



Bulletin



December 2022

Founded In 1958

Our Next Meeting & Speaker

Date & Time: See you in January, 2023

Location: Via Zoom

Topic: *Merry Christmas*

Presenter TBD



The December SEDXC Meeting was canceled. Enjoy the holidays and stay tuned for our meeting topics in 2023!

From the Prez *(de Chuck Catledge, AE4CW)*



I (Clark, WU4B) have received the following from Chuck (AE4CW).

I have been in the hospital for the last few weeks fighting a severe infection that has turned out to be pneumonia. With continuous IV antibiotics, I was finally able to return home, but I am still very weak. My two daughters and a dear friend have been providing care 24/7 during the roughest parts.

I am hoping that the situation will be resolved in about two weeks. Recurrence in the future months is possible.

Please join me in keeping Chuck and his family in your thoughts and prayers during this holiday season.

73 es gud DX,

Clark, WU4B

Goal Setting



2022 is almost “in the can” (as they say in broadcasting and film production). As other demands on my time seem to slack off a bit at this time of the year, I like to start giving some thought to ham radio goals for the new year.

A Glance Back...

I've operated more in 2022 than in any year I can recall, and that is because I set goals to do so. An article by N4GG a few years back about the value of state QSO parties got me interested in furthering my operating expertise. As a CW Op, I'm always looking for ways to get concentrated on-the-air experience. Here's a brief summary of the contests I participated in (2-hour minimum):

- ARRL: DX CW, 10m
- CQ Magazine: WPX, CW DX, DX Marathon
- State QSO Parties: 33
- CWOps: CWT (42); CWOpen
- IARU

I don't compete to win awards nor to fill up the log, but to become a better operator. My current comfort level with CW is about 27 wpm: a far cry from where I started this year. For the CQ Marathon, I have worked 190 CW Ops and 145 FT8 Ops. There were many entities I never heard in CW, but FT8 pulled them through. Cool!

In DXing, I started paying more attention to gray-line times in the Spring and Fall, and was rewarded with my first long path contacts to Asia with my HexBeam and 100 watts. What a thrill! While no new ATNO's were snagged, I did manage to cross the DX Challenge 1,500 mark.

A Look Forward...

I don't see any change to my station for next year. The K3/P3 combination is meeting all my needs for QRO, and I have several rigs for QRP. With the improved operating conditions for 2023, I will set goals for more QRP operating in the new year. I would like to get my 40m wire back up the trees.

My DXing activities will be to work towards the 320 sticker: I'm currently at 318. Bouvet? Crozet? I will definitely put forth my best effort to work them both, but as a

Little Pistol, I know the pileups will be tough. Not sure DX Challenge the 2,000 mark is possible in my remaining lifetime.

Concluding Thoughts

Lou Holtz once said: "If you're bored with life - you don't get up every morning with a burning desire to do things - you don't have enough goals."

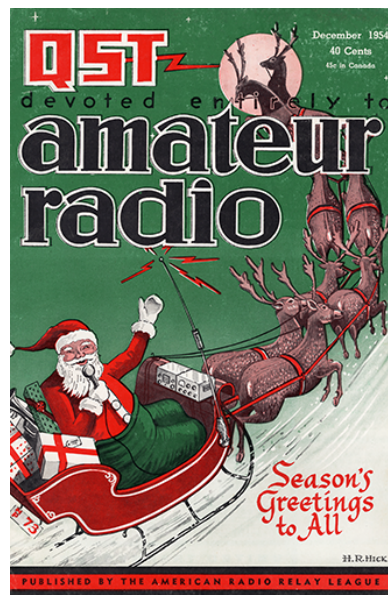
2022 has been one of my most active and productive in recent timeframe because I set goals at the beginning of the year. It would be easy – with my current DXCC and WAS scores – to lose interest in the hobby. But setting goals has helped me achieve both a higher level of CW expertise and a few awards (like 5BWAS).

Finally, I would be remiss in these reflections if I didn't comment about the battle with illness of our dear friend and colleague Chuck AE4CW (see *From the Prez* comments). As important and as thrilling as pursuing awards are, ham radio is still a fraternity of people. Many of us are at that age when serious illness can happen without warning. We must not take our friendships for granted. At this time of the year when remember our of friends and family, why not reach out to one ham friend and tell them how much you appreciate them? You may not have that chance in 2023.

Merry Christmas and Happy Holidays to you and yours this year!

73 es gud DX,

Clark, WU4B



DX Marathon Final Thoughts *(de Andy Goss, AA5JF)*



We are in the final push for maximizing our club's 2022 DX Marathon score. There is, undoubtedly, still new DX to be worked in the final few days of 2022, so don't stop chasing until January 1st! You may wish to check your interim results, and see if you are in need of some not-so-rare European countries – now is the time to get those final points.

At this point, it is time to start thinking about submitting your DX Marathon results. We will be competing in the club category, and I am hoping all SEDXC members who worked DX this year will submit an entry. Every point will count towards the club's aggregate score. Remember that no QSL or LoTW confirmation is required. List our club as **Southeastern DX Club**, do not use "SEDXC" or any other abbreviation.

Scores for 2022 are due by January 5, 2023 (2359Z). Your results must be recorded on the official submission form, and can be uploaded to the contest website. All the information you need is at www.dxmarathon.com. Or look at the email I posted to the club listserv on December 5, 2022.

We will also have club prizes for the best scores in 9 categories. In order to qualify for those, you must submit to the official DX Marathon contest, and send me the submission form as an email attachment. amgoss05@yahoo.com

As you are preparing your submission, please call on me as a resource. amgoss05@yahoo.com or call or text me on my cell at 504-289-0006.

73,

Andy, AA5JF

Treasurer's Journal *(de Jeff Cantor, K1ZN)*



Greetings, Fellow DXers! Disbursements to report for last month:

Purpose	Amount
Postage	5.50
TOTAL:	\$5.50

Our Account Balance is \$13,270.03, as of December 17th.

We are currently reviewing our Club criteria for DXpedition donations. If you are interested in providing some input and becoming a part of our small committee, please contact me at jacantor9@gmail.com.

TNX, 73 & GUD DX, Happy Holidays & HNY,

Jeff, K1ZN

Around the Shack *(de Hal Kennedy, N4GG)*

KIWI SDR



I'm currently QRT at my new QTH, but able to listen to HF via the Internet. There is a great Internet-based resource for listening – It's the KIWI SDR Network.

A KIWI SDR is a remotely tunable receiver. There are currently 660 of them on-line, located around the world. Many are in North America and Europe, but there are some in Africa, Asia, South America and Oceania as well. You can connect to any of them – they are open to the public. Connecting requires nothing more than a web browser.

The list of KIWI SDR receivers together with their clickable connection links can be found here:

<http://kiwisdr.com/public/>

That URL returns the list shown in Figure 1. I never use the list. In the upper corner of Figure 1 is a blue circle labeled KIWISDR Map. I start there. That blue circle returns the world map shown in Figure 2.

The map can be expanded for a good look at where individual receivers are, together with a color indicating the status of each receiver. With rare exception, individual KIWI SDRs can provide eight connections at once. The colors indicate, among other things, if a receiver has an available user slot or if all eight slots are taken. There is a link to a legend explaining the colors in the lower left corner of the map. You don't need the legend to get started. SDRs that show up as yellow are full. Try any that aren't yellow.

Figure 3 shows the map expanded to show Europe. Figure 4 shows the map expanded to show Taiwan and China – more on that later.

Figure 5 shows the receiver control panel you will see when you connect. I won't explain all the controls here – experiment! You can set the receiver to any HF frequency

from zero to 30 MHz by typing the frequency in, or by dragging the waterfall display to a frequency of choice.

There are buttons to select mode and a row of small + and – buttons to move the frequency up and down in increments. Your left and right keyboard keys will also move the receiver’s frequency in small increments. The keyboard up and down keys change the receiver’s bandwidth. The large + and – buttons expand the waterfall. I usually hit the large + button many times to get a good look at the spectrum close-in to the frequency I’m interested in.

In the upper right corner of the control panel, you will see a pull-down menu called “Extensions.” Save exploring the extensions until you have mastered simply listening. When you are ready, the extensions menu can launch decoders for RTTY, CW, FAX, WSPR, SSTV and many others.

Here’s an example. If you click on FAX the weather FAX control panel appears in the lower left corner of the screen. If you select a region and station there, weather FAX images will appear, *if the station you selected is transmitting and the receiver you are using can hear it.* See Figure 6. Weather FAX is not broadcast continuously on HF. FAX transmit schedules can be found on the internet.

Some Experiences

- I’ve spent a few hours connected to receivers in Japan listening to AM broadcast. Mostly I hear people speaking Japanese (seems reasonable), but there is English language content too. Also, there is a lot of music. In the US most music migrated from AM to FM decades ago - not so in Japan. Some of the music I hear is Asian, but some is “Western.” There is lots of rock ‘n’ roll. It’s intriguing to hear what people in distant lands listen to.
- I’ve checked propagation using WWV. Trying receivers around the world, I’ve been able to hear WWV on at least one frequency on nearly all of them. I was also able (finally!) to hear WWVH in Hawaii, by listening to a KIWI SDR receiver on Hawaii. On that receiver I also heard more details about the eruption of Mauna Loa than were available from mainland news outlets.
- I’ve listened to WWVB on 60 KHz – the station that sets “Atomic Clocks” several times a day (atomic clocks are not atomic). Try as I might, I have never heard that signal on the US East Coast. That is long-haul DX on VLF. Somehow atomic clocks hear and decode WWVB. I suspect they do it with a combination of synchronous timing and exceptionally narrow filters. Tip: Aside from being useful for understanding VLF propagation, WWVB is not very interesting!
- I’ve listened to an old favorite - Radio Caroline. Pirate radio was big in the 1960s and Caroline led the pack with a 50 KW ship-board rig just outside the territorial

limits of the UK. There are several books available from Amazon, both paperback and Kindle, describing the decades-long efforts of the UK government to shut Caroline down. They never succeeded. It's fascinating reading. Caroline is still on the air and you can listen to it live via streaming on the internet. Also, if you own one of Amazon's echo dots, aka Alexa, you can say "Alexa, play Radio Caroline" and it will! Meanwhile, that's not as satisfying as actually hearing the station on the air. Today, Radio Caroline broadcasts on 648 KHz, on what's called "medium wave" in Europe. The station only runs 4 KW these days, from a ship docked in the south of England. It can be received on several KIWI SDR receivers near the southeast coast of England. It can also be heard in parts of mainland Europe at night. Experiment and see how you do DXing Radio Caroline. As sweet irony, Caroline's current antenna is a retired BBC tower.

- I've listened to US contest stations on many different receivers in Europe and Asia. This was particularly interesting during ARRL Sweepstakes when US stations were not trying to work DX. I also listened to the 160 contest this past weekend. I didn't hear much of the US on European receivers – low band conditions were terrible. East coast stations were loud on US West Coast receivers.
- I've tried some US broadcast band DXing from afar. I have heard the three big 50 KW stations in NYC – WFAN (660 KHz, formerly WNBC), WABC (770 KHz) and WCBS (880 KHz) on receivers on every continent. Those transmitters are in the "meadowlands" in Rutherford, NJ and are non-directional "clear channel." They really get out. I grew up in the NYC area and visited those transmitters in the 1960s. I can attest the antennas are in a meadow – one that's often an inch or two under water.
- I've listened to myself (not recently) at various times and on various bands from many DX locations. This can be sobering. I was never able to hear myself in parts of Asia, including during times of good propagation.

Some Notes

- Should you wish to use a remote receiver to cheat while DXing or contesting, be advised there is a three second delay in the audio from KIWI SDRs. It is nearly impossible to break a DX pileup listening with a three second delay – You can't get the timing right.
- At the top of the screen for each receiver is the name and location of the receiver as well as the station's altitude and antenna. Some SDRs have poor antennas. Many of those are small loops, magnetic and otherwise. The KIWI

network is helpful for understanding what antenna types receive well. I quickly leave one receiver for another if I don't hear much or see the antenna is likely inferior. *There are* receivers with first-rate antennas - those are the fun ones to tune.

- Looking at the identifying name on each receiver, you will find many are owned and operated by hams. The ham-owned receivers tend to be the better ones.

Going Geopolitical

Closely scrutinizing the map of available receivers I've realized some are in geopolitical hotspots. For example, there are seven receivers on Taiwan, and only one in all of mainland China (excluding two in Hong Kong). Would China allow me to connect to the only Chinese KIWI SDR receiver and listen to Taiwan? *If I could* than anyone in China could. I had suspicions.

It didn't take long to find out. While nearly all KIWI receivers will connect to eight users at a time, the only receiver in China supports only four simultaneous users and those slots are usually taken. When I have connected, it was apparent the receiver was too far from Taiwan to receive Taiwanese AM broadcast (430 miles). That receiver is in central China and too far from anywhere to hear anything other than what the Chinese government would like you to hear.

Given the censorship prevalent in China, I suspect the lone Chinese receiver may be the only receiver Chinese citizens can connect to. I'll speculate the IP address of those who connect is monitored.

I wonder what other remote receives might be partially or fully blocked? There are several on the Ukraine/Russia border – I'll be trying those next.

Summary

Give the KIWI receivers a try. Finding them is easy. Operating them is easy. They will give you a look at the HF spectrum that you can't get from home, no matter where home is.

If you are technically-minded and so inclined, you can set up your own KIWI SDR and place it on the network for all to enjoy.

73,

Hal, N4GG

KiwiSDR Map Search: Band: all Open in new tab:

Wednesday, 09-Nov-2022 02:11:18 GMT 643 receivers online 378 TDoA capable 745 people listening || 63 proxied 243 ddns 197 domain 140 it







- 
0-30 MHZ SDR, WELLBROOK ALA1530LN LOOP, SWL/JO02JH, UNITED KINGDOM | IXWORTH, SUFFOLK, UK
<http://ixworthsdr.hopto.org:8073>
 KiwiSDR v1.567 GPS LIMITS DRM (0 / 4 users) HF
- 
0-30 MHZ SDR, LA2G, NORWAY
<http://la2g.ddns.net:8072>
 KiwiSDR v1.567 GPS LIMITS DRM (0 / 8 users) HF
- 
0.3-30 MHZ 4-CHANNEL SDR, W7PUA | ADAIR VILLAGE, OREGON, USA
<http://w7pua-2.ddns.net:8073>
 KiwiSDR v1.567 GPS LIMITS DRM (4 / 8 users) HF
- 
0-30 MHZ SDR CLUBSTATION DLOHC | HATTINGEN NRW, GERMANY
<https://fgt.770net.de:8073>
 KiwiSDR v1.567 LIMITS DRM (1 / 8 users) HF
- 
0-30 MHZ VK2GGC SDR RX 1 - HUNTER VALLEY NSW AUSTRALIA
<http://vk2ggc.ddns.net:8073>
 KiwiSDR v1.567 GPS LIMITS DRM (0 / 2 users) HF
- 
0-30 MHZ SDR, DLGNEP | NORTHERN BAVARIA, GERMANY
<http://dlgncp.hopto.org:8073>

Figure 1. The KIWI Network opening screen listing all the receivers.

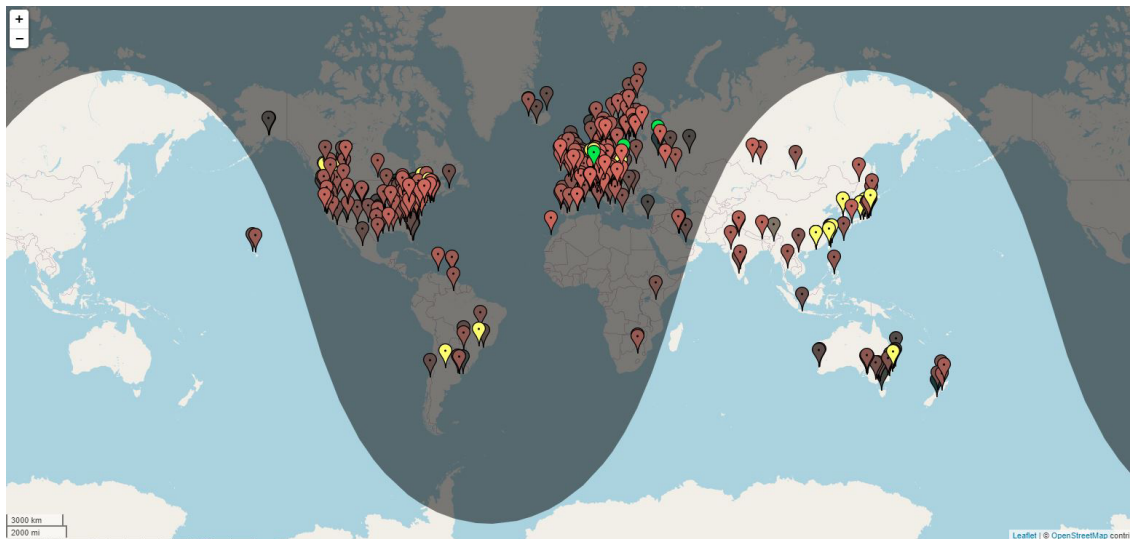


Figure 2. The map showing receiver locations and status.

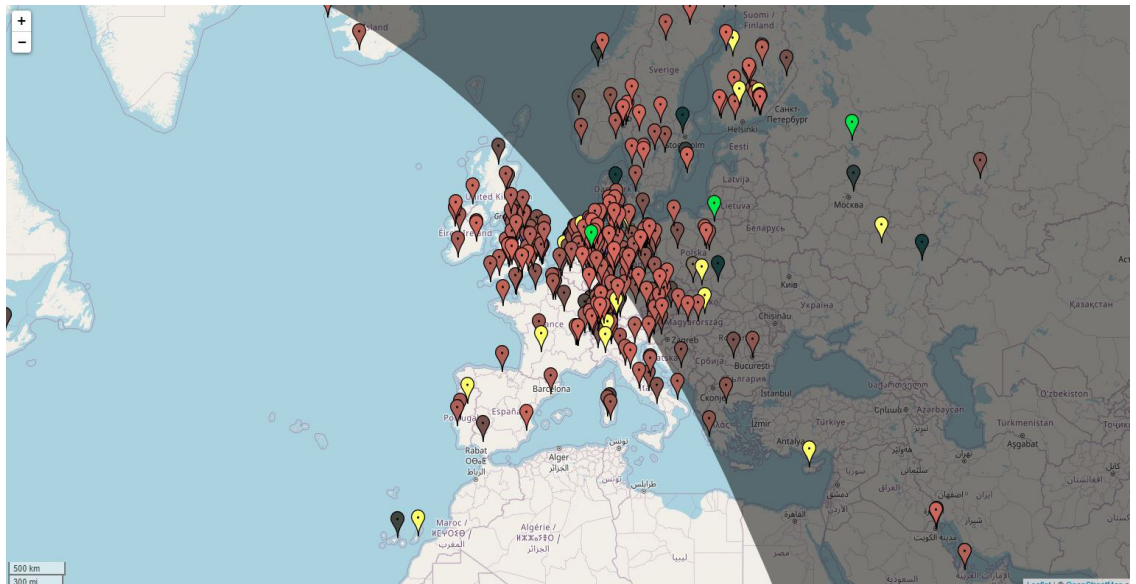


Figure 3. The map expanded to show Europe.

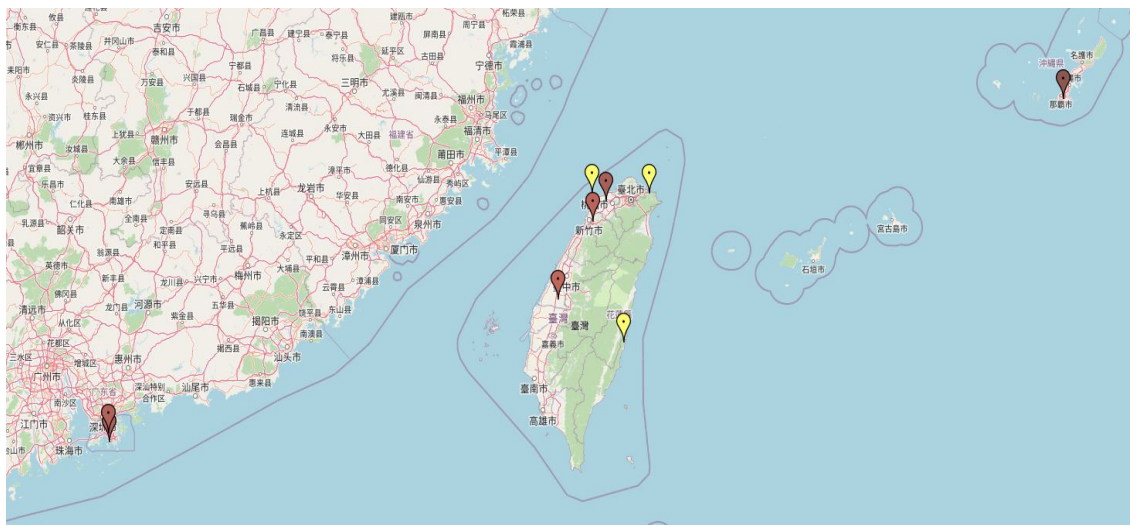


Figure 4. The map expanded to show Taiwan and China.

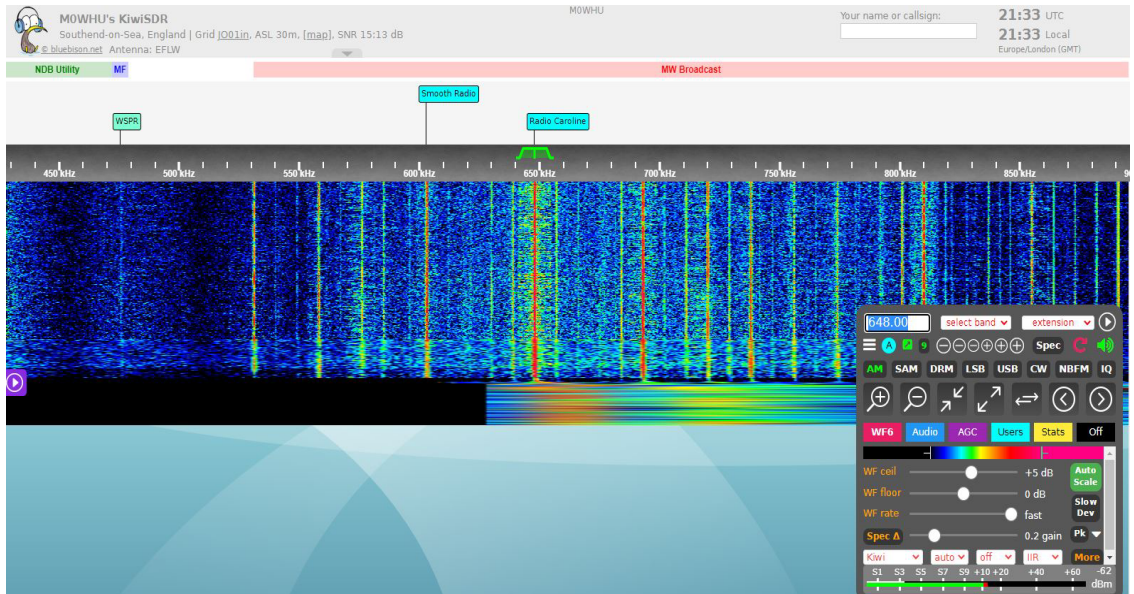


Figure 5. The receiver control panel, tuned to Radio Caroline on 648 KHz. All KIWI receivers have the same controls.

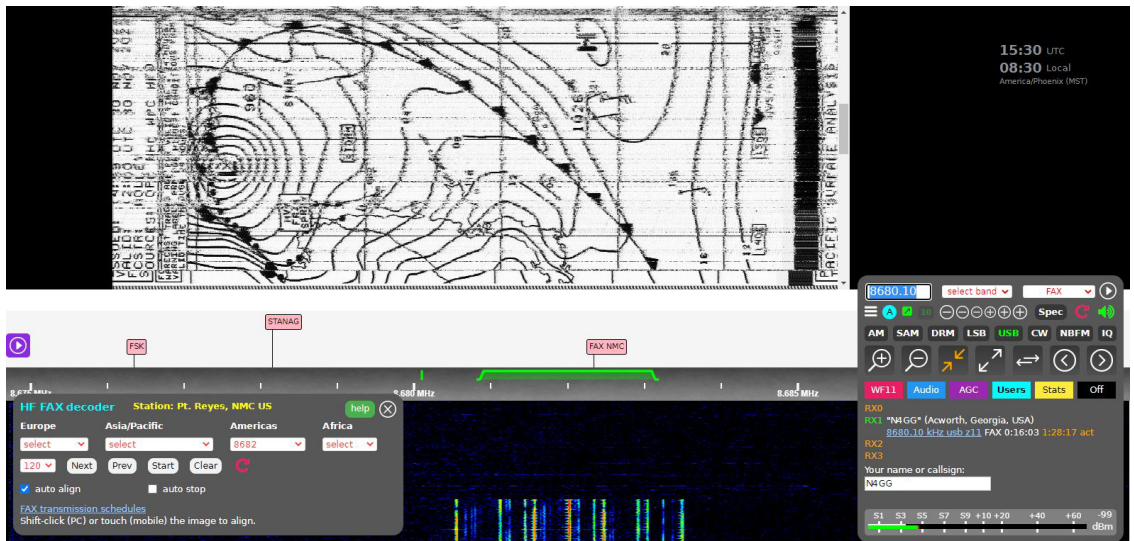
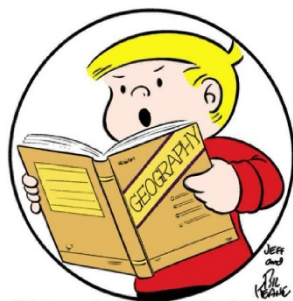


Figure 6. Weather FAX as transmitted from Point Reyes, California, on 8680 KHz.

25 Years Ago... (de Bob Sarnecki, NF7D)



"If it wasn't for ham radio, I would have never even heard of Kyrgyzstan, Brunei, Kiribati, Djibouti, Malta, Nauru, Azerbaijan, or Burkina Faso!"

The December, 1997 Newsletter is attached for your entertainment. Ernie Zingleman, President, apologized for missing the SEDXC December meeting, due to the flu. I couldn't help thinking about our President, Chuck (AE4CW) who is on the mend after a bout with pneumonia. Feel better, Chuck! We miss you!

The meeting minutes were interesting. One of the SEDXC members asked if it would be a challenge to use a meeting space that "did not include dinner and a bar"! After 2+ years of COVID-induced Zoom meetings, I would hate to be asked to vote on foregoing dinner and drinks when hams get together!

Take a few minutes to read and enjoy!

73 & Happy Holidays,

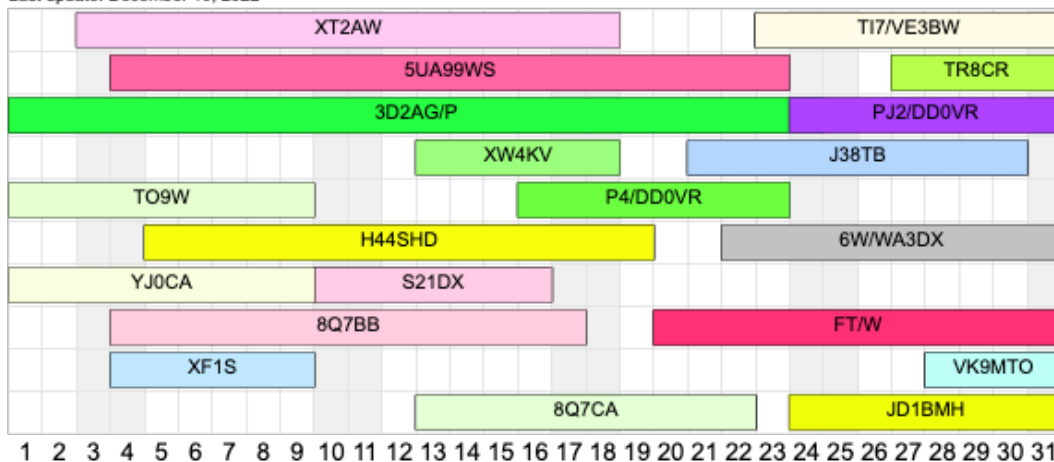
Bob, NF7D

DXWorld.net DXpedition Timeline



DXWORLD.net FEATURED DXPEDITIONS TIMELINE

Last update: December 19, 2022



Edited by MM0NDX

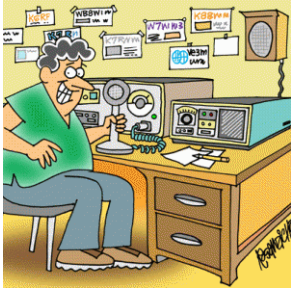
DECEMBER

© IK8LOV Max Laconca

The *DX World* Calendar features a timeline of all DXpeditions anticipated for the current month and is a great way to plan your chase for the next, All-Time New One (ATNO). The Calendar is updated regularly; use this link to see the latest version:

http://www.hamradiotimeline.com/timeline/dxw_timeline_1_1.php

SEDXC Officers & Positions



SEDXC Officers:

Chuck Catledge, AE4CW – President – c.catledge@gmail.com
Clark Macaulay, WU4B – Vice-President – macaulay@gmail.com
Joel Levine, WA4HNL – Secretary – jlevine@bellsouth.net
Jeffrey Cantor, K1ZN – Treasury – jacantor9@gmail.com
Bob Hensey, K4VBM – Activities Manager – ptcorners@gmail.com

SEDXC Appointed Positions:

Chaz Cone, W4GKF – Webmaster – w4gkf@chazcone.com
Bob Sarnecki, NF7D – *SEDXC Bulletin* Editor – bob.sarnecki@gmail.com



SOUTHEASTERN DX CLUB

W4NT

*THE
SOUTH'S
PREMIER
DX CLUB*

December 1997

NEXT MEETING TIME & LOCATION

Tuesday, Dec. 16th, 7:30 PM, Old Hickory House in the Days Inn, Roswell Rd., just inside I-285.

VP THOUGHTS

-Ernie Zingleman, KS4Q, VP

(President Paul's, W6XA, computer broke)

Thanks to Tom, K8XP, for putting on an great program on AL7EL/KH9 Wake Island. I personally missed the meeting due to the flu bug circulating in my home, but I heard that it was an excellent show. In the near future Tom, we hope to hear about your more recent ZK1XXP North Cook Island trip!

I hope that all had fun in the CQ WW contests. I sat out for the SSB contest, but put in a stint operating at NQ4I, Rick's QTH for the CW 'test. My primary band was 10 meters which as you know is still marginal. At around 11:00 AM local time things really came alive. I began running Europeans at about four per minute. This lasted for about 30 minutes then the propagation shifted. In times like these, I remember why I like CW contesting so much. When I tuned the bands the next week from home, I thought "why is everyone going so slow?" Truly, an easy way to hone the CW skills is to do a little contesting. K2UFT and K4OGG were also part of the crew at Rick's.

Following this, I played around the past weekend in the ARRL 160 Meter CW contest. I did not hear many Europeans but did hear a few locals slugging it out. In general, though the main focus of the club is DXing, I think we should all do more to encourage participation in contesting activity. It is a great way to hone our operating skills.

For this month's program we will have an auction of gear to benefit the club. Here is how it works: The seller places a minimum value on the item to be sold. If this minimum is not met, the seller may take his gear back with no strings attached. If sold, the club receives 5% of the proceeds. I might also mention that the club is taking

donations, in which case the club receives all of the proceeds. I think this is a fun way to make money for the club while transferring your junk to someone else! Remember, your junk is someone else's treasure. Please pass the word, and phone members YOU haven't seen in a while that you miss seeing.

Lastly, this is advance notice that the January meeting will be held at a new trial location at the new Tech America store. It is located on Buford Hwy. on the left as you pass outside of I-285. This January meeting will start at the regular time of 7:30 PM.

Our esteemed President and broken computer owner, Paul W6XA, sends his regards to all. I hope to see all of you at the December meeting at the regular location.

Remember, bring your junk!

73, Ernie KS4Q

BEEPS DE K2UFT

-Dick Bentley, K2UFT, Activities Director

OK. will give it my best. Have two basic news items - the ARRL took umbrage to my filing 10 W4S applications at once. They allowed the first two 15 day periods (K4WA then me) so I'll advise others to file independently if they so desire.

Second item will be a change in meeting site to the Tech America meeting room, Buford Highway just outside 285. Its free and there's plenty of places to eat nearby. I may suggest we meet first and eat later. This will be for January forward until we grow tired of it or they throw us out!

73 Dick, K2UFT

The SEDXC Newsletter is published monthly by the Southeastern DX Club. All opinions expressed by the contributors do not necessarily reflect those of the editor, officers, or club. We welcome your opinion.

TREASURER'S REPORT

-Nancy Draheim, NK4U

No report this month since I have the flu, will make up for it next month.

See ya at the December meeting.

73, Nancy NK4U, Treasurer

SEDXC MINUTES 11/18/97

-Rick Glisson, N4XXM, Sec.

The meeting was called to order at 7:43 PM. 22 people were present. Paul had everyone introduce themselves.

K2UFT moved that the minutes be accepted as printed in the newsletter. This was seconded and passed.

Activities report: Dick, K2UFT, repeated that if anyone was interested in the W4S special call to contact him. Nancy, NK4U volunteered to handle the QSL'ing. A certificate was also discussed. A motion was made by Rick, N4XXM, to do this. Phil, W4GTS, seconded the motion and it passed.

Paul, W6XA, said he would give a report on the survey next month.

Since the membership chairman, Paul, K4UJ, was not present, no report was given. The survey had not been mailed and Paul, W6XA, would send out mail and email.

W6XA also said he would make a case of not issuing 1X1 calls to DXCC locations. Dick, K2UFT made a motion to this effect and John, N4TOL, seconded. The motion passed.

W6XA also asked if the absence of dinner or a bar would be a problem for a meeting site. There were no objections. An alternate site would be looked into.

Sunny, KE4LDJ, said he would get information on how to attract new members.

An excellent program on Wake Island, AL7EL/KH9, was given by Tom K8X. Tom hopes to return soon for more low band activity.

The meeting was adjourned at 9:10 PM.

-Rick, N4XXM, Sec.

DX TIDBITS

-Rick Glisson, N4XXM, editor

I don't know if the ARRL 160M contest qualifies as a DX TIDBIT subject but it does for me! I actually get excited trying to work the west coast (for a change, usually I'm trying to get through them for something tasty in the Pacific!). I did hear from Dick, K2UFT, that he worked some JA's on 160 during the contest. Now that is really cookin'!

The contest started at 5:00 PM Friday night but it took me until 6:00 to get in front of the radio. Started at the low end (I know all you guys say start at top) and worked my way up. You forget how long that takes to travel that far up the band very slowly when you're listening carefully! The usual powerhouses such as W4WA, AA4S, and W3LPL were usually found between 1820 to 1830 with a few riding on the high side between 1835 to 1840. I will say that the DX window was pretty much left to the DX. Of course, once a DX station showed up, that frequency was torn to shreds with people who thought they could hear as well as the people that could actually hear! If I can't hear VE3EJ, my antenna is broke...

Speaking of the DX window, I did managed to work the P40P without too much trouble. Everyone else seemed to have worked him too so propagation wasn't too bad.

Worked a VE2 in Quebec and when I entered the section QC using CT, the computer coughed. After the contest, I would that while I had updated all my .CTY files, my DAT files were way out of date. Got on the internet at the excellent www.contesting.com site and dl'ed the CT DAT files I needed. Found a W4 sending SK for his section but figured he was probably in VA...

The west coast is always a challenge for me. Managed to snage a WWA for the "pick of the litter" contact. Got AZ the second night after spending way too much time the first night. Got all the EMA, CT, EPA, VT stations I wanted but what happened to those guys up in ME? I didn't hear them.

One thing that was great, no thunderstorms during the contests. Static crashes are bad enough on the high bands, 160 is impossible!

CU in the pileups...

-Rick, N4XXM

ARLD051: DX news

ZCZC AE51 QST de W1AW DX Bulletin 51 ARLD051 From ARRL Headquarters Newington CT December 4, 1997 To all radio amateurs

This week's bulletin was made possible with information provided by Tedd, KB8NW, the OPDX Bulletin, The Daily DX, Tim, N4GN, The DXNL, The 599Rpt, the Daily DX and Contest Corral from QST. Thanks to all.

TUNISIA, 3V. Albert, F2KN, will guest operate 3V8BB from December 9 to 15. He is here on business, but will try to operate as time allows. QSL to home call.

SINGAPORE, 9V. Sam, 9V1ZB, will be QRV weekends on 160 meters. QSL via JL3WHL.

ISLE OF MAN, GD. Steve, GD4UOL, will be QRV in the ARRL 160 Meter Contest and will otherwise be active until December 6. QSL via the bureau.

GUERNSEY, GU. Jay, K4LZE, will be QRV as MU0BKA until December 9. He will be using mostly CW on 160 to 10 meters. He may try some SSB. QSL to home call.

ST. PIERRE AND MIQUELON, FP. Rick, N1RL, with W8MV and WZ8A plan to be QRV as FP/W8MV during the ARRL 160 meter contest December 5 to 7. They will also operate FP/homecalls as conditions permit. QSL contest call via W8MV. QSL the others to their homecalls.

THAILAND, HS. Ralf will be QRV as HS0/DL2FDK on 40 to 10 meters using SSB and RTTY until January 19, 1998. QSL to home call.

ARUBA, P4. Martin, VE3MR, will be QRV using SSB as P40MR until late April 1998. QSL to home call.

ST. MAARTEN, PJ7. Isao, PJ7/KG8XV, will be QRV on 160 to 10 meters from December 10 to 17. QSL via JH1ROJ.

BOSNIA AND HERZEGOVINA, T9. Cedric, F1PSR, is QRV as T98PSR until March 1998. Activity is on 160 to 2 meters, with some satellite and packet activity as well. QSL via F5WN.

CENTRAL AFRICA, TL. Pascal, TL8PL, is QRV until the end of December. QSL via F5LNA.

SOUTHERN COOK ISLANDS, ZK1. Guenther, ZK1DI, is QRV from Rarotonga using CW on 80, 40 and 30 meters. QSL via DK1RV.

QSL MANAGER CORRECTION. The correct QSL route for the Icelandic IARU society club call TF3IRA is via the callbook address. N4GN is not the QSL Manager for this station.

THIS WEEKEND ON THE RADIO. The ARRL 160 Meter contest, QRP ARCI Holiday Spirits Homebrew Sprint and TOPS Activity 3.5 MHz CW contest are all on tap for this weekend. Please see December QST, page 98 for details. NNNN /EX

30092X2106

6/30/98 K4JRB
Dave Thompson
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- NI4X (9600) 144.93, 145.71, 440.75
- K4UJ (2400) 145.67
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DX COMMUNICATION FREQ.

- Simplex 147.54
- Melvin 147.51
- K4JPD Repeater (tone 7)
147.795-

INTERNET ADDRESS

www.peachmall.com/sedx/dxhome.htm

NEXT MEETING

Dec. 16th 7:30 PM, Old Hickory House, Days Inn on Roswell Rd., just inside I-285