

News from



The GLORIOUS SOCIETY OF THE WORMHOLE

July 2022

Hello Worms

It's been near a month since we lost Mike but I still get surprised when I think of him. He is and will be missed. Unfortunately, one of the things I think about is the website and needing a webmaster. Whether we gain access to the website or not we will need a webmaster. If anyone is interested let me know. Or do you know someone interested.

We also do not have access to the Wormhole MailChimp mailing list. I am using an old list with a few added. If you do not get this let me know ;-)

I am sending the Newsletter as an email. I write it in 2019 Word but assume that if I sent it as a Word doc many could not open it. Let me know what you think.

The Hillsborough County ARES/RACES did Field Day this year in a much more serious way. We have a new member who is a fairly new ham who went to Extra in a few months. She was really pushing me to get things going. We did ok for having so many new/inexperienced people. We could have run three stations GOTA. It was good but two days of long hours needed to escort everyone.

I have a lot on my plate this month so the newsletter is pretty sparse. A good reminder that I welcome input from members. Find something good .. or write something good let me know. I can always use new input.

We will meet face to face for those who wish to do so. If Alan is in attendance or we meet inside, we will broadcast the meeting on the repeater and video. We will meet at the regular meeting time of 1100 on Saturday morning at the Lurie Civic Building on the St Petersburg College campus in Seminole. Turn west at the light at 113th St N and about 92nd Ave N. It's the first building on the north side. Here is a link to a Google map : [Google Maps](#) . There are a few parking spots in front the Chamber building but if you go another 100 yards past you can park in the college parking lot which is a lot closer to the outside meeting area. Double

parking is fine since we will be able to find the owner to move his vehicle if necessary. Below is the Zoom information. I only have one Zoom meeting I use for everything , same link and same passcode as every month ;-)

Topic: Bill Williams' Zoom Meeting
Time: This is a recurring meeting Meet anytime

Join Zoom Meeting
<https://zoom.us/j/2737114584?pwd=d1BETHVOQ21vWWZXZ0lYQ0FIWWtldz09>

Meeting ID: 273 711 4584
Passcode: worm

We will try to keep the net up without a net control. If you are interested in being our net control station let me know.

BRING YOUR CHAIR and lunch! There are a few picnic benches if you do not have a folding chair but they are not comfortable for most of us. We will not be cooking but we have access to the Chamber of Commerce building which has a microwave and a toaster oven so you can heat up/cook what you bring. Also bring your lunch and coffee if you want it. We will meet inside if the weather is or looks like it will be bad.

*** PRACTICAL USE OF DECIBEL AND SWR VALUES.2***

Ralph WD0EJA

Last month a brief definition of a decibel was explained, along with the formula for power gains or losses.

We normally keep track of our Standing Wave Ratio. Some meters have a scale that indicate Reflected Power Percentage. Such as a 3:1 SWR indicates reflecting 25% power. Sounds like quite a loss, but how much is it in what we hear?

To give you an idea of how much difference you will actually hear, we will use a simple example.

Our Load is a resonant antenna or a pure resistive load at values other than 50 ohms. Either way the Load looks the same if we are right at the resonant point of the antenna.

Now we can look at a nomograph. What is that? Ho ho, it makes life simpler. It has forward power (horizontally) compared to reflected power (vertically). There are several straight lines at a 45 degree angle across the graph that represent various SWR values.

We will pick an unacceptable SWR like 10:1. On the SWR meter it will appear like nothing is going out. However on the nomograph at 10 watts forward, it shows reflected at 5 watts. Only half the power measured is reflected. How does that calculate in dB?

Using our formula from last month it figures at 2.3 dB loss. With most receivers this will be a little over 1/3 of an S unit. However at the same time, our ears will detect the loss.

This figure will vary with loads that are not a pure resistance and will increase loss with frequency. However it gives you an idea of what your actually loosing. So why is it at a 10:1 SWR you are not getting heard at all?

This is not due to reflected loss. The solid state radios will only provide a small amount of power out at this high of SWR.

If you are at 10:1 SWR due to moving frequency from where your SWR is 1:1, you will find by using a Tuner to cancel the reactances, you will allow the radio to put full power out.

Many have been surprised that communications can do well with this high mis-match when compensated by a Tuner.

This is a very controlled example, just to give you an idea of what a loss may sound like. It can get quite complicated, however, unless we are into antenna design, it is not necessary to be overly concerned.

If you are dealing with a high SWR, use the Tuner to reduce it. This will allow the radio to put maximum power out and it is a protection to the transistorized power amp. In many cases performance will be fine.

73,

Ralph WD0EJA
June 2022



CLUB MEETING

We will again have a face to face club meeting in July. We will try to keep up on the 2M and also video concurrent on a video service. The meeting will be held at the Lurie Civic Building which is the new Greater Seminole Area Chamber of Commerce. It is located on the St Petersburg College campus in Seminole. Turn west at the light at 113th St N and about 92nd Ave N.



CLUB NETS

Check in on the club net Thursdays at 1930 and 2000 (or at the end of the 2M net). 2M at 146.850 – with a tone of 146.2. Our 6M net runs after our regular 2M net on 53.150 – 1MHz offset 146.2 tone.



LOCAL NETS

MONDAY

1830 147.060+ no tone	St Pete ARC daily net	St Petersburg
1900 144.210 USB	CARS, vertical polarization	Clearwater
1900 147.135 +146.2	Zephyrhills ARC	Zephyrhills
2000 147.165+ 136.5	Brandon ARS	from Brandon
2000 50.135	Pinellas ARK	Pinellas County
2030 NI4CE system	EAGLE Net, NTS traffic net,	NI4CE system
2030 145.450	Pinellas ARK	Pinellas County

TUESDAY

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 50.200 USB	6M net	Brandon ARS
1900 28.365 USB	10M Net	Clearwater

1900 NI4CE system	WCF Section VHF ARES	NI4CE system
1930 145.170 & 442.4 both pl 156.7	Pinellas ACS net	Clearwater
1930 444.900 +141.3	Sheriff's Tactical ARC	Tampa
2000 NI4CE system	WCF Skywarn net	NI4CE system
2000 147.105+ 146.2	Tampa ARC net	from Tampa
2000 28.365 USB	simplex	Brandon ARS
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 28.465 USB	10/10 net	from Orlando
1900 146.490 simplex	3 RD Tuesday monthly, Hillsborough Co ARES simplex Net	

WEDNESDAY

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 147.165 + 136.5	Humpday Net	from Brandon
1930 52.020 simplex	Suncoast 6'ers	from St Petersburg
1930 NI4CE system	WCF Section Digital Info Ne	NI4CE system
2000 147.105 146.2	Greater Tampa CERT net	from Tampa
2000 146.97- 146.2	Clearwater ARS	from Clearwater
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 NI4CE system	Tampa Bay Traders Net	non-affiliated
0000-2359 HF Winlink	Winlink Wednesday Net https://winlinkwednesday.net/reminder.html	

THURSDAY

1800 146.52 simplex	Hillsborough ARES/RACES	North Tampa
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 444.750 +146.2	Fusion net	from Tampa
1915 224.660- no tone	St Pete ARC	from St Petersburg
1930 146.6385 -127.3	Lakeland ARC	from Lakeland

1930 444.225 + 146.2	Hillsborough ARES/RACES	from Tampa
1930 146.850- 146.2	Wormhole	from St Petersburg
2000 53.150 -1MHz 146.2	Wormhole	from St Petersburg
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
FRIDAY		
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 3.830 LSB	Brandon 80M Net	from Brandon
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
SATURDAY		
0730 3.940 (7.281 Alt.)+/- QRM	WCF Section HF Net	from WCF
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
SUNDAY		
0800 3.933	Florida Traders Net	non-affiliated
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1930 NI4CE system	WCF Section Net	NI4CE system
2000 147.550 simplex	550 Simplex Net	Pinellas County
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 144.210 USB	Clearwater ARS	vertical orientation

FOR SALE / WANTED

Anyone having something for sale or who might be looking for an item let me know. I will not print phone numbers or email addresses unless specifically told to since this newsletter might end up on the web. The exception is when I get the information off the web. If you are a member of the Wormhole then you can ask club members for the persons contact information.

If you are not a member ... why not? OK, if you are not a member you can contact me at the email address at the end of this newsletter, I will give you the information to contact the person involved.

FOR SALE,

HAMFESTS

2022

- August 13 Fort Pierce, Treasure Coast Public Safety Training Complex, 4600 Kirby Loop Road, ALL INDOOR, Gate \$10, table \$15, electric \$5, talkin 147.345 +107.2, for info and tickets goto <https://fparc.org/>
- August 20 **TARCFest** TARC Clubhouse, 7801 N 22nd St, \$5 entry includes tailgate, a few inside tables reserved in advance, talkin on 147.105 +146.2, more info at <http://hamclub.org/>
- October 15 Bradenton, 2nd Annual Manatee Amateur Radio Club Swapfest, 2113 Morgan Johnson Rd, Talk-In 146.820 – 100.0, info Michael Ryan , K4CVL ,941-376-6453, mryan5200@gmail.com, no info on website
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- November 12 Pinellas Park, **SPARCFest**, admission FREE, tailgate free, Freedom Lake Park, 9990 46th St N, Southeast corner of US 19 and 49th Street, Talk-in on 147.060+ no tone. VE testing at 0900. For more information go to <http://www.sparc-club.org/sparcfest.html> or email kc1yl@yahoo.com
- December 9 & 10 **Plant City, the 2022 Tampa Bay Hamfest and West Central Florida Section Convention**, Friday and Saturday, at the Strawberry Festival grounds, admission \$10, 16x40ft tailgate space \$10, electric \$5, for information contact Bill Williams AG4QX, chairman@fgcarc.org or go to <http://www.tampabayhamfest.org> or you can just ask me, Jim or Dee at a meeting ;-)
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Mid January	Adventure Run, Honeymoon Island
Last full weekend January	Winter Field Day https://www.winterfieldday.com/
Late January	Gasparilla celebration
Late February	West Central Florida Tech Conference http://arrlwcf.org/wcf-special-events/wcftechconference/
March	MS 150 Citrus Tour bike ride http://www.citrustour.org/register.php
March/April	MS Walks
March/April	Mass Casualty Exercises
Late April	Southeastern VHF Society Conference, http://www.svhfs.org
Late April	Florida QSO Party
Mid May	March For Babies (was March of Dimes) https://www.marchforbabies.org/Registration/Events
Mid May	Annual Armed Forces Crossband Test
Mid-May	Florida Hurricane Exercise
Late May	Dayton Hamfest
May, Memorial Day Weekend	Wormfest
First weekend in June	Museum Ships on the Air
Fourth weekend in June	Field Day http://www.arrl.org/contests/announcements/fd/
July 3/4	Midnight Run in Largo http://www.kiwanismidnightrun.com/
Third weekend in August	International Lighthouse/Lightship Week https://illw.net/
October, 3 rd weekend	JOTA, Scout Jamboree-on-the-AIR (around 14.280MHz)
Early December	ALS bike ride in Walsingham Park
December, Second weekend	Tampa Bay Hamfest http://www.fgcarc.org/

YOUR WORMHOLE OFFICERS

Bill AG4QX is President and editor of this newsletter, Treasurer is Jim KD4MZL, Paul KA4IOX is the Secretary, Dee N4GD is the Repeater Trustee and Mike K4ZPE is both our club Vice President and webmaster.

YOUR WORMHOLE REPEATERS

53.150 -1Mz PL 146.2

442.625 +5Mz PL 146.2

146.850 - 600Kz PL 146.2

The Wormhole 2M and 440 repeaters are both now dual mode Yaesu DR-1X. FM analog as always and Yaesu Fusion, a C4FM digital mode.

The Wormhole website is at: <http://www.TheWormholeSociety.org>.

West Central Florida Section website: <http://www.arrlwcf.org/>.

The ARRL website is at: <http://www.arrl.org/>

This newsletter is written for The Glorious Society of the Wormhole, an ARRL affiliated amateur radio club located around the Seminole section of Pinellas County Florida. Anyone wishing to be added or removed from The Glorious Society of the Wormhole mailings please write to me at the address below and thy will be done.

73,

Bill Williams

AG4QX

[ag4qx AT arrl DOT net](mailto:ag4qx@arrl.net)