VHF SIMPLEX TESTING

ALACHUA COUNTY

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Simplex Testing Goals

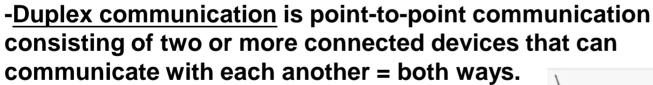
- The goal of simplex testing is to determine <u>who</u> in Alachua County can communicate with who using 2 meter (145-147 Mhz) without the using a repeater

- Alachua County amateurs have a place to go to find out who they can communicate with on 2 meters

- Create an interactive computerized map for use by amateurs and/or Emergency Operation Centers

What is Simplex Communication

-<u>Simplex communication</u> is one-way communication where information is transmitted from one device to another, but the receiving device does not send = one way.







Why use simplex communication

1. It is much easier and faster to test and collect data using only simplex.

2. Data collected using simplex can be used to determine both simplex and duplex communication

3. If station A can hear station B and B can hear station A then you have verified duplex communication

The Simplex Testing process 1 of 3

1.Compile a list of Amateur transmitters

2.Select a date, time and Test/net controller

3. Produce an "Alachua County Simplex Test Data Form"

The simplex testing process 2 of 3

	ua County Sir est Data Form	•	Test Controller	KQ4JBR			
Simplex Frequency	Date/Time	Test #	Alachua Section	Listening Station			
146.55	4 May 24 7pm	S2-24	All	KK4KRZ			
Order of Transmit	Transmitter Call Sign	Heard X or 0	Comments Melrose East Alachua County At Alachua EOC				
1	K9RFT	0					
2	KO4ZSD	x					
3	K4GLM/K4GNV	0	At Waldo EOC				
4	KO4LBS	x					
5	KO4MLY	x	West Hills Neighborhood				
Location	Antenna	Ant. Height	Radio (circle one)	Base Station,Mobile,HT			
West Alachua Co.	Ed <u>Fong</u> slim jm	38'	Base Station 50 watts				

This test data form is for the recording of simplex transmissions. Mark and X for heard and a zero if not heard. Leave blank if station did not transmit. Put your listening call sign in block. After the test please input information on the on-line spreadsheet (if you can) and send this form via email to authorlorilynroberts@gmail.com or mikeham73@yahoo.com

The Simplex Testing process 3 of 3

4. Place the Test data form on the GARS website

5. Announce the Simplex Test via email and any other means Direct participants to the GARS web to download the Test data Form

6. Conduct the Simplex Test using the 146.820 repeater and a non-repeater frequency

7. Participants send in their completed Simplex test Data Forms

8. Update the On-line Simplex Connection Spreadsheet.

Alachua County Simplex Connection spreadsheet

	А	В	D	E	F	G	н	1	J	К	L (، ٥
1	YELLOW IS LISTENER											
2	PALE GREEN IS TRANSMITTER	* means email indiv	146.52 (SE) SIMPLEX	146.025 SIMPLEX	146.49 SIMPLEX	146.55 SIN	VIPLEX					
3	X means YOU in the left coluum heard the call sign at the top of the column, H, I, J, K et cetera		Rig details, antenna, ht	Email	callsign	QTH	EOC NF4AC	KO4LBS	KO4ZSD	W2TTT	KX4Z	ААЗҮВ
4												
5	Lorilyn Roberts	13 stations	Icom 4100, 50 watts, ant 20 ft	authorLorilynRoberts@gmail.co	KO4LBS	EL89TQ	x	SELF	Х			
6	Eric Pleace	4 stations	IC2730 50w attic EdFong	epleace@gmail.com	KO4ZSD	EL89TP		Х	SELF			
7	Gordon Beattie	0 stations	ICOM IC-9700, 100 W, X-6000A, 35 fee	w2ttt@att.net	<u>W2TTT</u>	EM80JH				SELF		
8	Gordon Gibby	4 stations		docvacuumtubes@gmail.com	<u>KX4Z</u>	EL89QP	X (beam only))			SELF	Х
9	Brad Swartz	0 stations	IC-9700, 100W, X-6000A, 30ft	dbswartz8@gmail.com	<u>N5CBP</u>	EM80PD						
10	Jeff Capehart	0 stations		jeffcapehart@gmail.com	W4UFL	EL89TQ						
11	NF4AC EOC	15 stations		docvacuumtubes@gmail.com	NF4AC			X(str)			(Yagi only)	
12	Leland Gallup			gallupleland@gmail.com	AA3YB	EM80JH						SELF
13	David Huckstep	12 stations	IC-9700,100W, Diamond X-6000, 31FT	dbhuckstep@cox.net	<u>W4JIR</u>	EL89SP	х	Х	Х		Х	Х
14	Wendell Wright	7 stations	Yaesu 2800m copper J-pole 25'	wwright3690@gmail.com	KN4TWS	EL89RP		Х	Х			
15	Earl McDow	9 stations	IC-706MKING 6w 45ft high copper pipe J	earlmcdow@gmail.com	<u>K4ZSW</u>	EL89TQ	х	Х				
16	Susan Halbert	0 stations		stegophylla1@gmail.com	KG4VWI	EL89RO						
17	Judith R. Jones* NW	7 stations	IC-746Pro,35ft., J-pole	ki4qbz@gmail.com	<u>Ki4QBZ</u>	EL89UP	х	Х				
18	Randy Carter	1 station	TS-2000,100W,G5RV	n4ays@juno.com	<u>N4AYS</u>	EL89TQ		Х				
19	Vann Chesney			vochesney@gmail.com	AC4QS	EL89RQ						
20	Amy Woods			amywoods19@bellsouth.net	WA4AMY	EL89OO						
21	Reid Tillery	1 station		reidtillery@gmail.com	<u>K9RFT</u>	EL89XR	х	х				
22	Dean Covey	2 stations		coveycd@outlook.com	KV4RL	EL89TQ		х				
23	Bob Lightner	0 stations		bobw4gj@gmail.com	W4GJ	EL89TQ		х				
24	Steve Panaghi	0 stations		spanaghi@hey.com	KC2ASY	EL89QP						
25	Craig White	5 stations		craigwhite4881@gmail.com	KO4ZRZ	EL89SP	х	х				
26	Jim Bledsoe	0 stations		bledsoe108@gmail.com								

How is Simplex testing data recorded

(Show Connection Spreadsheet)

- Across the top transmitters
- Down the first row Listeners
- X heard, O not Heard, Blank did not transmit
- We also include emails and Grid locations (QRZ) and comments
- Transmitters and Listeners are at their home location unless indicated otherwise.

Simplex test support

Lorilyn Roberts KO4LBS Maintains the Alachua County Simplex Connection spreadsheet and co-manager of the simplex testing.

Eric Pleace KO4ZSD Maintains the Test/Net controller script and update the GARS simplex website.

Debbi Boal KI4CVS Maintains the Alachua County Simplex Test Data Form

Karyn Shander KQ4JBR Provides testing support

Dave Dockus KO4GGZ Provides testing support

Jeff Capehart W4UFL Provides ARES support for the simplex testing

Need Help

Creating a location map "computerized"

-Currently using Grid Location from QRZ -May need to request GPS and/or Lat and Long data from stations -Waldo EOC is looking into creating a paper map with pins to start

Find best way to return completed test Data form

-Cell phone picture of the completed test data form then email -Use the test data form in Excel spreadsheet format then email -Type the data directly into an email

