

Emergency Communications For Amateur Radio Operators



Paul Nienaber
KN4BAR
June 9, 2021



Who, What, When, How?

Who do I talk to?

What frequency(s) do I use?

What do I say?

When do I call?

How do I fit in?

ANSWER:

GET INVOLVED NOW!



DARN NET

- **2nd Monday, 11 am**
- Channel 1 145.430
- Channel 5 145.130
- Channel 2 146.805
- Channel 3 146.745
- Channel 4 146.685

Andy KB1HIP
af_durette@hotmail.com

DARN Coordinator

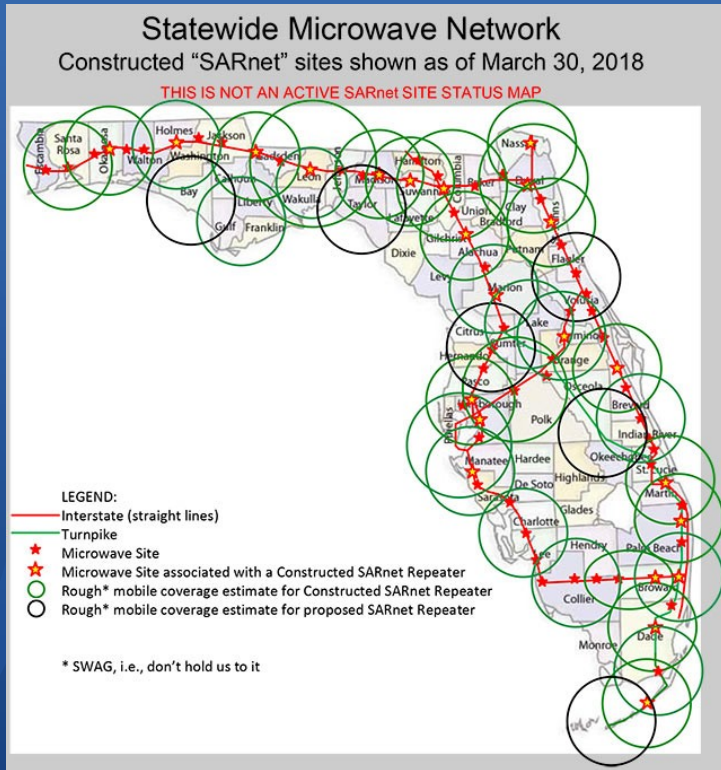
**Catholic Charities,
Diocese of Venice, Inc.**

Robert C. Sullenberger

**DISASTER AMATEUR
RADIO NETWORK**



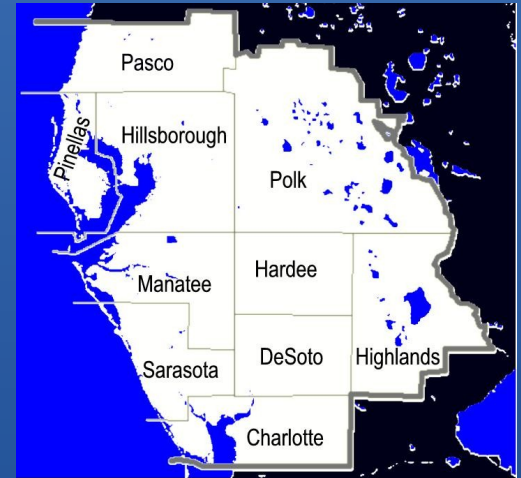
SAR NET



- State-Wide Amateur Radio Network
 - 30 + linked UHF repeaters covering state of Florida
 - Established and maintained by FDOT
 - Open to amateur use; used by state EOC in disaster as directed net
 - 444.800 (+) PL 100 hz [sarasota area]
- <https://www.sarnetfl.com/>

ARES

- Amateur Radio Emergency Service
- ARRL field operating activity
- Organized by ARRL Section
- We are in West Central Florida section (WCF)
- <http://arrlwcf.org/wcf-section-programs/ares/>
- Each county in WCF has an Emergency Coordinator (EC)
- Sarasota's is Gary Wells, WB9AYD
- <http://srqares.org>



SRQARES Frequencies

<https://tamiamiarc.org/tarc-repeaters/>

ID by “SAR” number

INITIAL CONTACT
(linked repeaters)

SAR-11, 442.400 MHz (south)

SAR-12, 442.475 MHz (north)

REPEATER OUT PROCEDURE:

SIMPLEX ON RECEIVE FREQ

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET				Frequency Band			Description		
				All Required			RedCom Communications Resource		
Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks	
1	N4SER SAR-1	Mass care	146.730 W	100 Hz	146.130 W	100 Hz	A	Shelters / ARC	
2	N4SER SAR-1S	Mass care	146.730 W	CSQ	146.730 W	CSQ	A	Shelters / ARC /Simplex	
3	N4SER SAR-2	Emergency	145.130 W	100 Hz	144.530 W	100 Hz	A	Laurel/Linked to SAR-1	
4	N4SER SAR-2S	Emergency	145.130 W	CSQ	145.130 W	CSQ	A	Laurel / Simplex	
5	K4NPT SAR-3	N. Port Ops	147.120 W	136.5Hz	147.720 W	136.5 Hz	A	All NP Units	
6	K4NPT SAR-3S	N. Port Ops	147.120 W	CSQ	147.120 W	CSQ	A	All NP Units / Simplex	
7	NX4Y SAR-4	EOC State	444.800 W	100 Hz	449.800 W	100 Hz	A	Inter EOC/State Only	
8	NX4Y SAR-4S	EOC State	444.800 W	CSQ	444.800 W	CSQ	A	EOC/State Only Simplex	
9	N4SER SAR-5	Sec. Ops	147.390 W	100 Hz	147.990 W	100 Hz	A	Secondary Operations.	
10	N4SER SAR-5S	Simplex	147.390 W	CSQ	147.390 W	CSQ	A	Simplex/Rpt. Output	
11	WC4EM SAR-6	Ag. Resp.	443.550 W	100 Hz	448.550 W	100 Hz	A	Agriculture Response	
12	WC4EM SAR-6S	Simplex	443.550 W	CSQ	443.550 W	CSQ	A	Simplex/Rpt. Output	
13	AC4XQ SAR-7	Backup	444.875 W	82.5 Hz	449.875 W	82.5 Hz	A	Assigned as Needed	
14	AC4XQ SAR-7S	Backup	444.875 W	CSQ	444.875 W	CSQ	A	Simplex/Rpt. Output	
15	AC4XQ SAR-8	Backup	444.600 W	82.5 Hz	449.600 W	82.5 Hz	A	Assigned as needed	
16	AC4XQ SAR-8S	Backup	444.600 W	CSQ	444.600 W	CSQ	A	Simplex/Rpt. Output	
17	K4JBV SAR-9	Backup	443.700 W	82.5 Hz	448.700 W	82.5 Hz	A	Management Rpt.	
18	K4JBV SAR-9S	Backup	443.700 W	CSQ	443.700 W	CSQ	A	Simplex/Rpt. Output	
19	AC4XQ SAR-10	Arcadia	442.300 W	82.5 Hz	447.3	82.5 hZ	A	Arcadia Ops	
20	AC4XQ SAR-10S	Simplex	442.300 W	CSQ	442.3	CSQ	A	Simplex/Rpt. Output	
21	W2DEN SAR-11	Digital/Voice	442.400 W	100	447.400 W	100 Hz	M	Digital/Linked to SAR-25	
22	W2DEN SAR-11S	Simplex	442.400 W	CSQ	442.400 W	CSQ		Simplex/Rpt. Output	
23	W2DEN SAR-12	Digital/Voice	442.475 W	100 Hz	447.475	100Hz	M	Simplex/Rpt. Output	
24	W2DEN SAR-12S	Simplex	442.475 W	CSQ	447.475 W	CSQ		Simplex/Rpt. Output	
25	W4IE SAR-13	Hosp.Coms	146.910 W	100Hz	146.310 W	100Hz	A	Hospital Coms	

HF Disaster Comms

- For Florida nets will need 80-40m NVIS antenna
 - 03940.0 LSB WCF and Southern Florida Emergency
 - 03950.0 LSB Northern Florida Emergency
- Regional/National Nets
 - 07265.0 LSB Salvation Army Team Emergency Radio (SATERN)
 - 07268.0 LSB Hurricane Net (Amateur-to-National Hurricane Center)
 - 14265.0 USB Salvation Army Team Emergency Radio (SATERN)
 - 14325.0 USB Hurricane Net (Amateur-to-National Hurricane Center)

Other Modes

- WINLINK (send and receive email messages by radio)
 - Very popular with American Red Cross
 - Gaining favor with EOCs nation-wide
- VARA and VARA-FM
- PACTOR
- EasyPal
- MT63 - 2000L
- HAMWAN (mesh)