

## The International Amateur Radio Union

Founded 1925. Representing the radiocommunication services as defined by the Radio Regulations of the International Telecommunication Union: The Amateur Service and the Amateur Satellite Service. Member of the International Special Committee on Radio Interference CISPR.

# VHF UHF MW NEWSLETTER

*EDITION 37, October 2003*



Region I

Europe, Africa and part of Asia.  
Founded 1950

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*Do not forget to distribute this newsletter to all people concerned in your society*

**REMINDER:** Please note that the following actions are expected from you:

**- Cooperate with Ian Phillips, G0RDI, in the process of moving the 435 MHz beacons to the new frequencies before or on 1-1-2004.**

**- Arrange with the microwave amateurs in your country that all beacons and other narrow band activities in the 24 GHz band are moved from the 24192/24194 MHz segment to the 24048/24050 MHz segment in november/december this year. Although there is no need for a frequency coordination as such, the new beacon frequencies should be communicated to G0RDI.**

## **2004 INTERIM MEETING IN VIENNA**

The next interim meeting of the IARU Region 1 VHF/UHF/MW Committee will be held on **28 /29 February in Vienna** at the InterCity Hotel.

All contributions for this meeting shall arrive at PA0EZ by e-mail or paper mail not later than 1 December 2003. The contributions and the draft meeting agenda will be distributed to you and the member societies before 15 December 2003.

The austrian society, ÖVSV, has kindly invited us to Vienna and Michael, OE1MCU has set up the following schedule:

Friday 27 February 2004 :

|             |   |
|-------------|---|
| 12:00-20:00 | the ÖVSV arranges a transport service from the airport to the hotel |
| 20:00-20:30 | Welcome drink in the hotel  |
| 20:30-22:00 | dinner  |

Saturday 28 February 2004 :

|                    |                          |                    |                                  |
|--------------------|--------------------------|--------------------|----------------------------------|
| 08:00-09:00        | breakfast                | <b>14:00-18:00</b> | <b>committee meeting</b>         |
| <b>09:00-12:00</b> | <b>committee meeting</b> | 19:40              | bus from hotel to the restaurant |
| 12:00-14:00        | lunch                    | 20:00              | dinner                           |

after dinner - Vienna at night - guided tour by OE1MCU ;-)

Sunday 29 February 2004

|                    |                          |             |   |
|--------------------|--------------------------|-------------|---|
| 08:00-09:00        | breakfast                | 12:00-14:00 | lunch   |
| <b>09:00-12:00</b> | <b>committee meeting</b> | 12:00-18:00 | transport service from hotel to airport provided by OeVSV |

Hotel: InterCityHotel Wien  
Mariahilfer Strasse 122  
A-1070 Wien  
Tel.: +43-1-525 85 220  
Fax: +43-1-525 85 188  
<http://www.intercityhotel.at>

The hotel is a small - but quiet 4 star hotel 3 minutes away from the main ( Westbahnhof) station, 8 minutes away from the OeVSV-HQ and beside a underground station (4 minutes to the St.Stephans cathedral). We will use a comfortable and quiet meeting room and enjoy the good catering from the hotel.

The price for the weekend is per person EUR 235,- In this price is included a free ticket for public transport in Vienna .

ÖVSV will inform you about all payment information after your registration. Your registration shall be received by the ÖVSV **not later then 20 December 2003.**

Additional information:

+ the transport from and to the airport, the welcome drinks and dinner on Friday and Saturday evening is sponsored by the ÖVSV

+ We plan the dinner in a typical Viennese restaurant (casual wear-no gala dinner with speeches -> its a working group with specialists)

+ in the ÖVSV-HQ office you are invited to use our internet access (wireless LAN) and the office facilities

+ please mail your reservations to [iaru@oevsv.at](mailto:iaru@oevsv.at) ( copy to [vhf@iaru-r1.org](mailto:vhf@iaru-r1.org) )

+ please mail your flight number an arrival time (on 27 february) to [iaru@oevsv.at](mailto:iaru@oevsv.at)

+ please mail all questions about the meeting to [iaru@oevsv.at](mailto:iaru@oevsv.at)

### Vehicle Collision Radar and our 76 GHz band

In an earlier Newsletter I already informed you about ongoing activities in CEPT to arrange for a temporary allocation to S(hort) R(ange) R(adar) around 24 GHz. Although it is not yet clear if all CEPT countries will agree to this temporary allocation, the next phase ( from about 2011/14) will be a permanent allocation for SRR in the 79 GHz band ( 78-81 GHz).

Looking at the current ( since WRC2000) allocations in this area, there is an allocation between 76 and 77 GHz for "long distance vehicle radar" and between 77 and 81 GHz a radiolocation allocation exists, except for the 77,5-78 GHz

amateur(satellite) allocation. This creates a problem as the SRR will create unacceptable interference to amateur reception in many situations.

IARU R1 has proposed a rather simple solution:

The "old" 75,5 - 76 GHz amateur allocation, had been extended by WRC2000 till 2006 ( footnote 559A). The IARU R1 proposal is that this time limit should disappear in the European Common Allocation table. CEPT FM has agreed to implement this proposal in the 2004 edition of the ECA. At a later WRC this change could be added to the ITU table. Although the status of the amateur service in this segment is primary, it is not exclusive as in the new 77,5-78 GHz segment. But there probably will be less problems here once the SRR devices are becoming a standard option on cars.

*For our bandplanning this probably implies a change in the planning of our 77 GHz band. In fact this will be welcomed by the majority of 76 GHz amateurs still using the "old" segment.*

### **From our Records coordinator**

New site for VHF/UHF/Microwave DX records updated 6 Oct : From now use:  
<http://www.svessa.se/vhf/dxrecord.htm> . The backup site is:  
<http://ham.se/vhf/dxrecord/dxrecord.htm>

Info needed for a claim are: Frequency, Propagation mode, Call and locator for both stations, Mode and time/date in UTC. An estimate of the distance is welcome but all distances are calculated by the same program for the whole list.

Info about a dx QSO should be sent by one of the participants or national VHF-manager to: [vhfcontest@svessa.se](mailto:vhfcontest@svessa.se)

73 Tommy SM7NZZ

note from your editor: I am still wondering why one of the tropo modes, where (part of) the dx was due to reflection by rain clouds is worth a separate list.

### **From our Satellite coordinator**

Since my appointment at the San Marino Conference I have had two aims to satisfy.

Firstly to encourage all possible satellite builders to use our bands responsibly and also to help liaise with the other IARU regional satellite people.

The past eleven months have seen the launch of a number of small picosats which have some downlinks in the 435 MHz band. These satellites are regarded as providing worthwhile educational experimental resources for the amateur radio and university teams that have created them. Future picosats will be co-ordinated into a part of the 435 MHz space band which is being referred to as "experimental and educational"

AMSAT - NA are continuing work on their low earth orbiting Oscar "Echo" scheduled for launch next Summer and will have a number of limiting FM and data transponders with opportunities for experimentation.

AMSAT-DL are busy with the construction a new P5E bird which is intended for an elliptical orbit similar to Oscar 10. P3E will carry linear transponders with uplinks on

the 29, 435, 1268, and 5650 MHz bands and downlinks on 145 MHz , 2.4, 24 and 47GHz.

At the time of writing an Indian launch of VUSAT is expected any day and this is planned to have two 435MHz uplink/ 145MHz downlink linear transponders in a polar low earth orbit.

I have provided an updated chapter for the IARU Region 1 VHF Managers Handbook for the amateur satellite section.

For more information please check the IARU website <http://www.iaru.org/satellite/> which describes the route to the licensing of potential future satellites and is a good information source for interested groups.

If you or your members have any questions concerning IARU Region 1 amateur satellite matters please contact me at [g3vzv@amsat.org](mailto:g3vzv@amsat.org)

cheers

Graham Shirville G3VZV

### **47 GHz bandplan**

Looking at the microwave bandplanning we decided at the S.Marino conference it becomes clear that an error was made in the 47 GHz plan. In fact the “centre of activity” frequency of 47088 MHz remained as it was before, but we added a narrow band segment 47,000-47,002 GHz which does not include the 47088 MHz. This can be easily changed by e.g. choosing 47088-47090 MHz as narrow band segment for terrestrial and satellite use.

Please discuss with the 47 GHz activists in your society what might be the best solution and bring your proposal to the Vienna meeting

### **435 MHz record > 3000 kms**

In the records table you will now see an interesting 435 MHz DX of more than 3000 kms! We always thought that UHF DX like the California-Hawaii path would be impossible in Region 1. But already rather often tested on 145 MHz, the path between the Canary Islands( EA8) and the UK/Ireland now is used on 435 MHz and I do not see why this tropo duct cannot be used on the microwaves. Who will start exploring 10 GHz ?

Once there will be VHF/UHF activity at the west coast of Africa we probably will see even larger tropo dx. Pity that continental stations only can dream of it.

### **Next Newsletter**

Newsletter nr 38 can be expected mid-December with the contributions for the Vienna meeting attached in pdf format. Please let me know in case your e-mail account cannot accept rather large attachments.