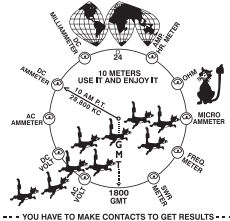


TEN-TEN INTERNATIONAL NET, INC.



TEN-TEN INTERNATIONAL **NEWS**

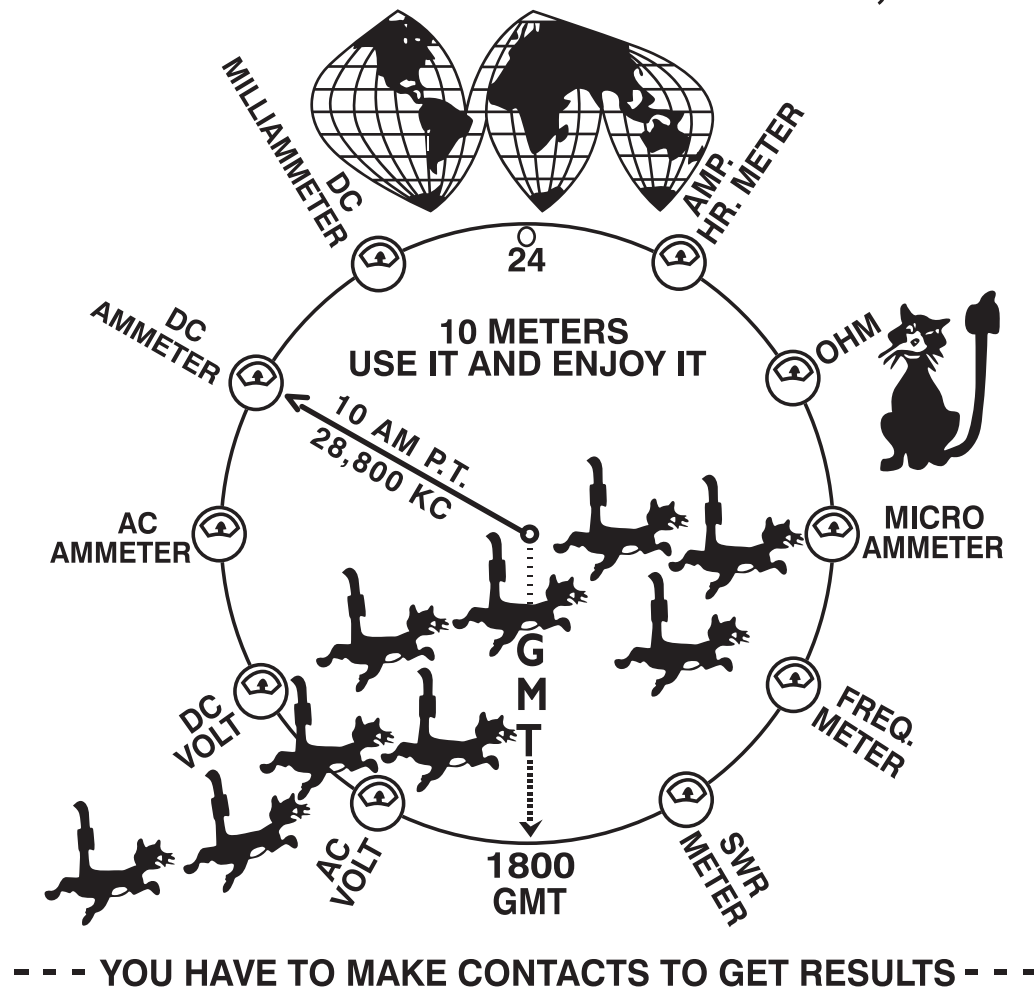


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The Ten-Ten International News

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

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

DEADLINE FOR NEXT ISSUE: 1 March 2020

PLEASE MAIL ALL ARTICLES AND PHOTOS TO:

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E-mail: editor@ten-ten.org

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

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

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

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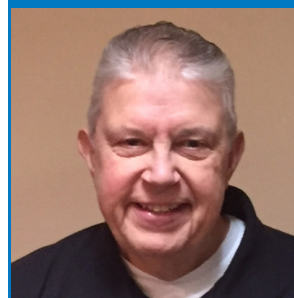
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From the Editor

Randy Mather, AJ7B
 (#7675)

Well 2019 sure ended with a thud. All the Fall QSO parties were definitely busts for me. Absolutely no contacts for me in the CW party and just thirteen contacts in the Digital party. Also saw some reports about how the sunspot minimum, more specifically "Spotless Days", was approaching a new record. The count is 273 days of this writing. As there are only 12 days left in the year as I write this, we won't set a new all-time count this year. Checking spaceweather.com shows we are in a 36 day stretch without a spot appearing on the sun's surface.

These conditions are also apparent in the low bands as well. I participate in nets on 80 and 40 meters almost every day. Over the last couple of weeks, communicating with stations on these lower bands within my state has been very difficult. If it weren't for the help of out-of-state stations, check-in counts would be very dismal

We can only hope that we are at the bottom and it will be all down hill from here. After all, 2008 was the last maximum number of spotless days (268) and 2019 is eleven years later than that. We will just have to see what the sun will do this year.

The poor conditions on 10 meters has had a direct effect on this newsletter. There is less content to fill these pages. Fewer participants for the QSO parties and fewer submissions for awards has had a significant impact on the size of those columns. The number of 10-10 chapters has shrunk a bit too. This issue will be the last Top-OP award. Maybe it will come back when conditions improve. But for now another hole to fill.

If you can help fill these pages, please send your content to me at editor@ten-ten.org.

Happy New Year to all.

Randy



From the President

Mel Sojka KD5DE
#33513

UPPER LEVEL QRM

Another year gone by and it was not as productive as we had wished. On the bright side, the experts say that the bottom of the solar cycle took place OCT 21, 2019. On that day the lowest 10.7 CM solar flux in recorded history occurred, 64 even which broke a 1954 record of 64.4. It would be nice if a record high takes place a few years down the road, I believe we deserve a super cycle in this century.

As I reported in the previous 10-10 newsletter, I attended the Chattanooga and Stone Mountain Hamfest in response to invitations. Both of these were over 500 miles away and I did them each in a one-day drive. Chattanooga took place October 18th and 19th and was the ARRL Delta Division Convention. For the first time the event took place on Friday and Saturday. We were able to do eight renewals and qualified one new member. Thursday evening in the motel room, I noticed it was 8 P.M. Eastern time for the Steamboat net in Shreveport. I went out to the car, checked 28.430, and heard very light voices. I drove to a higher spot, checked into the net 514 miles away, and worked three of the Shreveport locals. Please note that was 4 days before the bottom of the solar cycle. I was excited since that was the weekend of the CW QSO party. So, Friday afternoon I strung my end-fed antenna in the motel room and found that no matter what I did, the noise level was full scale. I then ran out to the car and used my laptop to work the event. That was wasted effort. I had to run the car to get the 100 watts out and lighting was horrible. For the first time in many years, I had no contacts for the CW event.

The Stone Mountain event was another adventure. I hit exit 51 on the West side of Atlanta at 11 A.M. on Friday. Due to horrible traffic, I had to use the 285 bypass which took me 1½ hours just to get from there to Lawrenceville just north of Atlanta. I was excited about this event since I had attended it 5 years ago and there was a very active local 10-10 chapter in the area. That excitement was not justified since I ran across only two members of that local chapter all weekend. With many 10-10 members attending, I decided to set up my two little rigs and try to qualify new members. Once again, this was successful with six new members and four renewals. The trip was worth the effort. By the way, I started back home Sunday at 11:30 P.M. CDT. With no traffic, the return travel time was two hours less than the time it took to get there. I never knew what time it was since I was

in the Eastern Time zone and that weekend was the weekend you set your clock back one hour. Hamcation in Orlando is next. That's enough about my travels.

There will be a slight change in our Hamfest setup beginning in 2020. Many years ago, apparently W6YLJ Chuck #19636 ordered a very large shipment of the traditional round 10-10 pins. There were several pins created over time, but not a large volume. In 1987, the first convention took place and the first convention pins appeared. There were at least six other convention pins produced, and beginning in 2014 annual pins were ordered. The sales of these pins supported the Scholarship Foundation and were used as a "Thank You" gift to members who made Foundation contributions. For a long period they were very popular as collectibles. It appears that their appeal has waned. As a result, I have one corner of my 10-10 storage area that contains more pins than I want to count. I have requested that all officials send me any pins they have in storage. Initially I was planning on a very special pin for 2020, but that would only compound the problem. I have instead created two different pin packs, each containing 5 different pins that sell at a discounted price. The only individual pins available will be the large 2018 and the traditional round pin. We will continue to have member patches and life member patches.

Another change beginning this year is the ending of the Top OP program. This program has historically encouraged members to qualify non-members. The intent was a very good idea. But in practice, when band conditions are very poor, the results do not justify the award. A prime example is if I had submitted all the contacts I made during Hamfests, I would be the top OP for the year. Maybe when the band becomes more user friendly the award will return. I always enjoy recognizing members that have made significant contributions to the organization.

That opens the door to the 2020 election. This year we will elect three Directors and the Vice President/ Secretary. The individual offices of Secretary and Vice President became a single office two years ago. Since we now do the board meetings on-line and the conference recording is automatic, the need for a standalone recording Secretary is no longer justified. All four of the positions will be for a 4-year term. 10-10 is dependent on the leadership of the Directors to move forward and grow the organization. Due to health and age, some of our Directors have earned the right to retire if they desire. Net Officials and Committees need young input. If you have been a current paid member for 4 years and your membership dues will be current for the term of your office, I encourage you to contact Paul Hemby WN4AMO #73825 to get nomination forms and information and run for a position. There is always a need for volunteers and if you would like to offer your service in any area, please contact me.

A little note from our editor, he has a continual need for articles, DIY projects, Antenna design input, and anything related to ten meters and amateur radio. He needs to find enough content to fill the 28 page News every quarter.

God Bless & 73
Mel KD5DE #33513

2019 President's Award

One of the tasks I have is to select a member that has made a significant contribution to the 10-10 organization over the past year. This is difficult when band conditions are at their best. It's far worse at the bottom of the cycle. This year I looked back over the past years to find a member who has been consistent in their support and contributions. Nine years ago, a Director came aboard with the function of promoting 10-10 through hamfest, advertising and public relations. Paul Hemby WN4AMO #73825 has diligently performed these functions under all band conditions, and regardless of his health or personal situation. It is my pleasure to select him to receive the 2019 Presidents Award.

Thank You Paul
Mel KD5DE #33513



Paul Hemby WN4AMO #73825 with 2019 President's Award plaque.

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.

The Top Operator and Net Control for Q4 are:

Operator - **KG5ZMQ Robert Stoll #77628**

Net Control - **N6OPR Robert Farrow #45715**

The Top Operator and Net Control for 2019 are:

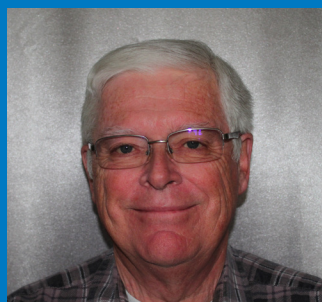
Operator - **W5SUM Roland Hull #2019**

Net Control - **N6OPR Robert Farrow #45715**

As noted previously, the Top Operator Award program is discontinued.



Robert Stoll KG5ZMQ #77628 presents the 2019 Top Op Award to Roland Hull W5SUM #2019.



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): Channel Islands, Down Under, Colorado Frontier Gang/Centennial, Fort McHenry/ Cornerstone/Yodar Kritch, South Central Illinois Ten Meter Club. Past Due (no report received during the prior quarters when due): Houston S.H.O.T, Louisiana Pelican. Reports received after November 26 (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: Alii (Jan), Aloha (Jan), Cincinnati Area Ten Tuners (Jan), City of Lights (Feb), Gold City (Jan), New Mexico Mud Ducks (Feb), Oregon Trail (Feb), Tango (Feb). Note that Quarterly Chapter Reports may be sent any time. The months indicated here are the dates in 2019 in which the last report was received.
- 4) I thank ALL CH/CM who sent me a complete report during 2019 so I have up to date contact and net information. Other chapters, please send me a complete report in 2020. See www.ten-ten.org/index.php/resources/ten-ten-documents/ten-ten-forms for a form to download or www.ten-ten.org/chapters/quarterly-report to fill out and submit electronically. Be sure to notify IT Manager Jeff, N7YG, before using this easy-to-use form so he can add you to the Chapter Management Group.
- 5) Poor propagation in recent years has certainly affected 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.

6) A few CH have indicated that they intend to try announcing their 10m net on a local 2m net, even if not on the same day. This follows the suggestion made by President Sojka, KD5DE, in the April issue. Please let me know the success or failure of any such activity so I can pass it along to others. Thanks. (To date, I have gotten no reports of these attempts.)

CHAPTER NEWS

- 1) Hanse Chapter has lost their club station and its associated antennas and are unable to continue their Friday net. Peter, DL6DK, will let the Hanse net run following his European DX net on Wednesday, 1400/1500 UTC, 28.355 MHz. (See Net Guide.) Juergen, DL5HAN, will continue to handle upgrades. Thanks Peter and Juergen for continuing to keep Hanse Chapter operational!
- 2) Chapters below accept email upgrades as of November 26. 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)

Alii – CM WH6S, wh6s@outlook.com. Use form available from the CM.

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

Bay Area – CM K6RDK, k6rdk@arri.net

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

Castle Craig – CM N1API, n1api@cox.net

Chesapeake Bay – CM N3TGB, n3tgb@aol.com

Colorado Centennial/Colorado Frontier Gang – CM WB0CON, wb0con@comcast.net

Cradle of the Confederacy – CM K4PO, pcsalley@gmail.com

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

Fort McHenry/Cornerstone/Yodar Kritch – CM K3TUJ, k3tuj@juno.com

Gold City – CM K4QHH, rabisch@hotmail.com

Hanse – CM DL5HAN, dl5han@t-online.de

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

Louisiana Pelican – CM N5MT, n5mt@aol.com

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

Neanderthal – CM PA2NJC, cm.neanderthal@online.de

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

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

Oregon Trail– CH/CM K7QXG, k7qxg2@gmail **

Sky Blue Waters/Tin Lizzie – CM KA0ZIA, sbwtl1010@gmail.com

Speedway – CM W7CAR, w7car@arri.net

Steamboat Plus – CM KD5DE, kd5de@nwla.com

Twin Cities – CM K0DBK, 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

TEN-TEN NET GUIDE

As of December 1, 2019

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	DAY	ZSUM	ZWIN	Chapter Name	Location	Freq
SUN	0001	0100	Chesapeake Bay	Chestertown, MD	28345	TUE	1500	1600	New Mexico Mud Ducks	Albuquerque, NM	28835
SUN	1300	1400	Arlington	Arlington, VA	29200	WED	0001	0100	Castle Craig	Meriden, CT	28375
SUN	1400	1400	Neanderthal Chapter	Leichlingen, DL	28355	WED	0100	0200	Cincinnati Area Ten Tuners	Milan, IN	28430
SUN	1630	1730	Possum Trot	Raeftord, NC	28345	WED	0100	0200	Houston SHOT	Houston, TX	28488
SUN	1700	1700	Major League Baseball	Gilbert, AZ	28380	WED	0200	0300	10-Bar X	El Paso, TX	28445
SUN	1900	2000	Oregon Trail	Dallas, OR	28330	WED	1400	1500	EU DX/Branding Iron/ Hanse	Bergamen, DL	28355
SUN	1930	1930	North Georgia	Atlanta, GA	28410	WED	1700	1700	Gold City	Rutherfordton, NC	28425
SUN	2100	2200	Possum Trot	Raeftord, NC	28150 CW	WED	1930	1930	Route-66	Boonville, IN	28370
MON	0100	0100	Arizona Desert 10-10 Net	Phoenix, AZ	28445	THU	0001	0100	Cradle of the Confederacy	Pike Road, AL	28350
MON	0100	0200	Milwaukee	Milwaukee, WI	28365	THU	0100	0200	Gateway	St. Louis, MO	28650
MON	0100	0100	Lonestar	Arlington, TX	28460	THU	0100	0100	Cow Town	Arlington, TX	28460
MON	0100	0100	So. Illinois Ten Meters Club	Centralia, IL	28405	THU	0100	0200	Milwaukee	Milwaukee, WI	28365
MON	0130	0230	Bauxite	Benton, AR	28470	THU	0230	0230	Windfarms	Livermore, CA	28450
MON	1630	1730	Chief Seattle	Seattle, WA	28430	THU	0230	0330	Up The Crick	Eugene, OR	28450
MON	2330	2330	Sky Bl Wtr/Tn Lzz/Twn Ct	Inver Grove Heights, MN	28380	THU	1930	1930	Speedway	Rainer, OR	28350
TUE	0001	0100	Ft McHenry/Cornerstone/ Yodar Kritch	Arbutus, MD	28370	FRI	0001	0100	Fort McHenry/Corner- stone/Yodar Kritch	Arbutus, MD	28370
TUE	0100	0200	CO Centennial/CO Fron- tier Gang	Lakewood, CO	28340	FRI	0001	0100	Steamboat Plus	Shreveport, LA	28430
TUE	0100	0200	City of Lights	St Charles, IL	28150 CW	FRI	0300	0400	Chief Seattle	Seattle, WA	28430
TUE	0130	0230	City of Lights	St Charles, IL	28720	FRI	2230	2130	Down Under (Summer in NZ is winter in US)	Auckland, ZL	28530
TUE	0130	0230	Bauxite	Benton, AR	28470	SAT	1710	1610	Louisiana Pelican	Baton Rouge, LA	28450
TUE	0300	0400	Bay Area	Hayward, CA	28475	SAT	1730	1730	Tango	Buenos Aires, LU	28650
TUE	0430	0430	Aloha	Hilo, HI	28490	SAT	2200	2200	Alii	Lihue, HI	28730

NEW LIFE MEMBERS

02602	WA3MJY	Guy D Tressler III	PA
06872	WA7RQP	Robert P Trierweiler	NC
61929	AI3J	R Mark Strayer	PA
67260	KJ4FSU	Joseph L Morrell	GA
73256	N1WVQ	Jay N Rogers	MA

QSL Bureau News

Remember that I can process cards between all 10-10 members, no matter the band, mode or operating event - the only requirement is that both stations have a valid 10-10 number. All cards should be sent to my address below.

Jim Stoeber, wix #49635
8829 Bermuda Ave.
Caseyville, IL 62232



DX News

Mike Davidson, N5MT
(#24949)

Merry Christmas and Happy New Year to all. This past quarter the winter contest season started for the USA. Propagation has shifted to East/West paths but skip into Europe/Asia will be hard to find for at least another year for many of us in the USA. US East coast stations may hear Europe a few times in December and January 2020 but signals will be weak. Please get active in the **ARRL Ten Meter** contest this year, it starts on December 14. The Ten Meter contest is one of the most popular contests this winter. I will operate the contest for the 41st time, so good luck in finding a few new 10-10 members or a new DX country.

As you will see in the future DX plans below, I can see a lack of interest in going on a DXpedition in the coming months. Many DX groups are waiting for better propagation conditions to increase the number of QSOs that would be put into their logs. As travel expenses are getting higher and the DX population is getting older, some DX ops are starting to make shorter trips and staying closer to their home country.

My new multi-band vertical antenna at my station is mostly tuned for the FT8 operating frequencies, so I try to make FT8 contacts with DX stations on several bands when I can hear them. I am finding some DX on Ten and a few 10-10 members do know how to send their 10-10 info using the TX5 feature in the FT8 software. So do ask!

I am uploading my logbook contacts to the ARRL LoTW database on a regular basis. Especially now that the winter contest season is here, you need to post your logs to LoTW and send in your score for log checking of any contest that you are participating in. Even if you only have a few dozen contacts, send them in by email. Contests are now wanting logs within a short submit period, so upload to LoTW after posting your contest log.

The 10-10 Day Sprint QSO Party on October 10th was a challenge for my new vertical antenna. The solar flux was a low 69 during the Sprint and I managed to make 7 contacts on Saturday and none on Sunday. Propagation favored the stations on the US east coast and Germany where first place went to Henry **DL8YBM** #36109, who had 111 contacts.

I check into our local Pelican 10-10 weekly net every Saturday mornings at

10:10 local time on SSB 28.450 MHZ. I turn on my HF amplifier to help the local members hear my low vertical since some members are more than ten miles from me in Baton Rouge, LA. I tuned the new vertical for low SWR on the different FT8 frequencies to get as much power off the antenna since I wanted to make digital contacts a priority from my new QTH.

There were no reports of higher Solar Flux at the SILSO website that tracks the Sun. Website: www.Sidc.Be/SILSO/. SILSO is forecasting more spotless days during the Cycle 24-25 transition with the solar minimum happening in May 2020. Cycle 25 is expected to be similar to the present cycle, which peaked in April 2014. Remember, SILSO tracks Sunspots which is not Solar Flux, so do not confuse them.

Please do not forget that the second weekend in December is the ARRL Ten Meter contest.

Countries Award: There were no Countries Awards submitted this quarter. A DXCC Most Wanted list can be found 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:

4U United Nations. The checkout of the ham radio station at the UN Headquarters in New York continues. The HF radio has been repaired and returned to the UN, and is now working well. **4U1UN** #55555, was on the air on November 27th for an hour. Since the remote station is working correctly expect to see more ops using the station. Due to UN security changes, the old radio room was on a floor that is now off limits. The new remote radio room is close to the ground floor with less security for radio ops.

5N Nigeria. Rene **DL2JRM** #69623, was using call 5N7Q from Abuja, Nigeria until November 25th. He and a friend were on SSB, CW and Digi modes. LoTW.

8Q Maldives. This rare DX spot was visited by Roly **ZL1BQD** #19039 on November 11th and he will leave on December 30th. He is using a reissued call sign 8Q7XR on all bands SSB, CW and FT8. Roly will be on FT8 a lot. So far, Roly has not been spotted on Ten Meters. Note: Maldives is off the coast of India in the Indian Ocean which is about half way around the world from the USA. It has been nineteen years since a 10-10 member was on the Maldives and gave out a 10-10 number! Good luck.

9H Malta. Rene **DL2JRM** #69623, was in Malta using call 9H3YY from October 18- 21st but no reports on Ten.

D6 Comoros Islands. Antonio **IZ8CCW** #70101 and friends, were on the

island from October 20th to November 1st on CW, SSB and Digi with call sign D68CCC.

EA8 Canary Islands. Andrea **IK1PMR/HB9FKK** #62272 arrived on the island about November 21st and will stay several weeks. QSL to his Swiss call sign.

EA9 Ceuta & Melilla. Rene **DL2JRM** #69623, was on in August and September as EA9/DL2JRM mostly on CW.

FO/M Marquesas Island. Eight ops were on from November 6-20th from Marquesas using call TX7T. The only 10-10 member is Bob **K4UEE** #75256. Website: <http://www.Marquesas2019.com>.

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

HC Ecuador. Uwe **DL8UD** #70315, was not able to return to Ecuador to operate call HC5M in October.

HK0/S San Andres & Prov. Nine operators were on the island from October 15-29th using a special call 5K0K. SSB, CW, FT8 and RTTY all bands. The only 10-10 member was Rob **HK3CW** #70309. LoTW.

HS Thailand. Ken **K4ZW** #18573, was in Thailand during November using call **HS0ZLD**. He returned home the last week of November. No info on Ten activity.

J6 St. Lucia. Jay **AA4FL** #8436, Bruce **KM2L** #3627 and friends, were in St. Lucia the last weekend of October for the CQWW SSB contest. The special contest call was J68MD since most of the ops are in the medical field. Before the contest, they used J6/home calls. LoTW.

JT Mongolia. Four Russian ops were at a national park using call JT7A from September 5-8th. The only 10-10 member was Serge **UA0SE** #25998. This is a rare DX location for 10-10 but not a new one on Ten as a Russian 10-10 member has operated from Mongolia in past years.

P4 Aruba. John **W2GD** #14109 was back again using call P40W in October for the CQWW DX SSB contest and November 23rd for the CW contest. John should be back in mid February for the ARRL DX CW contest as well. LoTW.

PJ7 St. Maarten. Philip **N2HX** #25435, was in the CQ WW SSB contest at the end of October using call PJ7PL. He came back home about November 2nd.

V3 Belize. James **NT5V** #40882, was in Belize from October 5-12th using call V31JW. He uploaded his logs to LoTW when he returned to the US. No bureau cards.

Scott **K5PW** #52535, was using call sign V31CQ during the last weekend of November for the CQWW CW contest.

V4 St. Kitts. Gaylord **N4SF** #00568, was on the island in October as V4/

N4SF and using contest call V49V. Gary **G0FWX** #49106 was on St. Kitts from November 6- 12th using call V47FWX. LoTW.

V6 Micronesia. AL **K7AR** #2736, operated from Pohnpei from November 18-26th using call V63AR. He was in the CQ WW CW contest during that weekend.

Shoji **JA7HMZ** #30900, was not able to operate from Pohnpei from November 22-27th using old call V6A.

VP2V British Virgin Islands. Bill **N5AQ** #72637 and friend Jeff VP2VEM were on the Br. Virgin Islands from October 4-13th with Bill using call VP2V/N5AQ. They operated on CW, SSB and Digi using 400 watts. LoTW.

VP6 Pitcairn Island. A DXpedition to Pitcairn started on October 18th and ended on November 1st with more than 80,000 QSO's in the logs. There were five 10-10 members: Hal **W8HC** #12502, Pat **K0PC** #37931, George **N4GRN** #73941, Mike **K9NW** #29804 and Mike **W0VTT** #14404. A medical problem for Ralph **K0IR** #2609, kept him home. Website: <https://PitcairnDX.com>. **Note some history:** The famous Tom Christian VP6TC #73104, died in July 2013. Miralda **VP6MW** #50434 is back on the island but she does not have a Ten meter antenna presently. But you can find Miralda on 15 Meters and work her using FT8.

VP9 Bermuda. Les **N1SV** #71546, was not able to get back to Bermuda for the CQWW DX SSB contest in October.

UPCOMING DX & NEW 10-10 ACTIVITY:

3D2/R Rotuma Island. Tony **3D2AG** #72719, will be on the air from Rotuma from December 17th to mid-January 2020. He did not give out any info if he will operate Ten. He will use FT8 and upload these contacts to LoTW. Paper logs for all other contacts on CW, SSB and RTTY.

CY0 Sable Island. Dan **W4DKS** #5395, Bob **K4UEE** #75256 and Will **AA4NC** #15774, will be on Sable Island in October 2020. No call sign has yet been issued. LoTW.

FP St. Pierre & Miquelon Islands. Eric **KV1J** #31247, will be returning to Miquelon from June 30th to July 12, 2020. He will use call FP/KV1J mostly on SSB and Digi.

HR Honduras. Gerard **F2JD** #63443, will be back in Honduras from December 12 to April 4th.

KL7 & VY Alaska & Yukon. The 5th Annual Worked All RST special event starts January 1, 2020 and runs thru February 28th using SSB, CW and Digi modes. The 10-10 members that I found that might be on the air are: Tim **NL8F** #32796 in Dutch Harbor, Ron **KL7YK** #76118 in Anchorage, and Bob **VY1MB** #71017 in Whitehorse, Yukon. There will be many ops on the air and on other

bands besides Ten. Info: www.qrz.com/loopup/K7ICE.

P4 Aruba. John W2GD #14109 will be back using call P40W in February for the ARRL DX CW contest. LoTW.

VP8 South Orkney Island. A nice big DXpedition will begin on February 20, 2020 for fourteen days to South Orkney Island. The call on the website is listed as VP8/VP8DXU. The only 10-10 member will be Gene K6GS #15119. Past activity from the island by a member was in February 2011, so visiting the island only happens about every ten years. Website: <https://SOrkney.com>.

MISCELLANEOUS ITEMS & NOTES:

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

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

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

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

Propagation: I expect the solar flux to range from 66-75 during the Winter for the USA. The Winter Solstice is when Fall ends on December 21st, the days are the shortest of the year and the Sun is 23.4 degrees below the equator.

Our solar cycle 24, is now going through the solar minimum phase, until we begin cycle 25, probably in 6-12 months. The natural cycle of the sun is 11 years and we are now ten-plus years into cycle 24. Cycle 25 could start as early as Summer 2020, then the sun would take 1 year of higher ionization before we

get the better conditions.

The monthly maximum solar fluxes for 2019: Jan 76, Feb 72, March 81, April 81, May 79, June 70, July 68, Aug 69, Sept 74, Oct 71 and Nov 72.

The monthly minimum fluxes for 2019: Jan 68, Feb 70, March 68, April 67, May 68, June 66, July 66, August 66, Sept 67, Oct 64, and Nov 69.

On December 1st, the solar flux was 71, the A index was 4 and K index was 1. These solar numbers indicate the poor propagation we continue to experience. We are passing through a Cycle 24 bottom. The USAF solar flux forecast for December 1st to January 14th has a range from 69 to 70.

My Prediction: Over the next three months, the best conditions on Ten could be: December 14-18th, January 2020 10-14th, February 6-10th, March 4-8th. For the lower USA, expect a 15% chance of DX to Europe or Asia with a 25% chance of DX to South America and later in the day to the S. Pacific. Listen for the CW beacons from 28.175-28.300 to see if the band is open. Use FT8 if possible.

There were no new 10-10 DX members from September to November 2019. Sept-Nov: none. This DX News edition is my number 118.

Thanks to the Daily DX by Bernie 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.

DX IS! 73 Mike Davidson N5MT #24949
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AWARDS MANAGERS

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

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

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.	3400	DL0X	DL0X
4.	2100	W8PGW	W8PGW
5.	1800	W1NRG	W1NRG
6.	1200	NM5MD	NM5MD
7.	1100	W4MNM	W4MNM

DIGITAL AWARDS

500 CONTACTS

NO.	CALL	10-10#
9	WA2HMM	40510

WPX AWARD

100 BAR

NO.	CALL	10-10#
389	KD5EDL	71833

200 BAR

NO.	CALL	10-10#
227	KD5EDL	71833

300 BAR

NO.	CALL	10-10#
226	KD5EDL	71833

400 BAR

NO.	CALL	10-10#
130	KD5EDL	71833

500 BAR

NO.	CALL	10-10#
77	KD5EDL	71833

600 BAR

NO.	CALL	10-10#
30	KD5EDL	71833

700 BAR

NO.	CALL	10-10#
17	KD5EDL	71833

800 BAR

NO.	CALL	10-10#
15	KD5EDL	71833

ELECTION 2020 CALL FOR NOMINATIONS

10-10 International holds an election every two years. In the year 2020 we will be electing the Vice President/Secretary, and three (3) Directors, whose terms will commence January 2021. The organization does not run itself, so if you have ever thought about participating in the running of our organization, this is a great opportunity to do so! Nominations must be sent to the Nomination Committee prior to May 1, 2020.

The Nominating Committee develops a slate of eligible candidates by June 1, 2020. The chairman of the committee will provide each potential nominee with information regarding eligibility and specifying the information required by the committee. The chairman of the committee will notify members selected by the Nominating Committee, in writing. Members not selected by the committee may petition for candidacy by having a petition signed by 50 full members and presented to the Secretary by July 1, 2020. A nomination information form is required and is available from the Nominations Committee Chairperson. Further questions concerning the election/nomination process may be addressed to Paul Hemby, WN4AMO #73925 pthemby@hotmail.com.

QUALIFICATION FOR NOMINATION TO BE AN OFFICER OR DIRECTOR OF 10-10

In accord with the bylaws, no member of 10-10 may qualify for nomination to be an Officer or Director of 10-10 unless he or she has been a full member for more than four (4) years immediately preceding his/her Nomination, and that he/she can show that their membership will remain current during the period of the office they are seeking. The Nominating Committee or Petition for Candidacy are the only methods to be used by members who wish to be nominated.

SELECTION BY THE NOMINATING COMMITTEE

The Nominating Committee is charged with the task of selecting from those who indicate a desire or willingness to serve as an Officer or Director and to form a slate of candidates who the committee believes represent the best qualified candidates from information submitted to the Committee.

PETITION FOR CANDIDACY

Members and nominees not selected by the nominating committee may petition for candidacy. Such petitions shall be signed by 50 current members and submitted to the Secretary by July 1, 2020.

BIOGRAPHICAL SKETCH

All Candidates, whether selected by the Nominating Committee or by Petition, must submit a biographical information form and biographical sketch. The Nominating Committee will use this information in the process of selecting a slate of Candidates. Those who petition for nomination must submit a biographical information form to be provided by and returned to the Secretary. This biographical outline, not to exceed 200 words of narrative, shall be printed in the July 2020 issue of the 10-10 News.

NOTIFICATION OF POTENTIAL NOMINEES

The chair of the Nominating Committee shall notify members selected by the Nominating Committee to be candidates in writing. The chair of the Nominating Committee shall also notify, in writing on or before June 1, 2020, members who are not selected by the nominating committee, and inform them of the proper method of placing their names in nomination by petition.

ELECTION TIME LINE

- ☑ Call for Nominations will be printed in the January and April 2020 edition of the 10-10 NEWS.
- ☐ 1 May 2020 - Candidates must have names and bios to Nominating Committee.
- ☐ 1 June 2020 - Nominating Committee will develop slate of candidates and notify members who applied but were not selected.
- ☐ 15 June 2020 - Deadline for Petitions for Candidacy to Secretary.
- ☐ Ballots and all Candidates' bios to be printed in July 2020 edition of the 10-10 NEWS.
- ☐ 1 October 2020 - **"In Hand"** Deadline for return of Ballots.
- ☐ 1 November 2020 - Election results posted on 10-10 Web Site.
- ☐ 1 January 2021 - Newly elected officers take office.
- ☐ Election results posted in January 2021 edition of the 10-10 NEWS.



Net Report

Bob Farrow, N6OPR
(#45715)

Net reports for 3rd Quarter 2019

MONDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
1-Jul	3	0	1-Jul	10	0
8-Jul	2	0	8-Jul	9	1
15-Jul	2	0	15-Jul	3	0
22-Jul	2	0	22-Jul	7	0
29-Jul	2	0	29-Jul	3	0
5-Aug	2	0	5-Aug	7	0
12-Aug	2	0	12-Aug	7	0
19-Aug	2	0	19-Aug	9	0
26-Aug	2	0	26-Aug	4	0
2-Sep	2	0	2-Sep	8	0
9-Sep	2	0	9-Sep	8	0
16-Sep	2	0	16-Sep	10	1
23-Sep	8	0	23-Sep	7	0

TUESDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
2-Jul	19	4	2-Jul	2	0
9-Jul	17	7	9-Jul	2	0
16-Jul	10	0	16-Jul	2	0
23-Jul	11	2	23-Jul	2	0
30-Jul	17	7	30-Jul	2	0
6-Aug	9	0	6-Aug	2	0
13-Aug	10	0	13-Aug	2	0
20-Aug	7	0	20-Aug	2	0
27-Aug	15	1	27-Aug	2	0
3-Sep	8	0	3-Sep	2	0
10-Sep	9	0	10-Sep	2	0
17-Sep	9	1	17-Sep	2	0
24-Sep	7	0	24-Sep	2	0

WEDNESDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
3-Jul	25	6	3-Jul	XX	XX
10-Jul	10	0	10-Jul	XX	XX
17-Jul	12	0	17-Jul	5	0
24-Jul	16	0	24-Jul	3	0
31-Jul	9	1	31-Jul	5	0
7-Aug	9	0	7-Aug	2	0
14-Aug	10	0	14-Aug	4	0
21-Aug	10	0	21-Aug	3	0
28-Aug	10	0	28-Aug	2	0
4-Sep	9	0	4-Sep	5	0
11-Sep	8	0	11-Sep	3	0
18-Sep	9	0	18-Sep	2	0
25-Sep	8	0	25-Sep	3	0

THURSDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
4-Jul	25	5	4-Jul	2	0
11-Jul	10	0	11-Jul	4	0
16-Jul	12	4	16-Jul	4	1
25-Jul	9	1	25-Jul	4	0
1-Aug	14	1	1-Aug	3	0
8-Aug	12	1	8-Aug	5	2
15-Aug	7	0	15-Aug	2	0
22-Aug	11	0	22-Aug	4	2
29-Aug	10	0	29-Aug	2	0
5-Sep	7	0	5-Sep	3	0
12-Sep	8	0	12-Sep	2	0
19-Sep	7	0	19-Sep	6	0
26-Sep	10	0	26-Sep	5	0

FRIDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
5-Jul	2	0	5-Jul	2	0
12-Jul	2	0	12-Jul	2	0
19-Jul	5	0	19-Jul	2	0
26-Jul	11	0	26-Jul	2	0
2-Aug	10	2	2-Aug	2	0
9-Aug	4	0	9-Aug	12	0
16-Aug	2	0	16-Aug	9	0
23-Aug	2	0	23-Aug	9	0
30-Aug	2	0	30-Aug	0	0
6-Sep	2	0	6-Sep	12	0
13-Sep	5	0	13-Sep	6	0
20-Sep	2	0	20-Sep	8	0
27-Sep	2	0	27-Sep	11	0

SATURDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
8-Jul	2	0	8-Jul	XX	XX
13-Jul	2	0	13-Jul	XX	XX
20-Jul	2	0	20-Jul	XX	XX
27-Jul	2	0	27-Jul	XX	XX
3-Aug	2	0	3-Aug	XX	XX
10-Aug	2	0	10-Aug	XX	XX
17-Aug	2	0	17-Aug	XX	XX
24-Aug	2	0	24-Aug	XX	XX
31-Aug	2	0	31-Aug	XX	XX
7-Sep	2	0	7-Sep	XX	XX
14-Sep	2	0	14-Sep	XX	XX
21-Sep	2	0	21-Sep	XX	XX
28-Sep	2	0	28-Sep	XX	XX

XX= No Net Called

10-10 NET CONTROL STATIONS

ALL NETS BEGIN AT 1800Z

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)	Tim, K1IEB	#74965	AZ
Sat (28.380)	Mike, KF4WKY	#70191	NC
Sat (28.800)	Open. Contact Bob N6OPR for info		
Alternate	Bob, K6DNR	#75386	CA

Sunday NEVER ON SUNDAY

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



*Were you first licensed 25 years ago
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Quarter Century
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To Join or Renew, Visit:

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

For more information, please contact:

om@qcwa.org

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.



Silent Keys

Mark Steele, KD2NOM
(#77596)

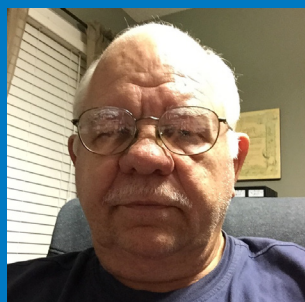
It is with sorrow that we note the following Ten-Ten members who are now Silent Keys. We extend our sincere condolences to the families and friends of those SK members whose calls and Ten-Ten numbers will forever be kept in the records of the Ten-Ten Net.

10-10#	Call	Name - City, State
3630	W9FRF	Charles R. Sutcliffe - Madison, WI
4178	K9FZ	Alexander P. Lapinski - Hudson, WI
5801	WT3M	Robert C. Neumann - Timonium, MD
6528	W4TR	William D. Lindley - Greensboro, NC
7511	KA4D	Billy M. Ledford - Walland, TN
7829	KT4VS	Jerry S. Gordon - Statesville, NC
10821	K5DJ	Ronnie J. Stailey - Round Rock, TX
11454	K1VWJ	Richard L. Searle - Wilton, NH
12153	W2TYO	William L. Kimbell - Wildwood, FL
17035	W9TWW	Ralph P. Trapper - Coconut Creek, FL
17998	W6CU	Irving 'Ed' Hardin - Mesquite, NV
18586	K6HNZ	Kenneth A. Ruddock - San Bruno, CA
20030	WA9LHP	Robert N. Cobb, Jr. - Fort Wayne, IN
21629	KM4MP	Mark R. Phillips - Cleveland, TN
22700	K1DXA	Philip W. Bittel - Torrington, CT
23088	KC4UU	Jo Ann Henry - Abbeville, SC
23212	WA4NRA	John R. Moody - Raleigh, NC
24524	N3DM	Richard D. McCoach - Hilltown, PA
24571	WA3CKN	Donald M. Garber - Hazleton, PA
26818	WN4FVU	Martha W. Henson - Manassas, VA
27688	W2KYR	Ronald W. Paninski, Sr. - Cicero, NY
28467	KC5MG	Bruce C. Husband, Sr. - Pearland, TX
28537	K8APD	A Douglas Brown - Franklin, WV
28736	WB3FCA	Gilbert D. Slagle - Greensburg, PA
29597	K8HIB	Paul J. Nepote - Traverse City, MI
30005	KL7NO	Albert E. Noe - Fairbanks, AK
30448	K8TNT	Gary M. Chazick, Sr. - Grand Blanc, MI
32055	WJ4U	George Edward Short - Rockingham, NC
34598	W4GLS	Thomas Lowndes, Jr. - Stone Mountain, GA
37309	KA4UIV	Barbara Ann Mattson - Spartanburg, SC
37512	W2SIS	Henry L. Wolfe - Newburgh, NY
37551	N2BOW	Joel R. Higgins - Hillsborough, NJ
37589	K2WX	Eric T. Hansen - Staten Island, NY
38069	W5ODD	James R. Bobo - Harlingen, TX
38593	W7SOY	Alfred E. Wolfe, Jr. - Shoreline, WA
38624	K1LW	Carl V. Brinck, Jr. - Cromwell, CT

10-10#	Call	Name - City, State
39117	KC0GM	Carol Ann Cooper - Cedar Falls, IA
39345	OE3HCS	Horst Nurschinger - Klosterneuburg,
43311	W9AOR	Robert J. Szuch - Machesney Park, IL
45049	NS0B	Alan L. Braun - Norwalk, IA
45405	N8DYE	James R. Harris - Mansfield, OH
47385	KC4CGG	Philip J. Weiss - Columbia, SC
47597	N5PEN	Richard S. Carnett - Carriere, MS
48309	K2HPV	Herbert L. Schuler - Clarksboro, NJ
55673	N7MUC	Bernice E. Peterson - Scottsburg, OR
56064	KW4RL	Robert J. Lenz - Murphy, NC
56095	K4EB	Larry E. Junstrom - Interlachen, FL
57039	KC4PZA	Jack W. Evans - Chelsea, AL
57525	N4MAA	Michael A. Anderson - Saint Petersburg, FL
59497	AB2RE	Roy H. Edwards, Sr. - Neptune, NJ
60105	KA1AQP	Richard D. Kenadek - West Millbury, MA
60166	KD1TH	Paul T. Leonard - Bedford, NH
60404	KC4SOT	James H. Styles, Sr. - Statesville, NC
60611	N2LYV	Dominick Mangano - Grand Rapids, MI
63052	W3NLB	Norton Leigh Bassett, Jr. - Columbia, MD
63632	KG8KJ	Jim H. Sickles - Perrysburg, OH
63639	KF4WVW	Brian D. Gasson - Piqua, OH
64272	KA2KQG	Sherwin C. Levy - Boca Raton, FL
65024	K5EUN	Joe E. Harry - Arlington, TX
66703	AB2AF	Arthur J. Herbert - Barton, NY
67023	K5BL	Robert E. Lentz - McKinney, TX
67465	WD9ON	Domingo M. Rivera, Jr. - Omro, WI
68501	N1MR	Mark L. Robinson - Milton, VT
68745	NJ4P	Leslie Locklear - Fayetteville, NC
70332	N1ZEN	Lee A. Rand - Falmouth, MA
71449	W4PKO	Ronald A. Marshall - Melrose, FL
72089	N5DRG	Danny R. Goodrum - Cedar Park, TX
72277	K6IRA	Ira S. Gottfried - Los Angeles, CA
72383	K8NKE	Dale W. Messerschmidt - Tecumseh, MI
74062	NE3E	John W. Lawrence - Greensburg, PA
74476	N4PN	Paul H. Newberry, Jr. - Macon, GA
74504	DH5FA	Frank Ader - Velbert-Langenberg,
75157	W1NRI	James J. Gaston - Middletown, RI
76571	KF7WMO	Herman Tickle - Mesa, AZ
76756	KB9WAF	David A. Wahl - Seymour, WI

Thanks to K2HAT #76138, K6RDK #65812, KD5DE #33513, WA6POZ #21274 and Mary at QST Magazine for their assistance with this month's listings.

Mark 73, KD2NOM #77596



QSO Parties

Dan Morris, KZ3T
(#41015)

2019 SPRINT QSO PARTY

Oct - 10

TOP TEN

CALL	10-10#	CTX W	CTX WO	TOTAL
1. DL8YBM	36109	39	72	150
2. DL6DK	39944	25	11	61
3. K7CWS	50288	12	0	24
4. WA2HMM	40510	3	9	15
4. K8IZK	73889	6	3	15
5. K8DEL	2978	6	2	14
5. N5MT	24949	4	6	14
5. W1LIC	46677	4	6	14
5. W7MC	69078	7	0	14
6. KM4ODS	77504	6	1	13
7. KD5DE	33513	5	2	12
8. W8PJY	14574	5	0	10
8. AK4YS	75328	5	0	10
9. W0RTV	13962	4	1	9
10. AB7WP	77529	4	0	8

CALL AREA ORDER

CALL AREA 0

CALL	10-10#	CTX W	CTX WO	TOTAL
W0RTV	13962	4	1	9

CALL AREA 1

CALL	10-10#	CTX W	CTX WO	TOTAL
N1BRL	77655	3	0	6
N1API	25468	2	0	4

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	3	9	15

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
W1LIC	46677	4	6	14
KM4ODS	77504	6	1	13
AK4YS	75328	5	0	10
KN4Y	17757	3	1	7
KD4AMP	59739	2	3	7
KO4OL	67730	1	0	2

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
N5MT	24949	4	6	14
KD5DE	33513	5	2	12

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
K7CWS	50288	12	0	24
W7MC	69078	7	0	14
AB7WP	77529	4	0	8

CALL AREA 8

CALL	10-10#	CTX W	CTX WO	TOTAL
K8IZK	73889	6	3	15
K8DEL	2978	6	2	14
W8PJY	14574	5	0	10

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
KA9JCP	50609	2	2	6

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
K8IZK	73889	6	3	15
AK4YS	75328	5	0	10

COUNTRY ENTRIESGERMANY

CALL	10-10#	CTX W	CTX WO	TOTAL
DL8YBM	36109	39	72	150
DL6DK	39944	25	11	61

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
DF0IA	68914	39	72	150	0
DL0BIC	77526	25	11	61	0
NM5H	68588	4	6	14	0
W1NRG	29650	2	0	4	0

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
DL8YBM	36109	39	72	150
DL6DK	39944	25	11	61
K7CWS	50288	12	0	24

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	3	9	15
K8DEL	2978	6	2	14
N5MT	24949	4	6	14
W1LIC	46677	4	6	14
W7MC	69078	7	0	14
KM4ODS	77504	6	1	13
KD5DE	33513	5	2	12
W8PJY	14574	5	0	10
W0RTV	13962	4	1	9

LOW POWER (cont.)

CALL	10-10#	CTX W	CTX WO	TOTAL
AB7WP	77529	4	0	8
KN4Y	17757	3	1	7
KD4AMP	59739	2	3	7
KA9JCP	50609	2	2	6
N1BRL	77655	3	0	6
N1API	25468	2	0	4
KO4OL	67730	1	0	2

CHECK LOGS

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
N4SVC	75836	2	3	7	0

2019 FALL CW QSO PARTYOct 19 - 20TOP TEN

CALL	10-10#	CTX W	CTX WO	TOTAL
1. N4ZCG	56067	11	4	26
2. KM4ODS	77504	5	6	16
3. KJ4RV	37776	7	0	14
3. AK4YS	75328	7	0	14
4. K4FET	77603	5	3	13
5. KN4Y	17757	2	0	4
6. W1LIC	46677	0	3	3
7. NA9A	31121	1	0	2
7. WB6OJB	70675	1	0	2
7. K9DXA	75703	1	0	2
8. WA2JSG	9712	0	1	1

CALL AREA ORDER**CALL AREA 2**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2JSG	9712	0	1	1

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	11	4	26
KM4ODS	77504	5	6	16
KJ4RV	37776	7	0	14
AK4YS	75328	7	0	14
K4FET	77603	5	3	13
KN4Y	17757	2	0	4
W1LIC	46677	0	3	3

CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
WB6OJB	70675	1	0	2

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
NA9A	31121	1	0	2
K9DXA	75703	1	0	2

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
KJ4RV	37776	7	0	14
AK4YS	75328	7	0	14

HIGH POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
WB6OJB	70675	1	0	2

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	11	4	26
KM4ODS	77504	5	6	16
K4FET	77603	5	3	13

LOW POWER (cont.)

CALL	10-10#	CTX W	CTX WO	TOTAL
KN4Y	17757	2	0	4
W1LIC	46677	0	3	3
NA9A	31121	1	0	2
K9DXA	75703	1	0	2
WA2JSG	9712	0	1	1

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	5	83
CITY OF LIGHTS	1	2

Fall CW QSO Party comment:

Boy, what a long weekend! Got 2 from Terry and never heard another signal. - KN4Y (Ed)

2019 FALL DG QSO PARTY**Nov 9 - 10****TOP TEN**

	CALL	10-10#	CTX W	CTX WO	TOTAL
1.	WA2HMM	40510	23	40	86
2.	N3GTY	50585	13	6	32
3.	KM4ODS	77504	15	1	31
4.	KD5DE	33513	14	0	28
4.	N4ZCG	56067	11	6	28
5.	AK4YS	75328	13	1	27
6.	KJ4RV	37776	12	1	25
7.	N4ERM	34524	11	0	22
8.	KD5ILA	77652	9	1	19
9.	N0LD	68878	4	10	18
10.	KO4OL	67730	6	5	17

CALL AREA ORDER**CALL AREA 0**

CALL	10-10#	CTX W	CTX WO	TOTAL
W0RTV	13962	8	0	16

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	23	40	86
W2VTV	71275	0	1	1

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
N3GTY	50585	13	6	32
KM4ODS	77504	15	1	31
N4ZCG	56067	11	6	28
AK4YS	75328	13	1	27
KJ4RV	37776	12	1	25
N4ERM	34524	11	0	22
KO4OL	67730	6	5	17
KZ3T	41015	5	0	10
W1LIC	46677	2	0	4

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
KD5DE	33513	14	0	28
KD5ILA	77652	9	1	19
N0LD	68878	4	10	18

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
AJ7B	7675	2	9	13

LOW POWER

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	23	40	86
N3GTY	50585	13	6	32
KM4ODS	77504	15	1	31

LOW POWER (Cont.)

CALL	10-10#	CTX W	CTX WO	TOTAL
KD5DE	33513	14	0	28
N4ZCG	56067	11	6	28
N4ERM	34524	11	0	22
KD5ILA	77652	9	1	19
N0LD	68878	4	10	18
KO4OL	67730	6	5	17
W0RTV	13962	8	0	16
AJ7B	7675	2	9	13
KZ3T	41015	5	0	10
W1LIC	46677	2	0	4
W2VTV	71275	0	1	1

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
NZ4FF	77686	13	6	32	N3GTY
K4MN	24874	15	1	31	KM4ODS
W5RRV	42114	14	0	28	KD5DE

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	9	238
STEAMBOAT	2	56
GATEWAY	1	16

Fall Digital QSO Party comments:

Had a great time. Band was only open on Saturday from 9:30AM-12:00PM.
Heard nothing on Sunday at all. - KD5ILA (Jack)

Worked all day on Saturday and Sunday with constant monitoring and made numerous contacts. Great time. - WA2HMM (Charlie)

10-10 SCHOLARSHIP FOUNDATION SUPPORTERS

We encourage all of our members to support the 10-10 International Net Scholarship Foundation. Our goal has always been to fund our scholarships entirely through member donations. At the Scholarship Foundation meeting in June, the Foundation Board voted to guarantee the funding for four \$2000 scholarships to be awarded in 2020. 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.. If you have an employer matching program, please let us know. **If you haven't donated before, we want you to know that all donations are appreciated and they do add up.** At the time you make a donation to your favorite charity, please consider a donation to the 10-10 Scholarship Foundation 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 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 26.

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

Platinum (\$1000 or more)

N5MT Michael Davidson 24949

Gold (\$500 to \$999)

None

Silver (\$100 to \$499)

KD5HIP John Zumbro 71476

Bronze (Up to \$99)

WA2SUH Larry Berger 00407
WA2CDL Andy Kirschenbaum 03087
AH6KB Charles Hibbs 19630

Bronze (cont.)

WA2EJO	Robert Berger	27615
KH6OE	Patricia Hibbs	28842
KK8T	John Hess	59832
K2MSB	Matthew Berger	60606
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 most recent winners are featured in the Fall issue and on the 10-10 website. **Over the past 32 years, 10-10 has funded 122 scholarships valued at \$155,000.**

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

10 Meter Beacons

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

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

73 Dennis Stice WI5V #35806

IARU Region 2 HF Beacon Coordinator

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

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 2020

AE6Q, Mary	Committee Member	KZ3T, Dan.....	Director/QSO Party Manager
AJ7B, Randy.....	Newsletter Editor	N0TW, Terry	Past President
G4BLH, Mike	Awards – GB	N2WIE, Tony.....	Awards – 1000+ Bars
K0DBK, Brad	Awards – Counties	N5MT, Mike.....	Awards – DX
KD2NOM, Mark	SK Manager	N6ELK, Louise.....	Net Control
K4QHH, Bob.....	Award Manager-Mobile & VP	N6OPR, Bob.....	Director/Net Manager
K5BKT, Peggy	Committee Member	N7YG, Jeff.....	IT Manager
K5ERJ, Ed	Committee Member	N9AC, Gerald	W6OI Trustee
K6DNR, Bob	Net Control	NP2MR, David.....	Committee Member
K6RDK, David	Data/ Membership Manager	NZ1I, Kevin.....	Awards WAC
K7CWS, Ray	Net Control	VA7GY, Garry	Committee Member
KA0ZPP, Jim	Director/Chapter Coordinator	VE3MEW, Bill	Committee Member
KA5VVD, Bob.....	Committee Member	W5DJT, David.....	Committee Member
KC5ILO, Tom	Director/ Publications	W5SUM, Ronnie.....	Historian
KD5DE, Mel.....	President	WA2SUH, Larry	Scholarship Manager
KF4WKY, Mike.....	Net Control	WA3GM, Greg	Vice President
KG5RJ, Greg.....	Committee Member	WA6POZ, Gerry	Software Support
KI6OY, Lee	Awards – CW	WB0CON, Eva	Awards – WAS
KJ5SZ, Hugo	General Counsel	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 IN THE QSO PARTY HANDBOOK

RF SAFETY

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

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

Isolate ground-mounted verticals with fencing or other barriers which are

effective especially in preventing children from touching a potentially active antenna. A vertical in or adjacent to a children's play area may mean station silence during periods when children are present: if contact is not a danger, radiation may be.

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

STATION GROUNDING

Everyone is familiar with the need for a common ground bus for all station equipment with as short a lead as possible to a ground rod outdoors. If you

have a tower, it should also be ground rodded. All ground rods (including the house ground at the electrical service entry) should be connected together by the largest copper wire you can obtain. Some folks use copper flashing cut into long strips. These days, braid is not recommended because its very large surface area open to weather deteriorates it quickly. Use solid mechanical connections, not solder (which melts in the presence of lightning like a teenager in the presence of a rock start: (instantly).

If ground rods are widely separated, add ground rods in a row from end to end, spaced about the length of each ground rod apart. This is not over-kill—just the opposite. It is over-safe by holding the resistance between everything in your house and shack at the absolute minimum. Even a slight resistance may give a lightning surge an alternative path to ground through your “stuff.”

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.

INVISIBLE AND HIDDEN ANTENNAS

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.

If you live in an apartment, condo, or development with antenna restrictions, you may need to hide or disguise your antenna. Here are some ideas to get you started. First, some general principles, then some basic antenna types.

Principles: The principles are few, but very important.

1. **Safety:** Keep the antenna as far away from people as possible for their safety.
2. **Propagation:** put the antenna as high and in the clear as possible for maximum efficiency within the limits of needing to keep it out of sight.
3. **Antenna Tuner:** with few exceptions, the hidden or invisible antenna will become a random length end-fed wire. Any of the T-matches (for example, MFJ's tuners) will do a good job matching the antenna to your rig.
4. **Expectations:** do not expect the performance of a long Yagi. Instead, expect to make a lot of great contacts.

Antenna Types: The basic hidden antenna types are four in number:

1. Disguised verticals,
2. Thin wires,

3. Attic antennas, and
4. Loading existing metal.

There are dozens of variations on each theme. But, forget loading the bedsprings. Figure 1 shows a few of the places in and around the home where we might use one or more of these types of antennas.

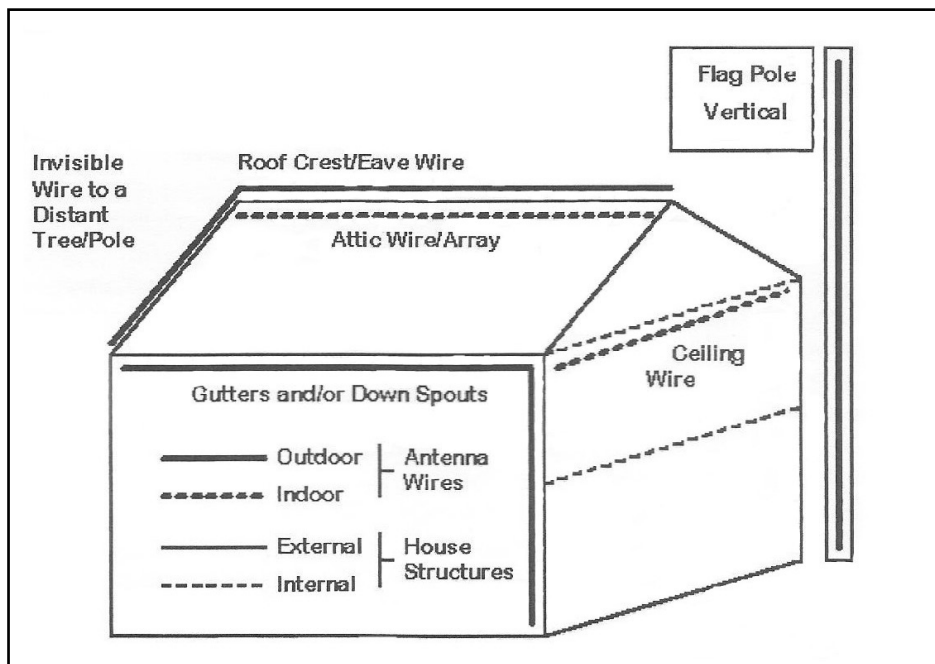


Figure 1. Places for antennas in a home.

1. **Disguised verticals:** You can encase almost any type of vertical antenna in PVC, and call the outdoor structure a flag pole,. For working dx from a development with restrictive covenants, this route is often useful, especially if you use a multiband vertical. Construction varies with the circumstances.
2. **Thin Wires:** Wire as small as #28 enamel makes a good antenna for 100-watt transceiver use. It is often invisible enough to leave running from a second-story apartment window to a tree. Or, you can put it on a reel and wind it out and in as necessary. Alternately, you can string it in the attic, turning corners wherever necessary. I have used it with success taped to the edges of a second-story ceiling. How much wire? How much have you got? Just do not end up with tight coils; try for maximum length in each direction used.

Thin wire antennas, indoors or out, are random length wires fed at the end and need a transmatch. If possible, locate the transmatch where the wire leaves the building. Otherwise, try a piece of RG-213 from the tuner to the antenna wire. Ignore the coax losses. Try a sleeve balun (such as those sold by Radio Works)

where the coax leaves the building. Ground the coax shield where the antenna begins and the tuner and every piece of equipment in the shack well—very well! The object is to do everything possible to keep RF outside or away from the rig. Some combination of sleeve balun, ferrite cores, and the like will likely solve any RF-in-the-shack problems. Keep experimenting. And be willing to spend a few dollars on wide braid to use as grounding strap; it works well, as does a good, long ground rod (replaced every few years).

3. **Attic antennas:** Putting an antenna way up and away from everything is best, but attics are not usually as bad as you might think. The frame and roof shingles do not absorb too much RF, and the braces can help support an antenna. In the attic, you can usually find room for dipoles for many bands, even if you have to bend the ends down or to the side. Mount the dipole as high in the structures as you can, and away from any metal duct work, metallic duct insulation, or house and phone wiring. Feed an attic dipole just as you would an outdoor dipole antenna, using coax and 1:1 choke balun. Trim it to resonance or minimum SWR. One caution: if your attic is insulated with foil-backed materials, it may prove unsuitable for an antenna.

The attic may also hold a 2- or 3-element Yagi fixed on your favorite target. You can adjust element lengths for thinner wire elements and do away with the boom. If you use tubing, getting it into the attic may be a problem if the access opening is small. First, build and test the antenna, then cut it into pieces that will fit the opening, developing couplings to reconstruct it on site. (Back before cable, I put a 12'-long TV log periodic in the attic just that way: I used wire on a wood frame, cut the wood into entry size pieces, and used linking pieces to reassemble the frame before restringing the wire. I obtained great reception from Atlanta, about 70 miles away.)

4. **Loading existing metal:** Perhaps the most obvious aluminum structure to load is the gutter and down spout. Treat the system like a thin wire antenna and use a tuner, driving a ground rod near the feed point. Be sure to securely bond the joints, since painted aluminum joints with pop rivets make a shaky electrical system. Expect changes in pattern and antenna tuner settings with water, snow, or leaves in the gutter.

You can also load patio umbrellas, existing aluminum flag poles, and other metal structures. You can shunt feed a grounded flag pole. Avoid iron and steel structures if an alternative is possible, since their losses are fairly high, but use them in a pinch. Even the frame of a sliding patio door will radiate and receive.

Anticipated results: Compared to a high and free outdoor antenna, these substitutes will likely disappoint you for local area point-to-point work on 10 meters. (The outdoor invisible wire, however, may show surprisingly good results within the 10-meter point-to-point contact area.) Do not sell the hidden antennas short with skip. Their low height may produce high take-off angles, but still produce very solid contacts, even in 10-10 contests. The idea is NOT

to try to compete with the 1.5 kW linears feeding 7-element quads at 105' altitudes. Instead, find modes of operations to which the antenna is better suited.: rag chewing, nets, and even informal contesting. Most of these hidden or invisible antennas will usually outperform loops and other tiny antennas (but these miniatures will also work in making contacts).

If your situation calls for these measures, develop an attitude: be on the lookout for better places (higher and bigger) for the next design. Most of these antennas are cheap, but do not skimp on quality coax, connectors, ground rods, baluns, and filtration. Use the same high quality components that you would put into an outdoor tower and beam. Part of your attitude adjustment should be to forget the ultimate antenna efficiency, except when comparing two of your own models to see which one to keep.

Finally, be careful and considerate: keep RF out of the power lines and phone lines. It is often easier to try a different kind of hidden antenna than to filter or revise parts of the phone cable TV, or computer control wiring.

ANTENNA SAFETY NOTES

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

Static Build-Up: As the wind and weather pass over the antenna elements, a charge builds up. On long wire antennas, it can generate enough of a charge to draw a visible spark across a gap to ground. On smaller antennas it can create unnecessary static. The best way to avoid problems here is to be sure that the antenna is at DC ground. Some antennas are designed with a DC ground; others are not. For low impedance antennas (less than 150 ohms feed point impedance) fed with coax, the simplest way to insure a DC ground is to place an RF choke across the antenna terminals. This gives you a DC ground [path but leaves the antenna RF-hot. At 10-meters, a 100 micro-H RF choke provides about 1800 ohms of reactive isolation, but a low resistance to charge build-up. Just be sure your coax braid is grounded somewhere along the line so that the charge has somewhere to go other than to your equipment.

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

Tower and Coax: Some studies have shown that the bulk of lightning current travels in the shield of the coax. A considerable voltage difference can exist between a tower leg and the coax braid if the first connection between the two is at the bottom of the tower. You may want to consider breaking your coax

near the top of the tower, having one section to the antenna with the flex loop to accommodate rotation and another section down the leg of the tower. Securely fasten a plat to the tower leg and use a double female connector with chassis nuts (often called a bulkhead connector) to join the two coax lengths. This gives you a connection between the coax braid and the tower leg. This is not the only ground you should use, but an extra one.

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

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

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

Towers: Towers, whether free standing or on the roof top, require some special thought. Too few hams actually study tower installation before putting up the first one. Here are some things to think about:

1. What are the requirements for the tower base, including the concrete, rebar, excavation, etc.? Never under-support a tower at its base.
2. What, if any, are the guying requirements? If a tower is a guyed model, install the guying system to a least the manufacturer's standards. Be certain that guys are correctly and adequately anchored – and that they do not present a hazard to those who use your yard. If the tower can use a building support, be sure that building is up to the job. Most roof-line facial boards on a house are not.
3. Where does the tower go? Place it where it cannot hurt neighboring property (or people) if the tower and antenna fall under the worst conditions imaginable. Also try to place it where it will not hurt your own home and family if it falls.
4. Where do the feedlines go? Be sure that feedlines do not create either

an electrical or a physical hazard for family members or visitors.

5. What are the codes? The more urban your setting, the more you may be subject to codes and ordinances that require permits, special requirements (for example, conduit for control voltages over a certain value), inspections, and, in some cases, licensed installers. Do not under any conditions bypass these requirements. Investigate in advance to know what you have to do and what it will add to the cost of the installation.
6. What about intruders? Towers are in some places classified as attractive dangers, which is why they might be to a neighborhood child with an urge to climb. Hollering is a deterrent, but not protection. Consider fencing in or cladding the lower tower sections so that the tower cannot be climbed.
7. Are any of the tower conveniences dangerous? Crank-up and tilt-over towers are convenient, but usually rely on cables, pulleys, and gearing to go up, come down, and stay in position.

Analyze the stresses on these auxiliary parts to ensure that they can safely handle the loads. Develop a maintenance schedule for inspecting and for replacing cables before their lifetime is ended. If they die on the job, disaster often results.

Insurance: Carry all you can afford that may be relevant to hazards that antennas may present. However, never let the existence of insurance be a substitute for the best possible practice in the installation and maintenance of antennas and their supports. The lives you preserve may include your own and those of your loved ones.

This is not a complete look at all the facets of antenna safety. We have not even reminded you to keep your antenna and supports well away from power lines. But perhaps we have said enough to prompt you to do a periodic inspection of your own safety measures – and perhaps some reading into the handbooks and other literature. The three key words are these: protect, divert, and prevent. They are three ways of saying that you care enough to do the very best.

2020 Hamfest Schedule

Hamcation - Orlando, FL	February 7-9, 2020
Hamvention - Xenia, OH	May 15-19, 2020
Ham-Com - Plano, TX	June 12-13, 2020
Hamfest - Friedrichshafen, Ger	June 26-28, 2020
Hamfest - Shreveport, LA	August TBD, 2020
Hamfest - Huntsville, AL	August 15-16, 2020
Stone Mtn - Lawrenceville, GA	November TBD, 2020

2020 Ten-Ten QSO Party Schedule

Event	Dates	Postmark
Winter Phone	Feb. 1-2	Feb. 11
Spring Digital	April 25-26	May 4
Spring CW	May 2-3	May 11
Open Season	June 6-7	June 15
Spirit of 76	June 29 - July 5	July 13
Summer Phone	Aug. 1-2	Aug. 10
Sprint	Oct. 10	Oct 19
Fall CW	Oct. 17-18	Oct. 26
Fall Digital	Nov. 14-15	Nov. 23
Anniversary (58)	Jan. 1-Dec. 31	Jan. 8
Meet The Volunteers	Jan. 1-Dec. 31	Jan. 8



Roland W5SUM #2019 and Troy W5AU #10279 man the 10-10 booth at the MARA Hamfest in Minden LA.

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 on the air), date of contact, and QTH (state/province/country). The contact form and membership application is provided on the page that follows.
4. You must remit dues for one or more year's full membership. Fee schedule and payment information can be found in Section 2 of the page that follows.

TYPES OF MEMBERSHIPS

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

Primary Membership

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

Family Membership

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

Life Membership

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

Senior Life Membership

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

Family Life Membership is no longer available

Club Membership

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

Electronic Membership

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

MEMBERSHIP RENEWALS

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

DATA MANAGER SERVICES

Call/Name/Address Changes

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

All payments may be made by Check, 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

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 <https://www.ten-ten.org/misc/ten-ten-scholarships>. Your check should be made payable to the 10-10 Scholarship Foundation and sent to the Data Manager (address shown above) or the Scholarship Manager:

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

TEN-TEN QSO PARTY RULES

5.2 10-10 QSO PARTIES

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

5.2.1 WHO IS ELIGIBLE?

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

5.2.2 WHEN ARE THE QSO PARTIES?

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

Winter Phone - held on the first full weekend in February

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

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/Phone/Digital/RTTY operations is max 150 watts during the entire event.

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

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

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

5.2.5 TRANSMITTER INFORMATION

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

5.2.6 EXCHANGE

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

5.2.7 QSO POINTS

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

TEN-TEN QSO PARTY RULES

5.2.8 CHAPTER SCORE ASSIGNMENT

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

5.2.9 QSO PARTY ENTRIES

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

5.2.9.1 ENTRY DESCRIPTION

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

5.2.9.2 ENTRY DEADLINES

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

5.2.10 QSO PARTY RESULTS AND AWARDS

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

5.2.11 ANNIVERSARY and MEET THE VOLUNTEERS EVENTS

These events run from January 1 0001 UTC to December 31 2359 UTC. In the Anniversary event, entrants may submit a log of contacts with members that have the anniversary year contained in their membership number. Example: 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

This event has been cancelled until propagation conditions improve.

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

5.2.15 FOR MORE INFORMATION

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

10-10 QSO PARTY COVER SHEET

QSO Party (select one):

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

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