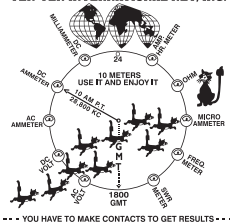


TEN-TEN INTERNATIONAL NET, INC.



TEN-TEN INTERNATIONAL **NEWS**

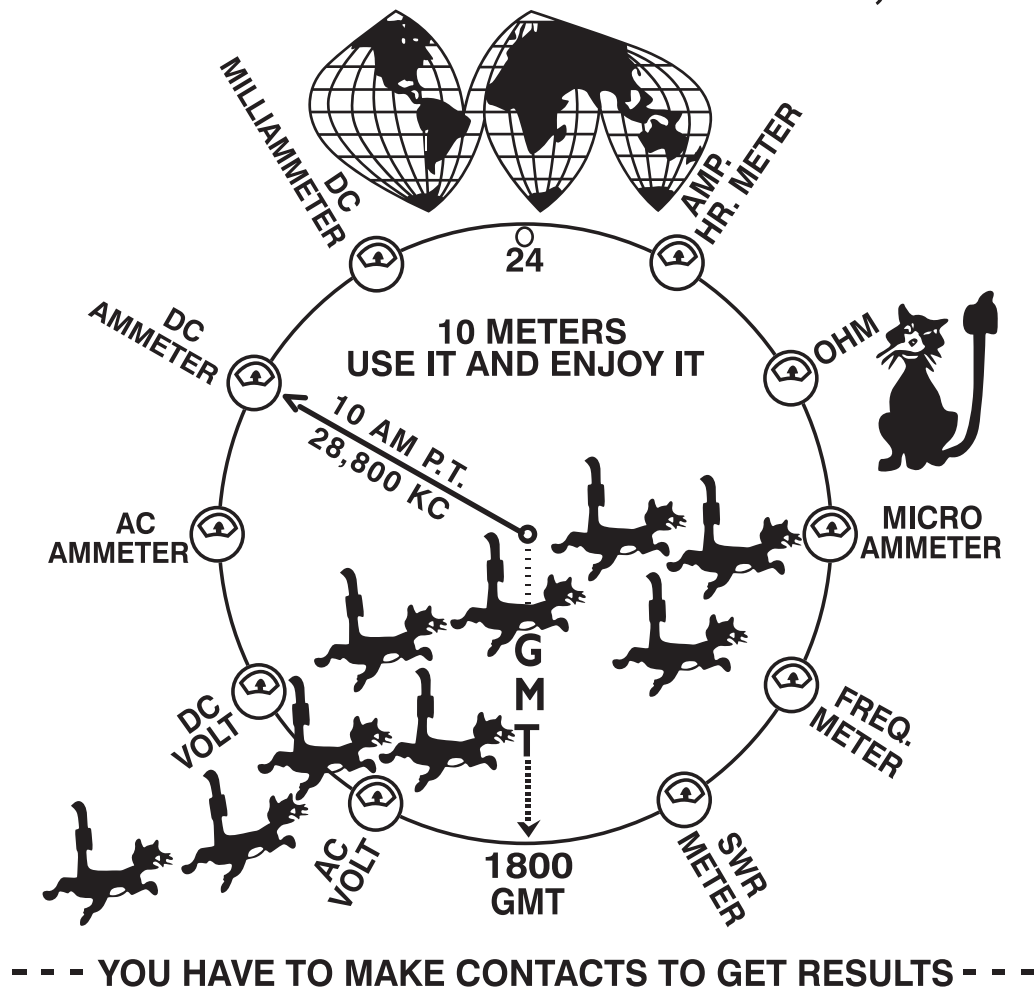


Member
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News items should be sent to the Editor. Technical articles and information on all 10 meter activities or news are welcome and solicited. All copy submitted must be typed, sent on computer disk or E-mail. Suitable formats will be provided upon 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 December 2016

PLEASE MAIL ALL ARTICLES AND PHOTOS TO:

EDITOR Ten-Ten News

E-mail: editor@ten-ten.org

10-10 CHAPTER ACTIVITY REPORTS: Should be sent to the Chapter Coordinator
ADDRESS CHANGES: All members should send address changes to the Data Manger
 NOTE: 10-10 IS NOT RESPONSIBLE FOR POSTAL SERVICE DIFFICULTIES

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From the Editor

Randy Mather, AJ7B
 (#7576)

As of October 1, 10-10 elections are over. All that needs to happen now is the tallying of the ballots. If you want to see the results before they are published in this newsletter (January 2017), check the web site. The results should be on the web by November 1st.

In this issue you will note that we lost a 10-10 member that has been a net control operator since 2008. Ann, KE6OIO #68997, started as an alternate net control in the fall of 2008. She became the Tuesday 28.8 MHz net control in the winter of 2014. You will find a letter from one of her friends, Louise, N6ELK #36654, later in the newsletter. Ann will be missed.

Winter is fast approaching and we are all hoping and praying for better propagation. So far, the propagation gods have not been too favorable toward us communicators. Especially on ten meters. I have been listening to the net frequencies almost every day and participated in the QSO parties. It has been pretty slim pickings for the last three months. This propagation dry spell is very apparent when you look at the net report and QSO party results published in this issue of the newsletter. These indicators tell me that our sun is definitely headed for its cycle 24 slumber. They are projecting that cycle 25 will not start until 2020.

In this issue you will learn about the five 2016 10-10 Scholarship winners. One in Cypress, one in India and three in the U.S.A. Congratulations to the winners. It is really great that we can offer scholarships to five people now. Thank you scholarship board for expanding the program.

73 - Randy

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.



From the President

Mel Sojka KD5DE
#33513

UPPER LEVEL QRM

Well here we are – the October edition of the 2016 News. For the past six years the membership has been tasked with my grammatical errors and random comments of no purpose. Just like the coon hunter that climbs the tree to retrieve his game only to find it is a bob cat and not a coon he has wounded. You are ready for some relief. This will be my last article as your President but it is not my wish to retire. My decision is due to priorities. First is my God, second my family, third my health, and then job or position. Over the past three years I have become a full-time caregiver. This does not allow me to operate on ten meters for more than a short period of time. Also, I can no longer travel to represent 10-10. Of course, with such a fine array of volunteers and elected officials, the net will continue to be one of the strongest groups within Amateur Radio.

Terry Webb, N0TW #36547 is running uncontested as your next President. I feel confident that he will promote and represent 10-10 in a manner that is beneficial to all. Even though he is elected, he is still a volunteer. This position is not for personal gain or profit. This is why we don't do politics and hopefully never will. I encourage each of you to give him the same support that I have received during my tenure.

As of this article, composed mid August, we have gained 1,662 members since I took office. That would be nice growth, except the SK numbers over the same period has resulted in a loss instead of growth. A large portion of our members are baby boomers (46-64) and 6 million of those have passed in the past 7 years. Of course we are not the only organization suffering. Many of the ARRL officials have expressed concern on this issue. There was a short period between the CB boom and the cell phone invasion where all Amateur organizations experienced great growth. Now, maintenance seems to be the best method for survival, and we have an advantage in that area.

Our Data Manager, David Smith, K6RDK #65812, spends many hours each month sending out renewal reminders both electronically and by mail. He is dedicated far beyond normal expectations. He is concerned when just one member has a problem to the degree that he asks if we need to change

something within the system. Actually, the majority of the problems stem from the lack of communication skills. Number one is the ability to read and comprehend. Maybe I am wrong, but I look to "Social Media" as the cause of this problem. No matter, Dave will resolve the issue. I have been blessed having Dave as the data manager for 5 of my 6 years in office.

On the growth front, we have several things to assist us. First are the efforts of our daily net control stations and their relays. I am copied on all electronic renewals and applications. It is normal for the membership application to contain contacts made on the daily net. Bob Farrow, N6OPR #45715 is dedicated to the max as our Net Manager. Then we have a few very active chapters both stateside and in Europe that provide new members no matter what the band conditions. On those few occasions when the band is open for a QSO party, we can have over 100 new members apply to join 10-10.

Our directors and I have made an effort to attend and man the table at all major Hamfests to encourage renewals and promote 10-10. This is an important method of advertising. At every event I attended, I have had attendees tell me they didn't know 10-10 was still around. Also, with very few exceptions, there have been renewals at these events.

Of course when 10 meters opens, we have activity on the website. One of the website tools is the members' area. It is reserved for members only and within it there is an area for current members only. Many times a passer-by fails to read the instructions on the home page and registers for member area access. When this is done, a simple email goes to them promoting membership and their registration is removed. Very often, within a short period, there will be a membership application processed for this person. Courteous business practice never fails.

To counter any effects of the membership growth crisis, we have reduced operation expenses over the past 6 years. Increasing membership fees is not the answer to this problem. We have reduced the number of extra issues of the newsletter, added a 4-fold pamphlet, and replaced the physical BOD meeting with an on-line meeting. The on-line meeting is still in development, but is fully functional. We have also trimmed the number of Directors to 6, removing the Convention planning director and creating an appointed IT position to handle the web page and electronic media. Hopefully these efforts will reduce expenses and increase efficiency. Only time will tell.

We have had issues over the past 6 years and they had to be resolved. I made every effort to follow proper procedure and give the authority to the BOD. A president, in accordance with Roberts Rules and our By Laws, has the authority to preside; this is due to the fact that we are a volunteer organization. We are not a corporation or a business, and as such the president only presides over the board and does not make motions and normally only votes on motions when a unanimous vote is required. This means that I did not always get the results I desired.

There are so many members in the background that have advised and assisted me over the past 6 years that I fear to name any since I will forget many. I thank all of you for the support.

God Bless & 73

Mel KD5DE #33513

Ten-Ten Top Operator Award

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

The Top Operators for Q3 are:

Operator - **N5MT** Mike Davidson #24949

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



(L-R) Marcus Lieberman, KM5EH, 71103, Jim Fox, KA0ZPP, #43428 and Stephanie Fox, KA0ZIA, #44303 man the 10-10 International Net booth at the Duke City hamfest in Albuquerque, NM.

NEW LIFE MEMBERS

17301	K6FUI	James F Elliott	CA
29301	WB2LLH	John W Drozdowski Sr	NJ
30616	WA6VWJ	Norm Kibby	AZ
33392	WB2UKO	Joseph J Milazzo	FL
37561	WI3R	Roger A Johnson	PA
52695	KK6AM	Raymond E Abbitt	OR
73028	NØQJS	John R Roth Jr	MO
75590	N9XHU	Leonard E McWhorter	IL
76047	KBØVVD	Roger W Grant	NE
76794	KR5LM	Randy Marek	TX

10-10 NET CONTROL STATIONS

ALL NETS BEGIN AT 1800Z

Mon (28.380)	Alan, WB9WZI	#76209	IL
Mon (28.800)	Doc, WB6OJB	#70675	CA
Tues (28.380)	Ray, K7CWS	#50288	AZ
Tues (28.800)	Open. Contact N6OPR for info		
Wed (28.380)	Marilyn, WM2W	#76400	FL
Wed (28.800)	Louise, N6ELK	#36654	CA
Thu (28.380)	Bob, N6OPR	#45715	AZ
Thu (28.800)	Robert, KQ4PK	#63201	NC
Fri (28.380)	Terry N0TW	#36547	FL
Fri (28.800)	Bob, K6DNR	#75386	CA
Sat (28.380)	Dan KC8IM	#31959	MI
Sat (28.800)	Open. Contact N6OPR for info		
Sat (28.125) CW	Jim WI9X	#49635	IL

Sunday **NEVER ON SUNDAY**

NET CONTROL STATIONS NEEDED

Needed: Net Control Station for the 28.380 and 28.800 MHz Nets at 18:00 UTC Monday-Saturday. If interested contact N6OPR via e-mail: N6OPR@msn.com.

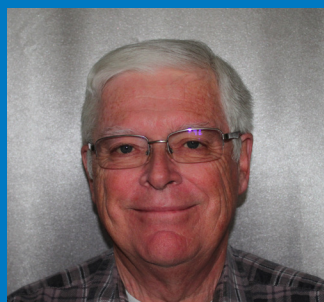
TEN-TEN NET GUIDE

As of September 1, 2016

DAY	ZSUM	ZWIN	Chapter Name	Location	Freq	DAY	ZSUM	ZWIN	Chapter Name	Location	Freq
SUN	0300	0400	Chief Seattle	Seattle, WA	28430	WED	1400	1500	EU DX/Branding Iron	Bergamen, DL	28355
SUN	1300	1400	Arlington	Arlington, VA	29200	WED	1700	1700	Gold City	Rutherfordton, NC	28425
SUN	1400	1500	Neanderthal	Leichlingen, DL	28355	WED	1700	1800	Channel Islands	Oxnard, CA	28340
			Chapter/Springbok			WED	1930	1930	Route-66	Boonville, IN	28370
SUN	1430	1430	Cincinnati Area Ten Tuners	Milan, IN	28960	WED	1930	1930	Windfarms	Livermore, CA	28485
SUN	1630	1730	Possum Trot	Raeford, NC	28345	THU	0001	0100	Cradle of the Confederacy	Pike Road, AL	28350**
SUN	1700	1700	Major League Baseball	Gilbert, AZ	28375	THU	0100	0200	Gateway	St. Louis, MO	28650
SUN	1800	1900	Portland 500	Portland, OR	28350	THU	0001	0100	Cow Town	Arlington, TX	28460
SUN	1900	2000	Oregon Trail	Dallas, OR	28330**	THU	0100	0200	Milwaukee	Milwaukee, WI	28365
SUN	1930	1930	North Georgia	Atlanta, GA	28610	THU	0100	0200	Channel Islands	Oxnard, CA	28340
SUN	1930	2030	Steel City	Eubank, KY	28420	THU	0230	0330	Windfarms	Livermore, CA	28485
SUN	2030	2030	Santa Fe Trail/ Springbok	Galesburg, IL	28385	THU	0230	0330	Up The Crick	Eugene, OR	28450
SUN	2030	2030	Santa Fe Trail/ Springbok	Galesburg, IL	28120 PSK	THU	0300	0400	Chief Seattle	Seattle, WA	28430
SUN	2100	2200	Possum Trot	Raeford, NC	28150 CW	THU	1930	1930	Speedway	Rainier, OR	28350
MON	0001	0100	Chesapeake Bay	Chestertown, MD	28435**	THU	2000	2000	Branding Iron	Kemper, TX	28345
MON	0100	0100	Arizona Desert	Phoenix, AZ	28445	FRI	0001	0100	Fort McHenry/ Cornerstone/Yodar Kritch	Arbutus, MD	28370**
			10-10 Net								
MON	0100	0200	Milwaukee	Milwaukee, WI	28365	FRI	0300	0400	Chief Seattle	Seattle, WA	28430
MON	0100	0100	Lonestar	Arlington, TX	28460	FRI	0310	0410	Kentucky Cardinal	Russellville, KY	28600
MON	0130	0230	Bauxite	Benton, AR	28470	FRI	0310	0410	Kentucky Cardinal	Russellville, KY	28480
MON	2030	2030	Space Coast	London, KY	28355	FRI	1400	1400	New Waterkant	Boerm, DL	28355
MON	2330	2330	Sky BI Wtr/ Tn Lzz/Twn Ct	Inver Grove, Heights, MN	28380	FRI	2230	2130	Down Under	Auckland, ZL	28530
TUE	0001	0100	Branding Iron	Kemper, TX	28325**				(Summer in NZ is winter in US)		
TUE	0001	0100	Ft McHenry/ Cornerstone/Yodar Kritch	Arbutus, MD	28370**	SAT	0001	0100	MAINE-iacs	North Haven, ME	28777
						SAT	0300	0400	Chief Seattle	Seattle, WA	28430
TUE	0100	0200	CO Centennial/ CO Frontier Gang	Lakewood, CO	28340	SAT	1430	1530	Steamboat Plus	Shreveport, LA	28430
						SAT	1400	1400	Hanse	Hamburg, DL	28355
TUE	0100	0200	City of Lights	St Charles, IL	28150 CW	SAT	1500	1600	Republic of Texas	Eules, TX	28460
TUE	0130	0230	City of Lights	St Charles, IL	28720	SAT	1510	1610	Louisiana Pelican	Livingston, LA	28450
TUE	0130	0230	Bauxite	Benton, AR	28470	SAT	1600	1700	City of Roses/ Portland Bridges	Ridgefield, WA	28835
TUE	0130	0230	OK Route 66	Okla. City, OK	28390						
TUE	0300	0400	Bay Area	Hayward, CA	28475	SAT	1730	1730	Tango	Buenos Aires, LU	28650
TUE	0430	0430	Aloha	Hilo, HI	28490	SAT	1800	1800	Keystone/ Keystone Stars	Brea, CA	28765
TUE	1500	1600	New Mexico Mud Ducks	Albuquerque, NM	28835	SAT	2000	2000	Restoration Project/ Feline Friends	Port Alberni, BC	28750
T/W	2330	0030	Republic of Texas	Eules, TX	28560						
T/W	2330	0030	Minuteman/ Old Ironsides	Saugus, MA	28409	SAT	2200	2200	Alii	Lihue, HI	28730
WED	0001	0100	Castle Craig	Meriden, CT	28375**						
WED	0001	0100	Cincinnati Area Ten Tuners	Milan, IN	28800						
WED	0100	0200	Houston SHOT	Houston, TX	28488						
WED	0100	0200	Gateway	St Louis, MO	28650						
WED	0200	0300	10 Bar X	El Paso, TX	28445						

** Indicates a change since the last published list.

All changes to the above times and/or frequencies should be referred to the Chapter Coordinator if you desire your net information to be accurate. Chapter Coordinator: KA0ZPP, Jim Fox, PO Box 135, Mayhill, NM 8839-0135. E-mail: ka0zpp10ten@gmail.com.



Chapter Coordinator

Jim Fox, KA0ZPP
(#43428)

GENERAL NEWS

1) I think everyone is frustrated by the poor propagation on 10 meters during this solar cycle. It has been even worse here in New Mexico as we went through our summer "monsoon" weather pattern with many thunderstorms. But there have been openings! Keep listening and if you do not hear anything, throw out a few CQs of your own – maybe everyone else is just listening, too! Thanks to the Chapters who keep trying to maintain activity.

2) If your chapter is planning a special during the months of January, February or March, please let me know so I can include the details in the December newsletter.

3) Final Notice: The following Chapters are more than one year behind in their Quarterly Chapter Reports. They have been listed in past issues of the NEWS and I have tried to contact the CHs directly with no response. If any local chapter member knows of chapter activity or any other member has heard them on the air, please contact me directly at ka0zpp10ten@gmail.com. Any of these chapters for which no information is received will be considered by the Chapters Committee for loss of affiliation.

Chapter (Last Report) CH

Chesapeake Bay (07/2014) CH N3TF Cindy

Chief Seattle (04/2015) CH N7QHC Dan

Kentucky Cardinal (03/2014) CH W0WSP Doug

Keystone/Keystone Stars (02/2015) CH KA6GPC Gary

Maine-iacs (05/2014) CH W1MGP Sam

Oklahoma Route 66 (01/2015) CH KM5GZ Robert

Sky Blue Waters/Tin Lizzie (01/2015) CH K0DBK Brad

Steel City (01/2015) CH KE9WZ Wally

4) Reminder of Quarterly Reports Due: Past Due (no report received during third quarter when due): Minuteman/Old Ironsides. Reports received after

August 31 (date of this report) are not included here and will be acknowledged in the Chapters section of the 10-10 website.

Chapter Reports Due Before Year End. Milwaukee, Up the Crick. Note that Quarterly Chapter Reports may be sent any time. The months indicated here are the dates in 2015 in which the last report was received.

CHAPTER NEWS

1) City of Roses, Portland Bridges and Restoration Project have resumed weekly net operations after suspending them for the summer.

2) Oregon Trail has changed their weekly net frequency to 28.330 MHz on Sunday in order to attract more Technician licensees.

3) Chapters that accept email upgrades as of August 31. 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, <mailto:wh6s@outlook.com>. Use form available from the CM.

Bauxite – CM K5BKT, <mailto:k5bkt@nwla.com>. Bauxite and Arkansas Visitor numbers only.

Bay Area – CM K6RDK, <mailto:k6rdk@arri.net>

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

Branding Iron II/Trail Driver – CM N5SCA, n5sca@sbcglobal.net

Castle Craig – CM N1API, n1api@cox.net

Chesapeake Bay – CM N3TGB, n3tgb@aol.com

City of Roses – CM K7PRZ, k7prz@isp.com

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

Cradle of the Confederacy – CM K4PO, k4po@charter.net

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

Fort McHenry/Cornerstone/Yodar Kritch – CM K3TUIJ, k3tuj@juno.com

Gold City – CM K4QHH, rabisch@hotmail.com

Hanse – CM DL5HAN, dl5han@t-online.de

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

Keystone/Keystone Stars – CM KA6GPC, ka6gpc@aol.com

Major League Baseball – CM N6OPR, n6opr@msn.com
Minuteman/Old Ironsides – CM WA1ENO, wa1eno@hotmail.com
New Mexico Mud Ducks – CM KM5EH, buckml@lobo.net
New Waterkant – CM DK7LA, dk7la@t-online.de
North Georgia – CM W4GKF, 10X@chazcone.com
Oregon Trail/Portland 500 – CM W7HO, w7ho@w7ho.com or w7ho@arri.net
Restoration Project – CM VA7SJ, ve7ssj@shaw.ca
Santa Fe Trail – CM KA9PCU, ka9pcu@centurylink.net
Sky Blue Waters/Tin Lizzie – CM KA0ZIA, sbwtl1010@gmail.com
Space Coast – CM K5FBS, k5fbs@yahoo.com
Speedway – CM W7CAR, w7car@arri.net
Steamboat Plus – CM KD5DE, kd5de@nwla.com
Steel City – CM KE9WZ, ke9wz@windstream.net
Twin Cities – CM K0DBK, kzerodbk@gmail.com

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

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



(L-R) WD5C Larry #21786, K5ALI Alli #74286, and K5BKT Peg #64386 man the 10-10 International Booth at the Shreveport hamfest.



DX News

Mike Davidson, N5MT
 (#24949)

It has been almost three months since many of you participated in the ARRL 2016 Field Day, which is the most active radio event all year in the US. In past years, many of you operated on Ten during Field Day but this year conditions were poor for all. The average solar flux that weekend was less than one hundred, so the Sun provided less propagation energy during Field Day, with 25 percent fewer QSO's on all bands. Our local club made an 8A effort and had 1000 fewer QSO's than last year and we had fun from a new fire station location. Any summer time event can produced unexpected propagation paths on Ten that we do not see in the winter months. So I hope you sent in your score for Field Day and downloaded your log to the LoTW system as well. Remember to load LoTW at least each quarter or monthly even if you are not very active!

You should be using a spotting network to watch which bands are active in real time like: www.DXSummit.FI. You can set a filter to just watch Ten meters by clicking on a tab and saving the filter. Likewise, you can filter SSB, CW or a digital mode. It's a spotting cluster for contest info and on the air events so use the network.

There was no new 10-10 DX country activity during the past 2016 summer quarter. The last new 10-10 country was Juan de Nova by Flo F5CWU in March/April 2016. There are about twenty-five countries that have never had any 10-10 activity!

I am almost finished with this DX article, and I see that there were not many reported operating events again this quarter. Less propagation, has put a damper on talking on Ten and the other bands as well. Fewer 10-10 members have operated from DX countries this year. Looking at the planned events for this fall/winter, shows an increase in our DX seasonal activities. But expect weaker signals for the next three years as we experience more declining solar cycle propagation.

Countries Award: There was one upgrade issued this past quarter and no Basic Countries Awards. If you apply for any 10-10 award, please check the website for a complete list of the rules. The one upgrade happened by chance for Dave KA5OVO who lived in the Houston area and became a silent key

in January 2016. I had a task to find all 10-10 historical records that Dave had accumulated while he was the Historian. His wife Jeanine KA5SHP #41496, gave me a box and two binders with 10-10 records. In those records were three applications by Dave for bar awards he received years ago. I looked through each bar app and found six countries that he did not have for 10-10 credit. I filled out an upgrade application for Dave so he would get the credit for these six contacts back in 1989. I sent his wife Jeanine a follow-up recognition letter for Dave efforts.

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

GENERAL 10-10 DX REPORTED IN THE PAST QUARTER:

CY9 St Paul Island. On August 20th, a group of ops flew to St Paul Island and started using call sign CY9C. Randy **N0TG** #12990 and Will **AA4NC** #15774, were the only 10-10 members in the group. They left Aug 29th. Website: <http://CY9DXpedition.com>.

FJ Saint Barthelemy. Thomas **FJ/W9AEB** was on St. Bart but is not a 10-10 member. The original owner of call sign W9AEB Jay is now a silent key.

HL South Korea. Ho-Jong **DS5ACV** #72422 was on during the IOTA contest at the end of July.

J6 St. Lucia. William **K9HZ** #2618, arrived in Labrelotte Bay in late August and will stay until September 11th. His call sign is J68HZ on all modes.

J7 Dominica. Howard **WB4WXE/J79XE** #7010, was in Dominica from June 11th to July 11th and reported dismal conditions on Ten Meters. He made 1700 contacts with 98 percent of them on 20 or 15 Meters.

K USA. Howie **K1VSJ** #35318, was again in Martha's Vineyard, MA during the IOTA contest July 30-31st.

KH8 Am. Samoa. Tom **KC0W** #67688, operated only CW from Tutuila Island during June 2016. His call changed to 5W0COW, so be careful logging him and his 10-10 counts no matter what call is being used, just ask.

OJ0 Market Reef. Rene **DL2JRM** #69623, was on Market reef for the Worked All Europe CW contest from August 11-16th with friends. SSB & CW only.

OZ Denmark. Rene **DL2JRM** #69623, was on Hjarno Island during the IOTA contest at the end of July.

V2 St. Kitts. Gary **V4/G0FWX** #49106, was on a vacation trip to Calypso Bay, from June 29th to July 6th.

VP6 Pitcairn Isl. Nob **JF2MBF** #66003 and a friend, arrived on Pitcairn in August and will leave September 3rd. Their call sign is VP6J on all modes.

VP9 Bermuda. Jeff **VA3QSL** #73406 arrived in Bermuda on August 31st and will leave September 8th. His call sign was VA3QSL/VP9 on all modes.

SV Greece. Berkin **TA3J** #74303, was on the island of Molyvos from July 21-24th using SSB and FM modes.

T2 Tuvalu. Tom **KC0W/T2COW** #67688, was on from July 19th to August 18th on CW only. He moved to Vanuatu YJ on August 20th until September 21st CW only.

TF Iceland. Wolfgang **DH2IW** #71005, was in Iceland in late July until the 28th. SSB and digital modes only.

TK Corsica Island. Laurent **F5MUX** #42039, was using call TK5UX on Corsica in July.

VE/VY Canada. Bruce **KD6WW/VY0** #13040 was on IOTA NA-159 the last weekend of August.

YJ8 Vanuatu. Rod **YJ8RN** #62217, was on the air from July 25th to August 20th from Loh Island mostly SSB.

Tom **KC0W/YJ0COW** #67688 arrived in Vanuatu on August 21st and will stay until September 21st. He reported his present location has a mountain blocking signals/propagation to North America. Only CW.

YV0 Aves Island. A group of Venezuela ops going to Aves Island have been delayed in August. Members are Ramon **YV5EED** #8498 and Benito **YV4YC** #8495. The last activation on Aves was in February 2007. The new date depends on the Venezuela Navy who will take the group to Aves. The web site is: <http://YXX0V.com>.

UPCOMING DX & NEW 10-10 ACTIVITY:

C8 Mozambique. Doc Arnold **WB6OJB** #70675 is in Mozambique like his visit last year. He started today, September 1st for eight days using call sign C81AK. Doc uses a Kenwood TS-2000 with various antennas. He will be ten hours earlier than the east coast of the US so he will look for a Ten opening late in his day. LoTW.

D4 Cape Verde Island. Ralf **DK8FA/D44TUJ** #42020, will be in Cape Verde from September 15-29th.

FM Martinique. Mac **WT4BT** #76242, will be with friends on Martinique from Oct 29th to November 4th.

J6 St., Lucia. A group of ops will be heading to St. Lucia in early November 2016. There are two 10-10 members in the group: Ev **W6ABM/J68ABM** #60945 and Rex **J6/NX8G** #75322. Look at qrz.com for each operator's info. LoTW and Club Log.

HR Honduras. Mike **AJ9C/HR2** #41205, will be there from November 22-30th for the CQ WW CW Contest. He will use call HR2J in the contest. LoTW.

KP2 US Virgin Islands. Tony **N2TK** #22425 and friends, will be back on St.

Croix for the CQ WW SSB contest in October. Call sign probably KP2M.

P4 Aruba. John **W2GD** #14109, is going back to Aruba for the CQ WW SSB contest at the end of October using call P40W. He will also come back in November to operate for a week during the CQ WW CW contest. LoTW.

PJ7 St. Maarten. Phil **K0CD** #42627, will be operating PJ7/K0CD at the end of November 2016. He will be low power QRP on 10-40 Meters. Ed **WA1ZAM** #25435, will be on St. Maarten from October 22nd to November 5th. He plans to be in the CQ WW SSB contest the last weekend in October on low power. From June 14-28th, 2017, John **PJ7/W9KXQ** #20018, will operate with friends on all modes from St. Maarten.

PY0F Fernando de Noronha. Will **AA4NC** #15774, will be operating portable PY0F/AA4NC from October 17-27th 2016, especially in the CQ DX SSB contest.

PZ Suriname. Ned **AA7A** #11185, Bud **N7CW** #10375 and Lee **KY7M** #38585, will be with friends in the CQ WW SSB contest in October using call PZ5V. Website: <http://voodoocontestgroup.com/suriname-2016>.

T31 Central Kiribati. A twelve day DXpedition is being planned for October 2017 to Kanton Island. Call sign T31W. Members are: Arnie **N6HC** #29959, and Gene **K5GS** #15119. Website: www.T31W.com.

TK Corsica. Lionel **F5HNQ** #49138 and friends will be on Corsica from October 28th to November 10th. They will be in the CQ WW DX SSB Contest so good luck in finding Lionel on Ten. The call sign will be TK2A.

T30 Western Kiribati. Tom **KC0W** #67688 will be using T30COW from September 24th to October 24th on CW. He moves to the Solomon Islands from Oct 25th to Nov 26th using new call H44COW.

ZL7 Chatham Island. Haru **JA1XGI** #55571, will be on Chatham Island from November 24th to December 1st. All bands but mostly CW and RTTY. LoTW. Justin **G4TSH** #42972, will be with a group on Chatham from October 27th to November 10th using call AL7G. LoTW.

MISCELLANEOUS ITEMS & NOTES:

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

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

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

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

Propagation: I expect the solar flux to range from 70-110 the final quarter of 2016, which is the lowest range all year. The Fall equinox is on September 21st when HF propagation will shift as we start to get better signals on Ten Meters from the East and West.

The **maximum solar flux** for each month of 2016 was: Jan 115, Feb 125, March 101, April 115, May 116, June 95, July 112 and August 99. The minimum solar flux was: Jan 94, Feb 88, March 82, April 76, May 83, June 73, July 70 and August a 72.

On September 1st the solar flux was x86, the A index was x10 and K index x2. The solar flux high on August 8th was 126 points lower than the max of 125 on February 4th.

Over the next four months, look for the best conditions on: September 2-4th; October 1-7th, 28-31st; November 24- 27th and December 21-25th. For USA stations, expect a 20% chance of DX to Europe or Asia with a 40% chance of DX to S. America and the S. Pacific, later in the day. Listen to the beacons from **28.175-28.300 (especially 28.200)** so you will know where the DX path is open to in real time.

NEW 10-10 DX MEMBERS' JUNE TO AUGUST 2016:

June: None; **July:** 77492 DL4GAJ, 77493 DG8KAD; **August:** None.

Thanks to the QRZ-DX, The Daily DX by W3UR #25731 and the Ohio/Penn DX Bulletins. Info to Mike Davidson, 3518 Bellefontaine, Houston, TX 77025 USA Email: N5MT@aol.com.



From June 24. to 26. we have been to the yearly fair on the HamRadio in Friedrichshafen at the Lake Constance. The CM's from the European DX Net / Branding Iron, DL6DK and xyl DB9DF; New Waterkant, DK7LA and xyl DJ3LA; and Hanse, DL5HAN and xyl DL5HCN and also DL8YBM and his xyl Irene have been there.

On Saturday June 25. we have had a table net as usual and 61 Stations joined the meeting. Two stations have been so interested in 10-X that they joined to us and wanted get a number. WE have had much fun together and are looking forward to the next year and hope for better conditions ! Hope you are well and we can hear you.

Vy 73 Peter, DL6DK



Net Report

Bob Farrow, N6OPR
(#45715)

Net reports for 2nd Quarter 2016

MONDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
4-Apr	2	0	4-Apr	12	0
11-Apr	2	0	11-Apr	8	0
18-Apr	2	0	18-Apr	12	1
25-Apr	2	0	25-Apr	12	1
2-May	2	0	2-May	8	0
9-May	2	0	9-May	10	0
16-May	2	0	16-May	15	1
23-May	2	0	23-May	8	0
30-May	2	0	30-May	12	0
6-Jun	2	0	6-Jun	14	0
13-Jun	4	1	13-Jun	11	0
20-Jun	2	1	20-Jun	14	0
27-Jun	4	0	27-Jun	16	2

TUESDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
5-Apr	4	0	5-Apr	10	0
12-Apr	4	0	12-Apr	10	1
19-Apr	4	0	19-Apr	10	0
26-Apr	4	0	26-Apr	6	0
3-May	4	0	3-May	9	2
10-May	0	0	10-May	7	1
17-May	5	0	17-May	10	1
24-May	3	0	24-May	8	0
31-May	6	1	31-May	9	0
7-Jun	7	3	7-Jun	11	0
14-Jun	12	1	14-Jun	8	0
21-Jun	10	1	21-Jun	10	0
28-Jun	8	0	28-Jun	11	0

WEDNESDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
6-Apr	3	0	6-Apr	6	0
13-Apr	3	1	13-Apr	7	0
20-Apr	2	0	20-Apr	8	0
27-Apr	5	0	27-Apr	7	0
4-May	2	0	4-May	4	0
11-May	9	1	11-May	10	0
18-May	4	0	18-May	9	0
25-May	2	0	25-May	7	0
1-Jun	4	0	1-Jun	5	0
8-Jun	10	2	8-Jun	8	0
15-Jun	4	0	15-Jun	11	0
22-Jun	2	0	22-Jun	7	0
29-Jun	21	4	29-Jun	8	0

THURSDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
7-Apr	2	0	7-Apr	0	0
14-Apr	4	0	14-Apr	0	0
21-Apr	5	1	21-Apr	0	0
28-Apr	2	0	28-Apr	0	0
5-May	2	0	5-May	0	0
12-May	3	1	12-May	0	0
19-May	2	0	19-May	0	0
26-May	6	0	26-May	0	0
2-Jun	6	1	2-Jun	0	0
9-Jun	4	0	9-Jun	0	0
16-Jun	8	1	16-Jun	0	0
23-Jun	8	0	23-Jun	0	0
30-Jun	5	0	30-Jun	0	0

FRIDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
1-Apr	4	1	1-Apr	0	0
8-Apr	12	4	8-Apr	0	0
15-Apr	4	0	15-Apr	0	0
22-Apr	4	0	22-Apr	0	0
29-Apr	4	0	29-Apr	0	0
6-May	10	0	6-May	0	0
13-May	4	0	13-May	0	0
20-May	3	0	20-May	0	0
27-May	6	1	27-May	0	0
3-Jun	6	0	3-Jun	0	0
10-Jun	8	1	10-Jun	0	0
17-Jun	4	1	17-Jun	0	0
24-Jun	12	0	24-Jun	0	0

SATURDAY NETS

28.38 MHz			28.80 MHz		
DATE	TOTAL	NO 10X#	DATE	TOTAL	NO 10X#
2-Apr	2	0	2-Apr	2	0
9-Apr	2	0	9-Apr	0	0
16-Apr	2	0	16-Apr	0	0
23-Apr	2	0	23-Apr	0	0
30-Apr	2	0	30-Apr	0	0
7-May	2	0	7-May	0	0
14-May	2	0	14-May	0	0
21-May	2	0	21-May	0	0
28-May	5	0	28-May	0	0
4-Jun	10	3	4-Jun	0	0
11-Jun	4	0	11-Jun	0	0
18-Jun	4	0	18-Jun	0	0
25-Jun	6	0	25-Jun	0	0

QSL Bureau News

There are still a large number of unclaimed QSL cards at the QSL Bureau. If you are not certain that you have SASEs on file or if you wonder if you have any QSLs at the bureau, go to the 10-10 website and look for the tab labeled "RESOURCES". Under that is a tab for "QSL BUREAU". On the QSL Bureau page (near the bottom) is a box that if you type in your or any other member's call-sign will tell you the number of cards and envelopes that are on file for that station at the bureau.

Before you go to all the trouble of filling out QSLs to send to the bureau, it is a good idea to check and see if those stations have SASEs at the bureau. Otherwise the cards just sit at the bureau with no way to deliver them to their owners.

You do not have to be a "paid up" member to use the bureau. It is open for any amateur who has a 10-10 number. Also, the ham that you are sending a QSL to must also have a 10-10 member. You can actually make QSOs with other 10-10 members on bands other than 10 meters and still use the bureau.

Please direct all questions/comments to the QSL Bureau Manager. Terry Webb, at n0twterry@yahoo.com.

Use the following address to send QSLs and envelopes to the Bureau.

Terry Webb
1103 Fulford Road
Monticello, FL 32344-4352

First Licensed Before 1992?



Licensed today?

Then you should join these
distinguished amateurs!

To Join or Renew visit:

www.qcwa.org/join-renew.php

For more information contact
gm@qcwa.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

TOP TEN HONOR ROLL

No.	CONTACTS	CALL	10-10#
1.	24600	WA5JDU	3017
2.	11700	K0PV	9902
2.	11700	N5XZ	4530
4.	11200	DL8YBM	36109
5.	10500	N1API	25468
6.	10000	K6PZE	1341
7.	9800	N5DAS	35877
8.	8800	AC6FU	10937
9.	8200	K5FBS	48461
10.	8100	WB3FGU	16728

TOP TEN CLUB

No.	CONTACTS	CALL	10-10#
1.	10100	WD0SFT	37933
2.	4400	K6MQ	K6MQ
3.	3000	DL0X	DL0X
4.	2100	W8PGW	W8PGW
5.	1800	W1NRG	W1NRG
6.	1200	NM5MD	NM5MD
7.	1100	W4MNM	W4MNM

1000+ MILESTONE BARS

4700 BAR

NO.	CALL	10-10#
121	N0TW	36547

7900 BAR

NO.	CALL	10-10#
42	N6OPR	45715

W.A.S.

NO.	CALL	10-10#
2488	WA2HMM	40510

80 COUNTRIES

NO.	CALL	10-10#
83	KA5OVO/SK	37297

10-10 Has Two Official Daily Nets
 28.380 and 28.800
 Both Run At 1800z
 Every Day Except Sunday
 There is also a CW Net on 28.125 MHz
 starting at 1800z on Saturdays
 Listen And If You Can Hear Us Join IN!!!

AWARDS MANAGERS

BAR 100-900..	Dan Morris, KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	dbmorris315@gmail.com
Bar 1000+ . . .	Marilyn Webb, WM2W, #76400	1103 Fulford Rd. Monticello, FL 32344-4352	(614) 216-5334	wm2w10@yahoo.com
VP Bar	Bob Bishchoff K4QHH #26040	180 Persimmon, Rutherfordton, NC 28139-9319	(000) 000-0000	rabisch@hotmail.com
VP WAS.	Bob Bishchoff K4QHH #26040	180 Persimmon, Rutherfordton, NC 28139-9319	(000) 000-0000	rabisch@hotmail.com
VP Lucky 13 ..	Dan Morris KZ3T #41015	3162 Covington Way, Lenoir NC 28645	(828) 728-5049	dbmorris315@gmail.com
WAC	Kevin Gilot, NZ1I, #72759	50 Cindy Lane Mystic, CT 06355-1404	(860) 572-6086	kevinetid@tvconnect.net
Counties	Brad Kimble, K0DBK #55192	3855 66th St. E., Inver Grove Hts, MN 55076-2222	(651) 450-1173	kzerodbk@gmail.com
Countries	Mike Davidson, N5MT #24949	3518 Bellefontaine St. Houston, TX 77025-1310	(713) 668-8408	N5MT@aol.com
CW.	Lee Zalaznik, KI6OY #50948	334 Olivina Ave., Livermore, CA 94551-6137	(925) 455-0361	lee.zalaznik@sbcglobal.net
Digital.	Mel Sojka, KD5DE #33513	353 Atlantic Ave., Shreveport, LA 71105-2909	(318) 861-7012	kd5de@nwia.com
Mobile	Bob Bishchoff K4QHH #26040	180 Persimmon, Rutherfordton, NC 28139-9319	(000) 000-0000	rabisch@hotmail.com
OM/XYL.	Marcus Lieberman, KM5EH #71103	2300 Hurley Drive NW, Albuquerque, NM 87120-1013	(505) 836-1724	buckml@lobo.net
WAS	Eva Donaldson, WB0CON #53964	12933 W Montana Drive, Lakewood, CO 80228-4244	(303) 989-0475	wb0con@comcast.net
WPX	Ed Bryant, KM5FF, #50356	9001 Sunbow Ave SW, Albuquerque, NM 87121-8851	(505) 934-2100	elbble@gmail.com
GB Counties ..	Mike Crawshaw, G4BLH #18446	Moved - New address coming	No Phone	g4blh@zen.co.uk
Scouts	Rex Landreth, KD6FEC #77131	30 Alida Road, Braintree, MA 02184	No Phone	kd6fec@gmail.com

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.

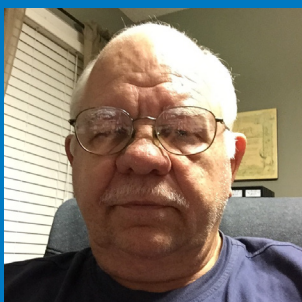
LOYAL..... offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

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.



QSO Parties

Dan Morris, KZ3T
(#41015)

2016 OPEN SEASON QSO PARTY

JUNE 4-5

TOP TEN

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
1. W4ADB	0	22	3	3	65
2. WA2HMM	14	13	1	2	51
3. LU1BJW	11	7	2	4	47
4. KD5DE	1	2	0	5	25
5. AA5BE	5	6	1	0	20
6. W4KRN	0	5	3	0	19
7. KZ3T	2	4	0	2	18
8. K5CC	0	3	0	1	10
9. K9DEB	1	0	1	0	4
9. KD5HIP	1	0	1	0	4
9. KR7RK	0	0	0	1	4
9. ZL3TE	0	0	0	1	4
10. KA5VZG	1	1	0	0	3

CALL AREA ORDER

CALL AREA 2

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
WA2HMM	14	13	1	2	51

CALL AREA 4

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
W4ADB	0	22	3	3	65
W4KRN	0	5	3	0	19
KZ3T	2	4	0	2	18
KA5VZG	1	1	0	0	3
N3GTY	0	1	0	0	2

CALL AREA 5

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
KD5DE	1	2	0	5	25
AA5BE	5	6	1	0	20
K5CC	0	3	0	1	10
KD5HIP	1	0	1	0	4

CALL AREA 7

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
KR7RK	0	0	0	1	4

CALL AREA 9

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
K9DEB	1	0	1	0	4

QRP

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
N3GTY	0	1	0	0	2

COUNTRY ENTRIES

ARGENTINA

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
LU1BJW	11	7	2	4	47

NEW ZEALAND

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL
ZL3TE	0	0	0	1	4

CLUB ENTRIES

CALL	W/O #	W/1 #	W/2 #	W/3 #	TOTAL	OPS
ZY5A	5	0	0	0	5	PU5KPS

2016 SPIRIT OF 76 QSO PARTY**July 4 - 10****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. KD4BVG	64773	17	45	79
2. N4ZCG	56067	22	7	51
3. N1API	25468	15	16	46
4. N5MT	24949	20	1	41
5. N3GTY	50585	17	3	37
6. KJ4RV	37776	14	1	29
7. KD5HIP	71476	9	1	19
8. KW4BG	47350	8	0	16
9. KZ3T	41015	3	7	13
10. K5CC	50708	6	0	12
10. N5DTT	73679	6	0	12

CALL AREA ORDER**CALL AREA 1**

CALL	10-10#	CTX W	CTX WO	TOTAL
N1API	25468	15	16	46

CALL AREA 3

CALL	10-10#	CTX W	CTX WO	TOTAL
WA3GM	46927	4	0	8

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
KD4BVG	64773	17	45	79
N4ZCG	56067	22	7	51
N3GTY	50585	17	3	37
KJ4RV	37776	14	1	29
KW4BG	47350	8	0	16
KZ3T	41015	3	7	13

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
N5MT	24949	20	1	41
KD5HIP	71476	9	1	19
K5CC	50708	6	0	12
N5DTT	73679	6	0	12

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
K9LGE	74960	2	2	6

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
N3GTY	50585	17	3	37

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
POSSUM TROT	5	146
HOUSTON SHOT	3	94
CASTLE CRAIG	2	92
NORTH GEORGIA	1	79
CITY OF LIGHTS	1	6

CLUB ENTRIES

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
W1NRG	29650	15	16	46	N1API
NM5H	68588	20	1	41	N5MT

2016 SUMMER PH QSO PARTY**August 6-7****TOP TEN**

CALL	10-10#	CTX W	CTX WO	TOTAL
1. N5XZ	4530	265	270	800
2. N5MT	24949	121	86	328
3. WG5H	77342	85	43	213
4. K8DEL	2978	65	49	179
5. WM2W	76400	69	39	177
6. NC0B	74875	65	27	157
7. DL6DK	39944	66	19	151
7. DB9DF	74506	66	19	151
8. KJ4RV	37776	57	27	141
9. N6OPR	45715	51	32	134
9. KD4BVG	64773	47	40	134
10. F6BXQ	25912	41	49	131

CALL AREA ORDER**CALL AREA 0**

CALL	10-10#	CTX W	CTX WO	TOTAL
NC0B	74875	65	27	157
K0FNI	5591	15	6	36
KA0HZP	31562	17	0	34
W0RTV	13962	14	0	28
KI0J	75715	12	0	24
KB0ARZ	48754	2	0	4
KD0CVZ	75507	1	0	2

CALL AREA 1

CALL	10-10#	CTX W	CTX WO	TOTAL
N1YKH	70147	6	0	12

CALL AREA 2

CALL	10-10#	CTX W	CTX WO	TOTAL
WA2HMM	40510	11	2	24
WA2SUH	407	4	9	17
W2VTV	71275	2	0	4

CALL AREA 3

CALL	10-10#	CTX W	CTX WO	TOTAL
K3TC	33876	13	8	34
WW3MM	39524	4	0	8

CALL AREA 4

CALL	10-10#	CTX W	CTX WO	TOTAL
WM2W	76400	69	39	177
KJ4RV	37776	57	27	141
KD4BVG	64773	47	40	134
N4ZCG	56067	42	13	97
N4ANV	18712	34	14	82
N4ERM	34524	34	6	74
W4KRN	66628	16	2	34
KA5VZG	46596	16	0	32
KW4BG	47350	16	0	32
AK4YS	75328	15	1	31
KI4EZL	74359	11	2	24
KK4AMR	76031	10	1	21
KX5U	34669	7	3	17
KU4W	20986	6	1	13
W4ADB	77445	3	2	8
N3FNE	52799	3	1	7
KZ3T	41015	3	0	6
N4LZ	30439	2	0	4

CALL AREA 5

CALL	10-10#	CTX W	CTX WO	TOTAL
N5XZ	4530	265	270	800
N5MT	24949	121	86	328
WG5H	77342	85	43	213
KM5MS	75610	43	35	121
W5TKZ	76490	33	1	67
AA5BE	76207	24	16	64
NS5R	36388	28	5	61
W5RH	75968	25	4	54
KG5LRP	77474	23	2	48
KA5VVD	42188	18	5	41
N5DTT	73679	18	1	37
AJ4F	39439	12	4	28
NR5Q	76939	13	0	26
K9GEM	75992	12	1	25
KD5FBA	77047	11	0	22
K5GJQ	76862	10	0	20
K5CC	50708	8	0	16
K5IZO	74728	7	2	16
KD5HIP	71476	7	0	14
AD5IF	73372	7	0	14
N5AF	1919	3	1	7

CALL AREA 6

CALL	10-10#	CTX W	CTX WO	TOTAL
KE6FQC	69047	6	4	16
AB6QM	63114	1	1	3
AD6GE	36627	1	0	2

CALL AREA 7

CALL	10-10#	CTX W	CTX WO	TOTAL
N6OPR	45715	51	32	134
W7MC	69078	18	6	42

K1GJQ	74866	14	0	28
K7JP	69401	10	0	20
WA7RR	74424	10	0	20
KR7RK	63324	7	2	16
W7RTL	74645	6	0	12

CALL AREA 8

CALL	10-10#	CTX W	CTX WO	TOTAL
K8DEL	2978	65	49	179
W8PJY	14574	40	10	90
K8IZK	73889	14	2	30
KC0RBV	77375	10	1	21
KJ8O	75942	9	1	19

CALL AREA 9

CALL	10-10#	CTX W	CTX WO	TOTAL
W9AQL	60273	41	26	108
KC9EOQ	74609	9	0	18
WB8RFB	10002	5	0	10
N9VPV	75563	4	0	8

QRP

CALL	10-10#	CTX W	CTX WO	TOTAL
AD5IF	73372	7	0	14

COUNTRY ENTRIES**ARGENTINA**

CALL	10-10#	CTX W	CTX WO	TOTAL
LU1BJW	39329	12	2	26

FRANCE

CALL	10-10#	CTX W	CTX WO	TOTAL
F6BXQ	25912	41	49	131

GERMANY

CALL	10-10#	CTX W	CTX WO	TOTAL
DL6DK	39944	66	19	151
DB9DF	74506	66	19	151

NETHERLANDS

CALL	10-10#	CTX W	CTX WO	TOTAL
PA2NJC	30903	33	0	66

PANAMA

CALL	10-10#	CTX W	CTX WO	TOTAL
HP1RIS	75617	39	26	104
HP1ALX	36163	4	0	8

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
HOUSTON SHOT	15	2026
BRANDING IRON	5	645
POSSUM TROT	9	500
CATT	2	269
MLB	1	134
NORTH GEORGIA	1	134
ARIZONA DESERT	5	130
NEANDERTHAL	1	66
GATEWAY	2	62
REPUBLIC OF TEXAS	1	61
TANGO	1	26
CITY OF LIGHTS	1	18
CASTLE CRAIG	1	12

CHAPTER ENTRIES

CHAPTER	LOGS	PTS
HOUSTON SHOT	15	2026
BRANDING IRON	5	645
POSSUM TROT	9	500
CATT	2	269
MLB	1	134
NORTH GEORGIA	1	134
ARIZONA DESERT	5	130
NEANDERTHAL	1	66
GATEWAY	2	62
REPUBLIC OF TEXAS	1	61
TANGO	1	26
CITY OF LIGHTS	1	18
CASTLE CRAIG	1	12

CHECK LOGS

CALL	10-10#	CTX W	CTX WO	TOTAL	OPS
NU1O	77093	48	25	121	0
HP1AC	10107	33	17	83	0
W4LID	0	13	1	27	0
KE5TQA	0	9	2	20	0
W7ASC	73831	10	0	20	K7JP
NM5WB	0	9	1	19	0
K2HT	68440	5	0	10	0
K9MCK	0	4	0	8	0
K4WLG	0	4	0	8	0

ARTICLES

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

10-10 SCHOLARSHIP FOUNDATION SUPPORTERS

We encourage all of our members to support the 10-10 International Net Scholarship Foundation. Our goal has always been to fund our scholarships entirely through member donations. For 2016 we are supporting five \$2000 scholarships. See the bios of the winners in this issue. At the Scholarship Foundation meeting in June, the Foundation Board voted to guarantee the funding for five \$2000 scholarships to be awarded in 2017. The Foundation was created in 2001 and is a qualified 501(c)(3) tax exempt organization and contributions are tax deductible. Why not consider a donation as a Chapter or an individual in memory of a fellow ham or loved one. This quarter we received a donation from the Suwannee Amateur Radio Club, #75836 in Live Oak, FL. Dr. Arnold Kalan, WB6OJB, #70675 donated in the memory of Ann Anton, KE6OIO, #68997. If you haven't donated before, we want you to know that all donations are appreciated and they do add up. At the time you make a donation to your favorite charity, please consider a donation to the 10-10 Scholarship Foundation. **If you have an employer matching program, please let us know.** Taras Sochan, K2ERD, #74082 sent in a donation which will be matched by his employer.

If you make a donation of \$15 or more you will receive the current year pin. For a donation of \$25 or more we will also send you one of the older 10-10 pins. If you do not want a pin and want the maximum amount of your donation to go to the students, please let me know (wa2suh@aol.com). To pay by credit card see payment information on Page 31 or send your check to me or the Data Manager. Our addresses can be found on Page 30.

The members listed below became 10-10 Scholarship Foundation Supporters during the months of June, July and August and we appreciate their support.

Platinum (\$1000 or more)

None

Gold (\$500 to \$999)

K6RDK..... David Smith 65812

Silver (\$100 to \$499)

WB6OJB..... Dr. Arnold Kalan 70675
K2ERD..... Taras Sochan 74082

Bronze (Up to \$99)

WB4WXE..... Howard Sine 07010
WA6POZ Gerry Gross 21274
K3HS Harry Schools 24553

Bronze (Continued)

WB2UKO..... Joseph Milazzo 33392
W4JAG James Griffin 42577
K4JRD Charles Hubbard 45362
KD4AMP Jon Beaver 59739
KD4BTU Patsy Beaver 59754
AD6PV..... Harry Ley 62068
DK7LA Wolfgang Dethlefs 66048
N4SVC..... Suwannee ARC 75836
VE2VAX..... Normand Labossiere 77382

10-10 SCHOLARSHIP APPLICANT INFORMATION

Each year the 10-10 International Net, through our nonprofit corporation, the 10-10 Scholarship Foundation, funds five \$2000 scholarships, which are administered on our behalf by the Foundation for Amateur Radio (FAR). It is suggested that every 10-10 member encourage qualified college-bound amateur radio operators to take advantage of this opportunity. The five most recent winners are featured in this issue of the 10-10 News and on the 10-10 website. Over the past 29 years, 10-10 has funded 108 scholarships valued at \$127,000.

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. Completed 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

TEN 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. wj5o@amsat.org

73 Bill WJ5O

IARU Region 2 HF Beacon Coordinator

<http://www.qsl.net/wj5o/bcn.htm>

10-10 International Net, Inc. - 2016 Scholarship Winners



CHRISTOS KAKOUTAS
5B4AIP

My name is Christos Kakoutas, and I come from the island of Cyprus, located in the eastern basin of the Mediterranean Sea. I was born in 1993 at the city of Limassol, on the south coast of the island, and in 2005 I was admitted to a highly selective secondary education school in the capital of the island Nicosia, the English School of Nicosia. There I joined the English School Radio Club, 5B4ES, where older students taught the electronics and operating theory behind this exciting and mysterious hobby. Due to the lack of other licensed operators at the time, I decided to start work in order to obtain an operating license. With the help of some alumni of 5B4ES, I managed to acquire my CEPT (The European Conference of Postal and Telecommunications Administrations) license (the European equivalent of a United States Extra Class license) at the age of 15. I received my 5B4AIP call sign and C46W special contest call sign, and have been an active Radio Amateur ever since. I enjoy very much communicating with people using transceivers and aerials and constructing such equipment, but I am most fascinated by contests, where the feeling of competing against everybody else in the world thrills me.

Chairing 5B4ES from 2009 until graduating, as members of the Cyprus Amateur Radio Society (CARS) we co-operated with the Cypriot Scouts Organization, and introduced boy scouts to Amateur Radio, helping them make their first QSOs during Jamboree-on-the-Air, an annual international scouting event. Furthermore, while continuously collecting funds and improving our QTH, we organized various equipment projects and participated in many contests, with our most glorious moment being the 2011 All Asian DX Contest, where I scored 2nd place in the world and 1st in the under-18 SOSTAB HP category. Upon graduation from high school in 2012, I was enlisted for my compulsory national service. Upon completion of my military service in 2014, I matriculated at Trinity College, University of Cambridge, England, to study Engineering. There I joined G6UW, the Cambridge University Wireless Society, and serve as its secretary since May 2015. As well as operating in various contests with M4A, I was fortunate enough to also participate in the 2015 IARU YOTA Conference, which took place in Italy. I am currently also a member of the ARRL, RSGB, CARS, the Nicosia Club (5B4NC) as well as the Nicosia Contest Group (C4A).

I would like to express my most sincere gratitude to the 10-10 International Net and all the people behind it. I also won your scholarship in 2014. With this scholarship, I can allow myself to manage my economics better and be able to focus on my studies, exploit my course to its full potential and aim for academic success and excellence. Besides being indebted by this act of kindness, I am honored for receiving this academic scholarship, and thus determined to improve my activity in the hobby, the HF bands and 10 meters in particular.



MATHIAS GIBBENS
K0WBG

I wish to express my most sincere thanks for being selected as a recipient of the 10-10 International Net Scholarship. Receiving this financial aid goes a long way to helping me cover my educational expenses for this upcoming school year. It provides me a little bit of "breathing room" as I try to make ends meet without taking out additional student loans. While originally hailing from Minnesota and receiving a BS in Computer Science from Bethel University, I am currently a graduate student working on my PhD in the Department of Computer Science at The University of Arizona, located in Tucson. My research is focused on new network protocols and distributed computing in a data center environment, specifically the Apache Hadoop MapReduce framework. Once I finish my degree, I plan to take an industry position engineering solutions to real-life problems.

After several years of interest, I finally got my Amateur Radio license in May 2014, and upgraded to Extra that December. I knew a few people in college who were licensed and helped introduce me to the hobby. However, it wasn't until a few years later that I finally took the plunge and got my ticket. Since getting licensed, I have been actively involved with the local Amateur Radio Community here in Tucson. I am the current president of the University of Arizona Amateur Radio Club (K7UAZ) and am also a Volunteer Examiner with the Radio Society of Tucson's VE team. While I am not always able to get my home station on the air as frequently as I would wish, playing on the radio is a great way to spend a weekend. I have also been involved in helping to plan Field Day activities, deploying a 2.4Ghz mesh project using the AREDN firmware, and assisting a group of local 4H students with a successful direct ARISS contact last summer. Recently I have been playing quite a bit with digital modes and enjoying some of the unique modes available. In addition to all the different modes of communication available as a licensed operator, being active with Amateur Radio has greatly helped expand my understanding of electronics and electrical engineering. The hands-

10-10 International Net, Inc. - 2016 Scholarship Winners

on experience has helped transform a theoretical understanding from my math and computer science background to actual experience and understanding. Performing repairs and getting previously broken equipment working properly again is tremendously satisfying!

Outside of my activities with Amateur Radio and academic research, I enjoy the great sunny weather that we have in Tucson. With over 350 sunny days a year, there are a lot of outdoor activities all year round. I bike quite a bit and love to escape the summer heat by going up to the mountains on light hiking trips. I am an avid reader, and especially enjoy The Lord of the Rings and JRR Tolkien's Middle-earth Legendarium. I also volunteer regularly at two local non-profits here in town: the Hermitage No-Kill Cat Shelter and the Southern Arizona AIDS Foundation. I believe it is important to give back to the community and help others, and volunteering is a great way to do that. Receiving this scholarship greatly assists me as I work to fund my continuing education. In conjunction with a department stipend I expect to receive, this scholarship will allow me to cover all my education related expenses this coming year. Thank you again!



KIMBERLY FISHER
KF3ASL

I am particularly grateful for the scholarship 10-10 has awarded me through the Foundation for Amateur Radio because funding at the grad school level is extremely difficult to find, and this generous scholarship will actually provide tuition for two classes of my Master's degree, which means (as a working adult who self-funds what scholarships don't cover) that I can continue on for a longer period of time before taking a break to save up for the next round of classes. As you will see from the my bio, I began in ham radio simply to add to my arsenal of skills that would be useful during a disaster, but the assistance my ham friends have provided in funding my educational endeavors was an unexpected benefit and has been generous beyond my wildest dreams. I am most appreciative to receive so much help in making the dream of getting the Master's degree come to fruition.

I am a 53-year-old amateur radio operator, Technician license KF3ASL. I completed my Bachelor's degree in Emergency and Disaster Management magna cum laude from American Military University in November of 2015 and began the Master's program in Emergency and Disaster Management from the same university in March of 2016. Though I had no technical/mechanical background prior to starting with amateur radio, since getting my Technician license I joined the Columbia Amateur Radio Association in Columbia, Maryland, and have been an active member not only at monthly meetings but supporting several of the club's public service events on a regular basis. I have participated in the satellite tent at Field Day events over the past several years, getting a contact with the International Space Station for local group W3AO year before last.

I am a member of Epsilon Pi Phi (honor society for emergency and disaster management), Omega Sigma Sigma (Order of the Sword and Shield, honor society for emergency management and homeland security), Beta Sigma Delta (honor society for management majors), and Golden Key International (honor society for academic excellence due to GPA of 3.821). I also joined the International Association of Emergency Managers (IAEM) as a student member while still an undergraduate, and was chosen as a speaker at IAEM's EMVision Talks for their national meeting in November of 2015 in Nevada.

In addition to my academic studies in Emergency and Disaster Management, I enjoy amassing skills that would make myself useful in various capacities during a disaster. I am an American Sign Language interpreter (KF3ASL) and I use my sign language and ham radio skills in support of training exercises and public service events as a member of the Hopkins GO Team, a rapid-response medical support team.

Due to the increase in both intensity and frequency of disasters, both natural and man-made, and the recent focus on the fact that disaster affects various segments of society unequally, I will be conducting my graduate research on mitigation of the effects of social disparity in emergency and disaster management through the application of GIS technology such as HAZUS-MH.

10-10 International Net, Inc. - 2016 Scholarship Winners



DANIEL WEBB
KK4CNQ

Thank you to 10-10 International for awarding me a scholarship. I am honored and would like to tell you a little about myself. I am a rising college freshman at Virginia Tech in the College of Engineering. Over the last four years I went to two high schools, one in the morning and one in the afternoon. The first was William Byrd High School (Vinton, Va.), where I discovered the Amateur Radio hobby and graduated as a Valedictorian. I spent half my time there, learning history, English, and other common subjects. One of the many clubs I took part in was Amateur Radio, sponsored by our school's principal, who is a ham. I joined the club in middle school and played an active role in it for seven years, upon graduation. During that time, I earned the Technician (7th grade), General

(9th grade), and Extra (11th grade) Class Licenses. I will certainly continue going back to the school to help out when I am on vacation from college. I learned many technical skills in that club that will prepare me for my career. The second high school I went to was the Burton Center for Arts & Technology Center for Engineering (Salem, Va.). While there, I learned STEM subjects and confirmed that engineering is the career path for me. I possess certain essential skills that engineers need to have, such as problem solving skills. These will contribute to my success in the future.

In college, I will pursue undergraduate research to advance my schooling beyond what is the typical curriculum. I want to also be able to start working as an engineer before I graduate, holding internships at companies in the area to figure out what I like the best. My post-secondary career will contain a lot more than just going to college. I also hope to start a small photography business in the future, as taking photos is my favorite pastime. One thing I hope to accomplish with the photography business is meeting many people and bringing joy to their lives by taking pictures for them. Throughout high school, I participated in many extra-curricular activities. One organization that has impacted my life since 2005 is the Boy Scouts of America. This past year I earned my Eagle Scout rank, upon completion of my Eagle Scout project. My project was to plan and build a 20'x 25' storage building for a local church, which ended up taking over 500 man hours of construction. I was the Vice-President of our school's Leo Club, a service organization that worked with the Vinton Lions Club to give back to others. I was a member of the school's Academic Team for four years, winning the district title this past year. I mentored freshman students and served as a math tutor for pre-calc. There were many others but those above are some that influenced me the most. In short, I stayed busy during high school.

I hope the details above give you a glimpse into my life and reveal my dedication to service for others, hard work in everything that I do, and drive to achieve the unthinkable as an engineer. Thank you again for your generous award.



TOM K. JOSE
VU2TO

Thank you, 10-10 International and the FAR Scholarship Committee for selecting me for a \$2000 scholarship this year. This will certainly help me with my studies.

I am currently pursuing my 1st year Bachelor of Technology education with an emphasis on Electronics and Communications at Swamy Vivekananda Institute of Technology, Hyderabad, India. I grew up in an ecosystem surrounded by Amateur radio operators as both of my parents VU2JOS & VU3LMS work at National Institute of Amateur Radio (NIAR). Having seen my parents and others experimenting, I got inspired to join this hobby and worked towards getting my license at a young age of 13 years. I was designated the Call Sign VU3TMO (Restricted Grade license) in 2011 and upgraded to VU2TO (General Grade license) in 2015. I am interested in participating in contests and received many operating achievement awards from CQ USA, RSGB Great Britain, DARC Germany, JARL Japan, ARI Italy, IARC Israel, Australia, France, Poland, Ukraine, India etc. I was awarded the prestigious ARRL Diamond DXCC Award when I was 14 years old in 2012. I have also done several awareness programs for students.

On October 12, 2014 Cyclone Hud Hud hit Visakhapatnam City with wind velocity of over 175 kms per hour causing severe damage. All communications from there, including that of the police department were disrupted. The Chief of Police requested help from NIAR. It was about 600 kms from our city. Immediately under the leadership of Mr. S. Ram Mohan, VU2MYH, I along with 7 others moved in two vehicles carrying amateur radio equipment. We reached the police control room after a long drive through damaged roads and debris and raised our HF and VHF antennas on the top of the two story building. I was assigned duty at the control room while the senior members of our team moved to different locations where the police stations needed immediate connectivity. They operated from those remote areas using generators and batteries as normal power supply was cut.

10-10 International Net, Inc. - 2016 Scholarship Winners

Our communications were mainly between the police control room to other police stations through Amateur radio HF Communication and locally through VHF. This became very useful to police officers to direct other police officers and rescue teams to move to locations where the services were required. As Visakhapatnam is surrounded by tall mountains, we were not getting the stations on VHF and hence made contacts on HF. Several enquiries received from other hams about welfare of their relatives/friends were also handled by us. I received all the messages and passed them on to officials in the control room who took necessary action. We continued our operation for five more days while the police and mobile operators and telecom were trying to restore their channels. One message that I handled was about clearing a big tree that had fallen on a Jain Temple causing hardship to the devotees. By the sixth day of the cyclone some landline and mobile communications and some repeaters of the police department were restored so that hams who are volunteers (including me leaving the college and jobs) could go back. While relieving us, the Police Chief and District Administration gave us appreciation letters. The local Jain temple people were so happy that when they came to know that I was responsible for clearing the tree and saving lives, they came to me and honored me. Reports of public service by hams were reported in the local press with many of our photographs. Once again it was proved that when everything else fails, Ham Radio works. Shortly later, the well known film star Mr. Nagarjuna interviewed me on a popular TV program about my emergency communications. This was telecast several times and by several local TV channels. I was featured in the July 2015 issue of CQ Magazine (Page 12). To our great surprise, details about my emergency communication activity during cyclone Hud Hud is now taught in the class IX English subject in the local schools. I am doing my part to propagate the hobby among the youth.

W6OI #109 ON THE AIR

REPORT FOR THE 10-10 INTERNATIONAL CLUB STATION W6OI

W6OI continues to be on the air for the various 10-10 QSO parties. Band continues to be very unfavorable! I do continue to make a couple contacts in each 10-10 QSO party, but it takes lots of calling and of course listening!

August summer phone party was a surprise with about 10 contacts all taking place on Saturday morning. All with 10-10 numbers. Otherwise the band was dead! Then a week later out of the blue the band opened in the afternoon and I made a nice PSK contact with a 10-10 member. Just takes listening. I usually watch the propagation forecasts but they can be misleading. The best way is to just listen to the noise and you can tell the difference between just a regular hiss and that noise which has some static along in the background. Then just check the beacons to see if your hearing is on track! Then back to calling anywhere from 28345 on up to about 28500. Good luck. This system works for me.

As noted in the April Newsletter, the W6OI special event has been canceled until further notice. Hope propagation improves so activity increases for our various yearly events.

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

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

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

Louise, N6ELK continues to operate W6OI on the 10-10 daily nets, which meet at 1800Z on 28.380 and 28.800. Bob, N6OPR also gives out W6OI details on the daily nets if Louise is not available.

Paper chasers working W6OI can request list from Jerry, N9AC. It is available in ML format or just plain text. Listen for W6OI!

73's Jerry, N9AC

ELECTION TIME LINE

- ☑ Call for Nominations will be printed in the January and April 2016 editions of the 10-10 NEWS.
- ☑ 1 May 2016 - Candidates must have names and bios to Nominating Committee.
- ☑ 1 June 2016 - Nominating Committee will develop slate of candidates and notify members who applied but were not selected.
- ☑ 15 June 2016 - Deadline for Petitions for Candidacy to Secretary.
- ☑ Ballots and all Candidates' bios to be printed in July 2016 edition of the 10-10 NEWS.
- ☑ 1 October 2016 - **"In Hand"** Deadline for return of Ballots.
- ☐ 1 November 2016 - Election results posted on 10-10 Web Site.
- ☐ 1 January 2017 - Newly elected officers take office.
- ☐ Election results posted in January 2017 edition of the 10-10 NEWS.

WHAT DIFFERENCE DOES HEIGHT MAKE?

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

The general rule for antennas that we always hear is "The higher, the better." Is this true? Generally speaking, and for 10 meters, the answer is "Yes" in terms of antenna performance. (The answer may be "No" in terms of tower, rotator, antenna, and cable maintenance.) Why?

"Why" always takes more time and space to answer, but the general principle is this: the higher the antenna, the lower the take-off angle. We can get a hold of the idea of "take-off angle" by looking at Figure 1. It shows one antenna,

a three-element Yagi, at heights of 22, 35, and 52 feet. These correspond to heights of $5/8$ wavelength, 1 wavelength, and $1\frac{1}{2}$ wavelength respectively. If you extrapolate these ideas to other bands, remember that the principles apply in terms of height in wavelengths or fractions thereof—not in terms of feet.

We are interested in the lowest forward lobe to the right, the direction in which the beam is pointed. That is the main lobe, where the power is greatest (or the receiving gain is greatest). The angle of maximum radiation or gain is the take-off angle. At 22 feet, the angle for this antenna is 21 degrees; for 35 feet the angle is 14 degrees, and at 52 feet the angle is 9 degrees. These same take(-off) angles would apply to almost any horizontal antennas at the same heights.

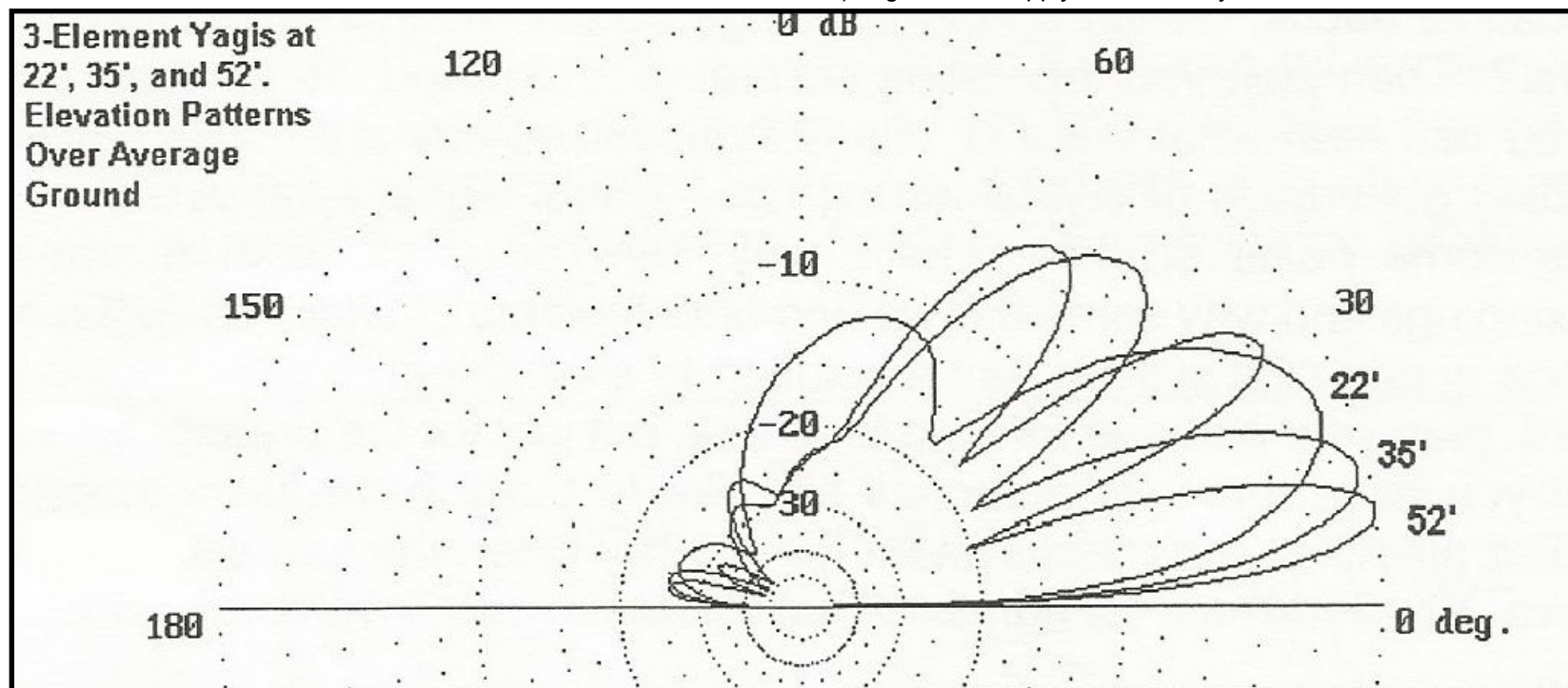


Figure 1. Take-Off Angle at Different Heights

There is a second principle to consider: propagation by way of refraction in the ionosphere. Most of the time, the longer the path to a distant station, the lower the angle at which the signal bounces between the antenna and the ionospheric (skip) layer. On 10 meters, many dx stations require an angle under 10 degrees, especially during marginal conditions.

The test antenna in Figure 1 at all three heights has some power radiated under the 10 degree angle, but obviously that power increases at this angle as we

raise the antenna height. When the band is wide open, that is, when skip is very strong, the differences may make no differences all in the ability to make long distance contacts. The differences begin to show up under marginal conditions (for example, when the bands are opening or closing) or in competitive situations, such as contests and dc pile-ups. Many DXers favor heights above 100 feet, especially for their 20 meter antennas (that is, about $1\frac{1}{2}$ wavelengths at 20, 3 wavelengths at 10).

These principles are not absolutes. Skip conditions have many variables that can alter situations. Moreover, in some applications, we may want power in the higher angles lobes. State-wide 75-meter SSB coverage conveniently calls for low antennas with high skip angles (called NVIS or near vertical incidence skip), and few of us can get a 75-meter dipole very high in terms of a wavelength. On 10, the secondary lobes of the beams are useful for using shorter skip paths.

Take-off angles do not vary much among horizontal antenna types. At very low heights (about $\frac{1}{2}$ wavelength), 3-element Yagis and quads have a couple of degrees advantage over dipoles and 2-element Yagis but the difference in take-off angles washes out a 1 wavelength antenna heights. Hence, a dipole at 100' might outperform a 4-element Yagi at 25' for some dx paths.

Height, especially at levels below 2 wavelengths, can make some subtle differences in performance as well. The gain, front-to-back ratio, and feedpoint impedance of an antenna are not constant as we raise it. Rather, for dipoles and "short" Yagis, gain peaks at about $\frac{5}{8}$ wavelength and again at $1 \frac{1}{8}$ wavelength, 10 meter heights of about 22 and 40 feet. Gain dips at $\frac{7}{8}$ wavelength, about 30 feet up. See Figure 2 for an example of this phenomenon: note the lower gain when the dipole is at a height of $\frac{7}{8}$ wavelength.

In some antenna designs, the dip may be almost a full dB below the maximum gain at favorable heights. Of course, if you have a multiband antenna, on band's maximum may be another band's minimum, so some sort of compromise is in order. These subtler differences in antenna performance also complicate antenna comparisons.

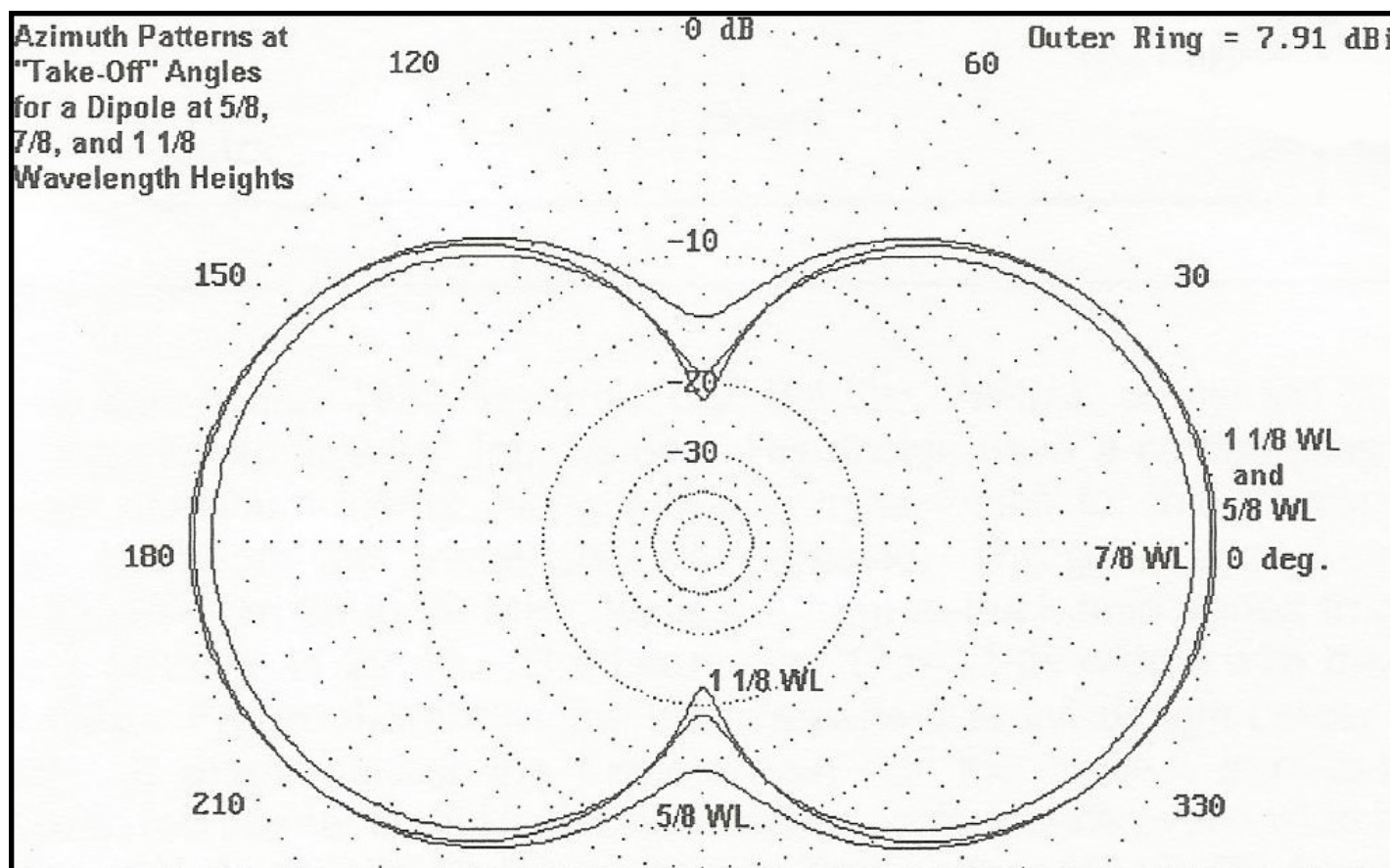


Figure 2. Azimuth Patterns at Different Heights

Front-to-back ratios in 2-element Yagi beams show a variable pattern of change, but director designs peak just where reflector designs dip and vice versa. Curves are smoother for 3-element Yagis. The ups and downs in gain and front-to-back ratio shown by parasitic beams demonstrate the complex interactions not only directly among the elements, but also with ground reflected power that plays such an important role in real antennas. The exact phase difference between the radiated power and the ground reflected power adds or subtracts from the antenna's total in both calculable and measurable ways. How the ground reflections add or subtract varies from one kind of antenna to another.

Antennas composed of 2 elements about $\frac{1}{4}$ wavelength apart and fed 180-degrees out of phase show bidirectional pattern with very significant gain over a dipole. They also display an immunity to some of the effects of height, general showing a smooth curve of gain increase with height. Another feature of these antennas is that they have a strong vertical null, that is, negligible radiation straight up. Hence, the interactions of ground reflected power with the antenna are largely confined to increasing the strength of the main lobes.

These subtler interactions, of course, do not negate the first principle of antennas. Get the thing as high as you can legally, safely, and economically maintain. Then start operating.

Meet The Volunteers

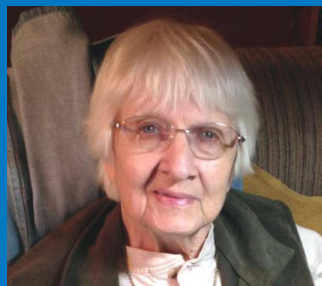
A year-long event to find and make contact with all of the people who devote time to keep 10-10 an active organization!

The goal? Make contact with each of the following volunteers during 2016

AD4RX.....	Director
AJ7B.....	Newsletter Editor
G4BLH.....	Awards - GB
K0DBK.....	Awards - Counties
K1IEQ*.....	Committee Member
K4QHH.....	Award Manager-Mobile & VP
K5BKT.....	Committee Member
K5CC.....	Committee Member
K5ERJ.....	Committee Member
K6DNR.....	Net Control
K6RDK.....	Data/ Membership Manager
K7PRZ.....	Committee Member
KA0ZPP.....	Director
KA5OVO*.....	Historian (Open)
KA5VVD.....	Committee Member
KC1BTA.....	Scout Award Manager
KC8IM.....	Net Control
KD4BVG.....	Committee Member
KD5DE.....	President
KD6FEC.....	Scout Certificate Manager
KE1HG.....	Committee Member
KE6OIO*.....	Net Control
KI6OY.....	Awards-CW
KM5EH.....	Director
KM5FF.....	Awards-WPX

KQ4PK.....	Net Control
KR7RK.....	Treasurer
KZ3T.....	QSO Party Manager
N0KDB.....	SK Manager
N0TW.....	Director
N5MT.....	Awards - DX
N6ELK.....	Net Control
N6OPR.....	Director
N7YG.....	Director
N9AC.....	W6OI Trustee
N9AVY.....	Previous Secretary
NP2MR.....	Committee Member
NZ1I.....	Secretary, Awards WAC
VA7GY.....	Committee Member
VE3MEW.....	Committee Member
W4MAA.....	Committee Member
W5DJT.....	Committee Member
W9HT.....	Committee Member
WA2SUH.....	Vice President
WA6POZ.....	Past President
WB0CON.....	Awards - WAS
WB6OJB.....	Net Control
WB9WZI.....	Net Control
WM2W.....	Awards - 1000+ Bars
WN4AMO.....	Director

* Silent Key



Silent Keys

Ruth Bartholomew, N0KDB
#48715

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
243	WA0STA	Bobby J Watts - Nixa, MO
944	VE5RC	Ian Bruce Rattray - Regina, SK, CAN
1522	NX5T	Preston J Gauthier - Ball, LA
1792	DK2VN	Manfred Broxtermann - Papiermuhle, GER
2673	W0KVO	Francis T Tretter - N St Paul, MN
4914	K3TEZ	Michael S Huhn - Annapolis, MD
5436	WY0R	Paul T Norman - Arvada, CO
5459	K4FPF	Paul H Valentino - Springfield, VA
6169	K6CIL	Kenneth E Allinson - Maysville, NC
6724	WA1PKQ	Robert D Calkins - Hampton, NH
7129	W5MRB	Mike R Bruck - Morrilton, AR
8900	WA3HFR	Gerald K Shaffner Sr - Williamstown, PA
10074	W8IQF	John R Du Mez - Holland, MI
10148	KZ2G	Robert A Mauro - Levittown, NY
11007	N1YL	Diane E Haigh - East Lyme, CT
11212	W0HIS	Angus T Morrison - Saint Paul, MN
11774	WA5MWA	Vernon L Jones - San Angelo, TX
11787	KO5K	Herschel M Glasgow - Friendswood, TX
13044	WB6JBM	Richard D Powell - Conyers, GA
13625	W5BL	Douglas A Loughmiller - McKinney, TX
14857	KG9NR	Richard E Smith - Marissa, IL
15982	KB0AG	Butch Tomoson - S Souix City, NE
17430	WA7RWJ	Andrew Yaniv Sr - Eugene, OR
17765	WA4NPU	Charles W Brock - McDonald, TN
18102	W0LQ	Ralph C Taylor - Denver, CO
20767	N8UU	Russell H Beutler, - Baldwin, MI
20898	K4NYK	Louis R Schubert Jr - Blue Ridge, GA
21143	VE6MV	Zdenek Halmo - Calagry AB, CAN
21325	WA6LOB	Herbert R Lundin - Santa Cruz, CA
22302	KB9DO	Alex P Aldrian - Milan, IL
22380	W9VM	John B Kramp - Aurora, IL
23998	W1NRK	Robert W Gardner - Westfield, MA
24016	AC8T	Vera L Brayan - Grand Blanc, MI
24921	WB5TRX	James R Eaves - Merryville, LA
24953	W4ISI	David L Hoad - Yorktown, VA
25241	WA2OCL	Donald A Davis - Waretown, NJ

10-10#	Call	Name - City, State
25755	K3SBU	Robert L Dziubkowski - Erie, PA
26229	KD4WB	Charles L Menius - Concord, NC
26550	WB2LRZ	James E Appleton Sr - Alpine, NY
26954	W7ATX	Ronald G Holscher - Gresham, OR
27530	WD5BFO	Thomas A Gilbreath Sr - College Station, TX
28239	WB0BET	Leonard E Everett - Loveland, CO
28440	W5JX	Dean C Cole - Deming, NM
29668	KA1CCG	Alma A Gordon - Steuben, ME
29889	N0LKX	Linda M Lottes - Glyndon, MN
31236	KA4UEM	Katherine E Sewell - Jackxon, GA
31676	WA6IRN	Sherman M Stanley Jr - Twin Falls, ID
32080	W4YWW	William V Williams Jr - Brunswick, GA
32097	N4FWI	Howard R Allison - Pinson, AL
32566	KA1WF	Edwin D Walston - Cheshire, CT
33245	KD4UY	James L Reed - Marietta, GA
33313	KC2LD	Elaine M Donnell, - Carneys Point,, NJ
33568	K5AY	Robert E Blair - Richardson, TX
33596	W5SOE	Paul I Kaufman - Houston, TX
33856	W3GJS	George J Swoyer, - Denver, PA
33900	W1RFL	Thomas E Hooper - Old Lyme, CT
33968	K1VM	George W Doyle - Cumberland, RI
35425	KA8JFE	Jack A Koch - Cincinnati, OH
36393	KD2AQ	Benjamin Fainberg - Teaneck, NJ
37005	N9DER	Ronnie E Gilmer - Cumming, GA
37084	KA9MWK	Robert J Tennant - Columbia City, IN
38551	WY7Z	Harry W 'Pete' Petersen - Bellevue, WA
38783	N2DFN	John 'Jack' E Graham - Niagara Falls, NY
39481	AA4PR	Joseph B Evans Sr - Saint Pauls, NC
39773	W4GIO	Jerome Layfield - Fortson, GA
40007	W9RET	Ray E Taylor - Carmel, IN
40031	K5CDH	Robert E French - Robinson, TX
40071	NR5Q	Bruce C Vaughan - Springdale, AR
42345	KE9GG	Donald L Kozlovsky - Sturgeon Bay, WI
42898	N6VUG	Michael G Lewis - Clovis, CA
43963	KB2DJD	Daniel 'Chris' Whelan - Delanson, NY
44139	WB3ALF	James D Hay Jr - West Chester, PA
44852	K5ZRK	Larry D Jones - Sandersville, MS
45411	WG8R	John M Wierzbicki - Huntington Woods, MI
45493	K8WXW	Robert W Mallory - Blissfield, MI
45792	N6RDG	Robert E Stone - San Jose, CA
46621	KA1PJX	Donald W Keene - Weymouth, MA
46648	N1FIO	Richard M Daniel Jr - Boxford, MA
49595	KW4BC	Bill C Lynn - Tullahoma, TN
51444	K4UEK	O P Stancer - Bedford, VA
52180	KB5DRZ	Wallace B Garner - Big Spring, TX
52221	W9TOM	Thomas R Nave - Indianapolis, IN
52927	WA0RN	Raymond F Nelson, - Overton, NE

10-10#	Call	Name - City, State
53473	W3KHZ	Harry A Brown Jr - Fallston, MD
55028	N1FIT	Alice M Miner - Mansfield Center, CT
55247	WA0KFP	Larry K Wheeler - Lincoln, NE
55869	N5PK	Jackie H Lemons - Las Cruces, NM
59786	WA4SGR	Jack H Atkins Jr, - Corryton, TN
59853	KB8EHJ	Carl R Aikin Sr - Branchland, WV
59866	N8EQR	Wallace P Davidson Sr, - Gobles, MI
60192	NM1P	Jean A Cassidy - Trumbull, CT
60473	W4PWF	Charles D Bodson - Arlington, VA
61368	K5VC	Bob A Austin, Sr - Brownsville, TX
62002	KD6CYS	Claude H Gunnensen - San Diego, CA
64966	N6QIH	Larry J Mitchell, - Draper, UT
65411	KA1MLC	Charles J Mc Carthy - Atkinson, NH
65503	KG2BG	Stanley R Gordon - Scotia, NY
66077	9A2WJ	Milan Daki Drlic - Zagreb , Croatia
68735	N3FWC	Allan C Tillander - Harmony, PA
68785	W1ERF	Anthony E Simeone - Pittsfield, MA
68997	KE6OIO	Dorothea Ann Anton - Garden Grove, CA
73554	WA1ZDV	Jack J Barbera Jr - Holderness, NH
74349	W3QH	John T Siemon Sr - Pittsburgh, PA
75135	N6SAY	Hugh L Headlee Jr - Diamond Bar, CA
75138	AI4TN	William C Finch Jr - Greenville, NC
76389	N5WNF	Bob D Foard - Van Buren, MO
76510	W9REC	Robert E Chalmers - Peru, IN
76672	KE6PPE	Larry R Murphy - Salinas, CA
77050	KJ6VXD	Donald E Hunt - Redlands, CA

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

Ruth 73/88, N0KDB #48715

Ann, KE6OIO #68997

Hello Everyone. We had a luncheon August 4th 2016. We would like to dedicate this lunch to Ann KE6OIO #68997 who is no longer with us. A group of hams have been having lunch at this restaurant for many years. We had a great turn out. All tables were filled and some booths also. Many friends came to share their memories of Ann. A friend of Ann's brought her PC which had many pictures of Ann from a baby to adulthood. It was so nice to have seen those pictures. Ann called the net on Tuesday on 28.800 MHz. She also called the net on 40 meters CW. She was also a Queen Mary operator – W6RO Long Beach CA.

Ann would listen to her husband Frank send the code. She said I need to learn that so I can become a ham. She did and became one of the best. Ann had surgery. We all thought she was doing fine. She came to the next luncheon we had. Even went to the mountains. To the cabin she had in Big Bear. Then she had a setback. She had a stroke and was sent to a place to have therapy. The infection set in. Ann passed away on July 26th. She went to sleep and did not wake up. She is in a better place now and will be missed.

Ann had many talents. She rode her bicycle for miles, walked for miles and played tennis. She was also a wood carver. She carved many figures among other things. She entered her carvings in many contests and won many prizes. Ann gave Doc WB6OJB one of her carvings. It was a cowboy. Doc will always treasure it. Ann and Doc had many CW QSOs. They will be missed.

Take care Ann. We will all miss you. Bye for now from all your friends

Louise N6ELK #36654

WHERE DOES GAIN COME FROM?

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

Earlier (Issue 3 – 2015) we looked at 3 antennas modeled in free space: a dipole, a 2-element Yagi, and a 3-element Yagi. All were made from aluminum tubing and all were monoband antennas with no traps or other lossy components. The patterns we showed made it clear that the 3-element Yagi had the most gain and the highest front-to-back ratio. But that does not make it very clear from where the gain comes, given a constant transmitter output.

Figure 1 repeats the azimuth patterns to refresh our memory. An azimuth pattern is like standing over the antenna and seeing its radiation. For free space

patterns, we use 0° elevation, since the pattern is strongest straight on. Over ground, we generally use the elevation angle of maximum radiation (also called the “take-off” angle) for general comparisons. The patterns in the figure are for antennas at a height of 1 wavelength, and all three have a take-off angle of 14 degrees.

The azimuth pattern does not give a whole picture of where the power is going. It does show that the beams project more power in the forward direction than the dipole, while “robbing” power from the rear. In reception terms, signals from straight ahead are strongest and weakest to the rear. However, they are weakest of all off the sides of the antennas.

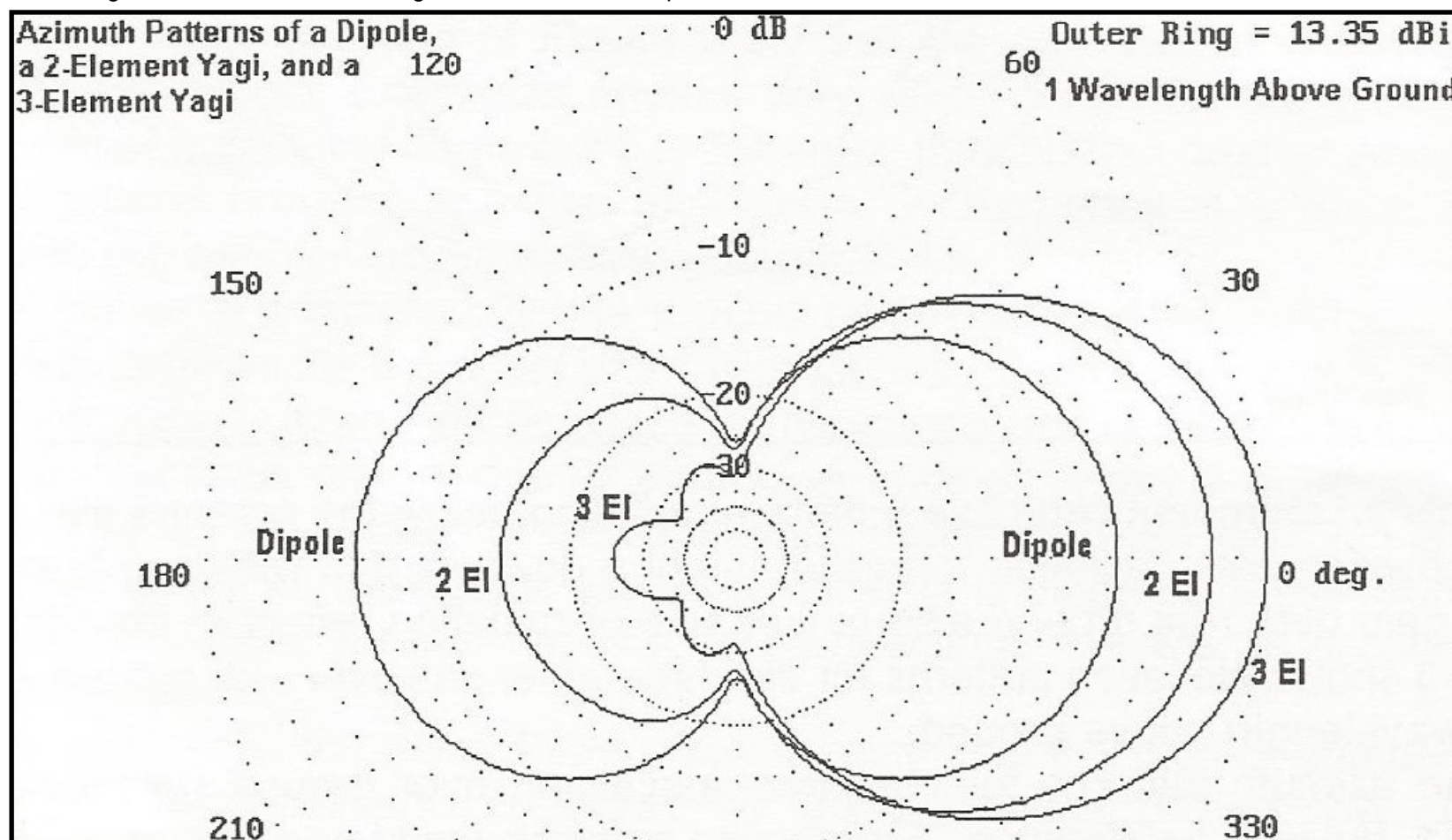


Figure 1. Azimuth Patterns v.s. Number of Elements

To accurately see the power pattern of an antenna, we must also look at it from the side in an elevation pattern. An elevation pattern is like standing beside the antenna and looking through the aluminum tubes, while seeing the radiation. Figure 2 gives an elevation pattern in free space for the same 3 antennas (3-element Yagi, 2-element Yagi, and dipole). (Free space is like being in "outer space", that is, there is nothing in any direction to reflect any of the radiation from the antenna. So the pattern extends downward as well as in all other directions.) Notice the displacement of the beam antenna patterns to the right, which corresponds to the forward lobe of the beam antenna azimuth patterns.

Only an astronaut can have a pattern radiating below the antenna site. On earth (or any other planet), radiation from the antenna downward is reflected back upward. Antenna gain over real ground also makes use of radiation reflected

from the ground. Figure 3 shows elevation patterns for the three antennas over real ground at 35 feet, about 1 wavelength above ground.

The azimuth patterns for both free-space and over ground resemble those of Figure 1, but with a difference. Free-space patterns would be taken at a zero-degree elevation angle – that is straight ahead (to the direct right in Figure 2). As we noted earlier, patterns for antennas over ground use the angle of maximum power, the take-off angle. The elevation patterns in Figure 3 display this angle clearly and show that horizontal antennas above a real ground have a number of higher angle lobes as well as the main lobe. The complex pattern results from adding and subtracting reflected radiation from the above-ground pattern, depending on its relative phase.

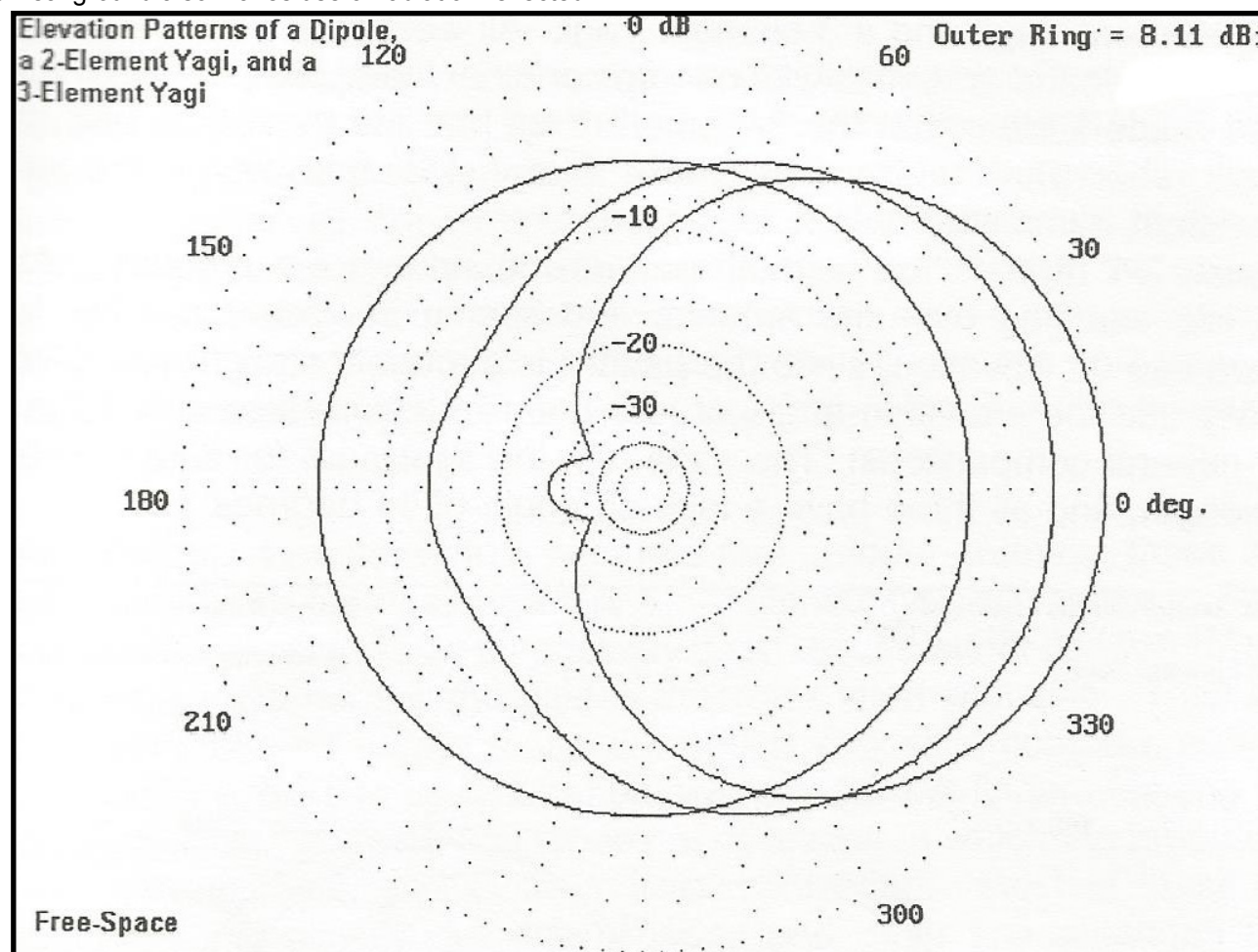


Figure 2. Elevation Patterns v.s. Number of Elements in Free Space

Comparing Figure 2 and Figure 3 can lead to a possible misunderstanding, since the apparent radiation patterns are the same size in the two graphics; that is, the radiation just reaches the outer ring. However, that way of styling our drawings is just a convenience for making comparisons within each drawing. In actuality, the power in the lowest lobe of Figure 3 for each type of antenna is much greater than the power in just the horizontal direction of Figure 2. See the gain values in the upper right corners of each figure. Expressed another way, all of the power represented by the spheres or near-spheres in Figure 2 is

flattened, thus putting greater power into the lobes that extend horizontally. The total power in the lobes is a result of adding reflections to the main or incident power going that way.

The next result is that the ultimate superior performance of the 3-element Yagi over the other two antennas is a product of 2 major factors. Each antenna over ground has gain over the same antenna in free space. (This gain is true of all antennas.) Second there is the directional gain of one antenna over another by virtue of design. Both of these gain sources are matters of taking antenna

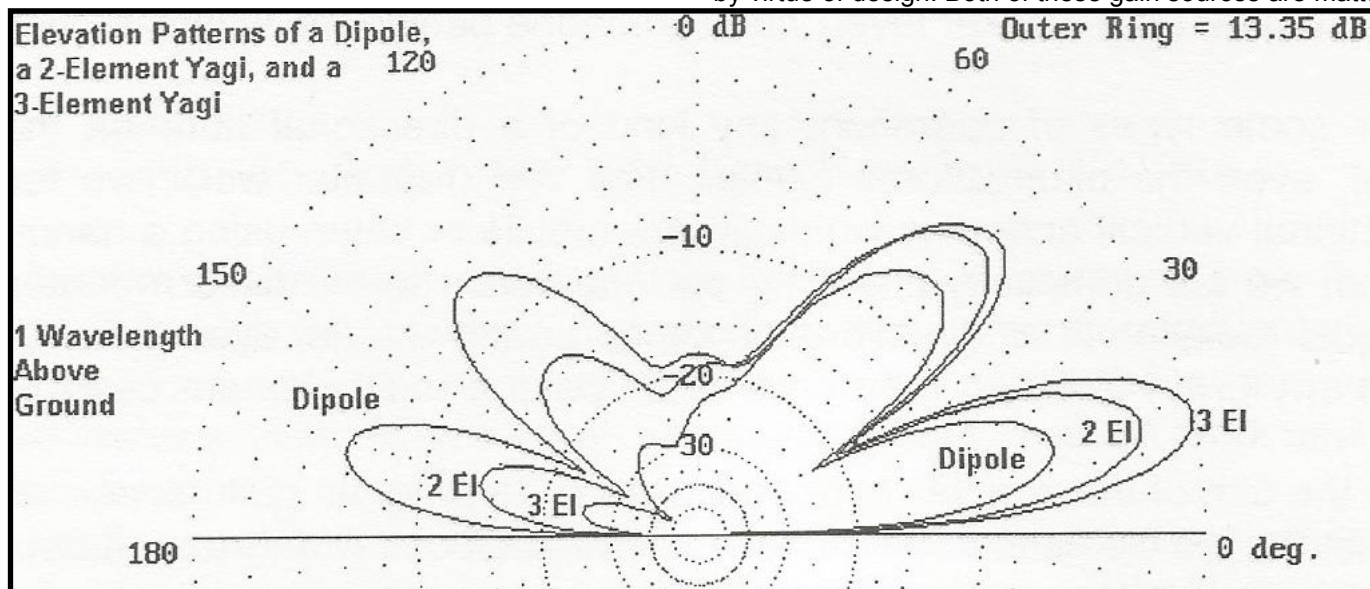


Figure 3. Elevation Patterns v.s. Number of Elements over Ground

power from one direction and putting it into another direction. So gain is always a matter of finding where the strongest part of our radiation goes. The net radiation in all directions remains as constant as the power level we use.

However, since the gain of one antenna relative to the gain of another antenna can be both calculated and controlled by good antenna design, we can – within limits – achieve a good bit more success than early radio pioneers in making and maintaining radio communications. The top antenna in our collection is far from the best forward gain achiever ever designed. Yagis may have any number of elements up to the limit that one might support on a boom – even if we add trusses to the boom. Other types of designs, such as rhombics, are also capable of very high gains. However, gain always comes at a price: size. Moreover, gain alone is not always the only advantage we want. A good front-to-back ratio is a measure of how well an antenna rejects QRM from the rear.

Sometimes, we do not want all of the gain and front-to-back ratio that we can obtain in a large antenna. For example, for local net operations, a 2-element

Yagi seems to work best for me. It has some gain over a dipole, but the lower front-to-back ratio lets me hear (at a weaker level) when someone behind me wants to check into the net.

From some types of operation, any kind of a directional antenna may be too directional, even the bi-directional dipole. For VHF repeater work, we tend to use omni-directional vertical antennas when we are mobile or when using a handi-talkie. In both cases, we are constantly changing our orientation to the fixed repeater site. So having equal radiation in all directions becomes an advantage, even if that radiation is weaker in any given direction than if we could point a multi-element beam toward the repeater.

So the aim of these notes is not necessarily to promote gain except where it will help us with the job we need to get done. Instead, the point is only to understand where antenna gain comes from.

WOULD YOU LIKE TO JOIN 10-10?

Here is what you need:

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

TYPES OF MEMBERSHIPS

To become a member either fill out the form on the following page and mail to the Data Manager at the indicated address or go on-line to the 10-10 web page, www.ten-ten.org 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

Go on-line to the 10-10 web page www.ten-ten.org and follow the links from 'membership' to 'renewals' and select the membership category.

DATA MANAGER SERVICES

Call/Name/Address Changes

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

All payments may be made by Check, Money Order or IRC's (\$1USD per IRC). Due to banking regulations Credit Cards cannot be accepted for merchandise. Membership Services and Scholarship Donations can be made via credit card using the secure shopping cart at www.ten-ten.org

Mail to:

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

SCHOLARSHIP DONATIONS

Donations to the 10-10 Scholarship Foundation are encouraged by our members to help fund five \$2000 10-10 Scholarships that will be awarded next year. For donations of \$15 you will receive a current year's lapel pin as a thank you gift, and for \$25 or more a second pin from a previous year will be sent. 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.

Spirit of 76 - 7 day, 6 mode event around 4 July each year
0001 UTC Monday through 2359 UTC Sunday.

Summer Phone - held on the first full weekend in August.
0001 UTC Saturday through 2359 UTC Sunday.

Sprint - a 24 hour event held on October 10th (10-10).
0001 UTC through 2359 UTC.

Fall CW - held on the third full weekend in October.
0001 UTC Saturday through 2359 UTC Sunday.

Fall Digital - held on the second full weekend in November.
0001 UTC Saturday through 2359 UTC Sunday.

5.2.3 FREQUENCY AND MODES

Direct unassisted contacts only are permitted. Repeater, Satellite, IRLP, Echolink, or any other similar type of assisted contacts are NOT allowed. Based on the appropriate band plan for the country of operator, CW QSO Parties should be operated in the CW area of the 10 meter band and operated using CW only. Digital QSO Parties should be operated in the digital area of the 10 meter band and operated using Digital modes only (RTTY, PSK, etc). Phone QSO Parties must be operated in the PHONE area of the 10 meter band and may be operated using any approved method (SSB, FM, AM). The SPRINT utilizes all operating modes in the 10 meter band. NOTE: A QUIET ZONE between 28.490 and 28.510 shall be in effect during QSO Parties using the Phone portion of the 10 meter band to allow for others to use the band.

5.2.4 ENTRY CLASSIFICATION

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

INDIVIDUAL: 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.

QRP: same as an individual as listed above except that output power does not exceed 5 watts with CW/Digital operations and/or 10 watts with Phone operations during the entire event.

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

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

5.2.5 TRANSMITTER INFORMATION

An operator may operate mobile, portable or fixed. If they change their exchange QTH during the QSO Party, the operator must show same in their log. The operator may enter a log from one call district, province, or DX country. Multi-transmitters (two or more transmitters operating simultaneously, sharing one call sign) are NOT permitted in any QSO Party. If a single transmitter becomes inoperable, it is permissible to change to a replacement transmitter.

5.2.6 EXCHANGE

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

5.2.7 QSO POINTS

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

5.2.8 CHAPTER SCORE ASSIGNMENT

Any entrant who is a chapter member and whose operating location is within 150 miles of the primary net location of that charter, may assign the entrant's score to that chapter.

QSO Party scores for the Sprint may not be assigned.

5.2.9 QSO PARTY ENTRIES

Logs shall be forwarded to the QSO Party Manager as identified in the 10-10 NEWS or on the 10-10 web site. It is strongly suggested that logs be sent as soon as possible after the close of the event. It is also recommended that DX logs should be sent AIR Mail to insure they are received in good time. Any logs received with a postmark date AFTER the deadline date will be handled as a check log. Any logs received more than 15 days after the entry deadline, regardless of postmark, will be discarded. All logs may be sent via Email. Logs (if cabrillo, adif, or text) may also be uploaded at www.hamclubs.info/scorer/. Please no .Q95 files.

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 15 calendar days (this will always be a Monday) after the close of the event. Mailed entries for the Sprint (held on 10/10) shall be postmarked no later than October 25th, unless that day falls on a Sunday, then the postmark deadline shall be October 26th.

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, CLUB, MOBILE and CHAPTER. Electronic certificates will be sent to the 2nd and 3rd place scorers in these categories.

5.2.11 ANNIVERSARY and MEET THE VOLUNTEERS EVENTS

These events run from January 1 0001 UTC to December 31 2359 UTC. In the Anniversary event, entrants may submit a log of contacts with members that have the anniversary year contained in their membership number. Example: 2010 is the 48th anniversary year of 10-10 International Net, Inc. Contact with members containing a "48" in their membership number (i.e., 72048, 69485, 64854, 48126, 00487) would count toward the event. Each year the anniversary number changes, making a new group of members the focus of the event and promoting the use of the 10-meter band. All general rules are applicable with the following exceptions: During the calendar year (January 1 through December 31) make legal 10-10 contacts with 10-10 Number, Date, Call Sign, QTH with members containing the anniversary year in their membership number as described above. In the MEET THE VOLUNTEERS event, entrants may submit a log of contacts with members listed in the 10-10 NEWS as being a 10-10 volunteer. One contact per volunteer is permitted, regardless of mode of contact. In both events, contacts must be made on the 10-meter band with any legal mode (AM, SSB, FM, PSK, CW, etc.). All submitted logs must contain only one entry for each 10-10 number contacted. Contacts MUST be listed in 10-10 number order and each entry must list the 10-10 Number, Date, Call, Name, QTH

and Mode, in that order. These events are for Individual entries as described in section 5.2.4 and certificates will be awarded for the TOP Ten, however all entrants will be listed in the 10-10 NEWS. Logs MUST be postmarked no later than January 15th of the year following both the Anniversary and Meet the Volunteers events. Only members in good standing (with dues paid) are allowed to submit logs.

5.2.12 SPIRIT OF 76 (7 Days, 6 Modes) QSO PARTY

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

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

Scoring will be as normal for QSO Parties, 2 points for members and 1 point for non-members. Dupes will be allowed once for each mode. It will be possible to work the same call 6 times in each of the various modes for a maximum total of 12 points per call. All other normal rules apply. Logs shall be forwarded to the QSO Party Manager.

5.2.13 10-10 SPRINT (October 10) QSO PARTY

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

5.2.14 W6OI/VE9TEN/DL0X SPECIAL EVENT

This event is held during the 3rd weekend of November each year from 0001 UTC Saturday through 2359 UTC Sunday. This special event operation is where volunteers operate the 10-10 official club stations (W6OI/VE9TEN/DL0X) seeking to work anyone anywhere. Any mode of operation is permitted. Many operators will be authorized to operate W6OI from most US states and VE9TEN from various Provinces/Territories simultaneously. DL0X is operated by Henry, DL8YBM. The purpose is to have fun promoting 10-meter activity making contacts with 10-10 members and of course, non-members. This is a great way to increase membership! Exchange is similar to any 10-10 party event - name, call, QTH, 10-10 number if one is available. As contacts are made, provide info on 10-10 organization and where to find our website - www.ten-ten.org. If anyone wants to volunteer to operate W6OI during this event contact Jerry, N9AC. Members in Canada should contact Rob, VE9KM for permission to operate VE9TEN.

5.2.15 FOR MORE INFORMATION

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

2016 10-10 QSO PARTY COVER SHEET

Event	Dates	Postmark	Event	Dates	Postmark
Winter Phone	Feb. 7-8	Feb. 23	Summer Phone	Aug. 6-7	Aug. 22
Spring Digital	April 25-26	May 11	Sprint	Oct. 10	Oct. 25
Spring CW	May 2-3	May 18	Fall CW	Oct. 15-16	Oct. 31
Open Season	June 6-7	June 22	Fall Digital	Nov. 12-13	Nov 28
Spirit Of 76	June 29-July 5	July 20	Anniversary (54)	Jan. 1 - Dec 31	Jan. 15
			Meet the Volunteers	Jan. 1 - Dec. 31	Jan. 15

Name _____ Call _____ 10-10# _____

Address _____

City _____ State/Province/Country _____ Zip _____

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

PLEASE LIST CONTEST EXCHANGE

Call _____ Name _____ 10-10# _____ QTH _____

ENTRY TYPE

- ☐ **INDIVIDUAL**
- ☐ **QRP** 10 watts or less Phone,
5 watts or less CW/ Digital
- ☐ **MOBILE** See QSO Party rules.
- ☐ **CLUB** Only for those operating
as a Club Station. If Operating under
a Club call, please list all operators and
their 10-10 numbers (if any) on the log.

**US Call Area (W0-W9)
Or ARRL DX Country
You operated from**

**Chapter Assignment
(Not valid for Sprint)**

Claimed Score

Contacts WITH
10-10 Number: _____ x2= _____

Contacts WITHOUT
10-10 Number: _____ x1= _____

Total
Contacts: _____ Total Pts _____

All submissions must contain this cover sheet (or a reasonable facsimile), the log in UTC Date/Time order,
And a Dupe Sheet (if more than 50 contacts) in call sign order or in grid format.

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

**Logs may be emailed to tentencontest@ten-ten.org. Members are encouraged to upload logs at the KJ4IZW con-
test scoring web site: www.hamclubs.info/scorer.**