Kitahara** **Digital divide Mitigation by WINDS Applications**
- **Toshio Higuchi** **Status Report of ETS-VIII and WINDS project**
- **Takashi Takahashi** **Experiments plan using WINDS**
- **Utoro Saatrokusumo** **Expectations of WINDS Applications**
- **Kazuo Kera** **Trial Running of GFAS**
- **Toshio Higuchi,** **Quazi Zenith Satellite System (QZSS)**

Issues Discussed

- **After the previous workshop held in June 2006, some WINDS experiment proposals have been submitted.**
- **Modeling and consolidation of rainfall rates statistics better computation of specific attenuation of tropical rain; rain radar modeling and simulation to obtain better path reduction factor and site diversity improvement, and further measurements to verify models**
- **The current status of satellite communications in Asia Pacific countries such as Philippines, Myanmar, Sri Lanka, India, Thailand including the topics of rural communication (mobile phone and wireless), tele-education (EDUSAT, DLF e-learning), tele-medicine, disaster management system such as Cyclone Warning Dissemination System (CWDS), etc.**
- **Some pilot project has been carried out in Japan for WINDS applications such as digital divide mitigation and tele-medicine.**
- **Report of the current status of JAXA advanced communications satellites of ETS-VIII, WINDS and QZSS**
- **Call for Proposal of the WINDS application experiments program announced by MIC in Japan**
- **Expectation for WINDS application experiments such as rural communication (Rural-WINDS) and telemedicine was presented by ITB.**
- **Trial running of Global Flood Alert System (GFAS) was presented by IDI.**

General Conclusion of CSA WG

- ❑ **Need to identify the telecommunication challenges of the Asia Pacific countries and to better understand the capability of satellite communications in addressing these issues**
- ❑ **New generation satellites will provide some solutions to reduce the digital divide on broadband service issues in Asia Pacific region**
- ❑ **Call for the proposal of WINDS application experiments program by MIC in Japan is underway.**
- ❑ **Satellite navigation system should be included in the topics of CSA WG discussion.**
- ❑ **Suspension of Broadband Satellite Communications prize due to lack of support arrangements**

Recommendations of CSA WG

- ❑ **Share the information relating to digital divide in Asia Pacific region**
- ❑ **Recognizing the role of satellite communication and navigation, identify the problem to solve the digital divide in the Asia Pacific region**
- ❑ **Consider applying the WINDS experiment program to study the technical issues of Ka-band satellite communications, satellite IP network, broadband communications and for the application such as Sentinel Asia in Asian countries.**
- ❑ **Consider post WINDS program with cooperation of Asian countries**
- ❑ **Experiment proposals of WINDS shall be submitted by Feb. / Mar. 2007**