Sumter County ARES

Amateur Radio Emergency Service

Presentation to
The Villages Amateur Radio Club

Presented by

Mark Newby, KX4LEO

www.sumterares.org

What is ARES ?

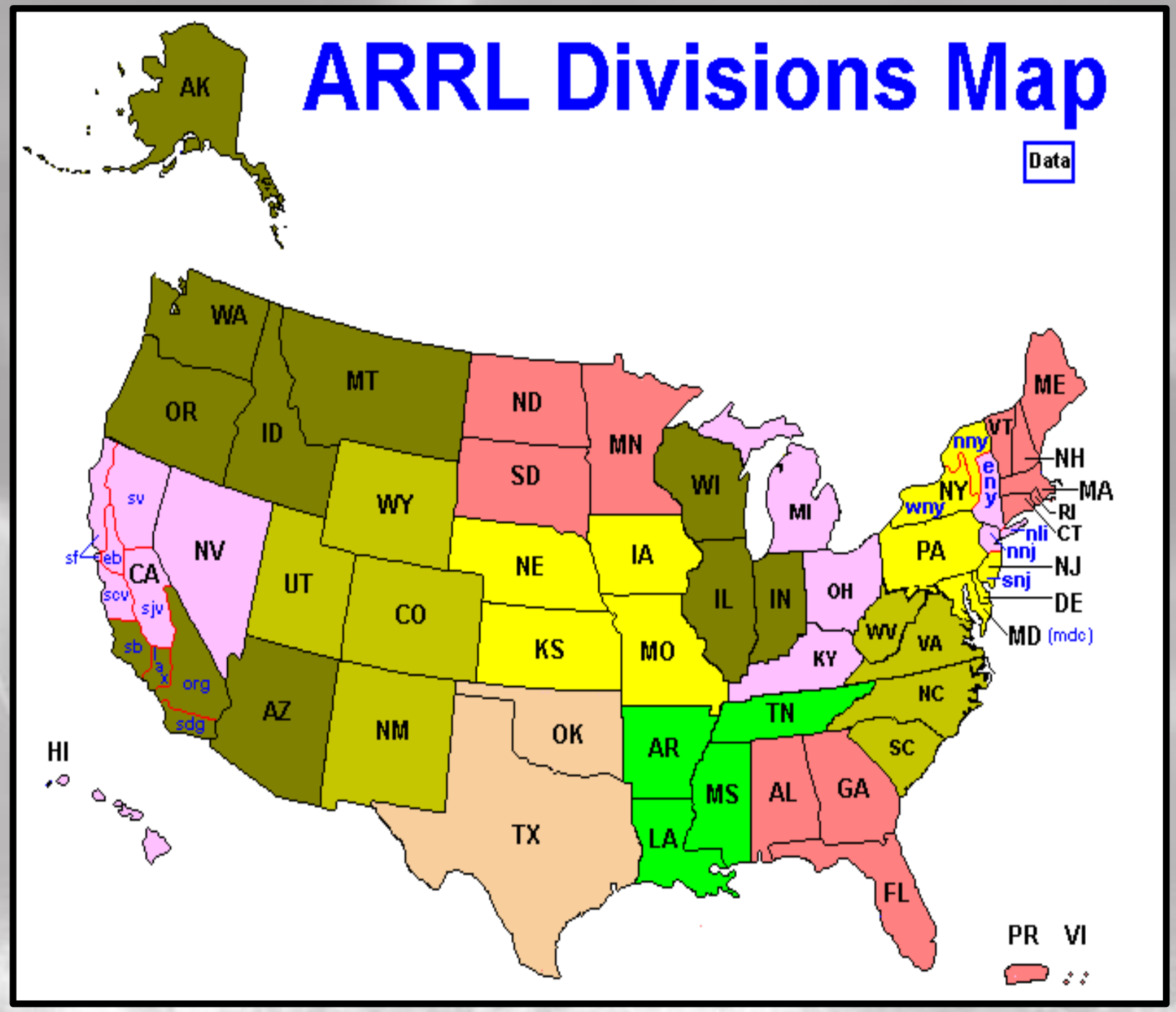
Amateur **R**adio **E**mergency **S**ervice ®

What is ARES ?

ARES is a program of the ARRL®, offering to the public and to its partners trained, licensed amateur radio operators who are skilled in applying a wide range of effective communications services in times of disaster and for non-emergency public events.

SUMTER COUNTY AMATEUR RADIO EMERGENCY SERVICE®

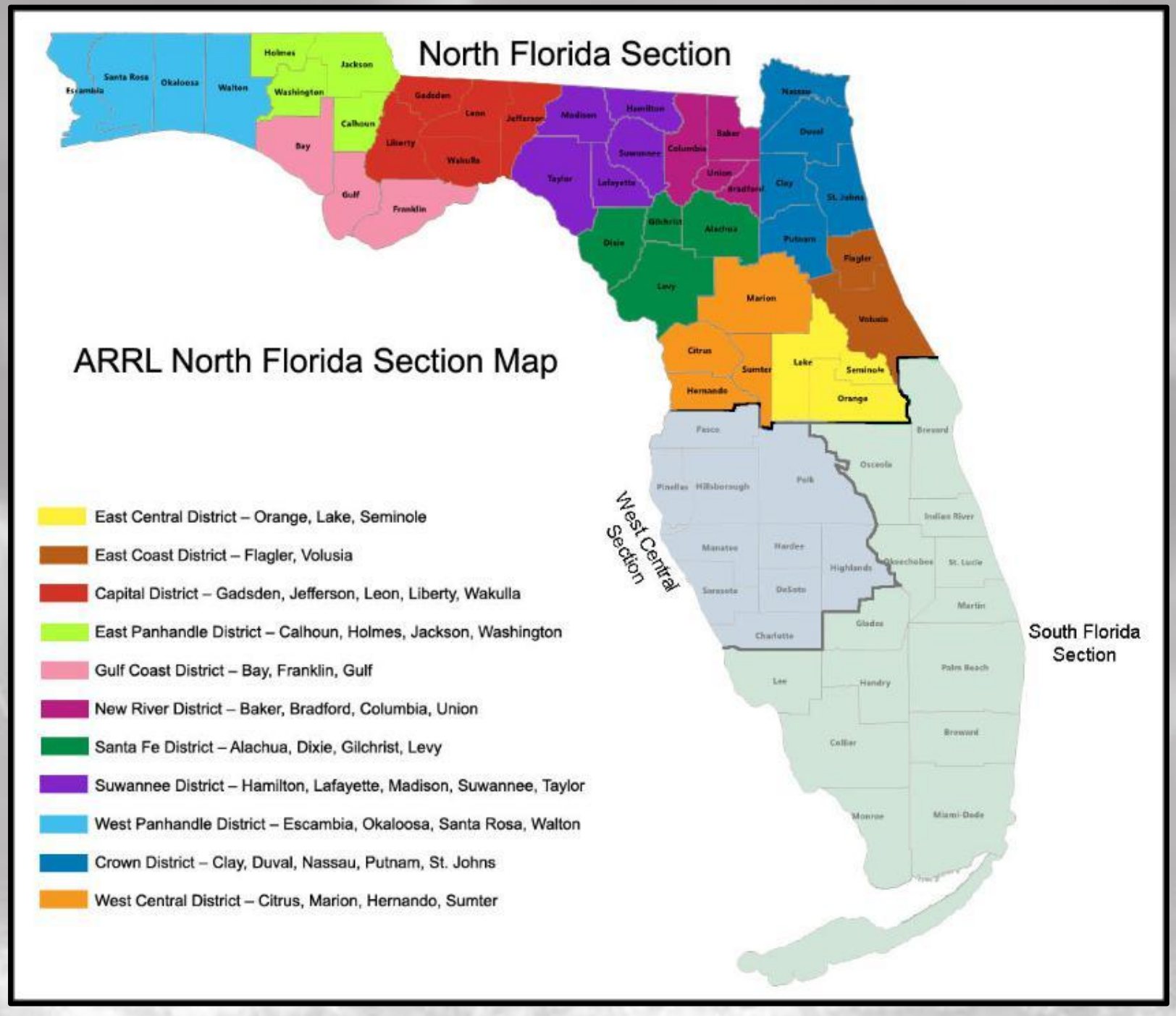
ARRL Divisions



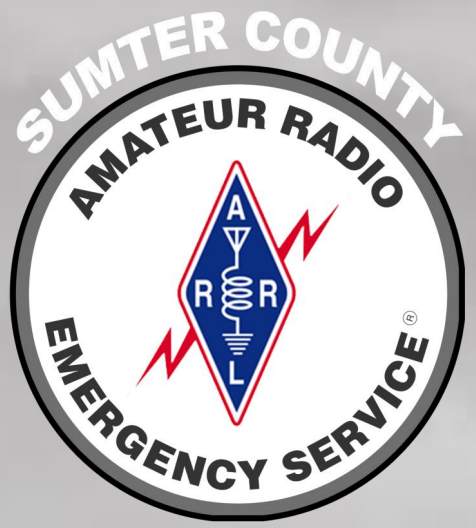
Districts

Florida

Sections



Your Local ARES Organization



Emergency Coordinator (EC)
Mark Newby
KX4LEO

Assistant Emergency Coordinator (AEC)

Information Officer
Gene King
KI4LEH

Logistics Officer

Planning Officer
Steve Walbrun
KD8WAA

Technology Officer
Earl Hassemer
W9EJH

NTS Officer
Harry Sherrer
KD4IKV

RF Nets

4th Thursday of each month at 7:30 PM, KS4EOC Repeater 146.925 MHz (-) Offset, PL 123.0 Hz

- You do not have to be a member of ARES to participate. All are encouraged to check in.
- Check equipment to ensure it is in a state of readiness.
- Test equipment's effective range via repeaters and simplex.
- Receive information from the ARES leadership and its Officers.
- Discuss the logistics of upcoming events.
- Participate in training and simulated exercises.
- Discuss matters related to emergency communications and preparedness.
- Enter formal traffic into the National Traffic System (NTS)

Membership Meetings

2nd Wednesday each month at 7:30 PM ET (In-Person or On-Line)

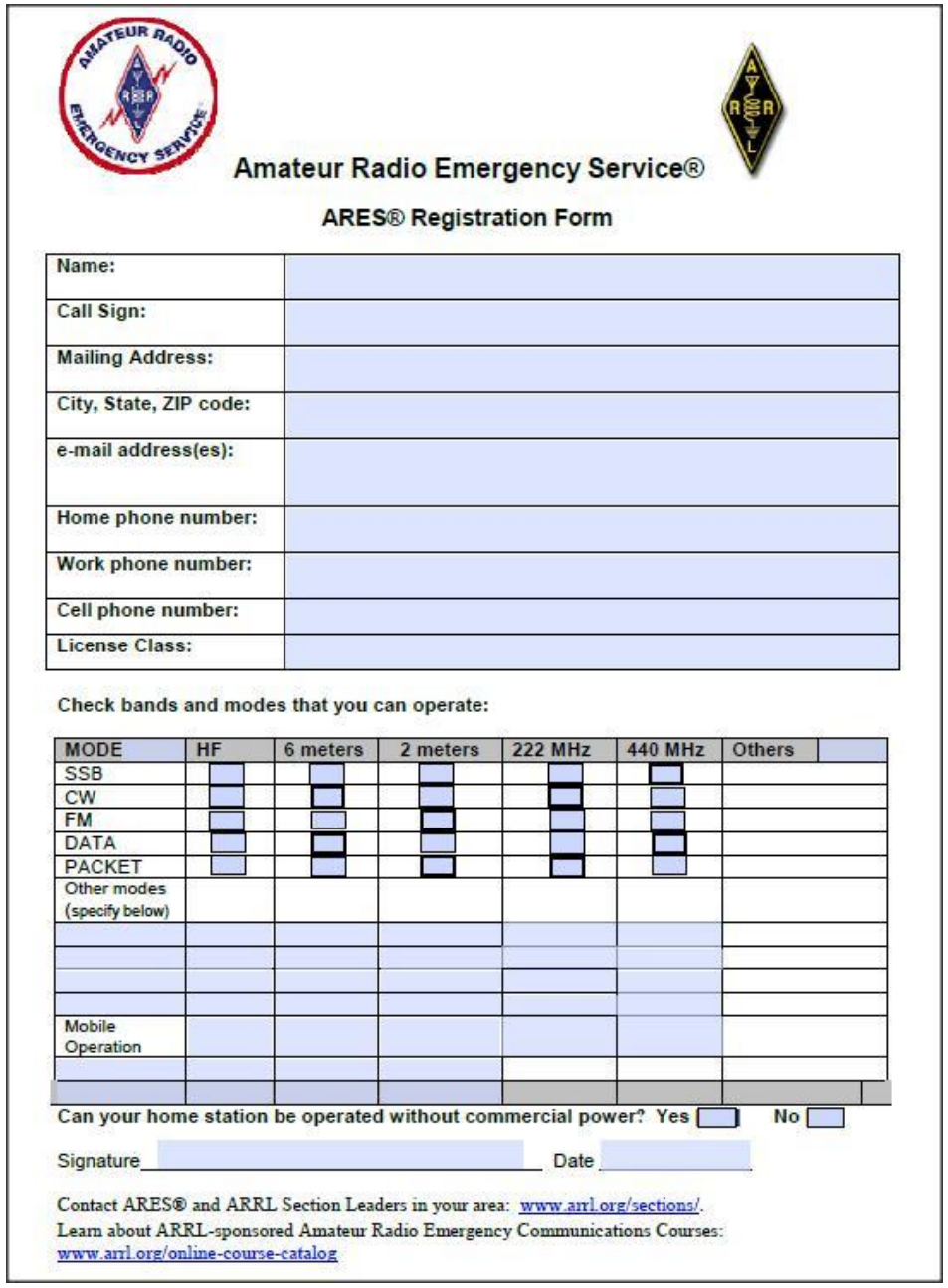
- You do not have to be a member of ARES to participate. All are encouraged to join the meeting.
- Link to Zoom meeting found at www.sumterares.org/calendar
- Receive information from the ARES leadership and its Officers.
- Discuss the logistics of upcoming events.
- Conduct training that cannot be performed over the air.
- Discuss matters related to emergency communications and preparedness.

Membership Requirements

- Hold a Technician or higher-class amateur radio license.
- Have an operable amateur radio station, (Hand-Held, Mobile, or Base Transceiver)
- Be a full-time or part-time resident of Sumter County or adjacent county.
- Have a sincere desire to provide a volunteer public service to the communities in Sumter County. Depending on your own physical abilities, you may volunteer from your home, office or in a field assignment.
- Have the physical ability to effectively communicate by voice over a 2-way radio. For those with hearing or speech limitations, the ability to communicate by alternative methods, i.e. CW, Packet, Digital, WinLink, PSK31, etc.
- Have the ability to work well with others, and to receive and effectively carry out instructions.
- No background checks are required unless you also enroll in the local RACES program.

Membership Registration

www.sumterares.org/membership



Amateur Radio Emergency Service®

ARES® Registration Form

Name:	
Call Sign:	
Mailing Address:	
City, State, ZIP code:	
e-mail address(es):	
Home phone number:	
Work phone number:	
Cell phone number:	
License Class:	

Check bands and modes that you can operate:

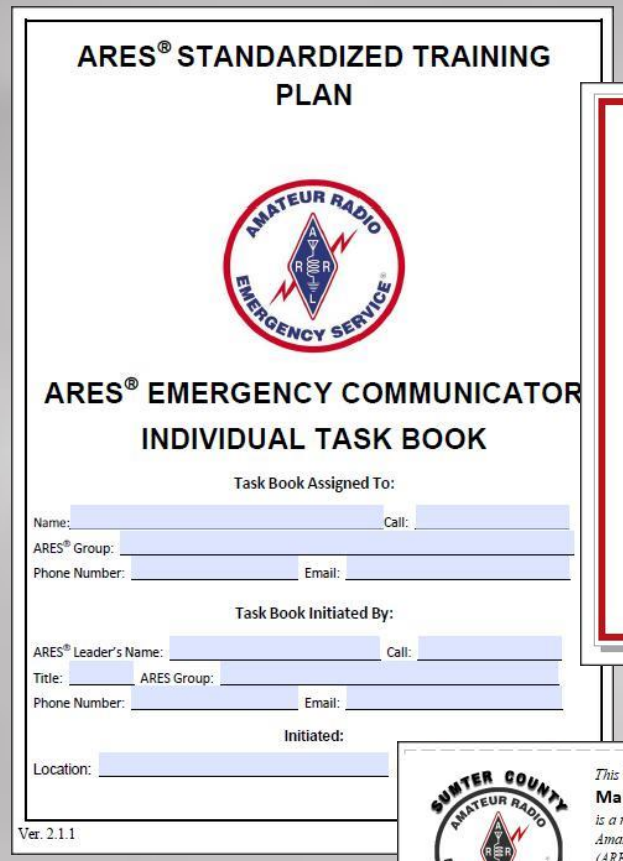
MODE	HF	6 meters	2 meters	222 MHz	440 MHz	Others
SSB	☐	☐	☐	☐	☐	
CW	☐	☐	☐	☐	☐	
FM	☐	☐	☐	☐	☐	
DATA	☐	☐	☐	☐	☐	
PACKET	☐	☐	☐	☐	☐	
Other modes (specify below)						
Mobile Operation						

Can your home station be operated without commercial power? Yes ☐ No ☐

Signature _____ Date _____

Contact ARES® and ARRL Section Leaders in your area: www.arrl.org/sections/.
Learn about ARRL-sponsored Amateur Radio Emergency Communications Courses:
www.arrl.org/online-course-catalog

New Members Receive



ARES® STANDARDIZED TRAINING PLAN

ARES® EMERGENCY COMMUNICATOR

INDIVIDUAL TASK BOOK

Task Book Assigned To:

Name: Call:

ARES® Group:

Phone Number: Email:

Task Book Initiated By:

ARES® Leader's Name: Call:

Title: ARES Group:

Phone Number: Email:

Initiated:

Location:

Ver. 2.1.1

This certifies that

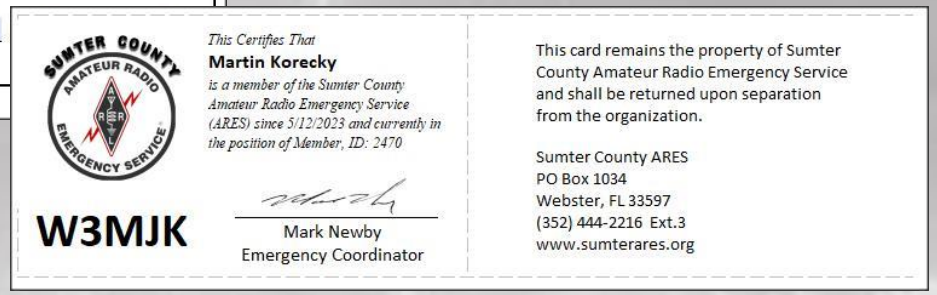
Martin Korecky

W3MJK

is a member of the Sumter County Amateur Radio Emergency Service (ARES) since 5/12/2023 and currently serving our communities in the position of Member, ID No. 2470.

SUMTER COUNTY serving our communities

Mark Newby, KX4LEO
Emergency Coordinator



This Certifies That

Martin Korecky

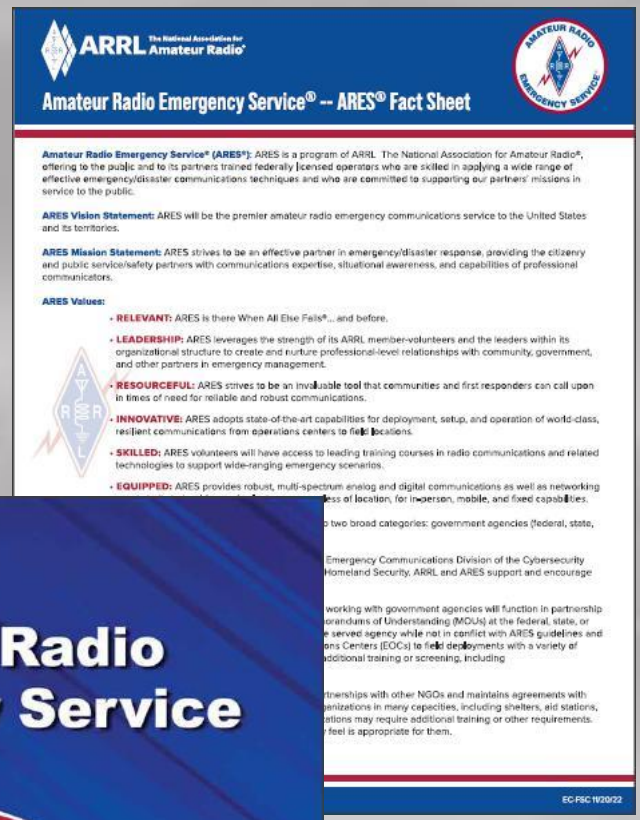
is a member of the Sumter County Amateur Radio Emergency Service (ARES) since 5/12/2023 and currently in the position of Member, ID: 2470

W3MJK

Mark Newby
Emergency Coordinator

This card remains the property of Sumter County Amateur Radio Emergency Service and shall be returned upon separation from the organization.

Sumter County ARES
PO Box 1034
Webster, FL 33597
(352) 444-2216 Ext.3
www.sumterares.org



ARRL The National Association for Amateur Radio®

Amateur Radio Emergency Service® -- ARES® Fact Sheet

Amateur Radio Emergency Service® (ARES®): ARES is a program of ARRL, The National Association for Amateur Radio®, offering to the public and to its partners trained federally licensed operators who are skilled in applying a wide range of effective emergency/disaster communications techniques and who are committed to supporting our partners' missions in service to the public.

ARES Vision Statement: ARES will be the premier amateur radio emergency communications service to the United States and its territories.

ARES Mission Statement: ARES strives to be an effective partner in emergency/disaster response, providing the citizenry and public service/safety partners with communications expertise, situational awareness, and capabilities of professional communicators.

ARES Values:

- **RELEVANT:** ARES is there When All Else Fails®... and before.
- **LEADERSHIP:** ARES leverages the strength of its ARRL member-volunteers and the leaders within its organizational structure to create and nurture professional-level relationships with community, government, and other partners in emergency management.
- **RESOURCEFUL:** ARES strives to be an invaluable tool that communities and first responders can call upon in times of need for reliable and robust communications.
- **INNOVATIVE:** ARES adopts state-of-the-art capabilities for deployment, setup, and operation of world-class, resilient communications from operations centers to field locations.
- **SKILLED:** ARES volunteers will have access to leading training courses in radio communications and related technologies to support wide-ranging emergency scenarios.
- **EQUIPPED:** ARES provides robust, multi-spectrum analog and digital communications as well as networking ...ess of location, for in-person, mobile, and fixed capabilities.

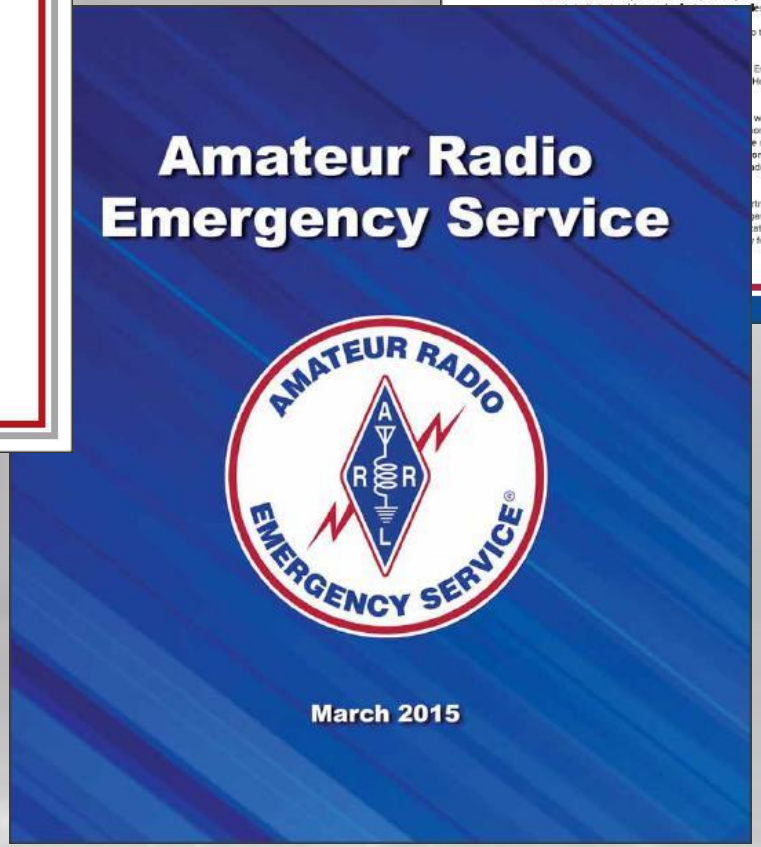
...o two broad categories: government agencies (federal, state,

...Emergency Communications Division of the Cybersecurity ...Homeland Security. ARRL and ARES support and encourage

...working with government agencies will function in partnership ...orandums of Understanding (MOUs) at the federal, state, or ...e served agency while not in conflict with ARES guidelines and ...ons Centers (EOCs) to field deployments with a variety of ...additional training or screening, including

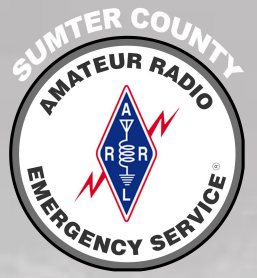
...rtnerships with other NGOs and maintains agreements with ...anizations in many capacities, including shelters, aid stations, ...tions may require additional training or other requirements. ...feel is appropriate for them.

EC-FSC 11/20/22



Amateur Radio Emergency Service

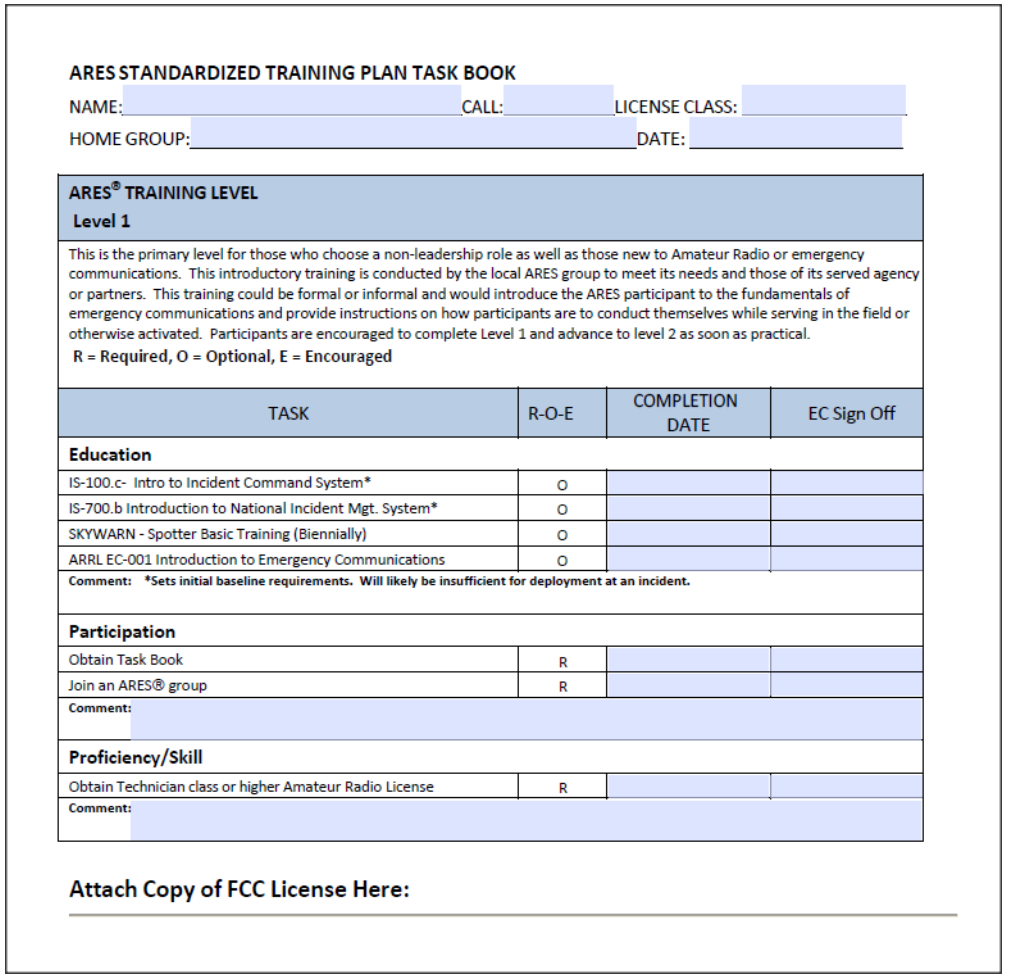
March 2015



SUMTER COUNTY AMATEUR RADIO EMERGENCY SERVICE

Levels

- **Level 1**
  - Entry level
  - No required training
  - Sumter County ARES Manual



ARES STANDARDIZED TRAINING PLAN TASK BOOK

NAME:_____ CALL:_____ LICENSE CLASS:_____

HOME GROUP:_____ DATE:_____

ARES® TRAINING LEVEL
Level 1

This is the primary level for those who choose a non-leadership role as well as those new to Amateur Radio or emergency communications. This introductory training is conducted by the local ARES group to meet its needs and those of its served agency or partners. This training could be formal or informal and would introduce the ARES participant to the fundamentals of emergency communications and provide instructions on how participants are to conduct themselves while serving in the field or otherwise activated. Participants are encouraged to complete Level 1 and advance to level 2 as soon as practical.

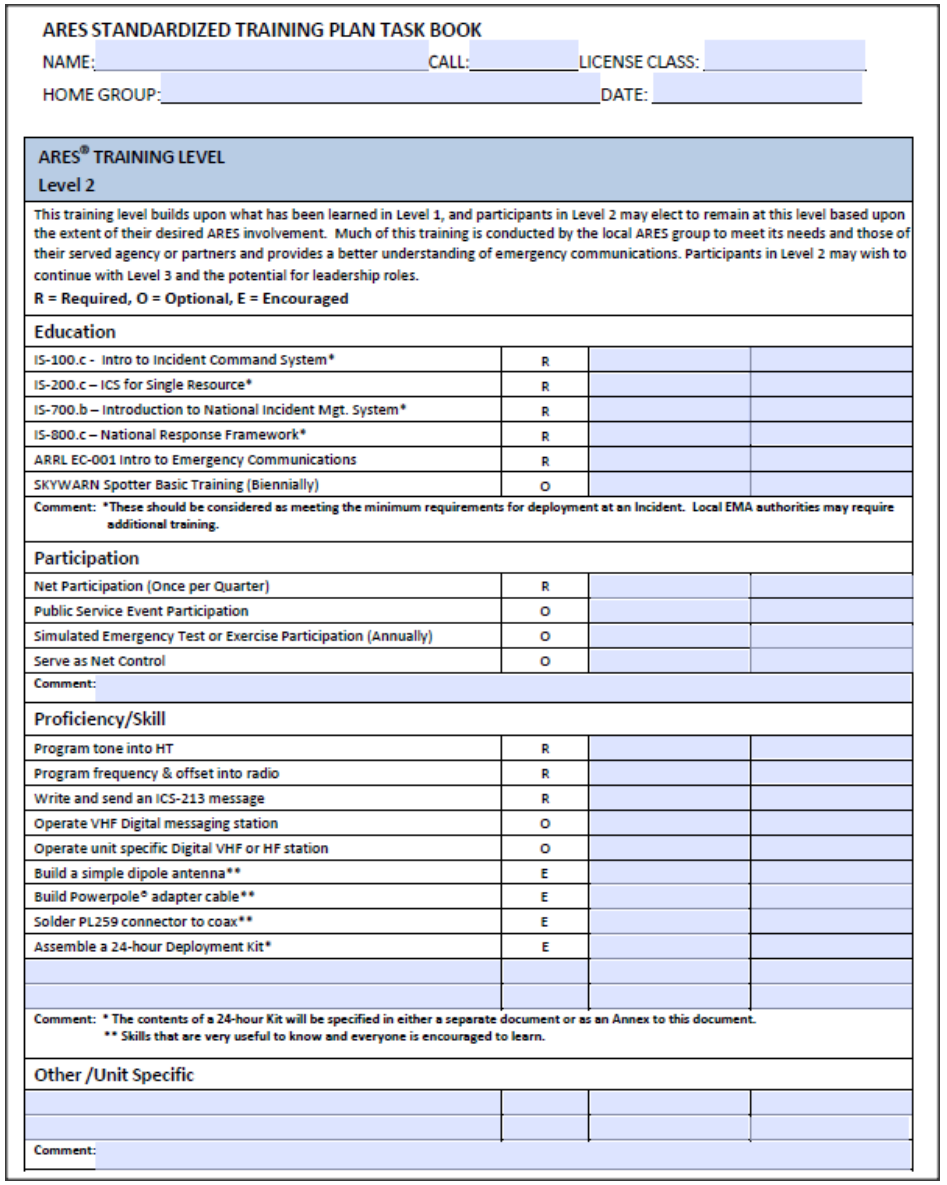
R = Required, O = Optional, E = Encouraged

TASK	R-O-E	COMPLETION DATE	EC Sign Off
Education			
IS-100.c- Intro to Incident Command System*	O		
IS-700.b Introduction to National Incident Mgt. System*	O		
SKYWARN - Spotter Basic Training (Biennially)	O		
ARRL EC-001 Introduction to Emergency Communications	O		
Comment: *Sets initial baseline requirements. Will likely be insufficient for deployment at an incident.			
Participation			
Obtain Task Book	R		
Join an ARES® group	R		
Comment:			
Proficiency/Skill			
Obtain Technician class or higher Amateur Radio License	R		
Comment:			

Attach Copy of FCC License Here:

Levels

- **Level 2**
  - Intermediate level
  - Some required training
  - Some required participation in certain activities
  - Observation of proficiency for certain tasks



ARES STANDARDIZED TRAINING PLAN TASK BOOK

NAME: _____ CALL: _____ LICENSE CLASS: _____

HOME GROUP: _____ DATE: _____

ARES® TRAINING LEVEL
Level 2

This training level builds upon what has been learned in Level 1, and participants in Level 2 may elect to remain at this level based upon the extent of their desired ARES involvement. Much of this training is conducted by the local ARES group to meet its needs and those of their served agency or partners and provides a better understanding of emergency communications. Participants in Level 2 may wish to continue with Level 3 and the potential for leadership roles.

R = Required, O = Optional, E = Encouraged

Education

IS-100.c - Intro to Incident Command System*	R		
IS-200.c – ICS for Single Resource*	R		
IS-700.b – Introduction to National Incident Mgt. System*	R		
IS-800.c – National Response Framework*	R		
ARRL EC-001 Intro to Emergency Communications	R		
SKYWARN Spotter Basic Training (Biennially)	O		

Comment: *These should be considered as meeting the minimum requirements for deployment at an Incident. Local EMA authorities may require additional training.

Participation

Net Participation (Once per Quarter)	R		
Public Service Event Participation	O		
Simulated Emergency Test or Exercise Participation (Annually)	O		
Serve as Net Control	O		

Comment:

Proficiency/Skill

Program tone into HT	R		
Program frequency & offset into radio	R		
Write and send an ICS-213 message	R		
Operate VHF Digital messaging station	O		
Operate unit specific Digital VHF or HF station	O		
Build a simple dipole antenna**	E		
Build Powerpole® adapter cable**	E		
Solder PL259 connector to coax**	E		
Assemble a 24-hour Deployment Kit*	E		

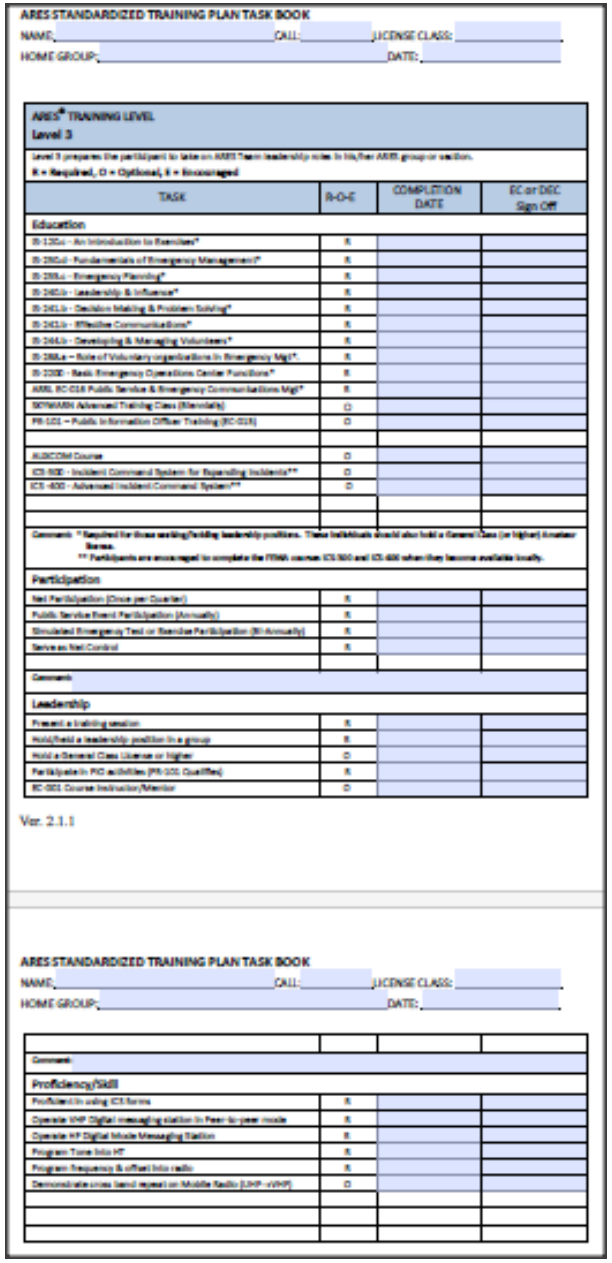
Comment: * The contents of a 24-hour Kit will be specified in either a separate document or as an Annex to this document.
** Skills that are very useful to know and everyone is encouraged to learn.

Other /Unit Specific

Comment:

Levels

- **Level 3**
  - Advanced level
  - Required for certain ARES leadership positions
  - Advanced training required
  - Additional participation in certain activities is required
  - Observation of proficiency for advanced tasks is required



ARES STANDARDIZED TRAINING PLAN TASK BOOK

NAME:_____ CALL:_____ LICENSE CLASS:_____

HOME GROUP:_____ DATE:_____

ARES® TRAINING LEVEL Level 3			
Level 3 prepares the participant to take on ARES Team leadership roles in his/her ARES group or section. R = Required, O = Optional, E = Encouraged			
TASK	R-O-E	COMPLETION DATE	EC or DEC Sign Off
Education			
IS-120.a - An Introduction to Exercises*	R		
IS-230.d - Fundamentals of Emergency Management*	R		
IS-235.c - Emergency Planning*	R		
IS-240.b - Leadership & Influence*	R		
IS-241.b - Decision Making & Problem Solving*	R		
IS-242.b - Effective Communications*	R		
IS-244.b - Developing & Managing Volunteers*	R		
IS-288.a – Role of Voluntary organizations in Emergency Mgt*	R		
IS-100.B - Basic Emergency Operations Center Functions*	R		
ARRL EC-016 Public Service & Emergency Communications Mgt*	R		
SKYWARN Advanced Training Class (Remotely)	O		
PR-101 – Public Information Officer Training (EC-018)	O		
AUXCOM Course	O		
ICS-100 - Incident Command System for Expanding Incidents**	O		
ICS -200 - Advanced Incident Command System**	O		
Comment: * Required for those seeking/holding leadership positions. These individuals should also hold a General Class (or higher) Amateur license. ** Participants are encouraged to complete the ITEMS courses ICS-100 and ICS-200 when they become available locally.			
Participation			
Net Participation (Once per Quarter)	R		
Public Service Event Participation (Annually)	R		
Simulated Emergency Test or Exercise Participation (Bi-Annually)	R		
Serve as Net Control	R		
Comment:			
Leadership			
Present a training session	R		
Hold/field a leadership position in a group	R		
Hold a General Class License or higher	O		
Participate in PIO activities (PR-101 Qualified)	R		
EC-001 Course Instructor/Mentor	O		

Ver. 2.1.1

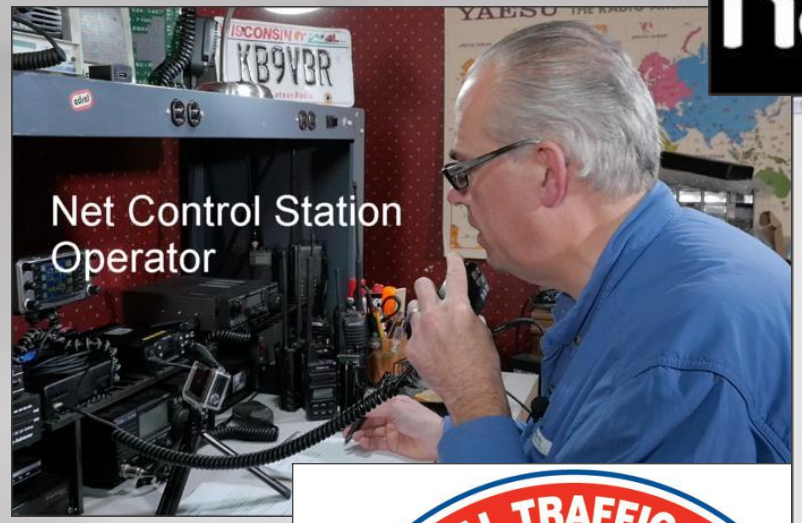
ARES STANDARDIZED TRAINING PLAN TASK BOOK

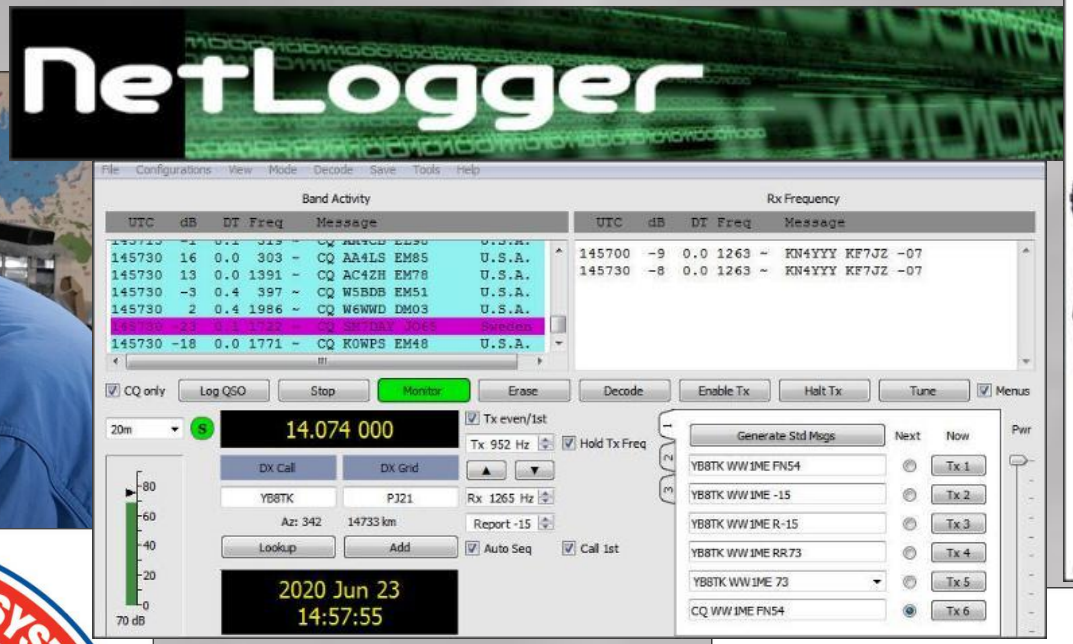
NAME:_____ CALL:_____ LICENSE CLASS:_____

HOME GROUP:_____ DATE:_____

Comment:			
Proficiency/Skill			
Proficient in using ICS forms	R		
Operate VHF Digital messaging station in Peer-to-peer mode	R		
Operate HF Digital Mode Messaging Station	R		
Program Tone into HT	R		
Program frequency & offset into radio	R		
Demonstrate cross band repeat on Mobile Radio (UHF - VHF)	O		

Training





And More …

Nationwide Exercise

ARRL's Simulated Emergency Test (SET), October 7 - 8, 2023.

- Nationwide exercise to test personal emergency-operating skills and the readiness of ARES teams across the nation in a simulated emergency-like deployment.

- State and local Emergency Operations Centers in participating states

- Emergency Radio Nets are activated
  - Local emergency radio Nets
  - Emergency HF Nets

- In conjunction with other emergency management and response organizations, i.e. Emergency Management Offices, CERT, RACES, NTS, Red Cross, Salvation Army, Local Law Enforcement, Fire/Rescue, etc.

- ARES personnel may simulate deploying to field assignments, i.e. shelters, points of distribution, hospitals, etc.

Florida Exercise

- Late Winter or early Spring due to Hurricane Season in the Fall
- Scenario based
- ARES teams in all Sections in the Florida participate
- State and local Emergency Operations Centers
- Emergency Radio Nets are activated
  - Local emergency radio Nets
  - Emergency HF Nets
  - Statewide Amateur Radio Network (SARNET)
- In conjunction with other emergency management and response organizations, i.e. Emergency Management Offices, CERT, RACES, Red Cross, Salvation Army, Local Law Enforcement, Fire/Rescue, etc.
- ARES personnel may simulate deploying to field assignments, i.e. shelters, points of distribution, hospitals, etc.

Local Exercises

- Announced and Unannounced
- Assess members' understanding of local emergency operation plans
- Test notification system & procedures
- Test members' personal emergency-operating skills and the readiness of their communications equipment and accessories in a simulated emergency scenario

Sumter County ARES Manual

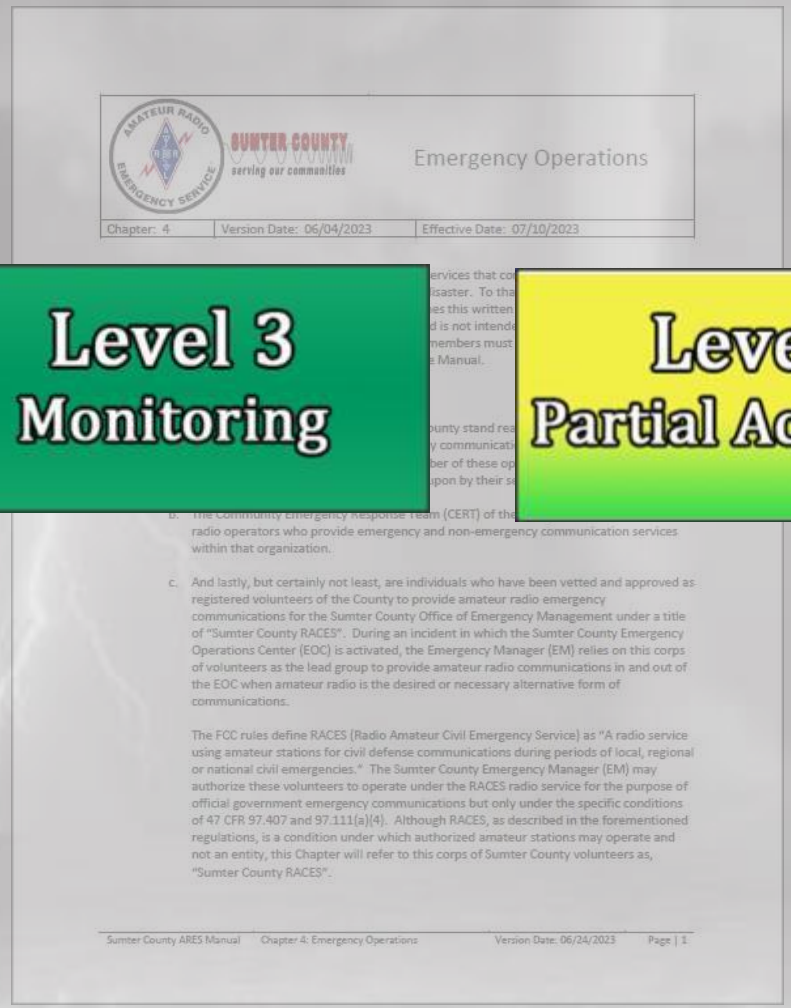
Emergency Operations Plan

No Alert
Not Active

Level 3
Monitoring

Level 2
Partial Activation

Level 1
Full Activation



SUMTER COUNTY
serving our communities

Emergency Operations

Chapter: 4	Version Date: 06/04/2023	Effective Date: 07/10/2023

...services that co...
...disaster. To tha...
...es this written...
...d is not intend...
...members must...
...e Manual.

...ounty stand re...
...y communicati...
...ber of these op...
...upon by their s...

b. The Community Emergency Response Team (CERT) of th... radio operators who provide emergency and non-emergency communication services within that organization.

c. And lastly, but certainly not least, are individuals who have been vetted and approved as registered volunteers of the County to provide amateur radio emergency communications for the Sumter County Office of Emergency Management under a title of "Sumter County RACES". During an incident in which the Sumter County Emergency Operations Center (EOC) is activated, the Emergency Manager (EM) relies on this corps of volunteers as the lead group to provide amateur radio communications in and out of the EOC when amateur radio is the desired or necessary alternative form of communications.

The FCC rules define RACES (Radio Amateur Civil Emergency Service) as "A radio service using amateur stations for civil defense communications during periods of local, regional or national civil emergencies." The Sumter County Emergency Manager (EM) may authorize these volunteers to operate under the RACES radio service for the purpose of official government emergency communications but only under the specific conditions of 47 CFR 97.407 and 97.111(a)(4). Although RACES, as described in the forementioned regulations, is a condition under which authorized amateur stations may operate and not an entity, this Chapter will refer to this corps of Sumter County volunteers as, "Sumter County RACES".

SUMTER COUNTY AMATEUR RADIO EMERGENCY SERVICE

Emergency Operations Plan

Level 3 – Monitoring will serve to notify Sumter County ARES members that their services may be needed on short notice any time in the next 48-72 hours. When the Sumter County ARES EC or AEC declares a Level-3 activation, its members are to monitor conditions and remain available to receive further information through any of the following methods:

- Monitor the Logistics repeater listed in Appendix-4A of this Manual.
- If radio reception is not available, monitor the Alerts and Activations page on the www.sumterares.org/alert website and frequently check your email for official messages from the EC or AEC.
- If neither the radio nor internet is available, remain close to your mobile or landline telephone.

- Although a Directed Net is permissible, a Net operating during Level-3 is normally running ad hoc, (not a directed Net). Sumter ARES members will monitor the Logistics repeater, until otherwise directed by the EC or AEC, to receive any assignments, condition updates, and announcement of status level changes from the EC or AEC.

Emergency Operations Plan

Level-2 Partial Activation will be declared for Sumter County ARES by its EC or AEC under any of the following conditions: (a) When specific ARES duty posts / field assignments in Sumter County are to be staffed and made operational; or (b) When requests are received from the NFL Section or any other County under mutual aid; or (c) When requests are made by the Sumter County Emergency Manager or any one of our other served agencies. Most emergencies, even severe ones, can normally be managed at Level-2.

The EC or AEC will assume the responsibilities of the Sumter ARES Incident Commander (AIC) or delegate the responsibility to another qualified member. The AIC is authorized to direct all Sumter County ARES operations during a Level-2 or Level-1 activation. This authority does not extend outside the Sumter County ARES organization.

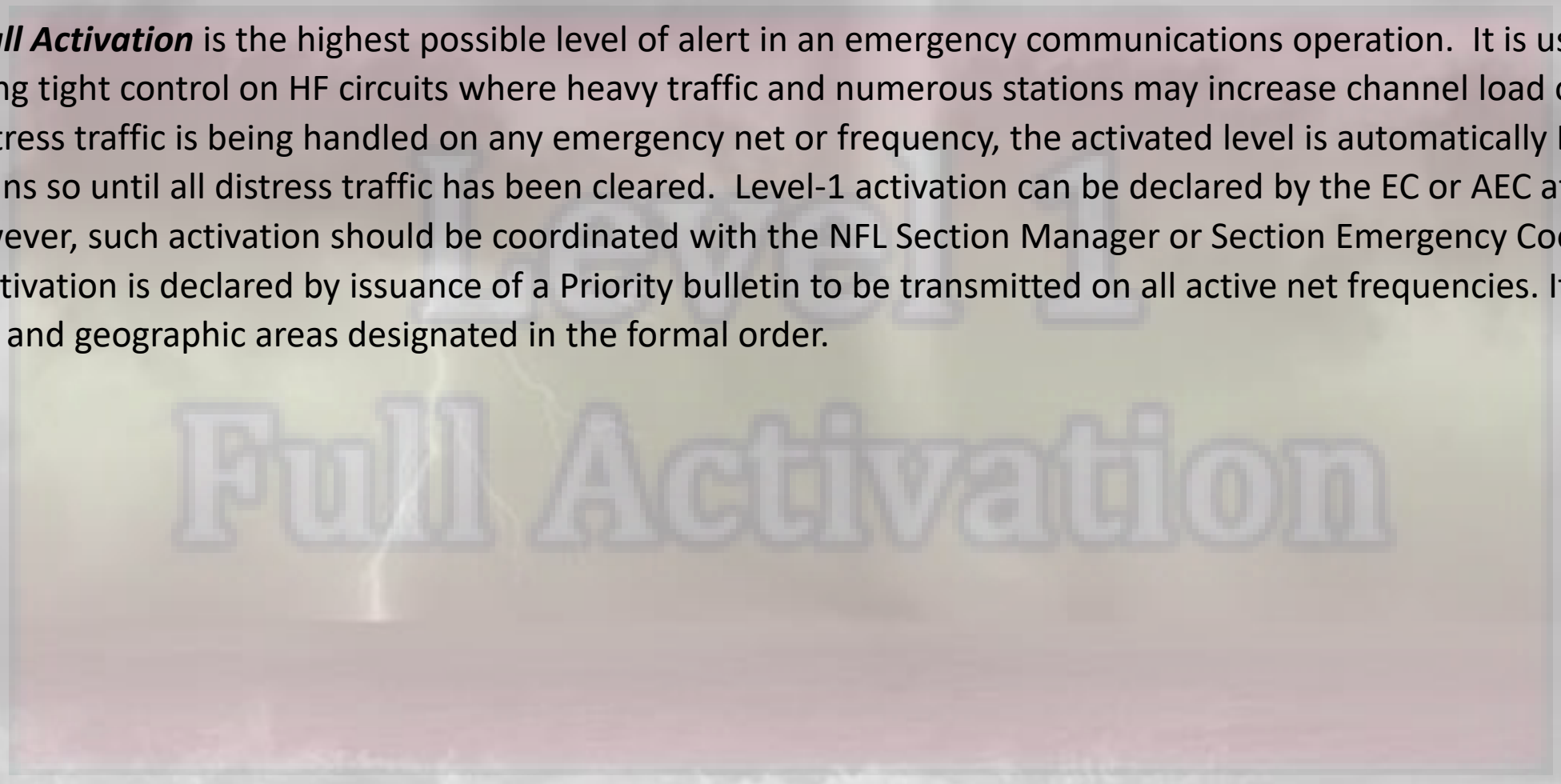
Emergency Operations Plan

For an incident that warrants a Level-2 activation under the ARES protocol, it can reasonably be assumed that the Sumter County Emergency Manager will activate the Sumter County Emergency Operations Center. In which case, amateur radio operators who are registered volunteers with the Sumter County Emergency Management, referred herein as "Sumter County RACES", will staff the amateur radio operations room in the EOC. The RACES Radio Officer will determine if a directed **Operations / Admin Net** will be activated on its respective repeater listed in Appendix-4A of this Manual, and if so, assign a Net Control Station. Depending on the scope of the emergency, the RACES Radio Officer may also assign a Net Control Station to operate a directed **Logistics Net** on its respective repeater.

Sumter ARES members will monitor the **Logistics** repeater unless directed by the AIC to switch frequencies. If the AIC assigns an ARES member to a post/field assignment which will require communications to or from the EOC, the AIC will instruct that member to switch to the Operations / Admin Net and check in with that NCS.

Emergency Operations Plan

Level-1 Full Activation is the highest possible level of alert in an emergency communications operation. It is useful for maintaining tight control on HF circuits where heavy traffic and numerous stations may increase channel load on nets. When distress traffic is being handled on any emergency net or frequency, the activated level is automatically Level-1 and remains so until all distress traffic has been cleared. Level-1 activation can be declared by the EC or AEC at the local level; however, such activation should be coordinated with the NFL Section Manager or Section Emergency Coordinator. Level-1 activation is declared by issuance of a Priority bulletin to be transmitted on all active net frequencies. It applies to all nets and geographic areas designated in the formal order.



Emergency Frequencies

Sumter County Emergency Management – Operations / Admin Net

Repeater Call Sign	Location	RX Freq	TX Freq	CTCSS Tone	EchoLink	AllStar
KS4EOC	Sumterville, FL	146.925 (You Receive)	146.325 (You Transmit)	123.0	KD8WAA-R (648680)	53446
	During a Level-2 or Level-1 activation, the Sumter County RACES Radio Officer may activate a directed **Operations / Admin. Net** on this repeater and assigned a Net Control Station. Only those stations who have been instructed to operate on this frequency should use it. *Please note that EchoLink and AllStar access may be terminated during the activation.* ARES members who are instructed by the AIC on the **Logistics** repeater to deploy to posts or field assignments will typically be instructed to switch to this **Operations / Admin. Net** and check in with that NCS. In the event this repeater fails, monitor the K4HOG and KI4DYE repeaters for instructions on alternative repeater and Net assignments.					

Emergency Frequencies

Hog County Amateur Radio Club – Logistics Net

Repeater Call Sign	Location	RX Freq	TX Freq	CTCSS Tone	EchoLink	AllStar
K4HOG	Sumterville, FL	147.030 (You Receive)	147.630 (You Transmit)	123.0	K4VEB-R (294541)	49829

During Alert Level-3, Sumter County ARES members are to monitor this frequency. Although a Directed Net is permissible, a Net operating during Level-3 is normally running ad hoc, (not a directed Net). Sumter ARES members will monitor this frequency to receive any instructions, assignments, condition updates, and announcement of status level changes from the EC or AEC on this repeater.

During Alert Level-2 or Level-1, in addition to an **Operations / Admin Net** that may have been activated on the KS4EOC repeater, the RACES Radio Officer may also assign a Net Control Station to operate a directed **Logistics Net** on this repeater if the scope of the situation warrants. ARES members should not switch to the **Operations / Admin Net** or any other frequency unless instructed to do so by the AIC or NCS. In the event this repeater fails, monitor the KS4EOC and KI4DYE repeaters for instructions on alternative repeater and Net assignments.

Emergency Frequencies

Repeater Call Sign	Location	RX Freq	TX Freq	CTCSS Tone	EchoLink	AllStar
KI4DYE	Bushnell, FL	145.490 (You Receive)	144.890 (You Transmit)	123.0	KX4LEO-L (297089)	40487
	Owned by Sumter County Office of Emergency Management, this repeater would generally be used as back-up or as otherwise needed.					
KX4LEO	Webster, FL	147.360 (You Receive)	147.960 (You Transmit)	97.4	KX4LEO-R (297091)	577320
	Not intended to be used for local emergency communications nets. Used for administrative activities of Sumter County ARES, to communicate with NFL Section leadership and other County's Emergency Coordinators regarding mutual aid requests. Stations may switch to this repeater for assistance with formal traffic that does not need to be passed through the EOC, i.e., typically health and welfare messages.					

Emergency Frequencies

Repeater Call Sign	Location	RX Freq	TX Freq	CTCSS Tone	EchoLink	AllStar
KX4LEO	(Mobile Trailer)	441.900 (You Receive)	446.900 (You Transmit)	123.0	N/A	N/A
	This is a mobile repeater installed in the Sumter County ARES Emergency Communications Trailer.					
		147.585 (Simplex)	147.585 (Simplex)	N/A	N/A	N/A
	Simplex 2-meter frequency used as needed for EmComm purposes.					

EmComm Trailer

Non-Emergency Events

- Community Events
- National Night Out
- Hearts For Our Hospitals Bicycle Challenge
- Lake Panasoffkee Christmas Parade
- Haunted in the Park
- Special Event Station
- Winter & Summer Field Day

And More….

Thank You and 73’s

www.sumterares.org

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