

Anne Arundel ARES Team

Ken Reid KG4USN Emergency Coordinator

What are ARES and RACES?

Amateur Radio Emergency Service (ARES)

- FCC-licensed volunteer amateur radio operators
- Voluntarily register their qualifications and equipment
- Subject to an MOU with the County and background checked
- For communications duty in the public service when disaster strikes
- Trained on Incident Command System procedures and WebEOC

RER RADIO MARYLAND



Radio Amateur Civil Emergency Service (RACES)

- Use Federal amateur radio guidelines on dedicated frequencies in a national emergency
- Come into force given a Presidential declaration of a national emergency
 - RACES national capabilities activated jointly by FEMA and FCC

Amateur Radio Emergency Service ARES



We are one of the County's emergency communications backup options using trained, affiliated volunteers.

This morning we'll briefly discuss:

- Our leadership
- What we can do
- How you can train with us
- How we have used the radios and gear you supplied to us
- How we are activated into action
- Real world use case

Anne Arundel County ARES Leadership



- Ken Reid is the Emergency Coordinator (EC)
- Rob Hurd is the RACES Officer (RO)
- Duffy Mazan and Ron Boller are Assistant ECs
- Mike Montrose is EC Emeritus
- Gordon Davids is RO Emeritus

Anne Arundel County ARES Functional Managers



Tom Ostrowski manages the HF Net and asset (resource) management
Don Jennings manages the Sunday Night Net, and Monthly section Echolink Net
Ron Boller handles Winlink Nets and drills

Duffy Mazan is the is the Activation Manager and an HF Net manager

John Williams technically manages the equipment and repeaters

David Rinker handles WebEOC drills and is the Maryland Mobileers Radio Club (MMRC) Liaison

Gordon Davids manages radio programming, the RACES Net, and is OEM Training and Exercise Committee Liaison

Andrea Montrose manages membership and training

Mike Montrose is the webmaster and manages the information site

Chris Van Winkle manages the Monthly COMMEX Net and is a Baltimore Traffic Net (BTN) Liaison

Ken Reid is Senior OEM Liaison, Health Department Liaison, and LEPC liaison. He manages the calendar and Go Kits

Rob Hurd manages Slack, equipment and repeaters and BU Power information, and is the MARS liaison

Eric Graves is the AAA CERT Liaison and manages radio programming

Paul Mills is the Baltimore Traffic Net Liaison

We are one of the County's communications back up options



When activated by OEM, ARES can provide our served agencies with:

- Back up voice and data communication
- Situational awareness across the County via the EOC
- Radio support to key disaster managers
 Like the Incident Commander or a Shelter Manager
- Tracking of important shipments or support to staging areas
- Means to reach out via email and text over the radio...even if the Internet is down

What we can do for the County

RUNDEL COUNTY

REAR RADIO

REA

W3AAC

- Back up radio communications to our served agencies
 - Communications from the field to the EOC
 - Communication from the EOC to Incident Command or the County Mobile Command and Communications Unit (MCCU)
 - Communications from the County EOC to the State EOC
- Two-way voice radio communications using our various repeaters
 - Fixed site, mobile, handheld
- Point to point radio communications
- Regional/national high frequency (HF) communications
- Digital comms in the form of text, radiogram, standard ICS forms (like 213s).
- We can send radio to text/email via our Winlink connections or point to point, even if the Internet is down



How you can train with us if you are a licensed operator



- It is important to train before any emergency or disaster arises
 - A disaster is no place to learn how to do things
- We hold periodic COMMEX, Simulated Emergency Tests, etc.
- Plan on a simulated total lack of communications for at least part of any drill or exercise
 - We are ready to send digital communication that would be problematic on voice radio
 - Example: Specific lists, directions etc from a Shelter or Point of Distribution
 - Amateur radios are not encrypted, but digital is harder for casual listeners to hear
- The more realistic your practice communications are with us, the better we can serve the County in a disaster

How do we activate?



- The Anne Arundel ARES Team is activated only by the AACo OEM
 - No ARES Team member will ever self-activate!
- A team member serves as Activation Manager
- In the event of a unwarned disaster or emergency:
 - The County would contact the Activation Manager
 - Activation Manager would contact the available team members
- In case of a warned event, like an approaching hurricane, the ARES Team would be monitoring CivicReady, email, and local repeaters for activation instructions
- The EC (Emergency Coordinator) would lead the activation operations

ARES Radio Room in the County EOC

- The County has supplied us with a well equipped EOC Radio Room
- The holidays came early for us
 - We (the County and the ARES Team) were awarded a grant from Norfolk Southern Railroad
 - Replaces the outdated radios in the radio room and greatly adds to our capabilities
- Thanks to all who helped made this happen, especially Lydia McPherson (NSR)
 - and Emilia Taulbee (OEM Grants)!







NORFOLK SOUTHERN

"REAL WORLD" USE CASES

Notice the date!



AMATEUR RADIO STATION - WX4NHC

NATIONAL HURRICANE CENTER

SURFACE WEATHER REPORT

HOMESTING KATRINA



AMATEUR RADIO STATION - WX4NHC MATIONAL HUNNIGAME CENTER SURFACE WEATHER REPORT

ARUNDEL COUNTY
RER REPOSENCY SERVE MARYLAND

Reporting Station Callsign: W55LA "5666 Geographic Location: \$1.0611 HW5. Location (Latitude/Longitude): North Date: 8/29/05 Time of Observation: 10 Wind Speed: 90 Imph X (sustained for one minute) Imph X Wind Gust: 120 (6646) Imph X Wind Direction: Barometric Pressure: 945 Additional Comments: HWS Regional
Date: 8/29/05 Time of Observation: 10
Wind Speed: 90
(sustained for one minute)
Wind Gust: 120 (6644) mph
Wind Direction: Barometric Pressure: 945 Inches A Additional Comments: HWS REGIONAL
Wind Direction: Barometric Pressure: 945 Inches A Additional Comments: HWS REGIONAL
(convert to milibars) 745 Additional Comments: HWS REGIONAL
(convert to milibars) 745 Additional Comments: HWS REGIONAL
NO COUNTY NO BURNES PULL STORY
NO Comms, No PHONE, BULLPING STRV.
HAVE POOP LEAKS, RAPOR OK, ALL
SCOTT IS OK (PER FRANK R.), X:
AWIPS INCOMING IS OK,
MOJOR PAMOSE TO BUILDINGS IN THE
Operator: Ken Reib KG4USH
A SERVICE OF THE DADE COUNTY AMATEUR RADIO F

Harrissans KATRINA ng Station Callsi n (Latitude/Longi 8-29-05 Speed: d for one minute) Gust: Direction: netric Pressur to milibars) onal Commer ectore: Buz OFF ON PUTY DAS DISP PUT Y EMERGIGEN AH WALK OUT RE TO TREES HOW OH WIFES HEXT HE HA Operator: 8/29/2005 A SERVICE OF THE DADE COUNTY AMATRUR RADIO PUBLIC SERVICE CORPS

http://www.webmail.fiu.edu/cg

Amatuer radio ops in Haiti after satellite phones became inoperable





2011 Joplin MO Tornado





Amateur radio response locations after the tornado strike



- Hospital parking lot near triage
- Nearest working hospital
- Temporary Emergency Hospital #1
- Temporary Emergency Hospital #2
- Temporary EOC
- EMS staging area
- IC "shadow"
- Joint Information Center
- Mass Care Shelters
- Points of Distribution (PODS)



Joplin Temporary EOC/EMS Staging







Joplin EMS director at EMAG Conference in Georgia



- He said he was so overwhelmed that it took him days to get the amateur radio teams into the various locations
- · He could have had easier and quicker comms had they trained for this

In comparison, our County ARES Team is regularly included in county drills/exercises and planning meetings



The Anne Arundel County **ARES Team** thanks you for your support!



Any Questions?

Ken Reid KG4USN Anne Arundel County ARES EC

khz3895@gmail.com | 305.301.4503