



Bulletin



July 2023

Founded In 1958

Our Next Meeting & Speaker

Date & Time: July 20, 2023, 7:00 PM
Location: Via Zoom
Speaker: Gregg Marco – W6IZT
Topic: Ducie Island DXpedition and RIB

Please join us for an interesting and entertaining presentation.

From the Prez *(de John Tramontanis, N4TOL)*



New Administration

I want to thank you for electing me to serve as President of the Southeastern DX Club for the new club year. I am honored to have the opportunity to represent our fine club. The goal of our new board is to continue the positive direction that Chuck, AE4CW, and the previous board has steered us.

Much credit and appreciation to outgoing officers; Chuck, AE4CW, Clark, WU4B, and Bob, K4VBM. This year's team will be comprised of: Nathan Wood, K4NHW - Vice-President, Jeff Cantor, K1ZN - Treasurer, Joel Levine, WA4HNL - Secretary, Verne Fowler, W8BLA - Activities Chairman, Van Herridge, N4VGE - Bulletin Editor, Chaz

Cone, W4GKF - Webmaster . Our program for the July meeting will be presented by club member Gregg Marco, W6IZT, sharing the experiences of the recent DXpedition to Ducie Island and their utilization of "RIB" (Rig-In-A-Box) technology. Our goal for the coming year is to continue to provide the excellent programs at our ZOOM meetings and to also promote the "art" of DXing by

engaging our members in sharing knowledge amongst the ranks, and also to continue to support DXpeditions, as well as mentoring those new to DXing. See you on the ZOOM

July 20th.

73 John N4TOL



<http://t-rexsoftware.com/sedxc/dxelmers/>

VP's Corner *(de Nathan Wood, K4NHW)*

A Few Words About Our Speaker



VP Corner

This Month

Let me express a huge THANK YOU to the nominating committee for their diligence in recruiting this year's

SEDXC Officers. They have worked tirelessly over the last 2 months to ensure that these positions were filled. And for that, they should be commended.

It is an honor and a privilege to serve as your Vice President. We have had some amazing programs thanks to Clark, WU4B, and the other VPs who preceded him. I

hope that I can continue that quality of service.

This has been said many times, many ways.... If you have any topics that you'd like to learn more about or know of a great presentation that you would like to see at a SEDXC meeting, let me know and I'll be more than happy to do my best to make that happen!

To start this club's new year, we'll have one of our own, Gregg Marco, W6IZT as the speaker in July. Gregg is no stranger to the club. He was first licensed in 1968 and primarily operates CW. His main interests are in DXing, contesting and DXpeditions.

Gregg has operated from numerous DXCC entities, three of which were in the top ten most wanted. This month, Gregg will be speaking of his recent adventure to Ducie Island VP6A! He'll speak on this "new" type of DXpedition and what this means to

DXpeditions to come. Gregg will also have an update on his RIB ("Rig-In a-Box") project and how it performed on the 56th "most wanted" entity!

73's

Nathan H. Wood, K4NHW

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



Greetings, Fellow DXers!

Checkbook balance as of July 1, 2023 = \$15,505.65

The proposed and recommended 2023-2024 operating budget

for SEDXC is attached to this Newsletter.

We have added new line items for government fees and for educational activities associated with our new 501(c)(3) status. We have continuing items for the NCDXF Beacon Project and Clublog support.

Also attached is a funding application from Stan, LZ1GC for a DXpedition to Niue in

early October 2023 under the call sign E6AM. The leadership is recommending \$300 to award to this operation. An analysis of our members' Clubleagues logs shows that 66% of the 30 participants need E6 as an ATNO, the rest could use it as a band fill, especially on the low bands. E6 is #82 Most Wanted WW and #121 NA/EC.

73 & GUD DX,

Jeff / K1ZN

June Disbursements

Purpose	Amount
Treasurer's Report	
Disbursements	
New member package	\$0
TOTAL:	\$0

June 30, 2023 Account Balance is \$15,505.65

Southeastern DX Club
D R A F T Annual Budget
2023 – 2024

Checkbook balance on June 30, 2023 was \$15,505.65
Available funds for DXpedition Grants are: 7,752.83

1. Available DXpedition Grants	\$7,752.83
2. Club Picnics/Holiday Party	\$1,500
3. Hamfests & Programs.....	\$250
4. Webmaster / IT	\$275
5. Postage	\$150
6. Insurance	\$200
7. Beacon Project	\$300
8. ClubLog Donation	\$400
9. Zoom Fees	\$250
10. Government Fees.....	\$300
10.Remembrances/condolences	\$400
12.Educational Activities.....	\$400
Total	\$12,177.83

Approved at general membership meeting _____2023

TNX, 73 & GUD DX,
Jeff, K1ZN

Activities (de Verne Fowler W8BLA)



Starting off in a new role, I want to reach out to the membership and ask for input on events or activities you miss and would like to try again.

Also are there any suggestions for those two

or three times a year member events that take place like picnics, holiday parties and such.

Due to the widespread locations of the members, it is obviously very hard for those two hours or more away to attend some of them and maybe a small event in multiple locations is more favorable. Need to know if this is of interest. As a life member of INDEXA, there was recently an event announced that takes place in September 2023. A QSO Party and points for Nonmembers, Members and Officials. It looks to be a fun event and it happens to be weeklong. No reason that I can

see that an activity similar to that would be something to consider. Participation in the 13 Colonies was fun this year as in the past and would be welcomed information on how many participated, what modes and earning the clean sweep with the bonus stations. Club also will be attending hamfests around the southeast and looking to update the video presentation and focus more on membership and doing a few club presentations. Stopping by the booth and chatting up with visitors is always a great idea. Volunteers are always welcomed and so are opinions and suggestions.

Next upcoming activity is the fall picnic, and several locations might be in order. What are your thoughts? Drop me an e mail or call.

Verne W8BLA
770-364-9500
w8bla@arrl.net

Around The Shack (de Hal Kennedy N4GG)



Across one's ham career a few things will stand out. Unforgettable QSOs. Rare DX never to be worked, then worked. Awards just out of reach. Friendships.

Novel ideas, like making antennas out of beer cans.

I've had more than a passing interest in beer can verticals. The concept has a rich, frothy history. It's my belief everyone should try one

The Beer Can Vertical

at least once – both the antenna and the can preparation. Beer can verticals put out great signals and are an endless source of bemusement.

“What's the antenna there OM? You are S9 + 40!”

“Beer can vertical”

“Tell me more! Where did you get it?”

“Made it myself, starting with emptying the cans”

Beer can verticals have never been for sale. There've been no kits either. The main component (steel beer cans) was available in grocery stores for decades. Beer can verticals are built from scratch – each with its own nuances.

The first instance of a beer can vertical was documented in QST, November, 1955. The article was written by Pete Czerwinski, W2JTJ. The title of the article is stealthy (planned?). You can't find it in the QST archives by searching for "beer" or "beer can." The title is: *Budget 7-Mc. Vertical Antenna*. The article is a great read. It's instructive. It's amusing. It's a real thing. It's not in an April issue.

W2JTJ did, in fact, solder 82 beer cans together to make a 40-meter vertical. The bottom can had the end removed – it rested on a "jim- dandy quart-sized soda bottle" – the base insulator. Soda bottles were glass in 1955. The vertical was guyed at two heights using "plastic clothesline." A picture of W2JTJ with his antenna is shown in Figure 1.

Here is the material list, circa 1955:

Item Cost

- 82 beer cans \$0
- 200 ft. plastic covered clothesline \$1.80
- 3 guy-line insulators \$0.36
- 1 soda bottle \$.05
- 1 hank of solder \$0.25
- 130 feet aluminum wire (radials) \$2.50
- 4 pieces - brass welding rod \$0.50
- 1 can, pressurize aluminum paint \$1.39
- Total: \$6.85

Adjusted for inflation from November, 1955 to May, 2023, that's \$77.44 in today-dollars.

Note the cost of the beer and beer cans was listed as zero. It was an article of faith that 82 empty beer cans would be available, antenna project or no antenna project.

Bringing the design up to date would require surprisingly few changes. It might even be possible to build one for \$77.44, the inflation adjusted budget. Yes, this is a personal challenge. Let us know how it turns out.

Thoughts on Replicating it Today

A 1950s quart-sized glass soda bottle can be purchased on eBay for \$5.

Knowing what we know now, the four 32 foot long buried radials would be better at around 22 feet and made from copper wire, not aluminum.

The Wireman sells suitable copper wire for \$0.10/ft, so that's \$8.80 for the radials.

Call on your ingenuity to update the clothesline guy wires. One possibility: 210 yards of 50 lb fishing line can be had at Walmart for \$5.53.

The elephant in the room is the beer cans. In 1955 beer cans were made of heavy-gauged steel, coated with tin. The rims were easy to solder to. Today's beer cans are made from thin-walled aluminum, both too flimsy to stand 32 feet vertically and nearly impossible to solder to. There has been recent progress on these issues however, which I cover below.

Individual 1950s steel beer cans cost around \$7 on eBay. 82 of them would cost close to \$600 – that's inconsistent with the "budget" design philosophy. Searching eBay for "Large lot of steel beer cans" was more encouraging. I found a lot of 20 assorted steel cans for \$4.99 + \$10.64 shipping. Some listings include the words: "Or best offer." With diligent shopping, 82 cans might be found within the \$77.44 budget. If not, the antenna could be completed for around \$100 – still a "budget" antenna.

An aside: eBay beer cans from the 1950s arrive empty.

The remaining task would be finding a suitable “hank” of 60/40 solder. Once again, eBay is a good bet.

An Editorial Remark

From the time this antenna design first surfaced, well meaning but misguided persons have suggested soda cans and even SOUP CANS could be substituted. Setting aside the puns that come to mind, I have never encountered a successful “soup can vertical.” Can antennas of the non-beer variety are wrong on every level.

Can Antenna History

My brother-in-law Mike, WS4Q (WN2GJG in those days), built one in 1964. I helped with the soldering. I recall the first attempt to put it up resulted in it folding over somewhere near the middle. After repair and with a larger crew (three of us) we managed to get it vertical without crimps or folds. It was a fine antenna. Those beer cans worked a lot of nighttime DX on 40. To this day Mike may hold the beer-can DXCC record (and not realize it).

At this point I’ll confess I built one of these antennas myself. Mike’s success was inspiring. I completed construction in 1965, but never got it up. Soldering the cans together was the easy part. Getting it vertical eluded me. Steel beer cans are sturdy, but as the 1955 article points out, it takes three or four persons to get one of these up without having it crimp or fold over. My beer can stack and I went through numerous cycles of folding over, being repaired and folding over again. Trying to erect one of these by yourself is a fool’s errand and a colossal waste of solder.

As with all great ideas, there were follow-up articles in QST over the years. The original article’s author, W2JTJ, wrote a follow-up: *The “Budget” Vertical on 20 Meters*, published in the September, 1960 QST. It described a matching network to get the 82-can 40-meter

vertical resonant on 20 meters. Notice the title, once again, does not include the word “beer.”

For those disinclined to root around in the QST archives, here are a few excerpts from each of the salient articles.

From W2JTJ’s November, 1955 Article

In a sidebar: The author shows considerable ingenuity in utilizing readily- available materials... [Note: QST makes no up-front mention of beer or beer cans]

...beer cans are approximately 2 ½ inches in diameter and the supply, especially during the summer months, is virtually inexhaustible. The completed mast, glistening with the new coat of aluminum paint, is now ready for installation. The author suggests that four men be used on this job. While two men support the mast at its center section, a third man should climb a stepladder and place the top end on a near-by first-story roof or other structure... The author accomplished these steps...experiencing no difficulty whatever. [Ha ha!]

The XYL did comment on the neat appearance of my new antenna, although she confessed that there were times, as I was soldering the cans together, when she thought I had finally lost my marbles.

From April, 1956 QST. *The Beer-Can Antenna, Minnesota Style*, by H. T. Orr, WØWET

...As soon as W2JTJ's article...immediately remarks could be heard on the local nets, like "Say Bob, you want to come over and help me get the material ready for the new antenna?" The first thought...was to invite the local boys over...the theory being that each person would be capable of removing the contents of enough cans to make a 6- or 10-meter vertical. Since no silica gel was available to act as a dehydrating agent in each can, the occasional cigarette butt found in the cans was left there in hopes that it would absorb any moisture that might collect.

The only means of soldering here was a 135-watt soldering gun. The first two cans took about 10 minutes to solder. The handle of the gun was hot enough to melt solder by itself. According to the article, the assistance of four persons is necessary... It was found that persons with interests in raising beer can antennas were as scarce as 160-meter wide-spaced rotary beams.

At the first attempt the antenna raised almost three feet off the ground before breaking. On the second try the antenna went up almost six feet before breaking into three pieces. If the picture of W2JTJ's finished product had not appeared in QST, we would never have believed it could be done. We quickly made bets as to how many hours it would stay up.

From "Strays," May, 1956 QST

The "beer can vertical" that was described in the November, 1955 QST now is used by the Illinois State Police Department. Early in March W0EDH and W9ZJZ constructed an antenna mast out of 77 cans and erected it in front of the state police building.

...the base insulator was fashioned from a ginger ale bottle mounted in a coffee can.

The beer-can job [sic] was constructed for use with the state police 700 watt transmitter...

From "Strays," June, 1956 QST

Perhaps it is time to call a halt to the saga of the beer can antennas. But at least let's wind it up in the following vein. First, a minister has written to ask just how he could reasonably accumulate the necessary 82 cans. This was topped only by a 13 year-old who wanted to know whether the antenna would work just as well with frozen orange juice cans!

From September, 1960 QST. *The "Budget" Vertical on 20 Meters*, by W. Pete Czerwinski, W2JTJ

...the author would like to make a few comments on the mechanical attributes of this antenna. It has weathered all storms over the last five years without damage. A direct hit with a baseball kinked one of the cans...I had to scare up a replacement – not a very serious problem!

The original aluminum paint lasted about two years. When the labels on the cans started to show through, the XYL... Several of the readers of the original article complained of difficulty in making solder stick to the cans.

From "Strays," June, 1961 QST

WA2QWF suggests that those hams who put on too much weight emptying beer cans for a beer-can vertical will be glad to know that Metrecal cans also work fine.

A Problematic Discovery in the August, 1943 QST

Researching subjects held near and dear can sometimes lead to discovering things you'd rather not know. Since I became licensed in 1961 I've held the belief that W2JTJ invented the beer can antenna in 1955. This may not be the case. Here is the very brief caption under a photo (Figure 2) at the bottom of page 60 in the August, 1943 QST:

“The quarter-wave vertical antenna is made up of one-quart oil cans soldered end-to-end.”

Ah, an enigma. Was W2JTJ’s 1955 beer can vertical inspired by W9GGI’s oil can antenna from 1943? They were both for 7 Mc. (MHz). They both used lots of cans.

We will never know, but my wish-bias leans in favor of W2JTJ not being influenced by W9GGI’s oil can vertical. I wish to believe both are original designs. History is replete with examples of great things discovered independently by two or more people.

The Modern Can Antenna

I wrote about the WB4VVF ACCU-KEYER some months ago. First described in the August, 1973 QST, people are still building that keyer today – 50 years later. Are 1955-engineered beer can verticals being built in 2023, 68 years later? Or have they been relegated to the dusty memory of geezers like me?

Like ACCU-KEYERS, the occasional beer can vertical is still being built. I am writing this the day after Field Day, 2023. Yesterday a newly built beer can vertical went on the air at the GARS (Gateway Amateur Radio Club) Field Day, callsign K4GAR. It was built by David Wall, NA4AE. It’s resonant on 15 meters. It radiated just fine – a lot of contacts were made. See Figure 3. Consistent with every beer can vertical built, NA4AE’s design deviated somewhat from the W2JTJ design of 1955.

David’s design is an elevated ground plane rather than a ground-mounted vertical - a wise decision. Also, the beer cans are modern aluminum ones, purchased from a local brewery. It’s nice to know you can support local businesses with antenna parts purchases. Craft brewing has made this possible.

During Field Day 2023, the NA4AE beer can vertical was operated from the parking lot of a

brewery – the same one selling the cans with free beer included. That must be worth an additional 6 dB. Perusing David’s design I’m guessing the cost came in at under \$100.

Per David, soldering the cans proved impossible. Electrical connection was made by strapping each can to the next with wire. As anticipated, the aluminum cans had negligible structural integrity (heck, even steel cans kept folding over in the 1960s) so David’s design included a support tube running up through the center of the cans. As an adjudicator of all things beer-can-antenna related, I have ruled this departure from the original design “in-bounds.”

Building Your Very Own

Doing a little research I discovered there are beer can size standards. Who knew?

A standard 12 oz. beer can is 4.8 inches tall and 2.6 inches in diameter. Were those the dimensions in 1955? I don’t know but they must be close.

82 cans work out to 32.8 feet, which is just right for a 40-meter vertical.

For 82 cans with a 2.6 inch diameter, EZNEC predicts a resonant frequency of 7.17 MHz (Mc in 1955) and a flat SWR of 1.3:1 across the entire band. Not a bad design.

For those inclined to continue the rich history of budget beer can antenna building, here is a useful table:

12 oz Beer Cans Needed for a ¼ Wave Vertical

Band Cans

- 160 332
- 80 171
- 40 82
- 30 61
- 20 45

- 17 35
- 15 30
- 12 26
- 10 23
- 6 13
- 2 4.4
- 1.25 2.9
- 0.7 1.5

I will award a plaque to the first person who successfully erects an 80 meter beer can vertical. Meanwhile, small ones for six or two meters hold promise. They would be easy to build, have wide bandwidth and come with the whiz-bang reward only a beer can antenna can provide.

I can't encourage you enough to head to the QST archives and read the articles. They are a hoot. We all need a good laugh now and then and as I said at the opening – beer can verticals are a thing – they are real.

73,
Hal N4GG



Figure 1. W2JTJ poses with the original beer can vertical, circa 1955.

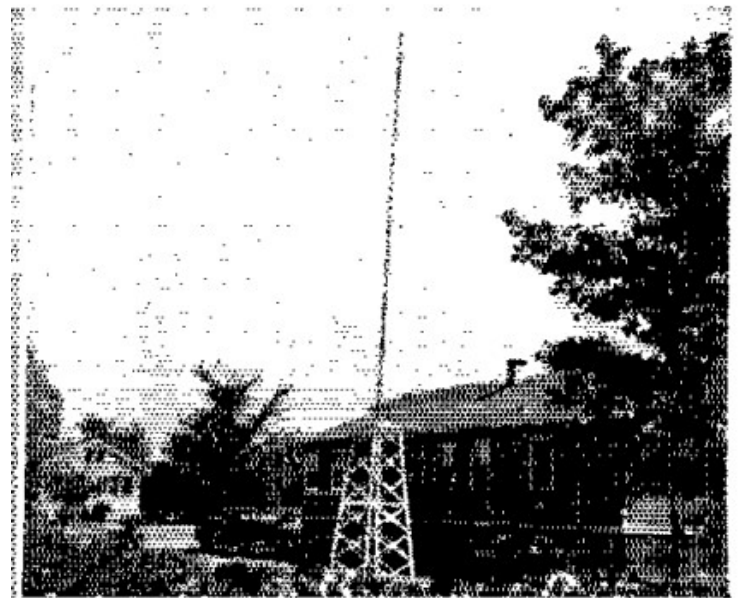


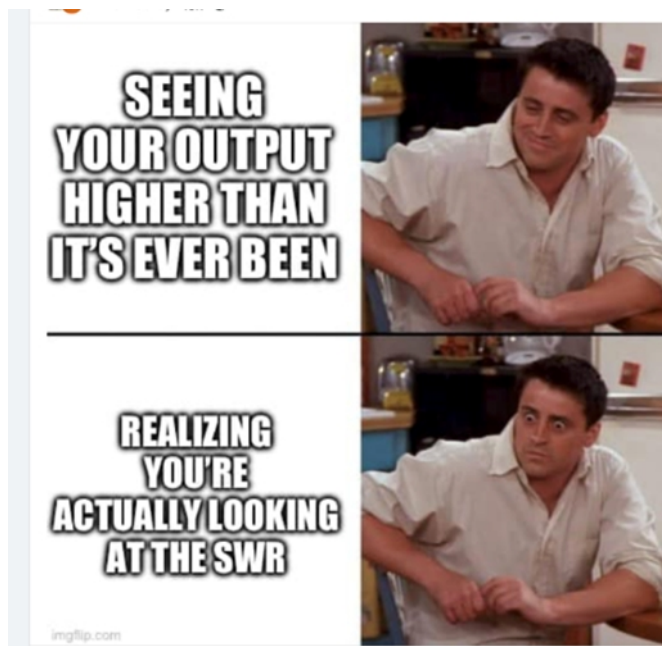
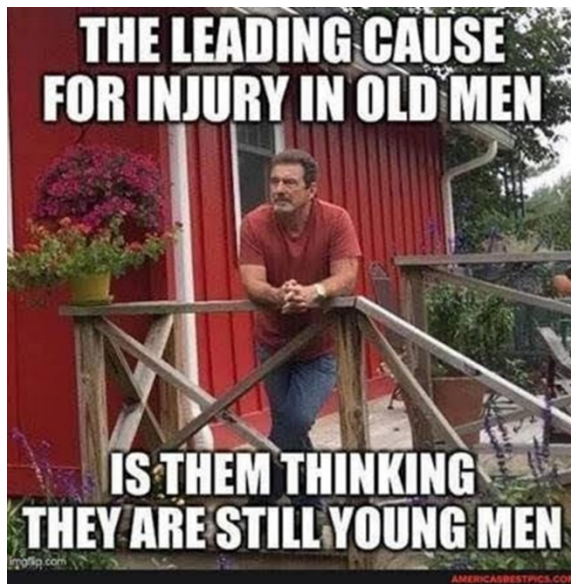
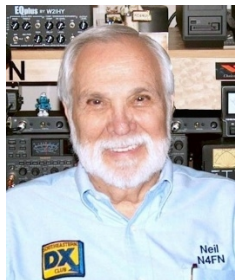
Figure 2. The W9GGI oil-can 40-meter vertical. I apologize for the poor picture quality. It's a screen grab of a PDF scan of a 1943 QST page.



Figure 3. David Wall, NA4AE with his modern 14-can 21 MHz ground plane, operating from a brewery parking lot. David used 16 oz cans and a stinger on top for tuning.

July Humor

De Neil Foster – N4FN



25 Years Ago... (de Van Herridge, N4VGE, Bulletin Editor)



The July 1998 Bulletin link is attached below for your enlightenment and enjoyment. It notes that the W4NT Award was presented to a current member Dick Bentley, K2UFT for his commitment to Amateur Radio and SEDXC. 25 years ago!

<https://t-rexsoftware.com/sedxc/bulletins/sedxc0798.pdf>

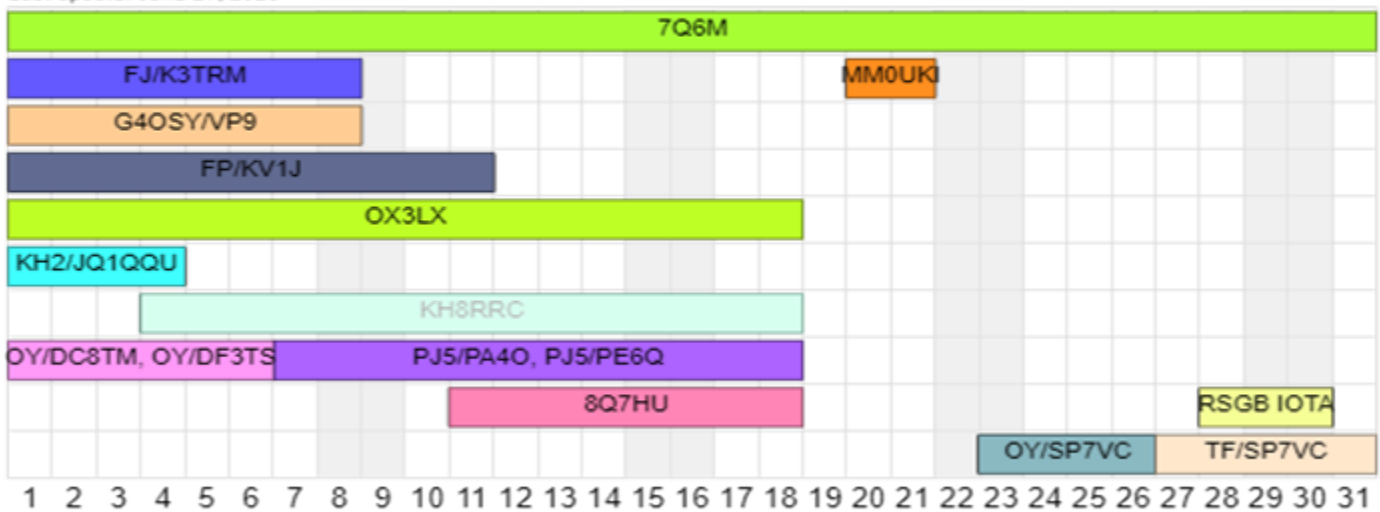


The *DX World* Calendar features a timeline of all DXpeditions anticipated for the current month and is a great way to plan your chase for the next, All-Time New One (ATNO). The Calendar is updated regularly; use this link to see the latest version:

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

DXWORLD.net FEATURED DXPEDITIONS TIMELINE

Last update: June 27, 2023



Edited by MM0NDX

JULY

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SEDXC Officers & Positions

John Tramontanis, N4TOL – President – iam4rb@gmail.com

Nathan Wood, K4NHW – Vice President -- nathan.wood23@gmail.com

Joel Levine, WA4HNL – Secretary -- jlevine@bellsouth.net

Jeff Cantor, K1ZN – Treasurer -- jacantor9@gmail.com

Verne Fowler, W8BLA – Activities Manager -- w8bla@arrl.net

SEDXC Appointed Positions

Chaz Cone, W4GKF – Webmaster – w4gkf@chazcone.com

Van Herridge, N4VGE – *SEDXC Bulletin* Editor – vanherridge@gmail.com

Please find a funding request below:

**Fill out the form completely and send it to:
Treasurer.SEDXC@Gmail.com**

Entity Name / Call Sign	E6 (Niue) – E6AM DXpedition 2023
Date of Application	03 June 2023
Approx. Date and duration of Dxpediton	From 10 October – 23 October 2023 (13 full days).
Web page	WWW.C21GC.COM
Team leader / number of members:	Organizer & team leader Stan, LZ1GC This expedition will be with 2 operators: 1. Stan, LZ1GC 2. Dimo, LZ1ON
List name & call of each team member	1. Stan, LZ1GC – operator on CW, SSB, RTTY and FT8. Previous Dxpeditons organized and realazed by him: 3D2GC - Fiji, 3D2GC/p – Rotuma Isl., C21GC, T2GC, H40GC, H44GC, 5W0GC, YJ0GC, T30GC, A35GC. 2. Dimo, LZ1ON - operator on CW, SSB, FT8.

<p>List DXpeditions that each team member above took part in</p>	<p>1. Stan, LZ1GC Previous DX activities & Peditions by Stan, LZ1GC: A35GC - Kingdom of Tonga (2022), T30GC - Western Kiribati (2019), 5W0GC - Samoa (2018), YJ0GC - Vanuatu (2018), H40GC - Temotu Province (2016 & 2017), H44GC - Solomon Islands (2016), T2GC - Tuvalu Isl. in 2015, C21GC - Nauru Isl. in 2014, 3D2GC - Fiji Republic in 2011, 2012 and 2013, 3D2GC/P - Rotuma Isl. (2013), SV8/LZ1GC - Samothraki Isl., Greece IOTA EU - 174/ 2012 /, LZ1GC/1 - Sveta Anastasiya Isl., IOTA EU - 181 (2010).</p> <p>2. Dimo, LZ1ON – this is his first DXpedition activity.</p>																														
<p>QSL manager / QSL route</p>	<p>E6AM QSL via E6AM OQRS on Clublog, LoTW, via LZ1GC QRZ.COM and via LZ bureau.</p>																														
<p>Funding amount requested – please attach budget & show team’s contribution</p>	<p>1. Budget of E6AM DXpedition:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">1.Flight tickets for 2 persons:</td> <td style="text-align: right;">6950</td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">2.Accommodation</td> <td style="text-align: right;">2310 USD</td> </tr> <tr> <td style="padding-left: 20px;">3.Coaxial cable,wires & all necessary materials for the antennas & equipment,incl. 4 Fiberglass poles</td> <td style="text-align: right;">1320</td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">4.Transport (Taxi) in VK, ZL and E6</td> <td style="text-align: right;">330</td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">5.Payment for the WEB SITE</td> <td style="text-align: right;">220</td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">6.T-Shirts + caps</td> <td style="text-align: right;">150</td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">7.Others (Internet card+device,food)</td> <td style="text-align: right;">660</td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td></td> </tr> <tr> <td style="padding-left: 20px;"><hr style="width: 100px; margin-left: 0;"/></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">USD</td> <td style="text-align: right;">Total: 11940</td> </tr> </table>	1.Flight tickets for 2 persons:	6950	USD		2.Accommodation	2310 USD	3.Coaxial cable,wires & all necessary materials for the antennas & equipment,incl. 4 Fiberglass poles	1320	USD		4.Transport (Taxi) in VK, ZL and E6	330	USD		5.Payment for the WEB SITE	220	USD		6.T-Shirts + caps	150	USD		7.Others (Internet card+device,food)	660	USD		<hr style="width: 100px; margin-left: 0;"/>		USD	Total: 11940
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USD	Total: 11940																														

	!!! All this amount is from both team members!
Send Funds to:	PayPal address: lz1gc@abv.bg
Position on most wanted list – both global & North America – East Coast	Global: # 82 on Clublog NA-EC: NA - # 82
Landing permit/operating permission approved (attach copy).	E6AM call sign is reserved. The license will be received on arrival. They not issue a licenses in advance!
Overview of antennas & equipment to be taken on DXPedition	<p>Equipment which will be using during A35GC activity:</p> <p>- Transceivers: 1. Kenwood TS 480 SAT - 2 pieces</p> <p style="text-align: center;">2. YAESU FT DX 10</p> <p>- Linear Amplifiers: 1. ACOM 1200S - 1,2 KW.</p> <p style="text-align: center;">2. ACOM 700S - 700 W.</p> <p>- Antennas: 1. Multiband GP (40 - 10 m), incl. WARC bands - 2 pieces</p> <p style="text-align: center;">2. Vertical on 160/80/40 m. - 1 piece.</p> <p style="text-align: center;">3. 4el. HB9CV for 50 Mhz</p> <p style="text-align: center;">4. Mono bands Verticals</p>
Last time(s) this entity was activated	April 2023 – activity from 40 – 10 m bands.
Typical interval between activations	6 months, but this activity was only from 40 - 10 meters!
Method of transportation to DXPedition	By plane: 1. Sofia(LZ) – Heathrow(G) – Sydney(VK2)

site	2.Sydney(VK2) – Auckland(ZL1) – Niue (E6).
Your team's objective / strategy including social objective	Our strategy is to be QRV on all bands – from 160 – 6 m, including WARC and 60 m bands.Our goal is minimum 30 000 QSOs on different bands and modes.
Callsign/Age of youngest Team member	Stan, LZ1GC – 66 years age
SEDXC member initiating request	
SEDXC member(s) participating, if any	No any members in the E6AM team
SEDXC logo on QSL card & web page?	YES!
<p>Additional comments:We hope that SEDXC will support E6AM DXpedition 2023.</p> <ol style="list-style-type: none"> All Members of SEDXC, which have contacts with E6AM will receive LoTW confirmation till a month after end of E6AM DXpedition. All Members of SEDXC, which worked E6AM will receive also Paper QSLs without request! We will write an article for E6AM activity and we can send this article to SEDXC. 	

Internal Use

Date published in the newsletter	When is possible for you!
Review/analysis of SEDXC Club Leagues member sample (N=)	ATNO: Band Fills:
Results of member review at the meeting: (approved / disapproved) Recommendation \$ _____	Recommended \$ _____
Funds disbursed on date:	

Funds disbursed by:	
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