



KENTUCKY NLE EXERCISE 2011 AMATEUR RADIO



NLE EXERCISE



NLE EXERCISE DATE AND TIMES: May 16-20, 2011

**Communications: Monday - Thursday from 8:00 A.M. to 5:00 P.M.
Friday the 20th will be an after action in Frankfort.**

This exercise is unique in that it allows all KY amateur radio operators the opportunity to participate in a statewide exercise without leaving home. It is our desire that you will work with partners in your community to determine your level of preparedness for a major earthquake on the New Madrid Fault. It will be a success if government agencies and officials, schools, emergency response agencies, emergency management officials and businesses join together to prepare for the inevitable.

The MARS Plan will be published and distributed internally



NLE EXERCISE



KY ARES Frequency Plan

- **75 Meters**
- **3960 Khz SSB State-Wide Emergencies 2100Z to 1400Z**
- **3972.5 Khz SSB State-Wide Backup (KEN) 2100Z to 1400Z**
- **3868 Khz SSB State-Wide Backup 2100Z to 1400Z**
- **3993.5 Khz SSB State-Wide Tactical from 2100Z to 1400Z**
- **3590 Khz RMS Packet State-Wide Tactical/Resource from 2100Z to 1400Z (WINLINK)**
- **3585 Khz State-Wide Tactical/Resource from 2100Z to 1400Z (KDN)**

- **40 Meters**
- **7228 Khz SSB State-Wide Tactical (KEN) from 1400Z to 2100Z**
- **7198 Khz SSB State-Wide backup from 1400Z to 2100Z**
- **7180 Khz SSB State-Wide backup from 1400Z to 2100Z**
- **7090 Khz RMS Packet State-Wide Tactical/Resource from 1400Z to 2100Z (WINLINK)**
- **7087 Khz RTTY State-Wide Tactical/Resource from 1400Z to 2300Z**



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KY ARES Frequency Plan

- **10 Meters**
- **28.090 Mhz SSB State-Wide Tactical (Digital)**
- **28.350 Mhz SSB State-Wide Tactical**

- **6 Meters**
- **50.150 Mhz SSB State-Wide Tactical**
- **52.490 Mhz FM State-Wide Tactical**

- **2 Meters - Digital**
- **145.010 Mhz Packet Statewide BBS Network 0001Z to 2359Z**
- **145.050 Mhz RMS Packet 0001Z to 2359Z (WINLINK)**
- **145.070 Mhz Packet Keyboard to Keyboard 0001Z to 2359Z**
- **144.390 Mhz APRS 0001Z to 2359Z35**

- **2 Meters - Phone**
- **146.520 Mhz National Calling**
- **146.550 Mhz State-Wide Simplex 0001Z to 2359Z**

The EOC has no 10M, 6M or Digital 2M Radio



NLE EXERCISE



-Background Information-

About the National Level Exercise 2011 (NLE 2011) - Exercise Objectives

Through a comprehensive evaluation process, the exercise will assess response and recovery capabilities both nationally and regionally. The exercise is designed to validate the following capabilities:

Communications

Critical resource logistics and distribution

Mass care (sheltering, feeding and related services)

Medical surge

Citizen evacuation and shelter-in-place

Emergency public information and warning

Emergency operations center (EOC) management

Long term recovery

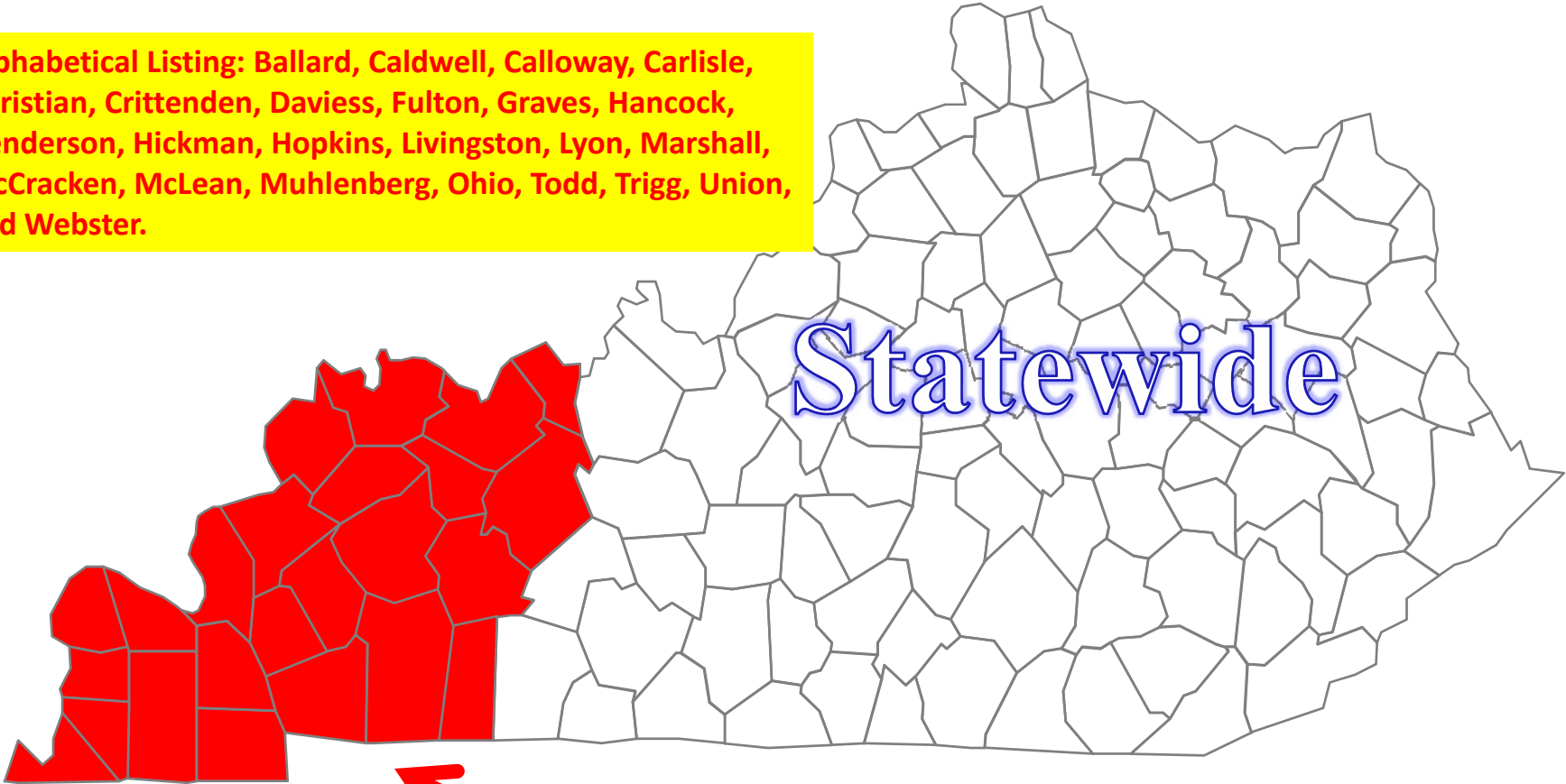


NLE EXERCISE



24 Counties Of Concern

Alphabetical Listing: Ballard, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Todd, Trigg, Union, and Webster.



We want to focus our efforts here!



NLE EXERCISE



KYEM Day by Day Exercise Focus

Day 1- Communications, Alert Notification, & Assessment

Day 2- Life Saving and Response

Day 3- Medical Surge & Evacuation

Day 4- Sustainment (On-going Operations)

Day-5- After Action Review & Long Term Recovery



NLE EXERCISE

KY ARES MISSION



Establish State, Regional, and Local level ARES nets to support critical infrastructure and allow traffic flow per the State Emergency Operations Plans, and to provide assistance in damage assessment, search and rescue, and health and welfare traffic for the Division of KY Emergency Management.



NLE EXERCISE



KY ARES GOALS

- **Operate State, Regional, and Local ARES nets.**
- **Maintain a traffic flow control structure from Local nets to Regional nets, to State nets.**
- **Test Local, Regional, and State ARES Emergency Operation Plans based on the NLE earthquake scenario.**
- **Establish contact from all counties to State CEOC.**
- **Test VIOP linking, where available outside damaged areas or via Satcom, utilizing EchoLink and IRLP.**
- **Test digital modes including but not limited to Winlink, Winmor, Packet, and PSK-31.**



NLE EXERCISE



Operational Plan

1. **A magnitude 7.7 earthquake will occur sometime early on Monday the 16th. Alert notifications will begin soon thereafter.**
2. **Local and Regional nets should begin to form after notification that the exercise has started.**

Realistically, notification in the damaged WKY counties of concern will be difficult or imposable due to downed infrastructure. These counties will know about it anyway and hopefully all will remain safe non injured from structural damage.

 - A. **Local and Regional nets should test existing emergency plans.**
 - B. **WKY counties west and north of the red significant damage line should operate in simplex mode only. Repeaters should be treated as damaged due to structural collapse or equipment failure.**



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Operational Plan

3. **A State Level net shall begin per the ARES Plan.**
4. **Communications checks and signal reports should be completed on these nets until the scripted exercise traffic begins.**
5. **The simulation center, White Cell, located in Somerset, KY will inject scripted traffic play to the CEOC and other locations via several avenues of communications including amateur radio.**
4. **Stations should relay intelligence reports on Named Areas of Interest, NAIs. (Refer to J2 briefing for details on NAIs)**
5. **All stations are encouraged to check into any exercise net during one of the days of operation. Again, even if participation is not available for the duration of the exercise, KY Emergency Management has invited all to check in from all counties across the State.**



NLE EXERCISE



COMEX DETAILS

The Kentucky Emergency Operations Center will monitor and relay exercise traffic on the following Amateur Radio VHF and UHF Repeaters:

- Frankfort 147.105 + 107.2 PL (EchoLink Node #XXXXXX)
- Richmond / Madison County 451988 146.865 192.8
- Shelbyville/Waddy IRLP link to Williamsburg 444.050 + 95.1 PL
- Brooks 147.600 - 79.7 PL (EchoLink Node # 124812)

KY4EOC will also monitor the following KY ARES HF channels:

0800-1600 EST

40 meters Daytime – Primary 7228.0Mhz LSB
Secondary 7198.0Mhz LSB

1600-0800 EST

75 meters Night time – Primary 3972.5Mhz LSB
Secondary 3960.0Mhz LSB



NLE EXERCISE



- KY4EOC KENTUCKY CEOC
- WHITE CELL
- VHF REPEATERS
- UHF LINKED REPEATERS

Location Frankfort
 Output 147.105
 Call_Sign _____-L
 Node XXXXXX
 CTCSS 107.2

**KENTUCKY CEOC
 AT BOONE CENTER**

**Frankfort 147.105+
 102.7pl**

**Shelbyville
 444.050+ 95.1pl**

Brooks 146.700- 79.7pl

Location Louisville
 Output 146.700
 Call_Sign K9SOA-R
 Node 124812
 CTCSS 79.7

Berea 146.715- 100.0pl

**Somerset
 224.300-**

**Williamsburg
 444.050+ 100.0pl**

**WHITE CELL
 AT SOMERSET KY**

- PRIMARY PATH ON UHF 444.050 LINKED SYSTEM
- SECONDARY PATH ON VHF BERA 146.715 RPT
- PRIMARY ECHOLINK PATH VIA FRANKFORT 147.105
- SECONDARY ECHOLINK PATH VIA BROOKS 146.700

Location Somerset
 Output 224.300
 Call_Sign H4AI -R
 Node 168854

INBOUND WHITE CELL TRAFFIC TO FRANKFORT KY EMERGENCY OPERATIONS CENTER





NLE EXERCISE



KY4EOC KENTUCKY CEOC

VHF REPEATERS

HENDERSON EOC TOWER

Brooks 146.700- 79.7pl

Location Louisville
Output 146.700
Call_Sign K9SOA-R
Node 124812
CTCSS 79.7

KENTUCKY CEOC AT BOONE CENTER

Frankfort 147.105+ 102.7pl

Location Frankfort
Output 147.105
Call_Sign _____-L
Node XXXXXX
CTCSS 107.2

***HENDERSON EOC TOWER TO BROOKS**

EchoLink to Frankfort or Brooks

KY ARES HF NET

EMAIL via WINLINK SYSTEM

PRIMARY PATH Email: eocham@ng.army.mil

PATH ON VHF VIA BROOKS 146.700

PATH ON HF

PRIMARY ECHOLINK PATH VIA FRANKFORT 147.105

SECONDARY ECHOLINK PATH VIA BROOKS 146.700

INBOUND NLE TRAFFIC TO FRANKFORT KY EMERGENCY OPERATIONS CENTER

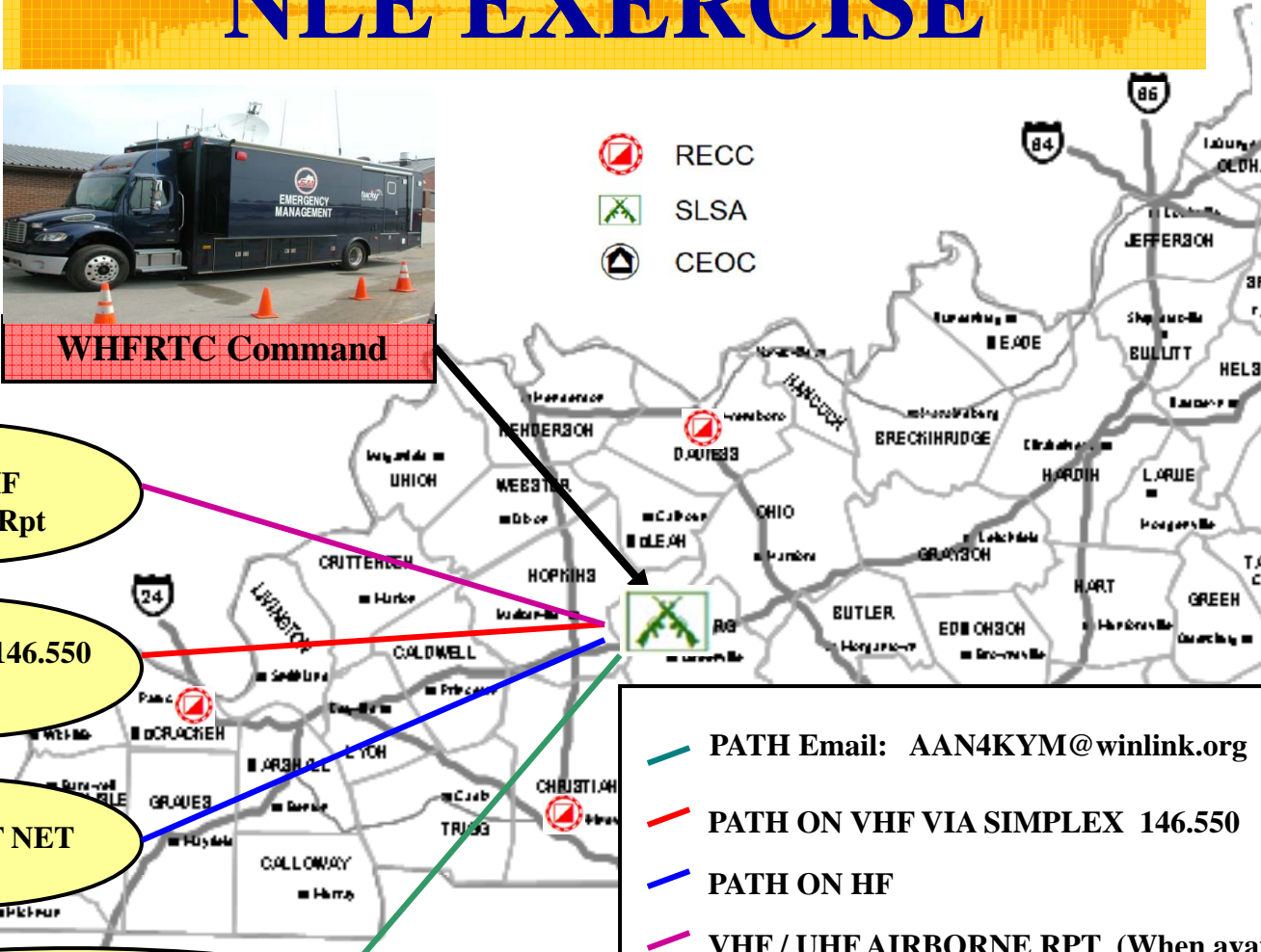




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-  RECC
-  SLSA
-  CEOC







VHF / UHF Airborne Rpt

VHF Simplex 146.550

KY ARES HF NET

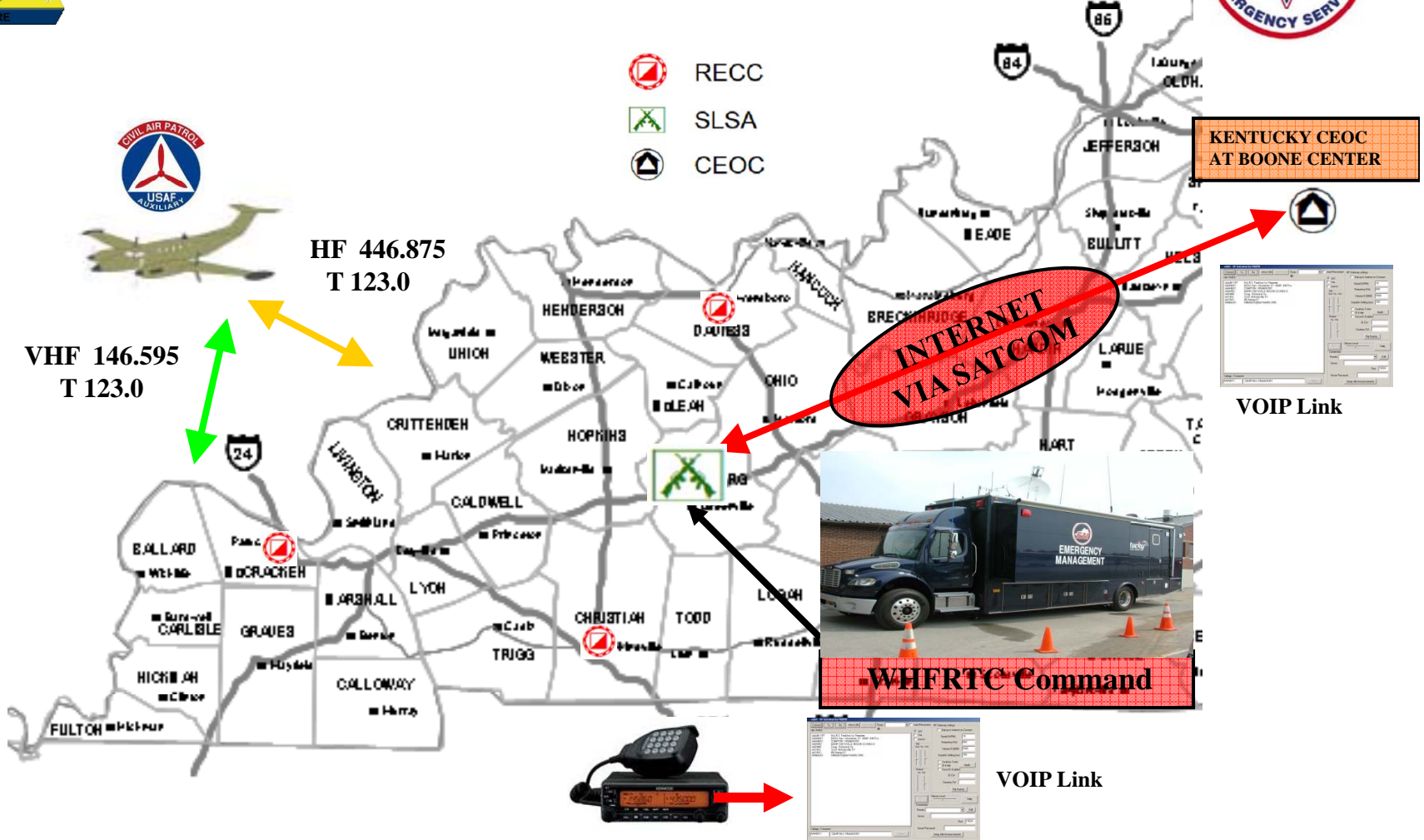
EMAIL via WINLINK SYSTEM

-  PATH Email: AAN4KYM@winlink.org
-  PATH ON VHF VIA SIMPLEX 146.550
-  PATH ON HF
-  VHF / UHF AIRBORNE RPT (When available)

INBOUND NLE TRAFFIC TO WHFRTC KY FORWARD EMERGENCY OPERATIONS CENTER



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*The EMMCV at WHFRTC will receive and retransmit to Frankfort via VOIP link

AIRBORNE AMATEUR VHF/ UHF CROSS-BAND REPEATER