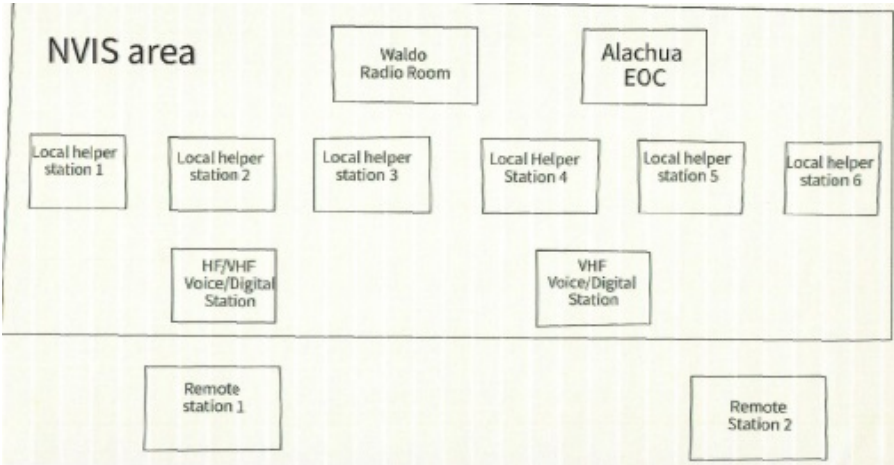



North Florida Amateur Radio Club / AlachuaARES(R) MAR 2023 MEETING
 Tentative Program, Wednesday, MARCH 8
 Version 1.0

<p>HYBRID In Person / Zoom Meeting</p>	<p>QUEEN OF PEACE ROOM FIVE in a building that is part of the ORIGINAL Queen of Peace</p>  <p>1. EQUIPMENT. The room has a BOARD and a TV. The Red ARROW above points at the room. 2. YOUR EQUIPMENT: <i>Nothing special this meeting.</i> 3. WIFI: I have discovered that my Lenovo computer can act as a "hotspot" from a WIFI -- the name will be GordonLenovo Password: testtest</p>
<p>ZOOM ACCESS</p>	<p>Join Zoom Meeting https://us02web.zoom.us/j/89530741792</p> <p>Meeting ID: 895 3074 1792 One tap mobile +19292056099,,89530741792# US (New York) +13017158592,,89530741792# US (Washington DC)</p> <p>Dial by your location +1 929 205 6099 US (New York) +1 301 715 8592 US (Washington DC) +1 312 626 6799 US (Chicago) +1 669 900 6833 US (San Jose) +1 253 215 8782 US (Tacoma) +1 346 248 7799 US (Houston)</p> <p>Meeting ID: 895 3074 1792 Find your local number: https://us02web.zoom.us/j/89530741792 The Zoom is never perfect, but perhaps this week I'll remember to grab the amplified speakers....</p>

Have something you'd like on the AGENDA?? Speak up, we will create room for you!!

Time	Item	Presenter
6:30 PM	Informal Get to see folks and get your ZOOM working We will be in ROOM FIVE	Jeff Capehart
7:00-7:03	Introductions!	Jeff Capehart W4UFL
7:03-7:05	Approval of FEB Minutes https://qsl.net/nf4rc/2023/NFARC%20Minutes%20February%202023.pdf	Leland Gallup
7:05 - 7:25 (20 min) PLEASE READ THE EXERCISE BEFORE THE MEETING TO AVOID HAVING TO REHASH EVERY DETAIL	<p data-bbox="347 655 1252 724">PROPOSED FUNCTIONAL EXERCISE https://qsl.net/nf4rc/2023/NVIS-VHFGTMOFunctionalExercise.pdf</p>  <p data-bbox="347 1226 1252 1409">If we're going to perform this exercise, I would suggest that we encourage ALL BADGED VOLUNTEERS to certainly take part in some shape or fashion, and that we encourage AS MANY ADDITIONAL AS POSSIBLE also! Be inclusive! Although Reid has only 12 stations (minimum) I suspect he could handle more.</p> <p data-bbox="347 1444 1252 1482">The EOC expects that volunteers will be involved in ongoing training.</p> <p data-bbox="347 1518 1252 1627">Possible Date? What about Saturday April 8, which allows GARS to have discussed it also, and us to have a LABNLUNCH to build some more deployable antennas as well...</p>	Reid Tillery
7:25-7:40 15 Min	REPORT ON MAKING THE EOC STATION PORTABLE We determined that that we need to have continuity of equipment from the EOC radio station and a go-box has been created but some alternatives have been proposed. FIELD DAY looms in front of us and Leland and David Huckstep are working on some ideas for all of us to consider.	Leland Gallup David Huckstep

Time	Item	Presenter
7:40-8:10 30 min	<p data-bbox="350 289 954 321">MISSION DISCUSSION TO HINTERLANDS</p> <p data-bbox="350 363 1239 506">Brett (and Craig Fugate) have brought up concerns about <u>how best to carry out a mission, if we were asked to provide communications in, say Hawthorne, or Micanopy or Citra or High Springs</u> -- where 146.820 repeater coverage may be a bit iffy.</p> <p data-bbox="350 548 1227 690">Presume that X number of facilities or positions or situations need to be covered (you decide what X is likely) and that our repeaters are questionably up to the task. How to provide tactical and logistical (detailed) comms support?</p> <p data-bbox="350 764 1227 869">Would like to reach group consensus and BUY IN on what solutions the group would like to utilize, and commitment to utilize or build as needed.</p>  <p data-bbox="350 1577 1227 1759">I tried to list as many suitable techniques that could be COMPARED AND CONTRASTED BY THE GROUP as possible -- these were published on the Groups.IO for discussion. There may be additional techniques. I'm hoping Brett & the group will reach a consensus on which are part of our solutions and to what extent.</p>	Brett Wallace NH2KW

Time	Item									Presenter
	Technique for edge of county applications	Bitrate	Req. infra-struct	Path dB SNR required	Pwr Req	# ops capable	Cost ea.	Wt ea.	Ant considerations	
	1. HF NVIS voice	Voice	None	+10dB	?100-500	50%?			Length: Med to long	
	2. HF NVIS JS-8 data	Slow	None	-30 dB	5-20	20% ?			Length: Med to long	
	3. HF NVIS or distant Winlink data	Mod	Exists widely	+4 dB	5-20	30%?			Length: Med to long	
	4. VHF FM voice	Voice	Rep. - human or machine	+4dB	? depends on repeating	100%			Height: Modest (10-20')	
	4B: (Portable UHF repeater)	Voice	(item)	+4dB	20W	All	Est. \$250	Est 10-20 lbs	Perf. Depends on HEIGHT	
	5. VHF FM VARA	Fast	Exists countywide : NF4R C-7 W4D FU-?	+4dB	? depends on repeating	40%??			Height: Modest (10-20')	
	5B:	Fast	(item)	+4dB	20W	(All -	Es	Est	Perf.	

Time	Item	Presenter																																				
	<table border="1" data-bbox="350 239 1248 695"> <tr> <td data-bbox="350 239 488 428">(Portable VHF VARA digipeater)</td> <td data-bbox="493 239 574 428"></td> <td data-bbox="579 239 660 428"></td> <td data-bbox="665 239 747 428"></td> <td data-bbox="751 239 833 428"></td> <td data-bbox="837 239 919 428">turn key)</td> <td data-bbox="924 239 1005 428">t \$300</td> <td data-bbox="1010 239 1091 428">10-20 lbs</td> <td data-bbox="1096 239 1248 428">Depends on HEIGHT</td> </tr> <tr> <td data-bbox="350 434 488 518">OTHER OPTION</td> <td data-bbox="493 434 574 518"></td> <td data-bbox="579 434 660 518"></td> <td data-bbox="665 434 747 518"></td> <td data-bbox="751 434 833 518"></td> <td data-bbox="837 434 919 518"></td> <td data-bbox="924 434 1005 518"></td> <td data-bbox="1010 434 1091 518"></td> <td data-bbox="1096 434 1248 518"></td> </tr> <tr> <td data-bbox="350 525 488 609">OTHER OPTION</td> <td data-bbox="493 525 574 609"></td> <td data-bbox="579 525 660 609"></td> <td data-bbox="665 525 747 609"></td> <td data-bbox="751 525 833 609"></td> <td data-bbox="837 525 919 609"></td> <td data-bbox="924 525 1005 609"></td> <td data-bbox="1010 525 1091 609"></td> <td data-bbox="1096 525 1248 609"></td> </tr> <tr> <td data-bbox="350 615 488 699">OTHER OPTION</td> <td data-bbox="493 615 574 699"></td> <td data-bbox="579 615 660 699"></td> <td data-bbox="665 615 747 699"></td> <td data-bbox="751 615 833 699"></td> <td data-bbox="837 615 919 699"></td> <td data-bbox="924 615 1005 699"></td> <td data-bbox="1010 615 1091 699"></td> <td data-bbox="1096 615 1248 699"></td> </tr> </table> <p data-bbox="350 772 1248 846">Whatever we conclude are the appropriate solution or solutions -- we need to get behind MAKING THEM HAPPEN!!</p> <p data-bbox="350 884 1248 1066">I have tried to avoid imposing anything other than THE GROUP NEEDS TO REACH CONSENSUS BEFORE WE START. I don't have any other dog in this race...than the GROUP REACHING CONSENSUS. I can support anything that the group wishes. G. Gibby</p>	(Portable VHF VARA digipeater)					turn key)	t \$300	10-20 lbs	Depends on HEIGHT	OTHER OPTION									OTHER OPTION									OTHER OPTION									
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8:10-8:15 5 min	<p data-bbox="350 1083 1248 1188">Tower Trailer Planning / Progress -- Review of ideas for mounting repaired Alumataower on 16 foot trailer</p>	Stewart Reissener KK4DXF																																				
8:15-8:25 10 min	<p data-bbox="350 1247 1248 1346">REPORT ON THE COUNTY EXERCISE HSEEP Functional Exercise carried out by County Department Our people used as evaluators/controllers</p>	Leland Gallup Brett Others																																				
8:25-8:35 10 Min	<p data-bbox="350 1373 1248 1587">LAB N LUNCH - March 25th 9:1 Baluns for simple / cheap / efficient deployable HF Antennas Require some form of antenna tuner. Expect cost to be in the \$20-25 range FT-240-43 core (allows up to say 300 watts) Low loss wiring, Coax connector. Match NON RESONANT Antenna wire length</p> <p data-bbox="350 1625 1248 1698">According to this source: https://www.balundesigns.com/content/WireLengthsfor4and9-1ununs.pdf</p> <p data-bbox="350 1703 1248 1734">You should use <i>any</i> of these lengths for 160-10 meter operation</p> <table border="1" data-bbox="350 1738 1248 1822"> <tr> <td data-bbox="350 1738 448 1822">53 ft</td> <td data-bbox="453 1738 550 1822">59 ft</td> <td data-bbox="555 1738 652 1822">72 ft</td> <td data-bbox="657 1738 755 1822">88.5 ft</td> <td data-bbox="760 1738 857 1822">98.5 ft</td> <td data-bbox="862 1738 959 1822">124.5 ft</td> <td data-bbox="964 1738 1062 1822">146 ft</td> <td data-bbox="1066 1738 1164 1822">162 ft</td> <td data-bbox="1169 1738 1248 1822">175 ft</td> </tr> </table>	53 ft	59 ft	72 ft	88.5 ft	98.5 ft	124.5 ft	146 ft	162 ft	175 ft	Gordon Gibby																											
53 ft	59 ft	72 ft	88.5 ft	98.5 ft	124.5 ft	146 ft	162 ft	175 ft																														

Time	Item	Presenter				
	<p>According to the SAME source, if all you need is 40m through 6m, you could use any of these lengths:</p> <table border="1" data-bbox="347 342 1255 394"> <tr> <td data-bbox="347 342 647 394">36 feet</td> <td data-bbox="652 342 953 394">44 feet</td> <td data-bbox="958 342 1255 394">49 feet</td> </tr> </table> <p>IT IS RECOMMENDED THAT YOU USE A 1:1 "CHOKER" BALUN AT THE TRANSMITTER END BECAUSE THESE 9:1 BALUNS WILL HAVE COMMON MODE CURRENTS ON THE OUTSIDE OF THE COAX.</p> <p>(I always have a 1:1 choke Balun built into my HF go box.)</p> <p>The reference indicates they think you will be able to match with a simple "internal" tuner capable of only maximum 3:1 fixes.....I'm not quite so confident. I would recommend either an external manual or auto-tuner.</p> <p>This is roughly the SAME type system that has been in use on the KX4Z (ham) winlink RMS station for a year with good results. It DOES NOT HAVE ANY BUILT IN LOSS to make any swr "look better" It will radiate MORE SIGNAL than some commercial systems costing 10x the price....but you are MORE LIKELY to need a tuner with a non-lossy antenna....than you are with an intentionally tailored loss-based system. Remember, the BEST SWR is found with the WORST RADIATING ANTENNA....the 50 ohm dummy load.</p> <table border="1" data-bbox="347 1236 1255 1293"> <tr> <td data-bbox="347 1236 1255 1293" style="text-align: center;">NEED SIGN UP BECAUSE I HAVE TO ORDER PARTS</td> </tr> </table>	36 feet	44 feet	49 feet	NEED SIGN UP BECAUSE I HAVE TO ORDER PARTS	
36 feet	44 feet	49 feet				
NEED SIGN UP BECAUSE I HAVE TO ORDER PARTS						
8:35	ANYTHING ELSE???					
	ADJOURN					