



THE MONITORING SYSTEM Annual Report 2013

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Vice Coordinator IARUMS Region 1

This report gives a general overview of the development of the IARU Monitoring System in Region 1 in 2013, essential material, goals and dependencies for the success of the system.

Member Societies of IARU-Monitoring System-Region 1 and their Coordinators

Currently there are 87 societies in Region 1, 26 are represented in the Monitoring System, roughly 30 % of all societies.

It is very important to stay updated with the various societies. Our aims were to recruit more member societies from Region 1.

In January 2014 the member societies of the IARU-MS Region 1 and their MS coordinators are as follows:

Austria: OE3GSA, Gerd Schweidler	bandwacht@oevsv.at
Belgium: ON4PN, Patrick Najlepszy	patnaj@gmail.com
Egypt: SU1SA, Sayed	kh_sayed@yahoo.com
Finland: OH2BLU, Pekka Kemppinen	oh2blu@gmail.com
Germany: DK2OM, Wolfgang Hadel	bandwacht@darcd.de
Great Britain: G4BOH, Chris Cummings	cc@comcen.org
Hungary: HA7PL, Laszlo Dallos	ha7pl@freemail.hu
Ireland: EI5DD, Steve Wright	wrights1@eircom.net
Israel: 4Z1AB, Amos Barak	4z1ab@iarc.org
Italy: DH7SA, Salvatore Salanitro	dh7sa@darcd.de
Kenya: 5Z4NU, Ted Alleyne	alleyne@AfricaOnline.Co.Ke
Kuwait: 9K2RR, Faisal Al-Ajmi	9k2rr@9k2rr.com
Lebanon: OD5RI, Riri Azrak	ririazrak@gmail.com
Malta: 9H1M, Dominic Azzopardi	dominic@esclmalta.com
Netherlands: PA2GR, Dick van Empelen	dick.pa2gru@ziggo.nl
Nigeria: 5N9AYM, Yusuf Abdulmumini	abdulmuminiy@yahoo.com
Norway: LA4EU, Hans Arne Oestlund	la4eu@online.no
Poland: SP3SUZ, Wladyslaw	sp3suz@pzk.org.pl
Portugal: CT4AN, Jose Francisco de Almeida	ct4an.radio@gmail.com
Romania: YO9RIJ, Petrica Stolnicu (ARR, non-official IARU)	yo9rij@gmail.com

Slovenia: S56ZDB, Darko	darko.bulat@ceterum.si
South Africa: ZS1FCS, Fred Scheepers	zs1fcs@telkomsa.net
Spain: EB1TR, Fabián Malnero	iarums@ure.es
Sweden: SM5-125, Ullmar Qvnick	veriori2000@yahoo.se
Switzerland: HB9CET, Peter Jost	bandwacht@uska.ch
Tunisia: DL1BDF, Mustapha Landoulsi	dl1bdf@darc.de

IARU-MS-R1 had very close contacts with the coordinators in Region 2 and 3. These coordinators were exchanging mails and sound files with Wolf and Peter by E-Mail. As Wolf and Peter use sophisticated professional software from WAVECOM in Switzerland, they have become experts for the detection and evaluation of digital signals. Their advices are estimated in all three IARU Regions. Many thanks to WAVECOM for hard- and software support and also to the Plath Company for support and software!

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

The internet is the most important tool for the Monitoring System. It allows communicating very quickly with the relevant Amateur Radio organizations. Also it is very helpful to stay in contact with the member societies and contributing amateurs by "Intruder Alert", connecting 147 people of the Monitoring System worldwide. In 2013 Wolf, DK2OM, edited and published 12 newsletters in English language for IARU-MS-R1 homepage, one for each month. DARC, the German Amateur Radio Club, is sponsoring this homepage. DK2OM is acting as sysop since 11 years. Also regular intruder reports can be found every second month in CQ-DL-magazine (one full page), the official DARC pamphlet. 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 "Funkamateuer", a commercial German amateur radio magazine. He reports about the situation of intruders in our ham bands.

Peter, HB9CET published in the USKA magazines, maintains a Bandwacht webpage within the USKA homepage and holds regularly lectures about radio monitoring.

Excellent Cooperation of DARC-MS with the German Telecommunications Authorities "Bundesnetzagentur" (Federal Network Agency)

The cooperation of the Coordinator (DK2OM) 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 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 2013 the German Bundesnetzagentur "Federal Network Agency" filed 19 International Complaints of Harmful Interference to various telecommunications authorities abroad dealing with BC interferences, intermodulation products IM3 of BC), spurious and harmonic transmissions, radar systems, illegal private traffic, embassy traffic, military, and illegal digital emissions. All official complaints by the German BNetzA in 2013 were initiated by DK2OM.

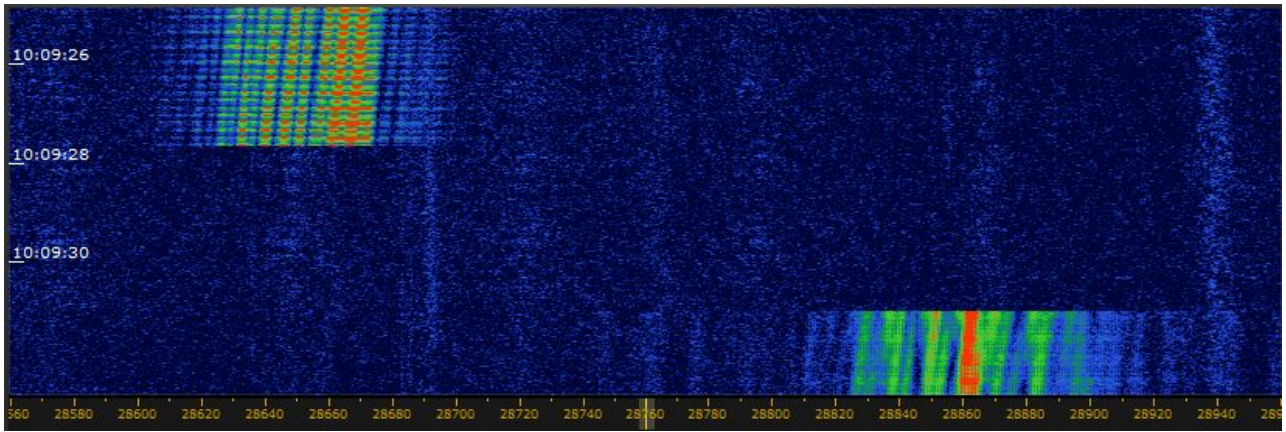
Also the relation between Peter (HB9CET) as vice-coordinator with the Swiss authorities "BAKOM" (OFCOM) is excellent and very helpful. As well Peter acts as liaison officer to BAKOM.

Some Highlights of Actions and Observations in 2013

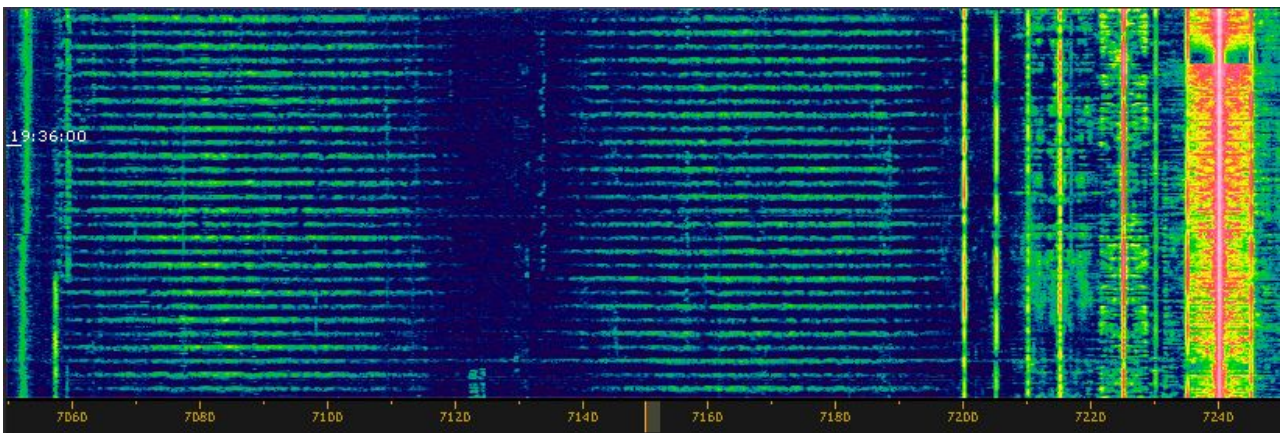
The number of OTH radars was and is still increasing. Chinese radars disturbed 3.5, 7, 14 and 21 MHz with burst signals or long lasting emissions. Further emissions came from Australia, Cyprus, France, Iran, Turkey, UK and Russia.

Iran radar on 28 MHz – jumping version. The signals were 50 kHz wide and produced splatters of ± 300 kHz. An official complaint by the German and other European PTTs brought no results. Screenshot by DK2OM (next page)

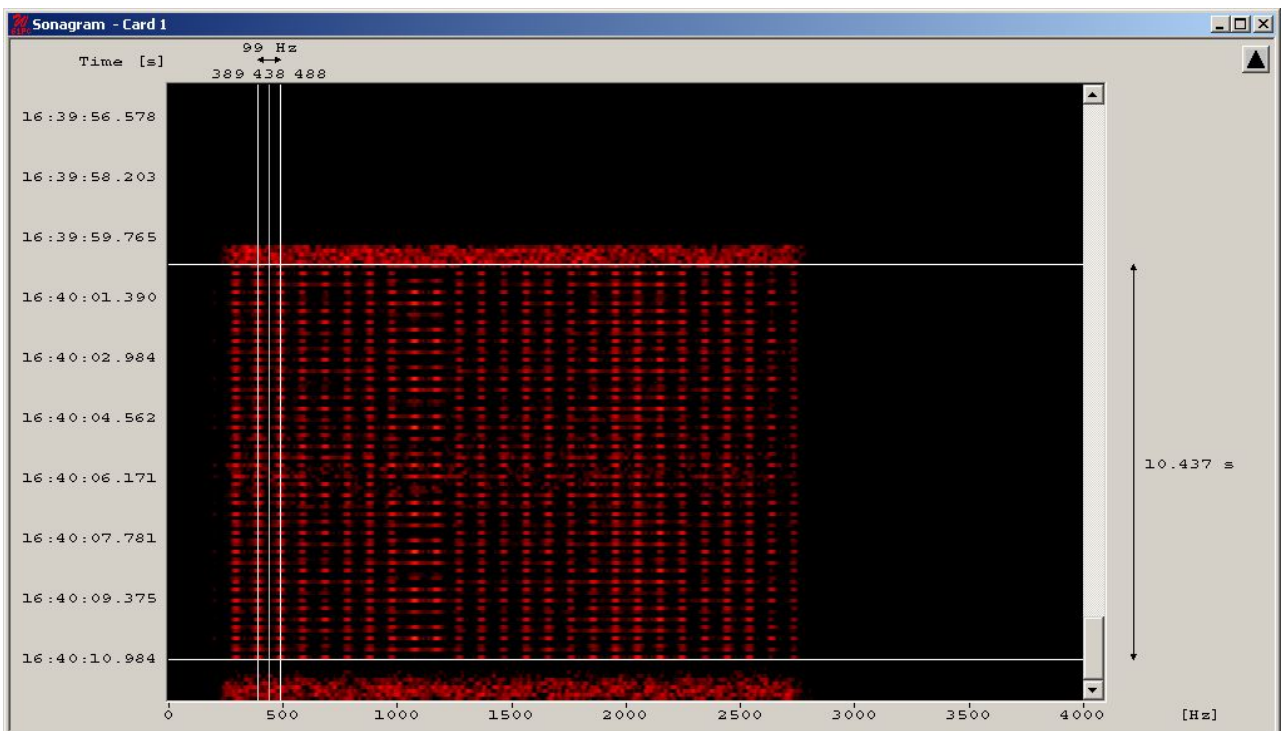
Iran Radar:



Chinese radar on 7 MHz – often audible in Europe during evening hours. USA west coast was affected, too.
Screenshot: DK2OM



French military burst radar on 21000 MHz. A complaint was not observed.
Screenshot: DK2OM



BC Stations still transmitting in the 40-m-Band, 7000 – 7200 kHz

- 7120 **Radio Hargeysa**, location Somaliland, in the north of Somalia, SOM. 1st heard in Germany 13 September 2012, times to be heard in Germany 0330 (sign on), fading out around 0530, again s/on at 1530 and s/off at 1903, mostly transmitting “Horn-of-Africa-Music”.
- 7195 **Radio Uganda**
- 7200 **Sound of Hope (Taiwan) and Radio China International**

There may be more BC stations active in the range 7000 – 7200 kHz, however we do not hear them in Germany or have not received reports of harmful interference.

After some BC stations had left the range 7100 kHz to 7200 kHz, some military stations occupied these frequencies.

The Situation on our Bands in December 2013 (Overview):

1. Illegal fishery buoys 28000 – 28500 using A1A
2. Illegal Datawell Waverider buoys: 29525.0 (Casablanca), 29500 (Gibraltar) and 29450 (El Ayùn) F1B, 81.9 Bd, 140 Hz shift
3. Illegal buoys 28025 and 28100 - F1B, 51 Bd, 300 Hz shift – GPS driftnet buoys
4. Illegal CIS taxi traffic in F3E on 28 – 29.7 MHz – mostly from Russia
5. Illegal taxi traffic in F3E in Barcelona and Tenerife (Spain) on 2m band
6. Illegal Safari and hunting services in Africa – often on 7 MHz
7. Illegal missionary traffic on our bands in Africa
8. Illegal fishery traffic on all HAM-bands, sometimes using vocoders (like CRY 2001)
9. Illegal CB-like traffic in all parts of the world on 3.5, 7, 14, 21, 24 and 28 MHz
10. Illegal emissions in AM from CIS countries on 3500 – 3600 kHz, 90% from Russia
11. Illegal BCs on 7 MHz
12. Illegal embassy and diplo-traffic on exclusive bands especially from Democratic People Republic of North Korea and China
13. Numerous military services including radar systems and harmonic emissions on all bands
14. Illegal ocean surface radars like CODAR

Pirates are still flooding all shortwave bands and VHF – UHF-bands too. They are not respecting Amateur Radio, maritime distress services or aircraft and emergency traffic systems.

Grateful words:

Many thanks to all involved HAMs and PTTs for the excellent support and many thanks to the national societies, which gave us their help. Last but not least: Grateful words to all IARU Regions and their Presidents and ECs - of course including Tim (VE6SH) and Ole (LA2RR).

Kind regards

Wolfgang Hadel - DK2OM

Coordinator IARU MS R1

Coordinator of DARC Monitoring System

Peter Jost – HB9CET

Vice-Coordinator IARU MS R1

Coordinator of USKA Monitoring System

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