



International Amateur Radio Union Region 1  
General Conference - 16<sup>th</sup> to 21<sup>st</sup> November 2008 - Cavtat, Croatia



<b>SUBJECT</b>	<b>IARU MS report</b>		
<b>Society</b>	<b>Region 1</b>	<b>Country:</b>	
<b>Committee:</b>	<b>C3</b>	<b>Paper number:</b>	<b>52</b>
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## THE MONITORING SYSTEM

**DK2OM - Wolf Hadel**  
**Coordinator IARUMS Region 1**

**DJ9KR - Ulrich Bihlmayer**  
**Vice Coordinator IARUMS Region 1**

### Report 2005 - 2008

This report gives a general overview of the development of the IARU Monitoring System in Region 1 from 2005 to 2008, essential material, goals and dependencies for the success of the system.

#### **Member Societies of IARU-Monitoring System-Region 1 and their Intruder Watch Coordinators (July 2008)**

Currently there are 87 societies in Region 1 with 11 active in the Monitoring System. That is a roughly 13 % of the societies.

It is very important to stay updated with the various societies' board members changes and maintain as updated as possible a list of such personnel. Our aim is to recruit more member societies from countries in Region 1 for the Monitoring System.

In 2008 the member societies of the IARU-MS Region 1 and their MS coordinators are as follows:

**ARSK (5Z4NU, Kenya), DARC (DJ9KR, Germany), IRTS (EI4GXB, Ireland), MRASZ (HA7PL, Hungary), OeVSV (OE3DMA, Austria), RAL (OD5RI, Lebanon), RSGB (G4BOH, Great Britain), SARL (ZS6AKV, South Africa), SRAL (OH2BLU, Finland), USKA (HB9CET, Switzerland), VERON (PA0GRU, The Netherlands).**

IARU-MS-R1 has very close contacts with the coordinators of the IARU MONITORING SYSTEM for Region 2 and 3. These coordinators are exchanging views and soundfiles with Wolf and Ulrich by email. As Wolf uses a very expensive and sophisticated software of the Swiss WAVECOM Company he has become a perfect expert for the detection and evaluation of digital signals. His advice is estimated very much in all three IARU Regions.

#### **IARU-MS-R1 Newsletters and Publications in Amateur Radio Magazines**

The internet is the most important media for the Monitoring System. It allows to communicate very quickly with the relevant Amateur Radio organizations. Also it is very helpful to stay in contact with the member societies and contributing amateurs.

From 2005 - 2008 Wolf DK2OM and Ulrich DJ9KR edited and published about 30 newsletters in English language for IARU-MS-R1 homepage, one for each month. All these newsletters (and the newsletters of previous years) can be found on the homepage of IARU-MS. DARC, the German Amateur Radio Club, is sponsoring this homepage.

Also regular intruder reports can be found every second month in CQ-DL-magazine (one full page), the official DARC pamphlet. The author is Ulrich. Besides this written monthly report a short version of this monthly report is aired by the DARC club broadcast "Deutschland-Rundspruch" on various SW, VHF and UHF frequencies. Furthermore Wolf is a regular editor in "Funkamateure", a commercial German amateur radio magazine to report about the situation of intruders in our ham bands.

## The Homepage of DARC-MS-R1: <http://www.iarums-r1.org>

Wolf is the Sysop of the IARU-MS-R1 homepage. He is regularly updating the German and the English version on one server. This makes the home page very much up-to-date.

The screenshot shows the homepage of the IARU Region 1 Monitoring System. The header includes a blue banner with a map of Europe, a satellite dish, and the text "IARU Region 1 Monitoring System powered by DARC". Below the banner, the date "21.06.2008" is displayed. The main content area is divided into three sections: "IARU Monitoring System" (UK flag), "DARC Bandwacht" (German flag), and "DARC Bandwacht" (German flag). The left sidebar contains links for "Soundfiles", "Latest Intruder News", "Important Links", "Successful Actions", "Newsletter 2008", "Fishery buoys on 10 m", "IARU-MS Region 3", "Frequency Allocation Table", "IARU Region 1 HF Bandplan", "Monitoring Template", and "Co-ordinator's Corner". The right sidebar contains links for "Die Bandwacht des DARC", "Bandwacht-Tipps", "Aktuelle Eindringlinge", "Bandwacht-Mitarbeit Powerpoint 2,6 MB", "Erfolgreiche Aktionen", "Hamradio 2008 - Bandwachttreffen", "Berichte 2008", "Berichte 2007", "Berichte 2006", "Deutsche AFU Calls --- Datenbank der BNetzA", and "Link zum HF/Technik Referat des DARC".

### The left side of the homepage of IARU Monitoring System-Region 1:

The "**Soundfiles**" help to classify and identify the emissions. The folder "**Fishery Buoys on 10 m**" informs about illegal fishery buoys on 10 metres.

"**Latest Intruder News**" is regularly updated by Wolf. It reports the daily changes of the intruder scene. The "**Monitoring Manual**" is very helpful especially to newcomers to get started in the system. The "**Newsletter**" is a compilation of all monthly reports of the participating societies in Region 1. The "**Monitoring Template**" is prepared to fill in intruder reports online and send these to the coordinator. The "**Coordinator's Corner**" from time to time brings comments and explanations on the development of the intruder scene. "**Successful Actions**" highlights the activity of the Monitoring System Region 1, and the "**Image Gallery**" shows pictures of participant people of the System.

### The right side of the homepage of IARU Monitoring System Region 1:

The right side is reserved to the **DARC Monitoring System**. Most articles are from the desk of Uli DJ9KR. The reports dealing with intruders are to inform the German Telecommunications Authorities "Bundesnetzagentur" as well as contributors of DARC-MS, amateur radio societies abroad, and persons interested in the intruder watch.

## Excellent Cooperation of DARC-MS with the German Telecommunications Authorities "Bundesnetzagentur"

The cooperation of the Coordinator (DK2OM) and the Vice Coordinator (DJ9KR) of the Monitoring System of DARC and Region 1 with the German telecommunications authorities "Bundesnetzagentur" is excellent: The engineers of the "German Government Monitoring and Receiving Station" of Bundesnetzagentur at Konstanz are very obliging and are handling the Reports of Harmful Interference of IARU-MS-R1 very quickly and effectively. Cooperation is on a very friendly basis. During the last years Wolfgang Hadel had telephone contacts with Bundesnetzagentur almost every day reporting harmful intruders to the officers.

In November 2007 Wolf was invited for a two days meeting at Bundesnetzagentur Konstanz to discuss and exchange easy ways and "tricks" in detecting and taking the finger prints of digital intruders by means of WAVECOM equipment.

From 2005 - 2008 German Bundesnetzagentur filed 78 **International Complaints of Harmful Interference** to various telecommunications authorities abroad:

BC interferences by intermodulation, spurious and harmonic transmissions, radar systems, illegal private traffic, embassy traffic, and illegal digital emissions.

## Successful Actions in 2005 – 2008 (Highlights)

Harmful interference by the so called **Hainan Firedragon Music Jammer** of the Government of the Peoples Republic of China in various amateur radio band was tracked by various telecommunications authorities in Region 1. They sent official "Complaints of Harmful Interference" to the Chinese telecommunications authorities.

Also Ulrich DJ9KR many times contacted the Chinese Embassy in Berlin directly by telephone, email and fax and the Chinese authorities in Beijing and the President of the Republic of China (Taiwan) by Fax and email. Finally this led to the closing down of the music jammer at least in our exclusive amateur radio frequencies.

Unfortunately since mid May 2008 the music jammer is back because BC station **Sound of Hope** has invaded again into the 20-m-band. 14005 kHz is a frequency often affected in the afternoon by both stations.

The good contacts of RSGB-Intruder Watch with their telecommunications authorities "OFCOM" and collaboration with Bundesnetzagentur (the latter took an exact fix of the offender) realized the fast removal of a **Stanag-4285-NATO-System** from Greece on 14003 kHz. The system had left the frequency after a few hours. Furthermore DK2OM could achieve the removal of 5 military system from our bands within 14 days.

So called "**Irish Church Broadcast**" was often heard in 2007 in FM in the lower part of the 10-m-Band. Ulrich DJ9KR pin pointed transmitters in two Catholic churches in the Irish Republic. An official complaint by the German authorities in Dublin together with the help of amateurs of IRTS led to the "removal" of the transmitters and aerials.

Also direct email contacts of Ulrich between **TRT Radio Ankara (21140 kHz)** and **All India Radio (7065 - 7070 kHz)** have stopped harmful interference caused by their BC transmitters on exclusive Amateur Radio frequencies.

Another success was the removal of a **spurious transmission of Deutsche Welle**, the Voice of Germany, on 7010 kHz. This was in March 2007 after complaints by DARC-MS.

A 6-kHz wide **DRM Signal of Technical University of Delft**, The Netherlands, had to shift from 18100 to 29200 kHz after complaints of DARC-MS, German Bundesnetzagentur and the VERON Intruder Watch Coordinator Dick PA0GRU.

### Still Harmful Interference by Single-Letter-Beacons, Broadcasters, Teleprinters, Multiplex Stations, Fishnet Beacons, BC Sound of Hope (TWN), the Firedragon Jammer (CHN), and private Intruders

It is deplorable that, since many years, the so called **Single-Letter-Beacons** C (Moscow, RUS), D (Sevastopol, UKR), M (Magadan, RUS), P (Kaliningrad, RUS), V (Tashkent, UZB) have been transmitting their ID without interrupt around 7039 kHz. Also BC stations like **Voice of Korea (North)** (KOR) on 3560 and 7100 kHz, and **Voice of the Broad Masses of Eritrea** on 7100 kHz (ERI) have been abusing Amateur Radio frequencies for many years.

After some BC stations having left the range 7100 kHz to 7200 kHz immediately **military stations** from RUS have occupied their frequencies.

Also the **British Over-The Horizon-Radar** from Akrotiri, CYP, in 2007 and 2008 has caused much interference by transmitting in Bands 10, 14, 18 and 21 MHz.

In 2008 the **Codar HF Ocean Wave Radar** in Naples (Italy) daily disturbed the 24 MHz band. It could be heard in Germany under Sporadic-E conditions. The German PTT have sent an official complaint to the Italian authorities.

If you carefully monitor the exclusive bands you can find dozens of intruders in spoken voice (SSB, FM) on various frequencies. These intruders are **fishermen, lorry drivers and CIS taxi cabs** and just "**private illicit**".

Also during Sporadic-E-conditions you can hear hundreds of **fishnet buoys** with their one- or two letter calls in the 10-m-band. Their location is possibly the Mediterranean Sea or the Atlantic Ocean.

**Financial:** The budget plans from 2005 - 2008 were prepared by DK2OM and accepted by the IARU Region 1.

Respectfully submitted by  
**Wolfgang Hadel DK2OM**  
IARU Monitoring System Region 1 Coordinator

**Ulrich Bihlmayer DJ9KR**  
IARU Monitoring System Region 1 Vice Coordinator

State: July 2008

## The Development of IARU Monitoring System Region 1 from 2005 to 2008

**2005**

The new (old) "Co-ordinator Twins" in front of the IARU Region 1 Conference station in Davos, Switzerland:



left: DK2OM – Wolf Hadel – Co-ordinator IARUMS Region 1 / DARC MS Vice Co-ordinator  
right: DJ9KR – Uli Bihlmayer – Vice Coordinator IARUMS Region 1 / DARC MS Coordinator

**2006**

Ham Radio Fair 2006 in Friedrichshafen, IARUMS Region 1 Meeting, German Monitoring System Meeting, lectures of DJ9KR and DK2OM.



**Ham Radio Fair Friedrichshafen 2006:** (left to right) DJ9KR (Uli), HA7PL (Laci) and DK2OM (Wolf)





**Ham Radio Fair 2006:** DJ9KR (Uli), G3PSM (Colin), DK2OM (Wolf), G3WKL (John)

## 2006

The Austrian intruder watch is relaunched in December 2006. OE3DMA, Alex, the new Co-ordinator of the Austrian MS, is welcomed to our IARUMS Region 1 Monitoring Team.

## 2007

The new USKA MS Co-ordinator is HB9CET, Peter (elected in January 2007). Peter is welcomed to our Monitoring Team.

## 2008

The intruder watch of the Irish radio amateur organization IRTS elects EI4GXB, Ger McNamara, as a National Co-ordinator of IARU-MS Region 1.



**EI4GXB, Ger McNamara, in front of his rig.**

**2008**

Unofficial IARUMS Region 1 Meeting at Ham Radio Fair in Konstanz with lectures of DJ9KR and DK2OM.



**Ham Radio Fair 2008 at Friedrichshafen, Lake Konstanz – unofficial IARUMS Region 1 Meeting**

**from left to right: DK2OM, HA7PL, HB9CET, 6W1KI, DJ9KR**

**Compiled by:**

**Ulrich Bihlmayer DJ9KR / DL0IW  
Coordinator of DARC MONITORING SYSTEM  
Vice Coordinator of IARUMS Region 1**

**Wolfgang Hadel DK2OM  
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**State: 1 July 2008**

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Ministry of Information Industry  
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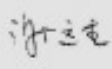
Our Ref. RG/184/2008  
Beijing, P.R. China  
June 18, 2008

TO: Deutscher Amateur  
Radio Club  
Fax: +49-7071-82419  
Phone: +49-7071-82419

Subject: Harmful Interference to Exclusive Amateur Radio Frequencies  
Reference: Your letter on 9 June 2008

Dear Sir or Madam  
The Administration of the People's Republic of China acknowledges receipt of your letter. At present, it is under investigation. Once the interference is identified, we will take measures to eliminate it. If the similar issue occurs again, it will be appreciated if you can file an interference complaint through the German Telecoms. Authority to this Administration. In accordance with 15.34 of Radio Regulations.

Best wishes,

Yours faithfully,  
  
Xie Yuzheng  
Deputy Director General  
Radio Regulatory Department  
Ministry of Information Industry  
China

**DJ9KR received this letter after he had complained of the Hainan-Jammer on 14 MHz.**