432 AND ABOVE EME NEWS
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CONDITIONS: There will be no May newsletter (NL) this year. Because of the way the activity weekends (AWs) and contest dates have fallen, it seemed more appropriate to call this the June rather than the May NL. Generally good conditions and a good turnout prevailed for the 13 cm round of the DUBUS EME Contest on 7/8 May. Based on preliminary reports F2TU appears to be in the lead with 49 QSOs, but followed closely by OK1CA with 48. There was also a reasonable turnout for the 6 cm EME contest on the weekend earlier (30 April/1 May). On 5760 OK1KIR appears to have the lead with 20 QSOs. Attention is now focused on the 23 cm leg coming up on 4/5 June. DL1YMK will be operating from a surprise dxpedition location during this contest. Dxpedition activity will actually begin on 28 May and include operation on 70, 23 and 13 cm – see Michael and Monika's report for more details. DL8YHR's planned May dxpedition including 70 cm EME to EY in central Asia was postponed due to political unrest in the area. Frank plans to try again later in the year or in Spring 2012. For the microwave EMEers next month there are 9 and 6 cm EME AWs on 2/3 July for 9 cm and 30/31 July for 6 cm. These weekends are not the best with a Moon - Sun separation of only about 10 and 4 degs respectively, but the declination and path loss are reasonable. In recent years there has been a good turnout for these events and the same is hoped for this year – try to make them. There is no additional info on the Onsala Space Observatory 6 cm EME tests reported in the last NL. Please don't miss the next 70 cm CW activity time period (ATP) coming right up on Sunday 29 May from 0500 to 0700 and 1100 to 1300. There is no 70 cm ATP in June, but there will be one on 3 July from 800 to 1000 and 1500 to 1700.

CT1DMK: Luis cupido(x)mail.ua.pt was QRV on 13 cm for the DUBUS Contest -- I was quite motivated to work all new ones as this was my first EME contest on 13 cm, my newest band, and had great fun. The system was worked without any issues; however, I had strong interference at both moonrise and moonset from WiFi, which I do believe was the results of intermodulation as my spectrum analyzer showed no signals at all from 2300 to 2400, but very strong "stuff" on 2100-2200 – [see WA6PY in the Tech. part of this NL]. Too much unfiltered frontend gain seems to be my problem (28 dB of preamp before the transverter). My east window is a challenge. I worked just two JAs and no VK. I missed VK3NX, but we had no more than a 10 minute common window. During the first pass I worked 30 stations: JA4BLC, OK1CA, OK1KIR, RK3WWF, SP6OPN, LZ1DX, SV1BTR, IW2FZR, F2TU (killing my ears!), PA0BAT, ES5PC, SV3AAF, OH2DG, LA8LF, G3LTF, G4CCH, SM2CEW, VE6TA, WW2R, S50C, K2UYH, DL1YMK, OZ4MM, W5LUA, DL4MEA, WA6PY, PY2BS, SP6GWN, WD5AGO and LX1DB, and 9 more in the second pass:
JA8ERE, SD3F, G3LQR, G4DDK, PA3DZL, W7JM, VE4MA, NA4N and S59DCD for a total of 39 QSOs and 22 initials to bring me to #44. I also heard JA8IAD but no more time! The smallest station was G4DDK with a nice signal. My > QSO with VE4MA was quite an experience. I noticed a station 2 kHz lower in freq that appeared at the same time as Barry and also went off at the same time; funny coincidence... but for 2, 3 and 4 times! Hummmm, something was not right. I put a second VFO on that signal and it was also Barry. I ruled out a failure on this side as 1) I had no wine at lunch, 2)he was the only one coming through in double, and 3) the libration fading was different on both signals. Later I put one signal on my left ear and the other on my right, the stereo effect was unbelievable, and much more copyable! Later I saw Barry on another freq with the same effect but the lower signal was much weaker, and then disappeared. Did anyone else notice this?

DJ3JJ: Andreas dj3jj(x)gmx.net writes about the 70 cm DUBUS EME Contest -- I was QRV during the contest on Sunday 10 April for some hours, but had a lot of trouble with my tube PA due to high VSWR. I was forced to reduce my TX power to 300 W. I copied OZ4MM (559) around 1200, but could not reply due to a problem with my sequencer. Finally I worked UA3PTW on CW (549/O). I was using 4 x 7015 (4.8 wl) YU7EF yagis. I seem to have a problem with using the straight dipoles directly soldered to the coax without any 1:1 balun. Since the contest, I have dismantled the array to set up my 23 cm 2.5 m dish. I will build up the 4 yagis again for the ARRL contest in Nov. It takes only about 1-2 hours to switch between the 70 cm array and the dish. I only need to exchange the h-frame for the dish. I want to make as many random 70 cm CW contacts as possible in ARRL contest, and will optimize my matching to enable me to run > 1 kW.

DJ3JJ's new 4 (YU7EF) yagi array

DL1YMK: M & M's dl1ymk(x)aol.com 2011 EME dxpedition is to another "surprise location" -- We will set out for our next EME Dxpedition at the end of May, and will need 3 days for travel and for set up of the station. We intend to start operation, provided all goes smooth and WX permitting, on Saturday, 28 May on 23 cm. As the location where we plan to operate has very limited amateur power levels, the country's telecommunication authority has proposed that we apply for a temporary commercial radio license in order to be allowed enough power for EME. (We need to pay for this special permit, of course). So we will be active with our "normal" signal strength, hopefully providing a new country for you over the Moon! As in the previous years we will not announce the callsign beforehand to increase the fun for all interested hams in the first days of operation. We should have excellent Moon windows for Australia and Japan, (we will have gear for the JA 13 cm band), as well as the USA and Canada. Due to limitations on our available days for holiday this year, the operation is limited to 9 days, and will end with participation in the 23 cm DUBUS contest on 4/5 June. Here is the detailed schedule for operation on the 3 available bands, (unfortunately, we were refused a license for 9 cm): Sat 28 May 0030 to 1300 on 23 cm, Sun 29 May 0100 to 1400 on 13 cm, Mon 30 May 0130 to 1600 on 70 cm, Tue 31 May and Wed 1 June off for sightseeing (assuming all worked as planned), Thu 2 June 0300 to 2000 on 13 cm, Fri 3 June 0400 to 2000 on 70 cm, Sat 4 June 0500 to 2020 on 23 cm (DUBUS), and Sun 5 June 0630 to 2100 on 23 cm (DUBUS). Frequencies will be 432.045, 1296.045, 2320.100 TX/RX (also RX on 2301.975, 2304.100 and 2424.100). Like in R2 we will have SDR on all bands, so please spread out a little, especially the big guns, which are easy to 'see' on the waterfall display.

DL4MEA: Guenter guenter.koellner(x)mixed-mode.de reports on his DUBUS 13 cm results -- I had very limited time during the weekend due to Mother's Day and other social activities that badly matched the daytime Moon window. Nevertheless, I found some moments to operate. I worked on Saturday G4CCH, IW3FZR, CT1DMK, F2TU, OH2DG, DL1YMK, SM2CEW, ES5PC, LA8LF for an initial (#), OK1KIR, PA0BAT, OK1CA, SP6OPN, G3LTF, OZ4MM, WW2R(crossband - X) and K2UYH(X). On Sunday I only found a short period of time and added SV3AAF and PA3DZL. I tried to raise SV1BTR's attention

with many crossband calls without success. So, I was not totally enjoying the full benefits of my new improved G4DDK preamp, but I have to admit that this was the first contest where I switched off the CW filter and worked with tropo bandwidth; so strong were the signals. I used my 4.5 m dish (f/d = 0.32), septum polarizer feed with chaparral choke, G4DDK preamp (0.3 dB NF), and about 300 W at the feed.

DL6SH: Slawek dl6sh(x)online.de 23 cm SSB Contest has arrived a little on the late side, but still presents a useful picture of SSB contest activity – I operated with OK3RM from my station near Stuttgart (JN48sw). My antenna is still the 4.8 m dish with 270 W at a OK1DFC feed. I plan to increase both my dish size and power in future and hope to have a bit bigger signal during the ARRL contest. We worked on 12 Feb at 1110 OK2DL (57/53) JN, 1117 SP6JLW (57/55) JO, 1128 HB9BBD (58/55) JN, 1136 F2TU (55/55) JN, 1141 UA3PTW (55/55) KO, 1209 RA3AUB (56/55) KO, 1245 VK3UM (55/45) QF, 1417 LX1DB (58/56) JN, 1453 SP7DCS (44/559) CW/SSB JO, 1501 DL1YMK (559/559) NC, 1541 S59DCD (449/539) NC, 1550 G4CCH(58/56) IO, 1624 IK5QLO (O/O) NC, 1650 SM4IVE (57/54) JO, 1925 I5MPK (55/44) JN, 1930 HB9MOON (55/55) JN, 1946 F5SE/P (559/559) NC, 2015 DF3RU (56/55) JN, 2126 G3LTF (559/559) NC, 2140 OZ6OL (55/54) JO, 2221 N2UO (55/54) FM, 2250 K2UYH (55/55) FN, 2308 VE6TA (559/559) NC, 2326 WB4OFT (559/559) NC [?], 2351 OZ4MM (57/55) JO and 0014 VE3KRP (449/559) NC. In the contest we scored (17x2+1)x7 = 245 points, plus we made 7 additional CW contacts.

DL9KR: Jan bruinier(x)T-Online.de writes -- In the course of my recovery from my fall, I have had to restricted my EME activities to a minimum, yet I had the pleasure of working PY1KK (579!) in Dec and PJ4X and PJ2/PE1L in April. It was great to work the latter two on CW. After having worked many QRPs on sked or random, I have found that the lower limit for my partner station under favorable conditions is about 3 kW ERP. Therefore I was unable to work C56EME, although I could detect traces of their signal. As it happened, we had a full house (kids plus grandkids) during the DUBUS contest and 6 QSOs were just possible by briefly sneaking away. I am now looking forward to M&M's next mystery stop.

F2TU: Philippe f2tu.philippe(x)orange.fr ends his 13 cm activity report – I QRV on 6 May prior to the DUBUS Contest period and QSO'd LZ1DX (569/579), PY2BS (569/589), CT1DMK (53/52) on SSB, IK3GHY (559/589) for initial #111. During the contest period, I found very good activity from the all regions and good signals. I believe that I contacted all active stations for a total of 49 calls and 52 QSOs including DUPs. Initials were OH1LRY, S50C, G4RGK and S59DCD for a new DXCC (35). I had an SSB QSO with VK3NX (43/55). On the weaker side signal wise were OH1LRY, G4BAO and SM3JQU.

G3LTF: Peter g3ltf(x)btinternet.com sends news on his recent microwave contest results – There was good activity this month on 6 and 13 cm thanks to the DUBUS Contest. The 6 cm event coincided with a family get-together weekend, but I did manage to get in some operating time. On 30 April, I worked OH2DG, OK1CA, IK2RTI, CT1DMK, OK1KIR, G4NNS, W5LUA, and SV3AAF. On 1 May I added PA0BAT, JA6CZD, ES5PC and another contact with OH2DG. I heard VE4MA and F1PYR and had SWL reports from F2CT and SV1BTR. With the low moon declination, I had no window to VK3NX. I measured on 6 cm, Sun noise at 13.9 dB (SF110) and Moon noise as 0.7 dB. I think I can improve on this a bit, but the HB dish surface accuracy is a limiting factor here, even though I only illuminate the 4 m, which has 6 mm mesh. I was QRV for the 13 cm leg of the contest and worked on 6 May F2TU, SP6OPN, SV1BTR, JA8IAD (X), LZ1DX, RK3WWF, JA4BLC (X), PA0BAT, SM2CEW, JA8ERE (X), G4DDK, ES5PC, DL1YMK, OK1CA, SP6GWN, SD3F, G3LQR, PY2BS, OH2DG, LA8LF, S50C for initial #93 and DXCC 36, IW2FZR, GW3XYW, OK1KIR, IK3GHY #94, VE6TA, G4CCH, SV3AAF, CT1DMK, K2UYH (X), OZ4MM, VE6TA, DL4MEA, WW2R (X) and WD5AGO (X), and on 7 May VK3NX with a very nice signal, G4RGK #95 and finally WA6PY (X) and NA4N (X). Heard were LX1DB, IZ2DJP, W7JM, and W5LUA all on 2304 only, and G4BAO on 2320. I heard and called SM3JQU and OH1LRY on 2320, but they couldn't get my call. The total worked was 37 plus 7 more heard. I was very pleased to note that there were 7 UK stations making EME QSOs on 13 cm over the weekend. I measured 18 dB Sun noise on 13 cm with SF101, 0.7 dB Moon noise, and (I've never looked for it before) just over 0.2 dB from Taurus. I had an added 13 cm QSO on 24 May with SM3BYA (549) #96 for his first contact on the band! I think that I have my 6 tube 23 cm PA working OK at a QRO level again, but I am not really sure what was the basic fault. I will be in the hospital on 25 May for back surgery and as a result do not expect to be very active over the next several months – climbing to changes feeds could be a problem.

G4CCH: Howard howard(x)g4cch.com was active in the 13 cm contest -- After a very frustrating start to the contest weekend, I eventually made my first QSO at 1450 on Saturday. I had problems with a new latching relay driver, which worked in the shack but not up on the dish. I spent hours fixing it. I also found my RX patch lead from the LNA to RX down feedline was open due to a bad connector. For good measure my LNA was bad because the bias coil at the HEMT input has fallen off! To save time, I switched out my 0.25 dB NF LNA and ran with my spare 0.36 dB NF LNA. I made a total of 31 QSOs including on 6 May LA8LF, PA0BAT, OK1CA, SV3AAF, VE6TA, G3LTF, PY2BS, CT1DMK initial (#), OK1KIR, SV1BTR, DL4MEA, WA6PY (X), K2UYH (X), F2TU, SP6OPN and ES5PC, and on 7 May VK3NX on CW and SSB (X), S50C (#), SD3F, OH2DG, RK3WWF, G3LQR, LZ1DX, SM2CEW, W5LUA (X), PA3DZL, LX1DB on CW and SSB, IW2FZR, WW2R (X), DL1YMK and WD5AGO (X). Heard were G4RGK, IK3GHY, OH1LRY, W7JM (not listening 2320?), OZ4MM (heard only on 2304), SP6GWN (heard only on 2304), G4DDK and NA4N.

G4NNS: Brian brian-coleman(x)tiscali.co.uk writes on May 24 GHz activity -- During the winter a number of the existing 24 GHz operators and a number of newcomers to the band were busy building, improving or, in my case, completely rebuilding our 24 GHz Systems. These activities started to come together during the week of 2 May. Following the demise of Moonnet, the preferred methods of discussing and planning activity on this band are the 24 GHz list set up by DL7LAU, and the HB9Q 2304 and up logger. It is thus possible that this activity has slipped in under the RADAR of the EME community at large. On 12 May, DF1OI, F2CT, G4NNS, LX1DB, OK1KIR and W5LUA have all had EME QSOs. Contacts are normally made by sked (scheduled time and frequency), but on the 6 May OK1KIR came on without telling anyone and I and others had completely random QSOs with the team. This is probably another first for the band. There were a number of challenges to our 24 GHz EME operation starting with the Moon being at near apogee and adding about 2 dB to the path loss. The weather is another important variable when using this band. For most of us, only LX1DB is all solid state as far as I know, equipment on the dish is operating at high voltage. The TWT supplies do not enjoy damp weather and still less rain! Also, absorption of 24 GHz RF due to water vapor in the atmosphere is a problem. I estimated an additional 3 dB of path loss due to high humidity (~60%) when beaming at the Moon at low elevations, compared to the high elevations near Zenith. Another challenge to cope with is spectral spreading. During these tests, it was in the region of 150-250 Hz. I find it easiest to resolve such signals when the side tone is centered on about 500-700 Hz and with a relatively wide filter width of at least 2.5 kHz. Yet another challenge is finding the weak signals with the considerable and rapidly changing Doppler shift. During my QSO with W5LUA, I noticed that my echoes were appearing on 24048.077, while his signal was on 24048.115 MHz. We were both transmitting on 24048.100 and most of us are GPS locked and need to be! I and some of the other new boys on the band are using the ubiquitous RW1127 TWT modified according to the recipe from DK3UC to convert them from 12 GHz SMA in and out, to a harmonic mode at 24 GHz with WG in and out and a potential for up to 40 W. I have only achieved 25 W or so, but am more than happy with that. I may have more as my measurements could contain significant errors and judging by the way that flexible waveguide is dumping the RF out of the shack window, which was getting quite warm, I suspect that my measurements might understate the output power. (Don't even think about using flexible waveguide in your EME system unless you know it to be very good and you have power to spare). Others known to be striving to get on the band (this year hopefully) include CT1DMK, DL6LAU, DL7YC, PA0EHG, F6DRO, LZ1DX, WA6PY and VE4MA (returning to 24 GHz). Sorry if I have missed anyone. Some sound recordings and pictures can be found at http://myweb.tiscali.co.uk/g4nns/G4NNSEME24G.html. There has never been a better time to get on the band!

G4RGK: Dave g4rgk(x)btinternet.com was on 13 cm for the contest, but his activity was time limited -- I found my feed relay box and preamp full of water. I had last used the system in Oct. It took me most of the first day to regain the lost performance due to corrosion, and I was still around 2-3 dB down on Sun noise. Thus I was not hearing too well. In the short time that I was able to operate, I worked around half a dozen stations, all on 2320. I have RX for 2304 and the VK frequency, but was unable to attract any attention from stations on that frequency. I have now changed back to 23 cm for the contest in June.

JA4BLC: Yoshiro ja4blc(x)web-sanin.co.jp sends news of his activity during the 6 and 13 cm legs of the DUBUS Contest -- I was an SWL on 5760 using a 3 m solid dish. On Saturday, I only heard OK1CA (M) and JA6CZD (T). My noise measurements were good, but the strength of these 2 stations was much weaker than my previous experience using a 6 m mesh dish last year. I discovered that I had made a mistake with my RX polarization because I use a sub-reflector for a Cassegrain configuration. On Sunday I corrected the feed polarization, and heard between 0310 and 0440 despite high winds, copied OK1KIR (559), OK1CA (559), JA6CZD (449) and OH2DG (559). I was able to listen until my AZ reached 253 degs when half of the dish was blocked by my 6

m dish. The dish I used had an f/d 0.25 and used a sub-reflector of 30 cm dia in milled aluminum - TNX JH3EAO. These SWL results have encouraged me to get an SSPA for 6 cm in the future. When I set up for the 13 cm contest, I found the elevation actuator of my 6 m dish made a BIG noise and did not work. Some plastic parts including the main gear were broken. I managed to replace it with a spare actuator and was able to listen on 2304 about 1.5 hours later than my announced plan. Fortunately VE6TA replied to my CQ immediately and I worked him very easily. I worked 13 stations in the contest: VE6TA, OK1CA, OH2DG, ES5PC, F2TU, SP6OPN, OZ4MM, G3LTF, PA0BAT, CT1DMK, SV1BTR for initial #47, WD5AGO and SD3F. Heard but not worked were SM2CEW, RK3WWF, LZ1DX, OK1KIR, PA3DZL, G4CCH, SP6GWN, VK3NX (2301) and DL1YMK.

JA6CZD: Shichiro ja6czd(x)mx35.tiki.ne.jp was QRV on 6 cm for the DUBUS Contest -- I worked on 30 April OK1CA (559/559), OK1KIR (559/559) and W5LUA (559/559), and on 1 May OH2DG (559/559), PA0BAT (549/539), G3LTF (O/O) and CT1DMK (O/O). Heard were PA0BAT and OH2DG. I suffered from high wind on both days, but still worked a total 7 stations on 5760. I am presently not qrv on 13 cm and AM primarily occupied with my 6 cm and 3 cm gear.

JA8ERE: Mikio sgl01011(x)nifty.ne.jp did not make it on for the 6 cm contest as he had problems with his system. He was active for the DUBUS contest on 13 cm contest and worked SP6OPN, OK1CA, OH2DG, SV1BTR, F2TU, OZ4MM, ES5PC, G3LTF, PA0BAT, LX1DB and CT1DMK.

LA8LF: Anders anders(x)la8lf.com was QRV on 13 cm for the DUBUS Contest -– Back during the ARRL Microwave EME Contest, I could only TX on 2320. I now can also TX on 2304 and have a new OM6AA septum feed that has improved my reports. It is actually a super VE4MA feed with a 5 step septum and longer WG. Sadly, the JA band is blocked by 35 dB WiFi signals, so I have no hope to work the Japanese stations. Luckily I managed to work JA4BLC back in 1997, so Asia is OK for WAC. Now I need only VK3NX, but I had no window for him this time. I am the only station QRV on 13 cm EME from Norway at the moment as LA9NEA has taken down his dish. I am now at my summer home on an island at the southern tip of Norway. We will return to my EME QTH in early Sept. There is a slight possibility that I will be able come back for the DUBUS 23 cm Contest Weekend in June.

NA4N: Greg na4n(x)comcast.net 2304 DUBUS Contest results follow -- I just finished building a four board (60 W each) 2304 amp for 200+ W in time for the contest. I worked the following stations: VE6TA, F2TU, OK1KIR, ES5PC, SV1BTR, OH1DG, SP6OPN, OK1CA, OZ4MM, K2UYH, WD5AGO, LA8LF, RK3WWF, CT1DMK, LX1DB, WA6PY, G3LTF (X), PY2BS and WW2R. I am now looking forward to the 1296 leg of the contest.

OK1CA: Franta's strihavka(x)upcmail.cz report for the DUBUS EME Contest, 5.7 and 13 GHz parts follows –- On 6 cm, I was only QRV in morning on Saturday 30 April and worked VK3NX, IK2RTI, OK1KIR, JA6CZD, OH2DG, ES5PC, PA0BAT, CT1DMK, DL4MEA, G4NNS, G3LTF, SP6GWN for an initial (#) and SQ6OPG (#). On Sunday, 1 May I added SV3AAF, W5LUA, VE4MA, PA0EHG and WA6PY. I heard F1PYR. I used a new SSPA with 25 W at the feed and my 10 m mesh dish that is for the lower bands and does not have good efficiency on 6 cm. I measured a Moon noise of only 1.4 dB. The weather was good on Saturday, but I had problems with strong wind on Sunday. The 13 cm leg was my best ever contest on 13 cm. I worked on Saturday 40 QSOs and on Sunday another 8 QSOs for a total of 48. I made initials with CT1DMK, G4RGK, S50C for #100, S59DCD and SM3JQU. There was very good activity from the all regions and good signals from stations even with small dishs as G4DDK, G4RGK, SP6GWN, IZ2DJP and others.

OK1KIR: Tonda and Vlada report on their club's EME activity on 23, 13, 9, 6 and 1.25 cm at the end of April and the in May – On the weekend of 30 April/1 May, despite bad WX reported from many areas and extra path loss due to near apogee, we found very good activity in the 6 cm part of the DUBUS EME Contest. Unfortunately, the strength of signals was significantly impacted, which penalized small stations, preventing many QSOs. It is evident that on higher MW bands, apogee is not a reasonable time for an EME contest. However, OK1KIR still collected 20 stations and another 4 (F2CT, JA4BLC, PA7JB and VE6TA) reported copy of our signal. Moon noise was measured at 1.2 dB. We worked on Saturday 30 April VK3NX (569/579), IK2RTI (559/569), OK1CA (569/579), JA6CZD (559/559), OH2DG (569/569), SP6GWN (549/559), PA0BAT (559/569), ES5PC (559/569), DL4MEA (549/O), CT1DMK (559/559), G4NNS (559/559), G3LTF (549/569), SQ6OPG (M/O), IZ2DJP (O/O) for initial #45, PA0EHG (559/559), W5LUA (569/559), SV3AAF (549/549), WA6PY (O/O) and VE4MA (O/O). On Sunday 1 May, we added F1PYR (O/O) #46 and W5LUA (569/569) as a repeated QSO. We worked on 13 cm on 6 May at 1849 ES5PC (559/569) when testing equipment before the contest, and in the contest on 7 May OH2DG (559/569), OK1CA (579/579), SV1BTR (569/569), RK3WWF (549/559), LZ1DX (549/559), G4DDK (O/529), SP6OPN (569/569), CT1DMK (559/559), F2TU (569/569), DL1YMK (559/559), SM2CEW (559/579), PA0BAT (559/559), IW2FZR (559/559), G3LQR (559/559), ES5PC (579/569), S50C (549/539) for initial #106, S59DCD (549/549), LA8LF (559/569), G3LTF (569/569), PY2BS (559/559), NA4N (549/559), SP6GWN (549/549), SD3F (559/559), K2UYH (559/559), SV3AAF (559/559), IK3GHY (549/539) #107, G4CCH (569/569), VE6TA (569/569), WA6PY (559/559), N8UO (559/559) #108, VE4MA (O/O), OZ4MM (569/569), WW2R (549/559), DL4MEA (569/569), LX1DB (579/569) and WD5AGO (559/559), and on 8 May VK3NX (O/529), S50C (539/539), PA3DZL (549/449), W5LUA (579/579) and W7JM (579/579). We worked 40 stations in total. During some short breaks in otherwise strong continuous QRM from the local WiFi service, we heard JA4BLC and JA8ERE. In QSO with OK1CA, we heard SM3JQU at (M) level. Otherwise we had perfect WX (sunny, blue sky just with some light clouds) during the whole contest. On 24 GHz, we worked on 4 May at 1248 G4NNS (O/O) for initial #6 and the 1st G-OK QSO on 24 GHz. This QSO was repeated at 1318 and at 1603 we worked DF1OI (O/O). With the full dish (4.5 m), we measured Sun noise of 15.2 dB (SF 107), Moon noise of 2.1 dB (later 1.9 dB in clouds) and G/CS of 3.2 dB. We worked on 6 May on 24 GHz at 1505 G4NNS (O/O) and 1638 W5LUA (O/O). Heard were DF1OI and LX1DB. Nil was copied from F2CT, who heard us. On 13 May, we widened the dish beamwidth (1.8 times by under illuminating the dish with a new feed (equivalent to a dish ≈ 2.5 m with an f/D ≈ 0.7). Measured Sun noise was 14.6 dB (SF 92), G/CS was 3.5 dB and Moon noise 2.4 dB (later ≈ 2.0 dB with clouds). We worked at 1833 LX1DB (O/O), 1907 DF1OI (O/O), 1935 G4NNS (O/O) and at 2109 F2CT (M/O) # 7 and the 1st F-OK 24 GHz QSO. Improvement of RX performance by widening the beam was verified in a TX test with LX1DB, who mentioned almost double spread of our signal compared with our previous narrow beam. The same effect was observed on our own echoes. We have had own echoes till elevation of 5.5°, when echoes were finally swallowed by the humid atmosphere, though the Moon was still visible. On 23 cm on 14 May we worked on JT65C at 1743 ZS6WAB (9DB/9DB) for digital initial {#88} and at 1912 OK1YK (16DB/15DB) {# 89}. Nil was copied in a sked with RA0ACM. At 1924 we QSO'd OK1YK (O/559) on CW for initial # 308. On 9 cm we worked on 22 May at 0124 PY1KK (559/559) for initial #36, GG field and the 1st PY-OK 9 cm QSO. Bruce's signal was 15~20 dB over noise.

PA3DZL: Jac pa3dzl(x)planet.nl was only QRV on Sunday during the 13 cm contest weekend -- I worked OK1CA, SV1BTR, F2TU, SP6OPN, ES5PC, OK1KIR, CT1DMK for an initial (#) and new DXCC, OH2DG (#) and DXCC, RK3WWF (#), DL4MEA, SM2CEW, G4CCH and PY2BS for 13 QSOs, all on CW. I heard VE4MA and K2UYH on 2304, but could not get their attention. My rig was a 2.5 m dish with f/d of 0.37, VE4MA feed, G4DDK preamp with < 0.4 dB NF and SSPA with 250 W output in the shack and about 175 W at the feed.

PY2BS's 4 m dish (call PY1KK) with 9 cm feed in place

PY2BS: Bruce bruce(x)zirok.net sends his 13 cm DUBUS Contest report and info on new 9 cm activity – I had 33 QSOs during DUBUS 13 cm part of the contest. I worked on Saturday: ES5PC, SP6OPN, F2TU, OK1CA, OH2DG, G3LTF, SV1BTR, LZ1DX, OK1KIR, G4CCH, DL1YMK for an initial (#), SV3AAF (#), VE6TA, PA0BAT, OZ4MM, CT1DMK, WA6PY, K2UYH (#) [worked K1JT?], SP6GWN, LX1DB and WW2R (#), and on Sunday LA8LF (#), RK3WWF (#), SD3F, G3LQR (#), SM2CEW, W7JM, W5LUA, IW2FZR, PA3DZL, WD5AGO, VE4MA and NA4N. I also made 3 initials before contest began with CT1DMK (#) and OH1LRY (#) on JT and G4BAO (#) on JT. after a long preparation, and few delays, I finally got my first EME on 9cm, which is

also the first 9cm EME ever from PY, as well as the first OK - PY on the band. Following the 13 cm contest I went to my coast QTH with the missing items for a first try on 9 cm. With the Moon in South, my best expectation was getting some recognizable echoes. I didn't ask for skeds as I was unsure it would work this time. My 9 cm setup is made of my 4 m (0.42 f/d) dish previously used on 23 cm and 70 cm, RA3AQ septum feed, DB6NT LNA and SSPA (200 W at the feed), Down East Microwave xvtr, G3RUH 10 MHz GPS ref, IC-910H and OE5JFL antenna controller. Just after arriving by luck I met OK1DAI on the HB9Q logger. Tonda kindly drove to OK1KIR on next moonrise for a try. Meanwhile, I assembled the system and detected good Sun noise. I cannot quantify the actual level as the indication on my IC-910H is too course. I also confirmed power from the PA, but could not echo test as there was no Moon. Later, as soon as the Moon showed up, the strong CW signals from OK1KIR were immediately heard and we had a very easy QSO. I could also hear my own echoes. And that was it, an easy and happy ending for a long effort. Many, many thanks to Tonda and Vlada for making OK1KIR's signal available on such very short notice. My next operation on 9 cm is planned for 23/25 June. Unfortunately I cannot be available for the July 9 cm AW, as I'll be abroad. I do plan to be QRV for at least one Moon pass of the ARRL MW contest. Please e-mail for possible skeds.

S50C: Matija (S53MM) s53mm(x)lea.hamradio.si on his groups 13 cm activity from JN76jg during the contest –- We are using 2.48 m dish with 150 W at feed and a 0.38 dB NF LNA. Our first QSOs on 13 cm EME were with F2TU, ES5PC, SP6OPN, OK1CA, SM2CEW, SV1BTR, G3LTF, OH2DG, CT1DMK, OZ4MM, G4CCH and OK1KIR. We also heard PY2BS and W7JM. Occasionally we can hear our own echoes.

SM3BYA: Gudmund sm2bya(x)telia.com is temporarily QRV on 13 cm and interested in skeds -- I have recently been issued a time-limited high power permit for 2.3 GHz. To make use of this permit, I made an all out effort to become QRV on 2.3 GHz in time for the DUBUS contest, but unfortunately I blew out my preamp twice in succession when transmitting for the first time and resigned myself to SWLing. I copied some 25 different stations off the Moon during the contest weekend - so now I know that the RX side of the system works real well as long as the preamp is not blown! I have investigated the burnout problem and fixed the cause (bad latching relay. I want to set up as many skeds as possible before the end of June when the present hi power permit elapses. I can run skeds on 2304 or 2320. I will be available for skeds from about 1 June to 8 June 8, and essentially whenever the Moon is above my horizon in JP81nx – including the 1296 contest weekend. I will also be QRV from 22 June to the end of the month; again whenever I have a visible Moon. The station is 3 m solid dish (f/d 0.34), choked septum horn, 200+ W at the feed and a G4DDK preamp with 0.52 dB NF. I am seeing about 12.5 dB of Sun noise. [Gudmund has already QSO'd G3LTF – see Peter's report].

SV1BTR: Jimmy jimmyv(x)hol.gr is now QRV on 6 cm EME -- With my 4.9 m dish, I was an SWL on 6 cm EME for a limited time during the first Moon pass of the DUBUS contest period. I copied strong signals from OK1CA, PA0BAT and G3LTF. The WX was excellent with zero wind, 14 dB of Sun noise, 5 dB CS/G noise and 0.9 dB of Moon noise at apogee. My TWTA decided to stop working even though it had been operational in earlier tests. I plan to be back on 6 cm again in the Fall hopefully then with TX.

TI2AEB: Armando aebonill(x)ice.co.cr remains active on 432 EME and is working to improve his system. He wants to increase his output power and is looking at both solid state and tube options. He wonders if anyone is using the surplus Russian PAs being offered by UR4LL. He is also planning to add 1296 EME and is working on a dish and looking for an SSPA.

TI2AEB's shack

VE4MA: Barry ve4ma(x)shaw.ca was active during the 13 cm leg of the DUBUS Contest and notes that he had reports of dual signal transmissions, [See CT1DMK's report] –- F2TU informed me of the problem, and I quickly checked the image rejection of my SDR1000 rig and found it was poor. I readjusted it and then I had a much better signal in the rest of the second day. I am getting ready for preliminary tests on 78 GHz.

W4AS: Sebastian w4as(x)bellsouth.net in EL95 writes on his 70 cm EME activity -- A few months ago, I made a couple of JT65 432 EME contacts using a circularly polarized antenna, with just 50 watts from my TS-2000 and a large run of LMR400 coaxial cable. I was encouraged by those contacts, and asked the US Federal Communications Commission and military for a waiver of the 50 W power output restriction in force within this area of the country on 432. While the FCC representative had no problem with the waiver request, the final decision was up to the air force representative at Patrick Air Force Base in Florida. Unfortunately, the air force denied my request. The reason given was "due to military operations in the area". I now have a 25 element horizontally polarized 432 antenna (16.2 dB) using a very short run of LMR400 coax, without elevation for now, so I'm available for skeds with any stations who can work a small station on my moonrise. Thanks to everyone who has encouraged me to pursue additional 432 MHz EME contacts.

W5LUA: Al w5lua(x)sbcglobal.net reports on his 5760 contest activity – On Saturday I worked the following stations on 6 cm: CT1DMK, OK1KIR, G3LTF, ES5PC, OH2DG, IK2RTI, SV3AAF, PA0BAT, PA0EHG, SQ6OPG for an initial #, VE4MA, VK3NX and JA6CZD. On Sunday, my activity was cut short by a storm and power outage; however, I did have a repeat QSO with OK1KIR and then worked OK1CA and DL4MEA. It was fun and the conditions were not too bad considering it was close to apogee. I am not sure why a contest was set up for this weekend. I used my 5 m dish with a WD5AGO CP feed with 90 W at the feed. I had a new 5615 MHz LO employing an N5AC 1123 LO locked to a ISOTEMP 10 MHz reference oscillator, and then driving an amplifier to a 5615 MHz filter and then to another amplifier. The measured phase noise at 5615 MHz was -70 dBc/Hz at 10 Hz offset, which I thought was pretty good. The local beacon sounds T9 here. My old Z3801 reference ran through a distribution amp and did NOT produce as good a phase noise as the ISOTEMP. I am still trying to understand why. My initial totals are now up to on 33 cm #10, 23 cm #339, 13 cm #112, 9 cm #39, 6 cm #44, 3 cm #75, and 1.25 cm #9 and 0.6 cm. [W7QX wrote Phase noise on your Z3801 is probably coming from the CONTROL LINE. When you are using a single frequency (10 MHz), you can bypass the Z3801 control line with a good size electrolytic capacitor (i.e. 100 mfd). Z3801 operation should continue as before, but you will eliminate high frequency "junk"].

WA0ARM: Bill Bill.Glynn(x)westarenergy.com is now QRV on 432 with W0DRL's old array of 8 x 15 el W0EYE yagis and an AM6155 PA with about 150-170 W, and manual elevation –- I have made 2 QSOs with DL7APV and K2UYH. Both were on JT65B. Signals were strong enough during these QSOs for me to hear easily hear the tones on the speaker. I am using a Yaesu FT-857D and its stock crystal, and it drifts more than 50 cycles during transmissions. It drifts so much, that it would not decode reliably. I will try ordering a replacement crystal.

WA0ARM's 8 x 15 el array

WA6PY: Paul pchominski(x)maxlinear.com reports on his 6 and 13 cm contest activity – I QSO'd on 30 April/1 May on 5.76 GHz OK1KIR and OK1CA. I heard a few more stations, but they were buried in noise + QRM. WiFi QRM was much worst than last summer. In the background of 802.11 bursts, I had almost continuous OFDM signal with subcarriers across entire band at every 1 kHz. This signal is weak, but also my noise floor rises. At an EL = 5 degs, the noise floor rises by about 30 dB when compared to looking into the ground. It is thus difficult to define CS/GND noise. I am measuring anything between 3.5 to 6.5 dB. When I sweep the dish at an El of about 40 degs, the noise level varies up to 3 dB. This makes it impossible to find Moon Noise. Only at some points of time, do I hear my echoes. My LNAs are dead stable even without load at the input port. For measurements, I replaced the isolation coax switch with a low loss 0.3 dB circulator, but the noise variations were almost the same. I did better on 13 cm and on 7/8 May on the eastern horizon QSO'd: OH2DG, LZ1DX, SV1BTR, SP6OPN, RK3WWF, ES5PC, OK1KIR, OZ4MM, W7JM, OK1CA, CT1DMK, S59DCD, F2TU, PY2BS, VE6TA, W5LUA, WW2R, SM2CEW, G4CCH, LA8LF, DL1YMK, K2UYH, PA0BAT, SD3F, WD5AGO, NA4N, LX1DB, VE4MA and G3LTF. Heard but lost were IW2FZR and SV3AAF. Crossband operation was difficult to synchronize. I CWNR IW2FZR many times. Libration on VE6TA and LX1DB was so bad that I had a hard time to get their calls. Also the libration on W5LUA on the first day was bad, but on the second day had a very clear signal. The 2424 part of the band was effectively jammed. I listen on 2400 and on 2302 MHz, and in these frequency ranges I am able to copy EME signals, at least the stronger ones. I think I had better results in the past because the signal to QRM ratio on 2424 MHz was better as a result of under illuminating the reflector by my old W2IMU feed. Using this feed Sun Noise is about 0.8 dB lower, but the EME signal/QRM ratio should be better. [See Paul's Technical Report at the end of this NL].

WD5AGO: Tommy wd5ago(x)hotmail.com reports on his recent activity -- Back in April, during the period of the 13th-15th, we were active on 23 cm with a HB 32" inch squared aperture CP horn and 300 W. We QSO'd K1RQG (449/339), G4CCH (339/0), LX1DB (339/559) and SM4IVE (559/429). We called but did not complete with SD3F, ES5PC, IW2FZR, K5JL, N4PZ and others. Overall, a great time was had by our school club. We will also be on 23 cm with the same station during the DUBUS contest on 4/5 June. Back home for the 13 cm contest weekend, but had conflicts with family activities, and could not operate more than about 5 hours. I worked on 7 May OH2DG, SV1BTR, G3LTF, OK1CA, SP6OPN, F2TU, K2UYH, CT1DMK, ES5PC, OK1KIR and NA4N, and on 8 May JA4BLC (S9 QRM this time on 2424), W5LUA, LZ1DX, LA8LF, RW3WWF, SM2CEW, OZ4MM, WA6PY, PY2BS and G4CCH. Overall, I had a good time. I CWNR many stations crossband this time around. I was also on during the VK window. I heard a total of about 30 stations. The station is the same here, a 3.1 m dish, 30 degs LNA, and 240 W TX.

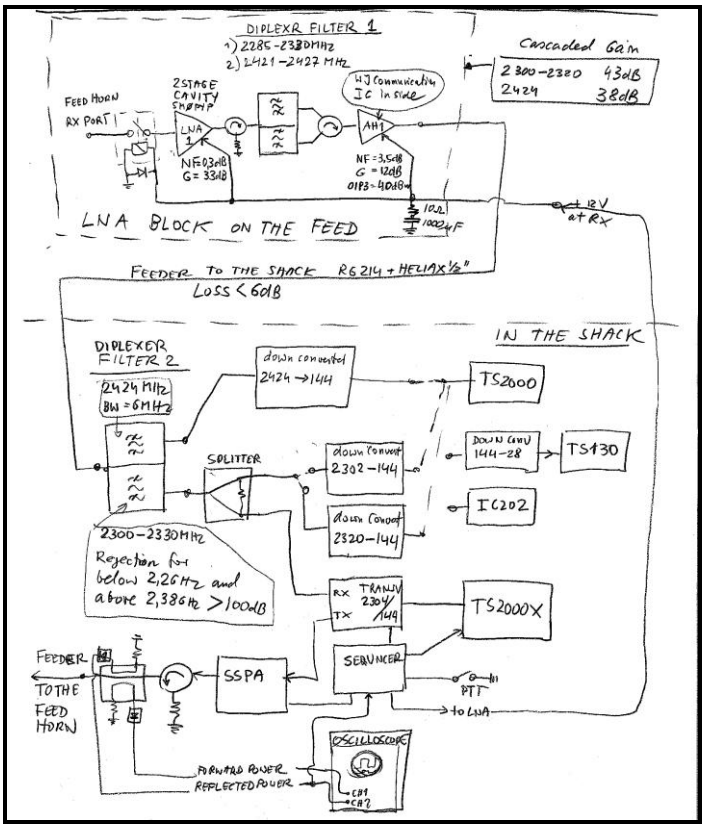
WW2R: Dave's eme_ww2r(x)g4fre.com DUBUS report follows – I had a very successful weekend after I sorted out an overheating problem in my 28 V power supplies. I had to parallel two 50 A PSU to overcome the effect of temperature on current limiting. I worked on Saturday OK1CA, K2UYH (running a free running LO), CT1DMK for an initial (#) and DXCC 27, SP6OPN, OH2DG, SV1BTR, F2TU, K2UYH again (with a more stable frequency, RK3WWF (#), ES5PC, LA8LF, OK1KIR, WA6PY, OZ4MM, PY2BS (#) and DXCC 28 and on crossband DL4MEA and G3LTF, and on Sunday LX1DB, VE4MA (#), NA4N (#) and crossband SM2CEW, G4DDK, DL1YMK and G4CCH for a total of 23 QSOs. CWNR were LZ1DX, IW2FZR and WD5AGO, and heard were SD3F, SV3AAF, N8OU, W5LUA, PA0BAT and G3LQR. My new G4DDK VLNA2+ preamp sure helped; I never heard /worked this many in any EME contest before. I also saw double figure Sun noise for the first time on 13 cm. The station was a 3.1 m dish, 0.31 dB NF preamp, 140 W TX (reduced by heat) and GPS locked xverter.

K2UYH; I a.katz(x)ieee.org was active only on 23 cm and 13 cm this month. I QSO'd on 1296, on 30 April at 1350 OZ4MM (579/569), on 1 May at 1336 SM7FZW (449/559) for CW/SSB initial #317 and mixed #388*, 1347 DL6SH (559/559), 1358 GR4CCH (569/579) - special call for the royal wedding, 1415 OK1YK (14DB/12DB) on JT65C for #389*, 1436 W4AF (559/589) and 1445 OK1YK (549/539) #318. In the 13 cm part of the DUBUS contest I worked on 7 May F2TU (589/569), OH2DG (559/559), ES5PC (559/559), OK1KIR (559/559), SP6OPN (559/569), SV1BTR (569/579) for initial #47, S59DCD (449/559) #48, CT1DMK (559/559) #49, WW2R (559/549), DL1YMK (569/569) X, OZ4MM (579/569), LA8LF (559/559) #50, W7JM (579/579), OK1CA (569/569), G3LTF (559/559) X, SM2CEW (579/559) X, PY2BS (569/569) #51, SD3F (559/559) #52, G4CCH (569/569) X, DL4MEA (559/559) X, NA4N (559/559), LX1DB (579/569), WD5AGO (559/559), SV3AAF (559/559), PA0BAT (559/559) X #53, VE4MA (559/559) #54, LZ1DX (559/559) #55 and WA6PY (559/559) for a total of 28 QSOs and 24 multipliers.

NETNEWS BY G4RGK: **9W2ESM** is interested in EME on 23 cm. He is looking for yagis antenna ideas - [I sent info on dishes]. Syamsul can be reached at syamsulbahri(x)pmm.edu.my. **JA8IAD** worked during the DUBUS 13 cm contest OK1CA, F2TU, SP6OPN and G3LTF. **PA0PLY** has updated his databases for the various bands on his web page at www.pa0ply.nl. **WB2BYP** will be QRV for the 23 cm contest in June. He is still working on a big PA, but will have 175 W from a TH-328 driver to use on Moon. **K1RQG** is still on 23 cm EME and also gearing up for 144 and 220 EME. Joe is looking for ideas for feeds for .5 f/d dish for these bands. **N0OY** has been working on his 23 cm EME station. Pete has also been working on getting young folks interested in microwave and EME. He will try to have a group show up for the 23 cm EME contest weekend. **K0RZ** has not been on 70 cm EME since last June. Bill says he is not interest in digital operation and not motivated to operate. **VE6TA** was active on 13 cm in the DUBUS Contest and will be on 23 cm for the June contest weekend. He is now has a mini-verter from DEMI to interface with FLEX-1500. **SM2CEW** attended EME meeting that SM4IVE had organized in Sweden. He will be on 70 cm for the next ATP.

FOR SALE: **WA9FWD** has some 9 cm Toshiba PAs available. Contact John at Jstefl(x)wi.rr.com. **K4PKV** has > 20 pounds of 4X150A, 4CX250B, 4CX250R tubes, sockets, air chimneys, and other odd assorted goodies. Some are new, some are known good, some are untested; sockets are Eimac and Johnson and a mix of earlier and later sockets. Contact Dick if you're interested at rhattaway(x)rocketmail.com.

TECHNICAL - 13 cm experiments interference tests by WA6PY: Recently QRM on the 2424 band has become very bad. It appears to be mainly from WiFi OFDM signals, but unfortunately I am also getting interference from other sources. I recently ran a test with JA4BLC to better understand the causes of this interference. The declination at the time of the test was low and we had very short window. I need higher elevation to lower my QRM level. For the last few years I switched to the Septum feed based on a RA3AQ design using square waveguide with a transition to circular waveguide and a scalar beam forming ring (Kumar/VE4MA). The septum feed increased my Sun noise/CS by about 0.8 dB compare to my old W2IMU feed. I am using 3.6 m moderately deep dish (f/D of 0.36). I decided to compare how I receive EME signals on 2424 MHz with the W2IMU feed. Yoshiro offered his help in running the test.



WA6PY 13 cm RX System

For a few years I have been using a newer LNA consisting of two stages on microstrip plus a microstrip 5-resonator filter covering 2300 to 2424 MHz, followed by another LNA using a WJ Communication MMIC type AH1 with an OIP3 of 40 dBm. This LNA chain pass a lot of WiFi interfering signals creating

IMD3 and CTB (Composite Triple Beat) non-linear products landing in desired 2424 MHz frequency spot. I dug out and fine tuned my very old cavity LNA (built in 1989) with a first stage using an FHX35LG and replaced the second transistor with an ATF21177 biased at Vds = 3 V and Ids = 60 mA, in order to increase linearity. The entire external LNA setup (see the drawing) consists of the first cavity LNA followed by a very sharp diplexer filter in order to minimize any interference entering the second LNA with an AH1 MMIC. The diplexer filter is a modified DCS 1800 MHz TX/RX diplexer with 6 resonators in each path and a common 7th input resonator. I sacrificed insertion loss in the 2424 MHz pass band for better out of band suppression. This LNA has a measured NF = 0.35 dB including isolating relay. Two-tone IP3 depends strongly on the frequencies of the interfering signals. In the shack, I split signals between 2300-2320 and 2424 converters by means of second diplexer filter with stop band attenuation > 105 dB. This filter not only further improves out off band IP3, but also lowers interfering signals even more to the level that LO reciprocal mixing WiFi products in the 2300-2320 MHz band never are a problem. The 2424 MHz down converter use a 13 dBm double balanced mixer and multiplied xtal LO. This LO arrangement gives me better out off band LO phase noise. (I can probably now build a PLL with similar phase noise performance). Using W2IMU feed instead of septum feed definitely helped me to decrease QRM level picked up by the antenna side lobes. In the frequency bands of 2304 or 2320, I measured that night very stable CS/GNG of 6.7 dB and Moon noise of 0.35 dB. In the 2424 band, I can't measure any noise parameters. Elevating dish from its home position at -8 degs to +5 degs increases the noise by 30 dB, then noise slowly goes down, but I still hear very strong WiFi bursts. I can't measure the QRM noise/CS at high elevation. Using the noise blanker in TS2000, I could receive JA4BLC very well. When we started the sked, I found Yoshiro in the second sequence. He had approximately 5 deg elevation and some antenna blockage. Every sequence after his signals improved, but I started to lose elevation and QRM slowly increases. Finally JA4BLC was solid (549) copy. I believe that with this setup, I will be able to copy JA stations stronger. QRM in 2400-2404 MHz band is much lower than in 2424 segment. It will be very helpful if JA stations to move their EME frequency to 2400 or even 2404 MHz.

FINAL: MORE SAD NEWS - F5FHI (ex-F1FHI) is now an SK. Jean-Pierre suddenly passed away on May 18th at the age of 63. He was presently living in Nairobi, Kenya. Those who were active on 432 EME in the 80's and early 90's will remember his outstanding signal off the Moon (16 x KR yagis). F1FHI won the ARRL EME contest 432 multi-op section in 1989. Those that have met him will also have happy memories of a true 'bon viveur'.

GOOD NEWS – K1RQG is back running the 20 m EME Net. E-mail Joe k1rqg(x)aol.com if you were dropped from his NETNEWS mailing list.

PLANS for the 15th International EME Conference, Cambridge 2012 are moving along very well. G4NNS has announced that the Conference Web site at http://www.eme2012.com/ now has a preliminary schedule posted so that you can start thinking about your travel arrangements. It also has details on the organizing committee. The booking site is scheduled to go live in Jan. Brain promised to keep you posted on any other news items as they arise.

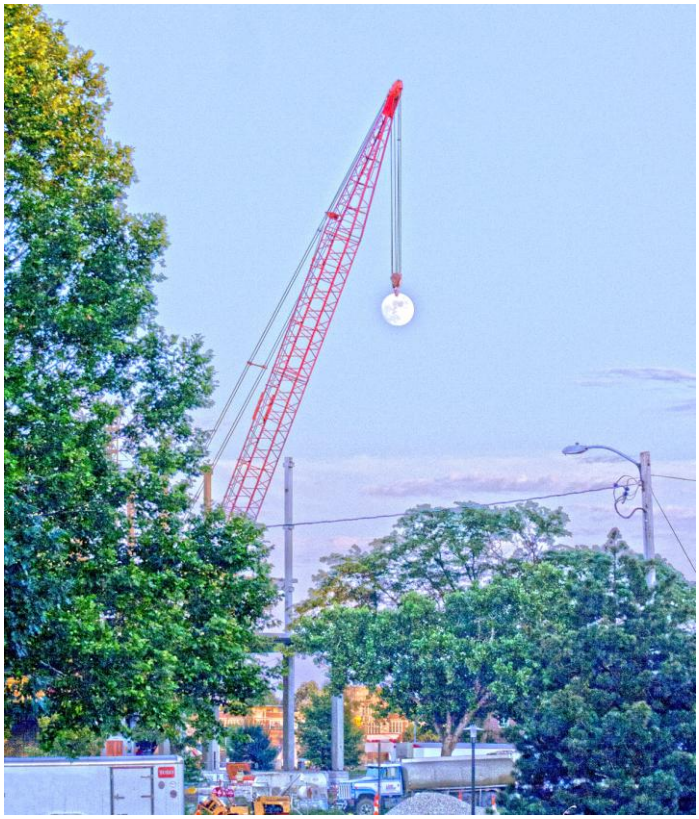
CORRECTION - The report in the last NL on GB3CSB is not correct. GB3CSB is a terrestrial microwave beacon and not for EME.

I5WBE sends news that the results of the ARI's WW EME Marathon 2010 can be found at http://www.eme2008.org/ari-eme/WW%20EME%202010e.pdf. Contest rules for 2011 are at http://www.eme2008.org/ari-eme/contest.html. Prizes and awards will be given as usual at the EME Conference in Marina di Pietrasanta or via mail. Congratulations to the Winners. [The ARI 2011 New Modes (Digital) EME Contest was 16/17 April. Unfortunately this information arrived too late for posting].

CONTEST LOGS - The appropriateness of publishing complete contest logs before the deadline for receipt of the logs has been reached has been question. The concern is that information from the logs could be used to fabricate fraudulent entries. To avoid this concern, I will not publish contest log QSO times in the NL. I feel this omission is a reasonable barrier to potential abuse of the information, while leaving enough information for the reports to be of valuable for others.

SM CW EME CONFERENCE – There was an EME Conference organized by SM4IVE on the weekend of 14/15 May. I do not have a lot of information. I think it was intended to be an SM only event, but there were 3 Gs, a GM, 2 ONs and a PA present. The rest of around 20 people were SMs. The focus was on how to increase CW activity on EME.

Please keep the reports and technical material coming. I will be looking for all of you during the May 70 cm CW ATP, and on 23 cm during the DUBUS Contest weekend in June. 73, Al – K2UYH



Lifting the Moon