

432 AND ABOVE EME NEWS JANUARY-2 2002 VOL 30 #2

EDITOR: AL KATZ, K2UYH; ENGINEERING DEPARTMENT, THE COLLEGE OF NEW JERSEY, PO BOX 7718 EWING, NJ 08628
TEL (W 609-584-8424) OR (H 609-443-3184), FAX (609-631-0177), E-MAIL a.katz@ieee.org
PROD/MAIL: BRIAN MULLANEY, KB2TIS (609-883-6390), E-MAIL mullaney@mccc.edu
NETNEWS EDITOR: G4RGK, DAVID DIBLEY, E-MAIL g4rgk@hdeng.freemove.co.uk
REFLECTOR/MOONNET EDITOR NU7Z, RICK BEATTY E-MAIL nu7z@aol.com
EME NETS: 14.345, 10 AM ET SATURDAY AND SUNDAY (AFTER VARO NET ENDS ON SUNDAY)
NET CONTROL AND SKEDS CORDINATOR: JOE, K1RQG, TEL (207-469-3492), E-MAIL k1rqg@aol.com
EME DIRECTORY: DL4EBY/DK0TU, KLAUS TIEDEMANN, HALSKESTR.35, D-12167 BERLIN, TEL (49-30-7955467),
E-MAIL: klaus@berlin.snafu.de *****E-MAIL LIST CORD/NL DISTRIBUTION: SCOTT, KD4LT cscott@surfsouth.com
EME STANDINGS: Dan Gautschi, HB9CRQ/HB9Q e-mail hb9crq@hb9q.ch or see his WEB page at www.hb9q.ch.
THE NL WEB VERSION IS PRODUCED BY W6/PA0ZN AND AVAILABLE AT <http://www.nitehawk.com/rasmit/em70cm.html>

CONDITIONS: Dec turned out to be another quiet month. There were particularly good conditions on 23 cm but not a great amount of activity despite the successes from GM by GM4ISM and GM00NN that add another country to most operators' DXCC count. Little was reported of note on 432 aside from renewed activity by N4GJV. There are a number of new stations already on or coming on 70 cm. I am afraid the Jan SW may be a repeat of Dec, but at least this month there is clearly only one activity week. This should help turnout. In Feb we will have the SSB Contest on 1296 and during the following 2 month the DUBUS/REF EME Contest. These events should keep things hopping.

NEW FEATURE TO BE ADDED TO THE NEWSLETTER: The 70 cm and Above EME NL is always looking for new and innovative ways to bring you the latest information regarding activities in and around the EME community, and this year is no exception. Much of the information that is available today is being reported on the various reflectors associated with the WEB. So, to capture this information and bring it to the Newsletter I have asked Rick Beatty, NU7Z, to provide us with features and reports from the WEB that can be included in the NL each month. He is very excited to bring to you this new feature. We both hope that his reports beginning in the Feb NL will be informative and newsworthy.

F5SE: Franck kozton@easynet.fr writes -- I finally finished my Web page and it is now included in PA0ZN's EME Web site. The URL is as follows: <http://www.nitehawk.com/F5SE/>. It's only a single page. The background is a picture of the sun eclipse of 11 Aug 1999, as seen from our Cathedral. There is only one software package presently available: the "EMEBudget". The others are not yet finished. I am also working more on the dish project, but have a long way to go. I am definitely planning to go to the Prague Conference with F2TU and am looking forward to meeting many old friends there.

F6ETI: Philippe's cf6eti@wanadoo.fr late Dec 23 cm EME activity report -- I was QRV and QSO'd on 22 Dec IK2MMB (O/O), on 29 Dec IK2MMB (519/519), SM2CEW (519/549), GW3XYW (529/449), OZ6OL (519/549), ZS6AXT (519/559) and G4CCH (549/549), and on 30 Dec F2TU (539/539) - at moon rise (3 deg el), G3LTF (519/529), JA6AHB (O/O) for initial #44 and my 1st JA, G4CCH (52/51) -- this was my 16th QSO with Howard since April and IK2MMB (529/529). I plan to be at the Prague EME Conference.

G4CCH: Howard g4cch@lineone.net report for the late Dec SW -- After some problems caused by the winter WX, I was QRV, but heard no JA activity and Eur activity was very low. Conditions were very good on 29 Dec with some nice SSB QSOs. On 28 Dec we had heavy and gusting winds overnight. The dish was parked pointing up but with counterweight arms strapped to tower. Fortunately everything survived, but others were not so lucky. I contacted on 28 Dec at 1925 OZ6OL (549/559), 2035 HB9BBD (599/589) and (59/58) on SSB, 2200 partial GM00NN (M/-) - 1.8 m dish and 230 W, 2254 N2IQ (569/569), 2325 W2UHI (559/559) and 2335 K5JL (599/589). On 29 Dec we had about 3" of snow overnight. I spent some time removing it from the dish... up the tower shaking things about and with a brush. Eventually all was cleared. On switching on my tracking PC (Old 486), I found a CMOS checksum error, and wasted some time trying to remember how to get into the bios... eventually sorted OK. At 1935 on testing for echoes, but heard nil! Went outside and could see dish was pointing low. So I increased the elevation until echoes were heard and peaked. I then reset the calibration. All that rocking to remove the snow must have messed up the count from the el sensor. I worked on 29 Dec at 1956 HB9BCD (549/559), 2012 GW3XYW (55/55) on SSB, 2130 partial GM00NN (M/-) again - Iain had a preamp failure, 2210 F6ETI (549/549), 2218 IK2MMB (559/569) and 2350 K2UYH (55/56) on SSB, and on 30 Dec at 0013 SM2CEW (569/56) CW/SSB, 0028 ZS6AXT (559/589), 0039 K5JL (599/589) and (58/57) on SSB, 0128

W2UHI (569/579), 0138 K9BCT (559/569), 0158 W7BBM (549/579) and again 0210 W7BBM (52/55) on SSB with 55 W!



JA6AHB's DISH MOUNT DETAILS

GM00NN: Iain jain.gm00nn@tinyworld.co.uk has solved his RX problem and is now making QSOs on 1296, although his system is a bit marginal. Iain worked in Jan G4CCH (M/M) after going to circular pol with 200 W and a 6' dish. He reports he was also copied by OE9ERC (449) and K5JL. Since this report he has made several additional QSOs. He may be back 23 cm on 26/27 Jan and in April for the Eur contest, but will not be QRV on 70 cm for the March Eur contest as he will be visiting Florida in March. [See Iain's new WEB site at <http://mysite.freemove.com/VHFandUP/Index.html>].

GM4ISM: Mark www.dc2light.co.uk is now temporarily QRT on 1296 EME while he makes change to his shack and QTH. Before he closed down he QSO'd K2UYH (O/O) for his initial #14. Mark should be back on again soon.

HB9Q: Dan hb9crq@hb9q.ch wants word passed that he will be active during the Jan SW on 432.020 on 26 Jan from 1400 to 1600, 1800 to 2000 and 2200 to 0000, and on 27 Jan from 0400 to 0530, and on 1296.016 on 26 Jan from 1600 to 1800 and 2000 to 2200, and on 27 Jan from 0200 to 0400. Dan also reports that his online initial-top-list is working well -- So far we already have over 100 entries. Everybody is welcome to visit the list at www.hb9q.ch/database/search.htm. In case you are not listed you can add your information online on the site. It will not show up immediately because I check personally all entries to make sure they are valid. Usually the validation is done at least once a week. Any comments are welcome to dan@hb9q.ch. The more of you enter your standings the better the list gets. Your input is the value of the top-list! Please help to make it the place for initial standings!

IK5WJD: Alex ikcsg@tin.it and Pietro (15PPE) report on their ARRL Contest 10 GHz EME activity. This was their 3rd year of 3 cm operation under the call 15PPE -- The 2001 activity exceeded our expectations. We had 6 QSOs and added 5 initials. This year we were not active on 432. We noted much more activity during ARRL Contest than in past years. We heard at least 20 different stations. 15PPE's current 10 GHz station consists of a 3 m 0.28 f/d dish, HB Chaparral-like corrugated horn feed with switchable V/H pol, 35 W (to feed) from a Siemens TWTA, 0.9 dB NF ATF36077 PHEMT LNA and DB6NT transverter. VK3UM software and infrared CCD TV camera are used for moon tracking. QSO'd during the contest were on 13 Oct 0810 SM4SDN (559/529), 0825 F6KSX (529/529), 1115 F2TU (M/O), 1135 VE4MA (O/O), 1228 W6HD (569/579) and 1345 WA7CJO (579/O).

K1FO: Steve steve@lunarlink.com disagrees with some of my editorial comments on this year's ARRL EME Contents and sends the following -- I'm a bit upset about the comments you made about the selection of the EME contest dates in the Nov NL. In particular the comment "I'm afraid that the folks that choose the contest dates do not understand EME". This was not called for! To set the record straight, the ARRL selects the contest dates based on recommendations from the EME community! So if the dates were not any good, it is ourselves who do not understand EME! In the past the ARRL sent out letters to most of the operators who submitted logs in the prior years contest. The response to these letters dropped to almost zero, so the ARRL quit sending out the letters. This drop in input from the EME community is most likely a direct result of the continual complaining about the contest date selection. It is a rare event when the perfect EME contest dates occur. Most years the dates end up being a thoughtful compromise. I can firmly state that more than one EME operator has directly told me that they will never again be involved in the EME contest date selection due to the bashing that they've received about past date selections. In recent years Lionel, VE7BQH has acted as the collector of recommendations and has submitted the majority opinion to the ARRL. As was noted in the Oct EME NL, the prior weekends (6-7 Oct & 3-4 Nov) were not a good choice because of the conflicts with the Eur tropo contests. In addition, contrary to what was printed in the Nov NL, sky noise was considerably higher on the prior weekends. Although sky noise is not a problem on 1296 and up, on 144 those weekends had about 2.5 dB lower predicted signals. Since there are more active 144 MHz EME stations than on all higher bands combined it is logical that the needs of 144 MHz stations be considered when selecting the dates. In addition, when the dates are selected in the May time frame there is simply no way to predict what solar activity will be on any given weekend in Oct or Nov, so it is ludicrous to complain that the dates that were picked were bad due to high solar activity. I also think that the comments about having the dates nearer to full moon to help visual tracking is a fallacy as cloudy weather (a close to 50% probability) negates visual tracking. Finally, I and many other operators I've spoken with prefer the more humane (mostly daylight) hours that this year's contest had. As the ham population continues to age, fewer and fewer operators will be willing stay up all night for an EME contest. You seem to be a night owl, I used to be somewhat of a night owl myself, but as I get older I just cannot take staying up real late, so the all night EME contest dates don't appeal to me. So to conclude my tirade, anyone who was not involved in the selection of the dates should not complain about them. In the future we should just pick the best dates as soon as possible, live with them and spend our energies thinking about next year's dates. In Dec I had an easy QSO with WA6PY (539/439) with no libration. I am using a TS-2000x and find that there appear to be no gain issues with it on 23 cm, but the separation of TX and RX is a big problem.

K2KLV: Norm Norman.Bernstein@rl.af.mil has access to a 6 m dish and equipment for high power operation (good enough for SSB echoes) on the 9 cm band. He is considering organizing an EME test on this band for sometime in the coming year. Norm asks about interest and preferred EME operating frequencies. I suggest stations interested in 9 cm EME contact Norm.

KA0Y: Ken QSO'd on 1296 during the late Dec SW W1ZX, W7BBM on SSB, N2UO (at K2UYH's QTH) and K2UYH on SSB. He heard VE4MA send (M) to WA1JOF.

KL6M: Mike writes -- On 432 I completed with WA6PY (O/M) for initial #111. I heard Paul earlier during his sked with K9SLQ. I heard K9SLQ tuning up before the sked. He was very loud. Then he disappeared and I did not hear him again. I tried many frequencies and many polarities but he was gone -- I suspect he blew something. I copied WA6PY (O) the whole time. I also ran with LU7DZ but heard nil. I developed an intermittent elevation position indicator problem, but I'm sure I will have it worked out soon, and will be QRV for next SW. I still plan to be QRV on 1296 by DUBUS Contest time.

N7AM: Jack jackriggs@attbi.com reports making good progress with his 23 cm system and updates his status -- The amp is working now at 600 W out. I have almost completed moving the blower motor for cooling the PA outside the shop.

This should greatly reduce noise in the shack. Next I need to get the new software from FIEHN working with the new encoders for AZ and EL, and install Darrell's control box. I'm planning on taking sun noise measurements to calibrate the dish, and then trying to hear some echoes off the Moon. I am learning how to use the XIT on the TS2000x, to hear echoes. The reason I have not been hearing them maybe because I have been listening zero beat and not offset for the Doppler.

ON5RR: Marc mkleyn@vt4.net has everything going on both 23 and 13 cm. At the end of Dec his group was QRV on 13 cm EME and worked OE9XXI (449/559), F2TU (449/539 and OE9XXI (34/52) on SSB - all on 2304. Marc plans to be QRV for the Jan SW. They will probably be on 13 cm Saturday and 23 cm on Sunday.

PA0EHC: Hans J.C.J.vanAlphen@lvnl.nl is a newcomer on EME and sends info on his activities -- I am QRV on 3 cm. My station info is on my WEB pages at <http://home.wxs.nl/~alphe078>. At this moment my activity on EME is a bit low, I am trying to learn CW, which gives me a hard job. Since Sept I made 6 QSOs, but have heard many stations calling me. Due to a poor RX side and my lack of CW experience, I many QSOs have failed which should have been possible. I hope in the next few months to add many initials. I now have a much better pre-amp. I get 1.7 dB moon noise and about 15 dB solar noise. My TX is working fine with about 200 W RF feeding a 6 m dish through waveguide. I have about 150 W at the feed. I still have to steer the dish by hand, which makes me a very busy operator. I hope to get automated tracking operational. I am still not sure which way to go for this. I try to be QRV during the weekends close to perigee, but my station is dependent on WX conditions. I have to put the TWT with HV supply outside. So I cannot be QRV when it is raining. Pse e-mail me for skeds.

VK4AFL: Trevor benton@acenet.net.au asks -- I am considering putting a prop pitch motor into service and wondering if there are usually any problems with hash on 432 or 1296. [I know of none.] The brushes and commutator are in good Condition. The unit will be mounted at the base of the tower about 7 m from the antenna.

W2UHI: Frank was active on 1296 during the late Dec SW and found moon conditions excellent. He worked, between 2340 and 0155 on Saturday, K2UYH, ZS6AXT, IK2MMB, SM2CEW, KA0Y, K5JL, G4CCH and W7BBM, and on Sunday OZ6OL, N2IQ, K5JL, K9BCT and G4CCH. Everything was working well. All signals were very loud. Frank reports a significant change in signal from 400 W to 500 W. Sun noise on 28 Dec at flux 263 was 21.6 dB. This figure seems to correlate with a graph generated that tracks sun noise changes with solar flux numbers. He may put it on his WEB site. Franks also reports that with moon 10 degs off the sun, he still getting (S5) echoes. He is now pretty satisfied with his TS-2000.

W2WD: Warren wbutler@comcast.net writes -- The dish is now stored for the winter and I will not be available for skeds. Before I shut down I was troubled by heavy radar and spread spectrum RFI. There were many days when I was completely wiped out with QRM/N. The noise was so potent that I would not have been able to copy local signals let alone EME. Several skeds were wiped out. Typically, now that the antenna is down, the noise has subsided dramatically. I finally found a source for the MGF4919G's reported by Jan, DL9KR, as being very good at 432. They came from RF Parts at www.rfparts.com. I will be building a new preamp for the 4919 sometime soon. Please note that my e-mail address has been changed.

W4SC: Ben W4sc@aol.com wants to set the record straight -- I am in SC (EM93). I have been reported as being located in NC, and GA. [Sorry -- AI]. I guess that's ok, because some days I don't know where I am located - hi! I did operate with Dale, W4OP, in NC on 1296 the last weekend of the ARRL EME Contest. I provided the PA. It was fun. I hope to be on 1296 EME soon. Time to work on the dish mount is scarce.

WA4YGG: Steve wa4ygg@dnet.net reports -- I now have the main components for 1296 EME. I have a 2 x 7289 PA with many extra tubes and water jackets, but have to figure out how to hook it up. Any help/recommendations will be appreciated. My postal address is (Steve Horton, 286 Baird Cove Rd. Franklin, NC 28734).

WA5TKU: Wes wes.atchison@marconi.com writes about TS-520 Transverter Interface -- I noticed in the Dec NL that someone was looking for the transverter connector for a TS-520. I recently received a phone call from a different individual asking the same question. I know of know source for the connector. It is an odd connector. The transverter connector on the TS-520 was used to interface the Kenwood TV-506 or TV-502, 6 or 2 m transverters. In fact the 28 MHz output of the TS-520 to the Kenwood transverters was done on a separate

cable. Only the receive and control signals are available at the transverter connector. To interface a non-Kenwood transverter to the TS-520, it is not necessary to use that connector. The TS520 has RCA phono connectors for transverter input and outputs. To interface a non-Kenwood transverter (i.e. a Microwave Modules 432-28) 2 coax cables and a 2-wire cable to the accessory connector (an Octal socket) is all that is needed. The 2 coax cables connect between the RX and TX phono connectors and the respective transverter connections. The accessory connector on the TS-520 has ground and a relay contact to ground for keying an amplifier on 2 pins. Connect these 2 pins to the key line and ground of the transverter to complete the hookup. For EME operation these wires should be used to start the sequencer circuit, which will key and un-key the transverter and other equipment in the proper order to prevent blowing up preamps. The TS-520 has a screen ON/OFF switch, on the back right side when looking from the front, to disable the screen voltage to the finals. Turning the screen supply off will disable the finals so no RF power is at the SO-239 connector. The screen supply switching is done automatically when the Kenwood transverters are turned on, but it must be turned off manually when used as described above. The filament switch on the front panel must be ON for use with the Kenwood transverters or as described above. The drive for the transverter TX is derived from the 12BY7 driver tube. Its filaments are tied to the filament switch like the 6146 finals filaments. One could modify the radio to change this, but the approach above requires no modification to the radio. Microwave Modules transverters required a higher drive level than the stock TS-520 delivered. By changing a ceramic capacitor value, the drive level can be easily increased. I can email anyone the mode information that wants it. This is the only internal modification I recommend for transverter interfacing. If one chooses to use the transverter connector on the TS-520, they should be aware that not only is the screen voltage but a bias voltage is on one of the pins as well. I do not recommend using connector to interface a non-Kenwood transverter. It very simple and cheap to interface the transverter as described above. Save your money and the time spent searching for the connector and use them on the rest of the system.

WA6PY: Paul pch@us.ibm.com is now on 432 EME using his 2.4 m dish with a full size dual dipole - dual polarization feed. In early Dec he QSO'd on 432 DL9KR and K1FO, and picked up SM2CEW, DJ5NV and KL6M in early Jan to bring him to initial #5. Paul is planning to be QRV again during the Jan SW.



WA6PY's 2.4 M DISH WITH 432 FEED

WA8ULG: Ted awombat@starband.net sends echoes from distant past -- I'm still WA8ULG but now living in AZ. People may remember me from 70's EME and the CSVHFS. I have recently moved to a great high desert location and have a 12' dish that was designed for us to 18 GHz. Here's is the question, when I was in MI and sited my 44' ELPAR, I recall having a site reduction table that showed the boundary excursions for the moon at any location. I have a mountain that I am trying to co-locate with the shadow of a big 30 x 40 storage building for best overall moon horizon. Does anyone one know where I can locate the necessary data? I am considering EME operation on 10 or 24 GHz and am looking for ideas. I have a great lab at the new house. I sold my company last year, but kept most of the R&D equipment and have more time than before.

YO2IS: Szigy yo2is@yo2kjo.ampr.org writes -- I remember with pleasure how Jan, DL9KR, "converted" me from the classic UHF to 70 cm EME! It started in the late '80s, always on 14345 KHz, till my 1st random QSO, on 7 Sept 1990 with SM4IVE. My EME teacher got to be my 7th initial, hi. Not too much to report from this end. Lately I got QSLs from VK3UM, UA3PTW, EA8FF and DL7APV. All are initials. I really appreciate the cards and nice pictures. My

score is up to 125 confirmed out #155 initials. Despite several tries, I have no idea how to get 9M2BV confirmed. I am still open for 70 cm EME skeds, and will do my best to be on.

ZL2MQ: David dave.crook@xtra.co.nz is working on a 70 cm EME station and would appreciate some pointers -- I have a FT847 and a partially modified Yaesu FL2000B amplifier, a couple of 4CX250 sockets, a blower and a handful of 4CX250B valves. My questions are as follows: Can anyone point me an article on dual 4XC250B amplifiers? [Contact LX1DB willi.bauer@airport.etat.lu]. Has anyone attempted to produce grid bias by using zener/transistor circuit in the cathode circuit? The FL2000B has only about -20 V. What sort of power output can I expect from this setup, and what antenna size should I be aiming at?

ZS6AXT: Ivo zs6axt@global.co.za is back on EME after his operation -- I was on 23 cm for the last SW. Equipment worked perfectly, to my surprise, hi. On Saturday no JA stations were heard. I 1st worked SM2CEW and GW3XYW, then later IK2MMB, F6ETI, OZ6OL, G3LTF, W2UHI, K5JL, G4CCH and KA0Y. I switched off at around 0100. CWNWR was HB9BCD and heard a few others. Sunday night we had series of violent storms. I did not take a chance of damaging the dish and did not operate. None of the new stations heard on Saturday had available e-mail addresses. Since I am still far from recovery, I will be able to work only 23 and 13 cm for the next month or two. I hope to be by then able to put some finishing touches to 6 cm and be operational there too. My left hand by now has nearly full strength, but is not fully controllable, my voice is also much down.

K2UYH: I tried to arrange skeds via e-mail for the holiday period on both 70 and 23 cm, but the only one that resulted was on 1296. I QSO'd on 26 Dec at 2200 GM4ISM (449/O) for initial #198 and DXCC 40. Mark did not hear me at 1st, but once he found my frequency we had a FB QSO. I was also active for the SW on 1296 and QSO'd on 29 Dec at 0112 W1ZX (55/55) on SSB, 0123 W7BBM (55/55) on SSB -- John said he was running only 65 W, and 0205 KA0Y (57/55) on SSB, and the next day at 2340 W2UHI (559/559), 2355 G4CCH (56/55) on SSB, (30 Dec) 0022 SM2CEW (569/56) -- one way SSB, 0030 OZ6OL (55/55) on SSB and 0054 K5JL (58/57) on SSB. Marc, N2UO was also in the shack and made a couple of QSOs under his call with KA0Y and OZ6OL, and possibly others. Signals were excellent, but activity dropped sharply toward the end of the Eur window on both nights. I also heard ZS6AXT and IK2MMB. I had hoped to get on the following weekend, but business travel made it impossible. Marc has completed his dish and mount for 1296 and only needs to complete the tracking system before he can be QRV from his home. However, I do not expect him to be active before the spring. He has started taking graduate courses, which may slow his progress.

NETNEWS BY G4RGK: **W7SZ** worked W7LHL 5 W to 15 W on 3 cm with 10' dish to 10' Dish in Dec, but is now QRT until WX improves. **W4OP** is making great progress on his 1296 PA. He now has 300 W out. **W7CI** will be on for the next SW. He has just retired and is happy to take schedules. **KOYW** received a nice certificate from DUBUS. He is making more mods to his TH-327 amp. Bruce has made a new anode bypass using .010" Ultem. It seems to work much better now at 2400 V. He worked in early Jan WA1JOF. **VE1ALQ** is getting back to normal. Darrell was on moon in Dec and reports all systems are still functional. **VE6NA** is still SWL only on 23 cm. He has not repaired his PA yet. **W5LUA** on 24 GHz worked VE4MA again and was heard by AA6IW and RW3BP. 24 GHz moon noise was at an all time high of 1.9 dB. **VE4MA** has new PA on 24 GHz with 100 W+ out! **DK3WG** cannot get to his VHF/UHF shack at this time due to heavy snow and requests no skeds until Feb. **CTIDMK** is still researching triodes for 23 cm, and is building a solid-state 23 cm 100 mw to 150 W driver amp. **K5WYN** is QRV on 432 and worked F6KHM in early Jan. **DL9KR** worked WA6PY for initial #768 in Dec with an excellent signal. Jan asks who is TA4SAT? (The TA4 is reported to have been worked by SM2CEW and DJ5NV. Were these QSOs on 70 cm EME? Could be IK4SAT?) **ZL1KA** may be active on 70 cm. **WB0GGM** had no luck with K9SLQ on 432, but did work N4GJV, RA3LE and UA3PTW. He later heard K1FO and worked DJ5NV. **VE6TA** is still on 70 cm and worked N4GJV, RA3LE, RA6LE and F6KHM for new ones. Grant is now up to initial #89. Nil was heard from W7MEM in sked. **HB9BBB** worked F6ETI on 1296 in Jan. Dom comments for those using a TS-2000 that the German distributor does not want release the latest firmware. He has built an xvtr into the TS-2000 and needs firmware. **RA3LE** worked on 70 cm in Dec VE6TA and WB0GGM. Both were new initials. **RW1AW**, **UA4API** and **UA9FAD** have not been active on 432 recently. **K5JL** heard G00NN (O) during their Dec but did not complete. His sun noise was 26.2 dB 28 Dec. **WA1JOF** is testing his RX system with the TS-2000 using a different IF amp. It seems that the MMIC may have been causing some of the receive problems he has experienced. **LX1DB** is QRV on 70 cm thru 10 GHz and plans to be quite active on EME for next 2 months. **K4EME** on 432 worked N4GJV in Dec. **F6KHM** is getting a new 10 m dish. He is presently QRV only on 70 cm, but is working on a 23 cm system and hopes to

be QRV in a month. **PA3CSG** has a little damage to the 3.7 m dish from the recent storms. Geert has 20 W on 6 cm and will let us know when he is QRV. **W6WE** is making progress on his dish project. **K6IBY** is still not QRV on 70 cm. **I6ZAU's** call is now I4ZAU. **WA8RJF** is on 1296 from NE Ohio. Tony has a 3.6 m dish and 2 x 7289 PA. **KA0RYT** is QRV on 70 cm. **WD5AGO** is working on a 13 cm LNA. **G4RGK** is QRV again on 70 cm. The broken AZ drive motor and gearbox have now been replaced.

FOR SALE: W1ZX has available just for the effort of pickup (i.e. for FREE!) Celewave Flexwell FLC 12-50J. Willie does want a \$100 deposit that will be refunded after pickup. He also has for sale a DJ9BV design Noise Figure Meter, build with Cabinet, (the kit cost \$US450) with switch+shipping (S), AIL-7514 Noise Figure Meter for \$US400+S, HP -8970A working \$US2050+S, MFJ-784 Super DSP filter \$US89+S, JPS NRF-7 Noise Remover & Audio Filter \$US40+S, HP415E SWR Meter-brown color unit (a later model unit, not gray in color) \$US59+S, Noise Com noise diodes NC305, glass package \$US30+S, AIL Hot-Cold Load Generator, Type 70, (needs some work) \$US20+S. Call Willie at 301-645-5584 between 1000-2300 EST, FAX 301-645-6853, 24 hrs, or e-mail to w1zx@drix.net. **CTIDMK** is looking for a GS-23 tube at a reasonable price. **WA2WIM** is still looking for 6"x6" piece of Ultem. **W6WE** asks about a 150 W solid-state module for 23 cm made in Eur. [SSB Electronics is marketing 20 W to 160 W modules for 23 cm, also 10 GHz modules at 33 W, 13 cm at 130 W, 6 cm at 90 W and 9 cm at 40 W according to VE6TA.] **KG6FCB** is looking for a 1296 hi power amp (GS35B cavity, etc.) - see nd2x@nd2x.net/rw1aw. **DJ5MN** is looking for X-band flexible waveguide - both long (to 25 m) and short pieces.

Technical: HB9BBD refers you to his WEB page at <http://hb9bbd.ch> for measurement information on his new 1296 preamplifier (2 stage WA6PY design with 0.18 dB NF) and pictures of the same. Also see WA5TKU's report in this NL about a TS-520 Transverter Interface.

FINAL: I am again running late with the distribution of this NL. This is a consequence of the multiple sked weekends and travel. I am going to make every effort to get the NL make on schedule for Feb. I don't want anyone to missed the SSB contest as a result of late notice in the NL.

♦ The Southeastern VHF Society has announced their 6th Annual Conference for 26/27 April at the Garden Plaza Hotel in Oak Ridge, TN. See their WEB page at www.svhfs.org for complete information. Unfortunately this excellent conference conflicts this year with another excellent conference that should also be of high interest to EMEers. The SETI Leagues conference is the same weekend at The College of New Jersey - see <http://www.setileague.org/seticon/meet2002.htm> for details.

♦ Speaking about conferences, have you put in your reservations in for Prague 2002? This is going to be an especially good one that you don't want to miss. Program details can be found at the end of this NL.

♦ With the lighter activity and consequently few reports, I have been able to fill in with some of the technical material I have had in reserve. The only problem is that this depletes the reserves. More technical material is need! We also need more activity and related activity reports. Hopefully the new features by NU7Z and HB9Q will enhance the NL and increase readership. 73, AI - K2UYH

JAN SKEDS

26 JAN
Time 432.040
0130z KL6M -SP6JLW
0200z KL6M -OE3JPC
0230z KL6M -PA3DZL
0300z KL6M -G3HUL
0330z KL6M -G4ALH
0400z KL6M -LU7DZ
0430z KL6M -W2WD
0500z KL6M -K7XQ
0730z KL6M -JS3ISM
0800z KL6M -JR1RCH
0830z KL6M -JH7PAV
0900z KL6M -JH1XUJ
0930z KL6M -JA2KRW
1430z KL6M -UA6LGH
1500z KL6M -RW3PF
1530z KL6M -RZ3BA
1600z RA3LE -JA2KRW
1630z RA3LE -JR9NWC

1700z RA3LE -JJ1NNJ
1730z RA3LE -JA6DZI
2000z I5CTE -RA3LE
2030z IK0EQJ -RA3LE
2100z IK5WJD -RA3LE
2130z IK6ETW -RA3LE
2200z G3HUL -RA3LE
2230z PA4FP -RA3LE
2300z K9SLQ -RA3LE
2330z K4EME -RA3LE

27 JAN
Time 432.040
0000z LU7DZ -RA3LE
0100z K9SLQ -WB0GGM
0230z KL6M -I5CTE
0300z KL6M -IK0EQJ
0330z KL6M -IK5WJD
0400z KL6M -IK6ETW
1300z KL6M -UA4NM

26 JAN
Time 1296.050 1296.080
2000z OE5JFL -GMOONN
2030z LX1DB -GMOONN
2100z HB9BBD -GMOONN
2130z OE9XXI -GMOONN
2230z W2UHI -GMOONN
2300z WALJOF -G3LQR K5JL -GMOONN
2330z WALJOF -DL4MUP

27 JAN
Time 1296.050 1296.080
0000z WALJOF -LX1DB
0100z W1ZX -LX1DB
2100z OE9ERC -GMOONN
2130z DJ5MN -GMOONN
2300z N2IQ -GMOONN
2330z K0YW -GMOONN

10th INTERNATIONAL EME CONFERENCE 2002 PRAGUE PROGRAM

Friday 16th Aug: The participants can arrive from 1200 to the conference place (Hotel Krystal), where the registration and accommodation will take part. At 1800 there is a brief welcome drink followed by dinner. The participants of the "Preamplifier contest" are requested to officially register and hand over their products. At 1900 a bus will be waiting to carry the group to the Planetarium in Prague for a special show about Moon followed by a "Prague by night" sightseeing. At about 2200 the bus will return to the hotel and there will be a place for talks at the bar.

Saturday 17th August: The main conference day is split into two parts, one for regular participants and other for the accompanying persons. After breakfast 07-0800 the conference starts already at 8:00 with lectures and continues (coffee break included) until lunch at 1200. From 1300 the conference continues with lectures and discussions to the topics till 1800. Parallel to the conference the accompanying persons will have a special program outside of Prague (lunch included). The participants and accompanying persons will join in the hotel at 1900 and a special bus ferry will take them to a small Chateau in Troja (part of Prague), where a special Gala dinner is prepared. A part of this event is a ceremony, where the Johannes Kepler awards will be presented by the His Majesty Emperor Rudolph 2nd, followed by official announcement of the "Preamplifier Contest". The Event is planned to end at about 0200. The transfer back to the hotel is secured.

Sunday 18th August: Analogous to Saturday the program is split. After breakfast at 0900 the regular participants will be transferred to the Technical Museum in Prague for a special program, while the accompanying persons will drive downtown Prague. The groups will join at lunch in hotel at 1300. From 1400 there will be a final discussion and vote for the organizing country of the EME Conference in 2004. This concludes the official conference program. Besides it, there are a number of parallel events. For updated details please see the conference WEB-page at www.emefconference2002.cz. There is a possibility to arrange individual accommodation and program before and after the conference for the participants using the special conference discount. For any information please contact the conference staff at the contact published on the WEB-page.

