

## 13<sup>th</sup> IARU Region 3 Conference, Bangalore 2006

### Report to Plenary Meeting from Working Group 2

#### Operational and Technical Matters

The meeting commenced at 1030 on Monday 7 August 2006.

The following is the list of participating societies,

**ARSI, ARRL, HARTS, JARL, KARL, MARTS, NZART, RSGB, WIA, CTARL, RAST**

Joong Geun Rhee – Chairman	HL1AQQ	KARL
B. L. Manohar – Secretary	VU2UR	ARSI
Yoshi Sekido	JJ10EY	Director
Peter Lake	ZL2AZ	Director
Reinaldo Leandro	YV5AMH	IARU R 2
Tim Ellam	VE6SH	IARU R 2
Don Beattie	G3BJ	IARU R 1
Won Seok Chang	HL3QVU	KARL
Yung Surk Lee	HL1FB	KARL
Seung Sup Hong	HL2SSH	KARL
Yoshio Arisaka	JA1HQG	JARL
Mitsu Sugawara	JN1LQH	JARL
Yoshio Arasaka	JA1HQG	JARL
Takenobu Kaieda	JH1HNN	JARL
Bruce Douglas	ZL2WP	NZART
J. R. Lochhead	ZL4QS	NZART
Abdul Rashid Sultan	9M2RS	MARTS
Sarla Sharma	VU2SWS	ARSI
Jim Linton	VK3PC	WIA
Lin, Po Lung	BV5AF	CTARL
Thida Denpruektham	HS1ASC	RAST
Sarla Sharma	VU2SWS	ARSI
Colin Thomas	G3PSM	RSGB
David Sumner	K1ZZ	ARRL

Working Group 2 met:

Monday 1030-1730

Tuesday 1030-1500

All business was completed in the allotted time.

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### **Agenda Item 11.6 Amateur Satellite**

#### **Document 041 Report by NZART**

Views about the amateur radio satellites and problems in securing components are presented.

Report is acknowledged and accepted.

#### **Document 050 Report on KiwiSAT by NZART**

NZART introduced the paper, and the details were noticed and recorded.

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### **Agenda Item 11.8 EMC and Standards**

#### **Document 009 Report by R3 EMC Coordinator, HL1AQQ (KARL)**

The Coordinator explained CISPR activities, which deals solely with the EMC matters. RFID is not discussed much there. It is now widely recognized that PLC does cause interference to amateur radio frequencies. EM emissions from large LED display units were explained and in-situ measurement. The paper is recorded.

#### **Document 36 Report by KARL**

Korea has allocated 477MHz for RFID/TPMS/KES application whereas 433.92 MHz being used in Europe. The Radio Research Laboratory in Korea has advised traders of automobiles for giving detailed specifications for Test & Evaluations.

RSGB said that this is a non-protected service in Europe. Move from 433 MHz to 418 MHz was also discussed. They are also using 900 MHz.

WIA referred to the repeater interference in Australia for the keyless entry system.

It is recommended that National Societies should pay attention whenever amateur frequencies are involved.

#### **Document 037 : Report on the Broadband over Power Line by WIA**

WIA summarized the approach taken by them. BPL goes beyond 30 MHz to VHF range.

ARRL conveyed that Under Ground Cabling will not help, and KARL reported that notch filters cannot be the final solution either. Both of Radiated and conducted emissions should not cause interference.

#### Document 046 (Rev. 1) **Report by ARRL**

ARRL explained the development after the recent Taipei Conference. Motorola introduced customer side filter, analogue/modem type filters for amateur bands. They were found compatible. BPL with Motorola filters is coming through.

#### Document 060 **Report by JARL**

JARL had taken part in the study group with their Ministry. Allowed for experiments with BPL appliances. 2<sup>nd</sup> study group discussions went on. Finally JARL did not agree with the ambient levels. Information and communications Council BPL sub-committee experimented with 1) Departmental and 2) independent bodies. Ambient RF noise levels were less in the range 2 MHz to 15 MHz and greater above 15 MHz. Plans are to change Japanese regulations. From 15 MHz to 30 MHz, 10 dB below the above mentioned 2 MHz to 15 MHz level was recommended.

New devices with the same as or lower than ambient noise levels may be approved to be used in Japan. HL1AQQ explained the technical differences between the Quasi peak mode (which is used for the measurement of EMI and approximately 20dB below the peak mode values) and peak mode detection. Graph showing environment noise level and measurement results of experiments were also explained by JARL.

JARL introduced that 433.92 MHz RFID in Japanese Container Industry uses power of 0.4 mW and 1 mW. JARL experimented RFID and accepted it.

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### **Agenda Item 11.9 EMR and Standards**

#### Document 010 **Report by Interim EMR Coordinator, VK1ZKM (WIA).**

WIA introduced the document. Questions were asked if any levels have been set for humans for the cell phone radiations. ARRL said that thermal levels can be limited and some countries have done it. Limits in South Korea exist depending on the frequencies.

ARRL queried if an EMR coordinator is needed for Region 3 or not ?

WIA is in favor of keeping the post and the person.

**Recommendation WG2-1 :** It was recommended to the Plenary that the position of the EMR coordinator is needed as technology and the variety of consumer goods are developing fast.

**Document 045 Report by Interim EMR Coordinator, VK1ZKM(WIA)**

Recommendations are as above. Terms of reference of job description is required.

The EMR coordinator may distribute information to the National societies, however the National societies need not to have any such coordinator. He should be authorized to receive enquiries from the National societies for helping them with EMR issues.

ARRL suggested for the addition between paragraphs B and C, as the following:

“The IARU Region 3 Coordinator shall be an information source and point of contact for the member societies on EMR issues.”

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**Agenda Item 12.1 IARU Monitoring System (MS)**

**Document 007 Report by MS Coordinator, VU2UR(ARSI)**

The Regional MS Coordinator gave details of the latest Chinese Broadcasts on 18,160, 18,180, 18,200, 14,350, 14,310 and 14,260 kHz. He heard reports from various countries of Region 3 and elsewhere, and the efforts made by DARC, RSGB, HARTS and others. The problems of Voice of Korea, DPR-Korea, and Eritrea broadcasts from East Africa on 7100 kHz were also reported.

**Recommendation WG2-2** : The Chairman and Directors of Region 3 are requested to review the terms of reference for the Regional MS Coordinator.

**Document 054 Report on 18.160 MHz issue by CTARL**

The paper was not discussed at the WG2 meeting, however the following is the comments by R3 MS Coordinator.

The existence of the reported “Sound of Hope” from Taiwan and from SWLs in Japan, is not much known to the outside world, but the Chinese broadcasting on the same frequency is heard around the world. This is causing enough interference. Though DARC, RSGB have taken action, the broadcasts still continues on 14260 kHz. The Chinese Authorities are to be informed suitably about this QRM.

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**Agenda Item 12.2 International Beacons**

**Document 08 Report by Beacon Coordinator, ZL2SJ(NZART)**

Beacon VR2B had been damaged and a new one is in operation intermittently. Beacon 5Z4B has problem and emits intermittently. Beacon JA2IGY for a period of time is on full power on all slots, and only transmits on 10 m band. Now it is normal. Report recorded.

Document 070 **Report on the Beacon by HARTS**

**Recommendation WG 2-3** : Recommendation submitted by HARTS are taken.

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**Agenda Item 12.3 Data Transmission and Amateur Radio**

Document 029 **Report on Digital Modes and Techniques by NZART**

HARTS reported interferences in the digital mode communications in Hong Kong Area, and suggested to inform the unique sound characteristics of digital communications to the amateur operators in the same band.

**Recommendation WG2-4** : Member societies are asked to report about their experiences with reference to band plans.

Document 030 **Report on Re-Engineering the New Zealand “National System” by NZART.**

ARRL reported that FCC has legislation to protect amateur service from ISM bands.

Document 032 **Report on RSQ reporting for digital modes below 30 MHz by WIA**

The committee took it as recommendation. Addition of “wherever applicable” above 30 MHz was suggested. ARRL supported the recommendation.

**Recommendation WG2-5** : It is recommended that RSQ reporting be used for digital modes below 30 MHz.

Document 041 **Report by NZART.**

Acknowledged. .

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**Agenda Item 12.4 ARDF (Amateur Radio Direction Finding)**

Document 058 **Report on ARDF by JARL.**

The chairman of R3 ARDF, JA1HQG(JARL), presented the events of past and future, and current status.

The next world ARDF competition in 2008 will be hosted by KARL.

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## **Agenda Item 12.5 Region 3 Award**

### **Document 026 Report on the IARU R3 Award by NZART.**

Report is acknowledged and accepted.

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## **Agenda Item 12.6 Emergency Communication**

### **Document 018 Report on the Amateur Radio Emergency Service by Hong Kong**

Report is acknowledged and accepted.

### **Document 043 Report on the Terms of Reference for Chairman of the Disaster Communication Committee**

The proposals with the following addition were accepted

“The Chairman shall coordinate the work of the region in the field of disaster and emergency communications with the other regions, through the IARU International Coordinator for Emergency Communications”

### **Document 46 (Rev. 1) Report by ARRL**

It is discussed about the emergency calling frequencies, and the recommendations are taken.

**Recommendation WG 2-6** : ARRL’s emergency calling frequencies are recommended to the R3 member societies for review.

### **Document 047 Report by the Chairman of Region 3 Disaster Communication Committee**

The committee chairman opened the topic. NZART/HARTS/MARTS/KAR presented their experiences about emergency volunteers etc. ARRL’s simulated emergency exercises were also introduced. RSGB reported about the new rules about the HAMs and equipment to come in force, that HAMs use it for the emergencies, as required. The committee chairman wanted to know, if emergency tests between countries of the Regions, the possibilities and other facts. JARL presented the Kobe repeater for emergency Communications.

**Recommendation WG 2-7** : “Conclusion” can be taken as recommendations and accepted, by including changes to sub paras ..namely 25.3, 25.9(a).

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## **Agenda Item 12.6.2 (Calling) Frequencies for Emergency Communication**

### **Document 031 Report on the Center of Activity Frequency for Emergency Traffic by JARL**

JARL reported that 3760 kHz is out of amateur band. 3754 was recommended for use.

For Region 3, the centre frequency of 7060, 3760 as of region 2, can be studied and discussed.

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## **Agenda Item 12.7 Other Operation /Technical Matters**

### **Document 035 Report on the WRC-07 Agenda Item 1.15 by KARL**

### **Document 066 Report on the Expansion of amateur access to 136 kHz**

Information papers for study are accepted.

The committee chairman explained the New LF Issues :

New frequency allocation as a secondary in the LF band of 135.7 kHz to 137.8 kHz is one of the Agenda item, 1.15, and will be discussed at the next World Radio Conference 2007. Member countries of APT(Asia Pacific Telecommunity) came up with favorable common views at the last preparatory group meeting in Kuala Lumpur, Malaysia. HL1AQQ, KARL, was the Chairman of the responsible Drafting Group.

### **Document 067 Report on Over-the-horizon RADARs by HARTS**

OTHR intruder transmissions were explained in detail by VR2BG.

**Recommendation WG 2-8** : The Plenary should notify the member societies to be aware of the OTHR intruder transmission.

### **Document 068 Report on the Intruders by HARTS**

**Recommendation WG 2-9** : Recommendation submitted by HARTS are taken.

### **Document 069 Report on Field Day by HARTS**

**Recommendation WG 2-10** : 2 days of Field Day similar to the one held in R1 is proposed to the R3 member societies.

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## **Agenda Item 11.5 Review and Revision, if any, of the existing Band Plans for HF, VHF, and UHF bands**

### **Document 027 Report on Band Plans by NZART**

Information paper of Band Plans from NZART accepted. Key changes over the last 3-year period have been introduced.

### **Document 044 Report on New Australian 7 MHz Band Plan by WIA**

The broadcasting of information bulletin for the VK amateurs are done in the slot 7130 to 7150 kHz by all seven states on Sundays. The broadcasts do not contain any entertainment or music. The information paper submission is accepted.

### **Document 046 Rev.1 Report by ARRL**

ARRL band plan for the American dependencies in Region 3 is accepted.

### **Document 060 Report by JARL**

JARL has been using a set of emergency calling frequencies which are different from the Region 1's recommended frequencies. JARL will review it and may change it's frequencies, on the basis of Region 1's suggestions.

### **Document 063 Report by RAST**

RAST proposed links via repeaters or echo link with other countries, and IARU to produce manuals on the ARDF, Home brewing, etc.

The information paper submission is accepted.

### **Document 064 Report by HARTS**

Information paper submission is accepted.

### **Document 065 Report on the amateur radio activities by RSGB**

RSGB getting frequencies in the 5 MHz, 7.1 to 7.2 MHz, 501 kHz to 504 kHz with 1 watt erp, was noted. The 10 GHz segment in the Britain, is being auctioned for the users. Information paper for Region 3 societies is accepted.

### **Document 071 Report on Band Plans by HARTS**

Recommendations submitted by HARTS are taken.



Document 073 **Report on IARU R1 Band Plan**

IARU R1 Band Plan effective 1<sup>st</sup> January 2006 was distributed for Information.

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