



# International Amateur Radio Union Region 1 VHF - UHF - $\mu$ W Newsletter

Edition 82  
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Jacques Verleijen, ON4AVJ

## Editorial

2019 will be a very important year for our VHF&up community. WRC 2019 will start in a few months, and this will be very important for the future of the use of VHF and certainly microwaves for amateur use. This is not only about the actual agenda items for the conference (mainly the updating 50-54 MHz). But we need to be aware that future agenda points will be pointed out for the next WRC in 2023.

The bands we use above 1 GHz are under pressure from commercial users (Internet of Things, WiFi, 5G, Car communications, etc). However, it will be necessary to promote and use of our bands. During our interim meeting in Vienna this year we did a “try out” on Sunday morning to discuss some problems in amore strategical contest. We had unfortunately no time for discussion and evaluation, but I want to invite all participants to send me their feedback, so that we can prepare the next conference at Novi Sad and discuss more during the conference.

Another important point, also for WRC 2019 is the use of our 50 MHz band. This is also monitored by several Regulators. One of those, who are supporting our interests is the Czech regulator, who is organizing a test. I call every active 6 m Radio Amateur to participate to this test.

## Vienna Interim Meeting 2019

We held our Interim meeting during the weekend of 27- 28<sup>th</sup> of April, like always in Vienna. There were 37 documents to discuss during that weekend. In fact, during one day because the Sunday morning was addicted to think about improving activity on our bands.

I would like to thank all participants for the fine cooperation and the effectiveness of our meeting. Performing so much work in this small time frame proved that we can be very effective and that we can spend more time in the future for more discussions about the future of amateur radio on our bands, than the traditional discussions about bandplanning and contesting.

In annex you will find the official minutes of our Vienna C5 meeting.

This year the meeting of the EC was held before our Interim meeting, so that the recommendations of this interim meeting needs to be confirmed by the EC during their next virtual meeting.

Until then no recommendation will be applicable.

After this meeting a new VHF handbook will be published, with all changes (version 8.50).

# Czech Pohotovostní Test

## Introduction

Agenda Item 1.1 for the 2019 World Radio Communications Conference (WRC) invites the WRC to consider an allocation of the frequency band 50-54 MHz to the amateur service in Region 1. The Czech regulator CTO is investigating if theoretical study results match real life situations. An initial trial took place under flat propagation conditions on 28 February 2019 in the Czech Republic. One of the objectives of the test was to verify that military and amateur radio stations could co-exist in the 50 MHz band.

A second test when enhanced propagation conditions are more likely to occur will take place in the Sporadic E season on 13 June 2019. The worldwide amateur community is invited to participate in this second 50 MHz activity day, called Pohotovostní test or P-test.

During this event other users of the 50 MHz band will operate their own professional communication systems. These stations **MUST** not be jammed or interfered with. The purpose of this event is to show regulators that amateurs and military stations can coexist without causing harmful interference to each other. This event will be monitored by the Czech authorities and maybe other regulators, as well as other professional users (mainly governmental including military users). It is expected and hoped that the results of this second international trial will provide similar results to those recorded in the first national Czech trial.

## Background for POHOTOVOSTNÍ test

Pohotovostní is Czech for readiness or willingness to participate. In the past the word was used by the former headquarters of the Czech amateurs to demonstrate that amateurs are valuable for Public Protection and Disaster Relief as first responders. During the past 20 years two or three such activities were organized, being announced in the media with a very short notice period for radio amateurs. The 28 February pohotovostní was announced about 2 weeks in advance, still following the original idea of emergency preparedness.

## Rules

- Date: 13 June 2019
- Time: 1st activity period 07:30-09:00 UTC (09h30-11h00 CEST)  
2nd activity period 11:00-12:30 UTC (13h00-14h30 CEST)
- Calling: CQ P (CONTEST)
- Information to be exchanged:  
RST (RS) + Number of QSO from 001 + 6-digit WW-locator + name of the QTH. During the second activity period start from 001 again. For instance: 579 011 JO70fb PRAHA
- Maximum output of transmitter:  
25WPEP transmitter output power (the maximum power in Czech Amateur radio service regulations). Foreign stations are requested to use the same output power to enable comparisons with the first test on 28 February.
- Categories: One common category
- The use of spotting networks is permitted.
- Points:  
1 point for 1 km of distance of each QSO. A QSO with the own locator scores 1 point.  
Extra points can be collected for each correctly received QTH – 10 points for each new QTH.  
The same stations may be contacted in both activity periods, in three different modes (CW, SSB, digimodes). The total score is the sum of all “km” points + the sum of QTH points collected from the two activity periods.
- Logs are to be submitted not later than 48 hours after the end of the contest (14 June 2019 12:30 UTC) to [rtty@crk.cz](mailto:rtty@crk.cz)

- The log should have a plain text header containing in an understandable format:
  - the name of the contest: Czech Pohotovostní Test
  - date: 13 June 2019
  - your callsign
  - Maidenhead locator (Six digit)
  - the name of the QTH used during the contest
  - Total Number of QSOs:
  - Number of SSB QSOs:
  - Number of digital QSOs:
  - Number of CW QSOs:
  - Number of QSOs with QTH received:
  - SUM of km points for all modes
  - SUM of QTH points
  - total SUM of points
  - Name of the operator
  - email address of the operator
  - used transmitter or transceiver
  - used antenna
  - used power
- LOGs in any readable format must be attached, most common logging formats will be accepted, including common formats like txt, doc, odf, xls etc. Please do not use pdf. Time must be in UTC.
- Logs must include a declaration that:
  - the rules of the test and the national amateur regulations have been observed,
  - the data submitted is correct.
  - the log data can be used for evaluation purposes by CRC and the Czech Regulatory Authority, and in documents intended for submission to CEPT, ITU and within the amateur community.
- To count the “km points” you might use any convenient VHF/UHF log or a calculator can be found in many places over the internet. For instance <https://www.chris.org/cgi-bin/finddisor> <http://www.radio-foto.eu/radio/locator.php> and many others.
- CRC will share the logs with CTU. The results will be published on [www.crk.cz](http://www.crk.cz) and distributed to all participants by email.

On behalf of Czech Radio Club, Jiri OK1RI and Milos OK1MP

**Note:**

We would like to involve amateur stations experimenting with wideband modes in this test e.g. reduced bandwidth digital television or other wide-band emissions. Such stations would need to participate in the 2nd activity period. If there are any such stations wishing to participate in this test, they should contact EI3IO at [EI3IO@connogue.com](mailto:EI3IO@connogue.com)

***By participating in this test, you may help the amateur service obtain spectrum with a suitable status in all or part of the 50-54 MHz frequency band.***

## Useful Information

C5 Chairman: Jacques Verleijen, ON4AVJ  
C5 Vice chairman: Jann Traschewski, DG8NGN  
Contest co-ordinator: Alex Carletti , IV3KKW  
Beacons co-ordinator: Mathias Klug, DH4FAJ  
Satellite co-ordinator: Graham Shirville, G3VZV  
Spectrum specialist: Murray Niman, G6JYB

Website: <http://www.iaru-r1.org/index.php/vhfuhsshf>

Handbook: Current Edition: v8.12:  
<https://www.iaru-r1.org/index.php/downloads/func-startdown/1008/>

Newsletters: <http://www.iaru-r1.org/index.php/documents/Documents/Newsletters/VHF-Newsletters>

Wiki <http://iaruwiki.oevsv.at>

Contest robot [http://iaru.oevsv.at/v\\_upld/prg\\_list.php](http://iaru.oevsv.at/v_upld/prg_list.php)

### Mailing list VHF managers and liaison officers

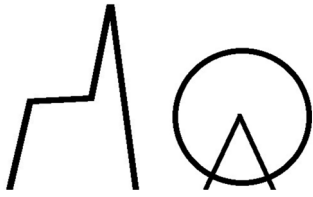
If you are not on this mailing list and you are a VHF manager of your country please send a mail to [ON4AVJ@uba.be](mailto:ON4AVJ@uba.be)

### Use of the IARU R1 C5 Wiki

If you are an official Member Society representative, but have no login and you want to participate to the discussions on the Wiki, please write a mail to [ON4AVJ@uba.be](mailto:ON4AVJ@uba.be).

## Annex 1:

### Official Minutes of the C5 meeting 2019 in Vienna



VIENNA 2019



**INTERIM MEETING OF VHF & up Committee of IARU REGION 1  
VIENNA April 27th – 28th 2019**

<b>Subject</b>	<b>Committee C5 Minutes</b>	<b>Society</b>	<b>VHF/UHF/SHF Committee</b>
<b>Committee</b>	<b>C5</b>	<b>Chairman</b>	<b>ON4AVJ</b>
<b>Secretary</b>	<b>DJ3HW</b>	<b>Status</b>	<b>Official</b>

## **1. Opening by the chairman**

### **1.1. Introduction of delegates**

ON4AVJ welcomes the delegates from 18 Member Societies (MS) (see Annex 1)

### **Meeting rules (Bye-Laws)**

ON4AVJ explains the rules for voting in accordance with the Bye-Laws B 3.23.1, which demands a two thirds majority. (12 votes out of 17/18 MS present are required):

VERON, NRRL, UBA, DARC, RSGB, USKA, SARA, CRC, SRAL, ÖVSV, ARI, HRS, REF, SSA, URE, EDR and MRASZ. IRTS from 10:20AM to 12:00PM and from 14:40PM to 18:30PM 27<sup>th</sup> April and 28th.

### **1.2. Setting up secretary**

DJ3HW was appointed as secretary for the meeting.

### **1.3. Check on documentation**

ON4AVJ presented the agenda and documents to be discussed.

## **2. Chairman's Documents (C5\_04/C5\_05)**

### **2.1. Chairman's Report**

ON4AVJ gave briefing about the period since Landshut about the C5 activities.

### **2.2. Sit Rep after Landshut Conference**

ON4AVJ presented the progress report on the Landshut Action Items with three remarks:

- Seven Newsletter were published

- Two Rec from Landshut need further action:
  - Interoperability between digital modes and networks: input from the Member Societies (MS) is needed!
  - Guidance about shared licence access: MS need guidance and PRC to follow this up.
- Chairman's To-Do-List:
  - Standing action from last General Conference:
    - LA17\_C5\_002 (protection of our bands by the regulators)
    - LA17\_C5\_014 (protection of 24 GHz and 47 GHz)
    - LA17\_C5\_015 (promotion of  $\mu$ Waves bands)
  - Special attention to:
    - LA17\_C5\_022 (Digital voice interoperability)
    - LA17\_C5\_024 (Shared license access) special attention also for the Radio Spectrum Policy Group (RSPG).

### 3. Reports from the coordinators

#### 3.1. Report of satellite coordinator (C5\_11 and C5\_11 Annex)

G3VZV presented the report of satellite coordinator. G3VZV additionally reports about the new QO-100 and the possibilities with this new satellite and hold a presentation during joint session with C4 and C7.

#### 3.2. Report of the DX-Record-Coordinator (C5\_22)

ON4AVJ presented the report. He emphasized:

- During 2018 15 new records has been claimed
- Recalculation with the same program.
- See the list at: <https://vushf.dk/iaru-reg-1-dx/>

#### 3.3. Report of the Contest Working Group (C5\_31)

ON4AVJ thanked S53WW for his work chairing the WG. He presented the report and emphasized:

- Survey about contesting was done
- Based on this survey contest rules were modified.
- Contest rules will not change for 3 to 5 years
- Work still to be done:
  - Financing the contest robot (see also C5\_07, C5\_35)
  - Confirm compliance with GDPR
  - Future and ownership of the contest robot (see also C5\_08, C5\_35)

#### 3.4. Report of the VHF-Beacon-Coordinator

DH4FAJ presented the report. He emphasized:

- It was needed to start from scratch with a new database, because the available information was outdated
- The result: a new database: [www.iaru-r1-c5-beacons.org](http://www.iaru-r1-c5-beacons.org) which became the master reference for (VHF-) Beacons in IARU-R1

Result of the discussion:

- a.) DH4FAJ will provide an export format (like .csv) on the Website soon.
- b.) An official letter from IARU to IOJX to be issued by C5 chairman to move his beacon to an appropriate frequency.
- c.) DH4FAJ is responsible for coordinating the synchronized beacons

#### 4. VHF Managers Handbook:

ON4AVJ clustered the related documents for discussion and voting.

##### 4.1 Document C5\_026:

RSBG proposed a fully separated Contest Handbook within the responsibility of the Contest Working Group (CWG)

All other items should be held in the current VHF-Handbook.

##### 4.2 Document C5\_33:

The proposal in Landshut was that two Versions (8.02 and 8.12) of the VHF-Handbook are to be presented to the C5 in the interim meeting in Vienna with different structures.

All contest related topics were handled by the CWG and edited in the VHF-Handbook by them.

##### 4.3 Document C5\_03:

There was no formal decision in Landshut about the partition of the Handbook  
Both partitions were presented, as promised

This meeting needs to decide the approach:

On "Who is the user"

On "Content"

##### 4.4 Document C5\_13:

Several DV modes are in use (DSTAR, DMR, Fusion, etc.) on the bands.

This needs to be incorporated in the VHF Handbook.

##### 4.5 Document C5\_14:

All editorial corrections will be done by the next revision.

#### Recommendations:

a.) **VIE19\_C5\_Rec\_01: The VHF-Handbook to be separated in a VHF-Managers Handbook and a VHF-Contest Managers Handbook.**

7 in favour, 9 against, 1 Abstention

**The separation of the Handbook was rejected.**

b.) **VIE19\_C5\_Rec\_02: The future format of the VHF-Handbook to follow Version 8.02 or 8.12.**

The Committee voted unanimously in favour of Version 8.12.

#### 5. Bandplaning

##### 5.1. 70cm (C5\_10):

###### Background:

- Repeater shifts with 1.6 MHz are not the standards.
- However, these are, due to national limitations.

- The most used shift in R1 is 7.6 MHz
- 12.5 kHz channel spacing is cur the standard

**Proposal:**

- Change the band plan as proposed in revised document C5\_10A

**Recommendation:**

**VIE19\_C5\_Rec\_03:**

To change the bandplan as follows in the USAGE section:

431.050 – 431.9875 Repeater Input Region 1, 12.5 kHz spacing, 7.6 MHz shift (f).  
 438.650 – 439.5875 Repeater Output Region 1, 12.5 kHz spacing, 7.6 MHz shift (f).

To delete from the bandplan in the USAGE section:

433.000 – 433.375 Repeater Input Region 1, 25 kHz spacing, 1.6 MHz shift.  
 434.600 – 434.975 Repeater Output Region 1, 25 kHz spacing, 1.6 MHz shift.

To add to the bandplan in the USAGE section :

432.600 – 432.9875 Repeater Input Region 1, 12.5 kHz spacing, 2.0 MHz shift.  
 433.000 – 433.3875 Repeater Input Region 1, 12.5 kHz spacing, 1.6 MHz shift (p).  
 434.600 – 434.9875 Repeater Output Region 1, 12.5 kHz spacing, 1.6 or 2.0 MHz shift (p)

To add to the bandplan in the USAGE section :

433.000 – 433.375 Repeater Output only in the UK, 25 kHz spacing, 1.6 MHz shift.  
 434.600 – 434.975 Repeater Input only in the UK, 25 kHz spacing, 1.6 MHz shift.

15 in favour, 2 Abstention

5.2 2400 MHz (C5\_12), including Amendment by EDR:

**Background:**

- 2400 – 2402 MHz is also recommended for contesting, due to national restrictions.
- The new QO-100 (geostationary) satellite could interfere with this contesting section.

**Proposal:**

- Change from 2400 MHz to 2401-2402 MHz as contesting section in the VHF-Handbook

**Recommendation:**

**VIE19\_C5\_Rec\_04: To implement the Narrowband centre of activity at 2400,500 MHz and the coordinated NB beacons between 2400,800 MHz – 2401,000 MHz.**

16 in favour, 1 Abstention (DARC).

5.3 40 MHz / 60 MHz (C5\_02):

**Background:**

- IRTS (Ireland) has now access to those two bands.
- There are also beacons in other countries

**Proposal:**

- Incorporate the proposed 40 MHz and 60 MHz Bandplan in the VHF-Handbook

**Recommendation:**



**VIE19\_C5\_Rec\_05: To add the 40 MHz and the 60 MHz Bandplan in the VHF-Handbook in a separate dedicated section.**

17 in favour, 1 Abstention (RSGB)

5.4 LORA APRS (C5\_15):

**Background:**

- LORA modules are available for 70 cm and already in use in the radio-amateur community.
- There is a need for two dedicated frequencies.

**Proposal:**

- 433.775 LoRa-1 (from Node to Gateway BW 125kHz)
- 433.900 LoRa-2 (from Gateway to Node, for messages, BW 125kHz)

**Recommendation:**

**VIE19\_C5\_Rec\_06: To modify the 70 cm Bandplan by deleting the 20 kHz Bandwidth entry and change footnote (m) by deleting “in those countries that have the full 10 MHz allocation” and adding “by staying in the segment”.**

**Furthermore, to add a footnote for the LORA usage as proposed.**

unanimously in favour.

5.5 Wideband usage on 6 m Band (C5\_18):

**Background:**

- Germany has a limited access on the 6m band.
- WRC-19 could improve the situation and enable a more intensive experimental use of this Band.

**Proposal:**

- DARC is proposing to discuss the possibility of broadband applications in this band.

**Recommendation:**

**VIE19\_C5\_Rec\_07: To start immediately after WRC-19 a 6 m Working Group to prepare a new Bandplan including Wideband applications and the technical development.**

unanimously in favour.

5.6 Bandplan updates (C5\_27):

**Background:**

- Small updates needed
- No details about mode designations
- Simplify current Bandplans

**Proposal:**

- Remove specific assignments for PSK31 on all bands
- Remove “EME CW only” segment on 70cm
- Remove telegraphy exclusive in the 2,3 GHz segment
- Update all EU CEPT footnotes.

**Recommendation:**

**VIE19\_C5\_Rec\_08: As proposed in the document:**

1. ) PSK31: Remove specific assignments at 432.088, 1296.138, 2320.138 MHz – enabling all MGM to have equal priority (noting that PSK31 at 144.138 was removed at Landshut)

2. ) 70cms/EME: Remove the EME CW-only segment in 70cm to create a merged block for all activity at 432.000-432.100 MHz - simplifying the band plan and enabling EME to also use MGM
3. ) 2.3GHz: Remove Telegraphy 'Exclusive' at 2320.000-2320.150 and enable MGM as well (or adopt the all-modes approach in the broader RSGB Microwave Paper)
4. ) EU Frequency Footnotes: Update all information/references to the latest CEPT ECA definitions/changes for 70MHz, 3.4, 5, 10, 76 GHz.  
17 in favour, 1 Abstention (CRC).

#### 5.7 Maximum Bandwidth above 1 GHz (C5\_28):

##### **Background:**

- Handbook is used by some regulators
- Keep it flexible for experiments

##### **Proposal:**

- Remove the "Maximum Bandwidth" column from the band plans in sections 1.6 to 1.16 of the VHF Managers Handbook.
- Add relevant notes into the "Usage" column if there is a need to be specific about operational bandwidth, and/or consider footnotes for beacon / weak signal segment priority.

##### **Recommendation:**

**VIE19\_C5\_Rec\_09: To remove the "Maximum Bandwidth" column from the band plans in sections 1.6 to 1.16 of the VHF Managers Handbook.**

**Furthermore, add relevant notes into the "Usage" column, if there is a need to be specific about operational bandwidth and/or consider footnotes for beacon / weak signal segment priority.**

8 in favour, 6 against, 4 Abstention.

**The recommendation to delete the maximum Bandwidth was rejected.**

#### 5.8 9 cm Bandplan (C5\_36):

##### **Background:**

- Feedback from the German DX community

##### **Proposal:**

- Change "Centre of activity and EME" to "Centre of activity (EME)" to better reflect footnote (b):
  - EME Centre of Activity has migrated from 3456 to 3400.1 MHz to promote harmonised usage and activity
  - Change "Maximum Bandwidth" from "500 Hz" to "2700 Hz".
  - Add "SSB" to "Mode" and "3400.200 MHz Centre of activity (SSB)" to "Usage".

##### **Recommendation:**

**VIE19\_C5\_Rec\_10: To change "SSB, Telegraphy, MGM" to "Allmode" and delete "2700 Hz" in the Range 3.401 to 3.402 MHz.**

17 in favour, 1 Abstention.

## 6. Contesting

### 6.1. Contest Rules (C5\_06):

#### Background:

- Some rules are not easy to evaluate; however, they are necessary (HAM spirit)
- There are a lot of IT tools to make contesting easier
- Editing typo's in the log before submitting the log is common practice.

#### Proposal:

- Carry the proposal to the CWG to prepare for the next General Conference

#### Recommendation:

**VIE19\_C5\_Rec\_11: To carry VIE19-C5-006 to the Contest WG, with the guidance of C5 (a.1 in favour, a.2 rejected).**

Unanimously in favour

### 6.2 FT8 usage during Contest (C5\_19):

#### Background:

- Growing popularity of FT8 on 6m (and also on 2m)
- CEPT meeting: most activity is focused on 50,313 (FT8)
- Contest days show more activity then other days

#### Proposal:

- FT8 should not be used during contests

#### Recommendation:

**VIE19\_C5\_Rec\_12: To carry the handling of FT8 in contests to CWG.**

unanimously in favour

### 6.3 ATV - Contest (C5\_20):

#### Background:

- Current logging during ATV contest does not contain ATV mode
- It would be useful to analyse the usage of the ATV mode
- Contest days show more activity then other days

#### Proposal:

- In the log, add a new column to indicate the "RECEIVED TV MODE" with 5 possibilities: "AM", "FM", "DVB-S(SR)", "DVB-T (BW)" or "Other". In which SR (Symbol Rate) is in kS/s and BW (Bandwidth) in MHz.

#### Recommendation:

**VIE19\_C5\_Rec\_13: To add in the log a new column to indicate the "RECEIVED TV MODE" with five options: "AM", "FM", "DVB-S(SR)", "DVB-T (BW)" or "Other". In which SR (Symbol Rate) is in kS/s and BW (Bandwidth) in MHz, but not for scoring purposes.**

9 in favour, 1 against, 7 abstentions

**This proposal is rejected**

### 6.4 QRP segments during Contest (C5\_21):

#### Background:

- During contest there are a lot of High Power stations on air.
- It is not possible for QRP stations to make contacts, especially for SOTA and WWFF activities

- During these days there is no alternative for QRP stations.

**Proposal:**

- No contest stations in the reserved QRP frequencies: 144,060; 144,285; 50,060 and 50,285 (+/- 5 kHz)

**Recommendation:**

**VIE19\_C5\_Rec\_14: To reserve QRP frequencies 144,060 MHz, 144,285 MHz 50,060 MHz and 50,285 MHz (+/- 5KHz)**

1 in favour, 12 against, 3 abstentions

**This proposal is rejected**

6.5 CWG chairman

S53WW stepped back from the chairmanship. IV3KKW was appointed unanimously as new chairman for the CWG

6.6. Contest Robot issues (C5\_07/C5\_08/C5\_35)

**Background:**

- The contest robot is edited without long term vision (change rules, etc.)
- There are no considerations about financing changes
- There is no project plan and long-term vision
- Many MS needs logs for crosschecking their own contests
- The log collection in the IARU-R1 contest server is currently very good
- Initially the contest robot was made for contest evaluation of three IARU-R1 contests
- Before the CWG activities, there was no funding for the contest robot by IARU Region 1
- There is a problem with change management
- Different MS have their own contest software developed
- To comply with GDPR is still of importance

**Discussion:**

- Do IARU R1 needs to organise contests? If yes, we need to finance this! But how can this be done?
- A dedicated project manager/team is needed
- MS are encouraged to promote the central collection in the IARU-R1 contest server
- Standard EDI files shall be accepted. National rules are in the responsibility of the MS (if they defer from IARU-R1 rules)
- Neglecting GDPR is no option
- To make a framework solving the problem around the contest robot
- Clarification about the ownership of the Source-Code of the Contest-Robot:  
OE1MCU explained, that IARU is the owner of the Source-Code. However, OE1MCU pointed out the difficulty in handling foreign Souce-Code.

**Proposal:**

- DARC and ÖVSV will take over the responsibility about the Contest-Robot in line with the CWG. When the Contest-Robot

will have accomplished an appropriate maturity, it will be available to all Member Societies.

- Switching-off the SP7NJX-Server, to avoid confusion for the users and delete the reference in the VHF-Handbook in chapter 5.4.1.

G3BJ thanked DARC and ÖVSV for offering responsibility for the Contest-Robot. G3BJ pointed out the importance of a sound documentation of the software. He emphasized also the importance that despite all changes the Contest-Robot still has to comply with GDPR.

#### **Recommendations:**

**VIE19\_C5\_Rec\_15: DL3MBG on behalf of DARC and OE1MCU on behalf of ÖVSV to take over the responsibility and financing for the Contest-Robot in line with the VHF-Handbook and the CWG under the guidance of C5. Furthermore, to share the Contest-Robot with all Member Societies when the Contest-Robot has accomplished an appropriate maturity.**

16 in favour, 2 abstentions (SRAL, IRTS)

**VIE19\_C5\_Rec\_16: To delete all references to the SP7NJX-Server in the VHF-Handbook. Furthermore, Task the C5 chairman to thank and ask the SP7NJX-Server Administrator to shut down the Log-Collection-Service for the IARU-Contests.**

in favour, 2 abstentions (SRAL, IRTS)

## **7. Operational Matters**

### 7.1. Open bridge interface DV (C5\_16)

#### **Background:**

- During last years a lot of DV technology is been used (D-STAR, DMR, Fusion, Tetra, etc.).
- Interconnecting many repeaters into a worldwide network
- Existence of different communication protocols and “bridges”

#### **Proposal:**

- To define some protocols in the VHF Handbook urgently
- We therefore propose to favour the MMDVM protocol as the basis for the networking of digital voice systems and to prefer this protocol as the basis for the development of new DV networks

#### **Recommendation:**

**VIE19\_C5\_Rec\_17: ÖVSV to start activities for gaining interoperability in bridging technology for DV.**

16 in favour, 1 abstention

### 7.2. Channel designation system (C5\_17)

#### **Background:**

- The channel designation system (Tel Aviv 1996) is not used in fact
- DARC removed this from its website
- Almost no one seems using this

#### **Proposal:**

- Discussion to remove all channel designation from the VHF Handbook.

**Result of the Discussion:**

- C5 concluded no action is needed.

7.3. A Swiss Army knife of modulation techniques (C5\_30)

The C5 Committee agreed, that this proposal was already covered with the Recommendation VIE19\_C5\_Rec\_16 and no further action is needed.

7.4. Digital Principles (C5\_24)

**Background:**

- Deployment of new digital techniques shall be supported
- Bandplaning needs to be considered in a more strategic way

**Proposal:**

- Mode neutrality (MGM, DV, etc), avoiding specific frequencies
- IARU Bandplan shall be as neutral as possible. National Bandplans can be more specific
- Bandwidth restrictions should be reviewed
- Digital developers to be encouraged to comply with IARU Bandplans
- Valid QSO principle will remain

**Recommendation:**

**VIE19\_C5\_Rec\_18: To agree with the five principles proposed above and insert them in the VHF-Handbook in an appropriate way.**

16 in favour, 2 abstention

7.5. Amateur Satellites (C5\_29)

**Background:**

- There are a lot of new (small) satellite launched
- This generate 2 problems:
  - No IARU frequency coordination
  - No publication of the used protocol

**Proposal:**

- To install a working group to examine the frequency allocation process and technical documentation for satellites
- This working group will also coordinate between the Regions
- Making contacts and coordination with universities

**Discussion:**

- It is needed to pay attention not sending messages which can be misunderstood.

**VIE19\_C5\_Rec\_19: To handle the issue by the Satellite Coordinator.**

Unanimously in favour

7.6. Costa Loop Prize (C5\_23)

**Background:**

- The career of John P Costas.
- An example of innovative achievements

**Proposal:**

- To ask the AC (IARU) to install a Costa Loop prize

- For innovative achievements by radio amateurs in developing modulation and spectrum usage techniques
- First awarding ceremony: WRC-19

**Discussion:**

- C5 concluded not to be in charge for this paper.
- It is recommended to IRA to bring it to the C3 for the next General Conference.

7.7. Microwave Bands (C5\_25)

**Background:**

- Our Bands between 1 GHz and 10 GHz are under serious pressure.

**Proposal:**

- Member Societies to appoint a  $\mu$ Wave manager
- Achieving good relations with regulator
- Successful sharing of bands with commercial users
- Taking action to improve activity on those bands

**Recommendation:**

**VIE19\_C5\_Rec\_20: To add the proposed recommendations of document C5\_25 as permanent guidance in the C5 Newsletter.**

Unanimously in favour

**VIE19\_C5\_Rec\_21: To add the VHF-, Microwave- and Contest-Managers on the new Website.**

Unanimously in favour

**8. WRC-19 (Joint Session with C4 and C7)**

EI3IO presented the current status of the WRC-19 preparations with regards mainly to Agenda Items 1.1 (50 – 54 MHz allocation in Region 1) and 1.13 (IMT needs an allocation in 24.25 – 86 GHz). EI3IO gives an outlook for possible Agenda Items of WRC-23 especially the possible threats for the 248 GHz, the 5,7 GHz and the 1260 – 1300 MHz Bands.

OK1RI encouraged the Member Societies to support the Czech's regulator measurement campaign on the 13<sup>th</sup> June 2019 by huge activity on the 50 MHz – Band.

**9. Youth Activities (C5\_34)**

OE3MZC presents the current status of the YOTA activities like YCP (Young Contesters Program) and YOTA Summer camp (regional and IARU-wide). Further information can be found at: <https://www.ham-yota.com/>

OE3MZC encouraged the Member Societies to support these activities.

ON4AVJ recommended to add VHF-Contests and respectively relevant VHF-Contest-Stations to the YCP.

IV3KKW encouraged the Member Societies to implement dedicated categories for Youngsters in their national contest rules.

## **10. AOB**

10.1 Presentation by G4SWX on behalf of RSGB about “Innovation & New VHF Amateur Spectrum”

10.2 Presentation by EI3IO on behalf of IRTS about “How to work with the Regulator”

10.3 Presentation by OE1KBC on behalf of ÖVSV about “HAMNET and Digital developments”

10.4 Presentation by ON4AVJ about “Promoting Amateur-Radio in other Communities”

## **11. Closing the meeting**

ON4AVJ thanked the participants for their engaged contributions and closed the meeting at 11:23AM.



## List of documents

- **VIE19\_C5\_01:** Agenda and list of documents including Annex-Chairmans-Instructions
- **VIE19\_C5\_02:** IRTS-40-and-60-MHz-bandplans
- **VIE19\_C5\_03Rev1:** ON4AVJ-VHF-Handbook
- **VIE19\_C5\_04:** ON4AVJ-Chairman's-Report
- **VIE19\_C5\_05:** ON4AVJ-SitRep-after-GC-and-ToDo-list
- **VIE19\_C5\_06:** MRASZ-Contest-Rules
- **VIE19\_C5\_07:** ON4AVJ-financing-contest-robot-
- **VIE19\_C5\_08:** ON4AVJ-Central-log-collection
- **VIE19\_C5\_09:** ON4AVJ-ToR-Contest-WG
- **VIE19\_C5\_10:** UBA-Bandplan-70-cm
- **VIE19\_C5\_11:** G3VZV-Satellite-Coordination-Report
- **VIE19\_C5\_12:** ÖVSV-2400-MHz-satellite-bandplanning
- **VIE19\_C5\_13:** ÖVSV-add-DV-to-handbook
- **VIE19\_C5\_14:** ÖVSV-Handbook-V8.12-corrections
- **VIE19\_C5\_15:** ÖVSV-LORA-APRS-433-MHz
- **VIE19\_C5\_16:** ÖVSV-open-bridge-interface-DV
- **VIE19\_C5\_17:** DARC-Handbook-Channel-designation-system
- **VIE19\_C5\_18:** DARC-WB-usage-in-6m-Band
- **VIE19\_C5\_19:** ARI-FT8-in-contests
- **VIE19\_C5\_20:** USKA-ATV-Contest
- **VIE19\_C5\_21:** USKA-QRP-contest-segments
- **VIE19\_C5\_22:** OZ1FF-DX-Record-Coordination-Report
- **VIE19\_C5\_23:** IRA-Costas-Loop-Prize
- **VIE19\_C5\_24:** RSGB-Digital-Principles
- **VIE19\_C5\_25:** RSGB-MW-Bands
- **VIE19\_C5\_26:** RSGB-VHF-Handbooks
- **VIE19\_C5\_27:** RSGB-Bandplan-Updates
- **VIE19\_C5\_28:** RSGB-Max-BW-above-1-GHz
- **VIE19\_C5\_29:** URE-Amateur-Satellites
- **VIE19\_C5\_30:** IRA-Modulation-Techniques
- **VIE19\_C5\_31:** S53WW-CWG-report
- **VIE19\_C5\_32:** DH4FAJ-Beacon-Coordination-Report
- **VIE19\_C5\_33:** ON4AVJ-response-to-doc-VIE19-C5-026
- **VIE19\_C5\_34:** ÖVSV-Youth-Activities---growth-and-future
- **VIE19\_C5\_35:** G3BJ-Contest-Robot
- **VIE19\_C5\_36:** DARC-9-cm-bandplan
- **VIE19\_C5\_37:** S53WW-Contest-WG-Advice
- **VIE19-C5-INFO1:** RSGB-Innovation-BandsActivities