



# International Amateur Radio Union Region 1 VHF - UHF - MW Newsletter

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## **Satellites (contributed by Graham Shirville, G3VZV)**

Here is an update on the availability of satellites operating in the amateur satellite service. We have noted changes that have occurred since the R1 Meeting in Sun City to spacecraft which carry transponders.

Additionally there are many other, non-transponder satellites in operation – see <http://www.amsat.org/amsat-new/satellites/status.php> for the latest information on these.

- AO7 was launched in the 1970's and is still working well when in sunlight. Linear U/V and V/A transponders
- FO29 currently has the V/U linear transponder active
- VO52 recently had a failure of one U/V transponder, but luckily it has been carrying a “spare” since launch and this is now functioning well
- AO27 the V/U FM transponder is active
- SO50 the V/U FM transponder is active
- SO67 carries a V/U FM transponder, but is presently not active
- HO68 the transponder is currently not functioning, but a CW beacon can be heard
- AO51 after seven years of active service this satellite suffered a battery failure in late 2011 and is no longer active
- ARISSAT this spacecraft which was deployed from the ISS in 2011 de-orbited in early 2012.

A number of satellites intended to carry transponders are presently being constructed and have a launch planned:

- FUNcube-1 is scheduled for launch from Russia in late 2012. A single CubeSat with a linear U/V transponder and will also provide telemetry for educational outreach
- Delfi-n3xt is a triple CubeSat which will also carry a linear U/V transponder and is scheduled to be on the same launch as FUNcube-1
- Fox-1 is a single CubeSat which will carry a U/V FM transponder and is expected to be launched by NASA during 2013.

- UKube-1 will be a triple CubeSat which will carry a payload similar to FUNcube-1. It is also expected to be launched during 2013.
- KiwiSat – a multi- functional microsat with transponders from AMSAT-ZL. Construction is nearing completion

### **VHF/UHF/SHF Contest 2012**

2012 saw a basic change in log evaluation. Logs will be evaluated by the Contest Robot. Please submit your logs to the national contest manager, who will check them prior to uploading them to the server.

Only operators who do not have a national contact person will be allowed to upload their logs directly to the server, which can be reached under [iaru.oevsv.at](mailto:iaru.oevsv.at). Logs must be submitted in the EDI format. Please see the information provided under INFO (right hand upper corner).

Certainly the switchover to the server will lead to problems in the first year, but once they have been corrected, all operators will benefit from the fast and reliable evaluation.

We also plan to automatically generate documents to certify certification, using the PDF format, and to distribute them in by the server in an automated mode.

### **EMC**

LED lamps are gaining in popularity. Unfortunately, some models cause heavy interference. Therefore, LEDs may become a serious source of interference, as they are used in many different places inside the house. It is quite interesting to note that there are some models which do not cause any interference at all.

<http://www.youtube.com/watch?v=o8zMhjXcmoA&context=C3fcf83fADOEgsToPDskJhYiM>

The following applications have the potential to cause interference and degrade reception in the future:

- LED lamps (see Thilo's contribution on YouTube)
- Powerline Communication (PLC)
- Plasma TV
- Inverters of photovoltaic equipment

### **2013 Interim Meeting Vienna**

Die Sub Working Group will meet in Vienna between **19. and 21. April. 2013.**

Will you please mark your calendar accordingly. Deadlines for both registration and proposals will be announced in the forthcoming Newsletter.