



Clark County

ARES Amateur Radio Emergency Service



Radio Amateur Civil Emergency Service **RACES**

***“Providing Emergency Communications as a Public Service to
Public & Private Service Agencies in Clark County WA”***

Introduction to ARES/RACES

Clark County ARES/RACES (CCARES/RACES)

CCARC Meeting 7 Jul 2017
John Allen N9YQ CCARES EC/RO



Introduction to ARES/RACES



- **What are “ARES” and “RACES”?**
 - **ARES (ARRL Sponsored):**
 - 81st Year
 - Amateur Radio Emergency Service
 - **RACES (Government Sponsored):**
 - Radio Amateur Civil Emergency Service
 - Roots in 1950’s Civil Defense program



ARES



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

ARES can be activated before, during and/or after an emergency

The Amateur Radio Emergency Service is a national, voluntary organization of FCC licensed Hams – special radio operators who provide communications in an emergency and are organized through the American Radio Relay League (ARRL)



ARES Authorization

- Authorized by CFR Title 47 (*Telecommunications*), Part 97 (*Amateur Radio Service*), Subpart E, 97.403 (*Safety of life and protection of property*)
- “No provision of these rules prevents the use by an amateur station *of any means of radio-communication* at its disposal to provide essential communication needs in connection with the *immediate safety of human life* and *immediate protection of property when normal communication systems are not available.*”



RACES



Radio **A**mateur **C**ivil **E**mergency **S**ervice

RACES is only activated during an emergency

- Authorized by CFR Title 47 (*Telecommunications*), Part 97 (*Amateur Radio Service*), Subpart E, 97.407 (*Providing Emergency Communications*)
- Fenced Frequencies
- RACES Stations are limited as to who they can communicate with, which messages they may pass, and how long drills may last.



Amateur Radio – The Big Picture



- Over **3,000,000 Globally ... and growing**
 - Largest numbers are in [Japan](#) (1.2M), the [United States](#) (738.4K) , [Thailand](#) (176.2K), [South Korea](#) (141K),
 - Over **738,000 nationally**
 - *Extra Class* 139,991, *Advanced* 47,844, *General* 172,443
 - *Technician* **363,885** << *Wow!*, *Novice* 10,860
 - **63,811 in Northwestern Division** (AK, WA, OR, ID, MT)
 - **31,359 in Washington** (WWA 25,786 // EWA 5,573)
 - **2076* in Clark County**
 - ~270 are CCARC members, ~90 are CCARES/RACES members
 - (Cowlitz: 444*, Skamania: 78*, Wahkiakum: 43*)
- * as of 3/3/2016



There is a Difference!



- “Emergency Communications”
 - Formalized since 9/11
 - Works under NIMS/ICS
 - Structured Processes
 - Agency Support
- Operating in “Emergency Conditions”
 - Field Day
 - IOTA, SOTA, Dxpeditons, etc.



Types of Emergencies



- Routine:
 - Localized; Need for our services very selective if at all.
- Extraordinary:
 - Includes multicounty and large single jurisdiction emergencies; Communication systems at reduced capacity; Could lead to our activation
- Disaster:
 - Major failures and overloading of communication infrastructure; We will be activated



Clark County ARES/RACES



- General Information
 - ARRL membership:
 - The EC and all AECs required to belong
 - Clark County Amateur Radio Club:
 - In the past some financial support from CCARC
 - Present funds from donations, no dues
 - Share repeater systems by mutual agreements
 - Many members of both organizations
 - Clark County Regional Emergency Services Agency
 - ARES has close ties with CRESA
 - ARES/RACES resources activated by CRESA

WE DO NOT SELF-ACTIVATE



CRESA



- CRESA is a regional public safety agency that provides
 - 9-1-1 dispatch, technology services and emergency management.
 - CRESA's service area includes each of the seven cities within Clark County – Battle Ground, Camas, La Center, Ridgefield, Vancouver, Washougal, and Yacolt – as well as the unincorporated areas of the county.
- CRESA also serves as the host agency for **Region IV** Homeland Security Office, which coordinates Homeland Security efforts within four SW Washington counties – **Clark, Cowlitz, Skamania and Wahkiakum.**



Agencies We Support



- As ARES
 - Governmental Agencies
 - CRESA, Police/Sheriff, Fire
 - Non-Governmental Agencies (NGO)
 - Hospitals, Red Cross
- As RACES
 - Governmental Agencies and RACES licensed
 - CRESA, Police/Sheriff, Fire



Membership Requirements



- Current Amateur Radio License
- FEMA On Line courses
 - IS-100 *Introduction to the Integrated Command System (ICS)*
 - IS-700 *National Incident Management System (NIMS)*
- Background Check
- Current Emergency Worker Card issued by CRESA
- Some members require Dual membership:
 - CRESA, Hospitals (PHSWMC, Legacy SC), Red Cross, Search and Rescue



Organization



12 Operational Teams

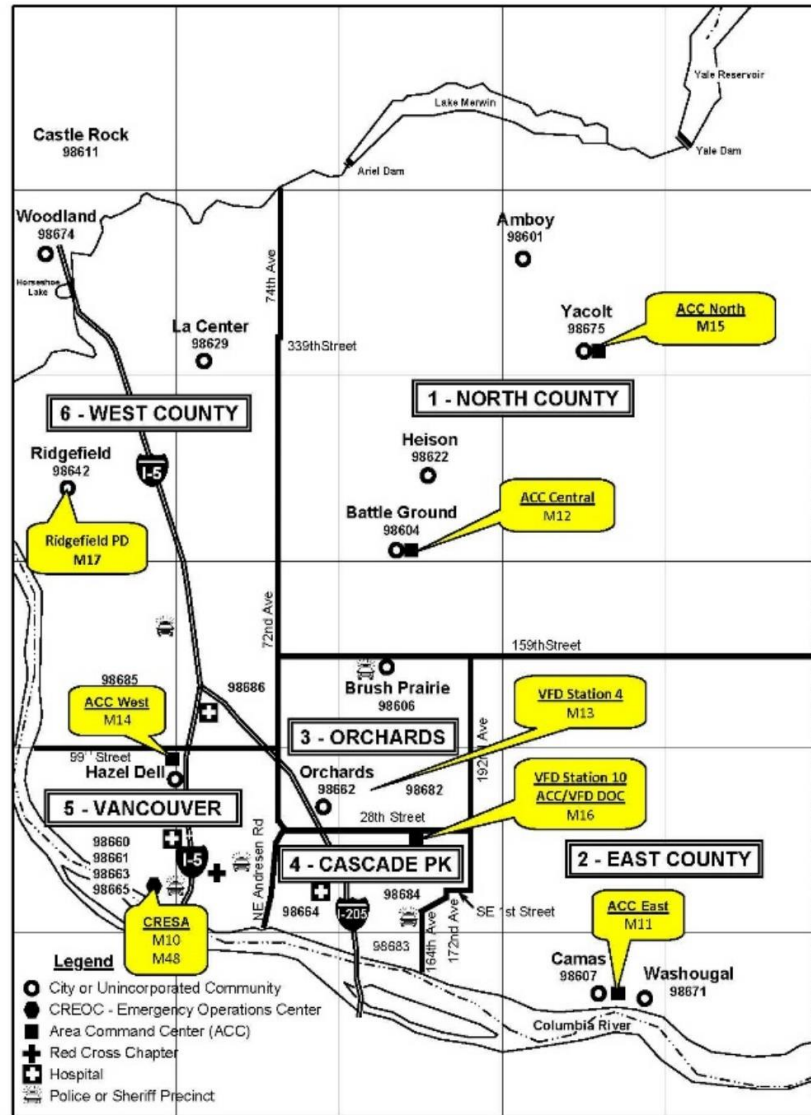
6 Geographical Teams

6 Specialized Teams



Our Geographical Teams

- Team 1 – North County
- Team 2 – East County
- Team 3 – Orchards
- Team 4 – Cascade Park
- Team 5 – Vancouver
- Team 6 – West County





Our Specialized Teams



Team 7 – Net Control

Team 8 – Peace Health SW Medical Center

Team 9 – CRESA/EOC

Team 10 – Vancouver Red Cross

Team 11 – Search and Rescue

Team 12 – Legacy Salmon Creek

----- Also -----

Team 0 – Management

Team 99 - Standby



Our Capabilities*



- Voice Communication
 - 18 VHF & 18 UHF Simplex channels
 - 7 VHF Repeaters (2 x 50MHz 2 x 144MHz, 3 x 220MHz)
 - 7 UHF Repeaters
 - ARES has exclusive use of W7AIA club repeaters during an emergency, and others with agreement from repeater owners
- Digital Messaging
 - Packet BBS System (Mt Livingston & Goose Hill)
 - Short tactical messages, no attachments
 - Winlink System (4 x 144MHz, 2 x 220MHz, 2 x 440MHz)
 - Attachments and forms

* Check with latest “Handi-Card”



Our Capabilities (Continued)



- Deployed Equipment
 - Several fixed Locations at Agencies and NGOs
 - Portable Orange Kits
 - 9 distributed to teams





CARES/RACES Operating Aid



CCARES/RACES Operating Aid



Clark County ARES- RACES   Operating Aid	1	1. Basic Plan	
	2	2. CCARES/RACES Roster	
	3	3. Alert & Call-out Procedures	
	4	4. Team Supported Agency Info	
	5	5. Team Site & Equipment Info	
	6	6. CURRENT OPERATION INFO	
	7	7. Frequencies and Channels	
	8	8. Voice Net Procedures	
	9	9. Digital System Procedures	
	10	10. Team Shift Schedules	
	11	11. Station and/or Member Log	
	12	12. After Action Report	

April 2012



Operating Aid Sections



1. Basic Plan
2. CCARES/RACES Roster*
3. Alert & Callout Procedures
4. Team Supported Agency Info
5. Team Site & Equipment Info
6. CURRENT OPERATION INFO
7. Frequencies and Channels
8. Voice Net Procedures
9. Digital System Procedures
10. Team Shift Schedules
11. Station and/or Member Log
12. After Action Report

Team Lead Resp.

You - for :

Roster update to Section 2

Copies to Section 6

*Update regularly from
CCARES Website

ccareswa.org -> Resources -> Member login
Team Info -> ARES/RACES Roster



ccareswa.org



- Logging In
- Locating the Operating Aid
- Checking your profile
- Printing the ARES/RACES Roster
- Preparing for Net Control
 - Assignments
 - Check-in Log
 - Preamble