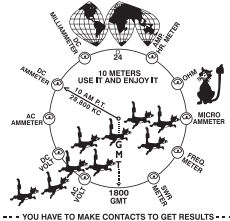


TEN-TEN INTERNATIONAL NET, INC.



TEN-TEN INTERNATIONAL **NEWS**

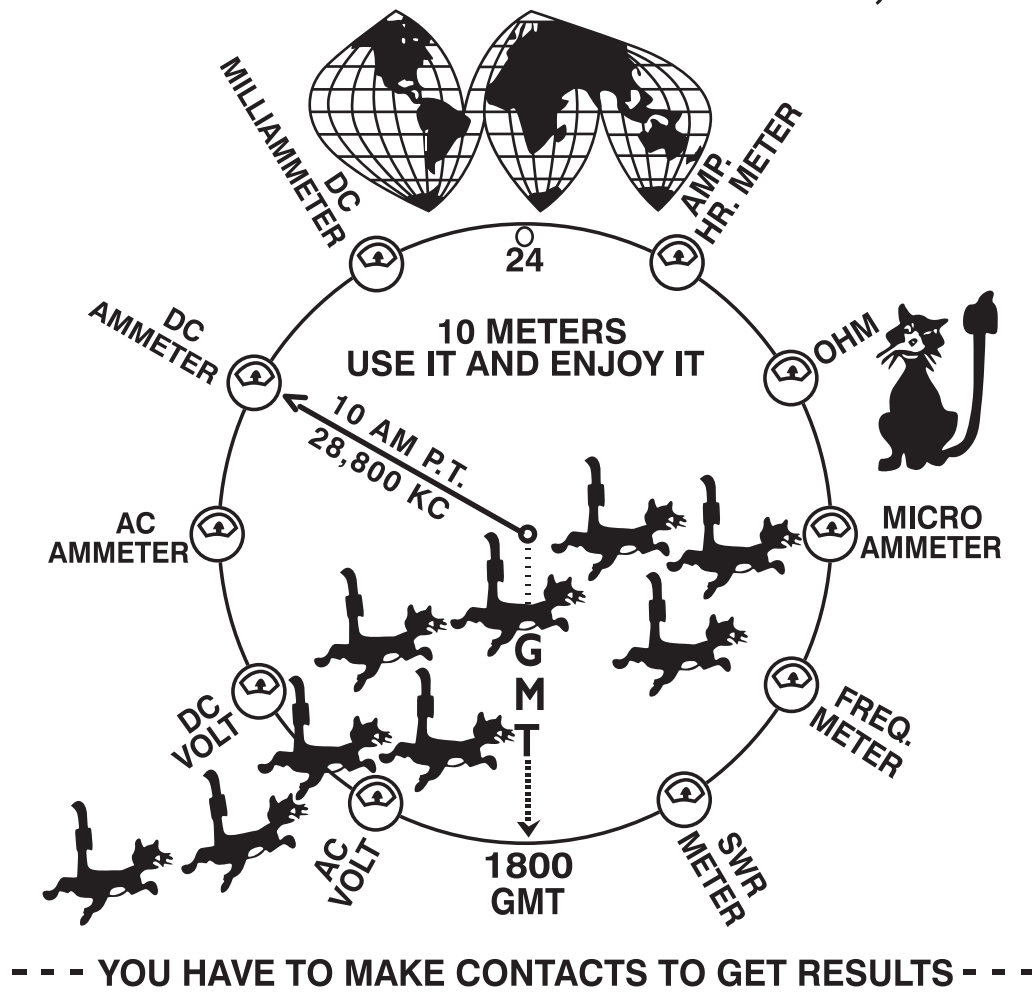


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July 2022 (Summer)

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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 September 2022

PLEASE MAIL ALL ARTICLES AND PHOTOS TO:

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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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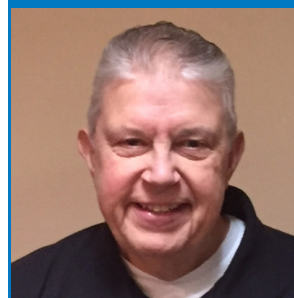
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From the Editor

Randy Mather, AJ7B
 (#7675)

This issue of the newsletter has a bit of surprise for you. It's late June and we already know who the new members of the Board of Directors are. During this election cycle, there were just enough candidates to fill the open positions. So everyone who volunteered to be a board member will be on the board next year. The names, pictures and biographies of each new board member can be found later in the this issue. Please read Mel's article to learn more about the issues the organization faces if we can't get people to volunteer to help keep 10-10 going.

At the time I am creating this article, I am also in the process of helping my ham club prepare for the big weekend: Field Day. I can only hope that the propagation gods will look favorable on the ham community this year. I will be testing the viability of 10 meters, along with the other bands, for contacts. Of course, by the time you read this, the results will be in the books as they say. I certainly hope you had a chance to get on the air to add to the overall QSO count.

I heard that the Hamvention this year was a success. It's good to see our volunteers setup and support the 10-10 booth at these major events. You will find a number of pictures spread out in this issue showing the booth volunteers and some of the visitors to our booth.

I have finally been able to update the video I created showing how you can insert your own messages into an FT8 transmission. This is referred to as "free-text messages." As you may know, some time back the WSJT designers revised the software and completely changed the controls on Tab 2 of the message control interface. Effectively removing the text boxes and controls I used to manually control the message content of a transmission. That design change didn't actually remove the ability of sending user generated text messages. It just made it a little more difficult. The controls found on Tab 1 can still be used to support the transmission of 10-10 exchange information.

I invite you to view the new video to learn how to do this. You will find it on the 10-10 web site and on YouTube. Those of you who saw the older video, I suggest you skip the introduction by jumping about 3 minutes into the video where the new information starts. If you look for it on YouTube, search for "Beyond Standard Messages."

Thank you Mel for choosing me for this year's President's Award. Your comments are much appreciated.

Randy AJ7B #7675



From the President

Mel Sojka KD5DE
#33513

UPPER-LEVEL QRM

Well, my second and final big adventure of 2022 is in the books. A bit of a fluke that my drive to Orlando is almost the same as my drive to Xenia within a few miles. My children and my doctor suggested that this time, I should not travel alone. For the 900-mile journey, I took along my grandson who is a trained paramedic and lifeguard. It was a good trip with good weather and some how, we both survived. I do plan on attending the Huntsville AL event. That will be my last trip for the year. So many years and so many miles. Hard to imagine that I have made the Hamvention over 20 times and WA6POZ, Gerry a long time official of 1010, has done it 33 times. We both decided that we've had enough fun. Especially at \$4 a gallon.

I have seen several comments on the media that the Hamvention was not that good. But from our perspective, it was one of the best in a long time. With ever improving conditions on 10 meters, the interest level is high. This was true for both Orlando and the Hamvention. At Orlando, I ran out of copies of the News to distribute and only had the little fliers for Sunday. This time, I took more copies of the News and ran out of the little handouts on Sunday. We were able to qualify 4 new members and did 45 renewals. This event was better for me since we had several people to help out behind the table. This allowed everyone to actually get out and see the event.

With that, I doubt that the 2019 attendance of 32,000 plus at the event will be achieved in the near future. Orlando was down about 10 percent and I think the same will be true when the numbers are released for the Hamvention. Several major vendors were not in attendance and due to travel restrictions, the normal large group from overseas was not there. One cool item is our Treasurer, KR7RK, held a Summits on the Air (SOTA) forum which was packed. The estimated attendance was 125. Too bad they would not allow us to put on a 1010 forum. Maybe, as the band explodes with activity, we can host a forum next year.

In 1990, 1010 held its first election. On the Ballot were the Offices of President, Vice President, Secretary, Treasurer, and ten Directors. Each of the Officers positions had two candidates running. However, there were 28 candidates running for the 10 Director positions. Voting was via mail-in ballots and was quite

heavy. This trend remained for several years. Eventually the number of Directors was reduced to eight and later to six. The office of Treasurer became a contracted position for legal reasons. The office of Secretary was combined with the Vice President. This is all well and good and we should be having a lot of response from the membership in filling volunteer positions and offices. Not so. We are in a crisis on both fronts. Currently we have 5 awards manager positions that are open, due to illness or SK's. Some positions have been open for several months. Please contact KM5EH if you would consider being an awards manager. The real crisis is the current election. Ten days ago, the deadline for nominations, we had one Director's position open and the office of President without a candidate.

In 1989, 1010 went from a committee-controlled organization to a democratically elected board of officers and directors. If the current crisis continues, 1010 may return to a committee-controlled organization. It is true that part of the executive function is either attending or finding attendees to represent 1010 at least 2 major amateur events. Hamcation in Feb and Hamvention in May. Beyond these two duties, the office of President is quite simple. One Zoom conference per year takes care of the BOD meeting. The Directors position is well defined and in no way time or resource consuming. The sad part about this is, by the time you read this article the decisions will have been made. I know of two highly qualified members that are in early retirement and would be far better than I at this position. One of them already makes all the events and is a super CW OP. I can not continue as your President due to my health and I have served you longer than any other ever has. Time for me to fade into the woodwork.

Now to a totally different subject. FT8 and its kin. 1010 is not the only organization that is having issues with their computer to computer modes. Many feel that it is a dehumanizing mode. Some of the clubs are now saying that they will allow the mode for basic awards but not endorsements. One club said that they are limiting DX contacts to 100 while using these modes. Another that I spoke with said that they have decided not to allow these modes at all for any of their awards. The policy 1010 maintains at this point is that the contacts are valid as long as a full 1010 exchange is made without looking up any data. Some have suggested that 1010 remove access to the data and that would solve the problem. Of course, who knows what the next super mode will be like. By the time you read this article the 2022 BOD meeting will have been accomplished and hopefully some of these issues will be resolved.

I have had some success working DX on CW. Some of the contacts are expeditions and this is encouraging. Hopefully these rare contacts will continue to use the traditional modes. I am finding many stations operating CW and phone and as the band improves digital activity apparently is declining a bit. I enjoy meeting amateurs and not just working their computer. Heck, I have been known to rag chew on CW.

God Bless & 73
Mel KD5DE #33513

President's Award



Very rarely is there a member that impacts all the other members. That is the advantage or lack thereof as Editor of the News. Randy AJ7B #7675 came to the rescue of 1010 many years ago. At that time, I was struggling to edit the News and with my very limited literary skills not exactly fulfilling that need. Randy is a highly skilled professional and we are very blessed to have him in that position.

It gives me very great pleasure to name Randy Mather AJ7B #7675 the recipient of the 2022 President's Award.

NEW LIFE MEMBERS

04040	N5KS	Kim D Sarchet	TX
08119	N4NFA	Sally I Sparks	NC
08326	W5DNT	Howard D White	TX
11988	WØUQ	Lee R Walus	MA
13562	W4JF	Joey A Ferguson	SC
34638	K3FL	Franz J Laugermann Jr	TX
38989	VK2MJV	David Marks	DX
57206	WB6POW	Gordon W Ripley	CA
72774	N7UQ	Charles R Dockery	TX
77963	KC3QND	Evelyn Jeany Hess	PA
77973	KH6HAK	Henry A Kaul	HI



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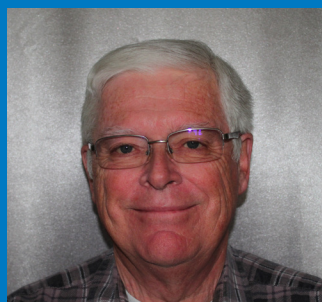
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Quarter Century Wireless Association, Inc.

To Join or Renew visit:

<http://www.qcwa.org/join-renew.php>

For more information please contact
om@qcwa.org



Chapter Coordinator

Jim Fox, KA0ZPP
(#43428)

GENERAL NEWS

1) **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.

2) If your chapter is planning a special during the months of October, November, or December of 2022, please let me know before September 20th (**note the early date** as I will be unavailable later that month) so I can include the details in the October 2022 newsletter.

3) Reminder of Quarterly Reports Due: **In Extremis** (no report in over a year): None. **Past Due** (no report received during the prior quarters when due): Fort McHenry/ Cornerstone/Yodar Kritch, Hanse, Speedway. Reports received after May 30 (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 third quarter 2022:** Aloha (July), Castle Craig (July), Chesapeake Bay (July), Chief Seattle (August), Houston SHOT (July), Louisiana Pelican (July), Major League Baseball (August), Milwaukee (July), Tango (August), Windfarms (August). Note that Quarterly Chapter Reports may be sent any time. The months indicated here are the dates in 2021 in which the last report was received.

4) I thank **ALL CH/CM** who sent me a **complete report** during 2021 so I have up to date contact and net information. Other chapters, please send me a complete report in 2022. 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.

5) Poor propagation in recent years has certainly affected Chapter Net activity. But hang in there – conditions are improving. One of the primary purposes of Ten-Ten International is to promote activity on this band, especially in such times as these.

CHAPTER NEWS

1) I listed the wrong call sign for Samuel, NH6SJ, former CH of the Aliis who have gone QRT. He will continue to call a net on Saturday 2200 UTC at 28730 in order to provide contacts when conditions permit.

2) I regret that since Robert, KA5VVD, became SK, the **Branding Iron** chapter is 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.

3) **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.

4) **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.

5) Chapters below accept email upgrades as of May 30. 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@arrl.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, z1afu@nzart.org.nz

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

Hanse – CM DL5HAN, d15han@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, k7qxg2@gmail.com

Speedway – CM W7CAR, w7car@arrl.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.

Jim Fox, KA0ZPP, PO Box 135 Mayhill NM 88339, email: ka0zpp10ten@gmail.com

TEN-TEN NET GUIDE

As of June 1, 2022

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	DAY	ZSUM	ZWIN	Chapter Name	Location	Freq
SUN	0001	0100	Chesapeake Bay	Chestertown, MD	28345	WED	0001	0100	Castle Craig	Meriden, CT	28375
SUN	1300	1400	Arlington	Arlington, VA	29200	WED	0100	0200	Cincinnati Area Ten	Cincinnati, OH	28430
SUN	1400	1500	Neanderthal	Bergkamen, DL	28355				Tuners		
SUN	1700	1700	Major League Baseball	Gilbert, AZ	28380	WED	0100	0200	Houston SHOT	Houston, TX	28488
SUN	1900	2000	Oregon Trail	Dallas, OR	28330	WED	0200	0300	10 Bar X	El Paso, TX	28445
SUN	1930	1930	North Georgia	Atlanta, GA	28410	WED	1400	1500	EU DX/Branding Iron/Hanse	Bergkamen, DL	28355
MON	0100	0100	Arizona Desert 10-10 Net	Phoenix, AZ	28445	WED	1930	1930	Route-66	Boonville, IN	28370
MON	0100	0200	Milwaukee	Milwaukee, WI	28365	THU	0100	0200	Gateway	St. Louis, MO	28650
MON	0100	0100	Lonestar	Arlington, TX	28460	THU	0100	0100	Cow Town	Arlington, TX	28460
MON	0130	0230	Bauxite	Benton, AR	28470	THU	0100	0200	Milwaukee	Milwaukee, WI	28365
MON	1730	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	Fort McHenry/Cornerstone/Yodar Kritch	Arbutus, MD	28370
TUE	0130	0230	City of Lights	Aurora, IL	28720	FRI	0001	1000	Steamboat Plus	Shreveport, LA	28430
TUE	0130	0230	Bauxite	Benton, AR	28470	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, HI	28490						
TUE	1500	1600	New Mexico Mud Ducks	Albuquerque, NM	28835	SAT	1510	1610	Louisiana Pelican	Baton Rouge, LA	28450
WED	0000	0000	Possum Trot	Raeeford, NC	28345	SAT	1730	1730	Tango	Buenos Aires, LU	28650



DX News

Mike Davidson, N5MT
(#24949)

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

For two quarters in a row, I am sorry to inform readers that one of our 10-10 friends has died. Jim D Hardy K4HAV #17605, died at age 83 in Tifton, Georgia on May 17, 2022.

Jim wrote the complicated Win1010 software that I and many members use to collect 10-10 QSO data. Jim had a Physics BS degree, went into the Army and had a fellowship to Penn State Univ where he earned his Masters degrees in EE and Physics in 1964. Jim got his ham license in high school and he joined 10-10 in October 1977. Jim got the urge to write software for 10-10 in 1990 when no existing logging program supported our QSO parties. The Summer 1990 QSO Party was Jim's first use of this new DOS program. At the 1991 10-10 Convention in Arlington TX, the County Hunter award was announced and Jim had his new CH program to log the data for this award finished. By 1998 the DOS programs became Windows. Jim moved to Tifton in 1992 where he married his lifelong friend Linda. Jim wrote his ham and commercial software for AM/FM radio stations under the name of Hardy Data Systems.

I was a Beta tester for his ham software for the DOS and OS versions and he also wrote a DOS program for the 10-10 Countries award that I have used for over 20+ years. I also know that his K4HAV callsign owned several Field Day records with his local ham club in Georgia. My first radio contact with Jim was on SSB during the February 1991 Winter QSO party. We first met at a big 10-10 convention but it took dozens of phone calls and emails talking about software bugs and DX software challenges for the 10-10 Countries award to make things work and become better.

Thanks to Jim for all the technical skills and information that has helped with our awards and paper chasing over many years for all our members. RIP my friend.

We now have nine new 10-10 members from Hawaii joined the past year. Better skip/propagation on Ten means more DX talking. New DX members are listed towards the end, so read on for more DX news.

DX members are having more fun with the rise in the Solar Flux numbers due to the increase in sunspot activity! We reached a new high for cycle 25 during May with a record 180 flux reading and about 50 sunspots identified. On FT8, I saw S. America working Europe and Asia on Ten and we in Louisiana had no opening to Asia that day. Steve HP9SAM #75838 in Panama, continues to try to show up on Saturday mornings on 28450 MHz. I have worked Xenia ZL4YL #77957 two times on digital the past quarter as her antenna farm is well designed for Ten.

A paid up 10-10 member, can apply for all 10-10 awards by using the website to get the needed forms. No QSL cards are required for our awards, unlike the ARRL system.

As the Countries Award Manager, I follow most all of the ARRL DXCC rules. We require that you exchange your Callsign, Name, State and 10-10 number over the air, only on Ten, and you need to use a logging program to save your data or the old paper log book. Then when you are ready to fill out the award application, move your 10-10 info from the logging program to your award form. The honor system does apply for all contacts on 10-10 awards. I keep many DX records for award validation with my job. As of June 2022, there remain 22 countries that have not been worked for 10-10 country credit as published in the 2021 March News. There are 645 members that have the basic 10-10 Countries Award for 25 countries, but only 52 members that have credit for 100 countries, which is the total needed for the ARRL DXCC. The present record is 302 countries worked and the next highest count is 208 countries worked by a German SK member.

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

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

GENERAL 10-10 DX REPORTED IN THE PAST QUARTER:

3B Rodriguez Isl. Robert 3B9FR #61550, has been on FT8 and CW in May on Ten and 6 Meters. I believe he has a new cubical quad antenna that he uses on Ten and 6. His Rodriguez QTH is 10,675 miles from my station in LA.

4U United Nations. There was activity from the ham radio station 4U1UN #55555, in the New York UN building, this past quarter. The remote HF station was used and the Ten meter beacon was heard here in LA.

4U ITU UN Switzerland. 4U1ITU #11111. After a two year Covid closure of the ITU building, it is open again until renovations start on June 3, 2022. Ham radio was active for a few weeks at the end of May until June 3rd.

FO French Polynesia. Ros 4Z5LA #42000, is now in Tahiti for an unknown

time period. He was in Israel until May 20th and May 27 started FO/4Z5LA on 15 Mtr. No info given, use DXSummit.FI for DX search. LoTW.

HP Panama. Steve **HP9SAM** #75838, continues to operate on Saturday mornings, as he visits with the Pelican net on 28450 MHZ at 1510 UTC.

Jose **HP2AT** #42071, has not been using a special callsign HP32AT as previously reported. LoTW.

Emilio **HP2NG** #62294 had a callsign change from HP2DFU and our 10-10 database has been updated.

HS Thailand. Fred **K3ZO/HS0ZAR** #8859, reported many new HS hams passed their HF written and CW test recently. No active 10-10 member is in Thailand now but I see a lot of HS0 callsigns are now active on various bands.

J6 St. Lucia. Kyle **WA4PGM** #50763 and Dan W0CN #27026, visited with Bill **K9HZ/J68HZ** #2618 from March 1-7th. Be sure you worked the correct 10-10 number. Bill made a good Zoom presentation about building his station in St. Lucia to the Texas DX Society on May 26th.

OH0 Aland Islands. Hans **DK8RE** #75943 and friends, used callsign OH0EG from April 26-29th.

P4 Aruba. John **W2GD** #14109 operated as P44W from his station in Santa Cruz May 24-31st. When not in a contest, he likes CW and the WARC bands. LoTW.

Tony **N2TK** #22425, was on Aruba from March 2-8th. His call was P40F and only uses LoTW.

PJ2 Curacao. Andreas **PJ2/DK5ON** #54260, was on from March 1-17th all bands, FT8 and SSB.

PJ5 St. Eustatius. Frank **PJ5/K3TRM** #69974, was on the island from March 6-10th. He operated SSB, RTTY, and FT8 on 40-10 Mtr. LoTW. Note: Frank and his father had the same callsign but different 10-10 numbers.

V3 Belize. Chuck **WO9K** #54906, was in Belize using call V31WO from May 5th until May 14th. Chuck was on FT8 mostly with only 3 watts.

VP2M Montserrat. Just found out, that Thaire **W2APF** #50022 was using call VP2MDX in Montserrat from January thru February 2022 and will be returning again using the same call, in 2023 from January 2nd to March 31st.

VP6 Pitcairn Island. Miralda **VP6MW** #50434, has been on the radio on Ten & 15 Mtr in April and May. Good luck.

VP8 Falkland Isl. Bob **VP8LP** #8854 operated in May on FT4, FT8 & SSB on Ten and 12 Mtr in May. Bob is the only 10-10 member on the Falkland Isl. NO LoTW!

Z6 Kosovo. Rene **DL2JRM** #69623 and a friend were in Gjilan from May 23-30th. Rene's call was Z68QQ except for the CQ WW WPX contest it was Z66BCC on CW.

ZF Cayman Islands. Jim **WB2REM** #48365 is on the big island using his ZF2OO callsign until January 2023. LoTW. I heard him on Ten the last week of May on FT8.

UPCOMING DX & NEW 10-10 ACTIVITY:

3Y Bouvet Island. A big DXpedition to Bouvet will be attempted in November for the #2 most wanted country. The only member that might be going is Bill **KO7SS** #8631. In 1990, this was a first time country for all 10-10 members. This DXpedition will be an expensive trip so when the dates get published, take note and be ready!

ET Ethiopia. Ken **K4ZW** #18573 will be back at the ET3AA station in mid June and will have a new 6 meter antenna for the station. The ET3AA station is not a 10-10 member so you will have to find Ken as the operator on Ten.

K USA. Len **K1NU** #54523 will be on Shelter Key, Florida from June 11-18th using his club callsign K1JV/4. Mostly CW and FT8 on 10 to 20 Mtrs. LoTW.

VY Canada/Yukon. Jay **VY1JA** #18433 has made repairs to his station outside of Whitehorse Yukon Territory. I did not find any remarks if he or friends will be using his call or a special VY1AAA in 2022 for the Queen's Jubilee event.

MISCELLANEOUS ITEMS & NOTES:

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>.

NEW-> History of ARRL DXCC program:

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

NEW-> Ham Lookup various ways:

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

NEW-> Ham website for LoTW users:

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

Propagation: I expect the solar flux to range from 100-175 during the Summer, which means the flux continues to rise as we are seeing more

sun spots in cycle 25.

The 2022 Summer Solstice is on Tuesday June 21st, summer starts in the northern hemisphere and the Sun is 23.5 degrees north of the equator, giving the US its longest day times and shortest night. In the southern hemisphere, winter starts on this day. Cycle 25 started on November 17, 2019. A steady active Sun is now giving us a moderate rising solar flux. NOAA predicted a flux maximum of 125-130 for the winter of 2024 but we have already seen higher flux levels last month. Sunspots are counted by looking at the Sun but solar flux is measured by radio at 2.8 GHz.

The 2021-2022 monthly **maximum** solar flux was: Jan 79, Feb 79, March 79, April 85, May 81, June 94, July 95, Aug 90, Sept 102, October 112, November 100, December 131, January 2022 was 130, February 130, March 151, April 166 and May 180. Average 111.

The 2021-2022 monthly **minimum** solar flux was: Jan 70, Feb 67, March 72, April 71, May 70, June 69, July 73, Aug 71, Sept 75, October 76, November 78, December 76, January 2022 was 84, February 93, March 94, April 96 and May 98. Average 78.

On June 1st, the solar flux was 98, the A index was 9 and K index was

1. There have been good sunspot regions on the Sun the past 3 months with increased solar flux up 20-40+ points. The USAF solar flux forecast for June 1st to July 15th is from a high of 175 to a low of 98 with days at a 140 average flux. This means you might see a solar flux of 100-110 for the 2022 Field Day. Good Luck at Field Day.

My Prediction: Over the next three months, the best conditions on Ten could be: June 13-19th; July 10-15th; August 6-10th; and Sept 2-8th. For the USA, expect a 65% chance of DX to Europe or Asia with a 85% chance of DX to South America or the Pacific. Listen to the beacons 28.175-28.300 MHz to find if the band is open.

There was only one new 10-10 DX member joining from March to May

2022. March: none; April: none; and May: KH6HAK Henry #77973.

Thanks to the Daily DX by Bernie W3UR #25731 and the ARRL DX Bulletins. This DX News edition is my number 127th of DXing reports. DX Info to: Mike Davidson, 26274 Whispering Pines Ave, Denham Springs LA 70726 USA and Email: N5MT@aol.com.

DX IS! 73 Mike Davidson N5MT #24949

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10 Meter Beacons

As 10 meter operators one should be aware 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>

10-10 NET CONTROL STATIONS
ALL NETS BEGIN AT 1800Z

Mon (28.380)	Open. N6OPR	#45715	AZ
Mon (28.800)	Doc, WB6OJB	#70675	CA
Tues (28.380)	Ray, K7CWS	#50288	AZ
Tues (28.800)	Open. Contact Bob N6OPR for info		
Wed (28.380)	Bob, N6OPR	#45715	AZ
Wed (28.800)	Open, WB6OJB	#70675	CA
Thu (28.380)	Bob, N6OPR	#45715	AZ
Thu (28.800)	Robert, W4SOT	#63201	NC
Fri (28.380)	Steve, W7WHB	#74965	AZ
Fri (28.800)	Tim, K1IEB	#74965	AZ
Sat (28.380)	Open, N6OPR	#45715	AZ
Sat (28.800)	Open. Contact Bob N6OPR for info		
Alternate			

Sunday **NEVER ON SUNDAY**

10-10 Has Two Official Daily Nets
28.380 and 28.800 MHz
Both Run At 1800z
Every Day Except Sunday
Listen And If You Can Hear Us Join IN!!!

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.



Net Report

Bob Farrow, N6OPR
(#45715)

Net Report for 1st Quarter 2022

Monday Nets

-----28.380 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
3-Jan	35	8	3-Jan	6	0
10-Jan	27	8	10-Jan	5	0
17-Jan	7	0	17-Jan	5	0
24-Jan	10	1	24-Jan	3	0
31-Jan	9	0	31-Jan	5	0
7-Feb	12	3	7-Feb	3	0
14-Feb	40	14	14-Feb	4	0
21-Feb	12	3	21-Feb	6	0
28-Feb	31	8	28-Feb	6	0
7-Mar	30	9	7-Mar	4	0
14-Mar	17	5	14-Mar	6	0
21-Mar	6	0	21-Mar	4	0
28-Mar	14	2	28-Mar	7	1

Tuesday Nets

-----28.380 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
4-Jan	11	1	4-Jan	XX	0
11-Jan	19	5	11-Jan	XX	0
18-Jan	12	1	18-Jan	XX	0
25-Jan	7	1	25-Jan	XX	0
1-Feb	10	0	1-Feb	XX	0
8-Feb	14	1	8-Feb	XX	0
15-Feb	22	3	15-Feb	XX	0
22-Feb	26	3	22-Feb	XX	0
1-Mar	27	11	1-Mar	XX	0
8-Mar	26	8	8-Mar	XX	0
15-Mar	23	7	15-Mar	XX	0
22-Mar	10	0	22-Mar	XX	0
29-Mar	16	1	29-Mar	XX	0

Wednesday Nets

-----28.380 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
5-Jan	9	6	5-Jan	0	0
12-Jan	6	0	12-Jan	5	0
19-Jan	10	0	19-Jan	XX	0
26-Jan	9	1	26-Jan	XX	0
2-Feb	5	1	2-Feb	3	0
9-Feb	4	0	9-Feb	XX	0
16-Feb	39	9	16-Feb	3	0
23-Feb	32	13	23-Feb	XX	0
2-Mar	9	1	2-Mar	XX	0
9-Mar	23	4	9-Mar	XX	0
16-Mar	8	1	16-Mar	4	0
23-Mar	14	2	23-Mar	4	12
30-Mar	34	0	30-Mar	XX	0

Thursday Nets

-----28.380 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
6-Jan	6	0	6-Jan	3	1
13-Jan	16	3	13-Jan	5	3
20-Jan	8	1	20-Jan	3	1
27-Jan	10	3	27-Jan	8	2
3-Feb	8	0	3-Feb	3	0
10-Feb	17	6	10-Feb	7	1
17-Feb	23	6	17-Feb	8	2
24-Feb	35	11	24-Feb	6	0
3-Mar	8	2	3-Mar	3	1
10-Mar	33	9	10-Mar	7	3
17-Mar	22	11	17-Mar	5	1
24-Mar	6	0	24-Mar	3	0
31-Mar	41	14	31-Mar	5	0

Friday Nets

-----28.380 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
7-Jan	XX	0	7-Jan	5	0
14-Jan	XX	0	14-Jan	10	0
21-Jan	XX	0	21-Jan	9	0
28-Jan	XX	0	28-Jan	12	0
4-Feb	XX	0	4-Feb	22	4
11-Feb	XX	0	11-Feb	14	2
18-Feb	XX	0	18-Feb	9	1
25-Feb	XX	0	25-Feb	10	0
4-Mar	XX	0	4-Mar	6	0
11-Mar	XX	0	11-Mar	7	0
18-Mar	32	10	18-Mar	1	0
25-Mar	2	0	25-Mar	1	0

Saturday Nets

-----28.380 MHz -----			-----28.800 MHz -----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
1-Jan	25	11	1-Jan	XX	0
8-Jan	13	5	8-Jan	XX	0
15-Jan	12	3	15-Jan	XX	0
22-Jan	7	2	22-Jan	XX	0
29-Jan	2	0	29-Jan	XX	0
5-Feb	5	0	5-Feb	XX	0
12-Feb	3	0	12-Feb	XX	0
19-Feb	26	9	19-Feb	XX	0
26-Feb	35	16	26-Feb	XX	0
5-Mar	XX	0	5-Mar	XX	0
12-Mar	XX	0	12-Mar	XX	0
19-Mar	27	7	19-Mar	XX	0
26-Mar	XX	0	26-Mar	XX	0

XX NO NET CALLED
 XXX NO REPORT RECEIVED

Hamvention Pictures



Keith KR7RK #63324, Gerry WA6POZ #21274, Linda WA6SPS, Phyllis K5PLH #77878, Ronnie W5WUM #2019, Mel KD5DE #33513

Hamvention Pictures



Ted Morris NC8V #16177, Mel Solka KD5DE #33513



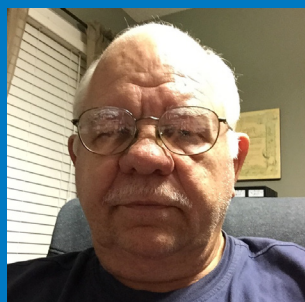
Jim K4JJR #68413, Mel Solka KD5DE #33513, Karen W4KRN #66623



Kurt Myers K2CWM #9712, Mel Solka KD5DE #33513

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.



QSO Parties

Dan Morris, KZ3T
(#41015)

2022 SPRING DIGITAL QSO PARTY

April 23 - 24

TOP TEN

CALL	10-10#	CTX W	CTX WO	TOTAL
1. W7DDE	77712	14	59	87
2. AJ7B	7675	8	34	50
3. N4ZCG	56067	16	15	47
4. WA2HMM	40510	3	38	44
5. N3GTY	50585	13	2	28
6. KM4ODS	77504	9	6	24
7. N6GP	21149	11	1	23
8. AK4YS	75328	9	0	18
9. LU1BJW	39329	6	3	15
10. KZ3T	41015	6	1	13

CALL AREA ORDER

CALL AREA 1

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	4	1	9

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	3	38	44

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	16	15	47
N3GTY	50585	13	2	28
KM4ODS	77504	9	6	24
AK4YS	75328	9	0	18
KZ3T	41015	6	1	13
KM4AEM	77309	0	9	9
KK4TBC	77965	3	0	6

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
KM5FF	50356	3	0	6
KM5EH	71103	2	0	4
KD5DE	33513	0	2	2

CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
N6GP	21149	11	1	23

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
W7DDE	77712	14	59	87
AJ7B	7675	8	34	50

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	9	0	18

ARGENTINA

CALL	10-10#	CTX W	CTX WO	TOTAL
LU1BJW	39329	6	3	15

PANAMA

CALL	10-10#	CTX W	CTX WO	TOTAL
HP1ALX	36163	3	1	7

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
W7DDE	77712	14	59	87
AJ7B	7675	8	34	50
N4ZCG	56067	16	15	47
WA2HMM	40510	3	38	44
N3GTY	50585	13	2	28
KM4ODS	77504	9	6	24
N6GP	21149	11	1	23
KZ3T	41015	6	1	13
KM4AEM	77309	0	9	9
N1API	25468	4	1	9
KK4TBC	77965	3	0	6
KM5FF	50356	3	0	6
KM5EH	71103	2	0	4
KD5DE	33513	0	2	2

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
LU1BJW	39329	6	3	15
HP1ALX	36163	3	1	7

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	8	188
CHIEF SEATTLE	1	50
TANGO	1	15
CASTLE CRAIG	6	9
NM MUD DUCKS	1	6
STEAMBOAT	10	2

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
NZ4FF	77686	13	2	28	N3GTY
K4MN	24874	9	6	24	KM4ODS

CHECK LOGS

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
YL2LW	0	0	70	70	
PR7KSA	0	0	53	53	
HP1ELV	0	3	22	28	

2022 SPRING CW OSO PARTY**MAY 7 - 8****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. KM4ODS	77504	11	27	49
2. N4ZCG	56067	20	5	45
3. K4FET	77603	12	20	44
4. KI4W	62657	11	11	33
5. N4ERM	34524	12	6	30
6. AK4YS	75328	9	0	18
7. WB3ABH	13155	6	2	14
7. WB6IZG	55393	6	2	14
8. NK9Y	37014	5	1	11
9. KD5DE	33513	4	1	9
9. KZ3T	41015	3	3	9
10. N3GTY	50585	4	0	8

CALL AREA ORDER**CALL AREA 1**

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	1	0	2

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
K2CWM	9712	2	2	6
WA2SUH	407	1	0	2

CALL AREA 3

CALL	10-10#	CTX W	CTX WO	TOTAL
WB3ABH	13155	6	2	14
WA3JXW	4377	1	0	2

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
KM4ODS	77504	11	27	49
N4ZCG	56067	20	5	45
K4FET	77603	12	20	44
KI4W	62657	11	11	33
N4ERM	34524	12	6	30
AK4YS	75328	9	0	18
KZ3T	41015	3	3	9
N3GTU	50585	4	0	8
NC4GK	77965	2	0	4

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
KD5DE	33513	4	1	9
KM5FF	50356	3	0	6
N5MT	24949	2	2	6
W5SUM	2019	2	1	5
KM5EH	71103	2	0	4

CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
WB6IZG	55393	6	2	14

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
AJ7B	7675	2	2	6

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
NK9Y	37014	5	1	11

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	9	0	18
NK9Y	37014	5	1	11

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
KM4ODS	77504	11	27	49
N4ZCG	56067	20	5	45
KI4W	62657	11	11	33
N4ERM	34524	12	6	30
WB3ABH	13155	6	2	14
KD5DE	33513	4	1	9
KZ3T	41015	3	3	9
N3GTU	50585	4	0	8
AJ7B	7675	2	2	6
K2CWM	9712	2	2	6
KM5FF	50356	3	0	6
N5MT	24949	2	2	6
W5SUM	2019	2	1	5
KM5EH	71103	2	0	4
NC4GK	77965	2	0	4
N1API	25468	1	0	2
WA2SUH	407	1	0	2
WA3JXW	4377	1	0	2

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
K4FET	77603	12	20	44
WB6IZG	55393	6	2	14

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	11	297
STEAMBOAT	2	14
CHIEF SEATTLE	1	6
LOUISIANA PELICAN	1	6
NM MUD DUCKS	1	6
CASTLE CRAIG	1	2

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	11	27	49	KM4ODS
NZ4FF	77686	4	0	8	N3GTY

CHECK LOGS

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
N6GP	21149	5	0	10	0

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.	8300	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

TOP TEN CLUB (Cont.)

No.	CONTACTS	CALL	10-10#
4.	2100	W8PGW	W8PGW
5.	1800	W1NRG	W1NRG
6.	1200	NM5MD	NM5MD
7.	1100	W4MNM	W4MNM

1000+ MILESTONE BARS**1500 BAR**

NO.	CALL	10-10#
819	WA2HMM	40510

8500 BAR

NO.	CALL	10-10#
33	N6OPR	45715

10700 BAR

NO.	CALL	10-10#
17	N1API	25468

AWARDS MANAGERS

BAR 100-900 ..	Dan Morris, KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	dbmorris315@gmail.com
Bar 1000+	Open			
VP Bar	Open			
VP WAS	Open			
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	kevinemt@tvconnect.net
Counties	Mark Tatlor Murphy, KC4HIT #57488 ..	PO Box 936, Conover, NC 28613-0936	(828) 466-1505	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	Open			
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

2020 Election Candidate Bios

David Ruch, NF0J, #19553 - President (UNOPPOSED)



My name is Dave Ruch, NF0J, #19553, and I am seeking your support for the position of President. Since becoming a ham in 1977, 10 meters has always been my favorite band. Early on, I joined the 10-10 International Net and spent many hours making contacts and collecting wallpaper. Like many of you, I miss the days of working the world with just a few watts on 10 and look forward to doing it again. In addition, I look forward to working with the Board and all members to reactive chapters lost to poor propagation and the start of new ones and bringing on new hams as cycle 25 builds.

Recently retired, I was a technology manager for a large bank, and later, a small business owner for over ten years. I hold a graduate degree in management and a private pilot license.

I believe my business and educational experience will benefit 10-10 International, and I look forward to the challenge. The future of 10 meters looks bright!

George Davenport, KM4ODS, #77504 - Director (UNOPPOSED)



After retiring from the US Army Special Forces with 28 years of service, I began a career of government contracting work. I spent several years working as a liaison between military contractors and Special Operation Command followed by 5 years as a security professional with different contractors providing services in Iraq. I have been fully retired for the last 8 years.

When I retired from the military, I remained in North Carolina outside Fort Bragg. After my stint at contracting and fully retiring, I pulled out my bucket list and Amateur Radio was one of the top items. I obtained my ticket

and have been having fun since. Being in Special Forces I was "cross-trained" in communications and at one time was able to send/receive code at a speed of 10/10. I am slowly trying to re-hone my abilities which deteriorated over a period of 40+ years.

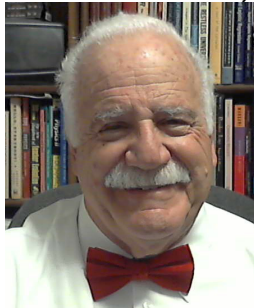
After joining the local radio club, I was asked to honcho our club annual Field Day set-up after six months of being licensed and our NC QSO Party 8 months later. I have been the chief organizer for each event ever since. I am also a former and current VP of our local club and the Chapter Head of our local 10-10 Chapter, The Possum Trot.

Currently I am the Director for Publications, after being selected by our current President after the former Director had to resign for personal reasons. It has been a privilege to work with the current Board and look forward to continued

efforts to bring our organization back to the glory days when the bands were hopping with activity on 10 meters. The forecast looks bright and solar activity is on our side.

As for the future of the 10-10 Organization, I can't make promises, no one can. However, I would like to see us as an organization try to gather support from regional, state and ARRL local clubs along with international organizations by increasing our footprint across the entire spectrum of Amateur Radio. By putting our heads together, I feel we can come up with a workable approach and regain some of the interest in 10-10 that has been lost over the years.

Marcus Lieberman, KM5EH, #71103, Director (UNOPPOSED)



I was first licensed in 1996 and joined 10-10 soon after that. I grew up in Chicago and during the 1950's built some radios, learned CW, but never met a ham. After I moved to Albuquerque in 1995, two friends disclosed they were ham radio operators and urged me to get my license since I had a science background and loved to talk. My work over 40 years involved teaching and applying statistics, both in research and educational evaluation, so putting numbers in boxes was second nature to me and paper chasing was a natural activity. In Albuquerque, I worked out of my home, so my office was also my shack and the radio was on most of the day. It helped me to be very active in 10-10 clubs. So much so that I started a local 10-10 club: the New Mexico Mud Ducks, NM5MD, (#72385). The club now has over 400 members worldwide. I also wanted to give something back to this organization that had given me so much pleasure. So when the ON4/XYL manager position became vacant, I grabbed for it and was given the title.

I always talk up 10-10 at local ham gatherings and have had a forum presentation several times at our state ham conventions. I will continue to promote use of the ten-meter band including other modes than voice, e.g., PSK and CW. I try to set a good example as an operator and encourage others to do the same. If I am elected to the Board as a Director, I would like to voice concerns of the members about changes in policy or operating they feel strongly about. Again, it would be my wish to give back even more to the organization that has given me so many terrific experiences.

Charles (Chuck) Dockery, N7UQ, #72774 - Director (UNOPPOSED)



As soon as I was licensed in amateur radio, I was told about Ten-Ten International. That got me excited to learn Morse Code and I got my General as soon as possible. After passing my General I sought the required contacts to get my Ten-Ten membership. It happened at a very good time in the sunspot cycle and I was able to make many contacts and on-air friends through Ten-Ten. I went on to get very involved in paper/award chasing and got my first WAS on ten meters. Next was the Bar Awards and I am currently at 500. I kept active in some of the chapters as well as checking into the daily nets. At hamfests and conventions I would plug Ten-Ten International. I am a volunteer examiner with ARRL, Laurel and W5YI. I attend local hamfests and always wear my Ten-Ten badge to promote the organization.

In the 10-10 Sprints I was first in the 7th call area in October 2010 and 7th in the world. The next October I also placed first in 7 land and 2nd in the world. In October 2012 and 2013 I was first in the world. I have the 35 and 45 bar for the Counties Award.

I have not been very active on HF over the past few years as I had been working more than usual and had moved 3 times. I am now in a home where I will not be able to put up a large beam, but still able to utilize other smaller antennas,

I will continue to push for membership in this great organization through on-air and personal contacts. "You have to make contacts to get results."

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.

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 last May, the Foundation Board voted to guarantee the funding for three \$2000 scholarships to be awarded in 2022. 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. A donation was received by Arlene Schwartz, KE6GFI #72985 in memory of her father Ray Schwartz K4CRR (SK). 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 the 10-10 website or send your check to me or the Data Manager. Our addresses can be found on Page 27.

The members listed below became 10-10 Scholarship Foundation Supporters during the months of March, April and May and we appreciate their support.

Platinum (\$1000 or more)

None

Gold (\$500 to \$999)

WB0CON..... Eva Donaldson 53964

Silver (\$100 to \$499)

KE6GFI..... Arlene Schwartz 72985

Bronze (Up to \$99)

KD5DE..... Mel Sojka 33513
N3FP John Peters, Jr, 47239
KR4JY James Eirland, Jr. 64404
KF5JLN..... Michael Griffin 77884

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 34 years, 10-10 has funded 130 scholarships valued at \$171,000.

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 F.

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

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



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 2022

AJ7B, Randy.....	Editor	N5MT, Mike.....	Awards - DX
G4BLH, Mike	Awards - GB	N6OPR, Bob.....	Director
K1IEB, Tim.....	Net Control	N7YG, Jeff.....	IT Manager
K5BKT, Peg	Committee Member	N9AC, Gerald	W6OI Trustee
K6RDK, Dave	Data/ Membership Manager	NP2MR, David.....	Committee Member
K7CWS, Ray	Net Control	NS6X, John	Committee Member
KA0ZPP, Jim.....	Director	NZ1I, Kevin.....	Awards – WAC
KD2NOM, Mark	Director	VA7GY, Garry	Committee Member
KD5DE, Mel.....	President	VE3MEW, Bill	Committee Member
KG5RJ, Greg	Committee Member	W2FDH, Frank.....	Committee Member
KI6OY, Lee	Awards-CW	W4SOT, Robert	Net Control
KJ5SZ, Hugo	General Counsel	W5DJT , David	Committee Member
KM4ODS, George	Director	W5SUM, Ronnie.....	Vice President / Secretary
KM5EH, Marcus	Director	W7WHB, Steve.....	Net Control
KM5FF, Ed.....	Awards-WPX	W9HT, Joshua	Committee Member
KR7RK, Keith,	Treasurer	WA2SUH, Larry	Director
KZ3T, Dan.....	QSO Party Manager	WB0CON, Eva.....	Awards – WAS
N2WIE, Tony.....	Awards-1000+ Bars	WB6OJB, 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
00272	K9UXC	Allen J. Gharst - Loda, IL
01163	K5WX	Keith A. Zimmermann - Austin, TX
02852	W1VGY	Richard S. Bird - Arlington, MA
03599	K8VW	Verle D. Winningham - Fenton, MI
03747	WB6RFE	Grace L. Conrad - Sedalia, MO
04671	W6JEO	Carl W. Stengel - Goleta, CA
05915	K7OS	Philip D. Richardson - Tucson, AZ
11707	N4TI	Ralph T. Tilghman - Kingsport, TN
13067	WN6K	Paul E Dorey - Vista, CA
13178	WA3GYL	Michael J. Matto - Bradford, PA
13274	N4LT	Richard D. Wilson - Ooltewah, TN
13318	KK7H	Michael C. Hamner - Hurricane, UT
13376	W7LR	Robert E. Leo - Churchville, NY
16185	KA8X	Ronald F. Zander - Las Vegas, NV
16477	WA4MZL	George H. Stokes, Jr. - Lexington, KY
17053	WD9DID	Earl P. Anderson - Dousman, WI
17605	K4HAV	James D. Hardy - Tifton, GA
18535	WB9LKC	Raymond A. Sommers - Sharon, WI
19230	K4SMI	Robert D. Smith, Jr. - Yadkinville, NC
19974	K9DE	Robert J. Nellans - Argos, IN
20370	WB5PCO	Jerry L. Smith - Brenham, TX
22507	N3ANO	Torrance A. Viviano - West Mifflin, PA
23102	WA4U	Judy C. Oppert - Taylor, AL
23102	WA4U	Judy C. Oppert - Dothan, AL
24009	KA8ADB	Richard R. Boik - Gaylord, MI
24068	KB8RJ	John R. Staats - Petosky, MI
24987	W5IK	Michael L. Hodge - Ball, LA
25585	VE3REL	Hans Vandenberg - Manotick, QC
27057	KE0CQ	Donald R. Fuhs - Bartlesville, OK
27897	KA7CRN	Carl W. Hokkanen - Longview, WA
28028	N9ARW	Ronald L. Lacy - Hoopeston, IL
28113	KA1BC	David B. Gross - Penbscot, ME
28434	WA5RRT	Jeffrey D. Hawkins - Denham Springs, LA
30451	WB8NMK	Ronald F. Winke - Fremont, OH
30848	K7FIB	Richard I. Ellis - Sun Lakes, AZ
31172	WD9DMO	Albert E. Blaser - Sycamore, IL

10-10#	Call	Name - City, State
31418	KA7CRO	Martha F. Hokkanen - Longview, WA
31478	KD7JC	Stephen F. Collins - Kennewick, WA
32620	W6VY	Robert E. Dorchuck - Indio, CA
32773	W7SIR	John R. Barmore - Sandy, OR
33528	W5RNE	Richard L. Brooks - Clovis, NM
34548	KA4UPA	Peggy A. Richard - Abilene, TX
34630	WW5XX	James L. Hensarling - Uvalde, TX
35039	VE3LLO	Harvey S. Porter - North York, ON
35111	AD9I	Rondald G. Morgan - East Peoria, IL
35488	WA8IAL	Jack E. Wiswasser - East Lansing, MI
36549	K6UM	Stephen T. Lund - Newburg, OR
37522	K2EAO	Quentin J. Almquist - East Amherst, NY
40447	AI1Z	Donald R. Savini - Dansville, NY
41253	KQ9Z	Donn W. Baker - Lanesville, IN
42188	W5VVD	Robert Cathy - Kileen, TX
43099	W1SKP	Elmer N. Paquette - Wallingford, CT
44471	W7HRC	Gregory J. Pietrucha - Florence, AZ
45481	KB8CCN	Patricia J. Simmons - Waterford, MI
46650	KA1HPM	Nicholas P. Szydleik - Pittsboro, NC
46937	N3TBZ	Dolores A. Erskine - Newville, PA
47285	KA0EIC	Donald J. Fitzgerald - Salina, KS
50056	W1TYY	Justin L. Altshuler - Tampa, FL
50627	KA9SFT	David H. Ferguson - Beloit, WI
50978	KC6AWX	Bob Devine - Novato, CA
51150	KA2VEE	David R. Brooks - Pennellville, NY
51356	KB5CTU	Jerry G. Martin, Jr. - Haltom City, TX
51766	N0AWC	Robert R. Zohner - Ballwin, MO
52390	KA3UNQ	James C. Elliott - Gambrills, MD
52399	NQ3W	George A. Gadbois, Sr. - Silver Spring, MD
52578	WO2J	Mark W. Lehmann - Gold Hill, OR
52922	WA0AYS	Robert J. Melton - Lake Lotawana, MO
55968	N9JVZ	Raymond Sands - Sauk Village, IL
56320	W0ME	Alvin W. Wiechman - Salina, KS
57008	AA4YL	Cheryl K. Whitlock - Opelika, AL
59751	KC4UXI	Dan W. Goodpaster - Wellington, KY
60102	KW1Y	Walner Cadet - Stamford, CT
60296	N9JWY	Jerry A. Young, Sr. - Mulberry, IN
60400	N4XIG	Charles G. E. Stalfort, Jr. - Estes Park, CO
60477	WR2HM	Herman S. Meltzer - Boynton Beach, FL
60805	WD4AVU	Edgar M. Fleming - Manassas, VA
62489	N1RWM	Linda A. Allen - Bolton, MA
63307	N5JFM	Orvil L. Lewellen - Sheridan, TX
63715	N7NCN	Richard E. Golding - Sequim, WA
63909	AA1FW	James W. Peghiny - Auburndale, MA
63987	KA1OUS	William R. Lawrence, Sr. - Jasper, TX
66162	KT4NB	Dennis R. Powell - Montgomery, AL

10-10#	Call	Name - City, State
67098	W5EGS	Rodger D. Hoestenback, Sr. - Houston, TX
67129	AA1LP	Rudolph W. Pierce - Attleboro, MA
67862	W5ZTG	Bob L. Edwards - San Angelo, TX
68012	WA2OUV	Donald R. Brandt - Springfield, MO
68451	W4DAI	Daryl A. Isbell - Trussville, AL
68915	DF2WF	Frans-Josef Plum - Aachen, DEU
69343	WB9IGB	Paul T. Sanford - Swansea, IL
70225	WB9OKC	Michael D. Green - Baileys Harbor, WI
73466	N4ABC	Stephen C. Malis - Marietta, GA
74579	KD7DJE	Dianne E. Johnston-Hoffman - Mesa, AZ
74888	ND6M	James P. Doran - Shiloh, TN
75032	KC2AWX	Harvey Hechter - Fair Lawn, NJ
75307	KA5RUZ	Ralph A. Moulton - Norman, OK
76291	AD6LV	Raymond E. Railey - Lincolnton, NC
76364	K5CJU	Martin L. Varisco, Jr. - Hammond, LA
76842	KK6AHB	Stephen M. Stipp - Ramona, CA

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

THE SIMPLEST 2-ELEMENT YAGI?

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

Building a beam is not as difficult as it may seem. Of course, a many-element multi-band Yagi is an advanced exercise in design and construction. However, a 2-element Yagi for 10 meters is entirely manageable for the novice builder. Parts are available from almost any large home supply warehouse. About \$50 for all new materials will produce a very usable beam. Mast and rotator, of course, are extra, but a TV rotator and well-guyed mast will easily support a 10-meter 2-element Yagi. If necessary, you can turn the beam by the "Armstrong" method (hand rotation).

Figure 1 shows the general outline of one of two forms of a 2-element Yagi. Some designs use a driven element and a director. The design in Figure 1 uses a driven element and a reflector. The arrow indicates the direction of forward gain (toward the driven element or "driver"). The schematic symbol for a coax connector indicates the feed point.

In the December, 1990, issue of CQ, Bill Orr, W6SAI, presented "A Compact 2-Element Yagi for 10 Meters" (pp. 83-84). His design used a combination of 1" and 7/8" aluminum tubing, along with a gamma match for the 30-ohm feed point impedance. His beam was remarkably well-behaved. The gain varied from 6.86 dBi down to 6.08 dBi from 28 to 29 MHz, while the front-to-back ratio varied from a low of 9.09 dB to a peak of 11.29 dB.

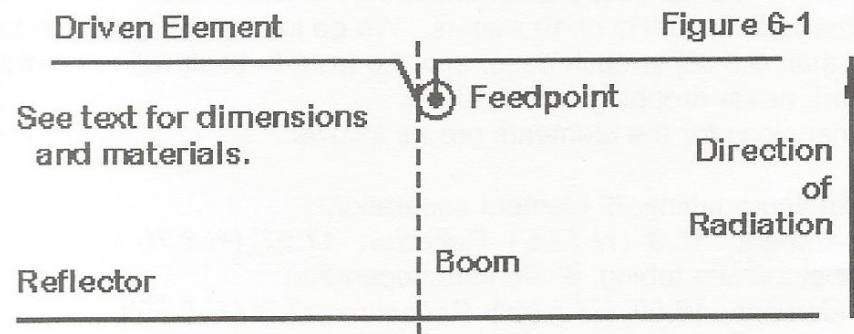


Figure 1. Element diagram

The beam was 17.5' at its widest with the elements separated 4.25'. Figure 2 shows the beam's pattern at the design center frequency (28.5 MHz). It offers neither the highest gain nor the highest front-to-back ratio obtainable with two elements, but it gives consistent performance over a wide bandwidth.

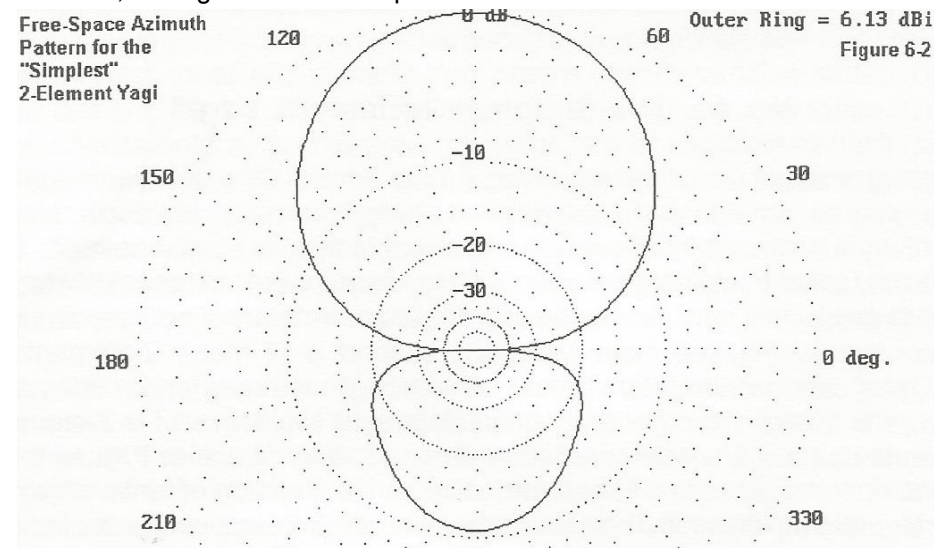


Figure 2. Beam Radiation Pattern

It is possible to simplify Orr's construction, using either 1" or 0.75" diameter tubing available from hardware outlets. Moreover, by separating the element 6', the feed-point impedance increases to 50 ohms, allowing direct feed (with a 1:1 balun).

In fact, with 6' element separation and the dimensions shown below, SWR is less than 1.5:1 across the first MHz of 10 meters. We do lose some gain and front-to-back ratio, but less than 0.5 dB in each case, and the front-to-back ratio is more consistent across the band, never dropping below 10 dB.

The dimensions for the elements are as follows:

1" diameter aluminum tubing, 6' element separation:

Driven element: 15.9' ($\pm 7.95'$) Reflector: 17.52' ($\pm 8.76'$)

0.75" Diameter aluminum tubing, 6' element separation:

Driven element: 15.98' ($\pm 7.99'$) Reflector: 17.5' ($\pm 8.75'$)

The driven element must be split at the center and fed like a standard dipole. To accommodate this, I mounted both elements on scrap plywood plates 3/8" thick, about 24" long and about 6" wide. Spar varnish the plywood for weather protection. A pair of #10 stainless steel nuts and bolts (with both flat and lock washers) mount each half element to the plate. The bolts at the center make a good attachment point for a balun or for a coax connector to mate with another on a balun. Small U-bolts can be used for the outer fasteners.

The reflector is longer than a pair of 8' aluminum tubes. I used a 1.5' long piece of tubing as the center for my 1" diameter version of the reflector. Inside was a 3' section of 7/8" diameter tubing that supported the 8' lengths of reflector tubing. The #10 hardware at the center goes through the center 1" tube, while the outer #10 hardware goes through (or around, if U-bolts) the 8' extensions. All the #10 hardware goes through the 7/8" tube. Additional sheet metal screws (also stainless steel) clamp the extension tubes to the inner tube at its ends, cutting down on vibration.

For a boom, I used a 6.5' section of Schedule 40 PVC, 1.25" nominal diameter. A pair of 1.5" U-bolts holds each plate to the boom. Thick PVC tubing works well up to about this length, but much longer might produce too much sag. The plates go under the boom, and the elements are below the plates. Connections to the center of the driven element go to an extra set of lock washers and nuts on the element mounting hardware. The balun and coax are then taped to the boom and mast.

There are very few cautions to give for this beam. Check dimensions. Be sure all metal-to-metal contact is very good. Use stainless steel hardware to avoid rust or using protective spray sealers that work their way between contact points. (However, use flexible coax sealer over any screw-type coax connection.) As with any beam, check both mechanical and electrical connections every few months and after any severe storms.

Although the beam will perform well from a 20' mast, a 35' mast (or higher, of course) is even better. Expect some gain, almost 2 S-units of front-to-back ratio, and excellent rejection of signals off the side. This beam will not open 10 meters during the sun spot null, but it may let you work some of the weak backscatter signals on the band. In addition, it is useful in nets since you can still hear locals off the rear while aimed at weaker signals. For versatility, the 2-element Yagi will certainly beat a fixed wire dipole hands down.

RAIDING THE HARDWARE STORE

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

Home-made antennas have no warranties. We build them, modify them, fix them, and then use the pieces for another project. We move them from the roof to a mast and from there to the attic. We fold, bend, staple, and mutilate them with great regularity. We do not have to think like manufacturers when we look for materials for small, experimental antennas. The hardware store will do just fine for 10-meter antennas (except for stock items like coax, ladder line, baluns, connectors, and #14 stranded copper wire).

Think "hardware store" if you build any of the following: attic antennas, portable or field antennas, experimental or short-term antennas, hidden antennas, "hurry-up-and-get-it-in-the-air-because-the-contest-is-about-to-start" antennas. By hardware store, I mean anything from the traditional shop to the giant home improvement depots.

The rule of thumb is this: if it is copper or aluminum, then it may be an antenna element; and if it is plastic—especially PVC or its offshoots—then it may be an insulator.

Here are a few examples to get your creative juices flowing.

1. Why tubing? Manufacturers use tubing for at least two good reasons. First, it is relatively strong among available antenna element materials. Secondly, it slips the wind better than most other economically feasible shapes. You can find aluminum tubing in sizes from 3/4" diameter to 1" diameter in many of the larger home centers. For 20-meter beams, I would stick to aircraft-grade tubing (6063-T832) for strength, but for 10-meter antennas, hardware store stock is very durable. You can find it in 6' and sometimes 8' lengths. Eight feet is just about half the length of a 10-meter element.

Without a good shop, working with tubing is inconvenient for many folks. Lining up holes for connectors is a bear if we only have hand tools. We often crush it with both regular bolts and U-bolts. So, for experimental and field antennas, why not use something else?

Angle aluminum is available in a wide variety of sizes. We can choose 1/16" or 1/8" thickness in half-inch or three-quarter-inch widths. I prefer the 1/16" thickness for its lightness and the 3/4" width because I can mount a coax connector right on the element (after grinding off two of the corners of the connector mounting plate).

Some years ago, I put together a collapsible square quad loop made from a combination of angle aluminum for the horizontal members and wire for the vertical. Construction and field assembly were a breeze because all the nuts and bolts went through flat surfaces. Any difference between the radiation of a

tube and a complex angled surface was washed out in practice.

Hardware stores also have flat aluminum bar and often you can find aluminum rods. The bar stock would flap too much as an antenna element, but it makes good connector straps in short lengths. If you can thread aluminum rod, you can link pieces, as I did some time back with a collapsible dipole. A tap and die set is a good investment for the home antenna maker.

While you are thinking about alternatives to tubing and #14 wire, consider both 300-ohm twin-lead and 450-ohm ladder line. You do not have to make folded dipoles out of them. Instead, just connect the wires together at the ends of an element to simulate a fatter wire for a slightly greater bandwidth than you can usually achieve with a single wire. For attic and field antennas, the slight weight difference may be offset by the wider QSY possibilities.

2. PVC: The usual steel mast and steel or aluminum tower is a marvel of engineering, and most handbooks show metal plates using metal hardware to mount a metal mast to a metal boom to metal elements. The operative ideas are durability and lightning protection. For many indoor, experimental, and field operations, these ideas are secondary, at best.

Schedule 40 PVC makes a good partial substitute for steel masting in short lengths. It works easily with hand tools. I have experienced no RF difficulties with it at 10 meters. I have used 1/2" to 1 1/2" diameters for various element support, mast, and boom exercises. The 2-element Yagi in a past episode used a PVC boom under 6' long, well within the sag limits of the tube. However, white Schedule 40 PVC from the plumbing department varies from one part of the country to another in its resistance to the effects of ultraviolet light. There is also a gray Schedule 40 PVC in the electrical conduit department. This material is certified as UV resistant. It pays to experiment with these materials on a non-critical project to see if they last in sunlight without becoming brittle quickly.

Schedule 40 PVC gives "nominal" or minimum diameters: the actual inside diameters are greater than the listed nominal diameter. 1.25" PVC has closer to a 1 3/8" inside diameter and a 1 11/16" outside diameter. 1" nominal will nest inside 1 1/4" nominal, but not tightly. However, most other sizes will not nest well or at all.

Consider the following portable dipole. The elements on each side of center are 3/4" and 5/8" aluminum tubes that slide into each other for carrying. The center insulator is a 2' to 2.5' piece of 5/8" dowel—a foot or so of antenna element over each end of the dowel. The dowel slides over the end of a section of TV masting. 5' sections of the mast put the antenna as high as safe and feasible, with rope guying. The dipole is turnable by hand over 90 degrees for nulling QRM into the element ends. Wherever the tubing fit is too loose, some electrical tape on the inner tube tightens the grip without gluing the assembly together. It all breaks down into a collection of tubes no longer than 5'

maximum. Nest what you can; then lash the bundle together with the guy ropes for transport. It is possible to drill a hole and fasten a coax connector to the PVC top mast section, or you can make up a little plate for it from some scrap aluminum.

For wire antenna element spacers, portable quad element supports and similar light duty functions, try some of the lighter-weight tubing available. Half and three-quarter inch CPVC tubing is available, as is Schedule 315. For both 90-degree and 45-degree corners, as well as for section couplings, there are fittings that glue together so permanently that I have never had one fail yet.

3. Flat and angled insulators: Sturdy plastic insulating plates are easy to fashion from thick freezer containers. They are temperature impervious for normal use lifetimes. The sides are either straight up or slightly angled, making good mount lips. A hacksaw cuts these 4" square containers into handy sizes, and a 5/8" hole saw for wood can cut a perfect coax connector hole. The uses are limitless, but the first use that comes to mind is as a center insulator for either straight wire or folded dipoles.

However, do not overlook round and "squared" plastic bottles for special uses. The semi-rectangular bottles used for some liquids have rounded 90-degree corners. Cut a pair of round holes (to match a boom, a mast, or an antenna element), one on each surface of a corner section. Squeeze the corner together and slip it over the mast, boom, or tube. Let go, and the corner grips well enough to withstand small loads and winds up to 45 mph. You can use this scheme to space feed line from a boom or mast or to suspend linear loading elements beneath a main element. Another very good material for this application is scrap from house vinyl siding. It has the advantage of being free (if you ask the installer politely).

4. Wood and the "auto" section: For most experimental, indoor, and field antennas, metal mast-to-boom and boom-to-element plates are not necessary (unless you just happen to have a stock of 3/16 to 1/4" thick aluminum). 3/8" or 1/2" plywood will do as well.

Put away the simple outdoor varnish, because it will not last long in the weather. Even marine-grade spar varnish requires regular renewal. Instead, look in the auto supply part or any of the X-mart stores for a can of auto body work fiberglass resin liquid (a two-part mix of resin and hardener). Prepare the wood by being sure that it is rough—to give the resin something on which to "grab." Spread the resin liberally over the plywood piece (already cut and drilled). Give special care to the edges, where plywood is very porous. Once dry, recheck the hole sizes for easy hardware passage and drill again as needed. If your wood plate is lumpy, sand the surface flat, but not down to wood again. If you slip up, retouch the area. Now your plate is sealed against weather much more perfectly than any varnish I have found. Note that I do not use the fiberglass cloth in this process. It is unnecessary for this application.

The one exception to my “no-paint” rule of thumb is epoxy paint made to seal concrete and similar benches, tables, etc. It does much the same work as auto resin and about as well, but is not always readily available.

5. Hardware: For antenna work, use stainless steel hardware (nuts, bolts, washers, hose clamps, etc.) wherever possible. Stock sizes are now readily available in the depot-type stores, and there are in many medium to large cities specialty suppliers of stainless steel hardware. If it is rustable, do not use it for an electrical connection out of doors. Beware, for example, of those little wire-end rings: most turn to rust in a few months.

For hardware that does only mechanical, but not electrical work, clear sprays can extend their useful lifetimes. Of course, such coatings take the hardware out of the secure grounding system. So if you need a ground lead from your antenna boom to the rod in the earth, run a separate flat braid, strap, or heavy wire. Do not rely on coated or rustable hardware for this job.

Stainless steel hardware generally does not react with other metals, such as aluminum. Different metals generally can produce corrosion even without weather to help the process along. So beware of combining aluminum and copper tubing and fittings.

This small listing is just the start. If you like to play with experimental antennas, especially for 10 meter, just wander around a hardware depot. Buy a few fittings that look promising and cheap just to stare at in your leisure. I am sure you will find a use for some of them in your next project. Remember: antennas do not have to look like commercial versions to do the job you need them to do. They just have to be electrically and mechanically sound enough as antennas and convenient enough relative to your situation.

The 10 Meter L-Antenna

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.

A large number of 10-10ers are just getting started. They are unsure of whether to go with a vertically polarized antenna or horizontally polarized antenna. They have heard that cross polarization reduces signal strength by some amount from 3 dB on upward. They do not yet know what the prevalent polarization is in the local area. They do not want to put a lot of money into their first antenna, but they would like to enjoy 10 meters for both skip and local contacts. They may also have some severe space restrictions. What's a person to do?

There is a simple and cheap solution. But first, a little background. For skip paths, polarization makes no difference almost all the time. The ionosphere skews polarization. Highly elevated beams have an advantage, but simple antennas perform well on 10 meters, whether vertical or horizontal.

Polarization makes the greatest difference with local area contacts, where line of

sight is the general rule. Some of the gang run verticals, some horizontals. How to get started before one discovers which types of operating are the most fun is the tough question.

Why not make a simple L antenna out of hardware store supplies, as in Figure 1. Suppose you have a typical rooftop about 25' up, and a chimney or similar solid mounting point. Less than 10' of aluminum tubing and less than 10' of copper or aluminum wire, along with some mounting hardware to keep the parts solidly mounted but insulated, will produce a nice compromise antenna.

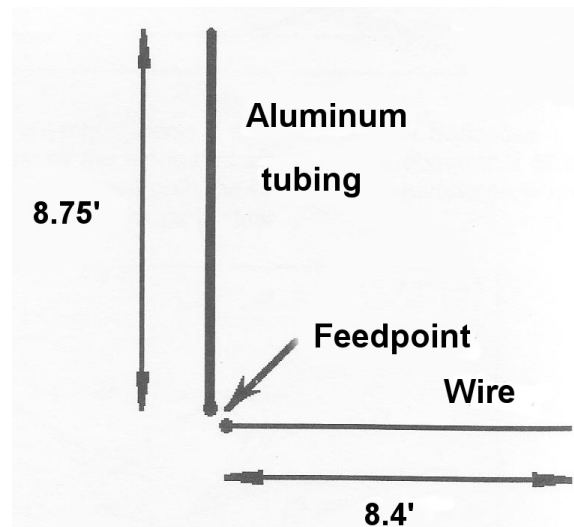


Figure 1. Simple 10-meter L-antenna

The vertical section consists of 2 pieces of tubing in the $\frac{3}{4}$ " diameter vicinity. The tubing is self-supporting once you fix the base area solidly. The horizontal portion is wire, perhaps running along the roof ridge, elevated at least a few inches and more if you can manage it. Dimensions are not too critical. You can adjust the wire horizontal part by pruning the far end. And you can adjust the vertical part by sliding one section of tubing inside the other before clamping.

Adjusting the antenna for minimum SWR will do just fine. The modeled feedpoint impedance is about 40-45 ohms, so it makes a good match for RG-58, RG-8, RG-8X and RG-213 coax. I highly recommend a choke balun, such as the W2DU ferrite-over-coax designs, at the feedpoint to minimize RF on the outer braid of the feedline.

What do you get for your \$15 investment? A pretty good local antenna with both vertical and horizontal polarization. The patterns in Figure 2 assume the antenna is mounted atop the typical 25'-high rooftop crest. As the patterns show, the vertical part produces a vertically polarized signal (and receives the same) that is almost as strong (or sensitive) as a pure vertical. The horizontal wire produces horizontally polarized signal (and receives the same) about half as good as a full size dipole. The result is a low-angle total pattern shaped like a kidney bean that will handle

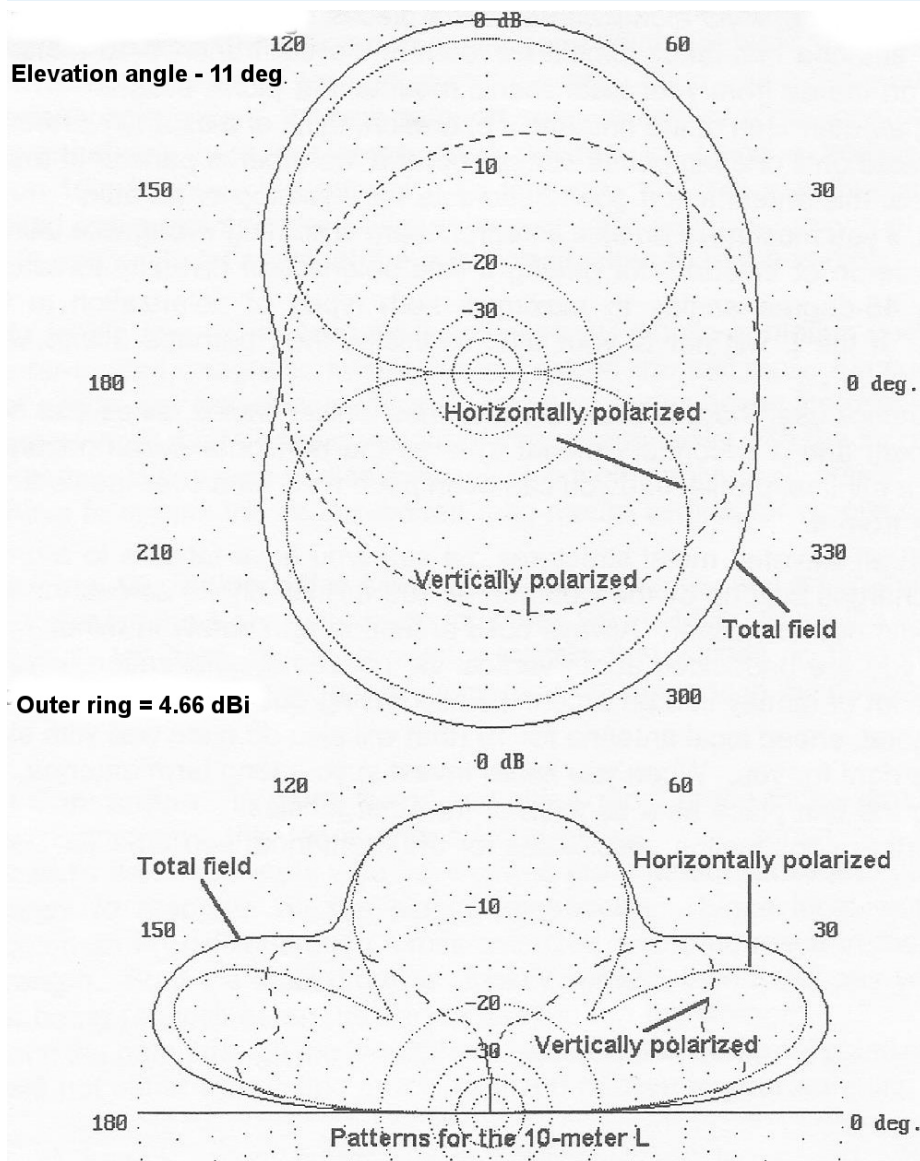


Figure 2. Patterns for the 10-Meter L

signals, whatever their polarization.

By using light tubing for the horizontal piece, with perhaps a collapsible AM radio whip as the end section, you can make up a dandy portable or hill-topper antenna. A few nesting sections of PVC along with antenna pieces that also nest when not in use will make an antenna that takes almost no room in the car trunk. 5-10 minutes work, and you are on the air from your local scenic mountain or picnic area.

To get a better idea of the antenna's operation, think of it as an inverted Vee that has been rotated until one leg points straight up and the other is parallel to the ground. Unlike the Vee, this antenna is a good candidate for a rooftop or an attic.

In fact, if you must have an attic antenna, there is nothing wrong with using a Vee, either right-side-up or inverted, for getting a little polarization diversity to catch all the locals. Use 45-degree angles to maximize both types of polarization in the best compromise. If the L will not fit your attic vertically, then perhaps a Vee will fit the space.

For outdoor use, the L is likely a better mechanical choice, since you need only one solid mount and a secondary mount to keep the horizontal wire horizontal. The antenna has a minimal profile, and you can even put a PVC tube over the vertical tubing and fly a flag from it.

As with all elevated metal structures, be sure you have fat wire to a ground rod to bleed off charges built up by the weather. A 100 mH RF choke across the feedpoint terminals would not hurt either. Always build antennas with safety in mind.

So, if you are undecided about vertical vs. horizontal polarization, if you do not want to put a lot of money into an antenna while finding out which you prefer, or if you just need a good, cheap local antenna for 10 (that will also do quite well with skip), then the L may be right for you. When you finally invest in your long term antenna, you may want to keep the L in place as a back-up or for emergencies.

For further construction possibilities for the L-antenna, See QST for Dec., 1999 pp. 52-45.

2022 Ten-Ten QSO Party Schedule

Event	Dates	Postmark
Weak Signal	Jul 9-10	July 18
Summer Phone	Aug. 6-7	Aug. 15
Sprint	Oct. 10	Oct 18
Fall CW	Oct. 15-16	Oct. 24
Fall Digital	Nov. 12-13	Nov. 21
Anniversary (60)	Jan 1 - Dec 31	Jan 8, 2023
Meeth the Volunteers	Jan 1 - Dec 31	Jan 8, 2023

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 page 31. 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 "60" in their membership number (i.e., 72060, 69605, 66054, 60126, 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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