



The IARU Region 3 Newsletter

Issue 55– Q@ 2020, Released July 2020

Editor's Note

Thank you to all those who have contributed to this edition of the Region 3 Newsletter.

As you will have noted that due to the COVID-19, many Hamfairs and Conference have been cancelled. The amateur community has responded with on-line and virtual meetings are now taking place.

The R3 Directors have undertaken a virtual meeting and are making arrangements for the next formal Directors' meeting in October to be on line.

Reminders:

IARU HF Contest will be held on the second full weekend of July, beginning 1200 UTC Saturday and ending 1159 UTC Sunday (**July 11-12, 2020**).

Request

The IARU R3 would like to receive digital photos of amateur related activities to be used in its media related publications. Please contact the "Editor" if you can assist.

Next Newsletter

Societies are invited to submit news items that may be of interest to readers. The deadline for the next edition is 30th September 2020.

73 Peter, VK3MV

A Word from the Chairman

Dear IARU Region 3 colleagues,

Over the past 6 months, the world has been living through the global pandemic of COVID-19 which has affected us in many different aspects of life, and leaving us all in a difficult situation. Some amateur radio and IARU activities which has been planned, had to be cancelled, while some other activities are now taking place through virtual means.

On the other hand, this COVID-19 pandemic has led to higher interests in amateur radio, as it allows people from different parts of the world to communicate to each other. It is one of the most elemental ways of communicating between two people, stations or places without having the huge infrastructure. As more and more people are using the newer technology like social media as a way of communication during this pandemic, the older technology can still play an important role. Moreover, amateur radio operators have played an important role not only in emergency coordination during earthquakes, floods, hurricanes, etc., but also during this pandemic, by helping emergency communication for COVID-19.

I hope that all amateur radio in Region 3 and all IARU Region 3 member societies can always stay active in doing amateur radio activities and giving your contribution to the public.

Thank you and 73 de Wisnu YBØAZ

Chairman of Directors of IARU Region 3

IARU paper submitted to CISPR on increasing noise from digital devices

IARU EMC specialists Tore Worren LA9QL and Martin Sach G8KDF have submitted a paper to CISPR concerning the increasing impact of multiple digital devices on the noise levels in the radio spectrum. The paper was considered at the CISPR Steering Committee in May and adopted for circulation to CISPR National Committee for comment as a Committee Draft, with a view to it becoming a CISPR Report. IARU hopes that the result of this will be amendments to the way in which standards are developed, to recognise the need to properly consider the cumulative impact of multiple devices.

IARU Secretary Dave, K1ZZ

ITU WRC-19 Final Acts

The **Final Acts of ITU WRC-19** are available to all for download with no registration or log-in!

The Final Acts WRC-19 constitute a record of the decisions taken at the World Radiocommunication Conference 2019 (WRC-19) that comprises both the new and revised provisions of the Radio Regulations, including all Appendices, and the new and revised Resolutions and Recommendations approved by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

Download the PDF from

https://www.itu.int/dms_pub/itu-r/opb/act/R-ACT-WRC.14-2019-PDF-E.pdf

WRC-19 Final Acts

<https://itu.int/en/mediacentre/Pages/CM01-2020-WRC19-Final-Acts.aspx>

IARU

WIA Announces the Winner of 2019 IARU World HF Championship Contest Region 3 - Michael J Owen - VK3KI Trophy

The WIA is pleased to announce the 2019 winner of the VK3KI Trophy is awarded to, JE6RPM operated by Katsuhiro 'Don' Kondou, JH5GHM. The WIA makes this award to the highest individual scorer in any single operator class to recognise the contribution Michael Owen, VK3KI, (SK) made to amateur radio in Region 3 over many decades.

This year's IARU World HF Championship Contest is on the second full weekend of July, beginning 1200 UTC Saturday and ending 1159 UTC Sunday (July 11-12, 2020).

The IARU advises that it is essential that the global COVID-19 pandemic must be taken into account when planning participation, including by IARU member-society HQ station teams.

Multi Operator and IARU Member Society HQ Station operations must adhere **strictly** to the regulations and physical distancing guidelines issued by the responsible health authorities and the World Health Organization and in effect at the time of the event, **even if observing the guidelines is not legally required in their locations.**

This requirement also applies to Single Operator stations and especially to those hosting guest operators. This may reduce participation but it is vital that the IARU, its member societies, and individual radio amateurs behave as responsible members of the global community.

Further information and the rules can be found at the ARRL site: <http://www.arrl.org/iaru-hf-world-championship>

Japan Expands 160 and 80 Meter Privileges

Effective on 21 April 2020, Japanese amateurs can operate in expanded frequency segments on 160m and 80m bands as described below.

160m band

1,800 — 1,810 kHz All Modes (New segment)
1,810 — 1,825 kHz CW (Existing segment)
1,825 — 1,875 kHz All Modes (New segment)
1,907.5 — 1912.5 kHz CW, NB Data (Existing segment)

80m band

3,500 — 3,520 kHz CW (Existing segment)
3,520 -3,535 kHz CW, NB Data (Existing segment)
3,535 — 3,575 kHz CW, NB Phone/Image (Existing segment) (NB Data allowed for International communication)
3,575 — 3,580 kHz All Modes (New segment)
3,599 — 3,612 kHz CW, NB Phone/Image/Data (Existing segment)
3,662 — 3,680 kHz CW, NB Phone/Image (New segment)
3,680 — 3,687 kHz CW, NB Phone/Image (Existing segment)
3,702 — 3,716 kHz CW, NB Phone/Image (Existing segment)
3,745 — 3,770 kHz CW, NB Phone/Image (Existing segment)
3,791 — 3,805 kHz CW, NB Phone/Image (Existing segment)

Although the newly introduced frequency segments on 160m band are ear-marked as “All Modes”, JARL recommend the usage according to the following bandplan. Narrow Band (NB) means the bandwidths within 3 kHz.

1,800 – 1,830 kHz CW
1,830 – 1,845 kHz CW, NB Data
1,845 – 1,875 kHz All NB Modes

73 de JARL (*Japan Amateur Radio League*)

Huskysat-1 transponder is open

After a week of testing, the transponder on **HuskySat-1** is enabled and

open for use and testing.

It's fairly sensitive, and 5-10 watts is plenty most of the time. There are some fades due to satellite orientation, and some passes are definitely better than others. The operations and engineering teams are also watching a few anomalies. Please keep an eye on the beacon during transponder ops, for those with spectrum scopes. Strong signals may impact the beacon strength.

HuskySat-1 is the Husky Satellite Lab at University of Washington's first cubesat, and the first mission with AMSAT's linear transponder module (LTM-1), a V/u transponder and integrated telemetry beacon and command receiver. UW recently completed their Part 5 operations and have graciously let AMSAT's Part 97 transponder operations commence.

This transponder module is available for use in educational cubesat missions willing to enable the transponder for worldwide use. Contact myself or VP Engineering Jerry Buxton for additional details. Reports and observations are welcome to the [amsat-bb mailing list](#). Congratulations to Husky Satellite Lab, and to the entire AMSAT Engineering team for keeping amateur radio in space. Thanks to Dr. Mark Hammond, N8MH for commissioning and operations support.

HuskySat-1 V/u inverting transponder, 145.910 to 145.940 uplink, 435.810 to 435.840 downlink, telemetry beacon 1200 baud BPSK at 435.800

73, *Drew*
KO4MA
AMSAT VP Operations

15 Canadian CubeSats to launch from 2021

Radio Amateurs of Canada (RAC) report 15 CubeSat satellites are being built by students in Canada, all are expected to carry amateur radio payloads.

The **Canadian Space Agency** has been providing support and guidance to 15 teams of university and college students across Canada who are building satellites. These satellites are in the “CubeSat” format, based on a standardized architecture of 10 centimetre cubes. All 15 proposed satellites will be deployed from the International Space Station (ISS), possibly starting in 2021.

RAC is involved in explaining how, and under what conditions, Amateur Radio can be used for communications with these spacecraft, and a requirement of the frequency coordination process with the International Amateur Radio Union is an endorsement from RAC.

We were aware that the suspension of university classes due to the global pandemic could affect the teams' progress, but I am pleased to report that all of the teams have chosen to use Amateur Radio communications and we continue to receive requests from them, although at a slower rate than in the past. About half of the teams have now received endorsements for their projects from RAC and have sent their proposals to the IARU for frequency coordination.

Designing and constructing CubeSats is a complicated, multi-year process. These projects will develop the students' skills in many facets of engineering, science, technology, business and project management. Once in orbit, the satellites will also assist pure and applied scientific research and some may offer facilities that Amateurs across Canada and around the world can use.

Source RAC
<https://www.rac.ca/the-rac-report-june-2020/>

Canadian CubeSat Project Teams
<https://asc-csa.gc.ca/eng/satellites/cubesat/selected-teams-map.asp>

New Chinese amateur satellites expected to launch in September

Two new Chinese amateur radio satellites are now expected to launch on September 15, 2020.

The first of these satellites, **CAS-7A**, is a 27 kg microsat (750 mm x 650 mm x 260 mm) with three-axis stabilization and several transponders. The transponders include a 15m to 10m linear transponder (H/t), a 15m to 70cm linear transponder (H/u), and a 2m to 70cm linear transponder(V/u). The satellite also includes a 2m to 70cm (V/u) FM transponder.

Several beacons and data downlinks are also featured, CW beacons on 10m and 70cm, 4.8k or 9.6k GMSK telemetry on 70cm, and a 1 Mbps GMSK image data downlink on 3cm for the on board camera. IARU coordinated frequencies for the uplinks and downlinks are listed below.

This launch is also expected to carry **CAS-7C**, a 2U CubeSat with a V/u linear transponder and a CW beacon. Frequencies for CAS-7C have NOT been coordinated by the IARU at the time of this writing. CAS-7C will also deploy a 1 mm diameter 1080 meter long carbon fiber rope. CAS-7A and CAS-7C will launch from Jiuquan Satellite Launch Center into a 500 km sun-synchronous orbit with an inclination of 98 degrees.

Frequencies:

CAS-7A H/t Linear Transponder

Uplink - 21.245MHz through 21.275 MHz

Downlink - 29.435MHz through 29.465 MHz

CW Beacon 29.425 MHz

CAS-7A H/u Linear Transponder

Uplink - 21.3125 MHz through 21.3275 MHz Downlink - 435.3575 MHz through 435.3725 MHz CW Beacon 435.430MHz

CAS-7A V/u Linear Transponder

Uplink - 145.865 MHz through 145.895 MHz Downlink - 435.385 MHz through 435.415 MHz CW Beacon 435.430MHz

CAS-7A V/u FM Transponder

Uplink 145.950 MHz

Downlink 435.455 MHz

4.8k / 9.6k GMSK telemetry downlink - 435.480 MHz

1 Mbps GMSK image data downlink - 10460.00 MHz

ANS, IARU

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 a 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 **30th September 2020**.

Publisher: The International Amateur Radio Union Region 3

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IARU Region 3

