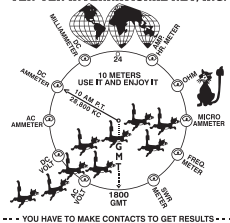


TEN-TEN INTERNATIONAL NET, INC.



# TEN-TEN INTERNATIONAL **NEWS**

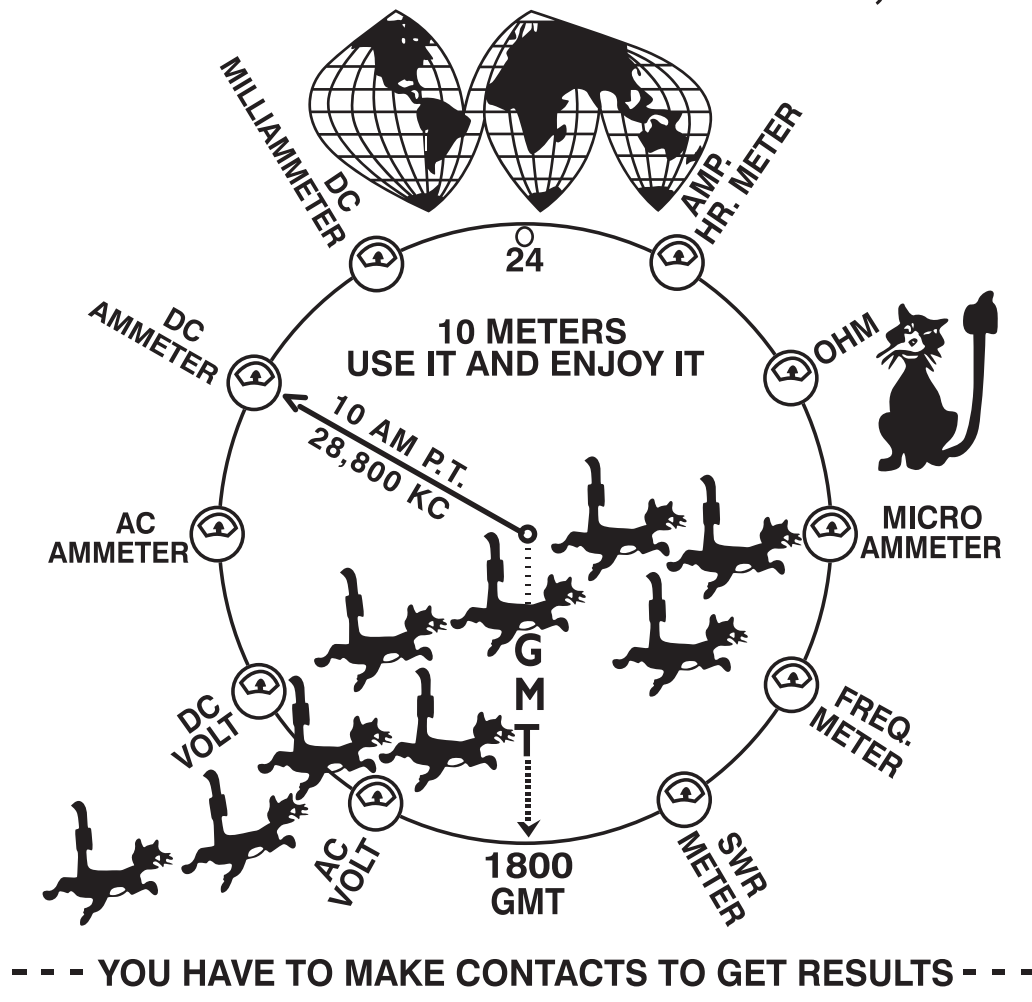


Member  
AMATEUR RADIO  
NEWS SERVICE

Volume 57 Issue 1

January 2019 (Winter)

## TEN-TEN INTERNATIONAL NET, INC.



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## The Ten-Ten International News

Is published four times annually by the TEN-TEN INTERNATIONAL NET, INC. Publication dates are approximately mid January, April, July and October.

Each paid-up member will receive a copy. This publication is the property of Ten-Ten International Net and the contributors therein. Permission to reprint is hereby granted, providing suitable credit is shown.

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, sent on computer disk or E-mail. Suitable formats will be provided upon request.

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

**DEADLINE FOR NEXT ISSUE: 1 March 2019**

**PLEASE MAIL ALL ARTICLES AND PHOTOS TO:**

**EDITOR Ten-Ten News**

**E-mail: [editor@ten-ten.org](mailto: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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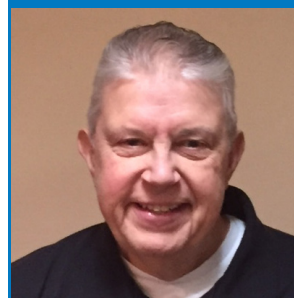
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# From the Editor

Randy Mather, AJ7B  
 (#7675)

Happy New Year everyone. I wish you and yours a great 2019. If my wishes had any kind of weight in the world, I would wish for more sun spots. Not likely to happen this year.

One thing that tweaked my interest late last year was the upgrade to the WSJT-X software package for FT8. Yes, they made the DXpedition version but they also added some features with version 2.0 that made it more compatible with contesting. These new features are great additions and good to see. I and my Ham Club will be using those features during our next Field Day outing.

However, those additional features still do not help us 10-10ers in the exchange that must be performed for QSO parties and the general gathering of 10-10 numbers for milestone certificates. I completely understand the difficulty and resources required to make FT8 compatible for all exchanges needed for the various organizations.

For those of us continuing our quest for more 10-10 milestones and newcomers looking to get their 10-10 number through FT8 contacts, the TX macros are still the way to go. If you want to know more about using TX macros, checkout the FT8 article on our website at [www.ten-ten.org](http://www.ten-ten.org). If you would rather see than read about using TX macros for the 10-10 exchange, click on the "FT8 HOWTO Video" link in the "Breaking News" area of the home page.

FT8 is still a mode that is evolving and Joe Taylor's team is still working on upgrades. This can only continue to fuel the growth of FT8 use on the bands. If you want to know more about WSJT-X software, please visit <http://physics.princeton.edu/pulsar/K1JT/wsjitx.html>.

For me, operating the 10-meter band in the northwest corner of the United States is a real challenge. It is a rare occasion to see any signals on the band much less work anyone. And that includes the FT8 mode. I tried to work the CW and Digital QSO party, but heard no one. I will keep trying and hopefully get to hear and work someone soon on 10 meters.

As this is the start of a new year, we have some changes in our board of directors. Mel Sojka is back as President. Greg Malone moved into the Vice President/ Secretary's spot while Dan Morris and Thomas Trissell now fill director positions. Be sure to read the President's article to learn more about these changes.

Randy - AJ7B #7675



## From the President

Mel Sojka KD5DE  
#33513

### UPPER LEVEL QRM

When I ended my former term in 2016 I had just lost my XYL due to an extended battle with dementia, a broken hip, and finally the widow maker pneumonia. This loss after 50 years of marriage set me back mentally and physically and I felt that it would be better not to be in office. I will never completely recover from my loss, but it is better for me to be active and make an effort to move forward. Activity is great therapy and this office does provide plenty of activity.

Now that we are at the solar minimum the next few years will be a challenge for all of us. We need to keep the interest up even while the band appears to be dormant. One proven method is to provide our Editor with enough content to publish a 32 page newsletter. We need shack photos, gathering photos, and general articles on amateur radio and 10 meters in particular. With a large membership, and with events every month in different locations, there should be numerous opportunities to gather photos. You will find that most hamfests welcome club tables where newsletters and handouts can be provided. Any current member is encouraged to pursue these outreach channels. Another point is that the solar minimum provides time to create new chapters in different parts of the country and around the world. This is a great time to do this so that when the conditions improve there will be strong local chapters to encourage DX presence on the morning or evening nets. There is no demand on having certificates, upgrades, or points. Weekly scheduled nets tend to encourage activity. Recently I moved our local net to Thursday evening to encourage local support. It had been on Saturday morning for many years as to allow the members from Europe to make contacts. Local chapters also provide a source for new members. Jim Fox, KA0ZPP #43428 is the director in charge of Chapters and he will be happy to provide you with the requirements and details. His contact info is on page 2 of this publication.

While we are on the subject of page 2, there are some other changes. First of all I want to welcome two new directors. Dan Morris, KZ3T #41015 has been a long time volunteer and our QSO party Manager for many years. He is now one of our Directors and I look forward to working with him in that

position. Tom Trissell KC5ILO #72239 has stepped in to be our Publications Director and I am confident he will be a valuable contributor at this position. You may also note that Greg Malone WA3GM #46927 has been elected as Vice President and along with that office he will become the Secretary. Due to charter requirements we are required to have a Secretary and since our BOD meetings are now on-line, one official can easily fill both offices. Of course, it is a pleasure to welcome back for another term Marcus Lieberman #71103. The BOD moved to create a new position to manage all aspects of our Social Media efforts. Mark Steele KD2NOM #77596 has volunteered to assume this position along with his SK Manager duties.

In the IT area, many of you may not be aware, but to keep the web site secure and up to date is a time consuming and tedious task. The site software was recently upgraded to keep the site in line with all current security and privacy directives. This was done by outside contractors under the watchful eye of our IT Manager Jeff Steinkamp N7YG #65084. The upgrade was done quickly and very few noticed any outage issues.

As always when you have new officers it means some of the previous have moved on. I would be amiss not thanking each of them for the valuable service they have provided while in office. Terry Webb N0TW #36547 provided the leadership as President while enduring the loss of his XYL and then finding another to fill that void in his life. With our Data Manager's assistance we were able to qualify and issue Terry's new wife a 1010 number at the Dayton Hamvention this past year. This is always a treat and was a pleasure to welcome Susan Webb, KN4MDC #77621 to 1010. Another volunteer that worked in the background was Roger Olson, AD4RX #67754 serving many terms as the publications manager. It is always a mistake to mention any individual volunteer that has served, because all those who have served over the years are worthy of our thanks and appreciation. There is always a need for volunteers and we have committees without enough members. This is hard to understand with such a large membership. We always have and always will need volunteers. We have a need for folks skilled in grammar and composition. We need a volunteer to provide General Counsel. Considering the age on many of our officials, we will be in need of Directors and Managers in the near future. This is the electronic age and you can fill these positions and still be employed. We need volunteers to promote 1010 at hamfests and amateur gatherings. Trust me if you volunteer to serve we will find you a place of service,

The issue of new modes in use on the bands will always be a subject of discussion and sometimes controversy. If 1010 is going to grow and survive the membership number must be passed on the air. This is true no matter what mode is in use. Our mission statement is to promote the use of 10 meters. It is not to promote the use of lookup software. Without the passing of the required contact information on 10 meters it will be impossible to recruit new

members. To qualify for membership the following information must be obtained on 10 meters from a member: call sign, name used on the air (not in the FCC database), 1010 number, and state (not grid square). If this is not accomplished under all circumstances, including during QSO parties, we will eventually cause the demise of an organization that has been 57 years in the making. I encourage each of you to maintain these standards.

This is a note from our Scholarship Manager Larry Berger WA2SUH #407. Through donations by our members, since 1988 10-10 has supported college scholarships administered by the Foundation for Amateur Radio. This year we are sponsoring four \$2000 scholarships. Even though 10 meter conditions have been very poor and most of us haven't been able to work each other on the air, let's not forget about our 10-10 Scholarship Program. The most recent winners were featured in the Fall News. Even small donations help and the students can use your support. Please consider making a donation this year. There is information about the Scholarship Program elsewhere in this issue.

God Bless & 73  
Mel KD5DE #33513

## Ten-Ten Top Operator Award

This award is based upon the number of times a member's call appears on new applications. Quarterly winners are awarded a certificate. The overall winner for the year will be awarded a plaque. There are two categories; one for Net Control station and one for the current members at large.

This award is based upon the number of times a member's call appears on new applications. Quarterly winners are awarded a certificate. The overall winner for the year will be awarded a plaque. There are two categories; one for Net Control station and one for the current members at large.

The Top Operator and Net Control for Q3 are:

Operator - **N5MT Mike Davidson #24949**

Net Control - **N0TW Terry Webb #36547**

The Top Operator and Net Control for 2018 are:

Operator - **N5MT Mike Davidson #24949**

Net Control - **N0TW Terry Webb #36547**

## NEW LIFE MEMBERS

34918	NØDGC	Robert Hall	AZ
50846	WA7ETH	Hugh E Empey	WA
52151	KM5OX	Don R Loving	OK
76183	NQ6A	David R Quillen	KY

## From the Past President

As we begin 2019, I would like to thank our officers and members for your continued support during a bleak time of 10 meter operation.

December was my last month as President of 10-10 and it has been a real pleasure working with an outstanding group of dedicated hams. There have been lots of great eyeball QSOs shared with members at hamfests across the USA.

Last month (November) the panhandle of Florida had a devastating hurricane (Michael) hit and I helped by being net control on a 75 meter net for 11 days. This hurricane hit with Level 5 intensity - creating loss of property and life in Gulf, Washington, Walton, Okaloosa, Bay, Calhoun, Leon, Liberty, Holmes, Jackson, Wakulla, and Gadsden counties. There are many homes and businesses that were completely destroyed. Cleanup has taken a long time with lots of debris still not collected. One local electrical utility quit counting with over 1,000 power poles snapped in half. Power is still not restored to all families.

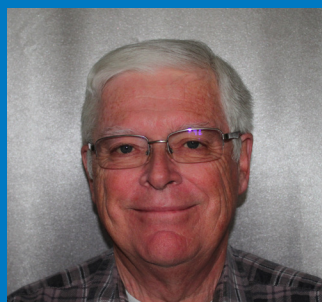
My county (Jefferson) was on the Eastern edge of the hurricane and suffered just high winds (81 miles per hour). I experienced minimal antenna damage. My 75 meter antenna is a full-wave loop up at 110 feet and it performed exceptionally well during the storm. Our net was able to get a life-flight helicopter to rescue a firefighter that needed immediate medical attention to the hospital saving his life. All cell towers, police, fire and EMS radios were destroyed by the hurricane and it was only because of ham radio that this man's life was saved.

Although ham radio activities associated with this hurricane did not involve 10 meters, as ham operators we have an obligation to help in case of emergencies and I was fortunate to be able to assist.

I am looking forward to better propagation when 10 meters will return and give us all lots of QSOs. Good luck to all our new officers.

Terry N0TW #36547





## 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 April, May or June, please let me know before March 1st so I can include the details in the April newsletter.

3) Reminder of Quarterly Reports Due: **In Extremis** (no report in over a year): 10 Bar-X, City of Lights, Minuteman/Old Ironsides, South Central Illinois Ten Meter Club. **Past Due** (no report received during the prior quarters when due): Bauxite, Channel Islands, Down Under, Major League Baseball. Reports received after December 1 (date of this report) are not included here and will be acknowledged in the Chapters section of the 10-10 website.

Chapter Reports **Due during first quarter:** Fort McHenry/Cornerstone/Yodar Kritch (Mar), New Mexico Mud Ducks (Feb), Sky Blue Waters/Tin Lizzie (Jan), Twin Cities (Jan). Note that Quarterly Chapter Reports may be sent any time. The months indicated here are the dates in 2018 in which the last report was received.

4) I thank **ALL CH/CM** who sent me a **complete report** during 2018 so I have up to date contact and net information. Other chapters, please send me a complete report in 2019. See [www.ten-ten.org/index.php/resources/ten-ten-documents/ten-ten-forms](http://www.ten-ten.org/index.php/resources/ten-ten-documents/ten-ten-forms) for a form to download or fill out and submit electronically.

5) Poor propagation in recent years has certainly had an effect on Chapter Net activity. If any of you have ideas on ways to increase participation in our Chapters, please contact me at the address given below. One of the primary purposes of Ten-Ten International is to promote activity on this band, especially in such times as these. I welcome your input.

### CHAPTER NEWS

1) Good news about the **Louisiana Pelican** chapter. Mike, N5MT, has

helped the group reorganize under Jim, W5JY, as Chapter head and Mike as Certificate manager. Nets will continue on Saturday at 1710/1610 UTC on 28450 from Baton Rouge. Jeff, WA5RRT is net control.

2) N1API, AI, CH of **Castle Craig**, reports that the Meridian ARC Inc., the chapter sponsor, has club meetings twice a month. Their Nutmeg Hamfest draws about 350 people each year. Many of the club members are 10-10 members, and they strive to get new members interested in 10-10 and participating in 10-10 cotests.

3) **CATT** chapter has changed their winter net time to 0200 UTC during winter months.

4) **Santa Fe Trail** runs specials almost every month. Watch for posts on the TenMeters email list from CH Larry, KA9PCU, for details. CH Larry is also looking for an assistant to learn the ropes of running the chapter. If you are willing to help, or want more information, contact Larry at (309) 342-5977 or (309) 299-0246.

5) Chapters below accept email upgrades as of August 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 the event that the CM should require verification. Requirements peculiar to a particular chapter are noted.

(\*\* indicates change)

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**Space Coast** – Now QRT. \*\*

**Speedway** – CM W7CAR, [w7car@arrl.net](mailto:w7car@arrl.net)

**Steamboat Plus** – CM KD5DE, [kd5de@nwla.com](mailto:kd5de@nwla.com)

**Twin Cities** – CM K0DBK, [kzerodbk@gmail.com](mailto:kzerodbk@gmail.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](mailto:ka0zpp10ten@gmail.com)

## TEN-TEN NET GUIDE

As of November 30, 2019

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	
SUN	0001	0100	Chesapeake Bay	Chestertown, MD	28345	
SUN	1300	1400	Arlington	Arlington, VA	29200	
SUN	1400	1400	Neanderthal Chapter	Leichlingen, DL	28355	
SUN	1630	1730	Possum Trot	Raeford, NC	28345	
SUN	1700	1700	Major League Baseball	Gilbert, AZ	28380	
SUN	1800	1900	Portland 500	Portland, OR	28350	
SUN	1900	2000	Oregon Trail	Dallas, OR	28330	
SUN	1930	1930	North Georgia	Atlanta, GA	28410	
SUN	2030	2030	Santa Fe Trail	Galesburg, IL	28345	
SUN	2100	2200	Possum Trot	Raeford, NC	28150	CW
MON	0100	0100	Arizona Desert 10-10 Net	Phoenix, AZ	28445	
MON	0100	0200	Milwaukee	Milwaukee, WI	28365	
MON	0100	0100	Lonestar	Arlington, TX	28460	
MON	0100	0100	So. Illinois Ten Meters Club	Centralia, IL	28405	
MON	0130	0230	Bauxite	Benton, AR	28470	
MON	1630	1730	Chief Seattle	Seattle, WA	28430	
MON	2330	2330	Sky Bl Wtr/Tn Lzz/Twn Ct	Inver Grove Heights, MN	28380	
TUE	0001	0100	Ft McHenry/Cornerstone/Yodar Kritch	Arbutus, MD	28370	
TUE	0100	0200	CO Centennial/CO Frontier Gang	Lakewood, CO	28340	
TUE	0100	0200	City of Lights	St Charles, IL	28150	CW
TUE	0130	0230	City of Lights	St Charles, IL	28720	
TUE	0130	0230	Bauxite	Benton, AR	28470	
TUE	0300	0400	Bay Area	Hayward, CA	28475	
TUE	0430	0430	Aloha	Hilo, HI	28490	
TUE	1500	1600	New Mexico Mud Ducks	Albuquerque, NM	28835	

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	
T/W	2330	0030	Minuteman/Old Ironsides	Saugus, MA	28409	
WED	0001	0100	Castle Craig	Meriden, CT	28375	
WED	0100	0200	Cincinnati Area Ten Tuners	Milan, IN	28430	**
WED	0100	0200	Houston SHOT	Houston, TX	28488	
WED	0200	0300	10 Bar X	El Paso, TX	28445	
WED	1400	1500	EU DX/Branding Iron	Bergamen, DL	28355	
WED	1700	1700	Gold City	Rutherfordton, NC	28425	
WED	1930	1930	Route-66	Boonville, IN	28370	
THU	0001	0100	Cradle of the Confederacy	Pike Road, AL	28350	
THU	0100	0200	Gateway	St. Louis, MO	28650	
THU	0100	0100	Cow Town	Arlington, TX	28460	
THU	0100	0200	Milwaukee	Milwaukee, WI	28365	
THU	0230	0230	Windfarms	Livermore, CA	28450	**
THU	0230	0330	Up The Crick	Eugene, OR	28450	
THU	1930	1930	Speedway	Rainer, OR	28350	
FRI	0001	0100	Fort McHenry/Cornerstone/Yodar Kritch	Arbutus, MD	28370	
FRI	1400	1400	Hanse	Hamburg, DL	28355	
FRI	2230	2130	Down Under (Summer in NZ is winter in US)	Auckland, ZL	28530	
SAT	1430	1530	Steamboat Plus	Shreveport, LA	28430	
SAT	1710	1610	Louisiana Pelican	Livingston, LA	28450	**
SAT	1730	1730	Tango	Buenos Aires, LU	28650	
SAT	2200	2200	Alii	Lihue, HI	28730	



## DX News

Mike Davidson, N5MT  
(#24949)

I began creating this issue of the DX news on October 9th while waiting for the 10-10 Day Sprint to start. Propagation the past ten days has been poor with only one day of some DX skip into South America and USA. I managed to work about two dozen contacts during the Sprint. Most of them were DX from South America and no 10-10 DX members. The only members were locals. Now that the results are posted on the 10-10 website, I see I was in the top ten, hi.

This addition of the DX News makes my 114th issue, which computes to 28 ½ years of writing about 10-10 DX. In June 1990 at the 10-10 Convention in Texas, the President of 10-10 asked me to write a DX article for the News. I agreed to being the DX Editor which started slowly. I decided to name my articles the TenX DX, which is a play on words/letters of Roman numeral X which stands for ten. So TenX equals 10-10, hi. I just added the DX News to formalize the title a bit more and that was history. I am not sure if my article is the oldest running one in the News but I think it is. I have worked with several News editors over the years and I plan to be here for a few more years.

I have been looking at the statistics of the Sun which have been recorded since 1849. Specifically, the number of days when the Sun does not pop up a sunspot on its surface. Several sites around the world have been recording this data and now computer analysis has resulted in some trends. Look at the website SILSO: [www.sidc.be/silso/spotless](http://www.sidc.be/silso/spotless). There are several graphs and stats that will show complex correlations between solar cycles so pay careful attention to what you are looking at.

As of the October 2, 2018, the Sun has had 272 spotless days during this current cycle. This puts the outgoing cycle 24 into the top 25 events with still more days to come before cycle 25 starts. The previous minimum in 2008, had the 4th largest number of spotless days on record.

It is time to recognize an old 10-10 member who was a great CW op, Jan Carman K5MA #4994, who died of Alzheimer's complications in November. Jan was a professional engineer who put his seal on my tower drawings so the City of Houston could give me a building permit for my ham radio tower in 1982. Jan learned CW as a teenager and Jan could coast along at 35+ wpm

with his FOC friends.

Another note, the First Class CW Op Club now have a new web page that is open to all. A new CW guide that can help hams learn or improve their CW is available. Website at: <https://G4FOC.org/Improving-Your-CW>.

I am not looking forward to the 2018 ARRL Ten Meter contest next weekend. I always try to find 10-10 members during this contest but poor skip this year will mean fewer stations will be active. The 2017 Ten meter contest was my last big contest with my old tower and yagi in Houston before I moved to Louisiana. I now have a vertical antenna as my primary HF antenna. I have just installed a 220 volt circuit for my HF amplifier in the new radio room but without skip and DX to work, will make for a slow weekend and lower contest scores for everyone. So good luck on Ten.

Since this is my last comments of 2018, Merry Christmas and a Happy New Year to all, especially our DX friends. 73

**Countries Award:** There were no Countries Awards submitted this quarter. A DXCC Most Wanted list is available at: <https://secure.clublog.org/mostwanted.php>.

I am posting this to the 10-10 website on December 1st.

### GENERAL 10-10 DX REPORTED IN THE PAST QUARTER:

**5B4 Cyprus.** Spyros **5B4MF** #36931 and friends, were on the air as C4A during the CQ WW contest in October.

**A3 Tonga.** Tom **GM4FDM** #31864 and friends, were on Tonga at the end of November using CW SSB and digital.

**A4 Oman.** Mike **K9NW** #29804 and friends were at A44A during the CQ WW CW DX contest in November.

**AH2 Guam Island.** Toshi **J13ERV** #39995, was with friends for the CQ WW CW DX contest with call AH2R.

**C4 Cyprus.** Spyro **5B4MF** #36931, was with a group of Cyprus ops using call C4A during the CQWW DX SSB contest at the end of October 27-28th. LoTW.

**C6 Bahamas.** Rich **N0HJZ** #41614 was using call C6ARW from November 20-27th in the Bahamas.

**CU Azores.** Herman **HB9CRV** #72110, was on the Azores using call CU8FN during the CQWW CW DX.

**EA9 Ceuta and Melilla.** Haru **JA1XGI** #55571, was on the islands as EA9/W1XGI from October 16-22nd. Haru likes to operate CW and FT8. LoTW or bureau. Web site is: <http://island.geocities.jp/EA9Melilla>.

**HH Haiti.** William **KO7SS** #8631 was in the CQ WW CW DX contest in the last weekend of November using call HH2AA. LoTW.



**J8 St. Vincent.** Alan **K7AR** #2736, was using call J8NY from November 10-25th.

**KP2 US Virgin Islands.** Tony **N2TK** #22425, was on St. Croix for the CQ WW SSB DX contest in October.

**KG4 Guantanamo Bay.** In October, two US ops had permission to fly into Guantanamo Bay and operate from the club station on the base. The only 10-10 member was Bill **W4WV/KG4WV**. Keith KG4DY helped with the station but Keith is not a member.

**KH6 Hawaii.** Rich **N0HJZ** #41614 and Dan **W0CN** #27026, were with friends using call KH6J during the CQWW DX SSB contest at the end of October. LoTW.

**J8 St. Vincent Island.** A group of ops including Alan **K7AR** #2736, were on St. Vincent from November 21-28th during the CQ WW CW DX contest using call V8NY.

**OH0 Aland Island.** Mart **DL6UAA** #54230, was on Aland Island from November 20-23rd. Mart used call sign OH0/DL6UAA on CW and digital during his stay.

**P2 Papua New Guinea.** Roly **ZL1BQD** #19039, was using call P29RR in November until December 4th.

**P4 Aruba.** John **W2GD** #14109, was back on Aruba from November 19-27th. He operated CW in the contest.

**PJ2 Curacao.** Tom **VE3CX** #11671, was active as PT2T with friends during the SSB contest at the end of October. He would have used PJ2/VE3CX outside of the contest.

**PJ4 Bonaire.** Scott **W4PA** #40521 was with friends on Bonaire from November 18-25th. Call used was PJ4Q in the CQ WW CW DX contest in November. John **K4BAI** #45389, was also in the CW contest from a different location on Bonaire using call PJ4G.

**PJ7 Sint Maarten.** Philip **N2HX/WA1ZAM** #25435, was back on the Dutch side of the island operating PJ7PL from October 20th to November 4th. SSB, RTTY and FT8.

**V2 Antigua and Barbuda.** Phil **K3TUG** #71971, was with a group of ops in the CQ WW SSB DX contest in Oct.

**V6 Micronesia.** Shoji **JA7HMZ** #30900 was on Poknpei Island from November 19-26th using call V63DX on digital. Shoji used call V6A during the CQ WW CW DX contest.

**VP2E Anguilla.** Two operators were on Anguilla from November 18-25th during the CQWW CW DX contest using call VP2EAB. They were Art **WA7NB/**

**VP2EJS** #74754 and John **N2LK** #52502. LoTW.

**VP2M Montserrat.** A group of four USA ops were on Montserrat from late November to early December and each op had a different call. The 10-10 members were Rich **NS7K** #69767 using call VP2MSK and Charlie Brown **WM7Z** #42156, was using call VP2MMZ. Look on QRZ.com for QSL instructions. LoTW.

**VP6 Ducie.** A two-week DXpedition from October 20th to November 1st, used call VP6D. It has been ten years since the last DXpedition operated from Ducie Island east of Pitcairn Island in the South Pacific. Arnie **N6HC** #29959 and Gene **K5GS** #15119 were the only 10-10 members of the large group of ops. Several 10-10 members have been to Ducie in the past, so this operation will not be a new country, as some of us have credit for Ducie.

**XV Vietnam.** Mats **SM6LRR** #34451 now has call sign RM2D and traveled to Vietnam from November 19th to December 1st. He operated the DX CW contest from November 24-25th. He operates SSB, CW and digital modes on HF. LoTW or QSL to SM6LRR.

**Z3 Zimbabwe.** A DXpedition into Zimbabwe by team leader Antonio **IZ8CCW** #70101, took place from October 26th to November 6th. The callsign was Z23MD with about twenty ops on the air with five rigs. The website is: <http://www.MDXC.org/Z23MD>.

**ZL7 Chatham Island.** A DXpedition of just three Japanese ops was on Chatham from October 16-22nd. The only 10-10 member was Shige **JH1GNU** #6099 who has been a long time 10-10 member. Shige likes to run CW on the bands so he was hard to find on Ten using call sign ZL7X. Website: <https://www.qrz.com/db/ZL7X>. LoTW.

#### UPCOMING DX & NEW 10-10 ACTIVITY:

**3D2AG Rotuma.** Antoine **3D2AG** #72719, is still trying to return to Rotuma in December 2018. Good luck.

**4U1UN United Nations NY.** The **4U1UN** #55555, club station is 90% complete and the remote station will hopefully be finished by January 1, 2019.

**CY9 St. Paul Island.** A group of twelve operators that visited the island in 2016, will be back in August 2019. They will setup two sites like in the past, with six ops at each site. There are three 10-10 members: Randy **N0TG** #12990, Dan **W4DKS** #5395 and Will **AA4NC** #15774. All bands/all modes including EME by WW2DX. Website is: <http://www.CY9C.com>. LoTW and ClubLog for QSL.

**FP St. Pierre & Miquelon Islands.** Eric **KV1J** #31247, will be back for his 13th trip to Miquelon operating as FP/KV1J from September 24th to October 8, 2019. Mostly SSB, RTTY, FT8 and some CW. LoTW. Website at : [www.KV1J.com/FP/Sep19.html](http://www.KV1J.com/FP/Sep19.html).

**V47 St. Kitts and Nevis.** Bernie **W3UR** #25731 and his wife Becky N3OSH, plan to be at Calypso Bay from January 8-20th. He will use a K3 running low power to vertical antennas, and his call will be V47UR. LoTW.

**XX9 Macao.** A large group of Germans will be in Macao from February 11-26, 2019. The only 10-10 member is Uwe **DJ9HX** #22877. All bands/modes with several stations on 24/7 with FT8 and RTTY. <http://XX9D.mydx.de>.

**YS El Salvador.** Tom **KC0W** #67688, is on the road again going to El Salvador from February 16-22, 2019. He will be using call sign YS1/KC0W. LoTW.

#### MISCELLANEOUS ITEMS & NOTES:

**Propagation forecast:** <http://www.solen.info/solar/>, [www.SolarHam.net](http://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>.

**Propagation:** I expect the solar flux to range from 65-75 during the Winter of 2018. The Winter Solstice is on Dec. 21st, when HF propagation shifts to an east/west path. This change of season also marks the best time for DX into Europe and Asia, if only we had propagation on Ten. Propagation all depends on how much the Sun ionizes the atmosphere to let our radio waves bounce across the earth's atmosphere as skip.

Our solar cycle #24, peaked in February 2014 at 170.3. Cycle #24, is slowly going through the solar minimum phase until we begin cycle #25, probably in 12-17 months. The natural cycle of the sun is 11 years and we are now almost ten years into cycle #24. Cycle #25 could start as early as January 2020 and then it takes two years of building sun ionization before we get better skip conditions.

The monthly maximum solar flux 2018: Jan 71, Feb 79, March 70, April 77, May 77, June 82, July 73, Aug 72, Sept 70, Oct 72 and Nov 73.

The monthly minimum flux for 2018: Jan 68, Feb 67, March 67, April 66, May 67, June 67, July 66, Aug 67, Sept 66, Oct 67 and Nov 66.

**On Dec. 1st, the solar flux was 68, the A index was 2 and K index 2.** There were few solar flares this fall and the solar flux high for last winter was many points lower than the May 2016 high of 123. The short term solar flux for the next 45 days will be 68 to 70 thru January 12th.

**My Prediction:** Over the next three months, the best conditions could be: December 12-15th, January 2019 8-12th, February 4-8th and March 2-5th. For the lower USA, expect a 8% chance of DX to Europe or Asia with a 25% chance of DX to South America and the S. Pacific, later in the day. Listen to the

CW beacons from 28.175-28.300 for path information.

**We had no 10-10 DX members join from Sept to November 2018: Sept:** None; **Oct:** None; **Nov:** None

Thanks to the QRZ-DX, The Daily DX by W3UR #25731 and the Ohio/Penn DX Bulletins. Info to Mike Davidson, 26274 Whispering Pines Ave, Denham Springs LA 70726 USA Email: [N5MT@aol.com](mailto:N5MT@aol.com).

**DX IS!** 73 Mike Davidson N5MT #24949

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## Ten-Ten International Net Breakfast Club

In 1983, Steve KD5ZD had gotten his Advanced Class License and was listening on the 10-meter band one evening when he discovered the Ten-Ten International Net. This organization of amateur radio operators was founded in 1962 and promotes usage of the 10-meter band. The Net Controller at that time was Tom W5GVP. When Tom asked for check-ins, Steve checked in. After three weeks of joining in on the nets, Tom invited Steve to join the group for Breakfast & Coffee at 8 a.m. on Saturday morning at the Crossroads Cafe in Arlington, Texas. The cafe was a real greasy spoon! Steve joined the Breakfast & Coffee bunch and later became a member of the Ten-Ten International Net. Steve said that this original group included Tom W5GVP, Tiger K5TGE, V.V. N5POS, and a few other 10-10ers that are now silent keys. Tiger and V.V. were former fighter pilots in World War II. Steve KD5ZD and Phil N5PWW have fond memories of their get-togethers.

In 1989, after the Crossroads Cafe closed, the Ten-Ten International Net group started a search for a new place to meet. They found the Pioneer Restaurant in Arlington. The group has been going there ever since and having a blast!

Nine years ago, Bill W5WJH joined up with the group at the Pioneer Restaurant. Not long after that, Bill took over as Net Controller of the Cowtown and Lone Star Chapters of the Ten-Ten International Net. Both nets are at 8 p.m. CDT at 28,460 MHz. The Cowtown Net is on Wednesdays, while the Lone Star Net is on Sundays.

All the guys in the group are retired and former military.

John (N5WYR #62116) was retired air force. He became a silent key a couple of years ago.

Recently, there have been some changes. Johnny NJ5T has moved to a home in the country in Mexia, Texas. Steve KD5ZD will soon be moving to a country home outside of Weatherford. Johnny and Steve will be greatly missed and we hope they will come back and visit us from time to time.





John Soliday N5WYR (SK) #62116

The Ten-Ten International Net Breakfast Club currently meets at 7 a.m. on Fridays and Saturdays at the Pioneer Restaurant. Group members include Bill W5WJH, Brad KG5KDJ, Dave KF5UNP, Gray KG5CEA, Phil N5PWW, Ray WD8JKY, Rob W5WS, and Virginia NV5F. A new addition to the group, Mary AE6Q, made a copper plaque with the Ten-Ten International Net logo on it.

The owner of the Pioneer Restaurant gave the group permission to hang the plaque on the wall at the corner booth where the group meets. This plaque is to commemorate a great group of amateur radio operators who have a great sense of humor and are a lot of fun!



Gary KG5CEA, Bard KG5KDJ #77601, Mary AE6Q #77634, Phill N5PWW #55863, Ray WD8JKY # and Steve KD5ZD #37258



Mary AE6Q #77634, Bill W5WJH #75735, Phil N5PWW #55863, Steve KD5ZD #37258, Virginia NV5F #75654 and Rob W5WS #74261



Troy W5AU #10279 and Bobby WB5OSD #29453 at the 10-10 table at the Minden Hamfest in Minden Louisiana.



# Net Report

Bob Farrow, N6OPR  
(#45715)

## Net reports for 3rd Quarter 2018

### MONDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
2-Jul	2	0	2-Jul	7	0
9-Jul	3	0	9-Jul	9	0
16-Jul	2	0	16-Jul	8	2
23-Jul	2	0	23-Jul	12	0
30-Jul	2	0	30-Jul	9	0
6-Aug	2	0	6-Aug	6	0
13-Aug	2	0	13-Aug	9	1
20-Aug	2	0	20-Aug	6	0
27-Aug	2	0	27-Aug	10	0
3-Sep	2	0	3-Sep	7	0
10-Sep	2	0	10-Sep	8	0
17-Sep	2	0	17-Sep	11	0
24-Sep	2	0	24-Sep	8	0

### TUESDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
3-Jul	8	1	3-Jul	2	0
10-Jul	14	0	10-Jul	2	0
17-Jul	10	1	17-Jul	3	1
24-Jul	9	0	24-Jul	8	1
31-Jul	9	0	31-Jul	5	0
7-Aug	10	1	7-Aug	5	0
14-Aug	16	0	14-Aug	5	0
21-Aug	12	0	21-Aug	2	0
28-Aug	9	1	28-Aug	2	0
4-Sep	10	0	4-Sep	2	0
11-Sep	8	0	11-Sep	2	0
18-Sep	7	0	18-Sep	2	0
25-Sep	8	0	25-Sep	2	0

### WEDNESDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
4-Jul	24	2	4-Jul	8	0
11-Jul	20	2	11-Jul	8	0
18-Jul	14	0	18-Jul	3	0
25-Jul	31	3	25-Jul	3	0
1-Aug	10	0	1-Aug	2	0
8-Aug	10	1	8-Aug	6	0
15-Aug	13	0	15-Aug	4	0
22-Aug	7	0	22-Aug	6	0
29-Aug	9	0	29-Aug	6	0
5-Sep	10	0	5-Sep	3	0
12-Sep	12	1	12-Sep	5	0
19-Sep	9	2	19-Sep	4	0
26-Sep	6	0	26-Sep	6	0

### THURSDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
5-Jul	15	1	5-Jul	7	2
12-Jul	29	9	12-Jul	3	1
19-Jul	28	3	19-Jul	3	1
26-Jul	19	3	26-Jul	2	0
2-Aug	21	3	2-Aug	3	0
9-Aug	9	1	9-Aug	4	1
16-Aug	8	0	16-Aug	3	0
23-Aug	9	0	23-Aug	5	2
30-Aug	6	0	30-Aug	2	0
6-Sep	7	0	6-Sep	6	0
13-Sep	10	1	13-Sep	5	1
20-Sep	8	0	20-Sep	6	1
27-Sep	4	0	27-Sep	4	0

### FRIDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
6-Jul	3	0	6-Jul	10	0
13-Jul	34	13	13-Jul	11	0
20-Jul	20	3	20-Jul	11	0
27-Jul	2	0	27-Jul	7	0
3-Aug	7	0	3-Aug	5	0
10-Aug	7	0	10-Aug	4	0
17-Aug	2	0	17-Aug	9	0
24-Aug	2	0	24-Aug	4	0
31-Aug	2	0	31-Aug	6	0
7-Sep	2	0	7-Sep	6	0
14-Sep	2	0	14-Sep	6	0



## FRIDAY NETS (cont.)

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
21-Sep	2	0	21-Sep	5	0
28-Sep	2	0	28-Sep	8	0

## SATURDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
7-Jul	2	0	7-Jul	X	X
14-Jul	11	1	14-Jul	X	X
21-Jul	2	0	21-Jul	X	X
28-Jul	4	0	28-Jul	X	X
4-Aug	4	0	4-Aug	X	X
11-Aug	2	0	11-Aug	X	X
18-Aug	2	0	18-Aug	X	X
25-Aug	2	0	25-Aug	X	X
1-Sep	2	0	1-Sep	X	X
8-Sep	2	0	8-Sep	X	X
15-Sep	2	0	15-Sep	X	X
22-Sep	2	0	22-Sep	X	X
29-Sep	2	0	29-Sep	X	X

X = No net called

**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!!!**

## 10-10 NET CONTROL STATIONS

Mon (28.380)	Alan, WB9WZI	#76209	IL
Mon (28.800)	Doc, WB6OJB	#70675	CA
Tues (28.380)	Ray, K7CWS	#50288	AZ
Tues (28.800)	Mike, KF4WKY	#70191	NC
Wed (28.380)	Bob, N6OPR	#45715	AZ
Wed (28.800)	Louise, N6ELK	#36654	CA
Thu (28.380)	Bob, N6OPR	#45715	AZ
Thu (28.800)	Robert, KQ4PK	#63201	NC
Fri (28.380)	Terry N0TW	#36547	FL
Fri (28.800)	Bob, K6DNR	#75386	CA
Sat (28.380)	Mike, KF4WKY	#70191	NC
Sat (28.800)	Open. Contact Bob N6OPR for info		

Sunday **NEVER ON SUNDAY**

## Tucson Hamfest

Just after day break Ray, K7CWS and I (N6OPR) arrived at the location and set up a table for 10-10. We got a great spot right at the entrance.

The weather was nice and cool. Normally Hamfests here shut down by noon as temperatures get very high. Today, it was over 102 degrees by noon.

We had a great morning talking with visitors and old friends. We had a total of 48 sign our guest book and all were from Arizona. 12 were 10-10 members. Four guests had no call sign but were taking the Technician test. Three passed the test and promised to check out 10-10.

A Boy Scout troop set up a refreshment booth and also conducted a T-HUNT for a merit badge. There were 2 stations hiding out on 2 meters in the area.

Looking forward to next Hamfest

Bob N6OPR #45715 and Ray K7CWS #50288



Ray K7CWS #50288 and Bob N6OPR #45715 man the 10-10 table at the Tucson Hamfest.

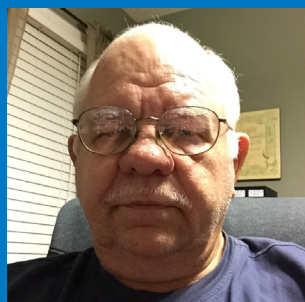
## 10 Meter Beacons

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](mailto:wi5v.be@gmail.com)

73 Dennis Stice WI5V #35806 IARU Region 2 HF Beacon Coordinator

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



# QSO Parties

Dan Morris, KZ3T  
(#41015)

## 2018 SPRINT QSO PARTY

10-Oct

### TOP TEN

CALL	10-10#	CTX W	CTX WO	TOTAL
1. DL6DK	39944	28	5	61
2. PA2NJC	30903	19	4	42
3. N5MT	24949	11	16	38
4. K8DEL	2978	9	12	30
5. KQ4PK	63201	6	14	26
6. N4ZCG	56067	9	4	22
7. K7CWS	50288	9	1	19
8. N6OPR	45715	8	1	17
9. N4ERM	34524	7	1	15
9. AK4YS	75328	7	1	15

### CALL AREA ORDER

#### CALL AREA 0

CALL	10-10#	CTX W	CTX WO	TOTAL
W0RTV	13962	0	2	2

#### CALL AREA 1

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	2	0	4

### CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
KQ4PK	63201	6	14	26
N4ZCG	56067	9	4	22
N4ERM	34524	7	1	15
AK4YS	75328	7	1	15
N3GTY	50585	5	0	10
W1LIC	46677	0	7	7

### CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
N5MT	24949	11	16	38
KM5FF	50356	3	0	6
KD5DE	33513	1	0	2

### CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
K7CWS	50288	9	1	19
N6OPR	45715	8	1	17
N7QOZ	62599	2	4	8

### CALL AREA 8

CALL	10-10#	CTX W	CTX WO	TOTAL
K8DEL	2978	9	12	30

### QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	7	1	15

### COUNTRY ENTRIES

#### GERMANY

CALL	10-10#	CTX W	CTX WO	TOTAL
DL6DK	39944	28	5	61
DJ2YE	68904	0	1	1

#### HAWAII

CALL	10-10#	CTX W	CTX WO	TOTAL
NH7PE	74456	1	0	2

**NETHERLANDS**

CALL	10-10#	CTX W	CTX WO	TOTAL
PA2NJC	30903	19	4	42

**PANAMA**

CALL	10-10#	CTX W	CTX WO	TOTAL
HP1RIS	75617	1	3	5

**LOW POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
PA2NJC	30903	19	4	42
N5MT	24949	11	16	38
N4ZCG	56067	9	4	22
N6OPR	45715	8	1	17
N4ERM	34524	7	1	15
N3GTY	50585	5	0	10
W1LIC	46677	0	7	7
N7QOZ	62599	2	4	8
KM5FF	50356	3	0	6
N1API	25468	2	0	4
W0RTV	13962	0	2	2
KD5DE	33513	1	0	2
NH7PE	74456	1	0	2
DJ2YE	68904	0	1	1

**HIGH POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
DL6DK	39944	28	5	61
K8DEL	2978	9	12	30
KQ4PK	63201	6	14	26
K7CWS	50288	9	1	19
HP1RIS	75617	1	3	5

**CLUB ENTRIES**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
DL0BIC	77526	28	5	61	DL6DK
K4MN	24874	5	0	10	N3GTY
W1NRG	29650	2	0	4	N1API

**2018 FALL CW QSO PARTY****October 20 - 21****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. N4ZCG	56067	14	3	31
2. N4ERM	34524	10	1	21
3. AK4YS	75328	7	0	14
3. K4FET	77603	7	0	14
4. KJ4RV	37776	6	0	12
4. KI4EZL	74359	6	0	12
5. KI4EZK	77510	5	0	10
6. KM5FF	50356	3	0	6
6. N3GTY	50585	3	0	6
7. WA2JSG	9712	1	1	3
8. K0KEX	6691	1	0	2
8. KD5DE	33513	1	0	2
8. WA3GM	46927	1	0	2
8. KM5EH	71103	1	0	2
9. W1LIC	46677	0	1	1

**CALL AREA ORDER****CALL AREA 0**

CALL	10-10#	CTX W	CTX WO	TOTAL
K0KEX	6691	1	0	2

**CALL AREA 2**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2JSG	9712	1	1	3

**CALL AREA 3**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA3GM	46927	1	0	2

**CALL AREA 4**

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	14	3	31
N4ERM	34524	10	1	21
AK4YS	75328	7	0	14
K4FET	77603	7	0	14
KJ4RV	37776	6	0	12
KI4EZL	74359	6	0	12
KI4EZK	77510	5	0	10
N3GTY	50585	3	0	6
W1LIC	46677	0	1	1

**CALL AREA 5**

CALL	10-10#	CTX W	CTX WO	TOTAL
KM5FF	50356	3	0	6
KD5DE	33513	1	0	2
KM5EH	71103	1	0	2

**QRP**

CALL	10-10#	CTX W	CTX WO	TOTAL
AK4YS	75328	7	0	14
KJ4RV	37776	6	0	12
KI4EZL	74359	6	0	12
KI4EZK	77510	5	0	10

**LOW POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	14	3	31
N4ERM	34524	10	1	21
K4FET	77603	7	0	14
KM5FF	50356	3	0	6
N3GTY	50585	3	0	6
WA2JSG	9712	1	1	3
K0KEX	6691	1	0	2
KD5DE	33513	1	0	2
W1LIC	46677	0	1	1

**HIGH POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA3GM	46927	1	0	2
KM5EH	71103	1	0	2

**CHAPTER ENTRIES**

CHAPTER	LOGS	PTS
POSSUM TROT	9	126
NM MUD DUCKS	1	6
STEAMBOAT	1	2

**CLUB ENTRIES**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	3	0	6	N3GTY

**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](mailto:editor@ten-ten.org).



**2018 FALL DG QSO PARTY****November 10 - 11****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. N4ZCG	56067	14	5	33
2. KM4ODS	77504	11	2	24
3. N3GTY	50585	11	0	22
4. KJ4RV	37776	10	1	21
5. N4ERM	34524	9	1	19
5. AK4YS	75328	9	1	19
6. K4QHH	26040	8	0	16
7. AA5BE	76207	4	7	15
8. KD2NOM	77596	4	5	13
9. W1LIC	46677	0	12	12

**CALL AREA ORDER****CALL AREA 1**

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	1	4	6

**CALL AREA 2**

CALL	10-10#	CTX W	CTX WO	TOTAL
KD2NOM	77596	4	5	13
W2VTV	71275	3	3	9

**CALL AREA 3**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA3GM	46927	0	6	6

**CALL AREA 4**

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	14	5	33
KM4ODS	77504	11	2	24
N3GTY	50585	11	0	22
KJ4RV	37776	10	1	21
N4ERM	34524	9	1	19
AK4YS	75328	9	1	19
K4QHH	26040	8	0	16
W1LIC	46677	0	12	12

**CALL AREA 5**

CALL	10-10#	CTX W	CTX WO	TOTAL
AA5BE	76207	4	7	15
KD5HIP	71476	4	0	8
KD5DE	33513	3	0	6
KM5EH	71103	1	0	2

**QRP**

CALL	10-10#	CTX W	CTX WO	TOTAL
KJ4RV	37776	10	1	21
AK4YS	75328	9	1	19

**LOW POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	14	5	33
KM4ODS	77504	11	2	24
N3GTY	50585	11	0	22
N4ERM	34524	9	1	19
AA5BE	76207	4	7	15
W1LIC	46677	0	12	12
W2VTV	71275	3	3	9
N1API	25468	1	4	6
KD5DE	33513	3	0	6
WA3GM	46927	0	6	6

**HIGH POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
K4QHH	26040	8	0	16
KD2NOM	77596	4	5	13
KD5HIP	71476	4	0	8
KM5EH	71103	1	0	2

**CHAPTER ENTRIES**

CHAPTER	LOGS	PTS
POSSUM TROT	7	160
GOLD CITY	1	16
CASTLE CRAIG	2	12
STEAMBOAT	2	12

**CLUB ENTRIES**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	11	0	22	N3GTY
W1NRG	29650	1	4	6	N1API
W5RRV	42114	3	0	6	KD5DE

**Scholarship Support Needed!**

Through donations by our members, since 1988 10-10 has supported college scholarships administered by the Foundation for Amateur Radio. This year we are sponsoring four \$2000 scholarships. Even though 10 meter conditions have been very poor and most of us haven't been able to work each other on the air, let's not forget about our 10-10 Scholarship Program. The most recent winners were featured in the Fall News. Even small donations help and the students can use your support. Please consider making a donation this year. See information about the Scholarship Program on Page 27 of this issue.

**ARTICLES**

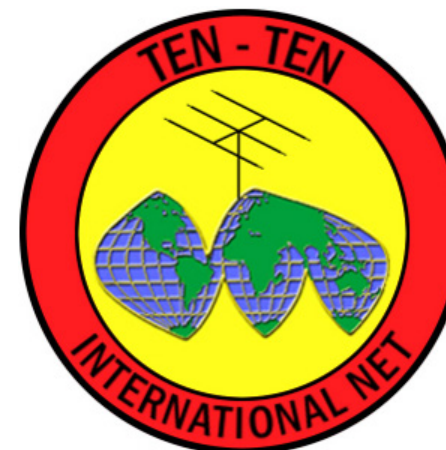
If you have a Ten-Ten related adventure/experience you think would be good to share with the other members of the Ten-Ten International organization, please send your story to [editor@ten-ten.org](mailto:editor@ten-ten.org).

**Remote Operations**

All amateurs are encouraged to operate on ten meters. This fulfills our mission statement. Under some circumstances, many hams have to use remotely located stations. Remote operation is acceptable for 10-10 events, if they are not used to gain an advantage. Recently it has been noted that some are not properly broadcasting their correct QTH while operating remotely. Your QTH is the location of the transmitting antenna. If you live in Kansas and use a remote station in Florida, your QTH is Florida for QSO reporting. This is critical during QSO parties and when applying for awards. This policy is not unique to 10-10, as it is also employed by other amateur organizations.

**2019 Hamfest Schedule**

HamCation	February 8-10
Yuma	February 15
Charlotte	March 8-9
Houston	March 22-23
Dayton	May 17-19
Sea Pac	May 31 - June 2
HamCom	June 1-2
Huntsville	August 17-18



## 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 - [www.ten-ten.org](http://www.ten-ten.org)

## TOP TEN HONOR ROLL

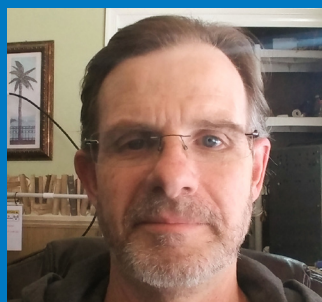
No.	CONTACTS	CALL	10-10#
1.	24600	WA5JDU	3017
2.	11700	K0PV	9902
3.	11700	N5XZ	4530
4.	11300	DL8YBM	36109
5.	10600	N1API	25468
6.	10000	K6PZE	1341
7.	9800	N5DAS	35877
8.	8800	AC6FU	10937
9.	8200	K5FBS	48461
10.	8200	N6OPR	45715

## TOP TEN CLUB

No.	CONTACTS	CALL	10-10#
1.	10100	WD0SFT	37933
2.	4400	K6MQ	K6MQ
3.	3300	DL0X	DL0X
4.	2100	W8PGW	W8PGW
5.	1800	W1NRG	W1NRG
6.	1200	NM5MD	NM5MD
7.	1100	W4MNM	W4MNM

## AWARDS MANAGERS

BAR 100-900..	Dan Morris, KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	<a href="mailto:dbmorris315@gmail.com">dbmorris315@gmail.com</a>
Bar 1000+ . . .	Tony Lisnak, N2WIE, #66790	192 Greenvale Ave, Yonkers, NY 10703	(914) 476-4032	<a href="mailto:lisnak@optonline.net">lisnak@optonline.net</a>
VP Bar . . . . .	Bob Bishchoff K4QHH #26040	180 Persimmon, Rutherfordton, NC 28139-9319	(000) 000-0000	<a href="mailto:rabisch@hotmail.com">rabisch@hotmail.com</a>
VP WAS. . . . .	Bob Bishchoff K4QHH #26040	180 Persimmon, Rutherfordton, NC 28139-9319	(000) 000-0000	<a href="mailto:rabisch@hotmail.com">rabisch@hotmail.com</a>
VP Lucky 13 . .	Dan Morris KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	<a href="mailto:dbmorris315@gmail.com">dbmorris315@gmail.com</a>
WAC . . . . .	Kevin Gilot, NZ1I, #72759	50 Cindy Lane Mystic, CT 06355-1404	(860) 572-6086	<a href="mailto:kevinemtid@tvconnect.net">kevinemtid@tvconnect.net</a>
Counties . . . .	Brad Kimble, K0DBK #55192	3855 66th St. E., Inver Grove Hts, MN 55076-2222	(651) 755-9192	<a href="mailto:kzerodbk@gmail.com">kzerodbk@gmail.com</a>
Countries . . . .	Mike Davidson, N5MT #24949	26274 Whispering Pines Ave, Denham Springs, LA 70726	(713) 417-4727	<a href="mailto:N5MT@aol.com">N5MT@aol.com</a>
CW. . . . .	Lee Zalaznik, KI6OY #50948	334 Olivina Ave., Livermore, CA 94551-6137	(925) 455-0361	<a href="mailto:lee.zalaznik@sbcglobal.net">lee.zalaznik@sbcglobal.net</a>
Digital. . . . .	Mel Sojka, KD5DE #33513	353 Atlantic Ave., Shreveport, LA 71105-2909	(318) 861-7012	<a href="mailto:kd5de@nwla.com">kd5de@nwla.com</a>
Mobile . . . . .	Bob Bishchoff K4QHH #26040	180 Persimmon, Rutherfordton, NC 28139-9319	(000) 000-0000	<a href="mailto:rabisch@hotmail.com">rabisch@hotmail.com</a>
OM/XYL. . . . .	Marcus Lieberman, KM5EH #71103	2300 Hurley Drive NW, Albuquerque, NM 87120-1013	(505) 836-1724	<a href="mailto:buckml@lobo.net">buckml@lobo.net</a>
WAS . . . . .	Eva Donaldson, WB0CON #53964	12933 W Montana Drive, Lakewood, CO 80228-4244	(303) 989-0475	<a href="mailto:wb0con@comcast.net">wb0con@comcast.net</a>
WPX . . . . .	Ed Bryant, KM5FF, #50356	9001 Sunbow Ave SW, Albuquerque, NM 87121-8851	(505) 934-2100	<a href="mailto:elbble@gmail.com">elbble@gmail.com</a>
GB Counties . .	Mike Crawshaw, G4BLH #18446	Moved - New address coming.	No Phone	<a href="mailto:g4blh@zen.co.uk">g4blh@zen.co.uk</a>
Scouts . . . . .	Rex Landreth, KD6FEC #77131	30 Alida Road, Braintree, MA 02184	No Phone	<a href="mailto:kd6fec@gmail.com">kd6fec@gmail.com</a>



## 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
00984	VE3BKG	Robert C. Gradwell - Leamington, ON
01659	K0JDB	Raymond T. Polley - Overland Park, KS
04565	W3BYJ	Michael B. Rich - Spring Hills, FL
05813	W4RFZ	Lloyd K. Barnett - Decatur, AL
06089	WA2AOG	Lonnie J. Keller - Elma, NY
07012	W4WXZ	Charles H. Brydges - Clemmens, NC
09249	K4KI	Don G. Carlson - Savannah, GA
12806	K9IH	Warren T. Geary - Westlake Village, CA
13470	K4WR	David R. Ricketts - Chattanooga, TN
13748	WA1WOB	Gerald A. Henault - Millbury, MA
13775	W1UIY	Edward W. Huntington - Windsor, CT
13799	K1WGN	Stephen W. Siter - Paxton, MA
14992	WA6YTD	Darryl S. Cohn - San Francisco, CA
16265	K8VFF	Robert C. Crawford - Davisburg, MI
16811	WO3Q	Grant R. Walborn - Concordia, PA
19017	WB4OGP	Harold L. Nichols - Arnold, MD
19931	KC3LZ	Donald M. Fisher - Leeper, PA
20034	W9NSC	Jerome Dolezal - Franklin, WI
22061	AA4CX	Robert D. Milledge - Atlanta, GA
23207	WA4ZNY	Hubert (Mike) Squires - Grafton, VA
26709	KF4FO	James E. Osteen - Hopkinsville, KY
28171	N1BWO	John Manning, Jr. - Litchfield, NH
28894	WB6VIV	Neil Lewis - Union City, CA
29048	KA7FYM	Larry D. Ziegler - Spokane, WA
29538	W8CWH	William F. Fonner, Sr. - Wellsburg, WV
30554	KD3H	George T. Judge - Royersford, PA
31310	N1ALR	Henry Niklas - Quincy, MA
31673	KF6JU	Larry N. Nelson - Hesperia, CA
35420	KR8N	V. Dale Maxam - Spring Lake, MI
35811	ND5V	Harold Friedman - Houston, TX
35901	VE7AST	Don Thorne - Victoria, BC
37093	N9ECO	William "Bill" V. Haney - Champaign, IL
37648	N6EHA	Marion A. Petty - Exeter, OK
39219	WB5KKY	Richard A. Crane, Jr. - Mesquite, TX
40397	NM8X	James T. Meyers - Croswell, MI
41986	WE2M	Paul M. Rankin - Bennington, VT
42125	WT5Q	E. H. Nail - Garland, TX

10-10#	Call	Name - City, State
42590	N1QJ	Walter J. Childs - Pelham, GA
44049	K8ELS	William D. Taylor - Huntington, WV
44982	WB7K	Francis R. McDonald - Laramie, WY
45471	W8HTD	Wyatt E. Mc Daniel - Naples, FL
46625	NF1B	James J. Guarino - Newark, DE
47580	KB5BDY	Laurance N. Nickey - El Paso, TX
47590	WA5OVF	Dallas T. Ebest - San Antonio, TX
49346	W5EFZ	Frank L. Schnell - Euless, TX
50342	N5KKM	Ben F. Ellis - Dallas, TX
50531	K3DUW	Alan Goodman - Eugene, OR
50672	KB9ALG	Jerry M. Janco - Munster, IN
52181	W5PKE	Curtis E. Swafford - San Antonio, TX
52481	KA1UEG	John F. Donovan - Centerville, MA
52954	W0WAK	Walter A. Kvasnik - St. Paul, MN
53022	KB4BQH	Harold D. Yuspeh - Snellville, GA
54179	NH7GA	Charles D. Henley - North Canton, OH
55320	N6NVA	Mary-Jane Walker - Bay Point, CA
57434	W4ZPQ	Walter W. Wurfel - Falls Church, VA
57451	KC4LOY	Thomas J. Mullins - Winder, GA
57490	W4CIC	Elda J. Pinegar - Brookwood, AL
59014	N6XBH	J. Brent Johnson - Vellejo, CA
59192	KA1YDN	Kevin L. Staines - Lancaster, NH
59961	AC7FN	James A. Gerwitz - Scottsdale, AZ
60436	KD4DGQ	Jorge A. Thevenet - Ashburn, VA
61623	WA1DUZ	Kenneth E. Garren, Jr. - East Bridgewater, MA
62341	WA0RXI	Ron Moss - Carthage, MO
62490	N1MWJ	Ellis A. Rud - New Ashford, MA
65296	AG6IM	Lawrence H. Wilson - Los Gatos, CA
65683	W4AWW	Ralph W. Satterwhite, Jr. - Columbus, GA
68841	W8RJM	Robert J. Martini - Columbus, OH
69366	K5OIL	Odis D. Cargile - Groesbeck, TX
69583	AF4OR	Richard E. Schofield - Leesburg, FL
69648	N2NS	Frank R. Hervatine - Clovis, CA
69988	WA5PSN	David S. Kleespie - Greenville, MS
70171	K1MRC	Joseph F. Nates - Taunton, MA
71491	VE3NJV	Nicholas J. Visser - Newmarket, ON
71493	WA2FAA	James M. Sutkoff - Spring Hill, FL
73300	W4ZEE	Ronald K. Burch - Fishersville, VA
73659	K1EHJ	Robert O. Hutchinson - Duxbury, MA
73729	W4TEE	David L. Roberts - Columbus, GA
74254	K3SKM	S. Keith McPhail - Delray Beach, FL
74962	N2LID	David E. Colvin - Corning, NY
75763	AG5CC	Charles G. Carney - Biloxi, MS
76918	K8NOS	Samuel W. Spiteri - Ann Arbor, MI
77211	KW6JIM	James S. Armstrong - Eureka, 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



## REPORT FOR THE 10-10 INTERNATIONAL CLUB STATION W6OI

W6OI continues to be on the air for most of the 10-10 QSO parties. Band continues to be quite the challenge at my location here in central US (Wisconsin).

I do manage a few contacts on FT8 but none yet with 10-10 numbers. During the Summer Phone QSO Party in August I did make 11 contacts on SSB – 10 with a 10-10 number and one that did not! It was just a very short opening and states worked were FL, GA, NC, VA, and OK. Mighty surprised and was glad I do listen often and make calls.

I'm still hoping more members will come on out and at least try FT-8, as we wait for conditions to improve on 10. And, if FT-8 is not enough to gain your interest, there are a couple of other digital modes now available similar to FT-8. They are FS8Call and FT8Call. These newer modes are a bit more suitable for making 10-10 contacts with proper info exchange. Check them out and give a listen. You can find plenty of helpful details on the web by searching either mode.

I am well aware that many of these digital modes will never replace CW or SSB, but hey, we hams are up for experimenting so try something different while we wait on propagation! Besides, winter is here and what else do we have to do but maybe shovel some snow.

Just as a reminder and previously noted in earlier newsletters, the W6OI special event has been canceled until further notice.

The 10-10 Club Station, W6OI, is available for operation to any current (dues paid) member or chapter for use as a special event station. AND, also available if any member would like to operate W6OI during any of the 10-10 QSO Parties. Just send your request along with confirmation of license and paid up membership to the following or via email (treismine2@yahoo.com):

**Jerry Kopstein N9AC**  
**8041 W. Lakeshore Drive**  
**Burlington, WI 53105**

W6OI is one of three official 10-10 club stations, the others being VE9TEN (trustee Rob, VE9KM) and DL0X (trustee Henry, DL8YBM). W6OI is operated on CW by Brad, K0DBK who makes available FISTS and SKCC numbers. W6VY, Bob operates on Geratol nets to give out W6OI Geratol number and promote 10-10.

Paper chasers working W6OI can request list from Jerry, N9AC. It is available in ML format or just plain text. Catch ya on the band soon.

73's Jerry, N9AC

## 10-10 SCHOLARSHIP FOUNDATION SUPPORTERS

We encourage all of our members to support the 10-10 International Net Scholarship Foundation. Our goal has always been to fund our scholarships entirely through member donations. At the Scholarship Foundation meeting in July, the Foundation Board voted to guarantee the funding for four \$2000 college scholarships to be awarded in 2019. The Foundation was created in 2001 and is a qualified 501(c)(3) tax exempt organization and contributions are tax deductible. Why not consider a donation as a Chapter or an individual in memory of a fellow ham or loved one. This quarter several people donated in the memory of my father Abraham Berger, W2BLH, #33333. They were: Matthew Berger, K2MSB, #60606; Michael Berger, KC2YPO; Robert Berger, WA2EJO, #27605; Andy Kirschenbaum, WA2CDL, #3087 and I. 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 have an employer matching program, please let us know.

If you make a donation of \$25 or more you are eligible to receive one of the 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 Page 27 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 September, October and November and we appreciate their support.

### Platinum (\$1000 or more)

None

### Gold (\$500 to \$999)

None

### Silver (\$100 to \$499)

K4QYC .....	Joe Sport	51459
KD5HIP .....	John Zumbro	71476

## Bronze (Up to \$99)

WA2SUH .....	Larry Berger	00407
WA2CDL.....	Andy Kirschenbaum	03087
W4CQQ .....	James Smith	05355
K0KY .....	Dale Bagley	08655
KC0EM .....	Valentine Angell	11538
WA2EJO.....	Robert Berger	27615
K2MSB .....	Matthew Berger	60606
AL7RS .....	Daniel Kowell	61926
K3LPX .....	Marty Maurer	63021
W1DYJ .....	Larry Banks	65485
KC2YPO.....	Michael Berger	

## 10-10 SCHOLARSHIP APPLICANT INFORMATION

Each year the 10-10 International Net, through our non-profit corporation, the 10-10 Scholarship Foundation, funds four \$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. The five most recent winners are featured in on the 10-10 website. Over the past 31 years, 10-10 has funded 118 scholarships valued at \$147,000.

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

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



## Some Larger 10-Meter Yagi Designs

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.

Occasionally, I am asked to recommend some larger Yagi designs that one might build for 10 meters. I can do little better than recommend the designs by Dean Straw, N6BV, that appear in the program, YA, which has been distributed with *The ARRL Antenna Book*. The next edition will carry a Windows update and upgrade of the program called YW. In past columns, we have noted other designs originating from YA. We have also featured various 2-element and 3-element Yagis of interest.

The present designs use 4, 5, and 6 elements. Each has been optimized for stable gain, front-to-back ratio, and impedance across the first MHz of the band. I have cross-checked each of them on other antenna modeling programs to confirm the numbers, and all appear to be very promising designs for the home builder.

The gain of a Yagi depends more on the boom length than on the raw number of elements. Therefore, each design will use a longer boom in conjunction with the increasing number of elements to achieve its objectives, as shown in Figure 1. Merely adding more elements within the same boom length will rarely produce any significant additional gain.

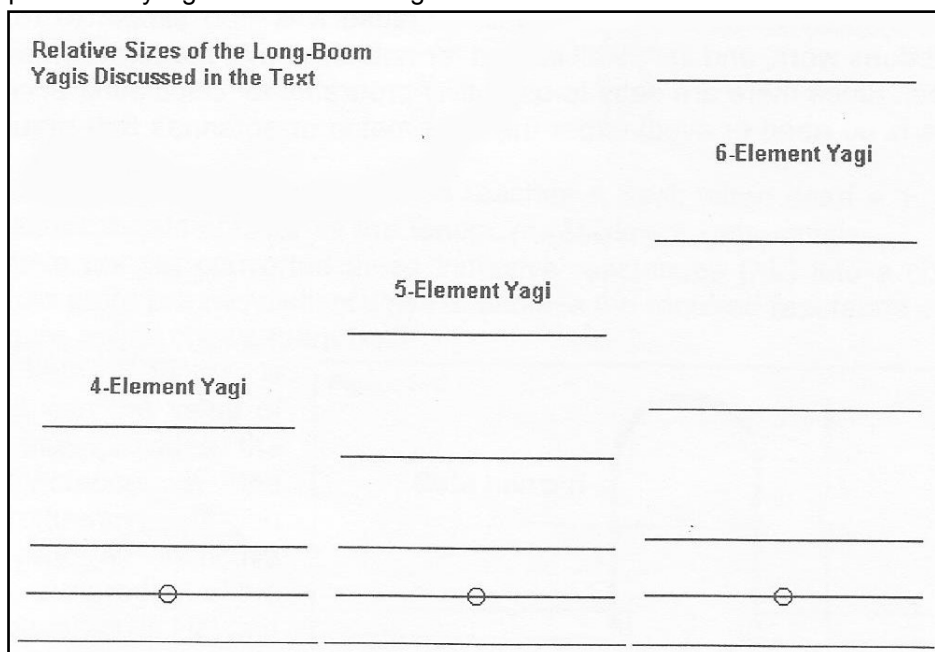


Figure 1. Relative Sizes of the Long-Boom Yagis

The element listings use a combination of 5/8" (0.625) and 1/2" (0.5) diameter tubing. Only one side of the antenna, relative to the boom, is listed, with the other side being a mirror image. Both the outer segment length and the total half-element length is listed for convenience. The smaller diameter element sections should be at least 3" longer than the lengths listed for insertion into the larger diameter element sections. All dimensions will be in inches. The decimals in the tables correspond to 1/8" increments of length.

The element assemblies are considered medium duty for maximum winds just over 90 miles per hour. For structural details of large Yagi construction, consult one of more of the many handbooks on antenna building. These beams are not casual projects, since they represent a considerable outlay for materials and result in large structures. Their weight may require a larger rotator and other improvements to your tower. Even the smallest of them should not be mounted on something so light as a telescoping mast.

**Table 1. 4-Element 14' Boom Yagi**

Distance from Reflector	Length of 0.625"	Length of 0.500"	Total (1/2) Element Length
0.000	36.000	70.000	106.000
36.000	36.000	63.875	99.875
72.000	36.000	62.250	98.250
162.000	36.000	53.125	89.125

The mid-band free-space gain of this antenna is about 8.4 dBi, with an excellent (greater than 20 dB) front-to-back ratio.

**Table 2. 5-Element 20' Boom Yagi**

Distance from Reflector	Length of 0.625	Length of 0.500	Total (1/2) Element Length
0.000	36.000	71.375	107.375
36.000	36.000	63.375	99.375
72.000	36.000	62.750	98.750
140.000	36.000	61.500	97.500
234.000	36.000	56.375	92.375

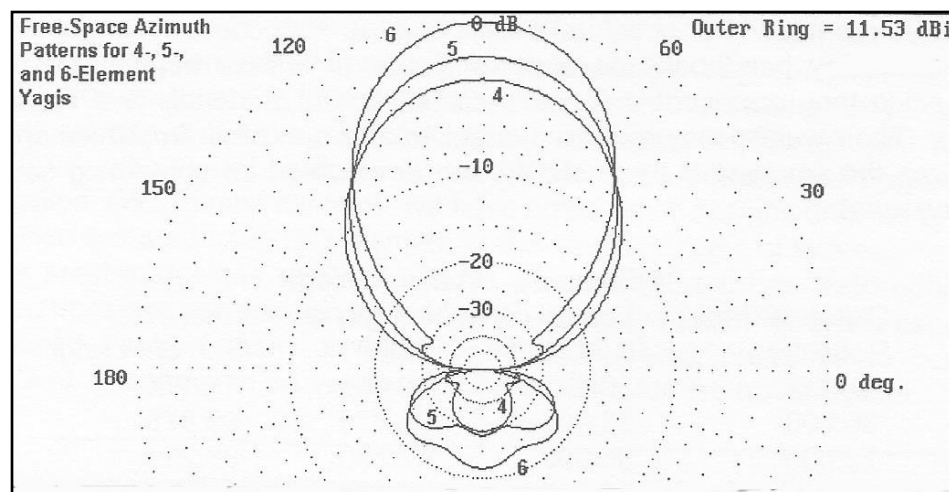
The mid-band free-space gain of this antenna is about 9.7 dBi, with an excellent (greater than 20 dB) front-to-back ratio.

**Table 3. 6-Element 36' Boom Yagi**

Distance from Reflector	Length of 0.625	Length of 0.500	Total (1/2) Element Length
0.000	36.000	70.875	106.875
37.000	36.000	62.875	98.875
80.000	36.000	62.375	98.375
178.000	36.000	60.125	96.125
305.000	36.000	59.250	95.250
426.000	36.000	55.250	91.250

The mid-band free-space gain of this antenna is about 11.6 dBi, with an excellent (greater than 20 dB) front-to-back ratio.

Figure 2 provides free-space azimuth patterns for each design at mid-band for comparative purposes.



**Figure 2. Free-Space Azimuth Patterns for 4-, 5-, and 6-element Yagis**

All of these antennas have feedpoint impedances that are designed for a beta or similar matching systems. The resistive part of the impedance is in the low-20s, with a comparable amount of capacitive reactance. You may lengthen the driven elements to resonance without adversely affecting antenna performance. A resonant driven element of about 25 Ohms can be matched to a 50-Ohm coaxial cable with a quarter wavelength section of 35-Ohm coaxial cable. Such cable can be purchased for a \$3.00 per foot. You may also fabricate a satisfactory line using parallel lengths of 75-Ohm cable with the braids and the center conductors each soldered together at each end.

The smallest of these monoband 10-meter beams will generally outperform the 10-meter section of all but the very largest tri-banders. The longest of the beams is a serious DX-hunting machine. To obtain the maximum performance from any of these beams, place them at least 1 wavelength above ground and preferably closer to 2 wavelengths.

Installing large beams at considerable heights above ground is not a casual process. First, there may be zoning and other legal restrictions or permissions to consider. Second, proper tower installation may cost many times more than the materials in the beam. Safety for yourself, your family, your property, and your neighbor's property are of paramount importance. So too is durability of the performance of the whole system, including tower, coax, rotator, guys, grounding system, and the antenna.

Before moving to large beams and complex tower installations, learn all that you can about every aspect of the task. If you have any doubts, consult professional tower installers for answers and for help. Do not violate or ignore applicable laws and ordinances. Do not settle for any installation that does not measure up to good engineering standards. And, for heaven's sake, do not rely on luck to keep your antenna in the air and lightning in someone else's yard.

As you can see, a big antenna – even for 10 meters – is only the beginning and not the end of a much larger enterprise. If you have all the other pieces in place, then one of the N6BV designs may be the answer to the antenna part of the puzzle. Other designs, some with feedpoint impedances in the 35 to 50 Ohm range are also available from various ham magazines. Collect lots of designs and ideas before you start cutting aluminum. The more design articles you read, the more you will learn about the art of building big beams.

## **dB, dBi, and dBd**

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.

A most convenient way to compare power is as a ratio between two powers. For this purpose, we have the decibel or dB. One dB =  $10 \log (P_1/P_2)$ , where  $P_1$  and  $P_2$  are any two powers that is relevant to compare. A power ratio of 2 is 3 dB; a ratio of 4 is 6 dB; a ratio of 10 is 10 dB. These marker points will guide you to intermediate values. Your transceiver output is 100 watts. Your linear output is 800 watts. Hence, your power gain is 9 dB to the antenna. Table 1-1 shows a few common values of the dB scale to acquaint you with the logarithmic curve.

**Table 1-1**

Power Ratio	dB	Power Ratio	dB
1:1	0.0	7:1	8.5
2:1	3.0	8:1	9.0
3:1	4.8	9:1	9.5
4:1	6.0	10:1	10
5:1	7.0	20:1	13
6:1	7.8	30:1	15

Antennas measure their power gain in the forward direction in dB. Since gain requires 2 powers to make the ratio, where does the second power come from? It comes from a standard reference. For most theoretical studies, the most common reference is dBi, decibels over an isotropic radiator. An isotropic radiator is a geometric point in space, with no material losses, that radiates equally well in all directions. The isotropic radiator is a theoretic standard that we can only approximate with some specially designed antennas. My rotatable aluminum backyard dipole at 35 feet over soils with average losses has a gain of over 7.5 dBi.

A second standard is dBd, decibels over a dipole in free space made of lossless infinitely thin wire. This equally theoretic antenna has a gain of 2.15 dBi. Hence, my backyard real dipole has a gain of over 5.35 dBd. Ground reflections add that much gain relative to free space, given the specific soil conditions.

For many, if not most of the decisions you will make about antennas, neither dBi nor dBd are the real references. Suppose you wish to buy a 3-element monoband Yagi for 10. What improvement can you really expect over your dipole? Now your own antenna—an aluminum tube (with losses)—becomes the standard.

Unfortunately, manufacturers do not rate their antennas by testing them on your mast in your yard. How can you use your knowledge of dBi and dBd to estimate the improvement the prospective antenna will make?

One way is to make antenna comparisons theoretically and extrapolate to your yard. Table 1-2 shows the gain figures for 3 antennas: a pretty good 3-element Yagi, a pretty good 2-element Yagi, and a dipole, all in free space. The 2-element Yagi has a forward gain of about 4.3 dB over the dipole, while the 3-element Yagi adds another 1.8 dB, for a total of 6.1 dB over the dipole. In the favored direction and in front-to-back ratio for nulling out QRM, you can expect similar performance from equivalent antennas mounted at the same height over the same terrain.



Table 1-2.

**Relative Antenna Gain using dBi and dBd and Antennas in Free Space**

Antenna	Gain		
	In dBi	over Dipole	over 2-el Yagi
Dipole	2.1	---	---
2-element Yagi	6.4	4.3 dB	---
3-element Yagi	8.2	6.1 dB	1.8 dB

Dipole	2.1	---	---
2-element Yagi	6.4	4.3 dB	---
3-element Yagi	8.2	6.1 dB	1.8 dB

Antenna	Gain		
	In dBd	over Dipole	over 2-el Yagi
Dipole	0.0	---	---
2-element Yagi	4.3	4.3 dB	---
3-element Yagi	6.1	6.1 dB	1.8 dB

Dipole	0.0	---	---
2-element Yagi	4.3	4.3 dB	---
3-element Yagi	6.1	6.1 dB	1.8 dB

Do not expect much more improvement than the numbers in the charts indicate, even if the manufacturer cites much higher numbers. The beams in this example can be tweaked for a little more gain or a little more front-to-back ratio, but not much and not both at once. In addition, the ability of the antenna to hold both its gain and its front-to-back ratio over the entire 10-meter band will suffer. In fact, the antenna designs used in generating the numbers in the table are among the finest in their respective classes. Any improvements without adding elements or increasing boom lengths will be difficult at best.

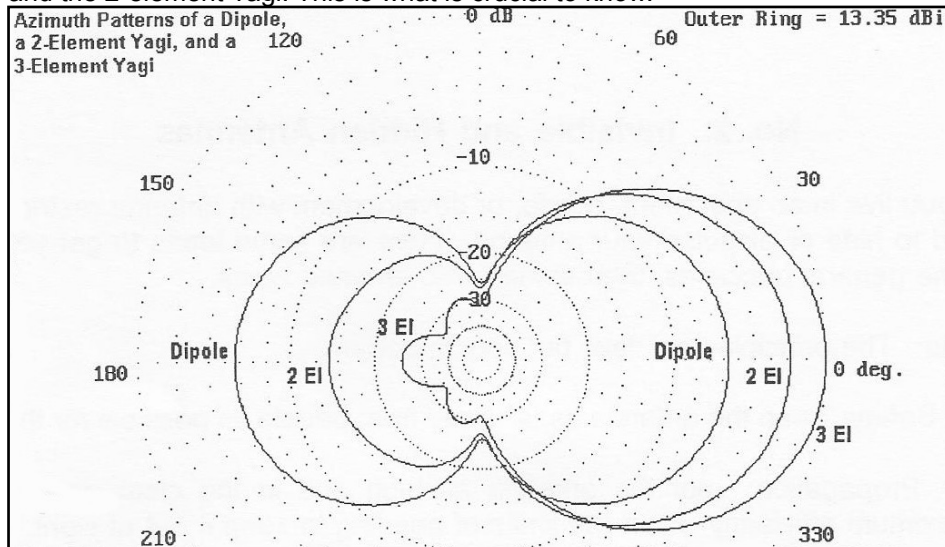
As you might expect after reading the table, it does not matter whether you make the gain comparison starting with figures in dBi or figures in dBd. You will get the same result. The only requirement is that you use the same reference for all your comparisons and calculations.

Since we started with a dipole, the charts seem to prefer dBd. That is an illusion, since we might have as easily started with a quarter-wave vertical, a 2-element Yagi (as column 3 shows), or ZL-Special. Moreover, had we placed the models over real ground, the gain numbers would have been intrinsically higher, beginning with a dipole gain of over 7.5 dBi or 5.4 dBd. But the differences among the antennas would have been very similar to the numbers in the charts.

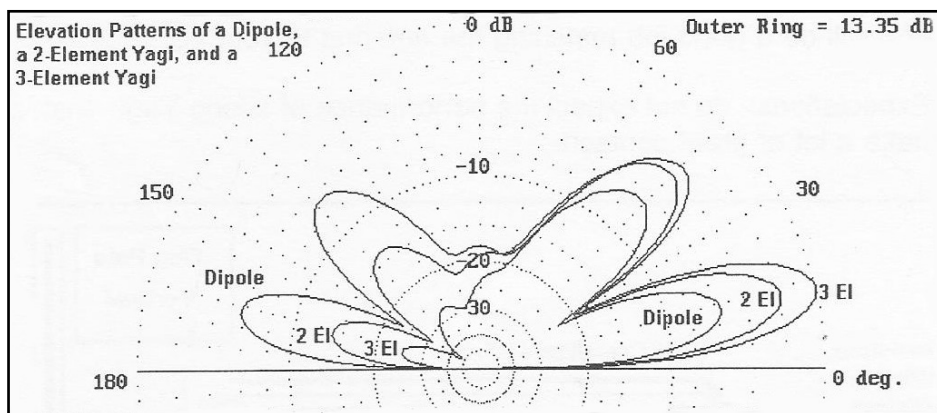
Figure 1-1 shows the azimuth patterns for the three antennas at a height of 1 wavelength above ground.

Figure 1-2 shows the elevation plots for these same three antennas. Although the maximum gain of the 3-element Yagi is shown in dBi, the relative proportions of the 3 antennas would be identical no matter whether we register the gain values in dBi or dBd. The relative gain of the 2-element Yagi over the

dipole is evident, as is the relative gain of the 3-element Yagi over the dipole and the 2-element Yagi. This is what is crucial to know.



**Figure 1-1. Azimuth Patterns for Three Antennas at 1 Wavelength Above Ground**



**Figure 1-2. Elevation Plots for Three Antennas at 1 Wavelength Above Ground**

# 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 2019

AJ7B, Randy.....	Newsletter Editor	KZ3T, Dan.....	Director/QSO Party Manager
G4BLH, Mike .....	Awards – GB	N0TW, Terry .....	Past President
K0DBK, Brad .....	Awards – Counties	N2WIE, Tony.....	Awards – 1000+ Bars
KD2NOM, Mark .....	SK Manager	N5MT, Mike.....	Awards – DX
K4QHH, Bob.....	Award Manager-Mobile & VP	N6ELK, Louise.....	Net Control
K5BKT, Peggy .....	Committee Member	N6OPR, Bob.....	Director/Net Manager
K5ERJ, Ed .....	Committee Member	N7YG, Jeff.....	IT Manager
K6DNR, Bob .....	Net Control	N9AC, Gerald .....	W6OI Trustee
K6RDK, David .....	Data/ Membership Manager	NP2MR, David.....	Committee Member
K7CWS, Ray .....	Net Control	NZ1I, Kevin.....	Secretary, Awards WAC
KA0ZPP, Jim .....	Director/Chapter Coordinator	VA7GY, Garry .....	Committee Member
KA5VVD, Bob .....	Committee Member	VE3MEW, Bill .....	Committee Member
KC1BTA, Jason .....	Scout Award Manager	W4MAA, Bobby .....	Committee Member
KC5ILO, Tom .....	Director/ Publications	W5DJT, David.....	Committee Member
KD5DE, Mel.....	President	W5SUM, Ronnie.....	Historian
KD6FEC, Rex.....	Scout Certificage Manger	WA2SUH, Larry .....	Scholarship Manager
KE1HG, Charles .....	Committee Member	WA3GM, Greg .....	Vice President
KF4WKY, Mike.....	Net Control	WB0CON, Eva .....	Awards – WAS
KI6OY, Lee .....	Awards – CW	WB6OJB, Arnold.....	Net Control
KM5EH, Marcus .....	Director/Awards Manager	WB9WZI, Alan .....	Net Control
KM5FF, Eddie .....	Awards – WPX	WI9X, Jim .....	QSL Bureau Manager
KQ4PK, Robert.....	Net Control	WN4AMO, Paul .....	Director/Publicity
KR7RK, Keith .....	Treasurer		

**RULES FOR THIS EVENT AVAILABLE AT [WWW.TEN-TEN.ORG](http://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.

## 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 off 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](http://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](http://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](http://www.ten-ten.org) using the membership/update link.

All payments may be made by Check, Money Order or IRC's (\$1USD per IRC). 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](http://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 five \$2000 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 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.

**Spirit of 76** - 7 day, 6 mode event centering around 4 July each year - 0001 UTC Monday 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. NOTE: A QUIET ZONE between 28.490 and 28.510 shall be in effect during QSO Parties using the Phone portion of the 10 meter band to allow for others to use the 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 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/Digital operations is max 50 watts and Phone operations is max 150 watts during the entire event.

**HIGH POWER:** Same as QRP listed above except that output power for CW/Digital operations is max 100 watts and Phone operations is >150 watts for the entire 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. If a single transmitter becomes inoperable, it is permissible to change to a replacement transmitter.

## 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 the entrant's score to that chapter. QSO Party scores for the Sprint may not be assigned.

### 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 and/or uploaded to the KJ4IZW contest scorer. 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: 2010 is the 48th anniversary year of 10-10 International Net, Inc. Contact with members containing a "48" in their membership number (i.e., 72048, 69485, 64854, 48126, 00487) 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 SPIRIT OF 76 (7 Days, 6 Modes) QSO PARTY

This event will run for 7 days and be around July 4th of each year. Make as many contacts as you can during the week using 6 modes. The modes that will be used are as follows as well as the suggested frequencies to monitor:

1. USB (28.345) 2. RTTY (28.086) 3. CW (28.050)
4. FM (29.600) 5. PSK (28.120) 6. AM (29.000)

Scoring will be as normal for QSO Parties, 2 points for members and 1 point for non-members. Dupes will be allowed once for each mode. It will be possible to work the same call 6 times in each of the various modes for a maximum total of 12 points per call. 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 - Temporarily Suspended

[NOTE - the special event is suspended until further notice due to band conditions.] This event is held during the 3rd weekend of November each year from 0000 UTC Saturday through 2359 UTC Sunday. 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](http://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"/> SPIRIT OF 76 |

## 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](mailto:tentencontest@ten-ten.org).**

Members are encouraged to upload logs at the KJ4IZW contest scoring web site: [www.hamclubs.info/scorer](http://www.hamclubs.info/scorer).

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