

TEN-TEN INTERNATIONAL


July 2023 (Summer)


Official Publication of the Ten-Ten International Net, Inc. - www.ten-ten.org
Monitoring 28.380 and 28.800 MHz daily at $1800 Z$ except Sunday

## The Ten-Ten International News

Is published four times annually by the TEN-TEN INTERNATIONAL NET, INC. Publication dates are approximately mid January, April, July and October.
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News items should be sent to the Editor. Technical articles and information on all 10 meter activities or news are welcome and solicited. All copy submitted must be typed, and sent on computer disk or E-mail. Suitable formats will be provided upon request.

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

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pLEASE MAIL ALL ARTICLES AND PHOTOS TO:
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E-mail: editor@ten-ten.org
10-10 CHAPTER ACTIVITY REPORTS: Should be sent to the Chapter Coordinator ADDRESS CHANGES: All members should send address changes to the Data Manger NOTE: 10-10 IS NOT RESPONSIBLE FOR POSTAL SERVICE DIFFICULTIES

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## From the Editor

Over the last few months it has been a real challenge to check in to a 10-10 net and make contacts during the last two QSO Parties. I can honestly say that propagation on 10-meters sucks, at least from the Pacific Northwest. I only made 20 contacts during the Spring Digital party and heard no one during the Spring CW party. I know the sunspot cycle is on the upswing, but you couldn't prove it by my log. So when Carl Luetzelschwab (K9LA) submitted his article dealing with 10-meter propagation, I read it with real interest. I think you will find it interesting too. See Point Your Antenna the Other Way Around in this issue. Carl shares some good information about long-path communications.
Even though I may be a little discouraged with my 10-meter contact rate, I plan to give it my all for the Weak-Signal and Summer Phone QSO Parties. If you go to the FT8 watering hole ( 28.074 MHz ) and fire up your WSJTX software, I hope you will hear me calling CQ and giving out my 10-10 number, name and QTH. If you hear me, then please answer. If you don't know how to send 10-10 number, name and QTH through FT8, then spend a little time watching the FT-8 HOWTO video on the Ten-Ten International website (www.ten-ten.org).
In this edition, Jeff Steinkamp (10-10 IT Manager) gives some good advice about interacting with the Ten-Ten International website. He describes an easy method of keeping track of all those pesky logins and passwords we need to remember in order to gain access to our personal information. He also shares his thoughts on Email Forwarding Services and Email Spam Intervention programs. Best of all, he gives information on how to get help when you can't seem to get the website to show you what you want. See Ten-Ten international Website in this issue.
Thank you Jeff and Carl for providing interesting articles for this newsletter issue. I certainly would like to see more articles from our membership. Just be willing to share an amateur radio experience with the other 10-10 members. Write it up and send it in to editor@ten-ten.org. l'll be happy to help wordsmith it, if it needs wordsmiting.

Until the next issue, stay safe and get on the air.


Greetings from Elephant Butte in the high desert of southern New Mexico.
As I write this, my wife and I just returned from our 1,530-mile (each way) trip to and from Hamvention. It is good to be home, but we had a great time meeting new people and seeing the sights along the way. Back in the old days, I would have driven the 22 hours straight through. Now it takes three days. We really got lucky on the way home. We stayed the last night in the Texas panhandle, and the next afternoon there were severe thunderstorms that included large hail there and in eastern New Mexico. A day later, and we would have been right in the middle of it.
At Hamvention, our booth was manned by our Treasurer-KR7RK, his son-KR7JAS, Director-N7UQ, and me. Thanks to KR7RK for making our Hamvention arrangements, N7UQ for bringing, setting up, and taking down the booth materials, and KR7JAS for coming along to help. We did a lot of membership renewals, sold some patches and pins, and met many old and new friends. Despite QRM coming from the non-ham booth next to us, I think it was a successful event. At the time of this writing, the attendance number has not been released.

Don't forget the Weak Signal and Summer Phone QSO parties coming up on the 2nd weekend in July and the 1st weekend in August respectively. Check the web site for the rules and other information such as the FT8 how-to video. 10 -meter activity is picking up, so let's take advantage of it. Even if you make only a call or two, turn in your log!

Can-of-worms time. More than one potential member has mentioned to me the difficulty in collecting the ten required contacts to get their own 10-10 number. Part of this has to do with the lack of propagation in the last few years, but that's not the only problem. l've been asked why computer printed logs cannot be used to apply for a number (name might be wrong). Why is the 10-10 number a secret (cannot be repeated on the air)? My 10-10 number is on my QSL cards, my eQSL card, my QRZ page, my web page, and other places. Why don't we use NetLogger on our 10-10 nets? There are more questions, but you get the idea. I am also confused about these things. Let's start a discussion on this topic.

I mentioned this in the Spring issue, but it is worth repeating. Since the early 1990s, Ten-Ten International has awarded college scholarships to amateurs around the world via the 10-10 Scholarship Foundation. This year's goal is to award $\$ 2000$ scholarships to three deserving hams. Funding for the scholarships is through members' donations, so I encourage you to consider a donation to the foundation. Small donations are welcome, and I especially encourage those with lifetime memberships to get on board! Details about the 10-10 Scholarship Foundation and making donations are found in each issue of Ten-Ten International News. A history of the scholarship program by Larry Berger, WA2SUH, can be found in the October 2021 issue on page 10.
Finally, a word to the wise. On 10-10 social media, do not harass, make fun of, or belittle people. We lost at least one good new member because of this. Ridicule is not a joke. Enough said.
The tower is up! Now if the sun will cooperate..... Have a safe Summer. CU on the air!
73
Dave NFØJ \#19553

## NEW LIFE MEMBERS

| 00593 | WØVUB | Francis "Mick" Hayes | NE |
| :--- | :--- | :--- | :--- |
| 17948 | N6EFF | Robert E Neff | CA |
| 23805 | WØARS | Michael J Earnest | IA |
| 54790 | WA7GVL | Paul D Erickson | UT |
| 74990 | KI4HPX | Victor Wasilov | GA |
| 74994 | W5JY | Jim R Milliken | LA |
| 76774 | W4SRS | Ronald Serafini | NC |
| 77796 | KL7NW | John Gieringer | NE |
| 78157 | K6DW | Donald S Wilson | CA |
| 78166 | K9PMM | Mark Block | FL |

## 10 Meter Beacons

As 10 meter operators one should be aware that propagation beacon frequencies are coordinated.
I would appreciate a message from anyone with thoughts of activating a beacon. wi5v.be@gmail.com
73 Dennis Stice WI5V \#35806
IARU Region 2 HF Beacon Coordinator
https://wi5v.net/author/wi5v

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

Mon (28.380)
Tues (28.380)
Wed (28.380)
Thu (28.380)
Fri (28.380)
Sat (28.380)
Alternate
Sunday NEVER ON SUNDAY

10-10 Has One Official Daily Net<br>28.380 MHz<br>Net Starts At $1800 z$<br>Every Day Except Sunday<br>Listen And If You Can Hear Us Join IN!!!

## QSL Bureau News

The QSL Bureau manger, Jim Stoeber WI9X \#49635 became a Silent Key. Contact Mel Sojka if you are interested in managing QSL cards for the 10-10 International Net.

## ARTICLES

There is always a need for articles in the News. There have been a couple requests for Do-lt-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.

## Some Antenna Safety Notes

Editor's note: This article is a reprint of an article done by L.B. Cebik, W4RNL (SK), \#41159 in a previous issue of this newsletter.
RF SAFETY: RF Hazards come in two varieties. One is radiation. Current FCC regulations provide standards for safe amounts. Use the worksheets and analyze your station, even if you think you may be exempt by virtue of power levels and spacing. Be sure.

A second hazard comes from direct contact with antenna elements carrying RF currents. Ground-mounted verticals and inverted Vee ends provide the greatest hazards, since both children and adults can come into contact with them either directly or with some implement having a long metal handle.
Isolate ground-mounted verticals with fencing or other barriers which are effective especially in preventing children from touching a potentially active antenna. A vertical in or adjacent to a children's play area may mean station silence during periods when children are present: if contact is not a danger, radiation may be.
Elevate and insulate horizontal antenna ends above the level where anyone can touch them with a metal rod. Never underestimate the ingenuity of a child with a small mean streak or a large curiosity.
STATION GROUNDING: Everyone is familiar with the need for a common ground bus for all station equipment with as short a lead as possible to a ground rod outdoors. If you have a tower, it should also be ground rodded. All ground rods (including the house ground at the electrical service entry) should be connected together by the largest copper wire you can obtain. Some folks use copper flashing cut into long strips. These days, braid is not recommended because its very large surface area open to weather deteriorates it quickly. Use solid mechanical connections, not solder (which melts in the presence of lightning like a teenager in the presence of a rock start: (instantly ).
If ground rods are widely separated, add ground rods in a row from end to end, spaced about the length of each ground rod apart. This is not over-kill-just the opposite. It is over-safe by holding the resistance between everything in your house and shack at the absolute minimum. Even a slight resistance may give a lightning surge an alternative path to ground through your "stuff."
INSURANCE: Carry all you can afford that may be relevant to hazards that antennas may present. However, never let the existence of insurance be a substitute for the best possible practice in the installation and maintenance of antennas and their supports. The lives you preserve may include your own and those of your loved ones.


## GENERAL NEWS

1) Update: I did get a response from Ft. McHenry/Cornerstone/Yodar Kritch, thank you very much for your report.
2) Reminder: Please double check the TEN-TEN Net Guide to be sure your net(s) are listed correctly. If there are changes, be sure to let me know so I can update the list.
3) Quarterly Reports at Risk of Termination: (no report in over a year): Down Under, Major League Baseball, New Mexico Mud Ducks, Route-66, Speedway, Tango, Up the Crick.
4) Quarterly Reports Past Due: (no report received during the prior quarters when due): Castle Craig (last report 07/2022), Chesapeake Bay (last report 07/2022), Houston Shot (last report 06/2022), Louisiana Pelican (last report 06/2022), Milwaukee (last report 07/2022). Reports received after May 31, 2023 (date of this report) are not included here and will be acknowledged in the Chapters section of the 10-10 website.
5) Reporting: www.ten-ten.org/index.php/resources/ten-ten-documents/ten-tenforms for a form to download or www.ten-ten.org/chapters/quarterly-report to fill out and submit electronically. Be sure to notify IT Manager Jeff, N7YG, before using this easy-to-use form so he can add you to the Chapter Management Group. If you do not have internet access, let me know and I will send you a blank form that you can copy and submit. A responsible chapter official must report to the Chapter Coordinator. This is done quarterly. If there are no changes to the previous report, then the chapter can go for up to a year without reporting. A report must then be made even though no changes have been made. These reports may be made via the U.S. Postal Service or via email. One of the reasons listed for termination of chapter is failure to report four consecutive quarters (1 year).

## CHAPTER NEWS

1) Chief Seattle: Still looking and hoping for someone to take on this chapter to assist or possibly take this chapter over.
2) Branding Iron chapter is still without a Chapter Head. Peter, DL6DK, has agreed to continue as CM , but we need someone to come forward to become CH . Anyone willing to do so, please contact Peter or me.
3) All chapters are asked to plan for succession of leadership. To aid in such planning, IT Manager, Jeff, N7YG, has been setting up FTP accounts on the 1010 server where chapters can save their data. All CH: contact Jeff for the details if you wish to take advantage of this opportunity. This is a good idea even for the redundancy of record keeping and in the event of a tragedy.
4) I will leave this next info the same unless someone tells me different then I will correct for the next newsletter. Chapters below accept email upgrades as of 2023. All the listed chapters generally need previous, new and total points and seals claimed. Any transaction with the CM that requires that a certificate be issued, and most worksheet specials, should still be handled via US Mail. Also, it is good practice to keep a detailed listing of the upgrade in case the CM should require verification. This is especially true with Chesapeake Bay Chapter as some data was not transferred to the new certificate manager. Requirements peculiar to a particular chapter are noted. Also refer to \#4 above for a records vault.
(** indicates change)
Bauxite - CM K5BKT, k5bkt@nwla.com. Bauxite and Arkansas Visitor numbers only.
Bay Area - CM K6RDK, k6rdk@arrl.net
Branding Iron - CM DL6DK, bic-cm@voits.de
Castle Craig - CM N1API, n1api@cox.net
Chesapeake Bay - CM N3TGB, n3tgb@aol.com
Down Under - CM ZL1AFU, zl1afu@nzart.org.nz
Fort McHenry/Cornerstone/Yodar Kritch - CM K3TUJ, k3tuj@juno.com
Hanse - CM DL5HAN, dl5han@t-online.de
Houston S.H.O.T - CM N5MT, n5mt@aol.com
Louisiana Pelican - CM N5MT, n5mt@aol.com
Major League Baseball - CM N6OPR, n6opr@msn.com
New Mexico Mud Ducks - CM KM5EH, buckml@lobo.net
North Georgia - CM W4GKF, 10X@chazcone.com
Oregon Trail- CH/CM K7QXG, k7qxg2@gmail
Speedway - CM W7CAR, w7car@arrl.net
Steamboat Plus - CM KD5DE, kd5de@nwla.com
If any chapter not listed accepts email upgrades or if the email listed has changed, please let me know so I can update the list. Thanks.
chuck@n7uq.com or 112 S. Rolling Meadows Dr. Wylie, Tx. 75098
469-829-5462

## TEN-TEN NET GUIDE

| DAY | ZSUM | ZWIN | Chapter Name | Location | Freq | DAY | ZSUM | ZWIN | Chapter Name | Location | Freq |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SUN | 0001 | 0100 | Chesapeake Bay | Chestertown, MD | 28345 | WED | 0100 | 0200 | Cincinnati Area Ten | Cincinnati, OH | 28430 |
| SUN | 1300 | 1400 | Arlington | Arlington, VA | 29200 |  |  |  | Tuners |  |  |
| SUN | 1400 | 1500 | Neanderthal | Euskirchen, DL | 28355 | WED | 0100 | 0200 | Houston SHOT | Houston, TX | 28488 |
| SUN | 1800 | 1800 | Major League Baseball | Gilbert, Az. | 28380 | WED | 0200 | 0300 | 10-Bar-X | El Paso, TX | 28445 |
| SUN | 1900 | 2000 | Oregon Trail | Dallas, OR | 28330 | WED | 1400 | 1500 | EU DX/Branding Iron/ | Bergkamen, DL | 28355 |
| SUN | 1930 | 1930 | North Georgia | Atlanta, GA | 28415 |  |  |  | Hanse |  |  |
| MON | 0100 | 0100 | Arizona Desert | Phoenix, AZ | 28445 | WED | 1930 | 1930 | Route-66 | Apopka, FL | 28370 |
| MON | 0100 | 0100 | Lonestar | Arlington, TX | 28460 | THU | 0100 | 0100 | Cow Town | Arlington, TX | 28460 |
| MON | 0100 | 0200 | Milwaukee | Milwaukee, WI | 28365 | THU | 0100 | 0200 | Gateway | St. Louis, MO | 28650 |
| MON | 0130 | 0230 | Bauxite | Benton, AR | 28470 | THU | 0100 | 0200 | Milwaukee | Milwaukee, WI | 28365 |
| MON | 1630 | 1730 | Chief Seattle | Seattle, WA | 28430 | THU | 0230 | 0230 | Windfarms | Livermore, Ca | 28485 |
| TUE | 0001 | 0100 | Ft McHenry/ | Arbutus, MD | 28370 | THU | 0230 | 0330 | Up the Crick | Eugene, OR | 28450 |
| TUE |  |  | Cornerstone/ Yodar | Arbutus, MD |  | THU | 1930 | 1930 | Speedway | Rainer, OR | 28350 |
| TUE | 0100 | 0200 | Kritch CO Centennial/CO Frontier Gang | Lakewood, CO | 28340 | FRI | 0001 | 0100 | Ft McHenry/ Cornerstone/ Yodar Kritch | Arbutus, MD | 28370 |
| TUE | 0100 | 0200 | City of Lights | Aurora, IL | 28150 CW | FRI | 0001 | 0100 | Possum Trot | Raeford, SC | 28345 |
| TUE | 0130 | 0230 | Bauxite | Benton, AR | 28470 | FRI | 0001 | 0100 | Steamboat Plus | Shreveport, LA | 28430 |
| TUE | 0130 | 0230 | City of Lights | Aurora, II | 28720 | FRI | 0300 | 0400 | Chief Seattle | Seattle, WA | 28430 |
| TUE | 0300 | 0400 | Bay Area | Hayward, CA | 28475 | FRI | 2230 | 2130 | Down Under (Summer i | inAuckland, ZL | 28530 |
| TUE | 0430 | 0430 | Aloha | Hilo, HA | 28490 |  |  |  | NZ is winter in US) |  |  |
| TUE | 1500 | 1600 | New Mexico Mud Ducks | Albuquerque, NM | 28835 | SAT | 1510 | 1610 | Louisiana Pelican | Baton Rouge, LA | 28450 |
| WED | 0001 | 0100 | Castle Craig | Meriden, CT | 28375 | SAT | 1730 | 1730 | Tango | Buenos Aires, LU | 28650 |

 continues to produce propagation into Europe and Asia on 10 Meters with high solar flux numbers when the Sun is not showing big sun spots. New members have joined the ranks which give you a chance to talk with a new member and swap 10-10 numbers for an award. Remember, this is year 61 for the 10-10 Anniversary so find some new members with a 61 in their member number and log them. So I will talk about some DX that has popped up the past three months and see what's coming later this year.
Father Ed Schmidt OA4SS \#10802 is now 84 years old and he has been a 10-10 member since 1975 for 48 years! I first talked with Ed in 1980 and more than twenty times since. But Ed's life has slowed down and he has moved into assisted living. His radio gear was moved to a high school to be a club station where he may be able to use his radio.
Someone asked me what new DX members that I have put in the log so I sorted the log and looked. So far in 2023 I have seven new members. George 9G4X \#73941 in Ghana, Troy WH6WAV \#77927 Hawaii, Lorenzo IK6PTH \#62288 Italy, Jim ZF2OO \#48365 Cayman Isl., Oscar HK6DOS \#39978 Columbia, Ernst VE3GNU \#8738 Canada, and Adam VK4IM \#73123 Australia. In year 2022, I put 18 new members in my log. In 2002 I found 139, and in 2001 found 158. My best year was in 2000 I set my record of 264 new members and I put 1843 old members in my log. I retired in 2000, so my hobby/radio time increased a lot.
The DXpedition to Bouvet Island was a big disappointment for many DX chasers in February with the bad weather at Bouvet! High seas made dangerous boat landing conditions on the island. A few ops made it ashore with limited stuff and they put up two of the planned five stations. The resulting setup caused the QSO counts to be only $9 \%$ of what was expected to log with five stations. I did not hear any activity on Ten but they logged 675 QSOs on Ten. Most of the ten-meter Q's were into Europe and Asia and only two Q's to North America. You will find some Bouvet videos on YouTube. This bad-luck DXpedition will be remembered and just blame it on a lot of bad WX weather.
Members are having a good time with the rise in the solar flux. The Sun
gave us two solar flux highs the past year, so enjoy the better propagation. We had many large sun spots this past quarter on the Sun to cause some bad propagation! And I expect to get more bad sunspots and flares this year!
Canada hams can use four special prefix changes during June until July 2nd. Most VA become CJ , the VE becomes CK, VO becomes CY and VY becomes CZ. Do a Google search for more info and log a new 10-10 prefix in June.
Countries Award: There were no Countries Award applications submitted this past quarter. Thanks to Marcus KM5EH \#71103 for sending me my OM/XYL certificate for 50 teams number 76 . I will have more coming soon.

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

3B9 Rodriguez Island. Robert 3B9FR \#61550 was active in mid April about 0545 UTC on FT8.

4L Georgia. Rene DL2JRM \#69623, was in Georgia for a short time until March 20th as 4L/DL2JRM only on CW.
Rene will be back in Georgia from June 16-19th.
9G Ghana. A DXpedition of nine ops went to Ghana from March 23-30th. George N4GRN \#73941 and Hal W8HC \#12502 used callsign 9G4X from Accra. They were on SSB, CW and FT8 for digital.

9M2 West Malaysia. Rich PAORRS \#24343, was back in West Malaysia from January to March 26th using call 9M2MRS. West and East Malaysia are both rare for us! No SSB, some CW but mostly FT8 on 28074 or 28180. On air times were early morning for us in the USA.
4U United Nations. The UN club station 4U1UN \#55555, in the New York UN building, was heard this past quarter. The remote HF station was on Ten along with the beacon on CW but only FT8 digital and no SSB.
4U UN Switzerland. 4U1ITU \#11111. There was radio from the club station using Fox/Hound on FT8 in March.
CYO Sable Island. The big DXpedition to Sable Island was from March 2030. Dan W4DKS \#5395 and John W2GD \#14109 were the 10-10 members. Website: www.CYOS.com. Sable is now a remote weather station for Canada and does not keep anyone on the island for station keeping. They rented facilities where they stayed and operated and the only permanent residents on Sable are the seals and horses that have to be protected from visitors.
EY Tajikistan. Nodir EY8MM \#52767 was on FT8 a lot over the past five months. He travels to DX places a few times a year so watch for Nodir to operate from Africa.

FJ St. Barthelemy. Phil K2LIO/FJ4WEB \#7746 was back on St. Bart for a short while in March and April. He did not spend a lot of time on Ten but he is the only member to stay on St. Bart for long periods.
HB9 Switzerland. Rene DL2JRM \#69623, operated from April 29-30th in a contest. No info if he made any 10-10 contacts as propagation was bad on Ten.

HC8 Galapagos Island. James WB2REM \#48365 and three friends were on the island from March 1-11th. They used all bands, modes and digital using callsign HD8M.

HR Honduras. Gerard F2JD \#63443 was on Ten using FT4 as HR5/F2JD. He has been there since December 22.
J6 St. Lucia. Dan W0CN \#27026 and Bill K9HZ \#2618 were back in St. Lucia until March 7th using call J68HZ. Bill may have returned in April to the station as J68HZ.
K USA. Tim NL8F \#32796 has been on FT8 after work hours from Dutch Harbor Alaska. I have no info if Tim made any 1010 Q's but he likes to use other bands for DX. George W3AB \#70708 operated from Pigeon Point Light on May 26-27th. This location is 50 miles south of San Francisco CA and the lighthouse is really tall at 115 ft .
PJ2 Curacao. Andreas PJ2/DK5ON \#54260, was on Curacao Island from March 4-22nd. All modes. LoTW.

David KE3VV \#69831 was using PJ2/KE3VV in early March outside of the DX contest for CW and FT8.
PJ7 Saint Maarten. Gary KC9EE \#16977 was on the island from March 1-8th. His call was PJ7EE using a low power QRP radio on FT8 and CW. LoTW.

V2 Antigua. Eleven operators were using V26EI from Antigua from March 24 to April 2nd. Two 10-10 members were Declan EI9HQ \#71019 and Thos EI2JD \#73610.

V26K by Bud AA3K \#53485, was in Antigua from March 21-27thon FT8 and CW except for the WPX SSB contest.
V3 Belize. Walt W0CP \#14291 was using call V31DJ until March 11th from Belize on CW, SSB and FT8. LoTW.
V5 Namibia. Mike V51MA \#64688 is now an alternate net control on 28380 on the daily 10-10 net at 1800 UTC. He has been on 28074 FT8 at 2000 UTC on Ten. Mike lost his 1010 number and log records a few years ago. But last year in November, I was able to give it back to him when we talked. So remember your 10-10 number is yours for life.
V7 Marshall Islands. Bob V7/N7XR \#26991 will be on Kwajalein Atoll until early July. His radio is an IC7410 into a dipole and vertical mostly CW or digital
modes. Bob and one other ham are the only radio operators on the Atoll.
VP2M Montserrat. Thaire W2APF \#50022 was using call VP2MDX until March 30th. He operated CW \& SSB into a hexbeam with a small amp. His location is not far from the big local volcano on the island.
VP5 Turks' \& Caicos Islands. Ross VP5/W2TT \#25714 was in Providenciales from March 22-29th with ham friends. They used call VP5P in the CQ WPX SSB contest so you would have had to find Ross for his 10-10.
Hal W8HC \#12502 was on for a few days as VP5/W8HC in late April. This was a quick vacation trip for Hal. LoTW.

VP8 Falkland IsI. Bob VP8LP \#8854 was on Ten operating SSB from March to May. Sorry no LoTW.
Z6 Kosovo. Rene DL2JRM \#69623 was using Z68XX in May from Kosovo for only four days.

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

BY China. David K6FA \#5908, landed in Shenyang in April and will stay until mid August 2023. He sometimes uses his remote home station in CA on Ten. His China call will be BY\#/K6FA. LoTW upload in September. Note: the physical antenna determines the DXCC country location.
FP St. Pierre \& Miquelon IsI. Eric KV1J \#31247 is planning a June-July 2023 trip to operate as FP/KV1J.
KH8 Swains Island. A DXpedition is going to Swains from October 4-17th, 2023. The only 1010 member is Max NG7M \#68542, using callsign W8S from six stations split into two separated camps. Web: https://Swains2023.com.
TX Clipperton Island. A large group of ops is going to Clipperton in January 2024 using call TX5S. Members Gene K5GW \#15119, Paul N6PSE \#68859 and Nodir EY8MM \#52767, are all experienced DX ops, so good luck. HISTORY: A 10-10 member using the call FOOXX in April 1985 give some of us a new 10-10 country
V3 Belize. Uwe DL8UD \#70315, will be in Belize from September 6-14th. His new call will be V31KO or maybe V3O if they authorize his special request.

## MISCELLANEOUS ITEMS \& NOTES:

Ten-Ten Website: http://www.Ten-Ten.org.
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.https://Secure.Clublog. org/mostwanted.phphttp://ebarc.org/pdf/dx-entity-history.pdf

## Ham Lookup various ways:

https://Haminfo.tetranz.com/map.
Ham LoTW users: http://www.hb9bza.net/lotw-users-list.

## NEW: WM7D Solar Values:

https://www.wm7d.net/hamradio/solar/

## FT8 Fox/Hound Video:

https://www.YouTube.com/watch?v=GcbtTKSRkus http://WWW.K7UA.com.
Propagation: I expect the solar flux to range from 128-165 this Summer.
The summer solstice is Wednesday, June 21st, it's the longest day of the year and summer starts for us in the northern hemisphere. The Earth is tilted as far as possible, giving us the longest daylight of 2023 in the USA. Cycle 25 started on November 17, 2019. There were sunspots visible on the sun this past quarter with X and M class flares that increased the solar flux accordingly. Sunspots are found by looking at the Sun and the flux is measured at 2.8 GHz .
The 2023 monthly max solar flux: January 234, Feb 215, March 188, April 176, May 180. Average 199.
The 2023 monthly min solar flux: January 136, Feb 134, March 129, April 125, May 134. Average 132.
On June 1st, the solar flux was 161, the $A$ index was 10 and $K$ index was 3. There have been many sunspots on the Sun over the past fifteen months with increased solar flux up 10-30+ points. The USAF flux forecast for June 1 st to July 15 th is from a high of 160 to a low of 130 with average flux of 143 , which is good for DX.
My Prediction: Over the next three months, the best conditions on Ten could be: June 17-20th; July 14-16th; August 10-13th; \& Sept 6-9th. For the USA, expect a $60 \%$ chance of DX to Europe, Asia, S. America or Pacific. Use the beacons $28.175-28.300 \mathrm{MHZ}$ to find if the band is OK and if it's closed for SSB, go to 28074 and FT8 for a Q.
One new DX member joined in March to May 2023. March: none; April: none; and May: Stephan DM4KA \#78183 and this is the highest 10-10 issued to date.

Thanks to the Daily DX by Bernie W3UR \#25731 and the ARRL DX Bulletins. This DX News edition is my number 129th of DXing reports for the past 32 years. DX news to: Mike Davidson, 26274 Whispering Pines Ave, Denham Springs LA 70726 USA and Email: N5MT@aol.com.
DX IS! 73 Mike Davidson N5MT \#24949
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www.ten-ten.org

## 10-10 SCHOLARSHIP FONDATION SUPPORTERS

We encourage all of our members to support the 10-10 International Net Scholarship Foundation. Our goal has always been to fund our scholarships entirely through member donations. At the Scholarship Foundation meeting last June, the Foundation Board voted to guarantee the funding for three $\$ 2000$ scholarships. The Foundation was created in 2001 and is a qualified 501 (c)(3) tax exempt organization and contributions are tax deductible. Why not consider a donation as a Chapter or an individual in memory of a fellow ham or loved one? If you have an employer matching program, please let us know. If you haven't donated before, we want you to know that all donations are appreciated and they do add up. At the time you make a donation to your favorite charity, please consider a donation to the 10-10 Scholarship Foundation
If you make a donation of $\$ 25$ or more you are eligible to receive one of the historic 10-10 pins. As more and more members have told me not to send a pin and want the maximum amount of their donation to go to the students, if you have made a qualifying donation and would like a pin, please contact me at wa2suh@aol.com. TTo pay by credit card see our online payment information or send your check to me or the Data Manager. Our addresses can be found on Page 28.
The members listed below became 10-10 Scholarship Foundation Supporters during the months of March, April and May and we appreciate their support.


| Bronze (Up to \$99) (Cont.) |  |
| :---: | :---: |
| WA7ONE | Ronald McCombs ....................... 29018 |
| NFOJ. | Dave Ruch ................................. 19553 |
| WA5KNC | Eugene Garcia........................... 54011 |
| N7UQ.. | Chuck Dockery ........................... 72774 |
| N8NYI. | Paul Andrews ............................. 73913 |
| KF5LJN. | Michael Griffin............................ 77884 |
| WA4MDP. | Garry Barnette ........................... 78162 |
| N81IM . | Bonnie DeCosta-Downey ............. 78181 |

## 10-10 SCHOLARSHIP APPLICANT INFORMATION

Each year the 10-10 International Net, through our non-profit corporation, the 10-10 Scholarship Foundation, funds three $\$ 2000$ scholarships, which are administered on our behalf by the Foundation for Amateur Radio (FAR). It is suggested that every 10-10 member encourage qualified college-bound amateur radio operators to take advantage of this opportunity. Over the past 35 years, 10-10 has funded 133 scholarships valued at $\$ 177,000$.
Applicants must be licensed amateurs. There is no restriction on the course of study, but applicants must intend to seek at least an Associate Degree from a college or university. Non-U.S. amateurs and those seeking graduate degrees are also eligible, as well as students who study outside the United States. Initial applications must be received by FAR prior to April 15th of each year. Download an application from the
FAR website:http://www.farweb.org or request an application from:

## FAR Scholarships

P.O. Box 911

Columbia, MD 21044-0911


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## Then you should join the Quarter Century Wireless Association, Inc.

## To Join or Renew, Visit:

http://www.qcwa.org/join-renew.php
For more information, please contact: om@qcwa.org


| Friday Nets (Cont.) |  |  |
| :---: | :---: | :---: |
| \|--------------- | 8.380 MH | --------- |
| DATE | TOTAL | NO 10\# |
| 17-Mar | 31 | 3 |
| 24-Mar | 41 | 2 |
| 31-Mar | 37 | 5 |
| Saturday Nets -- 28.380 MHz - |  |  |
| DATE | TOTAL | NO 10\# |
| 7-Jan | 34 | 6 |
| 14-Jan | 6 | 8 |
| 21-Jan | 20 | 1 |
| 28-Jan | 45 | 12 |
| 4-Feb | XX | 4 |
| 11-Feb | 35 | 4 |
| 18-Feb | XX | 0 |
| 25-Feb | 42 | 13 |
| 4-Mar | 1 | 0 |
| 11-Mar | 2 | 0 |
| 18-Mar | 30 | 10 |
| 25-Mar | 2 | 8 |
| XX | NET CALL |  |




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To Join or Renew, Visit:
http://www.qcwa.org/join-renew.php
For more information, please contact: om@qcwa.org




## CHAPTER ENTRIES

| CHAPTER | LOGS | PTS |
| :--- | :---: | ---: |
| POSSUM TROT | 9 | 97 |
| STEAMBOAT | 4 | 34 |
| CATT | 1 | 10 |
| CHIEF SEATTLE | 1 | 1 |

CLUB ENTRIES

| CALL | 10-10\# | CTX W | CTX WO | TOTAL | OPS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| W1NRG | 29650 | 215 |  | 47N1API |  |
| NZ4FF | 77686 | 18 |  | 39N3GTY |  |
| W5RRV | 42114 | 18 |  | 36KD5DE |  |
| K4MN | 24874 | 16 | 3 | 35KM4ODS |  |
| CHECK LOGS |  |  |  |  |  |
| CALL | 10-10\# | CTX W | CTX WO | TOTAL | OPS |
| N6SPP | 77685 | 9 | 3 | 21 | 0 |
| WA3AAN | 61973 | 6 | 1 | 13 | 0 |
| KD4GUB | 0 | 2 | 3 | 7 | 0 |
| AD4TJ | 57559 | 2 | 0 | 4 | 0 |
| LU5DF | 0 | 1 | 0 | 2 | 0 |
| N1MGO | 74973 | 1 | 0 | 2 | 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.

## Point Your Antenna the Other Way Around

I'm sure most of you are aware that "point your antenna the other way around" refers to long path propagation. Whereas short path is the shorter distance between two locations on a globe, long path is the longer distance between those two locations. Long path can spice up your operating on 10 meters.
My first exposure to 10-meter long path was in the 1986 CQ WW DX Phone contest when we lived in the Dallas/Ft Worth area. VS6DO (Hong Kong, which now is VR2) was called in on the local 2-meter DX frequency early on the Sunday morning of the contest. I swung my antenna to the southeast, and easily worked VS6DO.
That QSO piqued my interest in 10-meter long path, but a move back north to Ft. Wayne, Indiana in 1988 got in the way of pursing more 10-meter long path QSOs. But I did do some research and found others who had worked 10-meter long path. My first find was the article by Jerry Hagen, N6AV (SK), in the June 1988 'The DX Magazine'. Included in this article was log data for evening 10-meter long path from California to 3B8 and FR/Tromelin around 0500 UTC.

After getting set up in Ft Wayne with a 4-element 10-meter monobander at 72 feet, I began working Japanese amateurs early in the morning during the spring and summer of 1989 before going to work. One morning I ran into Gus Sandola, K2ARO, in New York. He offered me his 10 meter long path log for his contacts from 1979 through 1993. What a treasure trove of data. Figure 1 shows the number of days in each month in which K2ARO made JA and VK6 QSOs via long path (to the southeast) from his QTH in New York.


Figure 1 - K2ARO 10 Meter Log Data
It's easy to see that 10-meter long path needs sunspots (which are tied to extreme ultraviolet, the true ionizing radiation of the F2 region of the ionosphere). Please note that the smoothed sunspot numbers on the scale on the right side of Figure 1 are the old V1 (version 1) data. Beginning in 2015, the new V2 (version 2) data was released after four workshops were held to review the old data for accuracy. V2 sunspot numbers are now reported by the Royal

Observatory of Belgium. The numbers on the right translate from 50 (old) to 70 (new), from 100 (old) to 140 (new) and from 150 (old) to 210 (new). Thus, K2ARO's data indicate he needed a V2 smoothed sunspot number of about 100 for consistent 10-meter long path to JA and VK6. As a side note, Cycle 25 right now is above a V2 smoothed sunspot number of 100.
If we add up the number of days with 10-meter long path QSOs for all the January months for all years, and do that for each of the other months, we'll conclude that the most productive months were March through October. That says you should be looking for 10-meter long path now. Indeed, I've seen spots for long path QSOs, and they should be more dominant in the next months.
A great question is "what enables 10 -meter morning long path for North America?" To answer that question, let's look at the morning long path from K2ARO to VK6 and JA. Figure 2 does this for an April month.


Figure 2 - K2ARO morning long path to JA/VK6 in April
First, five conditions enable 10 m morning long path. There must be enough sunspots. The east end of the path must be at or a bit after sunrise (to get the MUF up). The west end of the path must not be too far past sunset (after sunset, the F2 region re-combines at a slow rate). The K index must be low (generally less than 3) to assure an undisturbed ionosphere at the high southern latitudes. And there must be someone on the other end.

Second, from Figure 2, you might conclude that long path must be a gray line path (a gray line path is when the entire path aligns with or is near the terminator). But that isn't a necessary condition as seen in Figure 3. Figure 3 is for an October month from K2ARO to JA/VK6. Figure 3 indicates that gray line isn't a hard requirement.


Figure 3 - K2ARO morning long path to JA/VK6 in October
Note that Figures 2 and 3 are for morning 10-meter long path for North
America. They are also for evening 10-meter long path for JA and VK6. This suggests that there can be evening 10-meter long paths for North America. Indeed, there are. Remember the California to 3B8 and FR/Tromelin QSOs around 0500 UTC mentioned at the beginning of this article? 0500 UTC is certainly evening for California.
With help from IOm long path logs from John Warren, NT5C (SK), Bill Kennamer, K5FUV and others, Figure 4 gives an indication of longitudes that you should be able to work - whether it's morning 10 meter long path or evening 10 meter long path.
For example, if you're on the East Coast of North America (blue shading), in the morning you should have paths to the blue shaded longitudes indicated at the top right. In the evening, you should have paths to the blue shaded longitudes indicated at the top left. But always remember that there has to be someone
on the other end. Use the color shading to identity 10-meter long paths for the Midwest (pink shading) and the West Coast (green shading) of North America.

Finally, I maintained daily 10 m long path skeds in the morning with Yutaka (Yuu) Tanaka, JH3DPB (SK), on SSB in April 1992. I wanted to know how long 10m long path from the Midwest to JA could last. My guess was maybe half an hour. But on two days during April, our long path QSOs lasted 2 hours 15 minutes. They started at 6:00 AM for me (8:00 PM for Yuu) and went until 8:15 AM for me (10:15 PM for Yuu).
As expected, the path opened suddenly when the MUF on my end rose to above 28 MHz . The closing of the path was a gradual decrease in signal
strength to the noise level; indicating the role of increasing ionospheric absorption. Yuu's antenna was a 6-element monobander at 110 feet and my antenna was still the 4-element monobander at 72 feet. We both ran barefoot (100 Watts), so the duration would have been even longer if we were at legal limit power.
In summary, Cycle 25 has ascended enough to give us 10-meter long path and it will likely get better as Cycle 25 continues its rise. I encourage you to get on and have fun!
Carl Luetzelschwab K9LA, \#41258
evening long path
morning long path


Figure 4 - Overall picture for 10-meter long path

## Ten-Ten International Website

Ten-Ten International has a website which can be accessed at https://tenten.org. This is a public site with a plethora of information for both members and non-members. The site also provides a special protected area for those members in good standing with paid up dues. Currently we have approximately 5500 registered users on the website.

To gain access to the member areas, you must create an account. These accounts are not linked to the membership database that is maintained by the Dave, K6RDK, the Membership Manager. There are a number of reasons for this, but the driving factor is so we can comply with Europe's General Data Protection Requirements (GDPR). When creating an account make sure you create a strong User Name and Password which goes a long way into hampering the hackers attempting to break in to your account.
In today's world of conducting much of our personal business on-line, we have accumulated a multitude of login credentials and remembering these has become a major issue for many, judging from the daily emails I receive from members who can't seem to remember the login credentials for the web site. There are many solutions out there to help you with remembering and organizing your credentials. The simplest solution is free and you can create this yourself with a simple spreadsheet program such as Microsoft Excel or Libre Office.
In a blank Spreadsheet, create the following Columns at the top: Site Name, Web Address, Login ID, and Password. You can add additional columns for security questions and such. Now start adding in all the sites where you have credentials. In the Web Address column, if you type in a fully qualified Web Address, it will automatically setup it up with the proper linking mechanism so in the future all you have to do is click on the link in the spreadsheet and it will take you directly to the website for login purposes. Before you save the spreadsheet off, you need to protect it with a strong, easy master password to remember. In Libre Office Calc, that is under the Tools Menu. In MS Excel it is located under the Review Menu. Once you save the sheet, you will need the password to open it in the future. One drawback to this is the cipher technology used by Microsoft Excel and Libre Office Calc are totally different so a spreadsheet created with Excel will no longer be readable by Libre Office and the other way around. I have mine saved to my OneDrive account, so it is available to all of my devices.
There are Password Vault programs all over the place, but I strongly recommend you stay away from those as the majority of the free ones have an extremely long, legalese, Terms of Service contract you have to agree to and buried in that contract are agreements for Merchandise Marketing and Ownership of Data.
What happens if I mistype my credentials? That is a very good question and

I'm glad you asked! Mistyping credentials happens all the time, but if you do this action 4 times in succession, you will be locked out of the site by IP address. Additional attempts to access the website will result in a message telling you that you have been locked out due to too many failed login attempts. These are setup to expire after 3 calendar days. You can send an email to webmaster@ ten-ten.org and request that I reset this for you, but I need your IP address to do this. The Local Area Network (LAN) address that is usually formatted as 192.168.x.x will not work. I need the Wide Area Address (WAN). This will normally be the address your Internet Service Provider (ISP) as assigned to your router. But if you are masquerading either the IP address or the MAC address, or you are behind a VPN, then finding that address will be difficult. The moral to this story is to be cautions of what you type and do not exceed 4 failed login attempts.

It is imperative you keep your email address current, not only at the web site, but also with the membership manager. $99 \%$ of communications with members is accomplished via email and that will occur with the email address we have on file. To check to see if your email is current, after you login click on the Membership Menu at the top and select User Profile. You will get a page that looks like this:


If that is not a current email address, then you can change it right there. If you have a need to change your password, this is where you will do it. If your time zone is not correct, you can select the correct one from the Drop-Down box. Everything else should be set as user default. In the event you finally snag that Vanity Callsign you've been hunting down; you can change your callsign here. Click the update button to save your changes. Click the Portrait Tab and here you can add or update your profile picture.
We no longer maintain the update page to the master membership database in order to comply with the GDPR. However, if you need to update any of your information, simply send an email to membership@ten-ten.org with the information that requires updating. Again, a current email address is important.
If you are using an Email Forwarding Service or an Email Spam Intervention Service, then please read the following paragraphs very carefully.
An Email Forwarding Service is a service where one email address will automatically forward that email to another address. ARRL.NET is an example of this type of service and there are many others. Over the past couple of years, I am seeing more and more of these forwards being rejected somewhere along the line for various reasons, but lately the reject reason is simple because of the relay. Forwarded addresses that no longer exist are other reason for these failures. I would recommend not using these services unless it is absolutely necessary.
Email Spam Intervention Service are middle ware services that one signs up for to control the amount of spam email they receive. Essentially, you have a list of approved email senders and if that email address is in the list, the email is then sent to the receiver. If your email address is not in the list of approved senders, you will get an email telling you all about how the user is controlling spam with a link to click on to get approved. If you click on that link, provide your email address, and agree to the Terms of Service that nobody reads, you have just authorized this company to sell and market your email address. Therefore, TenTen International will not, under any circumstance answer these emails. If you insist on using this type of service, then you must manually add ten-ten.org to your list of approved senders.
I have forgotten my login credentials, what do I do now? Simply click on the Forgot Login? Link under the Log In button. If you need a reminder of your user name, click on Lost Username. You will receive an email with the username on record. If you click on Lost Password, you will be asked to provide your username and you will receive an email with a new temporary password. Use the Cut-and-Paste method to login with the new password as it will be a jumble of upper- and lower-case letters, numbers and symbols. Once you are logged in, proceed to the User Profile page we discussed earlier and create a new password that is more to your liking and record that in your password vault.

If you have trouble and need help, send an email to webmaster@ten-ten.org or $\mathrm{n} 7 \mathrm{yg} @ \mathrm{n} 7 \mathrm{yg}$.com and I will try to help as best as I can. There are a lot of things I can do on the administrative side, but I do not have any access to passwords. However, I can change a password if you are willing to send that to me in an email.
Jeff Steinkamp, N7YG, \#65084

# 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 2023

| AJ7B, Randy................................................Editor | N1API, AI ...................................................Committee Member |
| :---: | :---: |
| G4BLH, Mike ..............................................Awards - GB | N3GTY, Bill .................................................Committee Member |
| K1IEB, Tim..................................................Net Control | N5MT, Mike................................................Awards - DX |
| K5BKT, Peg .................................................Committee Member | N6OPR, Bob...............................................Director |
| K5PLH, Phyllis.............................................Historian | N7UQ, Chuck, ................................................Awards - VP WAS |
| K6RDK, Dave ..............................................Data/ Membership Manager | N7YG, Jeff..................................................IT Manager |
| K7CWS, Ray ...............................................Net Control | N9AC, Gerald .............................................W6OI Trustee |
| KC4HIT, Mark ...............................................Awards - Counties | NFOJ, Dave ................................................President |
| KD2NOM, Mark ............................................Director | NP2MR, David.............................................Committee Member |
| KD5DE, Mel................................................Past President / Supplies Mgr | NS6X, John ................................................Committee Member |
| KE0MIZ, Rob...............................................Awards - 1000+ | NZ1I, Kevin................................................Awards - WAC |
| KF4WKY, Mike.............................................Net Control | VA7GY, Garry .............................................Committee Member |
| KG5RJ, Greg...............................................Committee Member | W0FLZ, Paige .............................................Award - Mobile |
| KI5ELV, Thomas ..........................................Awards - VP Bars | W5DJT , David ............................................Committee Member |
| KI6OY, Lee ................................................Awards-CW | W5SUM, Ronnie............................................Vice President / Secretary |
| KJ5SZ, Hugo ...............................................General Counsel | W7WHB, Steve............................................Net Control |
| KM4ODS, George ........................................Director | W9HT, Joshua ............................................Committee Member |
| KM5EH, Marcus ...........................................Director | WA2SUH, Larry ...........................................Director |
| KM5FF, Ed..................................................Awards-WPX | WA4KUP, Brad ............................................Committee Member |
| KR7RK, Keith, .............................................Treasurer | WB0CON, Eva ............................................Awards - WAS |
| KZ3T, Dan...................................................QSO Party Manager | WB6OJB, Arnold.............................................Net Control |

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.

## TEN-TEN AWARDS

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

TOP TEN HONOR ROLL

| No. | CONTACTS | CALL | 10-10\# |
| :---: | :---: | :---: | :---: |
| 1. | 24600 | WA5JDU | 3017 |
| 2. | 11700 | KOPV | 9902 |
| 3. | 11700 | N5XZ | 4530 |
| 4. | 11400 | DL8YBM | 36109 |
| 5. | 10700 | N1API | 25468 |
| 6. | 10000 | K6PZE | 1341 |
| 7. | 9800 | N5DAS | 35877 |
| 8. | 8800 | AC6FU | 10937 |
| 9. | 8800 | N6OPR | 45715 |
| 10. | 8200 | K5FBS | 48461 |
| 1000+ MILESTONE BARS |  |  |  |
| 3700 BAR |  |  |  |
| NO. |  |  | 10-10\# |
| 193 | DLOX |  | 75555 |
| 5100 BAR |  |  |  |
| NO. |  |  | 10-10\# |
| 94 | KD5DE |  | 33513 |
| 5500 BAR |  |  |  |
| NO. | CALL |  | 10-10\# |
| 77 | KB5UNX |  | 64337 |

TOP TEN CLUB

| No. | CONTACTS | CALL | 10-10\# |
| :---: | :---: | :---: | :---: |
|  | 10100 | WDOSFT | 37933 |
|  | 4400 | K6MQ | 71487 |
|  | 3600 | DLOX | 75555 |
|  | 2100 | W8PGW | 74726 |
|  | 1900 | W1NRG | 29650 |
|  | 1200 | NM5MD | 72385 |
|  | 1200 | W4MNM | 75450 |
| OM/XYL AWARD |  |  |  |
| Basic PAIRS |  |  |  |
| NO. | CALL |  | 10-10\# |
| 497 | N5MT |  | 24949 |

25 PAIRS

| NO. | CALL | 10-10\# |
| :---: | :---: | :---: |
| 143 | N5MT | 24949 |

50 PAIRS

| NO. | CALL | 10-10\# |
| :---: | :---: | :---: |
| 76 | N5MT | 24949 |

## AWARDS MANAGERS

|  |  | $45$ | (828) 728-5049 |
| :---: | :---: | :---: | :---: |
| Bar 1000+ | Rob Cromer, KE0MIZ \#77 | 12932 Palamino Place, Wellington, CO 805 | (970) 692-4421 |
| VP Bar | Thomas Cole, KI5ELV \#77743 | 3238 Wagner St., Shreveport, LA 71108 | (318) 617-0562 |
| VP WAS | Charles (Chuck) Dockery, N7UQ \#72774 | 112 S. Rolling Meadows Dr. Wylie, TX 75098 | (469) 829-5462 |
| VP Lucky 13 | Dan Morris KZ3T \#41015 | 3162 Covington Way, Lenoir NC 28645 | (828) 728-5049 |
| WAC | Kevin Gilot, NZ1I, \#72759 | 50 Cindy Lane Mystic, CT 06355 | (860) 572-6086 |
| Counties | Mark Tatlor Murphy, KC4HIT \#57488 | PO Box 936, Conover, NC 28613-0936 | (336) 561-3630 |
| Countries | Mike Davidson, N5MT \#24949 | 26274 Whispering Pines Ave, Denham Springs, LA 70726 | (713) 417-4727 |
| CW. | Lee Zalaznik, KI6OY \#50948 | 334 Olivina Ave., Livermore, CA 94551-6137 | (925) 455-0361 |
| Digital. | Jeff, Steinkamp, N7YG \#65084 | 6765 E. Rosewood Cir., Tucson, AZ 85710. | (520) 546-2290 |
| Mobile | Paige Butler, W0FLZ \#48658 | 21922 36th Ave NW, Stanwood, WA 98292 | (425) 308-5561 |
| OM/XYL | Marcus Lieberman, KM5EH \#71103 | 2300 Hurley Drive NW, Albuqerque, NM 87120-1013. | (505) 836-1724 |
| WAS | Eva Donaldson, WB0CON \#53964 | 12933 W Montana Drive, Lakewood, CO 80228-4244 | (303) 989-0475 |
| WPX | Ed Bryant, KM5FF, \#50356 | 9001 Sunbow Ave SW, Albuquerque, NM 87121-8851 | (505) 934-2100 |
| GB Counties | ike Crawshaw, G4BLH \#18446 | 35 Edward Drive, Clitheroe, Lancashire, England BB7 1 | No Phone |

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chuck@n7uq.com dbmorris315@gmail.com kevinemtid@tvcconnect.net kc4hit@gmail.com N5MT@aol.com lee.zalaznik@sbcglobal.net n7yg@n7yg.com w0flz62@gmail.com buckml@lobo.net wb0con@comcast.net elbble@gmail.com g4blh@zen.co.uk

|  |  | Silent Keys <br> Mark Steele, KD2NOM <br> (\#77596) <br> 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 |
| 01476 | N2VW | John D. Imhof - Westampton, NJ |
| 08859 | K3ZO | Alfred A. Laun - Temple Hills, MD |
| 11081 | K4IN | Gerald J. Coleman - Theodore, AL |
| 12525 | KF7KA | Bruce R. Meadows - Helena, MT |
| 12923 | KOPFV | John W. Lord, IV - Omaha, NE |
| 14852 | W9HWQ | Duane R. Fruechte - Trempealeau, WI |
| 20367 | AB5W | Robert L. Cecil, Sr. - Shreveport, LA |
| 21378 | K7RQ | Harold F. Potter - Mulino, OR |
| 21599 | GI4FUM | David Hutchinson - Antrim, IRL |
| 25998 | UAOSE | Sergey Y. Karpov - Angarsk - Irkutskaya, |
| 28052 | KA9BLW | Ronald L. Smith - DeKalb, IL |
| 28100 | W1IB | Francis A. Baker - Deerfield Beach, FL |
| 31392 | KY1C | Paul E. Gooch, Jr. - Wells, ME |
| 32451 | KO9T | James T. Hammer - Cherokee, IA |
| 32516 | N1BNM | Joseph R. Long, II - Madison, WI |
| 33435 | W4TTF | Willard D. Stevens - Cocoa, FL |
| 34366 | K7GDS | Gary D. Schultz - Lake Oswego, OR |
| 39578 | KY3W | David A. Stout - Berwick, PA |

> 39579 KC3TO Samuel R. Fao - Mount Airy, MD 40296 VE5KZ Jerome M. Kuntz - Regina, SK $40466 \quad$ NR1H Norman E. Roch - West Warwick, RI 41995 KA2WGV Stephen J. Boldis - Williamsville, NY 42901 VE5JAK Jacob A. Kutarna - Lumsden, SK 46281 AL7G James P. Vansant, III - Cordova, AK 46908 KA3FHV Jeffrey D. Rowles - Bridgeville, PA 50416 VE5FN William G. Till - Lloydminster, AB 52262 W4WM Marcus E. Rinks - Old Hickory, TN 52332 NC3T Robert S. Bollinger - Great Cacapon, WV 55888 W5FPT Francis P. Tullier - Jasper, TX 56612 WD8MHL Raymond G. Masko - Medina, OH 58506 KA3NBO Dennis R. Moyer - Reading, PA 60173 KB1Z Henry B. Stevens - Alton, NH 60506 N3IWJ Klaus M. Gross - East Bank, WV 62403 KA1JGQ Warren G. Shadrick - Mansfield, MA 64236 AB2GI Clark W. Gadd - Akron, NY
> 65325 N9PSN Robert J. Widish - Milwaukee, WI
> 66055 V31MD Robert A. Fox - Catskill, NY
> 67416 N9NR Richard A. Shandor - Harland, WI
> 69695 W3IY Carl M. Chernan - Tarentum, PA
> 70878 KO4R Paul F. Chapman-Maryville, TN 72366 W7OM Rodney L. Linkous - Seattle, WA 73602 VE4AHH Harry J. Humby - Winnipeg, MB 75078 KOYNE Paul E. Buresh-Nelson, NE 75966 KCODTD James M. Cline, III - St. Louis, MO 77804 KF7RM Radar S. Matt - Phoenix, AZ

Thanks to Lee - K2HAT - \#76138 for his efforts in helping me keep the sk column as up to date as possible.
Mark 73, KD2NOM \#77596

## The Simplest 3-Element Yagi?

Editor's note: This article is a reprint of an article done by L.B. Cebik, W4RNL (SK), \#41159 in a previous issue of this newsletter.
In a past episode, I describes one of the simplest 2-element Yagis I have encountered. For those who would like a little more gain and a better front-toback ratio, I want to describe a simple 3 -element Yagi. Like the other beam, this one comes from Bill Orr, W6SAI (SK), from his column in Ham Radio for May, 1990.

This beam has two essential items for the casual home builder. First, the antenna has a 50 -ohm feedpoint impedance with a wide SWR bandwidth. In fact, the SWR stats below 1.4:1 up and beyond 29 MHz when the antenna is modeled for 28.5 MHz . Second, the characteristics (gain, front-to-back ratio) are almost constant fr the entire first MHz of 10 meters. The gain ranges from 12.3 to 12.5 dBi , while the front-to-back ratio remains better than 18 dB across the band. Figure 1 is an azimuth plot of the antenna taken every quarter MHz from 28 to 29 MHz at a 35 ' height. The differences from one line to another are too small to make any difference at all.


Figure 1. 28-29 MHz Frequency Sweep on 3-element Yagi
For these benefits, there is a price to pay: lower gain. From a 3-element Yagi on a 12 ' boom, one can squeeze out another dB of forward gain and improve the front-to-back ratio by a couple more dB. However, these beams have two disadvantages for the home builder. First, they have a narrower bandwidth where these properties show up. Beyond certain frequency limits, the pattern begins to deteriorate. Second, the feedpoint impedance requires a matching network. Although adjusting matching networks can become routine, the process can take the pleasure out of building one's first beam that works.

Let's go ahead and build one of these wide-band specials. First, we need some dimensions. Figure 2 supplies the data.


Figure 2. 3-Element Wide-Band Yagi Dimensions
For 10-meters and simple installations, hardware store tubing is convenient and accessible. 1 " aluminum tubing comes in 8 ' sections at most hardware depots. You will need 6 pieces, plus shorter length of $7 / 8^{\prime \prime}$ tubing. You will also need a boom $12^{\prime}$ long. One trick I have used is to take two pieces of $6^{\prime}$ long $1.5^{\prime \prime}$ diameter aluminum tubing and lay then end to end. Now take two lengths of $13 / 8$ " tubing (or $1.25^{\prime \prime}$ if the larger tube is not available). Cut one smaller tube size length in half. Slide 3 ' of the 6 ' length of the smaller tubing inside one end of the larger tubing and fasten with stainless steel sheet meter screws. Slide the other piece of large tubing over the exposed 3 ' of smaller tubing, and fasten. Now slide the 3 ' lengths of the smaller tubing inside each end of the 12 ' boom, and fasten (but in such a way as not to interfere with the element mounting to come). We now have a 12 ' boom adequate for this simple beam.

Now make up $3 / 8^{\prime \prime}$ plywood plates about 6 " wide and 3 ' long. Coat them well against the weather. You can taper the pieces outward from the center to save a few ounces of weight. Find stainless steel U-bolts that go around the boom and around the elements. Let the plates go below the boom, and the element go below the plates.
Notice that two of the elements require aluminum pieces that are longer than the twin 8 ' sections of tubing we bought. Likewise, from the director, we shall cut off short section of tubing. Save them. For the reflector, set the tubes to the required extension. Take a $3^{\prime}$ ' length of the $7 / 8^{\prime \prime}$ diameter tube and slide it inside one of the 1 " diameter elements and fasten with sheet metal screws. Now slide either or both pieces of remnant director tubes over the $7 / 8^{\prime \prime}$ tube and position them so that they fit under the inner U-bolts. Again, fasten them to the $7 / 8$ " tube with screws. Now slide on the other 8 ' reflector section and fasten. The short segments of exposed $7 / 8$ " tubing will make no significant difference to antenna performance. (If you are a perfectionist, you can purchase one extra section of 1 " tubing to make the reflector 1 " in diameter for its entire length.)
Since the director only requires trimming to specification and mounting with a pair of U-bolts on each side of the plate, the last item of concern is the driven element. Mount the element leaving a 6 " space at the center. Slide 18 " sections of $7 / 8^{\prime \prime}$ into each $1^{\prime \prime}$ tube and bring the ends close together. (The perfectionists can cover the exposed $7 / 8^{\prime \prime}$ tubing with short lengths of 1 " tubing for a uniform driven element.) Fasten loosely and begin thinking about a boom-to-mast mounting and a coax connection. A small plate with a coax connector and the shortest possible leads to the antenna elements takes care of the connection. I like to use a 1:1 choke balun of W2DU design (ferrite over a length of coax), and this can be taped to the boom.
Mount the antenna about 10 ' off the ground pointing straight up. Adjust the driven element for resonance. Now get the beam up about 35 ' and begin waiting for sunspots. (Since I wrote this line, of course, the sun spots have returned.)
This beam has only one more element that our 2-element special, but it is twice as large and twice as ungainly with its 12 ' boom. However, its performance improvement over the 2-element Yagi will show up instantly - or as soon as there are some folks to work. You will notice the effects of the added gain and front-to-back ratio on your local net. The bill will come to about $\$ 75$ or so, which is not bad, if you have priced commercial beams lately.
There are 3 -element beams with higher performance figures, but none any simpler to build than this wide-band special.

## 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 $11 / 2$ 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.


Figure 1. Take-Off Angle at Different Heights
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 takeoff 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.

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 $1 / 2$ 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 5/8 wavelength and again at $11 / 8$ wavelength, 10 meter heights of about 22 and 40 feet. Gain dips at $7 / 8$ 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 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.

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 smother 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 rose in real antennas. The exact phase difference between the radiate 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.


Figure 2. Azimuth Patterns at Ditterent Heights
Antennas composed of 2 elements about $1 / 4$ 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.

2023 Ten-Ten QSO Party Schedule
2023 Ten-Ten QSO Party Schedule

| Event | Dates | Postmark |
| :--- | :---: | :---: |
| Weak Signal | July 8-9 | July 17 |
| Summer Phone | Aug. 5-6 | Aug. 14 |
| Sprint | Oct. 10 | Oct 18 |
| Fall CW | Oct. 21-22 | Oct. 30 |
| Fall Digital | Nov. 11-12 | Nov. 20 |
| Anniversary (61) | Jan 1 - Dec 31 | Jan 8, 2024 |
| Meet the Volunteers | Jan 1 - Dec 31 | Jan 8, 2024 |

## WOULD YOU LIKE TO JOIN 10-10?

## Here is what you need:

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

## TYPES OF MEMBERSHIPS

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

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

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

## Life Membership

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

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

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

## Electronic Membership

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

## MEMBERSHIP RENEWALS

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

## DATA MANAGER SERVICES

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

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

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

## SCHOLARSHIP DONATIONS

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

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

## TEN-TEN QSO PARTY RULES

### 5.2 10-10 QSO PARTIES

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

### 5.2.1 WHO IS ELIGIBLE?

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

There are currently nine QSO Parties held throughout the calendar year:
Winter Phone - held on the first full weekend in February
0001 UTC Saturday through 2359 UTC Sunday.
Spring Digital - held on the last full weekend in April.
0001 UTC Saturday through 2359 UTC Sunday.
Spring CW - held on the first full weekend in May.
0001 UTC Saturday through 2359 UTC Sunday.
Open Season (PSK) - held on the first full weekend in June
0001 UTC Saturday through 2359 UTC Sunday.
Weak Signal - held on the second full weekend in July - 0001 UTC Saturday through 2359 UTC Sunday.
Summer Phone - held on the first full weekend in August.
0001 UTC Saturday through 2359 UTC Sunday.
Sprint - a 24 hour event held on October 10th (10-10).
0001 UTC through 2359 UTC.
Fall CW - held on the third full weekend in October.
0001 UTC Saturday through 2359 UTC Sunday.
Fall Digital - held on the second full weekend in November.
0001 UTC Saturday through 2359 UTC Sunday.
5.2.3 FREQUENCY AND MODES

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

### 5.2.4 ENTRY CLASSIFICATION

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

QRP: Includes single station operators and can also include OM/XYL teams or any families or groups of people using individual call signs and 10-10 numbers. CW/Digital/ RTTY operations max 5 watts and Phone operations max 10 watts during the entire event.
LOW POWER: Same as QRP listed above except that output power for CW/Phone/ Digital/RTTY operations is max 150 watts during the entire event.
HIGH POWER: Same as QRP listed above except that output power for CW/Phone/ Digital/RTTY operations is greater than 150 watts during the event.
CLUB: A Club must have a valid club station license issued by their National Licensing Authority and must have an active 10-10 membership. Club entries must list the call, name and 10-10 number (if any) for all operators using the club call. Club operations will take place at one location using one set of equipment. Operators entering under a club entry may also enter an individual log for contacts made using their own call sign.
MOBILE: A mobile applies to car, truck, RV, motorcycle, boat, airplane or other mode of transportation. Use of a base station antenna, amplifier or commercial power is not permitted. Operation while your vehicle is parked across a county line, occupying two counties, counts as two counties and two contacts. Marine and aeronautical mobiles must be able to establish counties of operation. Safety is paramount while operating mobile. If you are unable to park near multiple county lines due to safety issues (i.e. on a bridge, on a freeway, etc.), please move to the closest area which would provide the best operating conditions and still be able to give out multiple counties. Duplicate entries are allowed when working in multiple counties. In addition to the normal log information provided the County Worked from and County worked must also be included. Mobile stations will receive awards within their own category and will not be included in the individual sections or Top Ten in the World. Mobile entries will only be accepted for Winter \& Summer Phone and 10-10 Sprint QSO Parties.

### 5.2.5 TRANSMITTER INFORMATION

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

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

### 5.2.7 QSO POINTS

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

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

## TEN-TEN QSO PARTY RULES

### 5.2.9 QSO PARTY ENTRIES

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

### 5.2.9.1 ENTRY DESCRIPTION

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

### 5.2.9.2 ENTRY DEADLINES

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

### 5.2.10 QSO PARTY RESULTS AND AWARDS

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

### 5.2.11 ANNIVERSARY and MEET THE VOLUNTEERS EVENTS

These events run from January 10001 UTC to December 312359 UTC. In the Anniversary event, entrants may submit a log of contacts with members that have the anniversary year contained in their membership number. Example: 2022 is the 60th anniversary year of 10-10 International Net, Inc. Contact with members containing a " 61 " in their membership number (i.e., 72061, 69615,66154, 61126, 00607) would count toward the event. Each year the anniversary number changes, making a new group of members the focus of the event and promoting the use of the 10-meter band. All general rules are applicable with the following exceptions: During the calendar year (January 1 through December 31) make legal $10-10$ contacts with 10-10 Number, Date, Call Sign, QTH with members containing the anniversary year in their membership number as described above.
In the MEET THE VOLUNTEERS event, entrants may submit a log of contacts with members listed in the 10-10 NEWS as being a 10-10 volunteer. One contact per volunteer is permitted, regardless of mode of contact. In both events, contacts must be made on the $10-$ meter band with any legal mode (AM, SSB, FM, PSK, CW, etc.). All submitted logs
must contain only one entry for each 10-10 number contacted. Contacts MUST be listed in 10-10 number order and each entry must list the 10-10 Number, Date, Call, Name, QTH and Mode, in that order. These events are for Individual entries as described in section 5.2.4 and certificates will be awarded for the TOP Ten, however all entrants will be listed in the 10-10 NEWS.
Logs MUST be postmarked no later than January 8th of the year following both the Anniversary and Meet the Volunteers events. Only members in good standing (with dues paid) are allowed to submit logs.

### 5.2.12 WEAK SIGNAL QSO PARTY (WSQP)

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

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\begin{array}{ll}
\text { FT4 (28.180) } & \text { FT8 (28.074) } \\
\text { JT65 (28.076) } & \text { JS8/JS8CALL (28.078) }
\end{array}
$$

Entry categories: QRP - Maximum 10 watts output.
Low Power - Maximum 150 watts output.
Exchange: 10-10 members should send call sign, name, 10-10\# and QTH (ST/Prov/ Country). Received exchange should include normal exchange for FT/JT/JS8/JS8CALL modes and for extra points name, QTH and 10-10\#. Scoring will be 1 point for contacts without a 10-10 number and three (3) points for contacts with a valid 10-10\# exchange. NO MULTIPLIERS! All other normal rules apply. Logs shall be forwarded to the QSO Party Manager..
5.2.13 10-10 SPRINT (October 10) QSO PARTY

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

### 5.2.14 W6OI SPECIAL EVENT

## This event has been postponed until further notice.

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

### 5.2.15 FOR MORE INFORMATION

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

## 10-10 QSO PARTY COVER SHEET

## QSO Party (select one):

- WINTER PHONE - SUMMER PHONE


## Contest Exchange:

Callsign: $\qquad$ Name: $\qquad$ 10-10\#: $\qquad$ QTH*:

- SPRING CW
- FALLCW

PRING DIGITAL
FALL DIGITAL

- 10-10 SPRINT
- WEAK SIGNAL


## Entry Information:

Name: $\qquad$
Mailing address:
City:
$\qquad$

State/Province/County:
Your e-mail address (for contest questions only):
Call Area (W0-W9) or ARRL DX Country you operated from:
Chapter Assignment, if any (not valid in Sprint):
Entry Type (check one only):

- LOW POWER
- HIGH POWER a QRP
- MOBILE
CLUB (if Club station, please list all operators below this line)


## Claimed Score:

Contacts WITH 10-10 number: X2 = $\qquad$
Contact WITHOUT 10-10 number: X1 = $\qquad$
Total Contacts: $\qquad$ Total Pts: $\qquad$

## Submitting Logs:

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

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

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

EMAIL to: tentencontest@ten-ten.org.

