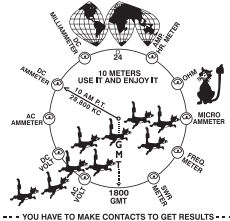


TEN-TEN INTERNATIONAL NET, INC.



TEN-TEN INTERNATIONAL **NEWS**

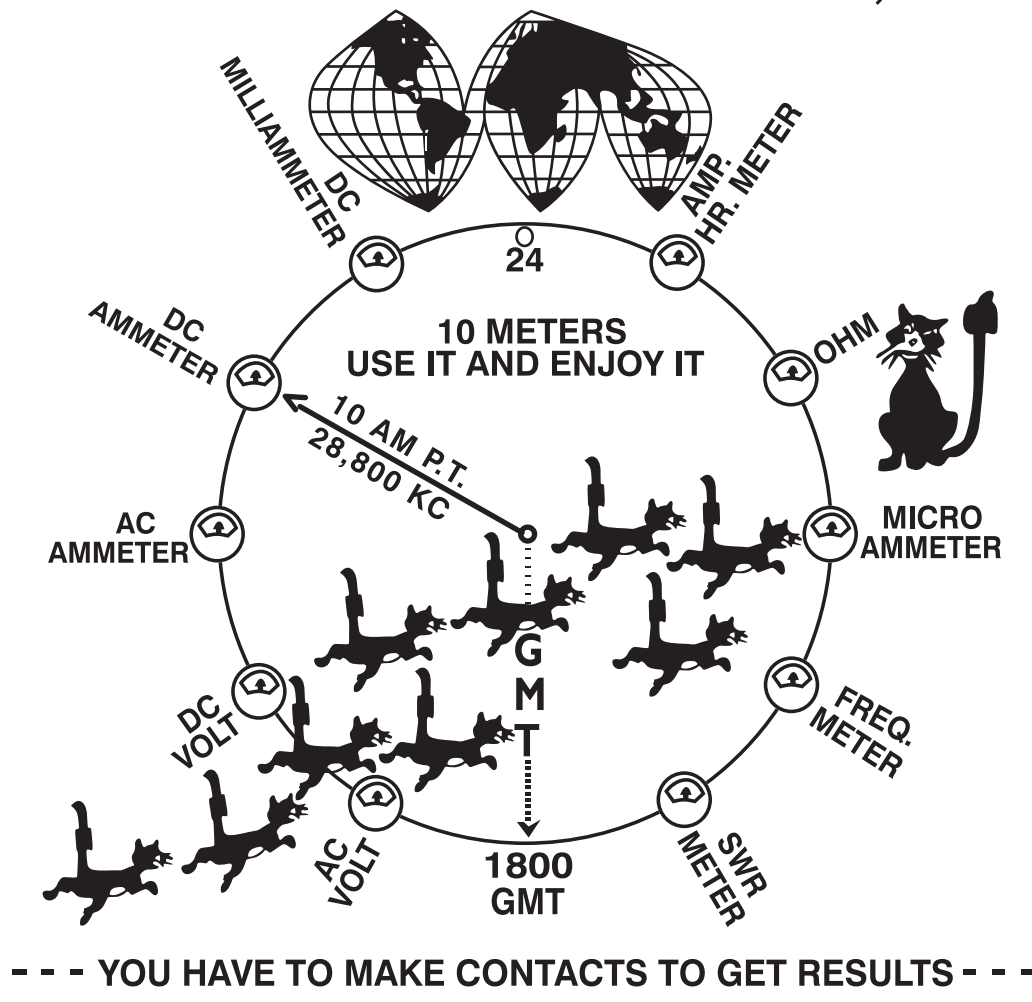


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The Ten-Ten International News

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News items should be sent to the Editor. Technical articles and information on all 10 meter activities or news are welcome and solicited. All copy submitted must be typed, and sent on computer disk or E-mail. Suitable formats will be provided upon request.

Photographs are encouraged. Black and White or Color are acceptable. Include complete information on the back of each photo. Attach a label or other suitable paper to the back of the photo and write all information on the label, not the photo. If sending digital images, high resolution of a minimum 300 dpi must be used. Please do not send newspaper or digitally printed photos as they cannot be used.

DEADLINE FOR NEXT ISSUE: 1 March 2023

PLEASE MAIL ALL ARTICLES AND PHOTOS TO:

EDITOR Ten-Ten News

E-mail: editor@ten-ten.org

10-10 CHAPTER ACTIVITY REPORTS: Should be sent to the Chapter Coordinator

ADDRESS CHANGES: All members should send address changes to the Data Manger

NOTE: 10-10 IS NOT RESPONSIBLE FOR POSTAL SERVICE DIFFICULTIES

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OFFICERS AND DIRECTORS

President

Dave Ruch, NF0J #19553 (2026)

PO Box 1110, Elephant Butte, NM 87935

(575) 495-9236 dave@nf0j.com

Past President

Mel Sojka, KD5DE #33513

353 Atlantic Ave., Shreveport, LA 71150-2909

(318) 286-2963 kd5de@ten-ten.org

Vice President/Secretary

Ronnie Hull, W5SUM, #02019 (2024)

1855 Shady Lane Dr., Shreveport, LA 711118

(318) 550-8269 w5sum@comcast.net

Treasurer

Keith Schlottman, KR7RK #63324

6206 E. Pima St., Suite #2, Tucson, AZ 85712

(520) 298-8488 keithschlottman@gmail.com

Directors

Robert L. Farrow, N6OPR #45715 (2024) - Daily Nets

23417 S 180th Street, Gilbert, AZ 85298

(562) 631-1393 n6opr@msn.com

Larry Berger, WA2SUH #00407 (2024) - QSO Parties

9 Nancy Blvd, Merrick, NY 01156-3119

(516) 223-4611 wa2suh@aol.com

Mark Steele, KD2NOM #77569 (2024) - Publicity

1 Karen Court, Monroe Township, NJ 08831-4037

(732) 213-0159 kd2nom@gmail.com

Marcus Lieberman, KM5EH #71103 (2026) - Awards

2300 Hurley Dr. NW, Albuquerque, NM 87120-1013

(505) 836-1724 buckml@lobo.net

George Davenport, KM4ODS #77504 (2026) - Publications

201 Whitechapel Lane, Rockfish, NC 28376

(910) 774-0444 km4ods@gmail.com

Chuck Dockery, N7UQ #72774 (2026) - Chapters

112 S Rolling Meadows Dr. Wylie, TX 75098-5163

(469) 829-5462 chuck@n7uq.com

General Counsel

Hugo Holland, KJ5SZ #77741

10008 Bedlington Court, Shreveport, LA 71118

No Phone dahugobrit@gmail.com

NET OFFICIALS

Chapter Coordinator

Chuck Dockery, N7UQ #72774 (2026) - Chapters
112 S Rolling Meadows Dr. Wylie, TX 75098-5163
(469) 829-5462 chuck@n7uq.com

Data Manager / Supplies

David Smith, K6RDK #65812
1349 Vernon Terrace, San Mateo CA 94402-3331
(650) 504-4962 membership@ten-ten.org

Editor 10-10 International News

Randy Mather, AJ7B #7675
9625 101st Ave NE
Arlington, WA 98223 editor@ten-ten.org

Historian

Phyllis Martin, K5PLH #77878
1855 Shady Lane Dr
Shreveport, LA 71118 Phillism06@gmail.com

Net Manager

Robert L. Farrow, N6OPR #45715
23417 S 180th Street, Gilbert, AZ 85298
(562) 631-1393 N6OPR@msn.com

QSL Bureau Manager

Open

QSO Party Manager/Certificate Manager

Dan Morris, KZ3T #41015
3162 Covington Way, Lenoir, NC 28645
(828) 728-5049 dbmorris315@gmail.com

IT Manager

Jeff Steinkamp, N7YG #65084
6765 E. Rosewood Cir., Tucson, AZ 85710
(520) 546-2290 n7yg@n7yg.com

Scholarship Manager

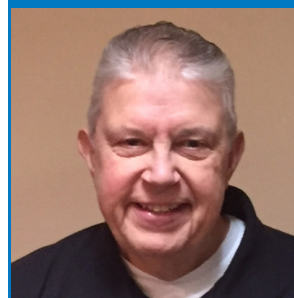
Larry Berger, WA2SUH #00407
9 Nancy Blvd., Merrick, NY 11566-3119
(516) 223-4611 wa2suh@aol.com

SK Manager/Social Media Manager

Mark Steele, KD2NOM #77596
1 Karen Court, Monroe Township, NJ 08831-4037
(732) 213-0159 kd2nom@gmail.com

W6OI Station Trustee

Jerry Kopstein N9AC #61453
8041 W Lakeshore Drive Burlington, WI 53105
(262) 661-9094 treismine2@yahoo.com



From the Editor

Randy Mather, AJ7B
(#7675)

Happy New Year! I wish all readers a great 2023 with a lot of radio contacts, especially on 10 meters. I'm looking forward to increasing activity on 10 meters as we move through the year. Hopefully that will translate into more material for this newsletter.

In this issue there are two articles that were submitted by one of our members: Carl Luetzelschwab K9LA #41258. He has submitted one article on constructing a QRP Transceiver and another article on cycle 25. Thanks Carl, for sharing your experiences. It is a pleasure to see these types of articles submitted for this newsletter. The newsletter feels a bit more personal when members share their stories and experiences with everyone else. We need more just like it.

I say welcome to two members who have decided to volunteer for a stint on the board of directors. Dave Ruch who took on the additional responsibility of leading our board and Chuck Dockery who is now a director-at-large. Both Marcus Lieberman and George Davenport decided to re-up for another two-year stint as directors. I wish all members of the board all the best and thank you all for volunteering to help keep the Ten-Ten International Net moving forward.

Well, we have a whole new year of 10-meter activity scheduled and I for one, plan to participate in as many QSO parties as I can. I was very disappointed in the Fall CW QSO Party, as I could not hear one dit or dah all the time I was on, listening and tapping out CQ 1010. But the Fall Digital did give me a bit more to work with. Numbers were still low, but it was great to exercise the old PSK31 software and make the contacts I could. Let's hope this year will be a giant step better than last year. I hope to catch you on 10 meters.

Randy – AJ7B #7675



From the President

David Ruch NF0J
#19553

Greetings and happy Cycle 25! My name is Dave, NF0J, and I am the newly elected president of Ten-Ten International. I live in Elephant Butte, New Mexico, with my wife of over 50 years, Annette, WD0FEU. We have both been hams since 1977, are both Ten-Ten members, and both of us are lifetime members of the ARRL. (Pretty cool not to have to explain the cost of or need for that new rig.) We recently moved here from Minnesota and are still getting settled, so no permanent antenna is in place. Our location is high desert with no trees to speak of. A tower installation (delayed by supply shortage) is planned for 2023.

Ten meters is (and always has been) my favorite band. As soon as I discovered Ten-Ten, I joined. Early on, the 10-meter band was wide open, so it was easy to work the world with just a few watts. With my friend David, WB0YUC (SK), we spent hours calling CQ on ten collecting numbers and giving out ours. I collected wallpaper like there was no tomorrow and created many pages of paper logs back before PCs were commonly available. (Unfortunately, all my logs and certificates were not found after our move to New Mexico. Major bummer.)

What about the future? Now that we are in Cycle 25, 10-meters is getting active. Openings are becoming more and more common. So, how can we take advantage of this? Not in any order, some of my thoughts are: (1) Get new hams (especially Technicians) aware that they can work the world on SSB, CW, and digital on ten. As an experiment, I will create a handout for newly minted hams at my local radio club to encourage them to get on 10-meters and join Ten-Ten. (2) Get old timers back on ten. (3) Re-open chapters and create new ones. Active chapters create activity. (4) Continue and increase presence at hamfests (especially small ones). I will attend as many as possible. Let's get the word out. (5) Continue friendship and encouragement that our members have always shown to newcomers. (6) Get to know and use (and maybe become) YouTube influencers. What about you? What are your thoughts about promoting and building our organization? Let me hear from you.

I wish to give a big thank you to Mel, KD5DE, for his leadership and

dedication, especially during some very difficult times. His encouragement and help in getting me up to speed during the transition (and after) are very much appreciated!

As this is written, I am still over a month away from assuming the day-to-day activities as President. I have big shoes to fill and a lot to learn. I ask for your help and patience. Your comments and suggestions are appreciated. Please feel free to contact me via email, phone, or snail mail.

Lastly, Ten-Ten International will be represented by W5SUM, K5PLH, and me at Hamcation 2023, February 10, 11, and 12. Stop by your organization's booth to say hello and show your support. I look forward to seeing you in Florida (and on the air)!

73,

Dave NF0J #19553

Ten-Ten International VP Program

What is the VP program and how do you become a VP? These are two popular questions that are asked by most all new members. First, I will cover how to become a VP. There are many 10-10 awards that a new member can pursue and one of them is the VP Certificate. Bar Awards are issued for every 100 contacts collected and sent into the Bar Manager. Once a member obtains his/her 500 Bar Award they are automatically assigned an honorary VP number and become a member of the "International 500 of the World club." Once a member obtains his/her VP number they are then eligible to start collecting VP numbers toward a VP Bar Award Program. It works similar to the basic bar award program in that one must collect 100 at a time and submit to the VP Manager for VP bar awards. That really is all there is to it! Very easy to do as long as the 10-meter band cooperates with us.

What is the VP Program/How did it get started? Now, this is a bit tougher to answer. I took the Bar Awards/VP/Lucky 13 program over in 1998. A number of changes have occurred since then. Most of those changes have been cosmetic by implementing an E-Bar Award which replaced the printed one and from 99.9% of the members, they like it much better. The VP Certificate has remained pretty much the same as when I took over. I also implemented the E-VP Certificate and the E-Lucky 13 Certificate. All are sent via email in PDF format. When I assumed these duties there was virtually no information about the VP program other than how to become a VP. No historical data at all! I guess with the progression of passing the responsibilities from one person to another the historical data either was not kept up or lost along the way. I checked the Newsletter/Bulletin archives that were issued and tried to find as much information I could about the program and how it got started. From what I can decipher Frank Orcutt, W4JO, 10-10# 386 was the Founder of the VP

program. It started May 5, 1971. What you may find interesting is, it started out as a 100% AM group eventually changing over to SSB. The main frequency was 28.800 later changed to 28.6 using SSB. It was known over the air as the 'VP Club.' Evidently, they held annual VP contests starting in 1971. In a 1975 VP bulletin put out by W4JO, he mentioned that the annual VP contests were so popular they were going to continue them indefinitely. It was also mentioned for VP-100 applications that each VP contact listed in the application was made in a "VP Region" of the band between 28.500 and 28.550. I could not find when this started nor could I find when it ended and/or changed. Neither could I find when the VP annual contests terminated. The VP Program back then was separate, financially from the 10-10 organization, although it was a part of 10-10. Back then, each call area had their own Bar/VP Managers. Frank Orcutt passed away in January 1979 and I think the VP contests may have ended somewhere around that time frame. Nothing more was mentioned about them that I could find. I do know that at least up until 1986 or 1987 time frame the Bar/VP Managers were still separated. So, each call area assigned the 10-10/VP numbers. If I'm not mistaken a group of numbers was given to each of those managers from someone who kept up with the main database.

So, there you have it. A brief explanation as to how to obtain a VP number and a short but somewhat limited explanation as to how the VP Program got started. If there is anyone out there that may have any additional information, please send me an email. Also, I have the Master VP Database and I have been trying to fill in many dates of issue that are missing. If anyone has a VP number less than VP#2000 and knows your date of issue, please let me know. Thank you.

Dan Morris KZ3T VP-1791

dbmorris315@gmail.com

NEW LIFE MEMBERS

03885	AD4K	Steven C Roth	FL
07675	AJ7B	Randy E Mather	WA
66166	KE4DER	William A McCoy	NC
78026	WA4GQJ	Angel A Moreno Fergusson	FL
78034	W4FVB	Fredrick Brock	AL

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Net Starts At 1800z
Every Day Except Sunday
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and licensed today?*

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To Join or Renew, Visit:

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**For more information, please contact:
om@qcwa.org**



Chapter Coordinator

Chuck Dockery, N7UQ
(#72774)

GENERAL NEWS

1) Hello Ten Ten International. I am your new chapter coordinator. My name is Charles Dockery (Chuck) N7UQ 72774. I have some mighty big shoes to fill and it will take some time to get up to speed with the tasks at hand. I'm asking for patience as I travel down this new road, thank you to all in advance for your understanding. As the new cycle begins to warm, I am anxious to hear old friends and new members on the air. Thank you for your time and remember "You have to make contacts to get results". You can either use the website forms for updating your chapters or contact me direct at chuck@n7uq.com or 112 S. Rolling Meadows Dr. Wylie, TX. 75098, 469-829-5462

2) All **CH/CM**: Please double check the TEN-TEN Net Guide to be sure your net(s) are listed correctly. If there are changes, be sure to let me know so I can update the list.

3) Reminder of Quarterly Reports Due: **In Extremis** (no report in over a year): Chief Seattle, Fort McHenry/ Cornerstone/Yodar Kritch, Major League Baseball, Speedway, Tango. **Past Due** (no report received during the prior quarters when due): Bauxite, Down Under, New Mexico Mud Ducks. Reports received after November 27 (date of this report) are not included here and will be acknowledged in the Chapters section of the 10-10 website.

Chapter Reports **Due during first quarter 2023**: Branding Iron (February), Route 66 (February). Note that Quarterly Chapter Reports may be sent any time. The months indicated here are the dates in 2022 in which the last report was received.

4) See www.ten-ten.org/index.php/resources/ten-ten-documents/ten-ten-forms for a form to download or www.ten-ten.org/chapters/quarterly-report to fill out and submit electronically. Be sure to notify IT Manager Jeff, N7YG, before using this easy-to-use form so he can add you to the Chapter Management Group. If you do not have internet access, let me know and I will send you a blank form that you can copy and submit.

CHAPTER NEWS

1) Since Robert, KA5VVD, became SK, the **Branding Iron** chapter is still without a Chapter Head. Peter, DL6DK, has agreed to continue as CM, but we need someone to come forward to become CH. Anyone willing to do so, please contact me.

2) Down Under CH Bob, ZL1AFU, reports that there are no longer sufficient 10-10 members in New Zealand to qualify potential new members for their own number. Now that propagation is beginning to improve, point your antenna toward the South Pacific and help them out.

3) All chapters are asked to plan for succession of leadership. To aid in such planning, IT Manager, Jeff, N7YG, has been setting up FTP accounts on the 10-10 server where chapters can save their data. All CH: contact Jeff for the details if you wish to take advantage of this opportunity.

4) Chapters below accept email upgrades as of November 27. All the listed chapters generally need previous, new and total points and seals claimed. Any transaction with the CM that requires that a certificate be issued, and most worksheet specials, should still be handled via US Mail. Also, it is good practice to keep a detailed listing of the upgrade in case the CM should require verification. Requirements peculiar to a particular chapter are noted.

(** indicates change)

Bauxite – CM K5BKT, k5bkt@nwla.com. Bauxite and Arkansas Visitor numbers only.

Bay Area – CM K6RDK, k6rdk@arri.net

Branding Iron – CM DL6DK, bic-cm@voits.de

Castle Craig – CM N1API, n1api@cox.net

Chesapeake Bay – CM N3TGB, n3tgb@aol.com

Down Under – CM ZL1AFU, zl1afu@nzart.org.nz

Fort McHenry/Cornerstone/Yodar Kritch – CM K3TUI, k3tui@juno.com

Hanse – CM DL5HAN, dl5han@t-online.de

Houston S.H.O.T – CM N5MT, n5mt@aol.com

Louisiana Pelican – CM N5MT, n5mt@aol.com

Major League Baseball – CM N6OPR, n6opr@msn.com

New Mexico Mud Ducks – CM KM5EH, buckml@lobo.net

North Georgia – CM W4GKF, 10X@chazcone.com

Oregon Trail– CH/CM K7QXG, k7qyg2@gmail.com

Speedway – CM W7CAR, w7car@arri.net

Steamboat Plus – CM KD5DE, kd5de@nwla.com

If any chapter not listed accepts email upgrades or if the email listed has

changed, please let me know so I can update the list. Thanks.

chuck@n7uq.com or 112 S. Rolling Meadows Dr. Wylie, TX. 75098

469-829-5462

TEN-TEN NET GUIDE

As of December 15, 2022

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	DAY	ZSUM	ZWIN	Chapter Name	Location	Freq
SUN	0001	0100	Chesapeake Bay	Chestertown, MD	28345	WED	0100	0200	Cincinnati Area Ten	Cincinnati, OH	28430
SUN	1300	1400	Arlington	Arlington, VA	29200				Tuners		
SUN	1400	1500	Neanderthal	Euskirchen, DL	28355	WED	0100	0200	Houston SHOT	Houston, TX	28488
SUN	1800	1800	Major League Baseball	Gilbert, Az.	28380	WED	0200	0300	10-Bar-X	El Paso, TX	28445
SUN	1900	2000	Oregon Trail	Dallas, OR	28330	WED	1400	1500	EU DX/Branding Iron/	Bergkamen, DL	28355
SUN	1930	1930	North Georgia	Atlanta, GA	28415				Hanse		
MON	0100	0100	Arizona Desert	Phoenix, AZ	28445	WED	1930	1930	Route-66	Apopka, FL	28370
MON	0100	0100	Lonestar	Arlington, TX	28460	THU	0100	0100	Cow Town	Arlington, TX	28460
MON	0100	0200	Milwaukee	Milwaukee, WI	28365	THU	0100	0200	Gateway	St. Louis, MO	28650
MON	0130	0230	Bauxite	Benton, AR	28470	THU	0100	0200	Milwaukee	Milwaukee, WI	28365
MON	1630	1730	Chief Seattle	Seattle, WA	28430	THU	0230	0230	Windfarms	Livermore, Ca	28485
TUE	0001	0100	Ft McHenry/Cornerstone/ Yodar Kritch	Arbutus, MD	28370	THU	0230	0330	Up the Crick	Eugene, OR	28450
TUE	0100	0200	CO Centennial/CO Frontier Gang	Lakewood, CO	28340	THU	1930	1930	Speedway	Rainer, OR	28350
TUE	0100	0200	City of Lights	Aurora, IL	28150 CW	FRI	0001	0100	Ft McHenry/Cornerstone/ Yodar Kritch	Arbutus, MD	28370
TUE	0130	0230	Bauxite	Benton, AR	28470	FRI	0001	1000	Steamboat Plus	Shreveport, LA	28430
TUE	0130	0230	City of Lights	Aurora, IL	28720	FRI	0300	0400	Chief Seattle	Seattle, WA	28430
TUE	0300	0400	Bay Area	Hayward, CA	28475	FRI	2230	2130	Down Under (Summer in NZ is winter in US)	Auckland, ZL	28530
TUE	0430	0430	Aloha	Hilo, HA	28490	SAT	1510	1610	Louisiana Pelican	Baton Rouge, LA	28450
TUE	1500	1600	New Mexico Mud Ducks	Albuquerque, NM	28835	SAT	1730	1730	Tango	Buenos Aires, LU	28650
WED	0001	0100	Castle Craig	Meriden, CT	28375						



DX News

Mike Davidson, N5MT
(#24949)

Welcome to the Winter DX season of the 10-10 DX News.

We had a good Fall DX season and the ARRL Ten Meter Contest is in ten days. The predicted solar flux for the contest is 125-130, so get ready for more DX on Ten.

There has been 43 ARRL Ten Meter contests since I have been licensed and I have found many DX members in this contest. Because we are in the early years of Cycle 25, I expect that propagation will be better than the past five years for this contest. So please make contacts in the ARRL Ten Meter contest on Saturday and Sunday, December 10-11th

At my station, my main antenna is a multi band vertical with a resonated frequency set for Ten SSB to get full power out. When I operate FT8 on Ten, the SWR is low and the radio gets lots of power out on digital and CW to work the DX. My most recent 10-10 project has been updating my 10-10 Bar awards using data saved in my old Win1010 logging program. I recently received the 1000 Bar #1582 which means our new 1000 Bar award manager, Rob Cromer KE0MIZ #77647, is officially working on his new job. I saw in the last issue of the News that his name was printed with his email address for award applications. Thanks Rob. You can find award forms on the Website if you need to print or download. I am slowly sending in Bar applications since I have several thousand members logged over the past 40 years! My first 10-10 logging program 32 years ago was by Jim Hardy in 1990. But my first 11 years of logging QSO data was done on an IBM main frame with punch cards! So when a logging program became available, I had a lot of old QSO data to retype into the DOS program which became my standard for collecting 10-10 numbers and DX. Many years ago I received my 500 Bar and got a VP #950. In 1998 Jim converted his DOS program into a Windows program and I began logging contacts with the new Win1010 program. Now that Jim is SK, 10-10 is hoping to get access to the program to maintain its use as a 10-10 asset. Steps have been started to do that task. Let's hope this update works or else the program will probably become obsolete as new Windows updates from Microsoft could render the program useless!

All members are having fun with the rise in the solar flux due to more

sunspots! The Sun gave us a solar flux high in mid-September of 154 but the max high of 180 was in May 2022. So far we have been lucky that no Major solar flares have come off the Sun to cause a radio blackout.

All dues paid up members can submit a QSO Party log and apply for all 10-10 awards. Forms and membership renewal info are at the website. You do have to swap your 10-10 number over the air on Ten to qualify for all awards! If you are collecting 10-10 numbers, DX, Counties, Bars or you want your score to count in a QSO party, you are required to exchange your callsign, name, state and 10-10 number on Ten over the air. So record/save your QSO info in a logging program or use a paper log book. Then when you are ready to fill out the award application, move your 10-10 info from your saved place to your award form. The honor system does apply for all contacts on 10-10 awards. I keep many DX records for award validation as the Countries award manager. So look through your 10-10 log and find the required 25 different countries with a member and fill out a Countries award form. Then send it to the email address on the form. As of today, there remain 22 countries that have not been worked for 10-10 country credit of the 340 available by ARRL DXCC rules. It has been about six years since the last new 10-10 country was added to the worked list.

I just learned a member yesterday became SK during a medical procedure. Rod W7OM #72366, who is in my log many times on SSB and FT8. Here is some history:

<http://ncjweb.com/features/novdec14feat.pdf> RIP.

Countries Award: There were no Countries Award applications submitted this past quarter.

GENERAL 10-10 DX REPORTED IN THE PAST QUARTER:

3B8 Mauritius. I found no info that Mart **DL6UAA** #54230 operated 3B8MM as printed in my last DX news.

4U United Nations. The club station **4U1UN** #55555, in the New York UN building, was active this past quarter. The remote HF station was used and the Ten meter beacon was heard on CW.

4U UN Switzerland. **4U1ITU** #11111. There was a lot of ham radio from the club station. The building was supposed to be closed for maintenance but plans must have changed since 4U1ITU was on FT8 worked in the US about 1300 UTC in November.

DU Philippines. Irek **SP3SUX** #62262 was using callsign DV8/KH7EA at the end of Nov until December 3rd. In the CW WW DX CW contest his call was DX8H.

EY Tajikistan. Nodir **EY8MM** #52767 has been active about 10% of his time on Ten FT8 no SSB. Most of his HF time is on the lower bands. Good luck.

FJ St. Barthelemy. Phil **K2LIO** #7746 was back in St.Bart in mid October using his new call FJ4WEB. His new radio is an IC-7300 and a better antenna on Ten. This is a rare 10-10 location. Phil is the first member to stay on the island for long periods.

I Italy. Elvira **IV3FSG** #54292 was using FT8 a lot on Ten the past three months. It's hard to swap 10-10 info on FT8 so hope to find her on SSB this winter. LoTW.

J6 St. Lucia. Bill **K9HZ/J68HZ** #2618 was back at his summer place until November 2nd. When not in a contest he likes to operate FT8. He is back in Texas now.

JW Svalbard. Hal **W8HC** #12502 and friends operated club station JW0A from Svalbard from September 19-29th using three setups on CW, SSB and FT8.

KH8 American Samoa. Alan **K7AR** #2736, was on the island in November with W7YAQ who was not a member.

P4 Aruba. John **W2GD** #14109, was back on Aruba again for the CQ WW CW contest as P44W the last weekend in November. LoTW.

TA Turkey. Berkin **TA3J** #74303 was mostly on 12 Mtrs but also on Ten until November 13st from Yassica Island. All modes and FT8. LoTW.

V3 Belize. Scott **K5PS/V31CQ** #52535, was in the CQWW CW contest the last weekend of November and went home after the contest on Nov 28th. LoTW.

VP5 Turks' & Caicos Isl. Ron **N4KE** #5645 used callsign VP5DX from October 20-30th. The radio was only 100 watts into a vertical on SSB, CW and FT8.

VP8 Falkland Isl. Bob **VP8LP** #8854 was mostly operating on Ten SSB from August to November. No LoTW.

Z6 Kosovo. Rene **DL2JRM** #69623 was back in Kosovo using call Z68XX until November 1st when he returned to Germany. His 100 watts into a vertical were tough to hear. No info on future trips.

ZF Cayman Islands. Jim **WB2REM** #48365 is still on the big island using his ZF2OO callsign until January 2023. He was on Ten SSB and FT8 in late November. LoTW.

UPCOMING DX & NEW 10-10 ACTIVITY:

3D2 Rotuma. Tony **3D2AG** #72719 is now back on Rotuma until December 20th on CW SSB RTTY and FT8.

3Y Bouvet Island. A DXpedition to Bouvet is now planned for January to February 2023, to activate the #2 most wanted country. The only member going

is Bill **KO7SS** #8631. In 1990, Bouvet was a first time country for 10-10. This DXpedition will be an expensive trip, so take note and be ready. **This is quite rare for 10-10, so good luck.**

9M West Malaysia. Rich **PA0RRS** #24343 will be using callsign 9M2MRS from January 2 to March 27, 2023. NO SSB, only CW or FT8 around 28091. Working him on Digi and swapping a 10-10 number will take luck and effort!

CY0 Sable Island. The big DXpedition to Sable Island has been rescheduled to March 20-29, 2023. Website: www.CY0S.com. There will be two members on this trip: Bob **K4UEE** #75256 and Dan **W4DKS** #5395. Sable island is now a remote weather station for Canada and does not keep anyone on the island for WX station keeping. The ham operators are going to be able to rent Sable facilities where they can stay and operate but the cost is high! The only permanent residents on Sable are the 500 horses and seals that have to be protected from visitors. Travel to Sable is only by permission, and by an airplane landing on the beach or helicopter. Paperwork for DXCC credit has been approved by the ARRL as of today. Good Luck. LoTW.

FP St. Pierre & Miquelon Isl. Eric **KV1J** #31247 is planning on a June-July 2023 trip to operate as FP/KV1J.

HC8 Galapagos Island. James **WB2REM** #48365 and friends are planning a March 1-11, 2023 trip to the island. All bands, modes and digital FT8. LoTW.

PJ2 Curacao. Andreas **DK5ON** #54260, will be on Curacao Island from March 4-22, 2023. All modes, LoTW.

VP2M Montserrat. Thaire **W2APF** #50022 will be using call VP2MDX from January 2 to March 31, 2023.

MISCELLANEOUS ITEMS & NOTES:

TenTen Website: <https://www.Ten-Ten.org>

Propagation forecast: <http://www.solen.info/solar/>,
www.SolarHam.net and <http://ARRL.org/Propagation>.

More propagation: <http://dx.qsl.net/propagation/>.

DX Calendar: <http://www.dxwatch.com/>.

DX: <http://www.youtube.com/watch?v=k4dJcK-WVRw>.

DXCC Most Wanted at: <https://Secure.Clublog.org/mostwanted.php>.

ARRL DXCC <http://ebarc.org/pdf/dx-entity-history.pdf>.

Ham Lookup various ways:

<http://Haminfo.tetranz.com.map>.

Ham LoTW users: <http://www.hb9bza.net/lotw-users-list>.

NEW: WM7D Solar Values:

<https://www.wm7d.net/hamradio/solar/>

FT8 Fox/Hound Video:

<https://www.YouTube.com/watch?v=GcbtTKSRkus>

Download the DX'ers Handbook by Bryce Anderson K7UA/SK, at: www.K7UA.com.

Propagation: I expect the solar flux to range from 99-136 during the Winter, with a small rise of flux. The 2022 Winter Solstice is Wednesday December 21st, and winter starts for us in the northern hemisphere. The Earth is tilted as far away from the sun as possible, giving us the shortest days of the year and in the southern hemisphere, Summer starts. Cycle 25 started on November 17, 2019 and the Sun is giving us a rising solar flux. NOAA predicted a flux of 130 for 2024 but this year we have seen a high flux of 180. Sunspots are counted by looking at the Sun but solar flux is by radio at 2.8 GHz.

The 2022 monthly **maximum** solar flux: Jan was 130, Feb 130, March 151, April 166, May 180, June 149, July 176, Aug 128, Sept 154, Oct 163 and Nov 142. Average 152. The 2022 monthly **minimum** solar flux: Jan was 84, Feb 93, March 94, April 96, May 98, June 96, July 91, Aug 95, Sept 116, Oct 105, and Nov 108. **Average 98.**

On December 1st, the solar flux was 111, the A index was 24 and K index was 4. There have been many sunspots on the Sun in the past nine months with increased solar flux up 10-15+ points. The USAF solar flux forecast for December 1st to January 14th is from a high of 130 to a low of 95 with an average flux at about 113.

My Prediction: Over the next three months, the best conditions on Ten could be: Dec 06-11th; Jan 1-6th; Feb 1-6th; and March 1-6th. For the USA, expect a 65% chance of DX to Europe/Asia and 75% to S. America or Pacific. Use the beacons 28.175-28.300 MHz to find if the band is open and especially FT8 on 28074.

Three new DX members joined in Sept to Nov 2022. Sept: Andreas **DL3ABD** #78020; Oct: Yves **F5JJA** #78030; and Nov: Ray **G0LRH** #78041. The highest 10-10 issued in November was to Mike **N6ZGK** #78043.

Thanks to the Daily DX by Bernie **W3UR** #25731 and the ARRL DX Bulletins. This DX News edition is my number 128th of DXing reports for the past 32 years. DX news to: Mike Davidson, 26274 Whispering Pines Ave, Denham Springs LA 70726 USA and Email: N5MT@aol.com.

10 Meter Beacons

As 10 meter operators one should be aware that propagation beacon frequencies are coordinated.

I would appreciate a message from anyone with thoughts of activating a beacon. wi5v.be@gmail.com

73 Dennis Stice **WI5V** #35806

IARU Region 2 HF Beacon Coordinator

<https://wi5v.net/author/wi5v>

QSL Bureau News

The QSL Bureau manger, Jim Stoeber **WI9X** #49635 became a Silent Key. Contact Mel Sojka if you are interested in managing QSL cards for the 10-10 International Net.

ARTICLES

If you have a Ten-Ten related adventure/experience you think would be good to share with the other members of the Ten-Ten International organization, please send your story to editor@ten-ten.org.





Net Report

Bob Farrow, N6OPR
(#45715)

Net Report for 3rd Quarter 2022

Monday Nets

|----- 28.380 MHz -----|

DATE	TOTAL	NO 10#
4-Jul	7	1
11-Jul	11	0
18-Jul	2	0
25-Jul	23	8
1-Aug	2	0
8-Aug	7	0
15-Aug	2	0
22-Aug	4	0
29-Aug	XXX	0
5-Sep	6	1
12-Sep	19	2
19-Sep	11	0
26-Sep	17	3

Tuesday Nets

|----- 28.380 MHz -----|

DATE	TOTAL	NO 10#
5-Jul	10	1
12-Jul	13	1
19-Jul	30	12
26-Jul	21	4
2-Aug	8	1
9-Aug	12	0
16-Aug	8	0
23-Aug	13	0
30-Aug	10	0
6-Sep	9	0
13-Sep	13	1
20-Sep	15	3
27-Sep	11	1

Wednesday Nets

|----- 28.380 MHz -----|

DATE	TOTAL	NO 10#
6-Jul	13	5
13-Jul	13	2
20-Jul	21	4
27-Jul	7	0
3-Aug	9	1
10-Aug	8	0
17-Aug	9	1
24-Aug	8	0
31-Aug	4	0
7-Sep	7	0
14-Sep	7	0
21-Sep	5	0
28-Sep	10	0

Thursday Nets

|----- 28.380 MHz -----|

DATE	TOTAL	NO 10#
7-Jul	16	4
14-Jul	32	9
21-Jul	16	2
28-Jul	16	6
4-Aug	13	0
11-Aug	22	4
18-Aug	20	4
25-Aug	5	0
1-Sep	12	0
8-Sep	11	0
15-Sep	32	17
22-Sep	9	1
29-Sep	15	2

Friday Nets

|----- 28.380 MHz -----|

DATE	TOTAL	NO 10#
1-Jul	13	5
8-Jul	8	0
15-Jul	19	0
22-Jul	10	0
29-Jul	12	3
5-Aug	12	1
12-Aug	9	0
19-Aug	7	0
26-Aug	17	4
2-Sep	13	0
9-Sep	13	0
16-Sep	14	0
23-Sep	15	1
30-Sep	19	2

Saturday Nets

|----- 28.380 MHz -----|

DATE	TOTAL	NO 10#
2-Jul	8	0
9-Jul	9	1
16-Jul	9	0
23-Jul	9	3
30-Jul	5	0
6-Aug	XXX	0
13-Aug	9	1
20-Aug	6	0
27-Aug	3	0
3-Sep	7	0
10-Sep	8	1
17-Sep	9	1
24-Sep	13	2

XX NO NET CALLED

XXX NO REPORT
RECEIVED

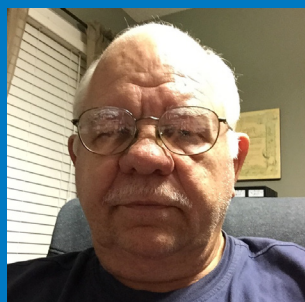
10-10 NET CONTROL STATIONS

ALL NETS BEGIN AT 1800Z

Mon (28.380)	Doc, WB6OJB	#70675	CA
Tues (28.380)	Ray, K7CWS	#50288	AZ
Wed (28.380)	Tim, K1IEB	#74965	TX
Thu (28.380)	Bob, N6OPR	#45715	AZ
Fri (28.380)	Steve, W7WHB	#74965	AZ
Sat (28.380)	Mike, KF4WKY	#70191	GA
Alternate			
Sunday	NEVER ON SUNDAY		

NET CONTROL STATIONS NEEDED

Needed: Net Control Station for the 28.380 MHz Net at 18:00 UTC Monday-Saturday. If interested contact N6OPR via e-mail: N6OPR@msn.com.



QSO Parties

Dan Morris, KZ3T
(#41015)

2022 Sprint QSO Party

October 10

TOP TEN

CALL	10-10#	CTX W	CTX WO	TOTAL
1. DL8YBM	36109	67	335	469
2. KE6GFI	72985	69	175	313
3. AB6QM	63114	46	64	156
4. N5MT	24949	2	78	82
4. WA2SUH	407	23	36	82
5. DH1PAL	69212	27	10	64
6. NA9A	31121	18	26	62
7. N1YKH	70147	15	23	53
8. KM4ODS	77504	10	27	47
9. N7UQ	72774	7	32	46
10. KD5DE	33513	16	12	44

CALL AREA ORDER

CALL AREA 0

CALL	10-10#	CTX W	CTX WO	TOTAL
KB0ARZ	48754	1	12	14
W0RTV	13962	1	0	2

CALL AREA 1

CALL	10-10#	CTX W	CTX WO	TOTAL
N1YKH	70147	15	23	53
N1API	25468	2	0	4
WA1IOG	46677	0	1	1

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2SUH	407	23	36	82

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
KM4ODS	77504	10	27	47
KZ3T	41015	9	8	26
KM4AEM	77309	0	15	15
AK4YS	75328	6	0	12
KO4OL	67730	1	7	9
WA4JA	72743	2	5	9
K4BAI	45389	0	1	1

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
N5MT	24949	2	78	82
N7UQ	72774	7	32	46
KD5DE	33513	16	12	44
KJ5RC	67815	1	35	37
KD5ILA	77652	9	13	31
KI5KOI	77853	4	1	9
AD5IF	73372	2	4	8

CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
AB6QM	63114	46	64	156

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
KE6GFI	72985	69	175	313

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
NA9A	31121	18	26	62
KC9EOQ	74609	4	3	11

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	6	0	12
AD5IF	73372	2	4	8

MOBILE

CALL	10-10#	CTX W	CTX WO	TOTAL
N1WVQ	73256	1	1	3

FRANCE

CALL	10-10#	CTX W	CTX WO	TOTAL
F6IRG	39399	9	17	35

GERMANY

CALL	10-10#	CTX W	CTX WO	TOTAL
DL8YBM	36109	67	335	469
DH1PAL	69212	27	10	64
DF3TE	69610	15	0	30
DJ6QO	30998	15	0	30

PANAMA

CALL	10-10#	CTX W	CTX WO	TOTAL
HP9SAM	75838	0	34	34

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
AB6QM	63114	46	64	156
N5MT	24949	2	78	82
WA2SUH	407	23	36	82
DH1PAL	69212	27	10	64
KM4ODS	77504	10	27	47
N7UQ	72774	7	32	46
KJ5RC	67815	1	35	37
F6IRG	39399	9	17	35
HP9SAM	75838	0	34	34
KD5ILA	77652	9	13	31
DF3TE	69610	15	0	30

LOW POWER (Cont.)

CALL	10-10#	CTX W	CTX WO	TOTAL
DJ6QO	30998	15	0	30
KZ3T	41015	9	8	26
KM4AEM	77309	0	15	15
KB0ARZ	48754	1	12	14
KI5KOI	77853	4	1	9
KO4OL	67730	1	7	9
WA4JA	72743	2	5	9
N1API	25468	2	0	4
W0RTV	13962	1	0	2
WA1IOG	46677	0	1	1

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
DL8YBM	36109	67	335	469
KE6GFI	72985	69	175	313
NA9A	31121	18	26	62
N1YKH	70147	15	23	53
KD5DE	33513	16	12	44
KC9EOQ	74609	4	3	11
K4BAI	45389	0	1	1

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
NEANDERTHAL	6	258
POSSUM TROT	4	132
STEAMBOAT	3	97
LOUISIANA PELICAN	1	82
CITY OF LIGHTS	1	62
CASTLE CRAIG	2	57
HOUSTON SHOT	1	8
GATEWAY	1	2

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
DF0IA	68914	67	335	469	DL8YBM
DK0DWK	73418	26	0	52	DH1PAL
DK0HHC	73417	26	0	52	DH1PAL
K4MN	24874	10	27	47	KM4ODS
W5RRV	42114	16	12	44	KD5DE
DL0KAC	73416	15	0	30	DF3TE

CHECK LOGS

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
WB5WAJ	26676	3	8	14	
VE3JZT	0	4	0	8	

2022 Fall CW QSO Party**October 15 - 16****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. WB6OJB	70675	6	12	24
2. WB6IZG	55393	5	9	19
3. KM4ODS	77504	1	14	16
4. AK4YS	75328	4	2	10
5. KD5DE	33513	2	3	7
5. NK9Y	37014	3	1	7
6. KZ3T	41015	1	3	5
7. WA2SUH	407	0	3	3

CALL AREA ORDER**CALL AREA 2**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2SUH	407	0	3	3

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
KM4ODS	77504	1	14	16
AK4YS	75328	4	2	10
KZ3T	41015	1	3	5

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
KD5DE	33513	2	3	7

CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
WB6OJB	70675	6	12	24
WB6IZG	55393	5	9	19

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
NK9Y	37014	3	1	7

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	4	2	10
NK9Y	37014	3	1	7

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
KM4ODS	77504	1	14	16
KD5DE	33513	2	3	7
KZ3T	41015	1	3	5
WA2SUH	407	0	3	3

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
WB6OJB	70675	6	12	24
WB6IZG	55393	5	9	19

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	4	47
STEAMBOAT	1	7

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	1	14	16	KM4ODS

2022 Fall DG QSO Party**November 12 - 13****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. W5SUM	2019	20	2	42
2. KZ3T	41015	13	9	35
3. AJ7B	7675	15	3	33
3. KM4ODS	77504	12	9	33
4. KM5EH	71103	14	2	30
5. KA7IVB	36769	13	3	29
6. KD5DE	33513	12	2	26
7. KD5ILA	77652	11	3	25
7. W2VTV	71275	9	7	25
8. K7QXG	5956	10	2	22
9. N5MT	24949	9	2	20
10. AK4YS	75328	8	1	17
10. KD2NOM	77596	8	1	17
10. N3GTY	50585	8	1	17

CALL AREA ORDER**CALL AREA 1**

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	8	0	16
NM1W	41721	6	0	12

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
W2VTV	71275	9	7	25
KD2NOM	77596	8	1	17
WA2HMM	40510	7	2	16

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
KZ3T	41015	13	9	35

KM4ODS	77504	12	9	33
AK4YS	75328	8	1	17
N3GTY	50585	8	1	17
KA5VZG	46596	5	0	10
KK4AMR	76031	2	1	5
NC4GK	77965	1	0	2

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
W5SUM	2019	20	2	42
KM5EH	71103	14	2	30
KD5DE	33513	12	2	26
KD5ILA	77652	11	3	25
N5MT	24949	9	2	20
N7UQ	72774	3	0	6
KM5FF	50356	2	0	4

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
AJ7B	7675	15	3	33
KA7IVB	36769	13	3	29
K7QXG	5956	10	2	22
W0FLZ	48658	7	1	15
WA7SKG	77548	6	0	12

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
AI9IN	76189	2	0	4

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	8	1	17

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
W5SUM	2019	20	2	42
KZ3T	41015	13	9	35

(Cont.)

CALL	10-10#	CTX W	CTX WO	TOTAL
AJ7B	7675	15	3	33
KM4ODS	77504	12	9	33
KA7IVB	36769	13	3	29
KD5DE	33513	12	2	26
KD5ILA	77652	11	3	25
W2VTV	71275	9	7	25
N5MT	24949	9	2	20
KD2NOM	77596	8	1	17
N3GTY	50585	8	1	17
N1API	25468	8	0	16
WA2HMM	40510	7	2	16
W0FLZ	48658	7	1	15
NM1W	41721	6	0	12
WA7SKG	77548	6	0	12
KA5VZG	46596	5	0	10
N7UQ	72774	3	0	6
KK4AMR	76031	2	1	5
AI9IN	76189	2	0	4
KM5FF	50356	2	0	4
NC4GK	77965	1	0	2

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
KM5EH	71103	14	2	30
K7QXG	5956	10	2	22

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	7	157
STEAMBOAT	3	94
LOUISIANA PELICAN	2	34
CHIEF SEATTLE	1	33

CHAPTER ENTRIES (Cont.)

CHAPTER	LOGS	PTS
OREGON TRAIL	1	22
CASTLE CRAIG	1	16
NM MUD DUCKS	1	4

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	12	9	33	KM4ODS
W5RRV	42114	12	2	26	KD5DE
NZ4FF	77686	8	1	17	N3GTY
NM5H	68588	6	2	14	N5MT

RF SAFETY

RF Hazards come in two varieties. One is radiation. Current FCC regulations provide standards for safe amounts. Use the worksheets and analyze your station, even if you think you may be exempt by virtue of power levels and spacing. Be sure.

A second hazard comes from direct contact with antenna elements carrying RF currents. Ground-mounted verticals and inverted Vee ends provide the greatest hazards, since both children and adults can come into contact with them – either directly or with some implement having a long metal handle.

Isolate ground-mounted verticals with fencing or other barriers which are effective especially in preventing children from touching a potentially active antenna. A vertical in or adjacent to a children's play area may mean station silence during periods when children are present: if contact is not a danger, radiation may be.

Elevate and insulate horizontal antenna ends above the level where anyone can touch them with a metal rod. Never underestimate the ingenuity of a child with a small mean streak or a large curiosity.

A Homebrew QRP 10-Meter Transceiver

In January 1989, when I was working as an RF design engineer for Magnavox (it eventually turned into Raytheon), I decided to build a QRP 10-meter transceiver for home station use. I did it during my lunch hours, and it took about 4 months.

The goals were to make it simple, but practical. I decided to make the transmitter DSB (double sideband) to eliminate a crystal filter. The output power goal was 1 Watt PEP. I also decided to make the receiver a direct conversion design. See Figure 1 for the completed unit. Note the Motorola microphone – I was with Motorola's Land Mobile Division as an RF design engineer from April 1974 through July 1988.



Figure 1. K9LA QRP Transceiver

When completed, I used it during the months of May, June and July of 1989. 1989 was around the peak of Solar Cycle 22, with propagation on 10-Meters offering many great opportunities. I worked a number of states and a handful

of countries with my little rig, undoubtedly helped by my Cushcraft 4-element 10-Meter monobander at 72 feet.

See Table I for basic performance parameters.

THE VFO

I started the entire electrical design process with the VFO. Being a direct conversion receiver, the VFO runs at 28 MHz. My first design didn't work very well – it drifted excessively and pulled about 1 kHz when going to transmit. A redesign resolved these issues. The VFO is in a shielded housing. The VFO is not temperature compensated as I intended to only use the rig at home in a controlled temperature environment.

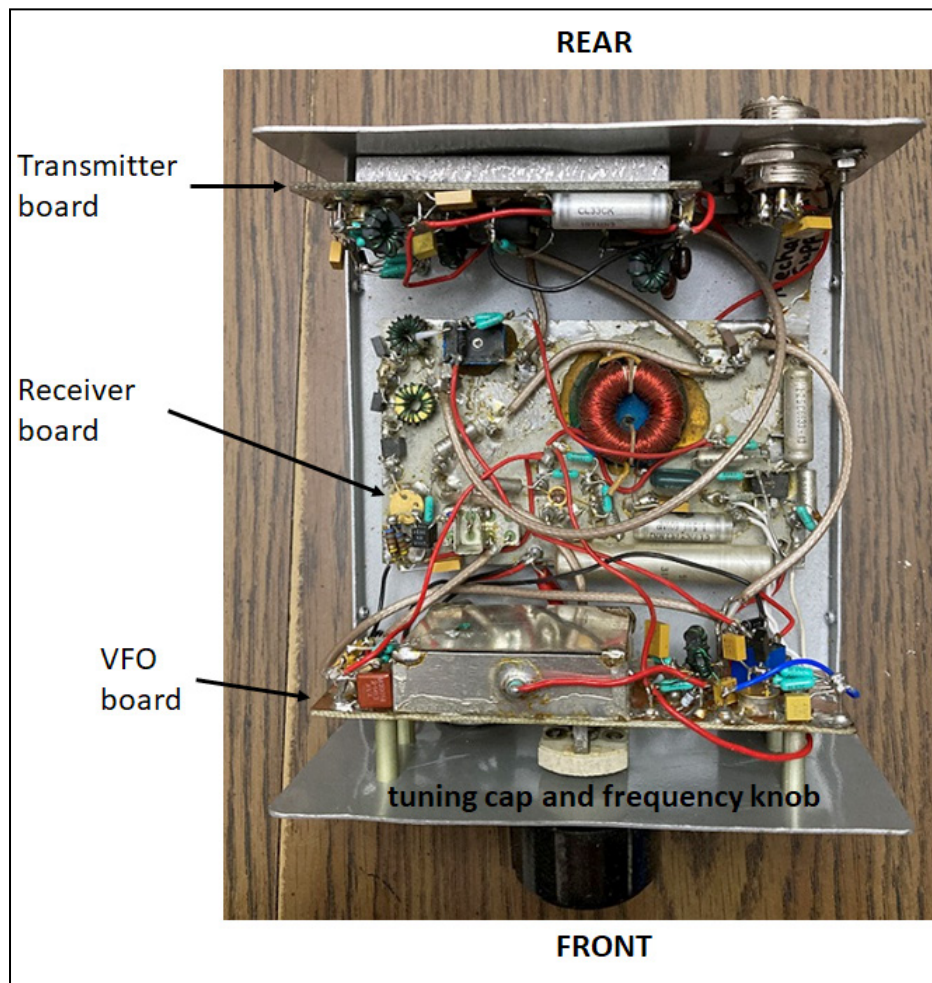


Figure 3. Inside the K9LA QRP Transceiver

THE TRANSMITTER

The design of this module was the easiest. I used a push-pull RF Power MOSFET (an ACRIAN UMIL20FT) as the final device, but I also bread-boarded two parallel BJTs (bipolar junction transistors – Motorola MRF237s) and they worked equally well.

THE RECEIVER

Initially I was worried that the receiver sensitivity wasn't good enough, but soon realized it was commensurate with the output power level of the transmitter. If I could hear a station, I had a good chance of working that station.

The biggest problem I had with the receiver was AM detection of Citizen Band signals at 27 MHz regardless of the frequency tuned to. Adding a 28 MHz band pass filter at the receiver front-end resolved this problem.

CONSTRUCTION

The design was broken down into three separate boards – a VFO board, a receiver board and a transmitter board.

In lieu of etching boards, I used a combination of dead-bug construction and small solder-down (to the copper foil on the board) insulated terminals. This technique is adequate for designs at 28 MHz (and even at higher frequencies).

FINAL COMMENTS

With Solar Cycle 25 on the rise, I rescued this rig from a dust-filled corner and hope to have fun with it in 2023 and beyond. I've even thought of adding another output stage in the transmitter to increase the ratio of QSOs to calls.

Carl Luetzelschwab K9LA #41258

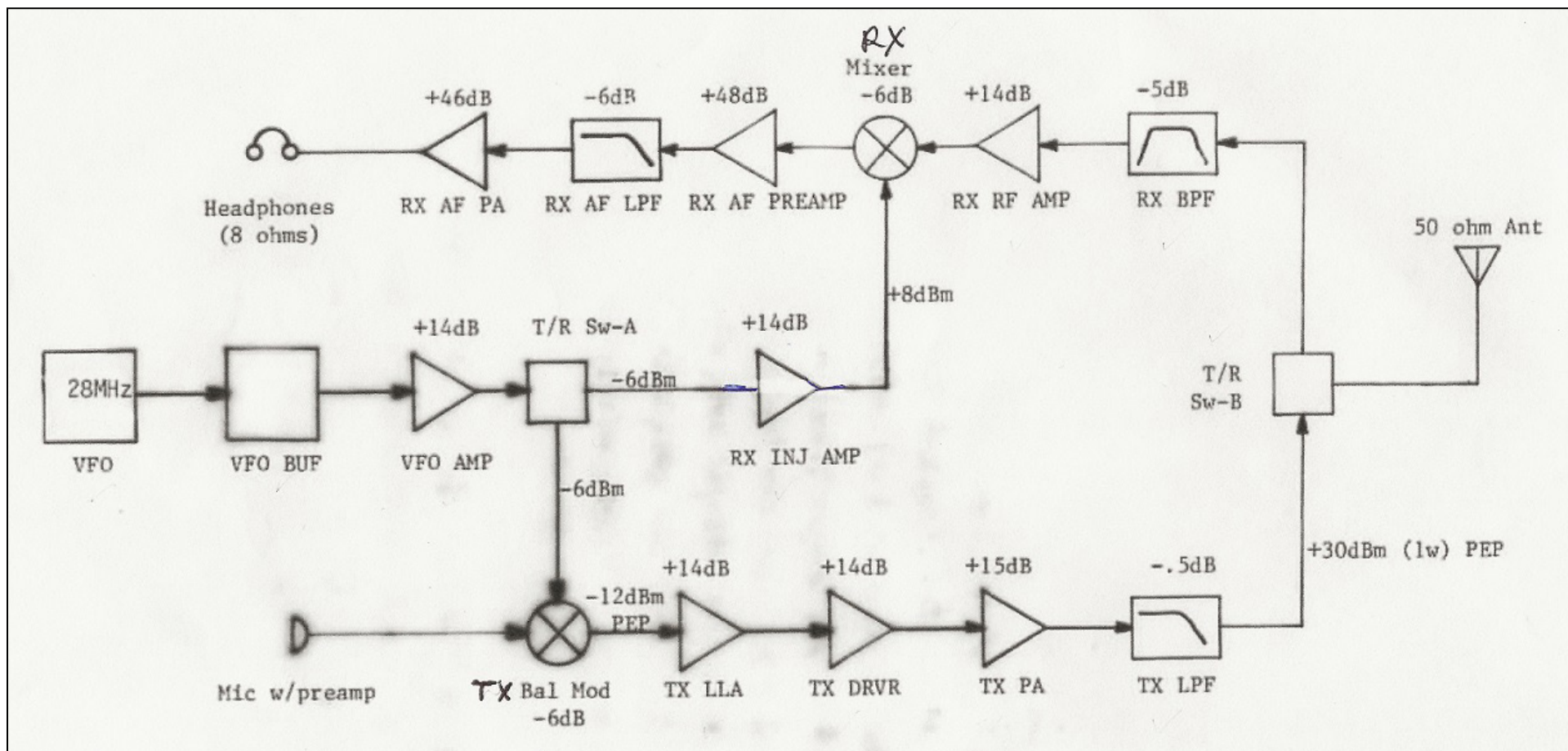


Figure 2. Block Diagram showing gains and losses of each block.

Table 1. Performance Parameters

General	
Frequency coverage	70 kHz
Weight	about 1.5 lbs.
Size	3" high x 5" wide x 6" deep
Frequency stability	<100 Hz after 5 minutes
Receiver	
Min. discernible signal	-114 dBm (2.7 kHz BW)
Current drain in receive	0.35 Amps
Rejection at 27 MHz	17 dB
AF selectivity	-6 dB @ 2.7 kHz -40 dB @ 8 kHz
Transmitter	
Output power	1 Watt PEP
IMD at 1 Watt PEP	-24 dB ref either tone
Carrier suppression	-40 dB
Harmonic suppression	-35 dB (meets FCC limits)
Current drain at 1 Watt PEP	0.52 Amps

ARTICLES

There is always a need for articles in the News. There have been a couple requests for Do-It-Yourself articles. If you have something you would like to see in print please feel free to submit it. The most popular articles seem to be those relating to antennas, DIY projects, and kit building. Send your submissions to editor@ten-ten.org.

Antenna Safety Notes

Here are a few safety tips that C. B. Cebik W4RNL, #41159 shared in a previous issue of this newsletter.

Static Build-Up: As the wind and weather pass over the antenna elements, a charge builds up. On long wire antennas, it can generate enough of a charge to draw a visible spark across a gap to ground. On smaller antennas it can create unnecessary static. The best way to avoid problems here is to be sure that the antenna is at DC ground. Some antennas are designed with a DC ground; others are not. For low impedance antennas (less than 150 ohms feed point impedance) fed with coax, the simplest way to insure a DC ground is to place an RF choke across the antenna terminals. This gives you a DC ground [path but leaves the antenna RF-hot. At 10-meters, a 100 micro-H RF choke provides

about 1800 ohms of reactive isolation, but a low resistance to charge build-up. Just be sure your coax braid is grounded somewhere along the line so that the charge has somewhere to go other than to your equipment.

Parallel feedline systems, such as all-band doublets require a different treatment, since the impedances they may see can range up to 5000 ohms and more. Here we can use high value resistors where the feedline enters the house. Run 1 MΩ resistor from each line to ground rod where the line meets the shack. It is also useful to add a knife switch or other disconnecter (with alternative contacts directly grounded) to remove the connection to the equipment when the antenna is not in use.

Tower and Coax: Some studies have shown that the bulk of lightning current travels in the shield of the coax. A considerable voltage difference can exist between a tower leg and the coax braid if the first connection between the two is at the bottom of the tower. You may want to consider breaking your coax near the top of the tower, having one section to the antenna with the flex loop to accommodate rotation and another section down the leg of the tower. Securely fasten a plate to the tower leg and use a double female connector with chassis nuts (often called a bulkhead connector) to join the two coax lengths. This gives you a connection between the coax braid and the tower leg. This is not the only ground you should use, but an extra one.

Total Disconnection: During violent electrical storms, surges can enter the station equipment from several sources: the antenna lines, the AC power lines, and ground. When dealing with surges, do not think in terms of complete electrical paths. A surge can charge components, cases, and chassis, and create high voltages across components that are designed for low voltages. Hence, during violent storms, do a complete disconnect.

Outdoors, disconnect all antenna feed lines and reconnect them to a ground rod in the station ground system. Indoors, disconnect antenna feedlines from the station equipment. Unplug all equipment – or that power strip you use as a master switch. Most power switches are single pole, so one must unplug in order to break the neutral and ground line paths along which surges can travel. Also disconnect the station equipment from the master ground lead to the outdoor ground rod system. If you do some careful planning, you can make all these moves in under a minute. Just be sure that all the connections are accessible and require no tools to connection and disconnection.

While it may be true that a direct strike is rare, most damage occurs from nearby strikes that place heavy voltage surges on power lines, antennas, and the ground. You can do a lot to keep them outdoors, where they belong.

10-10 SCHOLARSHIP FOUNDATION SUPPORTERS

We encourage all of our members to support the 10-10 International Net Scholarship Foundation. Our goal has always been to fund our scholarships entirely through member donations. At the Scholarship Foundation meeting in June, the Foundation Board voted to guarantee the funding for three \$2000 scholarships to be awarded in 2023. The Foundation was created in 2001 and is a qualified 501(c)(3) tax exempt organization and contributions are tax deductible. Why not consider a donation as a Chapter or an individual in memory of a fellow ham or loved one. This quarter a donation was received from Larry Banks, W1DYJ, #66485 in memory of his father Sam Banks, WA1INL. The following people donated in the memory of my father Abraham Berger, W2BLH, #33333: Matthew Berger, K2MSB, #60606; Robert Berger, WA2EJO, #27615; Andy Kirschenbaum, WA2CDL, #3087; Larry Berger, WA2SUH, #407 and Michael Berger (new call W2BLH). If you have an employer matching program, please let us know. If you haven't donated before, we want you to know that all donations are appreciated and they do add up. At the time you make a donation to your favorite charity, please consider a donation to the 10-10 Scholarship Foundation

If you make a donation of \$25 or more you are eligible to receive one of the historic 10-10 pins. As more and more members have told me not to send a pin and want the maximum amount of their donation to go to the students, if you have made a qualifying donation and would like a pin, please contact me at wa2suh@aol.com. To pay by credit card see payment information on our website (www.ten-ten.org). or send your check to me or the Data Manager. Our addresses can be found on Page 29.

The members listed below became 10-10 Scholarship Foundation Supporters during the months of September, October and November and we appreciate their support.

Platinum (\$1000 or more)

N5MT Michael Davidson 24949

Gold (\$500 to \$999)

None

Silver (\$100 to \$499)

KD5HIP John Zumbro 71476

Bronze (Up to \$99)

WA2SUH	Larry Berger	00407
WA2CDL	Andy Kirschenbaum	03087
WA2EJO	Robert Berger	27615
WA7ONE	Ronald McCombs	29018
K2MSB	Matthew Berger	60606
W1DYJ	Larry Banks	66485
KE6ZPF	Kirby Bay	70187
KF6JBQ	Nancy Bay	70186
W2BLH	Michael Berger	

10-10 SCHOLARSHIP APPLICANT INFORMATION

Each year the 10-10 International Net, through our non-profit corporation, the 10-10 Scholarship Foundation, funds three \$2000 scholarships, which are administered on our behalf by the Foundation for Amateur Radio (FAR). It is suggested that every 10-10 member encourage qualified college-bound amateur radio operators to take advantage of this opportunity. Over the past 35 years, 10-10 has funded 133 scholarships valued at \$177,000.

Applicants must be licensed amateurs. There is no restriction on the course of study, but applicants must intend to seek at least an Associate Degree from a college or university. Non-U.S. amateurs and those seeking graduate degrees are also eligible, as well as students who study outside the United States. Initial applications must be received by FAR prior to April 15th of each year. Download an application from the

FAR website: <http://www.farweb.org> or request an application from:

FAR Scholarships
P.O. Box 911
Columbia, MD 21044-0911

TEN-TEN AWARDS

To apply for any 10-10 Award, paid-up membership is mandatory. You are not required to send in proof as the Awards Manager has the current membership database. All contacts made for any award must be legal 10-10 contacts (a full exchange of Call, Name, QTH and 10-10 number from BOTH members). An application listing the rules for each award is available from the appropriate Awards Manager listed at the end of the award listings. Please send your request with a #10 (business size) envelope, self addressed and stamped with one unit of first class postage (or enclose one IRC for GB Award), to the Award Manager for the Award you are interested in obtaining. Please no phone calls to Award Managers for an application or list of rules. Contact requirements and rules for all Awards are available on the 10-10 website at www.ten-ten.org

TOP TEN HONOR ROLL

No.	CONTACTS	CALL	10-10#
1.	24600	WA5JDU	3017
2.	11700	K0PV	9902
3.	11700	N5XZ	4530
4.	11300	DL8YBM	36109
5.	10600	N1API	25468
6.	10000	K6PZE	1341
7.	9800	N5DAS	35877
8.	8800	AC6FU	10937
9.	8600	N6OPR	45715
10.	8200	K5FBS	48461

TOP TEN CLUB

No.	CONTACTS	CALL	10-10#
1.	10100	WD0SFT	37933
2.	4400	K6MQ	K6MQ
3.	3400	DL0X	DL0X
4.	2100	W8PGW	W8PGW
5.	1800	W1NRG	W1NRG
6.	1200	NM5MD	NM5MD
7.	1100	W4MNM	W4MNM

1000+ MILESTONE BARS

1000 BAR

NO.	CALL	10-10#
1582	N5MT	24949

1100 BAR

NO.	CALL	10-10#
1217	N5MT	24949
1218	KA9JCP	50609

1200 BAR

NO.	CALL	10-10#
1200	N5MT	24949
1201	KA9JCP	50609

3300 BAR

NO.	CALL	10-10#
252	WA2SUH	407

4000 BAR

NO.	CALL	10-10#
171	KZ3T	41015

W.A.S.

NO.	CALL	10-10#
2492	KC4RZ	47364

First COUNTIES

NO.	CALL	10-10#
465	N5MT	24949

AWARDS MANAGERS

BAR 100-900 ..	Dan Morris, KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	dbmorris315@gmail.com
Bar 1000+	Rob Cromer, KE0MIZ #77647	12932 Palamino Place, Wellington, CO 80549	(970) 692-4421	rccromer@rccomps.net
VP Bar	Thomas Cole, KI5ELV #77743	3238 Wagner St., Shreveport, LA 71108	(318) 617-0562	ki5elv@yahoo.com
VP WAS	Charles (Chuck) Dockery, N7UQ #72774	112 S. Rolling Meadows Dr. Wylie, TX 75098	(469) 829-5462	chuck@n7uq.com
VP Lucky 13 ..	Dan Morris KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	dbmorris315@gmail.com
WAC	Kevin Gilot, NZ1I, #72759	50 Cindy Lane Mystic, CT 06355-1404	(860) 572-6086	kevinemt1d@tvconnect.net
Counties	Mark Tatlor Murphy, KC4HIT #57488	PO Box 936, Conover, NC 28613-0936	(336) 561-3630	kc4hit@gmail.com
Countries	Mike Davidson, N5MT #24949	26274 Whispering Pines Ave, Denham Springs, LA 70726	(713) 417-4727	N5MT@aol.com
CW	Lee Zalaznik, KI6OY #50948	334 Olivina Ave., Livermore, CA 94551-6137	(925) 455-0361	lee.zalaznik@sbcglobal.net
Digital	Mel Sojka, KD5DE #33513	353 Atlantic Ave., Shreveport, LA 71105-2909	(318) 286-2963	kd5de@nwla.com
Mobile	Paige Butler, W0FLZ #48658	21922 36th Ave NW, Stanwood, WA 98292	(425) 308-5561	w0flz62@gmail.com
OM/XYL	Marcus Lieberman, KM5EH #71103	2300 Hurley Drive NW, Albuquerque, NM 87120-1013	(505) 836-1724	buckml@lobo.net
WAS	Eva Donaldson, WB0CON #53964	12933 W Montana Drive, Lakewood, CO 80228-4244	(303) 989-0475	wb0con@comcast.net
WPX	Ed Bryant, KM5FF, #50356	9001 Sunbow Ave SW, Albuquerque, NM 87121-8851	(505) 934-2100	elbble@gmail.com
GB Counties ..	Mike Crawshaw, G4BLH #18446	35 Edward Drive, Clitheroe, Lancashire, England BB7 1EF No Phone		g4blh@zen.co.uk

An Update on Cycle 25

In my other article in this issue (my homebrew 10-meter QRP transceiver), I mentioned that Cycle 25 is on the rise. Let's take a deeper look at Cycle 25's progress.

Historical data is always a good place to start. Figure 1 shows the maximum smoothed sunspot number for all previous twenty four solar cycles. The major take-away from this plot is the fact that the data is cyclic in nature.

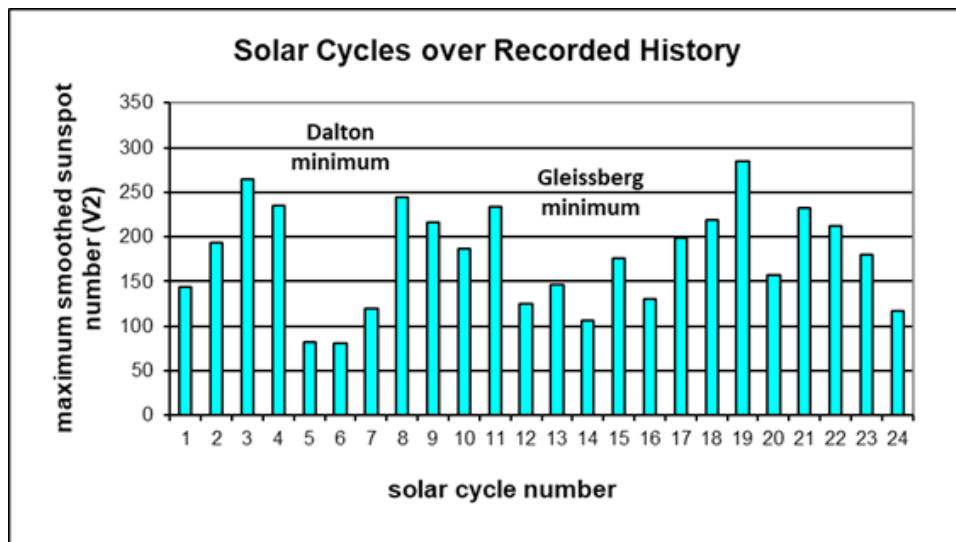


Figure 1. Historical Solar Cycle Data

We've gone through what appears to be three periods of big solar cycles – Cycles 1-4, Cycles 8-11 and Cycles 17-23. Note that our lifetimes were in the last period of big cycles. We had great opportunities on the higher HF bands: on 15-meters, on 12-meters and especially on 10-meters (and even 6-meters!).

We've also gone through two periods of small solar cycles – Cycles 5-7 and Cycles 12-16. If this cyclic trend continues, it looks like Cycle 24 has entered us into a third period of small solar cycles. By the way, Cycle 24 was the smallest

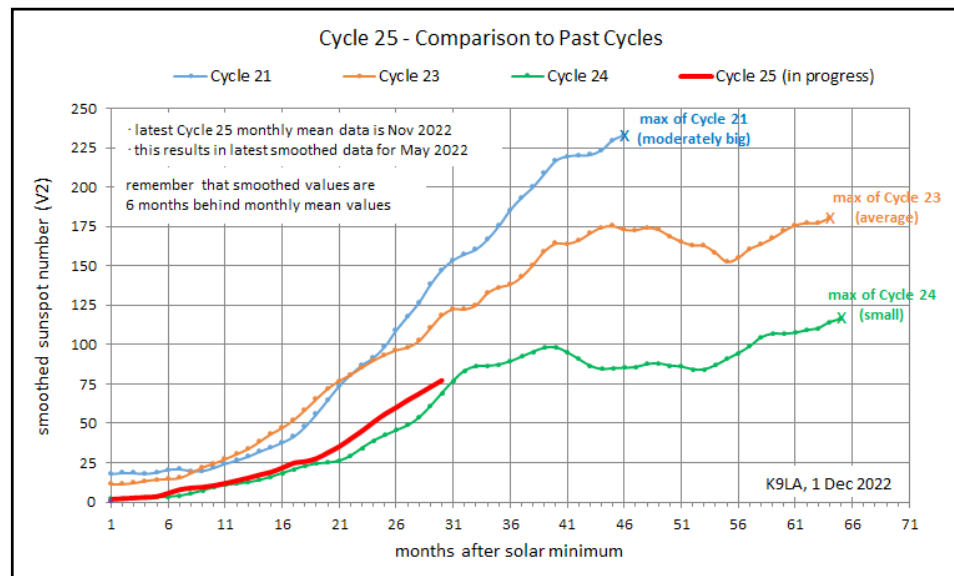


Figure 2. Cycle 25 Progress

in our lifetimes and the fourth smallest in recorded history.

Now let's look at how Cycle 25 is doing, and compare it to Cycle 24 (a small cycle), Cycle 23 (an average cycle) and Cycle 21 (a moderately big cycle). Figure 2 shows this data. We now have 30 months (two and a half years) of smoothed sunspot number data for Cycle 25.

So far, Cycle 25 (the thick red curve) appears to be best tracking the small Cycle 24. But that doesn't necessarily mean that it will end up as a small cycle. There's still time to have an increase in activity and get it up to an average cycle. All we can do is wait to see what happens.

Two final comments. First, there are more than 50 predictions for Cycle 25, ranging from a low cycle to a cycle rivaling Cycle 19 (the biggest in recorded history – see Figure 1). What this tells us is that we don't fully understand the solar cycle process. Second, sunspots themselves (and 10.7 cm solar flux) do not have anything to do with the ionization process of the F2 region (the region of the ionosphere that is most responsible for our long-distance contacts). The true ionizing radiation of the F2 region is EUV (extreme ultra-violet) radiation at very short wavelengths (roughly 10-100 nm). Sunspots and 10.7 cm solar flux are but proxies for EUV.

Carl Luetzelschwab K9LA #41258

Beta Coils and Hairpins

Editor's note: This article is a reprint of an article done by L.B. Cebik, W4RNL (SK), #41159 in a previous issue of this newsletter.

In a number of columns, I have mentioned the beta match. Let's take a brief look at what it is and what it does.

The beta match appears to be simply a small coil or hairpin placed across the terminals of an antenna, most often a Yagi. Some folks mistake the coil for an RF choke, while others mistake the hairpin for a short circuit.

Actually, the beta coil or hairpin is one part of an impedance matching circuit, where the remaining elements are invisible, if you do not know what to look for. Many Yagi antennas have feedpoint impedances in the 20 to 35 Ohm range, somewhat low for feeding directly with coaxial cable. We need to raise the impedance to 50 Ohms – and that is what the beta match system does.

The coil is not the only element in the circuit. There is also a capacitor – or more correctly, some capacitive reactance. We get that part of the circuit from the antenna element itself.

Figure 1 shows how we move from a resonant driven element to a beta match. Let the resonant antenna impedance be low, say about 25 Ohms. If we shorten the element, the resistance does not change significantly, but the antenna

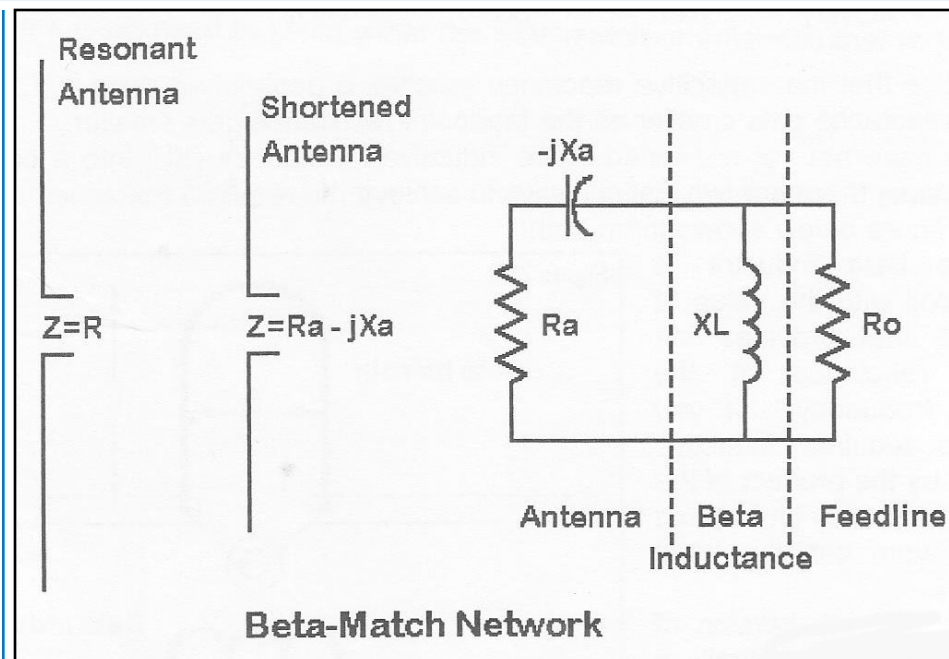


Figure 1. Beta-Match Network

becomes capacitively reactive, as the middle part of the figure shows.

If we shorten the element by the right amount, we get the right capacitance reactance in series with the antenna resistance to go together with an inductance across the coil to make an L-circuit. An L-circuit is one of the fundamental impedance transformation circuits, and in this case, $-X_a$ and X_L together change the 25-ohm antenna resistance to 50 Ohms.

We can calculate the needed values if we know the antenna feedpoint resistance (R_a). (We know the coax has a characteristic impedance (R_o) of 50 Ohms.) First we calculate a value called "delta" by some and "working Q" by others. $\Delta = \text{the square root of } [(R_o/R_a)-1]$. Now we can easily calculate the necessary values of capacitive reactance in the antenna ($-X_a$) and of inductive reactance to place across the terminals (X_L). $X_a = \Delta \text{ times } R_a$. $X_L = R_o / \Delta$.

Since these values are given as reactances, you need to convert the inductive reactance into a component value. The capacitive reactance will be developed by simply shortening the antenna element until the beta match gives us 50 Ohms.

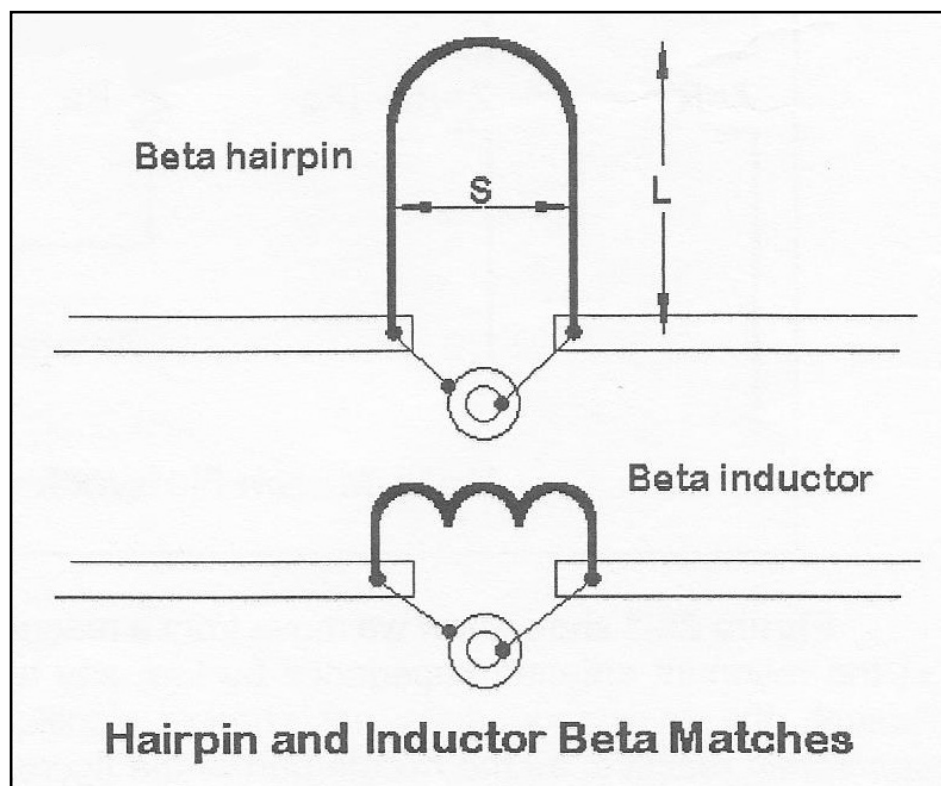
For reference, here is a small table of values we commonly encounter with beta matches with 50-Ohm coax for various values of antenna feedpoint resistance (R_a):

Table 1. Common Beta Match Values with 50 Ohm Coax

Ra (Ω)	33	25	17
Delta	0.7	1	1.4
Xa (Ω)	23.6	25	23.6
XL (Ω)	70.7	50	35.4

Notice that the capacitive reactance reaches a peak when $\Delta = 1$, while the inductive reactance gets smaller as the feedpoint resistance gets smaller.

We have not yet converted these inductive reactances (XL) into a component value, because there are two distinct ways to achieve the required reactance across the coil. Figure 2 shows them both.

**Figure 2. Hairpin and Inductor Beta Matches**

The beta inductor is simply a coil with the value of inductance that provides the inductive reactance at the operating frequency. If you divide the required inductive reactance by the product of the operating frequency (in Hz) and twice pi, you get the right inductance.

The hairpin version of the beta inductor is actually a small shorted stub of parallel transmission line. Rather than go through the calculation procedure, I shall simply once more recommend that you obtain a recent copy of HAMCALC, a suite of handy ham calculation programs in GW Basic. You can get a copy for \$7 to cover CDROM and mailing costs from George Murphy, VE3ERP, 77 McKenzie Street, Orillia, ON L3V 6A6, Canada. Among the selections on the disk is an excellent program that will calculate the dimensions of a hairpin for the match. It was written by Thomas Cefalo, Jr., WA1SPI. The program will also tell you the equivalent inductance in case you want to wind a coil. Other programs in HAMCALC will help you wind an accurate coil.

Many antenna builders use the experimental technique of adjusting the driven element for a beta match. After calculating the beta coil or hair pin, they install it and then adjust the element length for a low SWR. Antenna modelers tend to determine the required element length in advance from their software and save some time fumbling for the right element length.

Either way, the beta match results in a very low loss match. For inductor Qs over 100 (easily to obtain, but some maintenance is required to maintain the Q), losses will be well under 1% -- and even less for the hairpin.

If you like to build antennas, you should become familiar with the beta match. Some folks actually avoid the beta match because it is "too simple to really work." However, it does work, and very well indeed for antennas with moderately low feedpoint impedances. Since there are easy-to-use utility programs for calculating everything you need, there is no need to avoid either the beta match or antennas that require one.



Meet The Volunteers

A year-long event to find and make contact with all of the people who devote time to keep 10-10 an active organization!
The goal? Make contact with each of the following volunteers during 2023

AJ7B, Randy.....	Editor	N1API, Al	Committee Member
G4BLH, Mike	Awards - GB	N3GTY, Bill	Committee Member
K1IEB, Tim.....	Net Control	N5MT, Mike.....	Awards - DX
K5BKT, Peg	Committee Member	N6OPR, Bob.....	Director
K5PLH, Phyllis.....	Historian	N7UQ, Chuck,	Awards - VP WAS
K6RDK, Dave	Data/ Membership Manager	N7YG, Jeff	IT Manager
K7CWS, Ray	Net Control	N9AC, Gerald	W6OI Trustee
KC4HIT, Mark	Awards - Counties	NF0J, David.....	President
KD2NOM, Mark	Director	NP2MR, David.....	Committee Member
KD5DE, Mel.....	Past President	NS6X, John	Committee Member
KE0MIZ, Rob	Awards - 1000+	NZ1I, Kevin.....	Awards – WAC
KF4WKY, Mike.....	Net Control	VA7GY, Garry	Committee Member
KG5RJ, Greg	Committee Member	W0FLZ, Paige.....	Award - Mobile
KI5ELV, Thomas	Awards - VP Bars	W5DJT , David	Committee Member
KI6OY, Lee	Awards-CW	W5SUM, Ronnie.....	Vice President / Secretary
KJ5SZ, Hugo	General Counsel	W7WHB, Steve.....	Net Control
KM4ODS, George	Director	W9HT, Joshua	Committee Member
KM5EH, Marcus	Director	WA2SUH, Larry	Director
KM5FF, Ed.....	Awards-WPX	WA4KUP, Brad	Committee Member
KR7RK, Keith,	Treasurer	WB0CON, Eva.....	Awards – WAS
KZ3T, Dan.....	QSO Party Manager	WB6OBJ, Arnold.....	Net Control

RULES FOR THIS EVENT AVAILABLE AT WWW.TEN-TEN.ORG IN THE QSO PARTY HANDBOOK

THE AMATEURS CODE by Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

CONSIDERATE..... never knowingly operating in such a way as to lessen the pleasure of others.

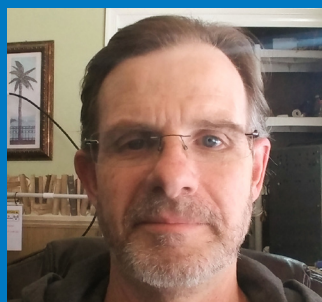
LOYAL..... offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE..... with knowledge abreast of science, a well built and efficient station, and operation beyond reproach.

FRIENDLY..... with slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED..... Radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC..... with station and skill always ready for service to country and community.



Silent Keys

Mark Steele, KD2NOM
(#77596)

It is with sorrow that we note the following Ten-Ten members who are now Silent Keys. We extend our sincere condolences to the families and friends of those SK members whose calls and Ten-Ten numbers will forever be kept in the records of the Ten-Ten Net.

10-10#	Call	Name - City, State
01358	W1TBF	F. Roger Butterfield - Portland, ME
01361	WB0AWB	Edward R. Earley - Strasburg, CO
01383	W4EXG	Horace Goins, Jr. - Cleveland, TN
01414	WB2RXG	Edward J. Pecan - Freeport, NY
01473	W1SCH	John J. Di Troia - Saugus, MA
01637	N6YL	Carol L. Bourne - Orange, CA
02649	WA3QGO	Daniel T. Pawlowski - Greenwood, DE
02933	WB0CCF	Norman R. Kahdeman - Hillsboro, MO
05417	WB5FDP	Ricky L. Mobley - Little Rock, AR
07086	K1EGD	Frederick C. Dawson - Cranston, RI
09412	WA8WV	David L. Ellis - Charleston, WV
10634	NE9R	Glen E. Hommert - Granite City, IL
11215	W0JGH	Allen H. Poe - Kirkwood, MO
11969	K0BUD	Michael R. Sigelman - Golden Valley, MN
12054	AF1HS	Arthur J. Fregeau - North Haven, CT
12884	WB9TNQ	Martin C. Schwamberger - Calumet, MI
13209	WA4PNI	James E. Ray - Etowah, TN
13968	K0MST	Keith P. Schmidt - Long Grove, IA
15707	KD4K	Anthony C. Cash - Cumming, GA
16852	WB3HDJ	Nicholas Lorson - Enfield, CT
19242	KB4PY	Paul R. Hoffmann - Decatur, AL
20559	AK1N	Joel A. Wilks - East Hampton, CT
26298	WA4WYE	Carroll E. Smith - Simpsonville, SC
26737	N4CCJ	Donald J. Conrad - Mount Washington, KY
28018	N9ASC	William C. Seaborn - The Villages, FL
28391	KA5FPT	Paul F. Cecil, Jr. - DeSoto, TX
28532	K2MHE	Lawrence E Mitchell - Traverse City, MI
29164	W9REA	Richard E. Allman - Scottsburg, IN
29164	W9REA	Richard E. Allman - Scottsburg, IN
31252	WB3S	Robert B. Cecil - Christiansburg, VA
32054	KE4HW	George Liepins - Fayetteville, NC
32082	KC4TT	Perry C. Hindman - Chatsworth, GA
32277	KD5AY	James A. Harris - Maypearl, TX
33516	K9MI	Michael D. Brown - Bristol, TN
35153	NA9X	Donald F. Birk, Sr. - Forsyth, MO
36524	N8EEA	Russell W. Anderson - Livonia, MI

10-10#	Call	Name - City, State
37064	N9ACD	Richard R. Wright - Avon, IN
37439	WB3AMR	Charles H. King - Greensburg, PA
38667	KA1NX	Nicholas R. Raffaely - Orange Park, FL
39004	W7DR	Daniel H. Ramsey - Marysville, CA
39653	W5DAD	Clarence N. Campbell - Burkburnett, TX
39843	KD9KN	Frederick W. Shaff - Sycamore, IL
41249	NF9N	David F. Brasel - Yorkville, IL
43313	N9AVY	Jerry F. Heien - Marengo, IL
43313	N9AVY	Jerry F. Heien - Marengo, IL
43348	KA9WQJ	Norman E. Leach - Connersville, IN
43697	N5LEV	Otis E. Brasfield, Jr. - Odessa, TX
44073	N8IMU	Harold R. Bekkala - Laurium, MI
44871	KI5CV	Calvin P. Huggins - Normangee, TX
45210	KA1LDS	Dorothy J. Burden - Stafford, VT
45248	KC1ZI	James Worrell - Dorechester, MA
45486	KE4AH	Alan E. Hensley - Moulton, AL
45991	W3DCL	James L. Biddle, Sr. - Marietta, OH
46453	KB4BYZ	Ronald C. Mc Intosh - Columbus, GA
47326	N4RZP	Russell H. Kidwell, Jr. - Reedville, VA
49340	N5NHY	Esther Sooter - Dallas, TX
50283	KB7GAI	Walter J. Wegrzyn - Tucson, AZ
51278	K1VNA	Hamilton H. Webb - Claremont, NH
52050	KG7DR	Vernon C. Buckley, Sr. - Klamath Falls, OR
52377	K3JLY	Robert A. Speakman - Felton, DE
53349	KA1JDY	Robert R. Archambault - Chicopee, MA
53454	W3VIA	William R. Via - Baltimore, MD
54457	N4YA	Christopher L. Wynn - Douglasville, GA
54531	W2OFB	Joseph R. Monego - Bushnell, FL
55918	WD9FRH	Brian F. Roosa - Clarksville, TN
56067	N4ZCG	Fred Deem III - Fayetteville, NC
57410	W4HF	Robert N. Robbins - Wilkesboro, NC
61823	AJ4BG	James E. Hansen - Pensacola, FL
62434	KD1RQ	Laurence G. D'Addario - Plantsville, CT
63019	W3SYR	Robert L. Quinn, Sr. - White Oak, PA
63781	W7SMR	Richard K. Bass - Milwkie, OR
63797	AA7NI	Dick Wheelock - Chehalis, WA
63797	AA7NI	Dick Wheelock - Chehalis, WA
63832	KB0GBT	David B. Anderson - La Vista, NE
64517	AA3OM	Elliott T. Westberry - Bel Alton, MD
65125	AD4R	Reuben E. Thornton III - Eclectic, AL
65573	K5YG	William E. Musa - Ocean Springs, MS
68413	K4JJR	Jim Russo - Nokesville, VA
68837	K5GUY	Guy C. Eidson - Okmulgee, OK
70364	WS4G	Peter T. Brunet - Georgetown, TX
70842	KC5WPJ	John M Van Westen - Alamogordo, NM
71145	AC5JQ	Ronald W. Fury - Stillwater, OK

10-10#	Call	Name - City, State
71145	AC5JQ	Ronald W. Fury - Stillwater, OK
71342	KE4KLD	William B. Sowers, III - New Kent, VA
71783	K5SAL	Salvatore Perrone - Baker, LA
72262	W1WAM	William A. Marchand - New Hartford, CT
72840	WA2ZNC	Leonard M. Gessin - Honeoye, NY
76378	N0WNB	Larry C. Damouth - Carlyle, IL
76658	N7SWT	Steven W. Troyer - Sublimity, OR
77694	W5RGS	Ronald G. Stroope - Stonewall, LA
77776	N5LDF	Larry Foster - Benton, AR

Thanks to Lee - K2HAT - #76138 for his efforts in helping me keep the sk column as up to date as possible.

Mark 73, KD2NOM #77596

2023 Ten-Ten QSO Party Schedule

Event	Dates	Postmark
Winter Phone	Feb. 4-5	Feb. 13
Spring Digital	April 29-30	May 8
Spring CW	May 6-7	May 15
Open Season	June 3-4	June 12
Weak Signal	July 8-9	July 17
Summer Phone	Aug. 5-6	Aug. 14
Sprint	Oct. 10	Oct 18
Fall CW	Oct. 21-22	Oct. 30
Fall Digital	Nov. 11-12	Nov. 20
Anniversary (61)	Jan 1 - Dec 31	Jan 8, 2024
Meet the Volunteers	Jan 1 - Dec 31	Jan 8, 2024

WOULD YOU LIKE TO JOIN 10-10?

Here is what you need:

1. You must hold a valid amateur operator license.
2. Your valid amateur operator license MUST authorize or qualify you for unsupervised transmitting operations in the ten meter amateur band under your own personal call sign.
3. You must make contact with ten members of 10-10 and submit a log listing all contacts, their 10-10 number, call sign, name (as received on the air), date of contact, and QTH (state/province/country). The contact form and membership application is provided on the page that follows.
4. You must remit dues for one or more year's full membership. Fee schedule and payment information can be found in Section 2 of the page that follows.

TYPES OF MEMBERSHIPS

To become a member either fill out the form on the following page and mail to the Data Manager at the indicated address or go on-line to the 10-10 web page, www.ten-ten.org and follow the links from 'membership' to 'application' and select membership category.

Primary Membership

Primary membership is available with yearly dues, although there is a special incentive available when you pay for three years at once.

Family Membership

Family membership consists of a primary member and one or more family members who qualify as a 10-10 member (has made the necessary 10 contacts) and who reside at the same location and postal address. Family memberships run concurrently with that of the primary member. Add \$5.00 for each additional family member for each year. Only the primary member will receive a copy of the 10-10 News.

Life Membership

Life membership is available and may be paid in one lump sum or spread across two or three years. For information refer to the "Life Membership Application" form on the web or contact the 10-10 Data Manager.

Senior Life Membership

Senior life membership is available to anyone who is currently 65 years of age or older. Payment can be made as one lump sum or within a one year period. For information refer to the "Life Membership Application" form on the web or contact the 10-10 Data Manager.

Family Life Membership is no longer available

Club Membership

Club membership is available to any Amateur Radio Organization which holds a valid Amateur Radio License. Application must be made by the club trustee. Dues are the same as the Primary member. No family or life memberships are available. Clubs have all the same rights and privileges as primary members except the right to vote in elections.

Electronic Membership

Electronic Membership is available to anyone who qualifies for any of the types of membership listed previously. Electronic membership means that all communications, including the 10-10 NEWS, from 10-10 to the qualifying member will be conducted via email distribution. The exception to this policy is when a member qualifies for a certificate from either one of the various QSO Parties or from one of the Awards programs.

MEMBERSHIP RENEWALS

Either fill out on the following page the top half of Section 1, including your 10-10 number and Section 2 and mail to the Data Manager at the indicated address or go on-line to the 10-10 web page www.ten-ten.org and follow the links from 'membership' to 'renewals' and select the membership category.

DATA MANAGER SERVICES

Call/Name/Address Changes

All changes are to be sent to the 10-10 Data Manager. Please include your address label (or a copy) with necessary corrections. This also can be accomplished at www.ten-ten.org using the membership/update link.

All payments may be made by Check, or Money Order. Due to banking regulations Credit Cards cannot be accepted for merchandise. Membership Services and Scholarship Donations can be made via credit card using the secure shopping cart at www.ten-ten.org

Mail to:

Data Manager, 10-10 International Net, Inc.
1349 Vernon Terrace
San Mateo, CA 94402-3331

SCHOLARSHIP DONATIONS

Donations to the 10-10 Scholarship Foundation are encouraged by our members to help fund three \$2,000 10-10 Scholarships that will be awarded next year. For donations of \$25 or more you are eligible to receive a current year's lapel pin as a thank you gift. To pay by credit card, see the payment information on our website (www.ten-ten.org). Your check should be made payable to the 10-10 Scholarship Foundation and sent to the Data Manager (address shown above) or the Scholarship Manager:

Larry Berger, WA2SUH
10-10 Scholarship Manager
9 Nancy Blvd.
Merrick, NY 11566-3119

TEN-TEN QSO PARTY RULES

5.2 10-10 QSO PARTIES

10-10 QSO Parties are events that are held for fun and to meet old, new and prospective members around the world. The rules listed here are for all general QSO parties. The Spirit of 76 and Open Season QSO Parties are specialty events and do have additional rules. The Anniversary and Meet the Volunteers are year long contact events.

5.2.1 WHO IS ELIGIBLE?

QSO Parties are open to all amateurs with operating privileges on the 10 meter band, however, logs will be accepted only from active members as of the date of the event with the following exception: Open Season event logs will be accepted from all amateurs. Other logs received will be handled as check logs. Check logs are used to validate (check) other logs, but do not qualify the sender for any awards. A QSO Party contact log submitted by an Amateur that intentionally submits erroneous contact information to cause errors on membership applications and awards will be considered an invalid log. Ten-Ten will not accept any log of contacts from an Amateur who had his or her membership/1010 number revoked.

5.2.2 WHEN ARE THE QSO PARTIES?

There are currently nine QSO Parties held throughout the calendar year:

Winter Phone - held on the first full weekend in February

0001 UTC Saturday through 2359 UTC Sunday.

Spring Digital - held on the last full weekend in April.

0001 UTC Saturday through 2359 UTC Sunday.

Spring CW - held on the first full weekend in May.

0001 UTC Saturday through 2359 UTC Sunday.

Open Season (PSK) - held on the first full weekend in June

0001 UTC Saturday through 2359 UTC Sunday.

Weak Signal - held on the second full weekend in July - 0001 UTC Saturday through 2359 UTC Sunday.

Summer Phone - held on the first full weekend in August.

0001 UTC Saturday through 2359 UTC Sunday.

Sprint - a 24 hour event held on October 10th (10-10).

0001 UTC through 2359 UTC.

Fall CW - held on the third full weekend in October.

0001 UTC Saturday through 2359 UTC Sunday.

Fall Digital - held on the second full weekend in November.

0001 UTC Saturday through 2359 UTC Sunday.

5.2.3 FREQUENCY AND MODES

Direct unassisted contacts only are permitted. Repeater, Satellite, IRLP, Echolink, or any other similar type of assisted contacts are NOT allowed. Based on the appropriate band plan for the country of operator, CW QSO Parties should be operated in the CW area of the 10-meter band and operated using CW only. Digital QSO Parties should be operated in the digital area of the 10-meter band and operated using Digital modes only (RTTY, PSK, etc). Phone QSO Parties must be operated in the PHONE area of the 10-meter band and may be operated using any approved method (SSB, FM, AM). The SPRINT utilizes all operating modes in the 10-meter band.

5.2.4 ENTRY CLASSIFICATION

Entrants may submit a log in ANY of the following classifications:

QRP: Includes single station operators and can also include OM/XYL teams or any families or groups of people using individual call signs and 10-10 numbers. CW/Digital/RTTY operations max 5 watts and Phone operations max 10 watts during the entire event.

LOW POWER: Same as QRP listed above except that output power for CW/Phone/Digital/RTTY operations is max 150 watts during the entire event.

HIGH POWER: Same as QRP listed above except that output power for CW/Phone/Digital/RTTY operations is greater than 150 watts during the event.

CLUB: A Club must have a valid club station license issued by their National Licensing Authority and must have an active 10-10 membership. Club entries must list the call, name and 10-10 number (if any) for all operators using the club call. Club operations will take place at one location using one set of equipment. Operators entering under a club entry may also enter an individual log for contacts made using their own call sign.

MOBILE: A mobile applies to car, truck, RV, motorcycle, boat, airplane or other mode of transportation. Use of a base station antenna, amplifier or commercial power is not permitted. Operation while your vehicle is parked across a county line, occupying two counties, counts as two counties and two contacts. Marine and aeronautical mobiles must be able to establish counties of operation. Safety is paramount while operating mobile. If you are unable to park near multiple county lines due to safety issues (i.e. on a bridge, on a freeway, etc.), please move to the closest area which would provide the best operating conditions and still be able to give out multiple counties. Duplicate entries are allowed when working in multiple counties. In addition to the normal log information provided the County Worked from and County worked must also be included. Mobile stations will receive awards within their own category and will not be included in the individual sections or Top Ten in the World. **Mobile entries will only be accepted for Winter & Summer Phone and 10-10 Sprint QSO Parties.**

5.2.5 TRANSMITTER INFORMATION

An operator may operate mobile, portable or fixed. If they change their exchange QTH during the QSO Party, the operator must show same in their log. The operator may enter a log from one call district, province, or DX country. Multi-transmitters (two or more transmitters operating simultaneously, sharing one call sign) are NOT permitted in any QSO Party. No matter your physical location, your QTH is the location of the transmitting antenna.

5.2.6 EXCHANGE

10-10 members send call sign, name, 10-10# and QTH (State, Province or Country). If received exchange does not have a 10-10#, then record a zero (0) in the log.

5.2.7 QSO POINTS

Two (2) points are awarded for contacts WITH a 10-10 number. One (1) point is awarded for contacts WITHOUT a 10-10 number. Duplicate entries should be retained in log and show a zero (0) for points. Any log showing 10% or more errors may be handled as a check log. A station may be counted only once regardless of mode except during certain specialty events.

5.2.8 CHAPTER SCORE ASSIGNMENT

Any entrant who is a chapter member may assign his/her score to that chapter. QSO Party chapter scores for the Sprint and Open Season may not be assigned.

TEN-TEN QSO PARTY RULES

5.2.9 QSO PARTY ENTRIES

Logs shall be forwarded to the QSO Party Manager as identified in the 10-10 NEWS or on the 10-10 web site. It is strongly suggested that logs be sent as soon as possible after the close of the event. It is also recommended that DX logs should be sent AIR Mail to insure they are received in good time. Any logs received with a postmark date AFTER the deadline date will be handled as a check log. Any logs received more than 8 days after the entry deadline, regardless of postmark, will be discarded. LOGS MAY BE SENT VIA Email to tentencontest@ten-ten.org. Q95 files are not a proper format nor are they readable, therefore, they will not be accepted.

5.2.9.1 ENTRY DESCRIPTION

Entries must contain a Cover Sheet, Log and Dupe Sheet as described here: COVER SHEET will list the Event Entered, Entry Classification, US Call Area (W0-W9 or DX Country), Chapter Score Assignment (if any), number of contacts and points with 10-10#, number of contacts and points without 10-10#, and total contacts and points claimed. LOGS must be listed in date/time order and list UTC Date, UTC Time, Call, Name, 10-10# (zero (0) if none), QTH and Contact Point Value. A DUPE SHEET is required for any logs exceeding 50 contacts. It may be either a list of all calls contacted in call sign order or hand entered on a dupe sheet grid.

5.2.9.2 ENTRY DEADLINES

Entries for all QSO Parties listed EXCEPT the Sprint shall be postmarked no later than 8 calendar days (this will always be a Monday) after the close of the event. Entries for the Sprint (held on 10/10) shall be postmarked no later than October 18th, unless that day falls on a Sunday or holiday, then the postmark deadline shall be October 19th.

5.2.10 QSO PARTY RESULTS AND AWARDS

QSO Party results will be posted on the 10-10 web site about 15 days after the closing deadline for the event and also printed in the 10-10 NEWS in the appropriate issue. Awards will be issued by the certificate manager for Top Ten Individual scorers in the World, the top individual scorer in each US Call Area (W0-W9), each DX Country, and for top QRP, LOW POWER, HIGH POWER, CLUB, MOBILE and CHAPTER. Electronic certificates will be sent to the 2nd and 3rd place scorers in these categories.

5.2.11 ANNIVERSARY and MEET THE VOLUNTEERS EVENTS

These events run from January 1 0001 UTC to December 31 2359 UTC. In the Anniversary event, entrants may submit a log of contacts with members that have the anniversary year contained in their membership number. Example: 2022 is the 60th anniversary year of 10-10 International Net, Inc. Contact with members containing a "61" in their membership number (i.e., 72061, 69615, 66154, 61126, 00607) would count toward the event. Each year the anniversary number changes, making a new group of members the focus of the event and promoting the use of the 10-meter band. All general rules are applicable with the following exceptions: During the calendar year (January 1 through December 31) make legal 10-10 contacts with 10-10 Number, Date, Call Sign, QTH with members containing the anniversary year in their membership number as described above.

In the MEET THE VOLUNTEERS event, entrants may submit a log of contacts with members listed in the 10-10 NEWS as being a 10-10 volunteer. One contact per volunteer is permitted, regardless of mode of contact. In both events, contacts must be made on the 10-meter band with any legal mode (AM, SSB, FM, PSK, CW, etc.). All submitted logs

must contain only one entry for each 10-10 number contacted. Contacts MUST be listed in 10-10 number order and each entry must list the 10-10 Number, Date, Call, Name, QTH and Mode, in that order. These events are for Individual entries as described in section 5.2.4 and certificates will be awarded for the TOP Ten, however all entrants will be listed in the 10-10 NEWS.

Logs MUST be postmarked no later than January 8th of the year following both the Anniversary and Meet the Volunteers events. Only members in good standing (with dues paid) are allowed to submit logs.

5.2.12 WEAK SIGNAL QSO PARTY (WSQP)

This event was added to help promote digital activity on the ten-meter band. The event in no way affects or modifies the policies for other scheduled Ten-Ten events. All weak signal modes for this event include: FT/JT/JS8/JS8CALL and any future weak signal mode. No repeater, cross-mode or cross-band contacts allowed.

FT4 (28.180)	FT8 (28.074)
JT65 (28.076)	JS8/JS8CALL (28.078)

Entry categories: QRP – Maximum 10 watts output.

Low Power – Maximum 150 watts output.

Exchange: 10-10 members should send call sign, name, 10-10# and QTH (ST/Prov/Country). Received exchange should include normal exchange for FT/JT/JS8/JS8CALL modes and for extra points name, QTH and 10-10#. Scoring will be 1 point for contacts without a 10-10 number and three (3) points for contacts with a valid 10-10# exchange. NO MULTIPLIERS! All other normal rules apply. Logs shall be forwarded to the QSO Party Manager..

5.2.13 10-10 SPRINT (October 10) QSO PARTY

An award will be issued for working all 10 USA Call Districts.

5.2.14 W6OI SPECIAL EVENT

This event has been postponed until further notice.

This special event operation is where volunteers operate the 10-10 official club stations (W6OI/VE9TEN/DL0X) seeking to work anyone anywhere. Any mode of operation is permitted. Many operators will be authorized to operate W6OI from most US states and VE9TEN from various Provinces/Territories simultaneously. DL0X is operated by Henry, DL8YBM. The purpose is to have fun promoting 10-meter activity making contacts with 10-10 members and of course, non-members. This is a great way to increase membership! Exchange is similar to any 10-10 QSO Party event - name, call, QTH, and 10-10 number if one is available. As contacts are made, provide info on the 10-10 organization and where to find our website - www.ten-ten.org. If anyone wants to volunteer to operate W6OI during this event contact Jerry, N9AC. Members in Canada should contact Rob, VE9KM for permission to operate VE9TEN.

5.2.15 FOR MORE INFORMATION

Current information about 10-10 and upcoming 10-10 QSO Parties and events are always available on the 10-10 web site. Cover sheets, logging forms and dupe sheets are also available for downloading or printing at <http://www.ten-ten.org>. Any unanswered questions regarding the QSO Party rules may be forwarded to the QSO Party Manager.

10-10 QSO PARTY COVER SHEET

QSO Party (select one):

- | | | | |
|---------------------------------------|------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> WINTER PHONE | <input type="checkbox"/> SPRING CW | <input type="checkbox"/> SPRING DIGITAL | <input type="checkbox"/> 10-10 SPRINT |
| <input type="checkbox"/> SUMMER PHONE | <input type="checkbox"/> FALL CW | <input type="checkbox"/> FALL DIGITAL | <input type="checkbox"/> WEAK SIGNAL |

Contest Exchange:

Callsign: _____ Name: _____ 10-10#: _____ QTH*: _____
** if operating FROM mobile, enter number of counties operated from in QTH field - counties must show in log*

Entry Information:

Name: _____

Mailing address: _____

City: _____ Zip: _____

State/Province/County: _____

Your e-mail address (for contest questions only): _____

Call Area (W0-W9) or ARRL DX Country you operated from: _____

Chapter Assignment, if any (not valid in Sprint): _____

Entry Type (check one only):

- | | | | |
|--|-------------------------------------|------------------------------|---------------------------------|
| <input type="checkbox"/> LOW POWER | <input type="checkbox"/> HIGH POWER | <input type="checkbox"/> QRP | <input type="checkbox"/> MOBILE |
| <input type="checkbox"/> CLUB (if Club station, please list all operators below this line) | | | |

Claimed Score:

Contacts WITH 10-10 number: _____ X2 = _____

Contact WITHOUT 10-10 number: _____ X1 = _____

Total Contacts: _____ Total Pts: _____

Submitting Logs:

MAILED ENTRIES: All submissions must contain this cover sheet (or reasonable facsimile), the log in UTC Date/Time order, and a dupe sheet in callsign order or in grid format (if more than 50 contacts).

Mail to Dan Morris, KZ3T, 3162 Covington Way, Lenoir NC 28654, USA

EMAILED ENTRIES: All submissions can be in most formats and must additionally include all information from this cover sheet either in separate summary or as summary at head of log. Many contest programs do this for you. Dupe sheets are **NOT** required with an e-mail entry. **Q95** formats **ARE NOT** acceptable.

EMAIL to: tentencontest@ten-ten.org.

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