

432 AND ABOVE EME NEWS MARCH 2019 VOL 48 #3

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CONDITIONS: On 432 for the DUBUS CW Contest weekend condition were terrific, and produced the highest turn out in years. The top score is probably from DL7APV, but Bernd did not make clear his actual numbers and only that he had > 40 QSOs. The top report score is from G3LTF with 28x28. **Coming up on 16/17 March is the 13 cm DUBUS CW EME Contest.** What a difference a month makes. We have gone from very little dxpedition news to a plethora! The EA9LZ (Ceuta) on 432 and TO2MB (Martiniqua) on 432 and 1296 both should be running when you receive this NL – see reports in this newsletter (NL). There are also reports on A21EME (Botswana) on 70 thru 3 cm in Oct; SV9 (Crete) on 23 thru 3 cm, 10 - 17 May; VE2TWO (Zone 2) on 23 thru 6 cm at end of June/July; and VP2EMB (Anguilla) on 70 and 23 cm 12 – 20 April. The 70 cm CW Activity Time Period (ATP) is 16 March 1230-1430 and 2200-2400.

DL6WU a SK: Gunter was considered by many the father of the modern super high gain long yagi. I think Jan (DL9KR) say it well -- An extraordinary loss for the community: Günter passed away on 4 Jan. Among many other radio activities his decade-long work on long yagi design and the respective boom corrections and spacing formulae were and are the basics in this field. We owe him a lot. He was a good friend and partner for many of us. My deep sympathies and condolences to his family. RIP Günter!

432 WAC CLUB: I had envisioned a microwave band WAC club. While we discussed how to create such a club and what bands to include, Paul (K4MSG) took up the cause of creating a list for 432. He found the task was a lot more complicated than any of us had thought. Good records do not exist. The ARRL is not helpful. Some of the 432 WAC recipients are SKs. Do you list ranking on when the last QSO was made or when a certificate was awarded? How do you decide who and what to include? What about CW and digital QSOs. A lot of these issues are still be resolved; however, at the end of this NL is an attempt to come up with a list. Paul deserves all our thanks for the great amount of work he has put in to this project.

A21EME: Lins (PA3CMC) sends early news of operation from Botswana in KG25wk – We plan to operate EME on all region 1 bands from 6 m thru 3 cm and including 9 cm. 70 cm operation will be from 20-25 Oct, and on 1296 to 3 cm from 20-29 Oct. We will be QRV on both JT and CW. The team will be a joint effort of myself, ZS6JON, PA2CHR, ZS6NK, ZS6AVH, ZS4TX, HB9COG and HB9CRQ. More info to follow next month.

BV3CE: Tom tom33638998@yahoo.com.tw has relocated his 23 cm 4 x long yagi array from his balcony to his roof – My new array location (horz pol) gives me 360 degs of azimuth access! I can now be QRV with NA and SA and am looking for skeds to complete WAC on 1296.



DL6 WU in shack and 432 array



BV3CE 4 yagi 23 cm array

DK3WG: Jurg dk3wg@web.de reports on his recent activity – I worked on 70 cm using JT65B GM4FIZ, RA2FGG and N0AKC; and on 23 cm with CW IW3HVB, and using JT65C WX4F.

DL0SHF: Chris (DF9CY) df9cy@web.de writes about activity from DL0SHF during Feb -- I came on 23 cm for several short periods. I first worked on 15 Feb AA4MD and W1PV using CW with FB signals. Then I tried WSJT. After an hour or so, I decoded my first signals. As I am working remote, I had to calculate the time lag of the internet connection. I was happy that it is less than 80 ms most of the time. Fortunately, this delay was quite constant. As DL0SHF runs a Flex6500, I can "see" about 50 kHz with good resolution. I only have to move the passband into the middle over a JT65 signal and it is now decoded. I QSO'd on 16 Feb using CW IK3COJ, SP4ELF and F6KRK - all with good reports. For the remainder of the evening, I tried JT65C again. The result was that the computer crashed, and I had to get Per (DK7LJ) to reset it. On 17 Feb, I first worked LA3EQ with good signals on CW, and then tried again with WSJT. This time nothing crashed and after a while I was able to transmit as well. The first lucky guy I worked in JT65C was SM6CKU, where my power was certainly less than 2 W. Ben's signal was tremendous and he gave me (24DB). I then QSO'd in a row RN6MA, G0LBK (low power and a single yagi), DF2VJ, DL8FBD and ON4QQ. Switching between CW and JT takes about 15 minutes because I have to reconfigure WSJT, Windows Audio settings and the Flex radio each time I change. I am not sure I can be on in March for the DUBUS 1296 CW Contest. If I can be QRV, I plan to be on during my NA window as well as EU.

DL7APV: Bernd Wilde dl7apv@gmx.de was active in Feb for the DUBUS CW EME Contest -- I was not home on Saturday, so my good friend DL7ON operated my station. He made >20 CW QSOs. On Sunday I manage to work also > 20 stations. [Total >40?] It was nice to hear all that CW sounds; sometimes I could see more than 7 Stations at the same time on CW. A CW sked with an Italian station using 11el yagi and 100 W from a balcony was not good. I heard him but not visa-versa. He will add a better preamp soon and is working on 3 more yagis. In Feb on 432, initials were made using JT65B with UA6AQN 4x18 yagis and 70 W, and with IC8SQS 26 el yagi and 150 W. I also finalized arrangements to officially retire by the start of 2020; hurray more time for radios!

DL8DAU: Matt matthias1958@gmx.de relates his experiences recently QSOing JA4UMN on 70 cm on 12 March -- I will first give some information on myself and my station -- I am 61 years old, and since 1 year on part-time retirement (a very good decision). I have been a ham since 1977. My QTH is in (JO40me), a small village about 30 km east of Frankfurt/Main. I have a good Moon window from south to west, but some blockage from hills in other directions. On 70 cm, I use 4 x 6 wl yagis (~ 20 dBd), BEKO HLV1100 PA (1100 W PEP & 900 W digi modes), HA8ET LNA (inside ~ 12 m feedline) and Yaesu FT847 with a build in crystal heater. Manmade noise from cable TV is a major problem here. Fortunately, it is not as bad on 432 as on 144. Presently, on 432 I am at mixed initial 213* and DXCC 46. On 12 March, after some days of high wind, I could use my station again. I found JA4UMN busy trying to work BD9BU without success. I looked for his CQ and found his trace in the waterfall. Once I decoded him,

we were able to complete very quickly (26DB/21DB). Fumi in (PM64vu) has 4 x 25 el yagis and 500 W.



DL8DAU's 432 4 x 6 wl yagi array

EF9LZ: Bernd (DF2ZC) BerndDF2ZC@gmail.com and DH7FB, the X-Team, will be QRV on 70 cm (and 2 m) from Ceuta (IM75hv) on 15-19 March -- Thanks to OK1DFC we have an excellent QTH. Our rig on 432 is 2x17 el DK7ZB yagis (polarity rotatable), SSPA, LNA and FT857. Updated info can be found at <https://xteamdxps.blogspot.com/>.

G0JLO: Keith keith@analog.co.uk reports on his 70 cm DUBUS CW EME Contest weekend -- I had a great time on 432 CW in the DUBUS contest. I had no intention of putting in an entry [Why not? Every entry keeps the contest going], but the CW activity was so good and so much more than any of the multi-mode contests I've experienced. By the end, it seemed a shame not to send in my report. From midnight on Friday night I worked OZ6OL for initial #24 (549/549), OK1CA (569/569), UA3PTW (579/579), OH2DG (559/559), WA6PY (549/O), VE6TA #25 (449/449), K2UYH (559/559), KL6M (569/569), I2FHW (569/O), went to bed at 0230 and started again at 2200 with G3LTF (559/559), OE5JFL (549/549), UT5DL #26 (339/559), and from 1615 on Sunday evening OZ4MM #27 (559/559), DL7APV (579/579), DF3RU (449/559) and SM2CEW (569/569). I end with a total of 16x16). There were several heard that I didn't get around to working and apologies to them: DL9KR, NC1I, PA2V, DL6SH, SP6JLW, G4RGK, SP7DCS, VK5MC and DK1WG. If I'd know I was going to enter, I'd have made more effort. I am very much looking forward to the next 432 CW contest.

G3LTF: Peter's g3lft@btinternet.com EME report for Feb follows -- We had the highest level of activity in any 432 CW contest for many years with excellent conditions, especially on the Saturday pass with some very loud signals. I think there must have been ~ 36 stations active over the weekend. On 16 Feb I worked UT5DL, OZ4MM, OK1CA, KL6M, OH2DG, VK5MC, DL7ON, UA3PTW,

SP7DCS, OE5JFL, G4RGK, I2FHW, SP6JLW, DL9KR, DL6SH, DK3WG, NC1I, VE6TA, G0JLO, PA2V, OZ6OL, and K2UYH, and on 17 Feb WA6PY, SM2CEW, OE3JPC, DF3RU, DL7APV (same as DL7ON), DL8UCC and SM7THS for initial #484. My total was 28 x 28. Heard were OK1YK and PA0BAT and an F5. Someone called me at ~1730 Sunday, but just too weak and not enough spacing between characters - please contact me, if you would like a sked. I was puzzled by the absence of JAs; I never heard anyone working one. My thanks to all for the great QSOs. On 18 Feb, after a day spent chasing an intermittent fault in my 3400 set up, I managed to work G4BAO for initial #71 on CW, and the next day OZ5G #72 (559) with an excellent signal.

G4BAO: John john@g4bao.com was active on 9 cm in Feb with an improved signal -- I now have 60 W at the feed on 9 cm on my 1.9 m dish - thanks to a second Toshiba from a benefactor in the US. I now see consistent JT mode echoes and am looking for skeds (CW or JT) via email or on HB9Q. I am also QRV on the new QO100 GEO satellite, if you want to chat about EME. I don't yet have the satellite system in the same shack as EME, so no talk back!

G4RGK: Dave zen70432@zen.co.uk reports for the NL -- I was active in the 70 cm DUBUS Contest, but wasn't able to be QRV for long due to other commitments. Conditions and activity seemed good. I QSO'd on 16 Feb OZ4MM (559/449), DL7ON (559/549), I2FHW (449/449), OH2DG (559/559), G3LTF (559/559), DK3WG (559/559), OE5JFL (569/559), UA3PTW (579/579), DL9KR (589/589), DL6SH (559/559), NC1I (559/569), OZ6OL (559/559) and VE6TA (O/O), and on 17 Feb WA6PY (559/559), SP7DCS (559/559) and KL6M (579/569). I heard a number of stations that I did not have the time to chase including IZ2DJP, which would have been a new one. Over all my total was 16x16. My station is 8 x 27 el DJ9BV open wire fed yagis, 2 x 3CX800A5 PA at ~ 700 W and a MGF1302 cavity preamp.

KA1GT: Bob ka1gt@hotmail.com writes that he was not very active on the air in Feb -- I did make a few random contacts on 1296. Currently at around initial #120. I just sent off a batch of QSL cards to everyone I've received a card from and had not yet replied to. If you sent me a card and don't get one back within the next week of two, let me know. Current activity is (slowly) working towards 10 GHz EME (RX only), using a modified LNB. I updated my Doppler Shift calculator after fixing a few bugs. The current version is at http://bobatkings.com/radio/doppler_calc.html. I also added some "global view" maps of EME station locations (showing the effects of the Moon's declination on coverage) at end of my EME station map page, http://bobatkings.com/radio/ka1gt_eme_map.html.

KL6M: Mike melum@alaska.net had a great time in the DUBUS 70 cm Contest -- I was only QRV the first day. Unfortunately I could not operate the second day due to high winds. I worked on 16 Feb at 0036 UA3PTW (589/589), 0043 I2FHW (579/559), 0052 WA6PY (569/569), 0058 OZ6OL (569/569), 0107 OK1CA

(579/569), 0121 OH2DG (579/579), 0126 K2UYH (569/569), 0146 G0JLO (569/569), 0151 VE6TA (579/579), 0728 VK5MC (559/559), 1429 OZ4MM (589/569), 1442 DL6SH (579/569), 1448 DL7ON (579/579), 1454 G3LTF (569/569), 1459 SP7DCS (559/579), 1504 OE5JFL (579/579), 1521 SP6JLW (569/569), 1543 SM7THS (559/559), 1552 UT5DL (559/569) and 1611 DL9KR (599/579), and on 17 Feb at 0104 G4RGK (569/579) and 0304 I1NDP (569/569). I ended up with a score of 22x22 and some amazing signal reports. Conditions were similar to the ARRL Contest 70 cm conditions; I observed very deep QSB, but also very strong peaks. I essentially had no observable Faraday rotation. I plan to be QRV for the 13 cm DUBUS Contest. I am working hard to solve my serious RFI problems on 13 cm. I did a mini-web page on my efforts here -- see <http://kl6m.com/13CM/FA/13cmFilter.html>. I am still having occasional aftershocks from the earthquake, but no damage here.

LU8ENU: Juan lu8enu@gmail.com writes he has his 1296 feed again installed on his dish. It was very nice to find several new stations active on 23 cm. Since returning to the band, I have communicated with XE1XA, IW3HVB for a mixed initial (*), KA1GT (*), K5DN (*), HB9Q, PA0PLY (*), PA2DW, F1RJ, NC1I, W1XM (*), PE1CHQ, UA9FA (*), G4DML (*), AA4MD (*), RN6MA (*), W2HRO, K5DOG, WX4F (*), SM4GGC (*), SM6CKU (*), W2HRO, K7CA (*) and DJ2DY (*). All these stations were worked with JT65C and received > (20dB). Even stations using small dishes were heard (25dB) or better. I see that many of the new 1296 stations are using high power. For those who still need a QSO on 23 cm band, I will be active for a few months before installing my 3 cm feed again.



LU8ENU's dish with 1296 feed

NC1I: Frank frank@NC1I.COM sends his Feb EME report -- Fortunately, all of my antennas survived the big winter storm of 19/20 Jan. However, I discovered that my 432 RX performance is down about 4 dB. I had been suspicious of that last fall, but did not take the time to really check it out. It seemed most everyone reported great conditions during the ARRL contest, and I just didn't think conditions were

anything special, now I know why. I have not yet determined, if the problem is only on receive or if it's also on the TX side (I suspect it is). SWR has gone up only slightly, from a normal of 1.06:1 to 1.10:1. Everything in the shack appears fine, so I am assuming the problem is up the tower somewhere. It will probably be May before we do any outside troubleshooting. We also had a very impressive 36-hour wind storm on 25/25 Feb with frequent gusts of 110 kmh or more. Miraculously all of my antennas again survived. QSO's added since my last report were on 1296 starting on 18 Jan DL1RME for mixed initial #308*, RA2FGG, and WA9FWD, on 10 Feb SM6CKU, G4FQI, IW3HVB #309*, DJ2DY, 4X1AJ, WX4F initial #310 and UA1CCU, and on 14 Feb W1XM #311* and LU8ENU; and on 432 starting on 15 Feb DL7APV, DK1KW, GM4FIZ, DL5FN, PA2V, SM7THS, GW3XYW, G6HKS, OK2AQ, 9K2YM for an mixed initial (#*) and new DXCC, and UA6AQN (#*), on 16 Feb in the DUBUS CW Contest UA3PTW, OE5JFL, I2FHW, SP7DCS, DL8UCC, G4RGK, G3LTF and N0AKC, and on 17 Feb F8DO for an all CW total of 8x8. All other QSOs were on JT. As of the end of Feb, I am up to date with all paper QSL's and LOTW (thanks W1QA). It is nice to see more EME operators starting to use LOTW! I'm not sure how active I will be in March, but I will try to spend some time on both 432 and 1296. I plan on attending the VHF Super Conference being held in Sterling, VA (Washington DC area) at the end of April and hope to see other EME operators there.

OK1CA: Franta strihavka@upcmil.cz was QRV in DUBUS Contest on 70 cm in Feb -- I worked in the first short part of Saturday OH2DG, VE6TA, I2FHW, G0JLO, UA3PTW, K2UYH, KL6M and WA6PY, on Saturday afternoon only SP7DCS, SP6JLW, DL6SH, OZ4MM, VK5MC and G3LTF - I could only be QRV 2 hours, and on Sunday OE5JFL, DL7APV, SM2CEW, DF3RU and OE3JPC. The activity and conditions on Sunday seemed not as good as on Saturday, but I still ended with a total of 19 x 19.

OK1KIR: Vlada's and Tonna's vlada.masek@volny.cz group report on their Feb EME -- On 23 cm, we ran long distance trials on 23 cm with ZL2MQ (150W to single 45 el loop yagi to establish a new OK distance record, but failed due to terrible interference on our side when beaming towards Prague at low elevations of only a few degs. Dave decoded us all the time. Later CP tests with a septum feed showed suppressed QRM, but the 3 dB penalty with CP vs LP provided just faint traces of Dave's signal with no decodes. [Did you look at other linear pols, V or 45 degs]? A solution for LP was found by modifying the loop linear feed to decrease dish illumination ($f/D=0.31$) and in separating both stages of our high gain G4DDK VLNA and inserting a sharp 23 cm filter in-between. These modifications reduced significantly the horizon QRM and we went on to success on 16 Feb at 1302 ZL2MQ (21DB/12DB) for digital initial (#325) and a new OK distance record of 18,220 km. Quite interesting was a disappointing result of a subsequent trial using QRA64A (on our side just a few syncs and no decodes at all). We then then tried the QRA64B mode, which did not yield even sync. Later on, we again decoded Dave's JT65C CQ

at (24DB ~ 25DB) and a last decode at (30DB) when Dave's elevation had decreased to only 5° (HPBW of his loop yagi ≈16 degs!) It seems that JT65C was evidently better than QRA64, but we must note that Dave's signal suffered from poor stability, which probably impacted QRA64A(B) much more than JT65C (with AFC). On the both sides WSJTX was used. Further on 16 Feb we worked at 1437GM6VXB (25DB/24DB) a {#326}.

OZ4MM: Stig gsvestergaard@gmail.com brings us up to date on his activity -- Back in Jan during the 1296 SSB Funtest, I had very limited time to operating, but still QSO'd 13 stations and had lots of fun chatting off the Moon with EME friends. In Feb for 432 DUBUS CW Contest, I had less than 2 hours operating time at moonrise on both Saturday and Sunday. Signals were great and activity fine. I only worked 18 stations, but feel it was not so bad considering my available time. As mentioned in the last NL, OZ (Denmark) has lost use of 2304 and 2320. These frequencies are being sold for commercial use. Now OZ stations are only allowed to operate on 2400 and up. At 2402 WIFI networks destroy receiving. In EU, the new Es-haul satellite is in the 2400 band too. We are concern that ham transmissions at 2400 may block the receiver in this satellite. OZ5G and I are quite frustrated, and need to agree on a frequency for everyone to listen for OZ stations on 13 cm. We are sure many of the other EU countries will have the same problem in the future. We need to hurry up, and make a decision on a common TX frequency allocation for 2400. Any comments are very welcome. We both are rebuilding our TX for 2400 with less power than normal. Receiving on 2304 and 2320 is no problem.

PA2V: Peter peter@pa2v.com writes that his time has been limited, but that the second week of Feb was exciting -- I worked more small stations confirming that antennas are performing very well. Most exciting was a marginal contact with 9K2YM. He was running only 50 W to 4x 27 el yagis (the same as use)! During the past 2 months, I have worked using JT65B IZ2DJP (28DB/22DB), G3LGR (13DB/13DB), JA6AHB (13DB/13DB), DK4RC (19DB/14DB), PA3DOL (24DB/21DB), PY2BS (21DB/15DB), UR3EE (21DB/O), 4Z5CP (20DB/23DB), G3LGR (28DB/2DB), PE1ITR (23DB/18DB), JA4UMN (20DB/13DB), RA9CHL (26DB/25DB) for a mixed initial #179* (33 el single yagi), DF7KB (19DB/19DB), RN6MA (28DB/23DB), UA6AQN (31DB/17DB) #180* (2 x 18 el & 70 W), NC1I (4DB/10DB), GW3XYW (23DB/23DB), G6HKS (20DB/19DB), 9K2YM (30DB/25DB) #181 and new DXCC, S51LF (20DB/O), N0AKC (20DB/14DB) #182*, F6APE (23DB/21DB), F8DO (29DB/24DB) and SM7THS (17DB/10DB). Using CW, I worked on 13 Feb before the DUBUS 70 cm contest at 1922 OE5JFL (549/559), and in the contest on 16 Feb at 1453 OZ4MM (559/569), 1623 DL7ON (559/559) [same DL7APV], 1631 DL9KR (579/579), 1747 UT5DL (539/559), 1752 UA3PTW (579/579), 1752 OE5JFL (449/569), 1820 DF3RU (439/539), 2240 I2FHW (559/559), 2316 SP6JLW (559/559), 2323 G3LTF (589/579), 2330 OZ6OL (459/559), 2344 VE6TA (559/559) and 2351 OH2DG (579/579), and 17 Feb at

1755 DL7APV (579/569) [same DL7ON]. My CW total was 14x14.

SV9/HB9CRQ: Dan (HB9CRQ) dan@hb9q.ch and the Q-team are planning a microwave dxpedition to Crete – We will operate from (KM25xa) on the southeast coast of Crete. We should have a good moonrise and set requiring just a few degs of elevation. We will begin operation on 1296 on 10 and 11 May. On 12 May, we will switch to 13 cm (all sub-bands); then to 9 cm on 13/14 May, on 6 cm on 14/15 May and 3 cm 15/16 May. Operation on all bands will be moonrise to set. The 16/17 and 17/18 May Moon windows are open.

TO2MB: Peter (DL1RPL) and his team of DJ4TC and DL3RKS will be activate from Martinique on 432 and 1296 EME (and 2 m) between 17 and 26 March – Our plans are to be QRV on 432 on 17 March from 1930 to on 18 March 0700, and 23 March from 0030 to 1100; and on 1296 on 18 March from 2030 to on 19 March 0800, and 24 March from 0130 to 1200. We will also be QRV where most needed, on 26 March from 0330 to 1330. We expect to have a moonrise at a near horizon elevation. If possible, we will be QRV on 2 bands at the same time. Our equipment for 432 is 2 x 17 el yagis (H or V), 500 W SSPA and FT-857; and for 1296 Ant (TBD), 250 W SSPA and FT-818 with DB6NT TRV/GPS locked. See more info at <http://www.dl1rpl.de>.

UA3PTW: Dmitry ua3ptw@inbox.ru was QRV in Feb – I worked on 432 with JT65B initials with RA2FGG, UA0ZGX and 9K2YM for a new DXCC, and on CW VK4AFL. On 1296, I added initials using JT65C with WX4F, IW3HVB, DL1RPL, LA1K and GM6VXB. [TNX DK3WG for forwarding this report].

UR3EE: Arthur ur3ee@i.ua in Ukraine (KM78ml) is QRV on 70 cm with a single yagi – In Feb using JT65B, I logged OE5JFL, DL5FN, PA2CHR and DF7KB. [TNX DK3WG for forwarding this report].

UR5LX: Sergey ur5lx@ukr.net moved down from 3 to 6 cm in Feb – I used QRA64D to add initials with UA3TCF, JA6AHB and VE4MA/K7 to bring me to mixed initial #30*. [TNX DK3WG for forwarding this report].

VE2TWO: Peter (VA3ELE) va3ele@gmail.com will be heading north again to put Zone 2 on microwave EME – Between 28 June and 7 July, VA3TO, VE2UG and I will be operating from (FO13et) as VE2TWO. This is the same location I went to last year with 432 gear. This year we will be on 23, 13, 9 and 6 cm EME. (We will also do some 6 and 2 m meteor scatter).

VE3KRP: Fast Eddie eddie@tbaytel.net had again WX problems that made for nil operation on EME in Feb -- We are now up to 80+ cm of snow; and I had winds up to 80 km per hour during the prime Moon weekends. All the antennas seem to have survived. Hopefully warmer temperatures will let me get back in operation.

VE6BGY: Skip macaulay.skip@gmail.com has been busy with projects – My most interesting project is a new 6 cm feed assembly built around the new amplifier I built last year and an experimental 5,760 GHz copper feed. A large aluminum enclosure at the back of the assembly holds a PIC microprocessor that controls and monitors all the functions of the unit. Data such as preamp and isolation relay voltages and status, Drain voltage and current draw to the power amp and driver amp plus mode status, transverter mode, and RF output power detector signal. This data is all sent back to the shack, where its all shown on a Visual Basic program. The program shows the status of all the functions, and voltages and currents of the different stages of the amplifier. Data can also be sent back up to the feed assembly to adjust setpoints for amplifier high temperature alarm, cooling fan on and off temperatures, and amplifier low voltage alarm setpoint. There is also a VB adjustment that sends data up to a dedicated PIC circuit to control the RF output of the Kuhn transverter for controlling the power amp output. All this has been tested and proven, so next will be more RF testing and calibrating.



VE6BGY's 6 cm transmitter

VP2EMB: Chris (PA2CHR) post@pa2chr.nl and Jos (PA3FYC) are putting Anguilla Island (FK88mg) on 432 and 1296 (144 too) EME between 12-20 April – Operation will be on both JT65 and CW using on 70 cm a new X-pol 27 el (h) and 23 el (v) yagi and a 400 W SSPA, 400W; and on 23 cm a 67 el 19.9 dBd yagi and 150 W SSPA. We will listen on our own echo on 70 and 23 cm; and hope to be online at the HB9Q logger. We will publish a band timetable very soon. The latest info can be found on at www.pa2chr.nl. This trip is again a big challenge on resources, and thus we hope for some support. If you like you can make a donation via PayPal to: post@pa2chr.nl. Please don't forget to mention your call! All sponsors will receive a direct QSL.

WA6PY: Paul pchominski@maxlinear.com was QRV in the 432 DUBUS Contest -- I QSO'd G0JLO, G3LTF, G4R GK, I2FHW, K2UYH, KL6M, OE5JFL, OH2DG, OK1CA, OZ6OL, SP6JLW, SP7DCS, UA3PTW and VE6TA for a total of 14x14. Heard were DF3RU and NC1I. I am still using only a single cross yagi, and will note that I made WAC with a single yagi on 432 CW. In March I'm planning to participate in 13 cm DUBUS Contest.

K2UYH: Al alkatz@tcnj.edu – Feb was better than Jan, but still not a great month for EME. I was only **QRV for the 432 DUBUS Contest**. I was assisted for a part of the contest by NE2U and KD2QFA (a new younger ham who is interested in CW). Our operation was delayed because I discovered that my pol rotator was not working. It took me more than an hour to find the problem. When we began operation, it seemed that many of the EU operators were already closing down even though they still had plenty of moon. We worked on 16 Feb at 0101 OK1CA (579/579), 0110 OZ6OL (559/559), 0118 WA6PY (559/569), 0125 KL6M (569/569), 0129 OH2DG (569/569), 0141 G0JLO (559/559) and 0156 VE6TA (569/579). After this time, the band became very quiet. I finally worked at 0240 N0AKC (O/21DB) using JT65B outside of the contest. I caught a few hours of sleep and was back on for my JA/VK window, but found no CW activity. I worked using JT65B at 0718 JH7PAV (28DB/22DB) and 0746 BD9BU (22DB/17DB) before moonset. We were on again for the second moonpass, but found terrible noise present. At times this noise read S9+20 and covered the whole band. Despite the noise we managed to QSO at 2246 UA3PTW (569/579), 2332 I2FHW (559/559) and 2358 G3LTF (559/559). Our reports were probably somewhat optimistic. The noise really made copy near impossible. We decided to see what could be done on JT65B with the noise present. The answer was not much! We did work on 17 Feb at 0136 UB4UAA (23DB/12DB) and 0215 I1NDP (12DB/10DB). We looked on the CW part of the band and were able to work at 0259 I1NDP (559/559), but then gave up in frustration. I checked a few hours later, after the EU window, and found the noise had stopped somewhat. I decided to try again during my JA/VK window, but set my alarm incorrectly and arrived in my shack just as the Moon was about to set. Thus, **my overall score was only 11x11** and not very satisfying. I plan to be QRV for the 13 cm DUBUS Contest.

NET/REFLECTOR NEWS: **UA0ZGX** is now active on 70 cm EME from Asiatic Russia with a single yagi and 20 W; and made his second QSO with UA3PTW using JT65B in Feb. **N4PZ** has new driver devices and hopes to be QRV on 13 cm again soon. **N6QVP** is looking for 1296 QSOs n6ovp@pacbell.net and plans to be on for the DUBUS 23 cm contest in April. **SV1BTR** has a new email address jimmyv@otenet.gr. Jimmy is considering becoming QRV again after more than 5 years of inactivity. **VE1KG** is listening on 3 cm with a 77 cm offset dish and Funcube dongle + a TVRO LNB to receive the beacon using QRA64D. **WA3QXP** should have a big signal on 1296 soon. Paul is re-mounting a TVRO dish (TEK 2000 – see FOR SALE) on an EI-Az mount.

FOR SALE: **ZL1UKG** has for sale for ZL1EME's widow a completely packaged 1 kW DB6NT 23 cm SSPA and PSU. It is in two heavy duty cases for power supply and amplifier with water cooling by radiators and fans external to the amplifier case, including a 30 W driver module and a 1000 W module. The amplifiers are protected by circulators and dummy loads between stages. The PSU contains a Meanwell RSP 2400-48 = 48 V @ 50 A power supply, a Power Tech S-150-24 = 24 V @ 6.5 A and a 12

V supply for control circuits. (ZL power is 230 V 50 Hz). The PA is 20 kg and the PSU is 8 kg. If interested please contact Peter at peterlov@xtra.co.nz. [It appears a great deal]. **WA3QXP** reports that TEK 2000 dishes are available for \$2 k US shipped from Canada (~ \$300 shipping to US). **PA2DW** is looking for a pricewise source of MAB25 rotary encoders. If can help contact Dick at qtc@kpnmail.nl. **VK5ABN** is looking for any data on the NAH-2141D amplifier and the RF power transistors. If you can help contact Berndt at wulf@ping.net.au.

FINAL: We are sorry, but we have run out of time. We have plenty of material and will include what we missed this time next month. We had wanted to get this NL out with plenty of time to promote the DUBUS 13 cm Contest. As it stands now, you will be lucky to receive this NL before the start of the contest.

► The Swedish EME Conference is only a couple of months away. Lars (SM4IVE) sm4ive@telia.com has sent in the following updates -- Today I added some more rooms at the hotel as the participants list is growing. See <http://www.sm4ive.com/delegates.htm>. The deadline for registration and payment is 23 April – a little more than a month away. If you have any special needs such as vegetarian food, please let me know. The following are arriving on Thursday 23 May: OE5JFL and WB2BYP. Please correct me if I am wrong or have forgotten someone. I have booked rooms for those coming on Thursday. If you are planning to sell, there is still space in flea market. If you are bringing LNAs or noise sources for measurement, please send me how many so that we can plan to have adequate time for everyone. If you are arriving at Stockholm ARLANDA airport, there is a Bus transfer direct to Örebro: Bus 4 is just outside terminal. See https://www.nettbuss.com/booking#!/2/1156/1223/2019-05-24/2019-05-6/BONUS_SCHEME_GROUP.ADULT,1/. More updates will follow.

► For EMEers in the US, the Super VHF Conference will be held on 26-28 April at the Holiday Inn Washington-Dulles Intl Airport in Sterling VA. This is one of the largest VHF gatherings in the states. It occurs every few years. Many of the active US EMEers will be there. You might want to consider attending. Registration is \$99 up to 31 March (\$110 after if available). Includes lunch and all day beverages on Fri. & Sat., plus Hospitality Room on Thu. and Fri. evenings. Banquet is \$43 up to 31 March (\$50 after if available). See <https://vhfsuperconference.com/>.

► N4PZ wants to announce that he and WB2BYP are on 3670 (or 3675 alternative) nightly at 9 PM CT. They are trying to get the old 75 m gang together again. They have a couple of new guys at various stages of becoming QRV on 1296 EME. N9EM in Madison, WI and KD0IF in Iowa. Please join them if you can.

► ON0EME (1296 Beacon) has received its new license with no change in restrictions - same as before. TNX for this info to ON7UN.

► We will be looking for you off the Moon. If you are QRV on 13 cm don't miss the contest on 16/17 March. 73, Al - K2UYH and Matej – OK1TEH

CONFIRMED 432 MHz WAC COMPLETION

No.	Call	Name	Last WAC QSO date	Certificate Date	Comment	Source
1	K2UYH	Al Katz	July 29, 1976	August 8, 1976		K2UYH, 3/6/19
2	G3LTF	Peter Blair	January 23, 1977	April 19, 1977		G3LTF, 3/6/19
3	W1JR	Joe Reisert	March 6, 1977	April 1, 1977		G3LTF, 3/6/19
4	VE7BBG	Cor Maas	April 27, 1977		SK	G3LTF, 3/6/19
5	PA0SSB	Jan Ottens	(pending)	May 20, 1977		PA0SSB, 3/2/19
6	SM5LE	Sven Nordin		June 17, 1977		SM5LE, 3/2/19
7	LX1DB	Willi Bauer		July 6, 1977		LX1DB, 2/28/19
8	WB5LUA	Al Ward	(pending)	October 14, 1977	now W5LUA	W5LUA, 2/28/19
9	F2TU	Philippe Pierrat	October ?, 1977			F2TU web page
10	I5MSH	Sandro Montagni	1977		Date is estimate, email request sent	
11	K3NSS	CLUB	1977		Date is estimate, mail request sent	
12	K3PGP	John Yurek	1977		Date is estimate, email request sent	
13	W1SL	Thomas McMullen	1977		SK; Date is a reported estimate	
14	W0YZS	Mike Vestal	1977		SK; Date is a reported estimate	
15	ZE5JJ	Peter Carey	1977		SK; Date is a reported estimate	
16	DL9KR	Jan Bruinier	October 21, 1978	October 30, 1979		DL9KR, 2/28/19
17	SM3AKW	Carl Mohlin	March 22, 1980	February 10, 1981		SM3AKW, 3/8/19
18	JA6AHB	Toshio Tanaka	April 20, 1980	1980		JA6AHB, 3/3/19
19	DL7YCA	Manfred Ploetz		May 8, 1980	now DL7YC	DL7YC, 3/1/19
20	YU2RGC	Dragan Viskovic		July 23, 1980	Now 9A5AA	9A5AA, 3/1/19
21	OK3CTP	Jano Polec	1980		SK; Date is a reported estimate	
22	HB9BPQ	Keith Juson	April 11, 1981	1981	Now G0JLO	HB9BPQ, 3/8/19
23	YU1AW	Dragoslav Dobricic	July 24, 1981			YU7C, 3/6/19
24	OK1KIR	CLUB		August 6, 1982		OK1KIR, 2/28/19
25	DF7VX	Hellmuth Fischer	1982		Date is estimate, mail request sent	
26	KL7WE	Tim Pettis	1982		SK; Date is a reported estimate	
27	DK5AI	Wolf Hellberg		October 25, 1983		DK5AI, 3/1/19
28	SM4IVE	Lars Pettersson		October 13, 1986		SM4IVE, 3/4/18
29	WB5AFY	Dan Osborne	(pending)	April 24, 1987	Now W5AFY	W5AFY, 3/1/10
30	NC1I	Frank Potts		July 28, 1987		NC1I, 3/4/19
31	KU4F	Lester Cockram	October 25, 1988	February 1, 2019		KU4F, 2/26/19
32	SM0PYP	Paul Chominski		February 13, 1989	1st award, see below	WA6PY, 3/1/19
33	VE4MA	Barry Malowanchuk	(pending)	November 13, 1990		VE4MA, 2/28/19
34	PA3CSG	Geert Stams		July 20, 1990		PA3CSG, 3/1/19
35	PA3DZL	Jac de Bruijn	January 27, 1991			PA3DZL, 3/7/19
36	K2OS	Frank Pollino		April 25, 1991		K2OS, 3/6/18
37	K4PKV	Dick Hattaway		1991	Now W4PID	W4PID, 3/1/19
38	OK1CA	Frantisek Strihavka		September 17, 1996		OK1CA, 3/1/19
39	HB9Q	DX GROUP		July ?, 2002		HB9Q, 3/1/19
40	SK0CC	CLUB	June 18, 2002	November ?, 2002		SM2FOB, 3/4/19
41	VE6TA	Grant Furnal		July 3, 2006		VE6TA, 3/2/19
42	OK1DFC	Zdenek Samek	October 4, 2006	December 4, 2006		OK1DFC, 3/1/19
43	K3MF	Wayde Bartholomew	(pending)	October 31, 2012		K3MF, 2/28/19
44	KD3UY	Bob Baker		March 13, 2014		KD3UY, 3/1/19
45	ON4AOI	Guy Dewaelhens	June 13, 2015			ON4AOI, 3/4/19
46	FR5DN	Phillipe Mondon	April 10, 2016			FR5DN, 3/2/19
47	K4MSG	Paul Bock	November 20, 2016	February 17, 2017		K4MSG, 2/28/19
48	KD5CHG	Matthew Lanese		January 9, 2017		
49	WA2FGK	Andrew Furlong	May 10, 2017	October 12, 2017		WA2FGK, 3/1/19
50	PA2V	Peter Gouweleuw		December 15, 2017		PA2V, 3/3/19
51	VA3ELE	Peter Paul Prabucki	(pending)			VA3ELE, 3/8/19
52	PA0PLY	Jan Kappert		January 19, 2018		PA0PLY, 2/18/18
53	DL8FBD	Gerald Nenner		May 4, 2018		DL8FBD, 2/28/19
54	K5QE	Marshall Williams	September 8, 2018	February 1, 2019		K5QE, 3/8/19
55	WA6PY	Paul Chominski		September 28, 2018	2nd 432 WAC, under new callsign	WA6PY, 2/28/19
	W2HRO	Paul Andrews			Application for certificate submitted	W2HRO
	VK4CDI	Phil Moat			Application for certificate submitted	VK4CDI

NOTE: Stations are in order by date of last qualifying WAC QSO, or by certificate date if the last QSO date not known/unavailable. If only a "year" is available and not a complete date, stations are in order alphabetically by year. Comments in RED reflect incomplete/estimated data/dates. Any assistance with contact and/or verification is appreciated; email pbockjr@gmail.com.

3/8/2019

Compiled by K4MSG & G3LTF with a LOT of assistance from the EME community.