



The IARU Region 3 Newsletter

Issue 53– Q4 2019, Released January 2020

Editor's Note

Thank you to all those who have contributed to this edition of the Region 3 Newsletter. Happy New Year to all our readers.

During this year the work of many volunteers leading up to and during the International Telecommunication Union's (ITU) 2019 World Radiocommunication Conference (WRC-19) was held over four weeks in Sharm El-Sheikh, Egypt. The outcomes were well as we could expect, given the high demand of radio spectrum in today's modern connected societies. The amateur community worldwide thanks all those people who gave up their time to ensure the best outcome for amateur radio. The outcomes of WRC2019 comes into effect on 1st January 2021, where the new Radio Regulations (RR) enter into force.

As reported previously, as part of the move to new International and Regional websites, all IARU Member Society information will be hosted on the International Secretariat website. Please send any updates to the IARU International Secretariat (secretary@iaru.org) with a copy to the Region 3 Secretary (secretary@iaru-r3.org)

Contributions, including photos, may be sent to me at the email address at the end of the Newsletter. Items appearing in newsletter may be used by societies freely to inform their members.

The deadline for the next edition is 31st March 2020.

73 Peter, VK3MV

A Word from the Chairman

First of all, on behalf the IARU Region 3, I would like to wish all of you a very **HAPPY, PROSPEROUS AND PEACEFUL NEW YEAR 2020.**

WRC 2019 has just concluded and approved an allocation in the 50 MHz band for amateurs in Region 1.

The entire region will have an amateur secondary allocation of 50-52 MHz except in the Russian Federation, whose administration opted for only 50.080-50.280 MHz on a secondary basis. In addition to the new allocation in the table, a number of footnotes were added to accomplish all the different needs. One footnote gives a 4 MHz (50 – 54 MHz) primary allocation to most countries in the Central and Southern part of Africa as well as some of the Arab Gulf states. Another footnote gives 14 listed countries in Europe primary status in the 500 kHz frequency band from 50,0 to 50,5 MHz. Additional footnotes were required to give criteria for protection of the other existing services such as broadcasting, mobile and fixed services that uses the band in Region 1 and

neighboring countries in Region 3. It is mainly former East-European states and some Arab/North-African states plus Iran that have their name in these footnotes. The exact way in which the 50 MHz allocation will be implemented in Region 1 countries will be determined by each administration and may be either more generous or less, depending on national considerations. The existing primary allocation of 50-54 MHz in Regions 2 and 3 is unaffected.

This was a success due to the concerted efforts of a large team from various countries working for IARU.

The trend of disasters also tends to increase from year to year.

The alerting disaster risks include earthquakes, tsunamis, volcano eruptions, floods, landslides, droughts, forest and land fires, tornadoes and extreme weather. The high vulnerability and minimum capacity hold the potential to exacerbate the pre-existing disaster risks.

With this situation, I would like to urge all societies to give more contribution or provide “start up” communications at the first stage of a disaster in your country.

Amateur radio works “when all else fails”.

Thank you and 73 de Wisnu YBØAZ
Chairman of Directors of IARU Region 3

WRC 2019 Outcomes

The World Radiocommunication Conference WRC-19 has approved an allocation in the 50 MHz band for amateurs in Region 1. The decision will now be incorporated in the Final Acts of the conference.

The decision comes after more than three weeks of strenuous negotiations to reconcile widely disparate views of Region 1 administrations. The result is a dramatic improvement in the international Radio Regulations for amateurs in Region 1. Before WRC-19 there were only 11 countries in Africa with a primary allocation in the band. When the Final Acts take effect, there will be 44 countries in Region 1 with a primary allocation of at least 500 kHz including 26 countries with a primary allocation of the entire band 50-54 MHz. The entire region will have an amateur secondary allocation of 50-52 MHz except in the Russian Federation, whose administration opted for only 50.080-50.280 MHz on a secondary basis. There are provisions

to protect the other existing services that use the band in Region 1 and neighboring countries in Region 3. The existing primary allocation of 50-54 MHz in Regions 2 and 3 is unaffected. The exact manner in which the allocations will be implemented in Region 1 countries will be determined by each administration and may be either more generous or less, depending on national considerations.

The WRC-19 decision on its agenda item 1.1 is the culmination of years of effort by the IARU and its member-societies, mainly in Region 1 but with support from the other two regions. The ITU Radiocommunication working group in which preparations were conducted was chaired by Dale Hughes, VK1DSH, of Australia who also was chosen to chair the sub working group dealing with the item at the WRC. The sub working group, designated 4C1, held 10 meetings before reaching an agreement that could be forwarded to Working Group 4C where additional discussions and adjustments took place. Committee 4 received the output of 4C on Tuesday, 12 November and performed additional fine-tuning before recommending the results for adoption by the conference Plenary. Consideration by the Plenary was delayed while a narrow issue in one footnote was resolved.

IARU Vice President Ole Garpestad, LA2RR, who is attending the WRC as a member of the Norwegian delegation, observed: "The successful outcome on Agenda Item 1.1 could only have come about through a team effort by the IARU member-societies and regional organizations, and especially by the volunteers who have devoted countless hours to preparing documents and attending meetings over the past three years. Our thanks go to everyone who has contributed to this effort, including the radio amateurs who support the IARU through membership in the IARU member-society in their country." LA2RR coordinated overall IARU preparations for WRC-19. Dave Court, EI3IO, led the IARU effort on Agenda Item 1.1 which engaged all six regional telecommunications organizations: ASMG for the Arab States, ATU for Africa, CEPT for Europe, RCC for Russia and several countries of the former Soviet Union, CITEL for Region 2, and APT for Region 3. Region 1 Secretary Hans Blondeel Timmerman, PB2T, was coordinator for the item on behalf of CEPT on whose proposal the ultimate compromise was largely based.

IARU-Region-1 have produced a table giving a breakdown of the planned 50 MHz allocation in each of the region's countries

The provisions of the ITU Regulations, as revised by WRC-19, shall enter into force on January 1, 2021.

See the overview of 50 MHz status in ITU Region 1 at http://www.iaru-r1.org/wiki/VHF#50-54_MHz_.286_m.29

Read the post on 50 MHz by IARU President Don Beattie G3BJ <https://www.iaru-r1.org/index.php/174-news/latest-news/1919-wrc19-more-details-on-the-50mhz-changes>

The WIA has provided its members a detailed report from two of its representatives at WRC2019

<https://www.wia.org.au/newsevents/news/2019/20191202->

[1/index.php](#)

IARU, WIA, IARU RI

Philippines: Ham radio nets activated for Typhoon Kammuri

IARU-R1 Emergency Communications Co-Ordinator **Greg Mossop G0DUB** reports information received from **Dani YB2TJV** about Typhoon Kammuri which is affecting the Philippines.

"Due to Kammuri Typhoon that was close to the Philippine , please be informed to keep clear on 3 (three) frequencies below;

7.110 MHz - as CoA EmComm IARU Region 3, was used by The Samar-Leyte hams doing Emcomm

7.090 MHz – was used in DU3 for traffic concerning the evacuation of scouts attending the national jamboree in Zambales

7.095 MHz - as HERO Net is used nationally by Hams in the Philippines"

IARU RI, PARA

Australian Bushfire Emergency 31 December 2019 through 1 January 2020



The WIA has received advice that there are major outages of telecommunications in areas impacted by the bushfires either currently or expected to occur overnight. The scope and range of these impacts are unknown at this stage.

The WIA kindly asks Radio Amateurs to monitor the EMCOM HF frequencies (as per IARU-R3 EMCOM bandplan on the WIA or IARU-R3 website) whenever feasible over the next 24 to 48 hours.

VHF and UHF Repeaters should also be monitored wherever possible.

Amateurs seeking to establish emergency communication should use these EMCOMM frequencies in the first instance, or repeaters if available.

Radio Amateurs who are volunteers for WICEN, CREST, etc. should keep themselves updated from the respective websites of these organisations.

Emergency Communication is one of the three main reasons Radio Amateurs have access to RF Spectrum. Please assist if and when you can.

IARU Region III has adopted the following frequencies as recommended emergency centre of activity frequencies:

- 3.600
- 7.110
- 14.300
- 18.160
- 21.360 MHz.

"Centre of Activity" frequencies are not spot frequencies or net frequencies. They are recommended as starting points for emergency traffic which may extend 5 kHz above or below the designated centre frequency.

Greg Kelly VK2GPK - WIA President

(The bushfires have impacted a number of states and extend over a wide area. In some areas the fires have been burning for several months. Emergency services communications has withstood very well and amateurs in some areas have assisted as communicators in incident control centers. These fires are expected to continue for several months. – Editor)

DK2OM receives IARU Diamond Award



Don Beattie G3BJ reports on the IARU Region 1 site that after many years' involvement in monitoring intruders on the amateur bands, **Wolf Hadel DK2OM**, retired at the end of 2019. Don writes:

Wolf has worked for the DARC monitoring system in Germany for more than 30 years and since 2005 has also coordinated the IARU Monitoring System of Region 1 (IARUMS).

Wolf has made a name for himself over the years as a

committed radio amateur and competent band guard, and he is known for his excellent contacts with the official spectrum monitoring units. At Ham Radio 2016, it was my pleasure to award him the IARU Region 1 medal for his fight against illegal intruders on our bands and to recognize his ongoing exceptional leadership of the successful IARU monitoring system.

Wolf has worked closely with monitoring activities in the other IARU Regions and has built an excellent reputation amongst his colleagues around the world.

Wolf has also worked as a competent specialist author in recent years, together with Peter, HB9CET, and has mainly reported on digital intruders and Over-the-Horizon radars (OTHR) and has published monthly the much-respected IARU MS Newsletter.

In recognition of his contribution to spectrum monitoring over the years, not just in Region 1 but across the whole of IARU, on his retirement Wolf has been awarded the IARU President's Diamond Award for his outstanding contribution to amateur radio spectrum defence through leadership of the IARU Monitoring Service. This is a well-deserved recognition of a very significant contribution to the amateur radio service. I congratulate Wolf on this award and sincerely thank him for his work over the years. We all wish Wolf a happy retirement.

Until the General Conference of IARU Region 1 in October 2020 in Novi Sad, IARUMS Region 1 Vice-Coordinator Peter Jost, HB9CET, will perform these tasks as Coordinator ad Interim, supported by Gaspar Miró, EA6AMM, URE coordinator of the Spanish Intruder Watch. I thank Peter and Gaspar for their willingness to maintain the IARU Monitoring System of Region 1 until the Conference next year.

IARU Region 1 <https://iaru-r1.org/>

IARU-R1 Monitoring Service
<https://www.iarums-r1.org/>

Don Beattie, G3BJ
President IARU Region 1

Winter YOTA - Let's go PA 2019



Winter **Youngsters On The Air** (YOTA) took place December

12-15 in the Netherlands with the theme “Let’s go PA”

The 4th sub-regional Youngsters On The Air event of 2019. 35 Youngsters from 10 different countries took part in the event, held in Oosterhout, The Netherlands.

In 3 days, the youngsters learned a lot about the amateur radio hobby. Many of them discovered new things to delve into, like satellite communications. Many had the opportunity to have their first QSO’s on HF, VHF or via QO-100 using the special event callsign PA6YOTA. This week was also about learning activities and skills which the youngsters can take home to their country and use to get more youngsters fascinated by the hobby. Combining amateur radio with fun activities with like-minded youngsters is the key to spreading the hobby amongst young people.

We also would like to say a big thank you to IARU Region 1, VERON and all other sponsors for making Winter YOTA possible!

Read the full story at
<https://www.ham-yota.com/category/pa2019/>

IARU R1

ARISS Next Generation Radio Systems Readied



During this Holiday Season, when the spirit of giving and receiving gifts reigns high, ARISS received a special gift and delivered a phenomenal gift to the international community. This occurred on Thursday December 19, 2019.

Our international gift to all—students, STEM education, the public and the amateur radio community—was the historic transfer of the first Interoperable Radio System (IORS) flight unit, serial number 1001, to NASA Johnson Space Center for launch on SpaceX-20. The special gift received by ARISS was the approval from NASA Safety to launch the IORS on SpaceX-20 and stow the radio system on the International Space Station. December 19, 2019 was truly a banner day for ARISS!

The IORS is a foundational element of the ARISS next generation radio system and is an incredible engineering achievement by the ARISS hardware team. This first element delivery will support easier radio mode transitions and enable new, exciting capabilities for hams, students and the general public. The IORS will include a higher power radio, an enhanced voice repeater, updated digital packet radio (APRS) capabilities and slow scan television (SSTV) capabilities for both the US and Russian segments. The IORS consists of a special, modified JVCKenwood D710GA transceiver, an AMSAT-developed multi voltage power supply and interconnecting cables.

This first flight IORS will be installed in the ISS Columbus

module. A second flight unit is expected to be launched sometime in 2020 for installation in the Russian Service module. A total of 4 flight units and 10 total units will be built by the ARISS hardware team to support on-board flight operations, training, operations planning and hardware testing. Future upgrades and enhancements to the next generation system are in various stages of design & development. These include a repaired Ham Video system (currently planned for launch in mid-to-late 2020), L-band (uplink) repeater, ground command operations capability, LimeSDR signal reception, a microwave “Ham Communicator” and Lunar Gateway prototype experiment.

While yesterday was truly an historic milestone, it should be noted that there is still much “heavy lifting” work to be done to prepare the IORS for Operations on ISS. ARISS has 92 engineering requirements and our operations Phase III safety review to complete. The space agencies take a position of “Trust but Verify.” Thus, these engineering and safety “verifications” all need to be closed out before the IORS can be unstowed and turned on. This will be the ARISS hardware team’s focus over the next few months.

Also, please remember that ARISS is almost entirely run by volunteers. So donations to the ARISS program for next generation hardware developments, operations, education and administrative functions are always welcome. Please go to <https://www.ariss.org/donate.html> if you want to contribute to our efforts!

In closing, ARISS would like to thank the outstanding contributions of the IORS hardware development team on an incredible radio system. ARISS would like to thank our sponsors and donors for helping us realize the IORS hardware systems. On behalf of the ARISS team, we would like to wish you all a joyful and prosperous Holiday Season—Merry Christmas, Happy Hanukah, and Happy New Year!!

*Frank Bauer, KA3HDO
ARISS International Chair
AMSAT V.P. for Human Spaceflight Programs*

SMOG-P and ATL-1 designated Magyar-OSCAR 105 (MO-105) and Magyar- OSCAR 106 (MO-106)



On December 6, 2019, the Technical University of Budapest's **SMOG-P** and **ATL-1** PocketQubes were launched on an Electron launch vehicle from the Mahia Launch Complex in New Zealand.

SMOG-P and ATL-1 were developed as part of the university curriculum and operated in cooperation with the HA5MRC Technical University amateur radio club. The satellites carry spectrum monitoring payloads and are currently active.

At the request of the Technical University of Budapest, AMSAT hereby designates SMOG-P as **Magyar-OSCAR 105** (MO-105), and ATL-1 as **Magyar- OSCAR 106** (MO-106). We congratulate the owners and operators, thank them for their contribution to the amateur satellite community, and wish them a long mission and continued success on this and future projects.

*Drew Glasbrenner, KO4MA
AMSAT VP Operations / OSCAR Number Administrator*

IARU Region 3 Contacts

Official R3 Contacts. Further information can be found on the Region 3 website: <http://iaru-r3.org/contacts/>

Society Update Officials and Contact Information

As part of the move to new International and Regional websites, all IARU Member Society information will be hosted on the International Secretariat website. A request is extended to all Region 3 Society Liaison Officers or other responsible officers to ensure that all details about their society is up to date on the listings shown at <http://www.iau.org> under member societies. Some details have not been amended or updated for a number of years and have nonfunctional data.

Please send any updates to the IARU International Secretariat (secretary@iau.org) with a copy to the Region 3 Secretary (secretary@iaru-r3.org)

Newsletter details:

Go to the IARU Region 3 Web Site <http://iaru-r3.org/topics/newsletter>

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Region 3 Societies can submit articles for inclusion to the next bulletin by **31st March 2020**.

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IARU Region 3

