



Jayhawk Amateur Radio Society



Wyandotte County RACES

**Radio Amateur Civil Emergency Service (RACES)
Jayhawk Amateur Radio Society (JARS)**

Field Day Exercise 2010

Players' Handbook

Plan Date: June 9, 2010

Exercise Date: June 26-27, 2010

PLAYERS HANDBOOK**Handbook Date: June 9, 2010****Exercise Date: June 26-27, 2010****Exercise Director:****Emergency Management****JARS President****RACES Chief Radio Officer****Rob Brannon****Larry Eker****Ed Novak****Curt Robinson****Scenario**

The United States has been placed in the Severe Risk (RED) level. All Radio Amateur Civil Emergency Service (RACES) and Amateur Radio Emergency Service (ARES) organizations are requested to activate, setup, and maintain nation wide communications starting at 1300 hours on Saturday June 26, 2010 and maintain communications for a 24 hour period. Wyandotte County Emergency Management has requested that RACES and the Jayhawk Amateur Radio Society (JARS) to setup and maintain communications at Fire Station #6.

Maps

A map of the area is attached. All players must remain in the confines of the designated area.

Radio Frequencies and Channels:

All HF / VHF and UHF Amateur Radio Frequencies, with exception to the WARC bands, will be utilized. Refer to the attached frequency chart. Remain with-in 5KHz from the band edges.

Inter-trailer communications will be on 146.565MHz Simplex

Call in will be on the JARS Repeater 147.150MHz Positive Offset, PL 151.4

Real World Emergencies:

Real-world emergency actions take priority over exercise actions.

If the term "Real World Emergency" is used, there is an actual event, the exercise will cease. Follow the directions of the Exercise Leaders.

If the Mobile Command Vehicle and or the Communications Trailer are needed for real world emergency, they must be made ready to depart the FD site with-in 15 minutes of the announcement.

Schedule:

Event Time	Players	Event Description
Friday June 25		
Afternoon	Fleet	MCV Delivered to Fire Station #6
Saturday June 26		
0900-1000	Ed Rust	CERT and Comm Trailers Delivered
1000	RACES / JARS Teams	Setup Begins
1300	RACES / JARS Teams	On Air Event Begins
1800	RACES / JARS Teams	Field Day Dinner
Sunday June 27th		
1000	RACES / JARS Teams	Teardown Begins
1300	RACES / JARS Teams	On Air Event Ends
1500	RACES / JARS Teams	Teardown Complete, Teams Demobilized
Monday June 28th		
Morning	Fleet	MCV Returned to Fleet Center

Setup:

Refer to the attached drawings for the basic equipment locations, and antenna setups.

MCV – HF Digital – located in rear of the MCV

ICOM IC-7000, LDG AT-200PRO Tuner, Hustler Mobile Antennas

HF Voice – located in the front of the MCV

ICOM IC-746PRO, LDG AT-200PRO Tuner, DX Eng Balun, Longwire Antenna

CERT Trailer – HF CW

ICOM IC-746 PRO, LDG AT-200PRO Tuner, DX Eng Balun, Longwire Antenna

Comm Trailer – GOTA Station, HF Voice

ICOM IC706M2G, LDG AT-200PRO Tuner, Inverted V wire Antenna

Sign-in / Sign-Out

All participants and guests must sign-in when entering the area and sign-out when leaving the area. Sign-in and Sign-out roster will be located in the mobile command vehicle. If the MCV is deployed for an actual emergency, the roster will be located in the communications trailer.

Communications Exchange Information:

Call Letters: W0LB

Message Exchange:

Voice: 3 Alpha Kansas

CW and Digital: 3A KS

Logging Time Entries

All radio logging time will be entered in local time, 24 hour format.

Restroom Facilities:

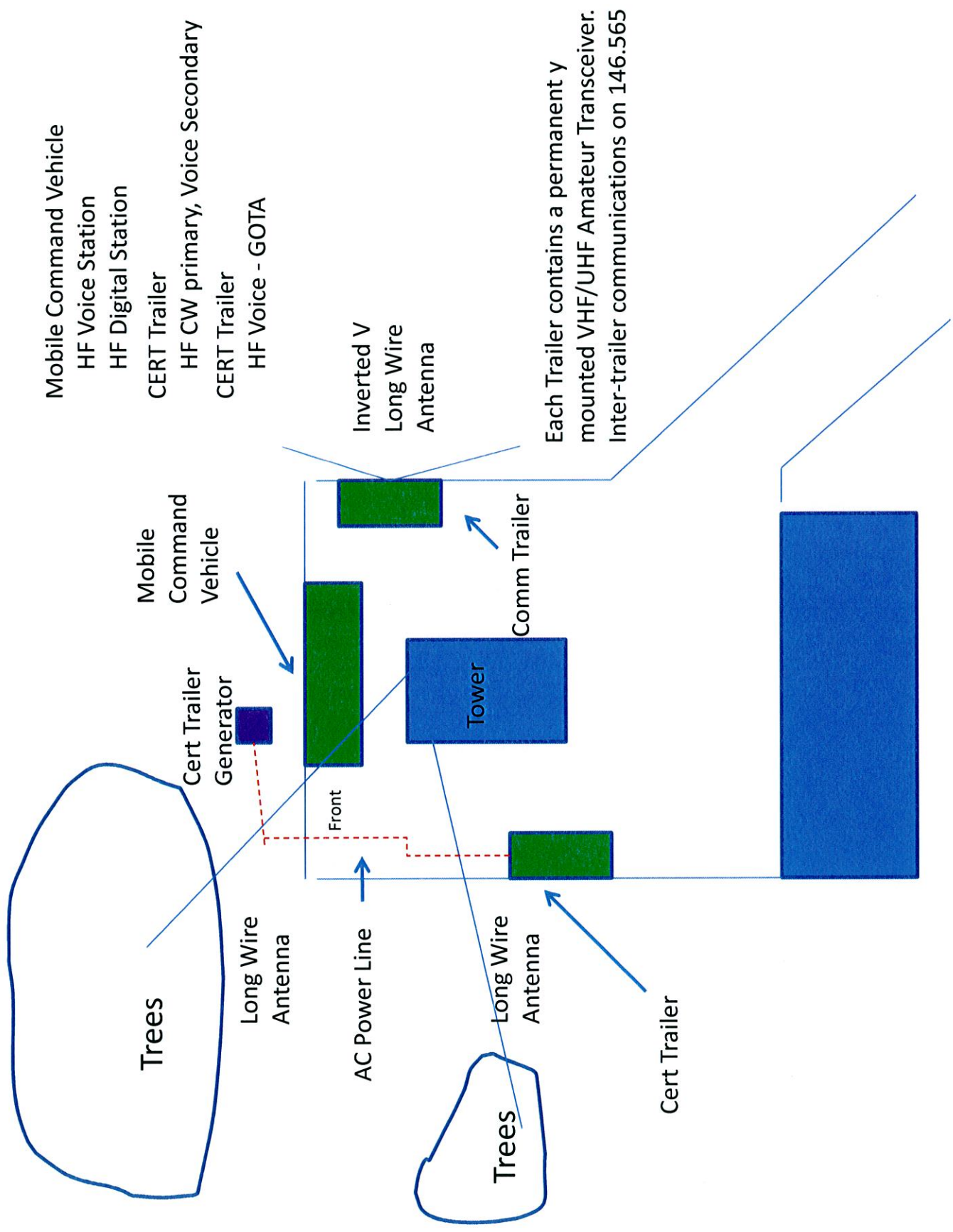
Quietly use the restroom in the Fire Station. Enter through the back door.

Parking:

Park in back of the Fire Station or the Schlitterbahn parking lot next to the Fire Station.

Addendums:

See the attached materials for additional player information.



- Mobile Command Vehicle
- HF Voice Station
- HF Digital Station
- CERT Trailer
- HF CW primary, Voice Secondary
- CERT Trailer
- HF Voice - GOTA

Inverted V
Long Wire
Antenna

Each Trailer contains a permanent y
mounted VHF/UHF Amateur Transceiver.
Inter-trailer communications on 146.565

Trees

Long Wire
Antenna

Front

AC Power Line

Long Wire
Antenna

Trees

Cert Trailer

Tower

Comm Trailer

Mobile
Command
Vehicle

Cert Trailer
Generator

US Amateur Radio Bands

US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications. Power is rated in watts PEP output. Except where noted, the maximum power output is **1500 Watts**.

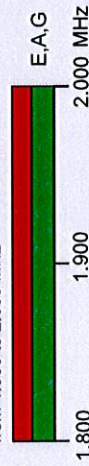
Effective Date
May 6, 2008

Published by:
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www.arrl.org
225 Main Street, Newington, CT USA 06111-1494

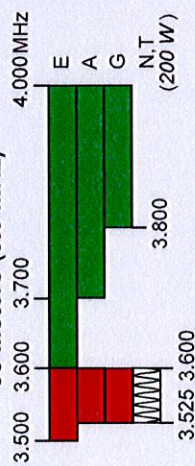


160 Meters (1.8 MHz)

Avoid interference to radiolocation operations from 1,900 to 2,000 MHz



80 Meters (3.5 MHz)



60 Meters (5.3 MHz) USB only

2.8 kHz

Mode	Frequency Range (MHz)
E	5.300 - 5.330
A	5.330 - 5.360
G	5.360 - 5.400

5330.5, 5346.5, 5366.5, 5371.5, 5403.5 kHz
General, Advanced, and Amateur Extra licensees may use the following five channels on a secondary basis with a maximum effective radiated power of 50 W PEP relative to a half wave dipole. Only upper sideband suppressed carrier voice transmissions may be used. The frequencies are 5330.5, 5346.5, 5366.5, 5371.5 and 5403.5 kHz. The occupied bandwidth is limited to 2.8 kHz centered on 5332, 5348, 5368, 5373, and 5405 kHz respectively.

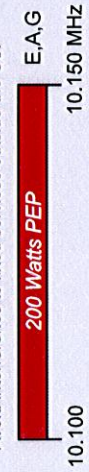
40 Meters (7 MHz)



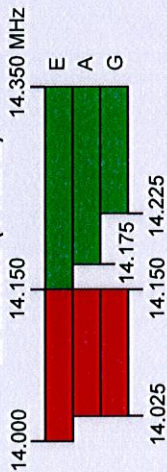
Phone and image modes are permitted between 7.075 and 7.100 MHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU Region 2 West of 130 degrees West longitude or South of 20 degrees North latitude. See Sections 97.305(c) and 97.307(f)(11).
Novice and Technician licensees outside ITU Region 2 may use CW only between 7.025 and 7.075 MHz and between 7.100 and 7.125 MHz. 7.200 to 7.300 MHz is not available outside ITU Region 2. See Section 97.301(e). These exemptions do not apply to stations in the continental US.

30 Meters (10.1 MHz)

Avoid interference to fixed services outside the US.



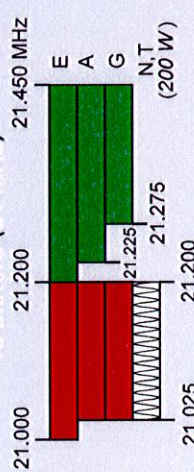
20 Meters (14 MHz)



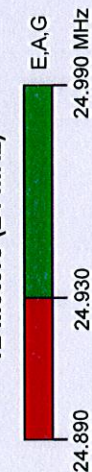
17 Meters (18 MHz)



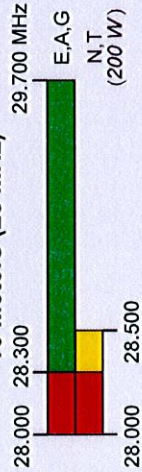
15 Meters (21 MHz)



12 Meters (24 MHz)



10 Meters (28 MHz)



6 Meters (50 MHz)



2 Meters (144 MHz)



1.25 Meters (222 MHz)



*Geographical and power restrictions may apply to all bands above 420 MHz. See *The ARRL Operating Manual* for information about your area.

70 cm (420 MHz)



33 cm (902 MHz)



23 cm (1240 MHz)



All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	10.0-10.5 GHz	122.25-123.0 GHz
2390-2450 MHz	24.0-24.25 GHz	134-141 GHz
3300-3500 MHz	47.0-47.2 GHz	241-250 GHz
5650-5925 MHz	76.0-81.0 GHz	All above 275 GHz

KEY

Note:
CW operation is permitted throughout all amateur bands except 60 meters.
MCW is authorized above 50.1 MHz, except for 219-220 MHz.
Test transmissions are authorized above 51 MHz, except for 219-220 MHz

- █ = RTTY and data
- █ = phone and image
- █ = CW only
- █ = SSB phone
- █ = USB phone only
- █ = Fixed digital message forwarding systems *only*

- E = Amateur Extra
- A = Advanced
- G = General
- T = Technician
- N = Novice

See *ARRL Web* at www.arrl.org for detailed band plans.

ARRL
We're At Your Service

ARRL Headquarters:
860-594-0200 (Fax 860-594-0259)
email: hq@arrl.org
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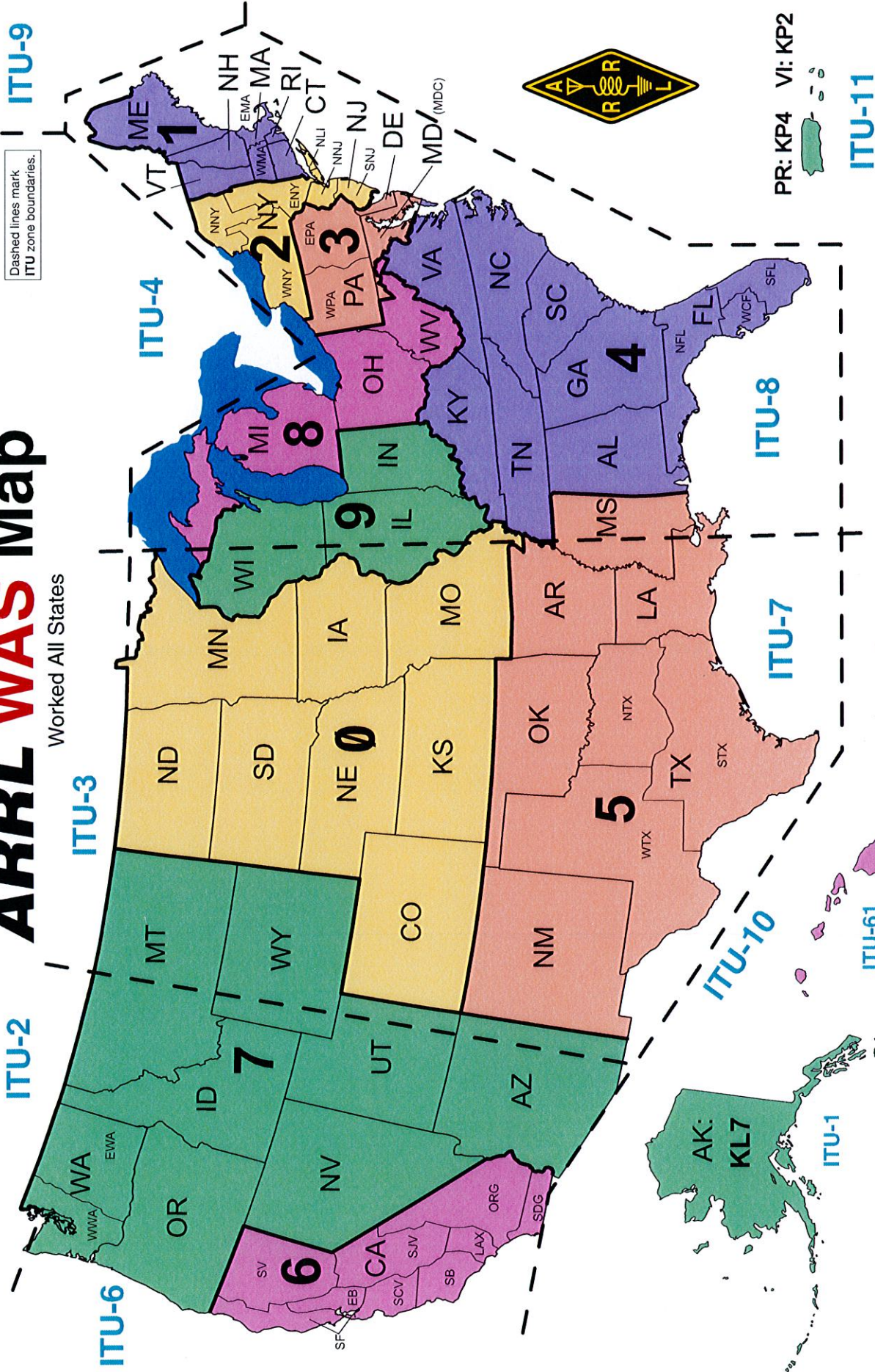
Getting Started in Amateur Radio:
Toll-Free 1-800-326-3942 (860-594-0355)
email: newham@arrl.org

Exams: 860-594-0300 email: vec@arrl.org

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ARRL WAS Map

Worked All States



Dashed lines mark ITU zone boundaries.

PR: KP4 VI: KP2

ITU-11

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- ARRL Headquarters 860-594-0200 (Fax 860-594-0259)
- Publication Orders Toll-Free 1-888-277-5289 (860-594-0355)
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- Exams 860-594-0300
- ARRL on the World Wide Web www.arrl.org/

HI and Pacific: KH6

The national association for
ARRL AMATEUR RADIO

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- hq@arrl.org
- orders@arrl.org
- membership@arrl.org
- newham@arrl.org
- vec@arrl.org

ARRL / RAC SECTION ABBREVIATIONS

1		6	
Connecticut	CT	East Bay	EB
Eastern Massachusetts	EMA	Los Angeles	LAX
Maine	ME	Orange	ORG
New Hampshire	NH	Santa Barbara	SB
Rhode Island	RI	Santa Clara Valley	SCV
Vermont	VT	San Diego	SDG
Western Massachusetts	WMA	San Francisco	SF
		San Joaquin Valley	SJV
		Sacramento Valley	SV
		Pacific	PAC
2		7	
Eastern New York	ENY	Arizona	AZ
New York City-Long Island	NLI	Eastern Washington	EWA
Northern New Jersey	NNJ	Idaho	ID
Northern New York	NNY	Montana	MT
Southern New Jersey	SNJ	Nevada	NV
Western New York	WNY	Oregon	OR
3		Utah	UT
Delaware	DE	Western Washington	WWA
Eastern Pennsylvania	EPA	Wyoming	WY
Maryland-DC	MDC	Alaska	AK
Western Pennsylvania	WPA		
4		8	
Alabama	AL	Michigan	MI
Georgia	GA	Ohio	OH
Kentucky	KY	West Virginia	WV
North Carolina	NC	9	
Northern Florida	NFL	Illinois	IL
South Carolina	SC	Indiana	IN
Southern Florida	SFL	Wisconsin	WI
West Central Florida	WCF		
Tennessee	TN		
Virginia	VA		
Puerto Rico	PR		
Virgin Islands	VI	0	
5		Colorado	CO
Arkansas	AR	Iowa	IA
Louisiana	LA	Kansas	KS
Mississippi	MS	Minnesota	MN
New Mexico	NM	Missouri	MO
North Texas	NTX	Nebraska	NE
Oklahoma	OK	North Dakota	ND
South Texas	STX	South Dakota	SD
West Texas	WTX		

CANADA			
Maritime	MAR	Saskatchewan	SK
Newfoundland/Labrador	NL	Alberta	AB
Quebec	QC	British Columbia	BC
Ontario	ON	Northern Territories	NT
Manitoba	MB	{Includes the Northwest, Yukon and Nunavut territories}	