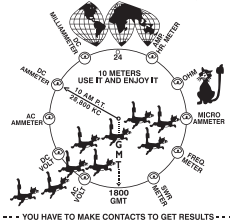


TEN-TEN INTERNATIONAL NET, INC.



# TEN-TEN INTERNATIONAL **NEWS**

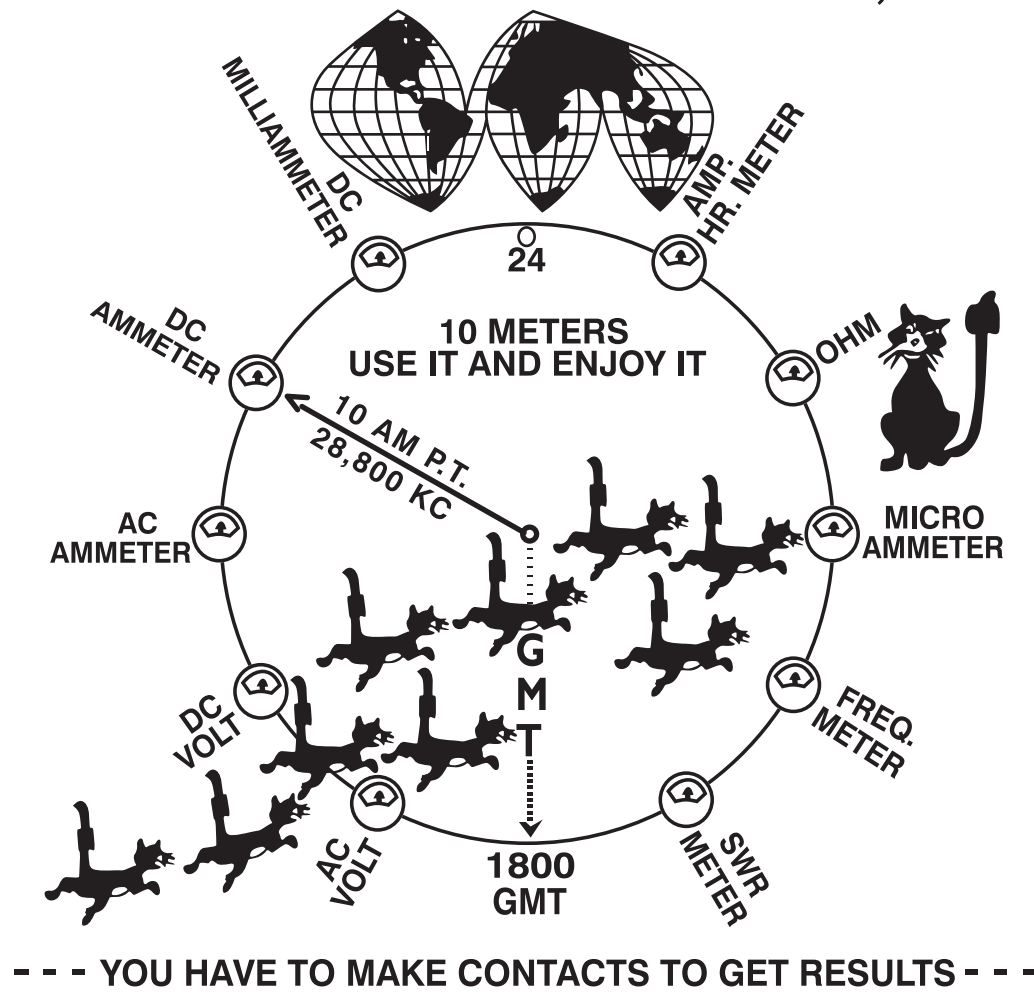


Member  
AMATEUR RADIO  
NEWS SERVICE

Volume 59 Issue 3

July 2021 (Summer)

## TEN-TEN INTERNATIONAL NET, INC.



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Monitoring 28.380 and 28.800 MHz daily at 1800Z except Sunday

## The Ten-Ten International News

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

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

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

**DEADLINE FOR NEXT ISSUE: 1 September 2021**

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

**EDITOR Ten-Ten News**

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

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

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

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

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## OFFICERS AND DIRECTORS

**President**

Mel Sojka, KD5DE #33513 (2022)

353 Atlantic Ave., Shreveport, LA 71150-2909

(318) 286-2963 ..... [kd5de@ten-ten.org](mailto:kd5de@ten-ten.org)

**Past President**

Terry Webb, N0TW, #36547

1103 Fulford Road, Monticello, FL 32344-4352

(614) 216-5334 ..... [n0twterry@yahoo.com](mailto:n0twterry@yahoo.com)

**Vice President/Secretary**

Ronnie Hull, W5SUM, #02019 (2024)

1855 Shady Lane Dr., Shreveport, LA 711118

(318) 550-8269 ..... [w5sum@comcast.net](mailto:w5sum@comcast.net)

**Treasurer**

Keith Schlottman, KR7RK #63324

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

(520) 290-5883 ..... [keithschlottman@gmail.com](mailto:keithschlottman@gmail.com)

**Directors**

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

23417 S 180th Street, Gilbert, AZ 85298

(562) 631-1393 ..... [n6opr@msn.com](mailto:n6opr@msn.com)

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

9 Nancy Blvd, Merrick, NY 01156-3119

(516) 223-4611 ..... [wa2suh@aol.com](mailto:wa2suh@aol.com)

Mark Steele, KD2NOM #77569 (2024) - Publicity

1 Karen Court, Monroe Township, NJ 08831-4037

(732) 213-0159 ..... [kd2nom@gmail.com](mailto:kd2nom@gmail.com)

Marcus Lieberman, KM5EH #71103 (2022) - Awards

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

(505) 836-1724 ..... [buckml@lobo.net](mailto:buckml@lobo.net)

Thomas Trissell, KC5ILO #72239 (2022) - Publications

487 County Rd. 1367, Clarksville, TX 75426-3479

(903) 517-1787 ..... [kc5ilo@trissell.net](mailto:kc5ilo@trissell.net)

Jim Fox, KA0ZPP #43428 (2022) - Chapters

PO Box 135, Mayhill, NM 8839-0135

(575) 687-2448 ..... [ka0zpp10ten@gmail.com](mailto:ka0zpp10ten@gmail.com)

**General Counsel**

Hugo Holland, KJ5SZ #77741

10008 Bedlington Court, Shreveport, LA 71118

No Phone ..... [dahugobrit@gmail.com](mailto:dahugobrit@gmail.com)

## NET OFFICIALS

**Chapter Coordinator**

Jim Fox, KA0ZPP #43428  
 PO Box 135, Mayhill, NM 88339-0135  
 (575) 687-2448 ..... [ka0zpp10ten@gmail.com](mailto:ka0zpp10ten@gmail.com)

**Data Manager / Supplies**

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

**Editor 10-10 International News**

Randy Mather, AJ7B #7675  
 9625 101st Ave NE  
 Arlington, WA 98223 ..... [editor@ten-ten.org](mailto:editor@ten-ten.org)

**Historian**

Ronnie Hull, W5SUM #2019  
 1855 Shady Lane Dr  
 Shreveport, LA 71118 ..... [w5sum@comcast.net](mailto:w5sum@comcast.net)

**Net Manager**

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

**QSL Bureau Manager**

Jim Stoeber, WI9X, #49635  
 173 West Pitman Ave., Battle Creek, MI 49017  
 (618) 560-7098 ..... [wi9x989@gmail.com](mailto:wi9x989@gmail.com)

**QSO Party Manager/Certificate Manager**

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

**IT Manager**

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

**Scholarship Manager**

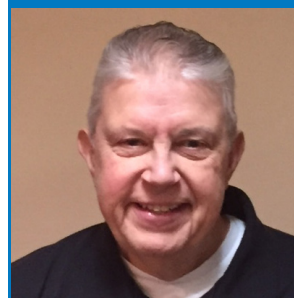
Larry Berger, WA2SUH #00407  
 9 Nancy Blvd., Merrick, NY 11566-3119  
 (516) 223-4611 ..... [wa2suh@aol.com](mailto:wa2suh@aol.com)

**SK Manager/Social Media Manager**

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

**W6OI Station Trustee**

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



# From the Editor

Randy Mather, AJ7B  
 (#7675)

I just survived Field Day 2021! Yep. I mean survived. My club setup antennas Friday evening and started operations on Saturday. By Saturday afternoon, the temperature reached 100 degrees under the pop ups we setup. The forecast for Sunday was to be even hotter. Early Sunday morning we decided to call it quits and put all the equipment back into storage. It was just unfortunate that our Field Day event this year lined up perfectly with two of the hottest days on record for the pacific northwest. It was the first time our club had any face-to-face or in-person time since we stopped having in-person meetings back in March of 2020. Not only was it too hot, but the bands weren't perking along very well either. It was nice to get to see one another in person again, but it was NOT a fun event. In just a few more days, we are expecting our governor to drop the COVID level another notch so we can have more in-person events.

I personally kept an eye on 10 meters. However, I didn't hear a thing above the background noise. I couldn't watch it all the time, so there may have been some openings we missed. I can say that the daily 10-10 International net seems to be reaching the Northwest more frequently lately. I was able to pick up a few more 10-10 numbers during the last quarter. I guess I would have to say there is some improvement in 10-meter propagation.

We have the weak-signal QSO party in a few weeks. I suggest you get familiar with WSJT-X software (FT8 and FT4). In addition, take a look at the video on the 10-10 website about how to transmit 10-10 contact information when using the FT8 mode. On the home page, you can access the video by clicking on the "FT8 HOWTO Video" link under the Breaking News heading. Or you can get to it under the "Resources" menu at the top of the page. The use of macros to add non-standard text to your transmissions works for both FT8 and FT4. The video was created using an earlier version of the WSJT-X, but most of the information is still applicable to the latest WSJT-X version.

Throughout this newsletter you will see many requests for volunteer help. We need net control operators for the daily net. We need people to manager various award categories. The 10-10 International Net's survival depends on the time and efforts of its volunteers. If you have the time, please consider volunteering for one of the many openings that exist. Contact Mel Sojka to get more involved in support of this organization. Contact information is on page 2 of this newsletter.

I hope to catch on you 10 meters and stay cool.

Randy – AJ7B



## From the President

Mel Sojka KD5DE  
#33513

### UPPER-LEVEL QRM

The past fourteen months have been a unique experience to say the least. The never-ending pandemic and increasing frustration among the population has created a never before experienced environment. Recently cyber-attacks on the infrastructure that we all depend on indicate that our hobby and passion may soon be a very valuable commodity. Hopefully, the digital radio folks will realize that their VHF mode via the Internet will become totally useless. Battery powered stations will keep the communications channels up and alive. The current preppers world is aware of this and hopefully the Amateur community will realize the same. Any mode that does not allow normal traffic will be useless. Try to pass traffic on FT8 when we can't even get members to pass their 10-10 info via that mode.

Waiting on cycle 25 to come to life is a bit like a father in the waiting room for his about to be born offspring. No one really knows what that child will become, and expectations are at the max. Recent articles on cycle 25 run from "this will be the worse cycle ever" to "it will be a vast improvement over cycle 24." Currently there are a couple a dozen sun spots nearly every day. But the index remains under 80. I am working on this article in mid-May since it is due to the Editor on June 1st. This morning, FT8 is loaded with signals and some of the western European stations are strong enough to work from Louisiana. At 1400 UTC there was a station out of NM that I can't work without rotating the mono-bander. Now that the rotor that has served me well for 29 years decided to fail earlier this year, I now depend on a vertical or dipole. Of course, in the tradition of Amateur Radio there is a crew working on installing a new rotor and hopefully that will be accomplished before this article has been proofed and sent. Like the expecting father, I am optimistic about this cycle. As it reaches maturity in 2023, I hope that we will be able to make many quality contacts.

Once again, a reminder that a 10-10 exchange is the same no matter what the mode. I realize more than some of you the frustration of folks not returning with the proper contact information. I am one contact short of a very significant bar award. All awards require a proper exchange no matter how you work the station. In recent days I have made contact with 3 known members that I have never worked before, but none of them have replied with the proper exchange.

All managers within 10-10 consider members to be honest by default. I will do nothing to betray that trust. Some will say it is just a contact, but it could violate the rules as a digital, bar, prefix, state, county, country, or any other 10-10 award policy. Hopefully I will get that contact before you read this article. If I do, it will be a legal exchange.

10-10 is an organization that is dependent on volunteers to operate. We are more than just Officers and Directors. Our committees are a vital part of the structure. Last fall, the Publications committee engaged in a page-by-page revision of the Operations Manual. This became a long-term project. Many issues were involved. Some of the content concerned things that no longer existed. Apparently, multiple word processors were involved over the years which required extensive modifications, and some new entries had to be accomplished. The five members involved were dedicated and supportive of the effort. The end product is not perfect, but it is applicable to our current policies. There are eight committees within the organization. They all are in need of fresh members. Some require very little input and are only active when needed. Others are ongoing and always active. One of the most critical are the Net Control stations. Each committee plays a vital role. Some of our volunteers are covering multiple positions. A prime example is a Bars Manager, that is also the QSO Party Manager, Certificate Manager, and until recently was a Director. This member functions superbly in each of these areas, but what happens when he cannot? Currently, the committee that supports his efforts consist of four volunteers. Three of them fill multiple positions. If your membership is current and you would consider a volunteer position, please contact me.

Now something we all desperately need: Good News. We are planning to make the Huntsville AL hamfest the big event of 2021. Normally only one official attends. But this year the Vice President W5SUM, our Treasurer KR7RK and I will be there for the two days: August 21-22. For the first time that I am aware of, we will hold a 10-10 forum at the event on Saturday. KR7RK is an outstanding forum moderator. He has given them on several topics at Dayton and other amateur events. This will be the first major hamfest since the beginning of the pandemic in March 2020. The weekend before that there will be a one-day event here in Shreveport where the Vice President and I will man a table. Also, there may be further Hamfests available after the Huntsville event. We plan to make as many as possible. It is time for Amateur Radio to recover after the crisis.

I encourage each of you to get on 10 and call CQ. There are times when beacons are heard and there are no other signals on the band. It has been proven many times that if you copy a beacon, you can easily work stations in that geographic location using CW, BPSK31, or FT8. You have to call to make contacts.

God Bless & 73

Mel KD5DE #33513



## President's Award



It is not very often one will find a member of any organization that has volunteered for multiple positions. In 1998, this year's President's Award recipient became a Bars Award Manager. In 2008 he became the QSO Party scoring official. Then in 2019 he volunteered as the Certificate Manager. If that was not enough, he served as a Director from 2016-2020. I could actually stop this paragraph at this point and the majority of our active members could name the recipient. Such dedication and service is rare, and 10-10 is indebted to this individual. It gives me great pleasure to award Dan Morris KZ3T #41015 the President's Award for 2021.

MeI KD5DE #33513

## NEW LIFE MEMBERS

10504	KØCW	Charles J Nagel	MO
61235	KR4HN	Richard B Sharp	FL
62943	KB9ZB	Ronald F Henry	WI
67602	N8ZNA	Russell E Bricker	FL
70524	N1DP	David W Perham	ME
73071	AG4ON	James Hinkle	GA
74175	W6SPY	Shannon L Mossman	WA
77340	K4GFD	Norm Scholer	FL
77613	KC7JRV	M Lance James	AZ
77878	K5PLH	Phyllis Martin	LA



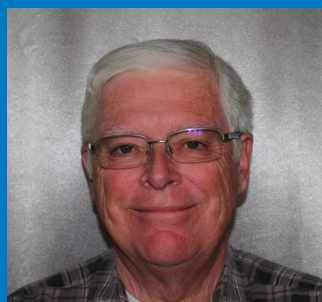
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**For more information, please contact:**  
**om@qcwa.org**



## Chapter Coordinator

Jim Fox, KA0ZPP  
(#43428)

### GENERAL NEWS

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

2) If your chapter is planning a special during the months of October, November or December, please let me know before August 31st so I can include the details in the June newsletter.

3) Reminder of Quarterly Reports Due: **In Extremis** (no report in over a year): Colorado Centennial/Frontier Gang (11/2019), Cradle of the Confederacy (06/2019), Down Under (12/2019), Route 66 (11/2019). **Past Due** (no report received during the prior quarters when due): Major League Baseball (May). Reports received after June 2 (date of this report) are not included here and will be acknowledged in the Chapters section of the 10-10 website.

Chapter Reports **Due during third quarter:** Bauxite (Sept), Castle Craig (Aug), Chesapeake Bay (Jun), Chief Seattle (Sept), Houston S.H.O.T (July), Louisiana Pelican (July). Note that Quarterly Chapter Reports may be sent any time. The months indicated here are the dates in 2020 in which the last report was received.

4) I thank **ALL CH/CM** who sent me a **complete report** during 2020 so I have up to date contact and net information. Other chapters, please send me a complete report in 2021. See [www.ten-ten.org/index.php/resources/ten-ten-documents/ten-ten-forms](http://www.ten-ten.org/index.php/resources/ten-ten-documents/ten-ten-forms) for a form to download or [www.ten-ten.org/chapters/quarterly-report](http://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.

### CHAPTER NEWS

1) Several chapters report having to resort to Zoom in lieu of face-to-face chapter meetings. Hopefully, Covid restrictions are starting to ease later this year, and regular meetings may begin to resume.

2) We sadly report that **Gold City** CH Bob, K4QHH, became a silent Key in December. Gold City probably will become QRT unless someone steps up to retrieve records, etc. Several others report that their nets are continuing. This points out a continuing problem of losing chapters when the CH and/or CM become unable to continue. **All chapters are asked to plan for succession of leadership.** To aid in such planning, IT Manager, Jeff, N7YG, is setting up FTP accounts on the 10-10 server where chapters can save their data. **All CH:** watch for future communication from Jeff with the details.

3) Aloha Chapter reports they have several local radio operators looking for the last few 10-10 numbers in order to qualify for their own. Since propagation seems to be improving, point your antennas west and help them out!

4) **Oregon Trail** has suspended point collection, due to lack of interest in points, except for the "Lone Rider" mobile program and "Specials" as announced by the CH. Save your existing points records, though, in case they are reinstated if/when propagation improves.

5) Chapters below accept email upgrades as of February 28. 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](mailto:wh6s@outlook.com). Use form available from the CM.

**Bauxite** – CM K5BKT, [k5bkt@nwla.com](mailto:k5bkt@nwla.com). Bauxite and Arkansas Visitor numbers only.

**Bay Area** – CM K6RDK, [k6rdk@arri.net](mailto:k6rdk@arri.net)

**Branding Iron** – CM DL6DK, [bic-cm@voits.de](mailto:bic-cm@voits.de)

**Castle Craig** – CM N1API, [n1api@cox.net](mailto:n1api@cox.net)

**Chesapeake Bay** – CM N3TGB, [n3tgb@aol.com](mailto:n3tgb@aol.com)

**Colorado Centennial/Colorado Frontier Gang** – CM WB0CON, [wb0con@comcast.net](mailto:wb0con@comcast.net)

**Cradle of the Confederacy** – CM K4PO, [pcsalley@gmail.com](mailto:pcsalley@gmail.com)

**Down Under** – CM ZL1AFU, [zl1afu@nzart.org.nz](mailto:zl1afu@nzart.org.nz)

**Fort McHenry/Cornerstone/Yodar Kritch** – CM K3TJ, [k3tj@juno.com](mailto:k3tj@juno.com)

**Hanse** – CM DL5HAN, [dl5han@t-online.de](mailto:dl5han@t-online.de)

**Houston S.H.O.T** – CM N5MT, [n5mt@aol.com](mailto:n5mt@aol.com)

**Louisiana Pelican** – CM N5MT, [n5mt@aol.com](mailto:n5mt@aol.com)

**Major League Baseball** – CM N6OPR, [n6opr@msn.com](mailto:n6opr@msn.com)

**New Mexico Mud Ducks** – CM KM5EH, [buckml@lobo.net](mailto:buckml@lobo.net)

**North Georgia** – CM W4GKF, [10X@chazcone.com](mailto:10X@chazcone.com)

**Oregon Trail**– CH/CM K7QXG, [k7qyg2@gmail.com](mailto:k7qyg2@gmail.com)

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

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

If any chapter not listed accepts email upgrades or if the email listed has changed, please let me know so I can update the list. Thanks.

Jim Fox, KA0ZPP, PO Box 135 Mayhill NM 88339, email: [ka0zpp10ten@gmail.com](mailto:ka0zpp10ten@gmail.com)

## TEN-TEN NET GUIDE

As of June 1, 2021

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	DAY	ZSUM	ZWIN	Chapter Name	Location	Freq
SUN	0001	0100	Chesapeake Bay	Chestertown, MD	28345	WED	0100	0200	Houston SHOT	Houston, TX	28488
SUN	1300	1400	Arlington	Arlington, VA	29200	WED	1400	1500	EU DX/Branding Iron/Hanse	Bergamen, DL	28355
SUN	1630	1730	Possum Trot	Raeford, NC	28345	WED	1700	1700	Gold City	Rutherfordton, NC	28425
SUN	1700	1700	Major League Baseball	Gilbert, AZ	28380	WED	1930	1930	Route-66	Boonville, IN	28370
SUN	1900	2000	Oregon Trail	Dallas, OR	28330	THU	0001	0100	Cradle of the Confederacy	Pike Road, AL	28350
SUN	1930	1930	North Georgia	Atlanta, GA	28410	THU	0100	0200	Gateway	St. Louis, MO	28650
SUN	2030	2030	Santa Fe Trail	Galesburg, IL	28345	THU	0100	0100	Cow Town	Arlington, TX	28460
SUN	2100	2200	Possum Trot	Raeford, NC	28150	THU	0100	0200	Milwaukee	Milwaukee, WI	28365
MON	0100	0100	Arizona Desert 10-10 Net	Phoenix, AZ	28445	THU	0230	0230	Windfarms	Livermore, CA	28450
MON	0100	0200	Milwaukee	Milwaukee, WI	28365	THU	0230	0330	Up The Crick	Eugene, OR	28450
MON	0100	0100	Lonestar	Arlington, TX	28460	THU	1930	1930	Speedway	Rainer, OR	28350
MON	0130	0230	Bauxite	Benton, AR	28470	FRI	0001	0100	Fort McHenry/ Cornerstone/Yodar Kritch	Arbutus, MD	28370
MON	1730	1730	Chief Seattle	Seattle, WA	28430	FRI	0001	0100	Steamboat Plus	Shreveport, LA	28430
TUE	0001	0100	Ft McHenry/ Cornerstone/Yodar Kritch	Arbutus, MD	28370	FRI	0300	0400	Chief Seattle	Seattle, WA	28430
TUE	0100	0200	CO Centennial/ CO Frontier Gang	Lakewood, CO	28340	FRI	2230	2130	Down Under (Summer in NZ is winter in US)	Auckland, ZL	28530
TUE	0100	0200	City of Lights	St Charles, IL	28150	SAT	1510	1610	Louisiana Pelican	Baton Rouge, LA	28450
TUE	0130	0230	City of Lights	St Charles, IL	28720	SAT	1730	1730	Tango	Buenos Aires, LU	28650
TUE	0130	0230	Bauxite	Benton, AR	28470	SAT	2200	2200	Alii	Lihue, HI	28730
TUE	0200	0300	10 Bar X	El Paso, TX	28445	SAT	1730	1730	Tango	Buenos Aires, LU	28650
TUE	0300	0400	Bay Area	Hayward, CA	28475 CW	SAT	2200	2200	Alii	Lihue, HI	28730
TUE	0430	0430	Aloha	Hilo, HI	28490						
TUE	1500	1600	New Mexico Mud Ducks	Albuquerque, NM	28835						
WED	0001	0100	Castle Craig	Meriden, CT	28375						
WED	0100	0200	Cincinnati Area Ten Tuners	Milan, IN	28430						





## DX News

Mike Davidson, N5MT  
(#24949)

I hope you have been able to meet with other ham friends over the past months now that fewer virus restrictions are in place and more important, that you have gotten your COVID vaccination protection like I had in February. One of my hobbies besides ham radio is judging high school science fairs. Over the years I have sent many students to the Intel International Science Fair as I have been a judge longer than I have had my ham license. Science tells me that you should get your vaccination, so take the time to get the protection!

The Spring DX radio season has been having better propagation as we start our Summer here in the US. The Sun is providing more sunspots to increase the Solar Flux and giving us more openings on Ten than this time last year, and NO the pandemic did not affect the propagation, it should have allowed you more time on the Air with your radio. The 17 and 15-meter bands were the best DX bands the past months so you will find DX by looking, if Ten is not open. I just worked EA7D non-member from Spain on FT8 on Ten.

The 10-10 Spring Digi contest in late April was a great start for me as I was on Ten both days and logged 51 QSO on digi to come in first place high power. I had to avoid thunder storms that were full of lightning and wind so I missed making my goal of 75 Q's that I had set before the contest. But I did work New Zealand, Columbia, Fiji, Argentina and Brazil but no new member numbers. This digi contest may have been my best showing with my new vertical antenna. So, I was pleased with the certificate as I saw many emails about poor propagation. So good luck with the Open Season QSO party coming up this weekend on June 5th and hope you have better propagation on PSK31. **Do Not Forget the new Weak Signal QSO party the second weekend of July 10-11th.**

You need to stay on the radio and call CQ to see who you can talk with. When propagation is poor, use FT8 and you will find stations to work when SSB is closed. At my station in Louisiana, the QSO's on FT8 were plentiful and a lot of dups were put in the log the past three months. I saw a lot of traffic on FT8 from S. America to Europe during this period, but I could not see Europe talking back with S. America.

Another year has passed since I last heard a New 10-10 country on Ten. As a result of the pandemic, weak propagation, and a bunch of ops not traveling far to operate DX, my 10-10 news reporting has been greatly reduced. So, try to

find that rare DX that may be giving out a CQ on Ten. I recently worked a lot of DX stations on FT8 but few 10-10 members. I worked Holger ZL3IO #22401 and his daughter on FT8 in New Zealand on Ten and this makes six countries that I have worked him for 10-10 country credit over the past 30 years.

I keep emphasizing for all hams to submit your QSO logs on a regular update basis to the ARRL LoTW database. Once you get the ARRL certificate for LoTW, and using the LoTW app, you can upload your logbook anytime into the database for no charge. You must use the DXCC security rules required by the ARRL for all LoTW activity. The only cost is when you apply for an ARRL award using your LoTW contacts for DXCC or WAS. Using LoTW means no QSL card expense is required, its all electronic for you and the DX. But for a 10-10 award you can not use LoTW as there is no interface for LoTW to collect your 10-10 info!

I recently found a website that list ham call signs that are using the LoTW system. This website is updated with data from the ARRL, but it is by a DX ham this is doing a good job. There are 69,113 users in the US and 159,000 worldwide. Website is: [http://www.hb9bza.net/lotw\\_users\\_list](http://www.hb9bza.net/lotw_users_list).

Use our 10-10 website for all the award rules and if you qualify for a 10-10 award, you must fill out your 10-10 application form available on the website and send it to the 10-10 awards person as listed on the form. Remember, at the present time there is no award cost and no QSL cards are required for all of our awards, **but you must have paid your 10-10 dues.**

Most all of my contacts this past year were either on FT8 or SSB. Some members have learned to use the TX5 tab to save their 10-10 info in FT8. All you do is setup the TX5 tab to send the maximum 13 characters with the info you will send via the TX5 tab. So type into the TX5 macro: a 4 character name, a space, your five digit ten-ten number, a space and your two character state abbreviation that you will send during a FT8 QSO. If you name is longer, either use a short nickname or make two TX5 messages to transmit your info to complete the 10-10 contact. There is a FT8 help video on the 10-10 website.

The 10-10 Countries Award Manager follows most of the ARRL DXCC award rules. Plus, you must have swapped your Callsign, Name, State and 10-10 number over the air on Ten, to record that members information for ALL 10-10 award application. So, the honor system does apply for all contacts on all 10-10 awards. I keep the 10-10 DX records with my job as the Countries Award manager. As of June 2021, there still remains 22 countries that have never been worked for 10-10 country credit. The list was published in the March 10-10 News.

I promise to keep reporting DX news that I find from my sources if a DX group pops up. Use your radio to find a new Q, and a new one does not have to be on Ten. With Hurricane season starting today, we have already had the first named storm in the Atlantic, named Ana. For the past seven years in a row, there has been a storm posted before June 1st so stay safe and let's hope for fewer hurricanes to make landfall in the US this year.



**Countries Award:** There was one Countries Award application submitted this past quarter by Tom Colyard K4MM #7294 for 25 countries. Thanks to Gerry WA6POZ #21274, for helping replace the old DOS Countries Award program. A few problems were found in the DOS-to-OS conversion and they are being fixed. Thanks Gerry.

**I just found what I will call the DX'ers Handbook written by Bryce Anderson K7UA, his 3rd edition.** Download at: [www.K7UA.com](http://www.K7UA.com).

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

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

**4U United Nations.** The remote ham radio station 4U1UN #55555, in the New York UN building, must have had their Steppir antenna fixed as I see lots of QSO on Ten and 6 Meters. So, watch DXSummit for QSO reports and hope the RF noise in Manhattan does not become a problem.

**8Q The Maldives.** Mats SM6LRR #34451, was there from March 28th to April 10th using call 8Q7MS. LoTW.

**C6 Bahamas.** Hal W8HC #12502, was with friends in March using call C6AGU from Water Cay Bahamas. LoTW.

**VP5 Turks & Caicos Islands.** Eric NR4O #11513 was operating VP5/NR4O during March on CW, SSB and FT8.

**DP1 Antarctica.** Felix DL5XL #55519, is in Antarctica with the German Polar Institute. Felix can operate the club callsign DP0GVN but you must ask Felix to swap a 10-10 as the club station is not a member. There has not been any Ten activity from the club station only Sat QO-100. LoTW.

**FJ St.Barthelemy.** Phil K2LIO #7746, is on the island using call FJ/K2LIO on HF, possibly until August 5th.

**HP Panama.** Steve HP9SAM #75838, tries to operate on Ten when the band is open on Saturday morning as he tries to check-in to our local net on 28450 MHz at 1510 UTC.

**J6 St. Lucia.** Bill K9HZ #2618 and Kyle WA4PGM #50763, were in St. Lucia from March 2nd to 20th using call J68HZ with few reports on DXSummit for Ten meters.

**OZ Denmark.** Romo Island in Denmark will be used by Volker DJ8VW #69216 from May 21st to June 10th with a special callsign 5P8VW. LoTW.

**PJ2 Curacao Island.** Andreas DK5ON #54260, was on Curacao using call PJ2/DK5ON from March 6th to 23rd on all bands and modes but not on Ten. LoTW.

Vincent K4JC #72779, was on Curacao from March 1st to 9th with several friends. Call PJ2T in the SSB contest.

**PY Brazil.** John PY5JO #72714, was active on FT8 and SSB the past month on Ten so good luck. LoTW.

**VP5 Turks & Caicos Islands.** Three members were on the last week of May on the islands. John K4BAI #45389, Dennis K2SX #9023 and Johnnie KR4R #69307 on HF.

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

**FP St. Pierre & Miquelon.** Eric KV1J #31247, will be using call FP/KV1J from June 29th to July 13th. All bands and modes and FT8. LoTW.

James WB2REM #48365 and Mike W0VTT #14404, will be using call TO5T from August 8th to 16th on all bands and modes and FT8. Club log or QSL to WB2REM.

**LX Luxembourg.** Andy LX1DA #50458, will be using the special callsign LX40DA from September 1st to December 31st. I saw lots of contacts for Andy on other bands when he operated earlier this year in LX.

P4 Aruba. John W2GD/P44W #14109 will be active again this weekend for the CQ WPX CW contest.

**YN Nicaragua.** Rob DM4AO #23450, will be on the air for CQ WW CW on November 27-28th as YN5AO.

#### MISCELLANEOUS ITEMS & NOTES:

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

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

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

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

**Propagation: I expect the solar flux to range from 68-89 during the Summer which means the flux is rising for the early start of cycle 25.** The 2021 Summer Solstice is on Sunday June 20th which is also Father's Day. Summer starts in the northern hemisphere and the Sun is high above the equator giving the US its longest daylight and shortest nights. In the southern hemisphere, winter starts on this day. Cycle 25, started on November 18, 2019 as can be seen on a good graph at [www.solar.info/solar/](http://www.solar.info/solar/). The Sun was real active in Nov-December 2020 but now has quieted down with an expected rising flux. A solar flux maximum of 125 has been forecast by NOAA for the winter of 2024. Sunspots are counted by looking at the Sun, but the Solar flux is measured by radio at 2.8 GHz.

The 2021 monthly maximum solar flux was: Jan 79, Feb 79, March 79, April 85, and May x81.

The 2021 monthly minimum flux was: Jan 70, Feb 67, March 72, April 71, and May 70.

**On June 1st, the solar flux was 75, the A index was 6 and K index was 1.**

There were several sunspot regions on the Sun the past week. An increase of sunspots has helped produced more solar flux the past three weeks. The USAF solar flux forecast for June 1st to July 14th is from 72 to a high of 82 with only a

ten-point fluctuation.

**My Prediction:** Over the next three months, the best conditions on Ten could be: June 16-23rd, July 13-17th, August 9-13th and September 5-9th. For the USA, expect a 25% chance of DX to Europe or Asia with a 75% chance of DX to South America or to the Pacific. Listen for the CW beacons from 28.175-28.300 to see if Ten Meters is open and use WSJT-X FT8 for all weak/low propagation QSOs.

**There were no new 10-10 DX members joining from March to May 2021.** This DX News edition is my number 124th of DXing reports.

Thanks to the Daily DX by Bernie W3UR #25731 and the Ohio/Penn DX Bulletins. DX Info to: Mike Davidson, 26274 Whispering Pines Ave, Denham Springs LA 70726 USA and Email: N5MT@aol.com .

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

## 10 Meter Beacons

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

I would appreciate a message from anyone with thoughts of activating a beacon. [wi5v.be@gmail.com](mailto:wi5v.be@gmail.com)

73 Dennis Stice WI5V #35806

IARU Region 2 HF Beacon Coordinator

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

## QSL Bureau News

Things at the QSL Bureau have been very quiet. No cards are currently in the bureau, and none have been processed.

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, WI9X #49635  
173 West Pitman Ave.  
Battle Creek, MI 49017

## ANTENNA SAFETY NOTES

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

**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.

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

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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 at 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.

**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.”

**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.





# Net Report

Bob Farrow, N6OPR  
(#45715)

## Net Report for 1st Quarter 2021

### Monday Nets

-----28.360 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
4-Jan	10	0	4-Jan	6	0
11-Jan	16	4	11-Jan	5	1
18-Jan	9	0	18-Jan	4	0
25-Jan	11	0	25-Jan	4	0
1-Feb	8	0	1-Feb	4	0
8-Feb	9	0	8-Feb	4	0
15-Feb	9	0	15-Feb	4	0
22-Feb	13	0	22-Feb	5	2
1-Mar	13	0	1-Mar	4	0
8-Mar	12	0	8-Mar	3	0
15-Mar	10	0	15-Mar	3	0
22-Mar	10	1	22-Mar	4	0
29-Mar	8	0	29-Mar	3	0

### Tuesday Nets

-----28.360 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
5-Jan	37	12	5-Jan	XXX	0
12-Jan	11	0	12-Jan	XXX	0
19-Jan	16	2	19-Jan	XXX	0
26-Jan	13	0	26-Jan	XXX	0
2-Feb	12	0	2-Feb	XXX	0
9-Feb	13	2	9-Feb	XXX	0
16-Feb	9	0	16-Feb	XXX	0
23-Feb	14	0	23-Feb	XXX	0
2-Mar	13	1	2-Mar	XXX	0
9-Mar	13	0	9-Mar	XXX	0
16-Mar	9	0	16-Mar	XXX	0
23-Mar	11	0	23-Mar	XXX	0
30-Mar	11	0	30-Mar	XXX	0

### Wednesday Nets

-----28.360 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
6-Jan	24	9	6-Jan	XXX	2
13-Jan	12	0	13-Jan	XXX	0
20-Jan	9	0	20-Jan	XXX	0
27-Jan	13	2	27-Jan	3	0
3-Feb	7	1	3-Feb	6	2
10-Feb	11	0	10-Feb	3	0
17-Feb	12	0	17-Feb	4	0
24-Feb	11	0	24-Feb	5	2
3-Mar	10	1	3-Mar	XXX	0
10-Mar	8	0	10-Mar	XXX	0
17-Mar	11	0	17-Mar	XXX	0
24-Mar	9	0	24-Mar	XXX	0
31-Mar	11	0	31-Mar	XXX	0

### Thursday Nets

-----28.360 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
7-Jan	12	0	7-Jan	2	0
14-Jan	6	0	14-Jan	4	1
21-Jan	11	0	21-Jan	3	1
28-Jan	11	1	28-Jan	3	0
4-Feb	9	0	4-Feb	3	0
11-Feb	12	0	11-Feb	4	1
18-Feb	13	0	18-Feb	3	0
25-Feb	12	1	25-Feb	3	1
4-Mar	15	1	4-Mar	3	1
11-Mar	12	0	11-Mar	4	2
18-Mar	11	1	18-Mar	4	2
25-Mar	10	0	25-Mar	2	0
1-Apr	0	0	1-Apr	0	0

### Friday Nets

-----28.360 MHz-----			-----28.800 MHz-----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
1-Jan	4	0	1-Jan	13	0
8-Jan	4	0	8-Jan	10	0
15-Jan	4	0	15-Jan	11	0
22-Jan	4	0	22-Jan	10	0
29-Jan	4	0	29-Jan	11	0
5-Feb	4	0	5-Feb	7	0
12-Feb	4	0	12-Feb	9	0
19-Feb	4	0	19-Feb	7	0
26-Feb	4	0	26-Feb	11	1
5-Mar	4	0	5-Mar	9	0
12-Mar	3	1	12-Mar	11	0
19-Mar	XX	XX	19-Mar	8	0
26-Mar	XX	XX	26-Mar	9	0

## Saturday Nets

-----28.360 MHz -----			-----28.800 MHz -----		
DATE	TOTAL	NO 10#	DATE	TOTAL	NO 10#
2-Jan	7	1	2-Jan	XXX	0
9-Jan	8	0	9-Jan	XXX	0
16-Jan	8	0	16-Jan	XXX	0
23-Jan	7	0	23-Jan	XXX	0
30-Jan	4	0	30-Jan	XXX	0
6-Feb	6	1	6-Feb	XXX	0
13-Feb	10	0	13-Feb	XXX	0
20-Feb	8	0	20-Feb	XXX	0
27-Feb	7	2	27-Feb	XXX	0
6-Mar	5	0	6-Mar	XXX	0
13-Mar	9	0	13-Mar	XXX	0
20-Mar	4	0	20-Mar	XXX	0
27-Mar	2	0	27-Mar	XXX	0

XX No Net Called  
 XXX No Report Received

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

## 10-10 NET CONTROL STATIONS

## ALL NETS BEGIN AT 1800Z

Mon (28.380)	Open. N6OPR	#45715	AZ
Mon (28.800)	Doc, WB6OJB	#70675	CA
Tues (28.380)	Ray, K7CWS	#50288	AZ
Tues (28.800)	Mike, KF4WKY	#70191	NC
Wed (28.380)	Bob, N6OPR	#45715	AZ
Wed (28.800)	Open, WB6OJB	#70675	CA
Thu (28.380)	Bob, N6OPR	#45715	AZ
Thu (28.800)	Robert, KQ4PK	#63201	NC
Fri (28.380)	Open. Contact Bob N6OPR for info		
Fri (28.800)	Tim, K1IEB	#74965	AZ
Sat (28.380)	Mike, KF4WKY	#70191	NC
Sat (28.800)	Open. Contact Bob N6OPR for info		
Alternate	Open. Contact Bob N6OPR for info		
Sunday	<b>NEVER ON SUNDAY</b>		

Frances L Chapman (Louise) N6ELK #36645 became a Silent Key (SK) in March. She tested for her ham license at the FCC office on Long Beach Blvd. She was the only female candidate there. After becoming a 10-10 member, Louise volunteered to be a net control station (NCS) operator. She eventually was assigned NCS for the Wednesday 10-10 daily net on 28.800 MHz. She had called that net for 35-plus years. The longest of anyone. She was a member of the Long Beach Amateur Radio Club. When Technician class hams were given 10-meter privileges, she started the 10-10 net on 28.380 MHz. It became a very successful net that resulted in growing the 10-10 membership ranks. She has also spent the last 27 years as a Volunteer Examiner. Helping people join the amateur radio hobby as well as helping existing hams advance to the next higher level within the hobby. She has received honors from the 10-10 Net president (Mel) and the 10-10 International net. She will be missed.  
 R.I.P. My friend  
 Bob N6OPR 45715

## FT8 MISSES

This Sunday, May 31, I made an FT8 mode QSO on 10 meters with 75 folks. Of those 75, 27 were 10-10 members. Unfortunately, they did not pass along their 10-10 data.

Please check out the video on [www.ten-ten.org](http://www.ten-ten.org) to learn how to send Name, State and 10-10 number using the TX5 message. Look for "FT8 HOWTO Video" under the "Breaking News" title. Or you can get to the same video by clicking on the menu item "Resources" just under the Ten-Ten banner. There, in the drop-down menu you should click on "FT8 Video".

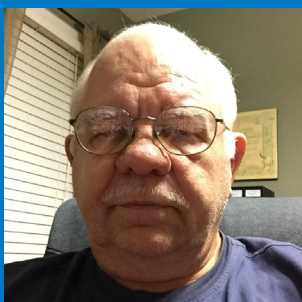
Hope to work you on 28.074 MHz

73 Charlie, WA2HMM, 40510

## ARTICLES

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





# QSO Parties

Dan Morris, KZ3T  
(#41015)

## 2021 SPRING DIGITAL QSO PARTY

**Apr 24 - 25**

### TOP TEN

CALL	10-10#	CTX W	CTX WO	TOTAL
1. N5MT	24949	6	45	57
2. ZL3TE	53431	5	44	54
3. N4ZCG	56067	13	11	37
4. WA2HMM	40510	5	17	27
5. KJ4RV	37776	11	0	22
5. AK4YS	75328	11	0	22
6. N7WLC	63782	0	21	21
6. KM4ODS	77504	10	1	21
7. N3GTY	50585	9	1	19
8. KF4JDR	77817	4	0	8
9. KD5DE	33513	3	0	6
9. KM5FF	50356	3	0	6
10. W2VTV	71275	2	1	5

### CALL AREA ORDER

#### CALL AREA 1

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	1	1	3

#### CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	5	17	27
W2VTV	71275	2	1	5
K2CWM	9712	0	3	3

#### CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	13	11	37
KJ4RV	37776	11	0	22
AK4YS	75328	11	0	22
KM4ODS	77504	10	1	21
N3GTY	50585	9	1	19
KF4JDR	77817	4	0	8

#### CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
N5MT	24949	6	45	57
KD5DE	33513	3	0	6
KM5FF	50356	3	0	6
KM5EH	71103	1	0	2
K5JAD	77778	1	0	2

#### CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
N7WLC	63782	0	21	21

#### CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
AJ7B	7675	0	4	4

#### QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
KJ4RV	37776	11	0	22
AK4YS	75328	11	0	22
N3GTY	50585	9	1	19



**COUNTRY ENTRIES****NEW ZEALAND**

CALL	10-10#	CTX W	CTX WO	TOTAL
ZL3TE	53431	5	44	54

**LOW POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
ZL3TE	53431	5	44	54
N4ZCG	56067	13	11	37
WA2HMM	40510	5	17	27
N7WLC	63782	0	21	21
KM4ODS	77504	10	1	21
KF4JDR	77817	4	0	8
KD5DE	33513	3	0	6
KM5FF	50356	3	0	6
W2VTV	71275	2	1	5
AJ7B	7675	0	4	4
K2CWM	9712	0	3	3
N1API	25468	1	1	3
KM5EH	71103	1	0	2
K5JAD	77778	1	0	2

**HIGH POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
N5MT	24949	6	45	57

**CHAPTER ENTRIES**

CHAPTER	LOGS	PTS
POSSUM TROT	8	169
LOUISIANA PELICAN	1	57
STEAMBOAT	2	8
NM MUD DUCKS	1	6
CASTLE CRAIG	1	3

**CLUB ENTRIES**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	10	1	21	KM4ODS
NZ4FF	77686	9	1	19	N3GTY

**CHECK LOGS**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
KJ7AKV	0	2	0	4	0

**2021 SPRING CW QSO PARTY****May 1 - 2****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. W5SUM	2019	32	20	84
2. N4ZCG	56067	25	14	64
3. KD5DE	33513	26	8	60
4. K4FET	77603	18	8	44
5. KJ4RV	37776	19	5	43
6. KM4ODS	77504	17	4	38
7. N3GTY	50585	16	3	35
8. AK4YS	75328	13	0	26
9. N6GP	21149	9	4	22
9. NA9A	31121	11	0	22
10. N4ERM	34524	7	3	17

**CALL AREA ORDER****CALL AREA 3**

CALL	10-10#	CTX W	CTX WO	TOTAL
WA3JXW	4377	1	0	2

**CALL AREA 4**

CALL	10-10#	CTX W	CTX WO	TOTAL
N4ZCG	56067	25	14	64
K4FET	77603	18	8	44
KJ4RV	37776	19	5	43

**CALL AREA 4 (CONT.)**

CALL	10-10#	CTX W	CTX WO	TOTAL
KM4ODS	77504	17	4	38
N3GTY	50585	16	3	35
AK4YS	75328	13	0	26
N4ERM	34524	7	3	17
N2OYV	64257	8	0	16
KI4W	62657	7	1	15
KZ3T	41015	6	0	12
KK4E	77748	2	0	4

**CALL AREA 5**

CALL	10-10#	CTX W	CTX WO	TOTAL
W5SUM	2019	32	20	84
KD5DE	33513	26	8	60
K5JAD	77778	2	0	4

**CALL AREA 6**

CALL	10-10#	CTX W	CTX WO	TOTAL
N6GP	21149	9	4	22

**CALL AREA 7**

CALL	10-10#	CTX W	CTX WO	TOTAL
K7JF	6334	3	3	9

**CALL AREA 9**

CALL	10-10#	CTX W	CTX WO	TOTAL
NA9A	31121	11	0	22
KC9EOQ	74609	5	0	10
KC9YL	76733	1	0	2

**QRP**

CALL	10-10#	CTX W	CTX WO	TOTAL
KJ4RV	37776	19	5	43
AK4YS	75328	13	0	26

**LOW POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
W5SUM	2019	32	20	84
N4ZCG	56067	25	14	64
KD5DE	33513	26	8	60
K4FET	77603	18	8	44
KM4ODS	77504	17	4	38
N3GTY	50585	16	3	35
N6GP	21149	9	4	22
N4ERM	34524	7	3	17
N2OYV	64257	8	0	16
KI4W	62657	7	1	15
KZ3T	41015	6	0	12
KC9EOQ	74609	5	0	10
K7JF	6334	3	3	9
KK4E	77748	2	0	4
K5JAD	77778	2	0	4
WA3JXW	4377	1	0	2
KC9YL	76733	1	0	2

**HIGH POWER**

CALL	10-10#	CTX W	CTX WO	TOTAL
NA9A	31121	11	0	22

**CHAPTER ENTRIES**

CHAPTER	LOGS	PTS
POSSUM TROT	12	383
STEAMBOAT	3	148
CITY OF LIGHTS	2	32

**CLUB ENTRIES**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
K4MN	24874	17	4	38	KM4ODS
NZ4FF	77686	16	3	35	N3GTY

**CHECK LOGS**

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
NC6Q	75839	10	1	21	0
K7DWI	40849	4	1	9	0
N3GTG	0	2	0	4	0
N6HCN	0	1	0	2	0
WA3AAN	61973	1	0	2	0
K4VBM	77645	1	0	2	0
K5WX	1163	0	1	1	0

**2021 OPEN SEASON QSO PARTY****JUNE 5 - 6****TOP TEN**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
1. N3GTY	4	12	10	12	106
2. KD5ILA	2	13	9	7	83
3. AK4YS	2	12	4	9	74
4. N5MT	1	5	10	8	73
5. KZ3T	1	11	9	5	70
5. W4KRN	2	19	6	3	70
6. K2CWM	2	13	8	2	60
7. KD5DE	4	6	8	4	56
8. WA2HMM	2	12	4	4	54
9. AA5BE	5	18	0	0	41
9. KG5OIB	3	10	6	0	41
10. ND4G	0	2	6	4	38

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

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
W0RTV	1	8	2	3	35

**CALL AREA 2**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
K2CWM	2	13	8	2	60
WA2HMM	2	12	4	4	54
W2VTV	5	5	0	0	15

**CALL AREA 4**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
N3GTY	4	12	10	12	106
AK4YS	2	12	4	9	74
KZ3T	1	11	9	5	70
W4KRN	2	19	6	3	70
ND4G	0	2	6	4	38
W8IM	2	4	4	0	22
KA5VZG	0	0	1	0	3

**CALL AREA 5**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
KD5ILA	2	13	9	7	83
N5MT	1	5	10	8	73
KD5DE	4	6	8	4	56
AA5BE	5	18	0	0	41
KG5OIB	3	10	6	0	41
KM5FF	1	4	0	0	9

**QRP**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
AK4YS	2	12	4	9	74
W8IM	2	4	4	0	22

**COUNTRY ENTRIES****NORWAY**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
LA7VK	6	0	1	0	9



**LOW POWER**

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
N3GTY	4	12	10	12	106
KD5ILA	2	13	9	7	83
N5MT	1	5	10	8	73
KZ3T	1	11	9	5	70
W4KRN	2	19	6	3	70
K2CWM	2	13	8	2	60
KD5DE	4	6	8	4	56
AA5BE	5	18	0	0	41
KG5OIB	3	10	6	0	41
W0RTV	1	8	2	3	35
W2VTV	5	5	0	0	15
KM5FF	1	4	0	0	9
KA5VZG	0	0	1	0	3

**HIGH POWER**

Call	W/O #	W/1 #	W/2 #	W/3 #	Total
WA2HMM	2	12	4	4	54
ND4G	0	2	6	4	38
LA7VK	6	0	1	0	9

**CLUB ENTRIES**

Call	W/O #	W/1 #	W/2 #	W/3 #	Total	OPS
NZ4FF	4	12	10	12	106	N3GTY
NM5H	1	5	10	8	73	N5MT

**2021 Ten-Ten QSO Party Schedule**

Event	Dates	Postmark
Weak Signal	Jul 10-11	July 19
Summer Phone	Aug. 7-8	Aug. 16
Sprint	Oct. 10	Oct 18
Fall CW	Oct. 16-17	Oct. 25
Fall Digital	Nov. 13-14	Nov. 22

## 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 May, the Foundation Board voted to guarantee the funding for three \$2000 scholarships to be awarded in 2022. The Foundation was created in 2001 and is a qualified 501(c)(3) tax exempt organization and contributions are tax deductible. Why not consider a donation as a Chapter or an individual in memory of a fellow ham or loved one. If you have an employer matching program, please let us know. This quarter an employer match was received from Charles Thompson, KE6DRN, #68855. If you haven't donated before, we want you to know that all donations are appreciated and they do add up. At the time you make a donation to your favorite charity, please consider a donation to the 10-10 Scholarship Foundation.

If you make a donation of \$25 or more, you are eligible to receive one of the historic 10-10 pins. More and more members have told me not to send a pin and want the maximum amount of their donation to go to the students. If you have made a qualifying donation and would like a pin, please contact me at wa2suh@aol.com. To pay by credit card see payment information on our website or send your check to me or the Data Manager. Our addresses can be found on Page 28.

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

### Platinum (\$1000 or more)

KE6DRN\*..... Charles Thompson 68855

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

None

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

WB6OJB..... Arnold Kalan 70675  
AD5IF ..... John McCrevey 73372

### Bronze (Up to \$99)

WA0CTZ..... David Michael 01789  
WR9E ..... Fred Knoth 50608  
KB9RTP..... Kayla Holliss 70433  
KC2CCZ..... Dennis Skea 70547  
W4EAF ..... Nick Adams 71972

## Bronze (Up to \$99) (Cont.)

KD2NOM .....	Mark Steele	77596
K5PLH .....	Phyllis Martin	77878

\*Includes employer match

### 10-10 SCHOLARSHIP APPLICANT INFORMATION

Each year the 10-10 International Net, through our non-profit corporation, the 10-10 Scholarship Foundation, funds three \$2000 scholarships, which are administered on our behalf by the Foundation for Amateur Radio (FAR). It is suggested that every 10-10 member encourage qualified college-bound amateur radio operators to take advantage of this opportunity. Over the past 33 years, 10-10 has funded 127 scholarships valued at \$165,000.

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**

## The Rotatable Dipole Revisited

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.

Hill-topping is a popular pastime when 10 meters is open. We grab a small rig, put a portable antenna in the truck or pick-up bed, and head for the highest pretty hill we can find for an afternoon of casual QSOs and sight-seeing. Where hills are scarce, an open flat area will do, either on the plains or by a seashore. We can embellish the scenario with QSO party challenges, QRP trials, and other activities. Whatever the exact plan, the goal is enjoyment.

Small rigs for 10 meters are plentiful. However, our antenna needs are usually not off-the-shelf items. We can press a mobile antenna into use but sometimes we want something with a bit more performance. Since we have several hours set aside for the trip, a few minutes assembly and disassembly is not much to ask in exchange for a better antenna. However, storage space during transport should be minimal.

With a little home construction using readily available materials, we can have a full size dipole that stores in a package about 5' long by a few inches in

diameter, including some mast sections to get the antenna about 20' in the air. The elements disassemble and store inside a PVC tube. The tube bundles easily with 5' TV mast sections using luggage straps or dog collars.

### THE MATERIALS

Let's begin with the materials, all of which are common. However, some are easier to obtain than others.

**1. Rod Elements:** Because I had access to some aluminum rod, these formed the initial set of dipole elements. Each element is broken roughly in half on each side of center, with a maximum length per unit of 4.5 feet. Hence, all will store inside a 5' length of tubing.

The final version of the rod element used a 5/16" diameter inner section and a 3/16" diameter outer section. I experimented with 1/4" diameter inner sections and found them too weak where threading was added. However, 5/16" diameter rod is harder to find, since it is not a normally stocked value at either hardware depots or ham vendors. My source was a ground-plane set of radials from a defunct CB antenna. With stock 3/16" aluminum rods as outer sections, full size elements are easily made.

The rods will require threading. Thread both ends of the inner rod. One end uses 5/16" stainless steel nuts and washers. The other end is a link that uses a short (1.5") section of 1/2" square aluminum stock cut from a scrap plate. A tap and die set is essential for making these elements, since the link piece requires 5/16 X 18 tapping at one end and #10 X 24 tapping on the other. If you have access to the stock and can do the work (or have friends who can assist), the rod elements are the most compact for storage.

**2. Tube Elements:** Aluminum tubing is available from ham vendors in 1/2" and 3/8" diameter 6061-T6 or 6063-T832. These elements nest firmly, so the inside surface of the 1/2" tubes must be smooth. The cost of enough tubing to construct a dipole is remarkable small.

The larger elements cut neatly with a pipe cutter, which I prefer to a hack saw to minimize deformation of the tube. All element junctions are made with #8 stainless steel nuts and bolts through pre-drilled and thoroughly deburred holes. I tend to avoid washers, since they tend to get lost in the hilltop grass. Although permanently installed antenna elements deserve more durable fastening for both mechanical and electrical purposes, portable antennas require quick assembly and disassembly with no deformation that will prevent storing the smaller tubing inside the larger – and both inside a PVC tube.

I also have some scrap TV antenna elements of similar materials, but I rejected them for this project. TV elements are often seamed and only approximately round, making storage a problem. They are also weak for 10-meter use. Finally, I wanted to see what a thoroughly reproducible antenna might look like.

3. **PVC:** For this project, 1 1/4" nominal schedule 40 PVC is the main support material. In temporary portable use, none of the concerns about UV susceptibility trouble the project, and the RF characteristics are fully adequate to all phases of the project. 1 1/4" nominal schedule 40 PVC has dimensions closer to 1 11/16" outside diameter and 1 3/8" inside diameter. The inside diameter is just big enough to carry up to four 1/2" diameter aluminum tubes inside, with the 3/8" diameter tubes inside those. Schedule 40 PVC is fairly hefty, but a 5' tube – for storage of the dipole – is reasonably manageable. In addition to the 5' tube sections, the project uses end caps wherever there is an open end. The caps perform two functions: they close the tubing for storage and they prevent tubing deformation under the continued weight of the elements. The caps are friction-fitted only for regular removal and replacement.

The only other Schedule 40 1 1/4" fittings needed are threaded junctions. These junctions permit the dipole hub assembly to swage nicely over a standard 1 1/4" TV mast. Although some of the grey electrical conduit PVC materials are suitable substitutes for the Schedule 40 plumbing materials, the threaded connectors are not. They have thinner walls and a larger inside diameter that lets TV masting slide through.

4. **Miscellaneous Materials:** The antennas also require a number of common items, including male and female coax connectors, along with some coaxial cables. As mounting plates for the female connectors (1-hole SO-239s), I used a scrap length of 1" by 1" by 1/16" thick aluminum L-stock. I punched the 5/8" mounting holes for each needed bracket and then cut off a 1" wide section for final edge smoothing and mounting hole drilling. Two sets of #6 and #8 stainless steel nuts, bolts, and lock washers mount the bracket to the tube, with the coax connector mounted last.

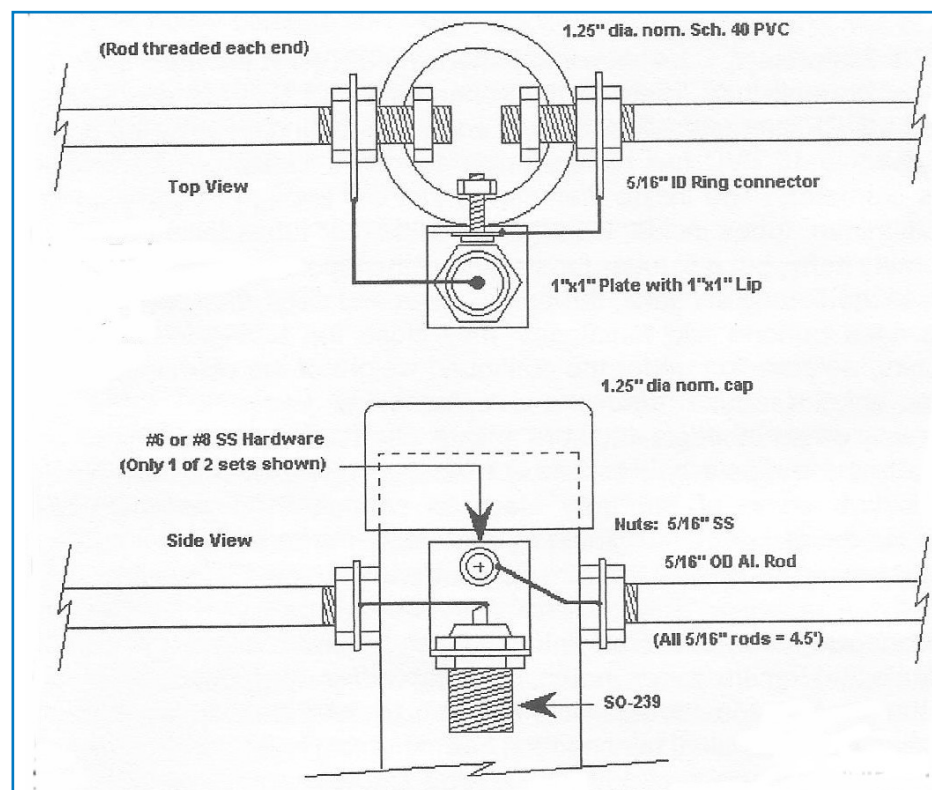
Note that I have minimized the variety of hardware necessary for assembly. The tubing version uses #8 stainless steel throughout so that a single screwdriver and a 11/32" or 3/8" nut driver (depending on the specific hardware used) can be part of the dedicated portable tool kit. The rod version requires 5/16" nuts and the link pieces both of which require 1/2" wrenches. The only other tool in the kit is a bottle brush to clean the ends of the tubes for each use. The tools and a few supplies fit in a short scrap PVC tube with end caps.

5. **Mast:** For a 20' target antenna height, PVC is both heavy and a bit wobbly. Therefore, I have four 5' sections of TV mast. Each section locks with a tab in the next lower one. Together, they form a satisfactory hill-topping mast with the antenna on top. A variety of bracing and guying schemes can be used for temporary stability. When the wind is sufficient to threaten the antenna installation, it is usually time to go home anyway.

These notes on materials appear here at the beginning so that as you look at the simple antenna, you can be planning substitutes that you prefer – or have – or can obtain.

## A DIPOLE IN A TUBE

Since the dipole can use either rods or tubing, let's start with the dipole composed of aluminum rod elements that store in a PVC tube. Figure 1 shows the details of the element mounting to a short (1') section of PVC. The threaded 5/16" rods go through the sides of the tube and are locked in place with inner and outer nuts. A second set of outer nuts clamps the O-ring connectors from the coax connector, mounted on its plate and secured to the PVC hub. Leave room for the cap to fit over the end, but do not place the rod holes so far down



**Figure 1. 5/16" Rod Element Junction Detail**

the hub that you can not start the nut with your fingers.

If you use rods, as in this example, the overall length should be about 7.0'. Allow a bit extra for trimming to perfection. For a tubing version using 4.5' inner sections of 1/2" diameter aluminum and 3/8" diameter outer sections, the overall length should be about 16.78'. Leave extra for tubing overlap, since the 3/8" diameter tube slides inside the large size.

Figure 2 shows the drilled and tapped link piece. When tapping this stock, be sure to follow the recommended guidelines for the holes to drill before using the



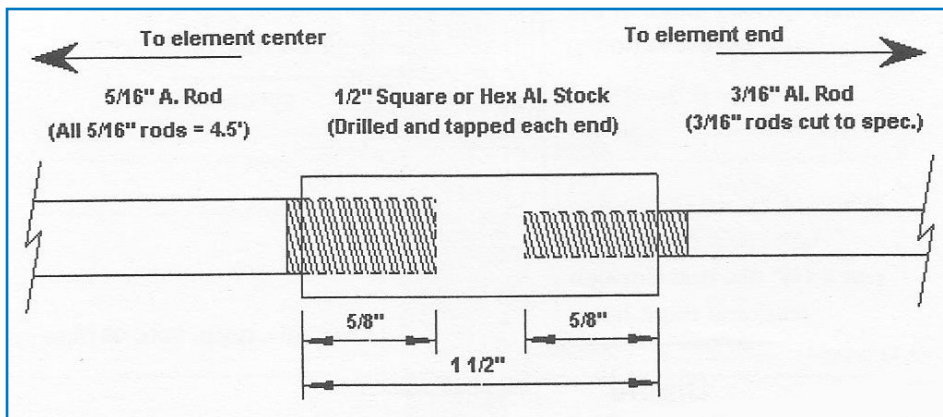


Figure 2. Rod Junction Detail

tap. An undersized hole may snap the tap, while oversized hole will not have secure threads. If you have not used a tap and die set before, it makes a good addition to the shop. Just go slow, follow recommendations, and add a drop of oil to the work every now and then. Afterwards, clean the work thoroughly to remove the lubricating oil.

The final assembly of the dipole requires a cemented Schedule 40 female threaded coupling at the bottom of the hub section. A male coupling cemented to another section of tubing, shown as a short piece in Figure 3. The male section inside diameter is small enough to fit over the reduced diameter at the end of the TV mast but swage firmly on the enlarged part of the mast.

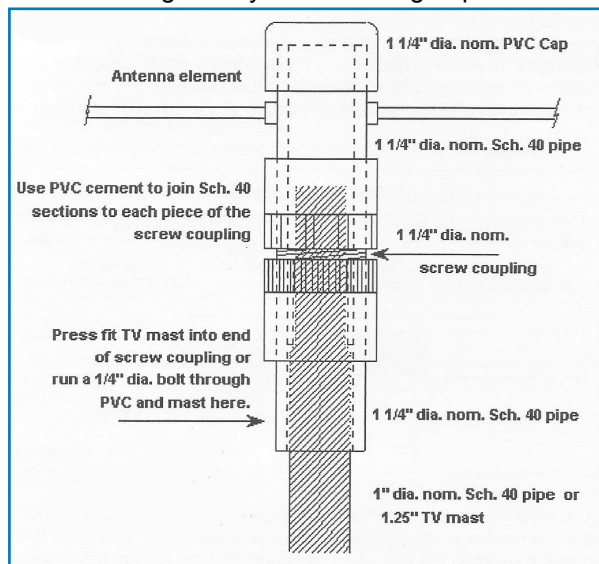


Figure 3. Dipole Element Junction-To-Mast Assembly

You have a choice here. You can add a smooth PVC coupling cemented to a longer section of tubing, with a cap (cemented or friction fit) to the far end. The coupling will then friction fit the short tube in Figure 3 to form a storage tube for the antenna elements. Alternatively, you can make the tube section from the male coupling downward from one piece of PVC with a friction-fit cap. When in use as an antenna, the entire tube up to the male connector fits over the TV mast.

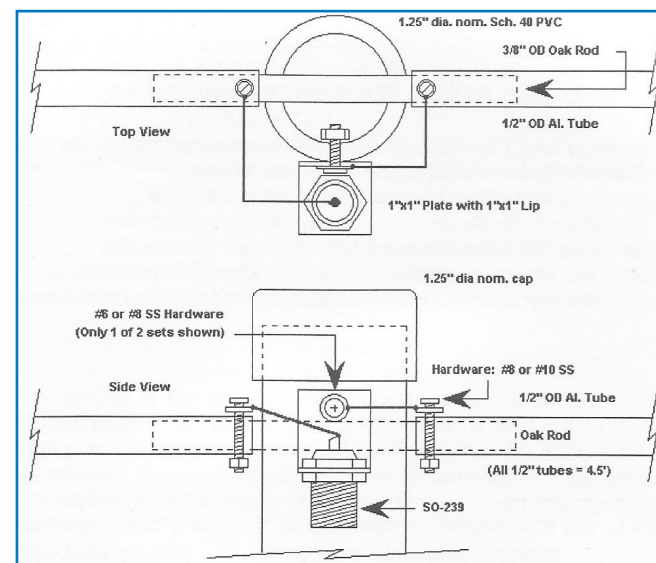


Figure 4. 1/2" Tube Element Junction Detail

The dipole requires about 10 minutes to set up and a similar period to disassemble and store. Everything fits inside the hub and storage tube, although the SO-239 remains attached to the outside of the hub. An old white sock covers the connector and bracket during storage and transport.

The tube version has a slightly broader SWR curve due to the fatter elements, but both versions of the antenna will cover well over the first MHz of 10 meters with under 2:1 SWR to a 50-ohm feedline, even though the resonant feedpoint impedance with the antenna at a 20' height is about 65-ohms resistive. Dipole azimuth patterns are too common to need repetition here.

Tuning up the antenna calls for setting the element lengths slightly long. For the rod version, use longer outer element sections. For the tube version, with no holes drilled in the inner tubing, set the 3/8" section long. Using a temporary set-up in the open that permits raising and lowering the antenna easily, simply trim the outer rod or slide in the 3/8" tubing until the SWR is lowest at your desired center frequency. Once the outer rod length is correct, smooth the edges of the trimmed end. For the 3/8" tubing, mark and drill the holes that align



with those in the ½" tubing. See Figure 3 for the details of the element-to-hub construction.

We have already examined how to mount rod elements. Tube elements require a slightly different technique, as show in Figure 4. The boom holes are 3/8" diameter. Through them, run a 2' (or longer) length of 3/8" insulated rod. Fiberglass rod is ideal, but an oak rod from the hardware depot will also work if it never gets wet.

The dipole is the most flexible of the antennas in my collection. One 8-year-old version (written up for *10-10 News before An-Ten-ten-nas* was born) has traveled the Southeast on loan. The antenna has been mounted at every angle, including horizontal, from the balconies of upper-story vacation condos. RG-8X or RG-58 are suitable for short (20') feedline runs. The addition of a 1:1 "choke-balun" (coiled coax or W2DU design) is never out of order. If surroundings create a slightly high SWR, and the rig has a built-in tuner, by all means use it. Losses will be slight.

Minor element drooping has no effect on performance. (I have modeled the element droop and differences show up only in the second decimal place of any performance figure.) I have avoided structural materials that are only marginally adequate. Aluminum rods may be the most difficult item to find in the 5/16" diameter. Everything else is available from ham vendors or from hardware depots.

For further data on the dipole in a tube – and a 2-element hilltopping Yagi that uses the same element storage system – see *The ARRL Antenna Compendium*, vol. 6 pp. 1-9.

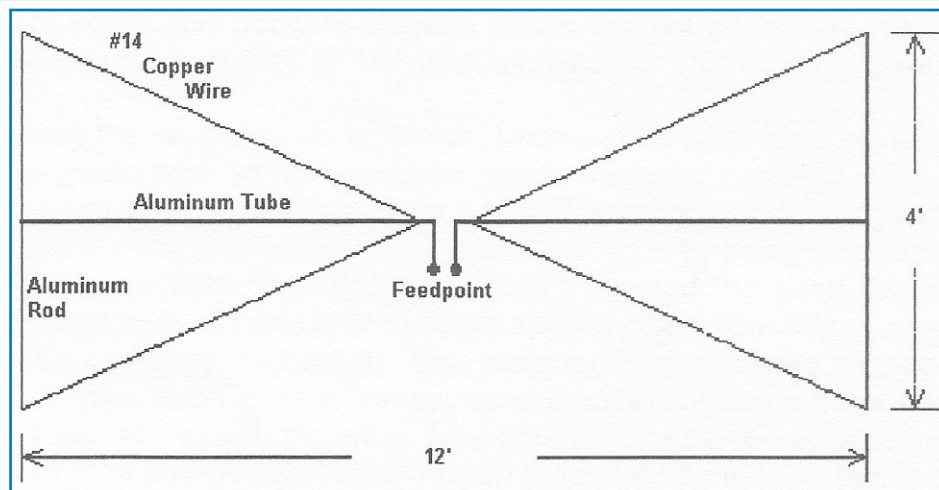
## FANS AND BOW TIES

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.

Can you use a simple antenna that has an SWR of less than 1.5:1 all the way from 28.0 MHz up to 29.7 MHz? Then you need something stylish in the way of a fan or a bow tie.

Fanning the ends of a dipole or spreading them into a bow about the middle of each side of the element is an old trick for increasing the SWR bandwidth of a dipole. The fatter the element, the broader the bandwidth of the antenna without any significant loss of performance. Ten-meter fans have been around a long time, but folks have almost forgotten them. Let's restore the memory. Remember that there is a good bit of activity at the upper end of 10, what with satellites, repeaters, HF packet and the like. An antenna that will let you work both the repeaters and the CW end of the band is worth remembering.

Figure 1 captures the essence and the dimensions of a fan dipole for 10 meters. It is a resonant dipole for 10 with a feedpoint impedance of just about



**Figure 1. Fan Dipole**

50 ohms resistive at resonance (about 28.75 MHz). A fan can be built with or without the center bar across the middle. However, if the middle bar is removed, the resonant point actually goes down in frequency to about 28.5 MHz with the dimensions given. So some shortening of the structure is in order.

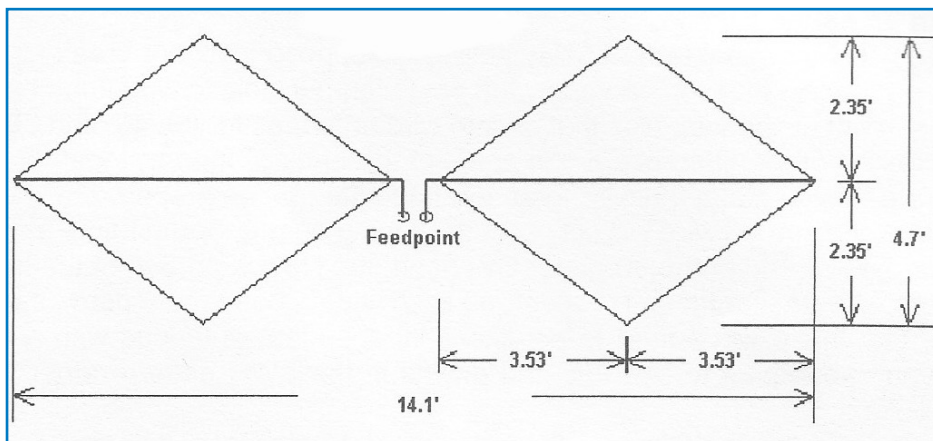
The bandwidth of the antenna increases almost linearly as the vertical dimension is increased. Four feet is a good compromise between performance and ease of building the antenna. At this size, the gain is about the same as a wire or tube dipole having a narrower bandwidth. With the right construction, the antenna will slip the wind easily and be a very long-lasting antenna. It may even look odd enough to fool your neighbors into thinking it is not a ham antenna.

Building the fan begins with a center plate: plywood with a coating of the epoxy used for fiberglass repairs works fine. Make the horizontal element 0.75" diameter aluminum from the hardware store. While you are there, pick up an 8' section of aluminum rod or tubing about 0.375" (3/8") diameter and cut it in two. These are the end verticals. You can drill a 3/8" hold in the end of the tube or use some other clamping system. I just slid the rod into the hole and locked its position with two tiny hose clamps, one above and one below the tube. A pair of bolts, with nuts on either side of the tube wall, press on the rod for electrical contact. Be sure to use lock washers on the bolts for a good bite into the aluminum tube.

#14 stranded wire runs from the rod ends to the center of the dipole. Another set of hose clamps locks the wire in place at each end. Mount the plate on a mast, turn it by motor or hand, and the job is complete.

Be sure to use stainless steel hose clamps and hardware. A little conductive "butter" helps preserve contacts, especially where the metals are dissimilar.

An alternative to the fan dipole is the bow tie. Instead of spreading the antenna at the ends, we spread it in the middle of each half of the dipole. For the same bandwidth, we must have a longer antenna, spread a bit wider at maximum. However, the ends come back to the center tube, which makes construction a bit simple for some folks. The same principles apply. However, notice that no vertical element is showing in the diagram. Use something non-conductive for this spreader. A length of Schedule 315 PVC (thinner wall) may do the job. The wire tension will keep the tubing from bowing, and a simple set of brackets will hold it to the center tube.



**Figure 2. The Bow-Tie Dipole**

The SWR bandwidth of the bow tie is just as good as it is with the fan. If you think you can hear the differences made by 1/10<sup>th</sup> of a dB gain, then computer models say the bow tie is that much better than the fan. (Before you get caught up in the idea, forget trying to hear a 0.1 dB difference in anything; you cannot do it.) So the difference comes down to this: which antenna is easier for you to build.

Fans and bow ties used to be built from bent tubing, getting rid of the center horizontal tube. Personally, I do not recommend this construction. Even if you are an expert tubing bender and do not weaken the tubing by crimping it, the wind will transform your fan or bow tie into a crumpled scarf in very little time. Some modification of the suggested construction method, adapted to what you have in your shop, makes the strongest assembly.

Fans and bow ties, especially fans, lend themselves to 2-element beams quite readily. Ask the folks at Butternut, where they make a multi-band beam from 2 fans slightly larger than the dipole described above. They call it a "Butterfly" beam, so if you make a beam from two bow ties, you can call it a dragonfly beam.

Actually, a mono-band beam for ten is not too difficult to build. With the basic fan dipole as a guide, you will have to lengthen the back element by about 5% or load it with a coil at the center. The driven element will be long, just about long enough to add the right inductive reactance for creating a beta match with a capacitor across the feedpoint terminals. You can experiment with variable capacitor and then replace it with a fixed capacitor of the right value. About an eight wavelength of spacing (about 4.3') will give the same performance as a "full size" 2-element Yagi, such as the "simplest" Yagi described in an earlier column.

When 10 is marginal for everyday activity, I suppose I will not break any taboos by mentioning the fact that you can apply the same fan principle to wire antenna for the lower bands. With all the variables that go into wire antennas for 80, 40, and 30 meters, it likely makes no great difference if you connect the ends of the fan together or leave them separate. If you add a fan wire to an existing antenna, be prepared to shorten the antenna, since the spread wire will act like a thickening agent. Some hams have strung wires cut for the low end of the 80-meter CW band, the Novice portion of the band, and for 75 meters, all with one feed. However, 80 is so wide a band (as a percentage of the frequency), that these wires tend to act like 3 independent antennas with a common feed. So you can expect to see ups and downs in the SWR pattern rather than one single low point.

The fan and the bow tie are distant relatives to the cage antenna, a series of wires spaced apart along their entire length by special non-conductive spacers. The original theory was that the radiation from each added up, but actually, the only benefit was getting the equivalent of a fat wire from thin ones. You do not have to go that complex route to get a wide-band for 10. The fan and the bow tie will do the job, and they are much easier to rotate the 90 degrees it takes to put a maximum face on the station you want to work.

#### ARTICLES

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

# TEN-TEN AWARDS

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

## TOP TEN HONOR ROLL

No.	CONTACTS	CALL	10-10#
1.	24600	WA5JDU	3017
2.	11700	K0PV	9902
3.	11700	N5XZ	4530
4.	11300	DL8YBM	36109
5.	10600	N1API	25468
6.	10000	K6PZE	1341
7.	9800	N5DAS	35877
8.	8800	AC6FU	10937
9.	8400	N6OPR	45715
10.	8200	K5FBS	48461

## TOP TEN CLUB

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

## 1000+ MILESTONE BARS

### 5000 BAR

NO.	CALL	10-10#
102	KD5DE	33513

## COUNTRIES AWARDS

### BASIC AWARD

NO.	CALL	10-10#
645	K4MM	7293

## CW AWARDS

### First CONTACTS

NO.	CALL	10-10#
102	K4MM	7293

I have just been made aware that Bob, K4QHH became an SK in December of last year. Bob was very active in Ten-Ten and wore at least FOUR hats! He was the manager of the Gold City Chapter, the award manager for the VP Bar Award, the VP WAS award and the Mobile Award.

I need people to step up and take over one or more of the last three awards. I believe that it is possible to recover Bob's data on his awards, so the new managers can pick up where he left off.

If you are interested in participating as an Award Manager for one or more of these awards, please contact me.

Marcus, KM5EH [km5eh@arri.net](mailto:km5eh@arri.net)

## AWARDS MANAGERS

BAR 100-900 ..	Dan Morris, KZ3T #41015 .....	3162 Covington Way, Lenoir NC 28645 .....	(828) 728-5049	<a href="mailto:dbmorris315@gmail.com">dbmorris315@gmail.com</a>
Bar 1000+ .....	Tony Lisnak, N2WIE, #66790 .....	192 Greenvale Ave, Yonkers, NY 10703 .....	(914) 476-4032	<a href="mailto:lisnak@optonline.net">lisnak@optonline.net</a>
VP Bar .....	Open			
VP WAS .....	Open			
VP Lucky 13 ..	Dan Morris KZ3T #41015 .....	3162 Covington Way, Lenoir NC 28645 .....	(828) 728-5049	<a href="mailto:dbmorris315@gmail.com">dbmorris315@gmail.com</a>
WAC .....	Kevin Gilot, NZ1I, #72759 .....	50 Cindy Lane Mystic, CT 06355-1404 .....	(860) 572-6086	<a href="mailto:kevinemtid@tvconnect.net">kevinemtid@tvconnect.net</a>
Counties .....	Mark Tatlor Murphy, KC4HIT #57488 ..	PO Box 936, Conover, NC 28613-0936 .....	(828) 466-1505	<a href="mailto:kc4hit@gmail.com">kc4hit@gmail.com</a>
Countries .....	Mike Davidson, N5MT #24949 .....	26274 Whispering Pines Ave, Denham Springs, LA 70726 ..	(713) 417-4727	<a href="mailto:N5MT@aol.com">N5MT@aol.com</a>
CW .....	Lee Zalaznik, KI6OY #50948 .....	334 Olivina Ave., Livermore, CA 94551-6137 .....	(925) 455-0361	<a href="mailto:lee.zalaznik@sbcglobal.net">lee.zalaznik@sbcglobal.net</a>
Digital .....	Mel Sojka, KD5DE #33513 .....	353 Atlantic Ave., Shreveport, LA 71105-2909 .....	(318) 286-2963	<a href="mailto:kd5de@nwla.com">kd5de@nwla.com</a>
Mobile .....	Open			
OM/XYL .....	Marcus Lieberman, KM5EH #71103 ..	2300 Hurley Drive NW, Albuquerque, NM 87120-1013 .....	(505) 836-1724	<a href="mailto:buckml@lobo.net">buckml@lobo.net</a>
WAS .....	Eva Donaldson, WB0CON #53964 ..	12933 W Montana Drive, Lakewood, CO 80228-4244 .....	(303) 989-0475	<a href="mailto:wb0con@comcast.net">wb0con@comcast.net</a>
WPX .....	Ed Bryant, KM5FF, #50356 .....	9001 Sunbow Ave SW, Albuquerque, NM 87121-8851 .....	(505) 934-2100	<a href="mailto:elbble@gmail.com">elbble@gmail.com</a>
GB Counties ..	Mike Crawshaw, G4BLH #18446 .....	35 Edward Drive, Clitheroe, Lancashire, England BB7 1EF ..	No Phone	<a href="mailto:g4blh@zen.co.uk">g4blh@zen.co.uk</a>

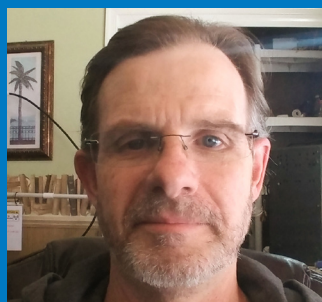
# Meet The Volunteers

**Note:** The Annual "Meet the Volunteers" event has been canceled until further notice due to band conditions.

AJ7B, Randy..... Editor  
 G4BLH, Mike ..... Awards - GB  
 K1IEB, Tim..... Net Control  
 K5BKT, Peg ..... Committee Member  
 K6RDK, Dave ..... Data/ Membership Manager  
 K7CWS, Ray ..... Net Control  
 KA0ZPP, Jim..... Director  
 KC4HIT, Mark ..... Awards - Counties  
 KC5ILO, Tom ..... Director  
 KD2NOM, Mark ..... Director  
 KD5DE, Mel..... President  
 KF4WKY, Mike..... Net Control  
 KG5RJ, Greg ..... Committee Member  
 KI6OY, Lee ..... Awards-CW  
 KJ5SZ, Hugo ..... General Counsel  
 KM5EH, Marcus ..... Director  
 KM5FF, Ed ..... Awards-WPX  
 KQ4PK, Robert..... Net Control  
 KR7RK, Keith, ..... Treasurer  
 KZ3T, Dan..... QSO Party Manager

N0TW, Terry..... Past President  
 N2WIE, Tony..... Awards-1000+ Bars  
 N3GTY, Bill ..... Committee Member  
 N5MT, Mike..... Awards - DX  
 N6OPR, Bob..... Director  
 N7YG, Jeff..... IT Manager  
 N9AC, Gerald ..... W6OI Trustee  
 NP2MR, David..... Committee Member  
 NS6X, John ..... Committee Member  
 NZ1I, Kevin..... Awards – WAC  
 VA7GY, Garry ..... Committee Member  
 VE3MEW, Bill ..... Committee Member  
 W5DJT, David ..... Committee Member  
 W5SUM, Ronnie..... Vice President / Secretary  
 W9HT, Josh ..... Committee Member  
 WA2SUH, Larry ..... Director  
 WB0CON, Eva..... Awards – WAS  
 WB6OJB, Arnold..... Net Control  
 W19X, Jim ..... QSL Bureau Manager





## 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
00035	W4BUR	Joseph D. Burnett, Jr. - Middleburg, FL
02837	WA6AMI	Donald C. Mathison - Chico, CA
02944	KJ4MP	Dwaine H. Howard - Hartselle, AL
03399	W8ZXP	John Oros - Port Charlotte, FL
04595	W5EMS	Charles H. Saunders - Louisville, MS
05588	W0TLE	Richard K. Philstrom - Scandia, MN
06288	WB8ACU	James C. Simashkevich - Amherst, OH
06954	W5HNK	Joe S. Muscanere - Pearlard, TX
08353	K4ICT	Frank L. Hough - Macon, GA
08941	WB8RIB	Anthony J. Armstrong - Hamilton, OH
09987	K5HW	Harry R. Walton - Richardson, TX
10427	W7RTC	Herbert B. Kreuger, III - Forest Grove, OR
10998	W1JHU	Alfred J. Reeves - Ocala, FL
11326	KD8L	Charles A. Weimer, III - Florence, KY
11452	K2FL	John M. Heisey - Palmyra, NJ
12188	W3VUH	Robert F. Snyder - Frederick, MD
12518	W8TVT	Joseph W. Novak - Traverse City, MI
12601	W1KKF	William W. Wawrzeniak, Sr. - Wallingford, CT
13539	W4ZE	Theodore A. Huf - Port St. Lucie, FL
13732	K1UL	Jack Alexander - Stamford, CT
15964	NA0I	William J. Weiss, Jr. - Ames, IA
16288	W8FUP	Floyd Grosseohme - Cincinnati, OH
16337	WB4RQD	Bobby Ellison - Williston, FL
17621	WA4NOH	Vernon B. York - Columbia, KY
17890	WA7ZGK	Richard T. Robinson - Hudson, MA
18049	VE4ABU	Al Rowe - Winnipeg, MB
18695	WB4SUD	Clyde S. Minor - Wilmington, NC
19687	WA6HLE	Leonard J. Schumacher - Belmont, CA
20351	W5ACM	Andrew C. MacAllister - Houston, TX
20641	N1NA	Charles P. Michaud - Cape Coral, MA
20945	K4OVG	Jay H. Morgan - Greenville, TN
21028	K4SFI	Robert W. Reed - Charlotte, NC
22820	WB5NOG	Hans Clahsen - Sierra Vista, AZ
22965	KB3XY	Jon R. Benson - Panama City, FL
23607	WB7WHN	David A. Keene - Spokane, WA
24904	WB5YPE	David W. Stephens - Corpus Christi, TX

10-10#	Call	Name - City, State
25292	K2PPO	Norman J. Webb - Baldwinsville, NY
26023	W4NE	John T. Webb - Greenville, SC
26040	K4QHH	Robert A. Bischoff - Rutherfordton, NC
26834	W4CCS	Clyde Scott, Jr. - Moultrie, GA
27184	KA6R	James B. Wilbanks, III - Bossier City, LA
27841	WB7SCD	Paul C. Leffler - Beaver Dam, AZ
29758	WD4JZG	Joseph P. Giangrosso - Niceville, FL
29895	K0HMO	Richard F. Drew - Springfield, IL
30002	WB7TNH	Joseph P. Heyde - Great Falls, MT
30191	NY4C	Arthur J. Weir - The Villages, FL
31377	W1BGL	Nicholas E. Gatzios - Shrewsbury, MA
32205	KC5ZT	Calvin L. Neely - Kerrville, TX
33194	WD9DVA	Edward J. Woods - Greenwood, IN
36000	KH6KV	William D. Osborn - Haleiwa, HI
36654	N6ELK	Louise Chapman - Long Beach, CA
37107	KB1CD	Nicola A. Calandrello - Andover, MA
37152	W1MA	Edward V. LaJoie - Marstons Mills, MA
37976	KC0TF	Wallace J. Moffett - Boulder, CO
38032	N5IAC	Fritz J. Grinde - Las Cruces, NM
39400	W4FR	Norman Borestein - Davie, FL
39533	KC3RA	Stephen L. McCarter - Hebron, MD
39700	N4HQT	David R. Miller - Kimball, TN
39788	N4EDE	Dale T. Smith - Morganton, VA
41564	WB6ZEQ	Herman C. Smith - Lakeland, FL
42563	W4CDR	John T. Kerr III - Durham, NC
44123	WD3L	Harry L. Burkland - Mifflinburg, PA
44462	K9UZZ	Herbert L. James - Ridgeville, IN
45396	WA4HIA	Walter L. Magee - Eutaw, AL
45414	W8BUD	Buddy L. Coulter - South Haven, MI
46506	N5GH	George A. Hancock, Sr. - Florence, MS
48142	N1FHR	William J. Pineault - Norwich, CT
48448	N4WWX	Ronald A. Frost - Winston-Salem, NC
50757	N4XML	Robert J. Gagliardi - Myrtle Beach, SC
51347	W5WEE	J.K. Fancher, Jr. - Harrison, AR
51958	KB9CSO	Paul A. Williams - Edinburgh, IN
54248	VE6AVK	John Verkerk - Sherwood Park, AB
54555	N5NY	Robert D. Adler - Euless, TX
54590	W2IOT	Alexander Onyskin - Huntington, NY
58253	KO4ES	Bobby Scott - Alexander City, AL
59237	WA7RF	Robert S. Fisher - Deer Park, WA
59761	W4LGF	Lawrence G. Fehrenbaker, Sr. - Naples, FL
60028	N5SGO	Lee A. Pascoe - Catoosa, OK
60463	KO4VQ	Hubert Turley - Culpeper, VA
61381	N5XUS	Robert B. Rowen - Round Rock, TX
62493	WA1FJ	Frederick S. Jarvis - Estero, FL
62980	WA9MQD	Frank W. Faivre - Shabbona, IL
63629	KQ6YH	Richard S. Vander Jagt, Sr. - Lakeport, CA

10-10#	Call	Name - City, State
63971	N1JZO	Robert P. Chartier - Ware, MA
64307	N5VYS	Obie D. Weathers, Jr. - San Antonio, TX
65085	WA5CAM	Stan Owens, Jr. - Natchez, MS
65266	K3EQ	Kenneth E. Queen, Sr. - Bruceton Mills, WV
66559	N3UBZ	Arnold J. Smrcka - Union City, PA
67171	KK2C	Thomas D. Kirmayer, Jr. - Norwalk, CT
67984	WA1WM	William H. May - Coventry, RI
68898	NF9T	Tuck Miller - Danville, IL
69459	KF4FMX	Henry A. Langley - Pittsboro, NC
72825	NN5G	Paul J. Kelly, Jr. - Oklahoma City, OK
73210	N1VPA	William M. O'Flahaven - West Palm Beach, FL

75041	NU4C	Paul E. Milward - Ormond Beach, FL
75320	KD8GRO	Daniel R. Burgess, JR. - Mansfield, OH
75423	KK4OA	Gregory K. Phelps - North Chesterfield, VA
76246	KT3A	Cameron C. R. Bailey - Manchester, PA
76311	W9PW	Danny R. Groover - Avon, IN
76580	K1MW	Mike Wood - Louisburg, NC
77079	W4RIQ	Joe E. Whisnant - Lenoir City, TN
77629	W0LY	James R. Martin - Crestview, FL

Thanks to all for their efforts in helping me keep the sk column as up to date as possible.

Mark 73, KD2NOM #77596

#### 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](http://www.ten-ten.org) and follow the links from 'membership' to 'application' and select membership category.

### *Primary Membership*

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

### *Family Membership*

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

### *Life Membership*

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

### *Senior Life Membership*

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

*Family Life Membership* is no longer available

### *Club Membership*

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

### *Electronic Membership*

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

## MEMBERSHIP RENEWALS

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

## DATA MANAGER SERVICES

### *Call/Name/Address Changes*

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

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

Mail to:

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

### *SCHOLARSHIP DONATIONS*

Donations to the 10-10 Scholarship Foundation are encouraged by our members to help fund three \$2,000 10-10 Scholarships that will be awarded next year. For donations of \$25 or more you are eligible to receive a current year's lapel pin as a thank you gift. To pay by credit card, see the payment information on page 31. Your check should be made payable to the 10-10 Scholarship Foundation and sent to the Data Manager (address shown above) or the Scholarship Manager:

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

## TEN-TEN QSO PARTY RULES

## 5.2 10-10 QSO PARTIES

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

## 5.2.1 WHO IS ELIGIBLE?

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

## 5.2.2 WHEN ARE THE QSO PARTIES?

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

**Winter Phone** - held on the first full weekend in February

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

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

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

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC through 2359 UTC.

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

0001 UTC Saturday through 2359 UTC Sunday.

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

0001 UTC Saturday through 2359 UTC Sunday.

## 5.2.3 FREQUENCY AND MODES

Direct unassisted contacts only are permitted. Repeater, Satellite, IRLP, Echolink, or any other similar type of assisted contacts are NOT allowed. Based on the appropriate band plan for the country of operator, CW QSO Parties should be operated in the CW area of the 10-meter band and operated using CW only. Digital QSO Parties should be operated in the digital area of the 10-meter band and operated using Digital modes only (RTTY, PSK, etc). Phone QSO Parties must be operated in the PHONE area of the 10-meter band and may be operated using any approved method (SSB, FM, AM). The SPRINT utilizes all operating modes in the 10-meter band. 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/RTTY operations max 5 watts and Phone operations max 10 watts during the entire event.

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

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

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

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

## 5.2.5 TRANSMITTER INFORMATION

An operator may operate mobile, portable or fixed. If they change their exchange QTH during the QSO Party, the operator must show same in their log. The operator may enter a log from one call district, province, or DX country. Multi-transmitters (two or more transmitters operating simultaneously, sharing one call sign) are NOT permitted in any QSO Party. 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](mailto: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, than 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**

**Due to poor band conditions, these events have been postponed until further notice.**

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 WEAK SIGNAL QSO PARTY (WSQP)**

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

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

Entry categories: QRP – Maximum 10 watts output.  
Low Power – Maximum 150 watts output.

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

**5.2.13 10-10 SPRINT (October 10) QSO PARTY**

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

**5.2.14 W6OI SPECIAL EVENT**

**This event has been postponed until further notice.**

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

**5.2.15 FOR MORE INFORMATION**

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

# 10-10 QSO PARTY COVER SHEET

## QSO Party (select one):

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

## Contest Exchange:

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

## Entry Information:

Name: \_\_\_\_\_

Mailing address: \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_

State/Province/County: \_\_\_\_\_

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

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

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

## Entry Type (check one only):

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

## Claimed Score:

Contacts WITH 10-10 number: \_\_\_\_\_ X2 = \_\_\_\_\_

Contact WITHOUT 10-10 number: \_\_\_\_\_ X1 = \_\_\_\_\_

Total Contacts: \_\_\_\_\_ Total Pts: \_\_\_\_\_

## Submitting Logs:

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

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

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

**EMAIL to: [tentencontest@ten-ten.org](mailto:tentencontest@ten-ten.org).**

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