

EmComm Training Organization

Nationwide Communications Semi-Annual Drill November 12th, 2022

Scenario and Guidelines

Operation “Incoming”

EmComm Training Team
EmComm-Training.org

11-12-22 Semi-Annual Drill
Final v1.2

EmComm Training Organization

ETO Training Exercises and Drills

Some reminders, especially for new arrivals to ETO:

- Read and Follow the Instructions **PRECISELY**. Details are sometimes missed in the reading, and some of our assignments can be tricky!
- Make sure you address the correct Clearinghouse for your geographic location (especially if you're temporarily in a different region).

Our Tactical Addresses are all formatted as "ETO-nn", where nn is *always* either a 2-digit number ("01", "03", ..., "10") or "CAN" for Canadian participants or "DX" for all others.

Make sure you type a ZERO, not the letter "O", in the 2-digit number.

If you don't know your Clearinghouse's Tactical Address, Use this web page to look it up: https://emcomm-training.org/More_Info.html#Maps

- Suggestion: put your own "normal" Email Address in the CC box, so that you receive a copy in your non-Winlink Email, as another confirmation that your Winlink message was sent out correctly.
- IMPORTANT! Always restart Winlink Express to ensure you have the current version, and the latest Template updates. The Winlink Development Team (WDT) is constantly updating both.
- ETO exercises are designed to be completed using the Winlink Express client, in a Windows environment. If you choose to use any other Winlink Client Program, "your mileage may vary," and your response may not be mapped or graded as Correct.
- Avoid common errors as outlined on our website:

https://emcomm-training.org/Winlink_Thursdays.html

Continue to the next pages for Exercise/Drill instructions.

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Purpose

The purpose of the Nationwide ETO (EmComm Training Organization) semi-annual communications drill is to demonstrate the ability of Amateur Radio to provide accurate and timely messaging by forms using email over radio (Winlink) to further the mission of the agencies and organizations that we serve. This can involve partners including the Amateur Radio Emergency Service (ARES), Radio Amateur Civil Emergency Service (RACES), Auxiliary Communications Service (ACS), along with many other government agencies and non-government organizations. As accuracy and reproducible documents are a cornerstone of modern disaster communications, the primary emphasis will be on digital written forms of communications, as opposed to verbal.

Objectives

- Amateur radio stations, in an imaginary disaster scenario where the conventional infrastructure is compromised, will compose and send forms/emails using the Winlink “email over radio” system to ETO clearinghouses and, optionally, P2P stations if the conditions demand it
- Create an added drill component to compose and send messages/forms by Winlink P2P
- Include additional tasks for participants in messaging, including the attachment of images
- Continue to emphasize digital modes for achieving accuracy and timeliness of messaging
- Encourage partner organizations to participate in their own local operations during the drill
- Prepare and train amateur radio operators to effectively use the Winlink system
- Determine weaknesses that future training can address

Semi-Annual Drill Scenario

THIS IS A DRILL

During March of 2022, Astronomers noted the apparent disappearance of a Near Earth Object (NEO) that often passes harmlessly near Earth orbit every few years. This object dubbed AN99A was suspected of being in a collision with another asteroid in January. This asteroid was fairly large at 0.74 km, but was not normally considered a potentially hazardous asteroid (PHA). Astronomers were spending a fair amount of time looking for possible fragments associated with the suspected collision earlier in the year.

On November 10th, the search for the collision fragments took a frightening turn as numerous objects were spotted very close to the Earth. The first sightings were picked up by amateur astronomers and later confirmed by ground observatories. A total of 57 fragments were observed ranging from 8 meters to over 34m in length. There was little doubt that several hundred other small fragments were also present, although unobserved. Most indications were that the fragments would not be close enough to be captured by the Earth's gravity for an impact. This turned out to be a significant error.

On Friday, November 11th, leading smaller fragments began entering the atmosphere at 30,000 kph in what clearly would be a peppering effect on parts of the globe. Best Jet Propulsion Laboratory (JPL) estimates were that the fragments would primarily affect North America, although other parts of the globe would also see impacts. JPL advised people to not underestimate the damage potential even from a small fragment. They reminded us that the large Barringer Meteor Crater in Arizona was carved out by an object that was likely less than 40m across but still yielded energy in the megaton class range.

During the evening of November 11th, larger fragments began to enter the atmosphere and were observed worldwide. For the first time, the US Emergency Alert System was activated nationwide for a non-test situation. States of national emergency were declared in the US, Canada, and Mexico. The angle of atmospheric entry would be low enough for the fragments to lose mass on their way in, but also create a broad peppering event over a very large swath of territory. This would not be the catastrophic asteroid impact often depicted by Hollywood and television, but would still pose very serious damage potential.

Larger fragments began impacting the eastern and central US at just over 9 PM eastern time. Multiple strikes were reported in numerous areas including New Hampshire, New Jersey, Maryland, and South Florida. Similar impacts were reported in the midwestern and plains states including IL, KS, OH, Western TX and Mountain Home AR. Although none of these impacts were in the megaton range like the Barringer crater in AZ, a few had impacts near 0.3 kt causing localized extensive damage and fires.

Canada reported at least 3 strikes including near Halifax Nova Scotia, just outside Winnipeg, and near Vancouver. Satellites are showing dozens of smoke plumes in rural Canada where it is likely that many more smaller impacts occurred. One impact near Mexico City has caused loss of life and a raging firestorm. An impact near Puerto Rico has caused extensive wave action and inundation over parts of the island.

It appears that the largest fragments came in last and impacted the US west coast and HI. A fragment estimated nearly 6m in size impacted central CA with energies well into the Kiloton range along with several other smaller pieces in AZ, WA, and other areas of CA. Many other fragments likely impacted areas near the Rocky Mountains as well. The largest fragment appears to have impacted in the Pacific Ocean just east of Oahu Hawaii with energies over 18 kt and an induced impact tsunami of nearly 4-5m washing ashore in SE sections of the island.

The greatest impacts appear to be fire-related, as well as the Tsunami near HI. Several of the small undetected impacts have caused long-range power transmission line damage. Power is out in many parts of the US. Communications and especially the internet, is suffering from a lack of capacity in addition to localized damage. Cell phones remain jammed from the call volumes. DHS/FEMA is looking for a way to estimate localized damage. They have asked that amateur radio operators report infrastructure and other damage that has occurred. They have asked if these reports could be done with digital, and Winlink in particular. Areas without working RMS Gateway Stations can use Winlink P2P as needed. This is our chance to help our local, state and federal governments in determining the situation out there in greater detail.

Drill Assumptions

For the purpose of this drill, it will be assumed that power, internet, and phone services are very sporadic throughout the US. In some areas, they may be operable and in others, they may not be functioning. This will require us to utilize additional drill options where alternate systems may be functional.

Drill components and timeline

The semi-annual drill will feature two primary components. The first is the sending of Winlink Messages via a traditional RMS Gateway Station. This can be done using HF or a VHF/UHF Winlink RMS gateway. This part is required for successful credit on the drill.

The second primary component of the drill is the sending of messages by HF Winlink Peer to Peer (P2P). Although the second component is optional, you are strongly encouraged to participate in this activity if you have HF Winlink capability. Peer to Peer could be one of the last digital capabilities we have at our disposal in certain severe disasters that damage or destroy infrastructure.

The timeline for the RMS portion of this drill will have messages starting:

Sat, November 12, 2022, 00:00 UTC (Fri, November 11, 4:00 PM PST)

Messages must be received by Sun, November 13, 2022, 06:59 UTC (Sat, November 12, 10:59 PM PST)

For the P2P (Peer-to-Peer) portion, Target Stations will operate on:

Sat, November 12, 2022, from 6:00 AM until 6:00 PM Local Time at their location.

Messaging activities using Winlink RMS Gateway Stations

Messaging Activity Overview

The main goal of the messaging activities part of this drill is to send *two messages*, each with an embedded form through a Winlink RMS Gateway Station by HF or VHF/UHF to your ETO regional clearinghouse. This drill will not be a tutorial, as we normally practice during the weekly exercises. You will demonstrate the skills you have learned from the previous Winlink Thursday exercises.

NOTE: If your message is transferring very slowly, find a Gateway Station in a better location for you. Band conditions and propagation have a huge impact on message transfer speed.

Drill Message Requirements for the first message

Participants will use the new Field Situation Report form to send situational information to their regional clearinghouse. (See Fig 1)

Field Situation Report form

The Field Situation Report form is a new addition to Winlink Express based on the SHARES Spotrep-2 form. This new form is used to gather infrastructure status information in an easy-to-use format. If you have been participating in the Winlink Thursday exercises, you will have recently used this form.

Field Situation Report

Participants using the form will start by clicking Setup near the top and insert the following text **EmComm Training Organization 1112 THIS IS A DRILL**. When using the form, participants are free to simulate infrastructure outages and report them on the form. The answers do not need to actually reflect the real-world conditions at the participant's location at the time of the drill. In addition to the answers on the form, we will be asking participants to simulate and note impact damage and fires near their locations. You will place this information *in the comments section of the form*. Participants must be careful, however, that their form answers do not conflict with the optional activity if they are attempting it. For example: if you list your internet or cell service on the form as non-functional, it would be unlikely that you could use either in the optional activity where you would follow an online link. Choose your answers carefully.

Note: If you are planning to participate in the P2P portion of the drill, you will find it helpful to select **Save Field Situation data** as provided at the bottom of the form. More on this later.

Drill Message Requirements for the second message

You will use the ICS-213 form for the second message to send your radio communications capabilities to your regional clearinghouse. (See Fig 2)

ICS-213 form

You will be sending the ICS-213 form with answers to several questions that will be posed.

You will put only the answers to the questions in the form and not the questions themselves. All answers will be on a single line alone without the numeral precedent. Each answer must be on a separate line.

ICS-213 Questions – Enter answers in “7. Message” box

Line Question


1. When you send this message via an RMS station, please list the call, mode, band and location.
2. If you are also sending this message by P2P, enter YES otherwise enter NO
3. On the band you are using for RMS, please briefly describe the quality of the signal path and throughput. (EXCELLENT/GOOD/FAIR/POOR)
4. Will you be attempting to use more than one band during this drill? (YES/NO)
5. Are you capable of HF Winlink operation? (YES/NO)
6. Are you capable of VHF/UHF Winlink operation? (YES/NO)

Note: Each answer must be on a separate line. Enter only the information requested (no line numbers or extraneous information). Use the latest version of each form (version numbers, if shown in examples, may not be current).

Fig 1.

FIELD SITUATION REPORT			
EmComm Training Organization 1112 THIS IS A DRILL			
Setup	Click to add an agency or group name	Load Field Situation data	Form info
<i>For Non-Express recipients, this form is sent as plain text in the message body. Once this page is submitted No changes or editing of this message are allowed</i>			
<div style="display: flex; justify-content: space-between;"> <div>PRECEDENCE: P/ Priority</div> <div>DATE/TIME: <input style="width: 150px;" type="text"/></div> <div>TASK #: <input style="width: 80px;" type="text"/></div> </div> <div style="margin-top: 10px;"> FROM: <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> TO: <input style="width: 300px;" type="text"/> </div> <div style="margin-top: 10px;"> INFO (CC): <input style="width: 300px;" type="text"/> </div> <p style="font-size: 0.8em; color: green; margin-top: 5px;">Call signs or E-mails entered into the TO or INFO fields above, can be multiples separated by a semicolon ;</p>			
1. Is there an EMERGENCY/LIFE SAFETY Need <input type="radio"/> YES <input checked="" type="radio"/> NO <div style="border: 1px solid #ccc; padding: 5px; font-size: 0.8em; margin-top: 5px;"> If your local situation is LIFE CRITICAL, report via 911. If 911 services are not available, a reporter may use this form and mark the block for LIFE CRITICAL; the reporter should describe the situation and provide the residential address. </div>			
<div style="display: flex; justify-content: space-between;"> <div>2. City: <input style="width: 100px;" type="text"/></div> <div>County: <input style="width: 100px;" type="text"/></div> <div>State: <input style="width: 50px;" type="text"/></div> <div>Territory: <input style="width: 50px;" type="text"/></div> </div>			
3. Latitude and longitude: <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> <div>LAT <small>Ex: 38.5567</small> <input style="width: 80px;" type="text"/></div> <div>LON <small>Ex: -116.9824</small> <input style="width: 80px;" type="text"/></div> <div>MGRS <small>Ex: 11SNR0184195204</small> <input style="width: 100px;" type="text"/></div> <div>Grid <small>FN41tq</small> <input style="width: 80px;" type="text"/></div> </div> <p style="font-size: 0.7em; color: red; margin-top: 5px;">LAT and LON are required to map this SpotRep. If entering manually use Decimal Degree format or from an attached GPS device. By default LAT, LON and MGRS to the center of the grid square listed in Express Settings</p>			
<div style="background-color: #f2f2f2; padding: 5px;"> 4a. POTS landlines functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 4b. VOIP landlines functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 5a. Cell phone voice calls functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 5b. Cell phone texts functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 6. AM/FM Broadcast Stations functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, provide broadcast station callsign/frequency that is off-the-air.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 7a. OTA TV functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, identify TV station.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 7b. Satellite TV functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 7c. Cable TV functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 8. Public Water Works functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">Comments</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 9a. Commercial Power functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 9b. Commercial Power Stable? <input type="radio"/> YES <input type="radio"/> NO- Brown outs/blinking lights <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 9c. Natural Gas Supply functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 10. Internet functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">If no, indicate Fiber/Cable/Wireless/Satellite, state provider.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 11a. NOAA weather radio functioning? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">Identify NOAA Weather Radio Transmitter by frequency, call sign or location.</div> </div>			
<div style="background-color: #f2f2f2; padding: 5px;"> 11b. NOAA weather radio audio degraded? <input type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> Unknown - N/A <div style="border: 1px solid #ccc; padding: 2px; font-size: 0.8em; margin-top: 2px;">Identify NOAA Weather Radio Transmitter by frequency, call sign or location.</div> </div>			
12. Additional Comments <small>Brief summary of current situation - expected outage times, major observations, etc.</small> <div style="border: 1px solid #ccc; height: 40px; margin-top: 5px;"></div>			
13. POC Point of Contact			
<div style="display: flex; justify-content: space-between;"> Save Field Situation data Submit Reset Form </div>			

Fig 2.

General Message (ICS 213) EmComm Training Organization 1112 THIS IS A DRILL Load ICS213 INITIAL Data Form Instructions		
1. Incident Name: Incident name is optional		
2. To (Name/Position):		
3. From (Name/Position):		
4. Subject:	5. Date:	6. Time:
7. Message: Be Brief and Concise 		
8. Approved by:		Position / Title:
Save ICS213 INITIAL Data	Submit Reset Form	Ver 41.12

Additional drill optional activities

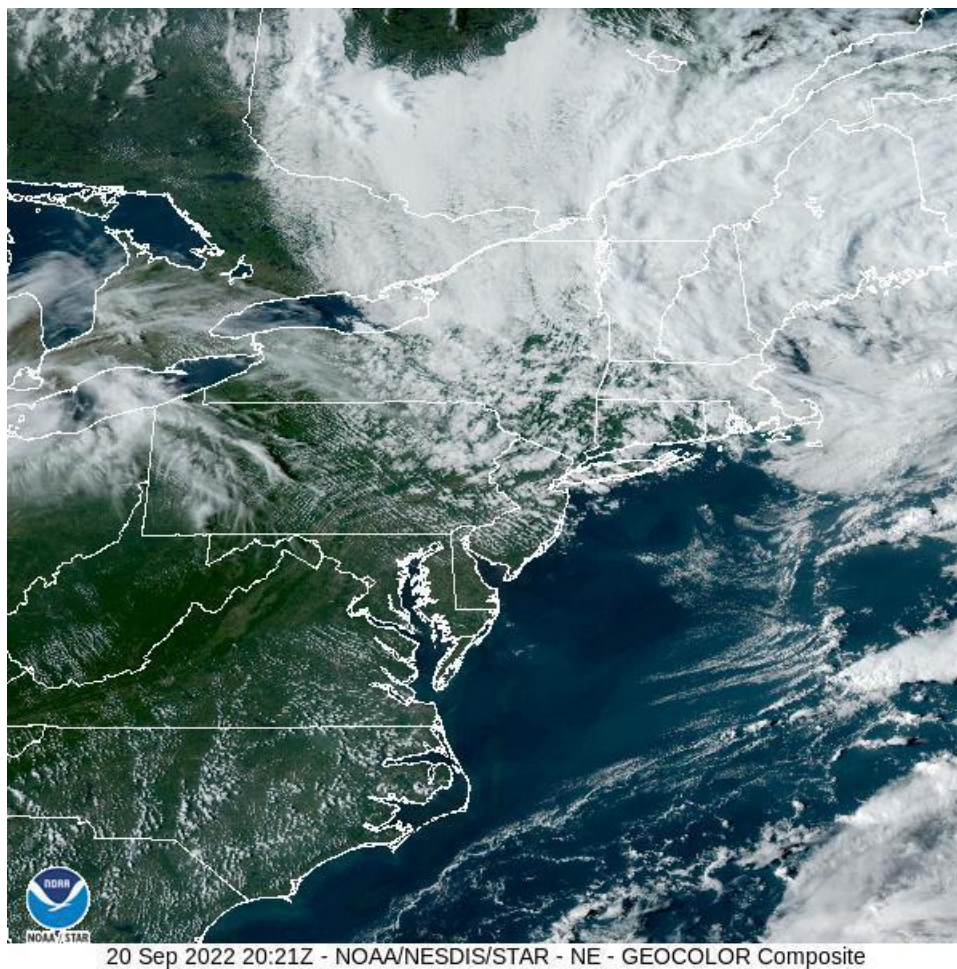
For the primary part of the drill, participants will also have an additional optional activity available.

An additional activity option is to attach an image to your ICS-213 form

Participants will go online (if possible) to find a JPG satellite image of their geographical area. It can be your state or region of the country. After you find this image, you will save it (as a JPG file), resize it to 5kb (or less) and attach it to your second message (ICS-213).

Example:

Fig. 3



Semi-annual Drill responses and grading

This section describes the grading and responses for the information reported on the Field Situation Report form.

Required responses:

- 1) Field Situation Report
- 2) General Message (ISC-213)

Grading Criteria:

- 1) Field Situation Report (MUST be included)
 - a) Header MUST be entered EXACTLY as shown
 - b) Box 1 answer MUST be NO (automatic FAIL if you answer YES)
 - c) Your correct Location (lat/long) MUST be entered
- 2) General Message (ISC-213) (MUST be included)
 - a) Header MUST be entered EXACTLY as shown
 - b) Optional - Is a properly sized JPG image file attached?
- 3) Both messages MUST be sent to your Clearinghouse (you will be sending TWO separate messages, but they will be sent consecutively, with only one connection needing to be made).
- 4) If sending to a P2P contact, again there will be two separate messages, but only one connection is needed to send both.

(P2P) Peer-to-peer Winlink operations

The P2P component of the drill will utilize the same messaging activities and options as the RMS part of the drill. The difference will be that you will not be using RMS Gateway Stations to send your messages.

ETO Peer-to-Peer (P2P) Drill Instructions

In preparation for the possibility that Winlink RMS stations become unavailable, or the main email system continues to degrade, ETO will periodically test P2P communications.

ETO Field Station Instructions

For this portion of the drill, you will send two forms (with possible attachments) to one or more designated **ETO P2P Target Stations**. (You may send to as many as you can.)

In the Main Winlink window, select the messages you created for the standard RMS portion of the drill (or create NEW messages using the **Saved data** from the original message).

1. Click the "Forward Message" icon
2. In the "Send As" drop-down window, select "Peer-to-Peer Message"
3. In the "To" box, insert the government-issued call sign of the Target station you will be calling

Be sure to listen before calling. There should be little if any QRM.

NOTE: If your message is transferring very slowly, find a Target Station in a better location for you. Band conditions and propagation have a huge impact on message transfer speed.

By making the appropriate change(s) in your message(s) (the TO box), you can continue to use the same message(s) with multiple P2P Targets

Please refer to the attached ETO P2P Target Station List to select appropriate Target(s) for P2P messages. You only need to enter the Center Frequency and Call Sign. The app will insert the Dial Frequency automatically.

You MUST set your system to 500 Hz bandwidth in TWO locations within the Winlink application to help conserve bandwidth for our P2P messaging.

Target Stations will NOT answer if you fail to do so.

1. In the **Vara HF Peer-to-Peer Session Window>Settings>Vara TNC Setup** and
2. In the **VARA HF TNC Window >Settings> VARA Setup**. (You'll find the TNC Window hiding down on your Taskbar)

Check the **ETO # 2102 Vara HF P2P 500 Hz Setup** tutorial on YouTube for instructions (link posted on ETO website, Tutorials page).

<https://youtu.be/tNgncCVXrHM>

NOTE: A complete list of Target Stations for this drill follows

ETO P2P Target Station List Frequency and Location - Nov., 2022 (Final) v1.2

Mode/Bandwidth: Vara HF 500 Hz

Alpha Team

Channel	Band	Center Freq. (KHz)	Dial Freq. (KHz)	ETO Region	Station	Location
01	80m	3581.500	3580.000	01	AB1PH	East Walpole, MA
02		3583.500	3582.000	02	W2SKY	Penfield, NY
03		3585.500	3584.000	03	W4FLX	Rocky Mount, VA
04		3587.500	3586.000	04	AB4QQ	Buford, GA
05		3589.500	3588.000	05	KC9FXE	Menomonie, WI
06		3591.500	3590.000	06	KF5ZHW	Boerne, TX
07		3593.500	3592.000	07	W0JWT	Lees Summit, MO
08		3595.500	3594.000	08*	AC6DF	Lacey, WA
09		3597.500	3596.000	09	KB6CIO	San Miguel, CA
10		3599.500	3598.000	10	N2RSN	Keno, OR
11	40m	7071.500	7070.000	02*	N9DEK	Noblesville, IN
12		7073.500	7072.000	04	ND1J	Cartoogecheye, NC
13		7077.500	7076.000	06	K5RAW	Merkel, TX
14		7081.500	7080.000	08*	KC5QOC	Albuquerque, NM
15		7083.500	7082.000	10	K8MPW	Wendell, ID
16	30m	10131.500	10130.000	01	W1IZZ	East Falmouth, MA
17		10133.500	10132.000	03	W4RJG	South Boston, VA
18		10135.500	10134.000	05	W0LEN	St. Charles, IL
19		10143.500	10142.000	07*	N9JYJ	Ponca City, OK
20		10145.500	10144.000	09	AJ6MJ	Thousand Oaks, CA
21	20m	14085.500	14084.000	02*	KB1CAD	N Attleboro, MA
22		14087.500	14086.000	04	KD4IMA	Panama City, FL
23		14089.500	14088.000	06	WA5LEE	Tomball, TX
24		14091.500	14090.000	08*	VE3MXJ	Thunder Bay, ON
25		14093.500	14092.000	10	AE7LM	Hailey, ID
26	15m	21081.500	21080.000	01	N1RDN	Sandwich, MA
27		21083.500	21082.000	03	KV4JM	Norfolk, VA
28		21085.500	21084.000	05	W9EEU	Cory, IN
29		21087.500	21086.000	07	(unassigned)	
30		21089.500	21088.000	09	K7WZX	Gilbert, AZ
Hawaii, Puerto Rico, US Virgin Islands						
31	40	7119.500	7118.000	09	AH6T	Honolulu, HI
32		7121.500	7120.000	09	KK6SMD	(HI) Link to CA
33		7123.500	7122.000	02	NP4D	Carolina, PR
34	15	21121.500	21120.000	09	(unassigned)	(HI)
35		21123.500	21122.000	02	WP4QNN	Añasco, PR

NOTES:

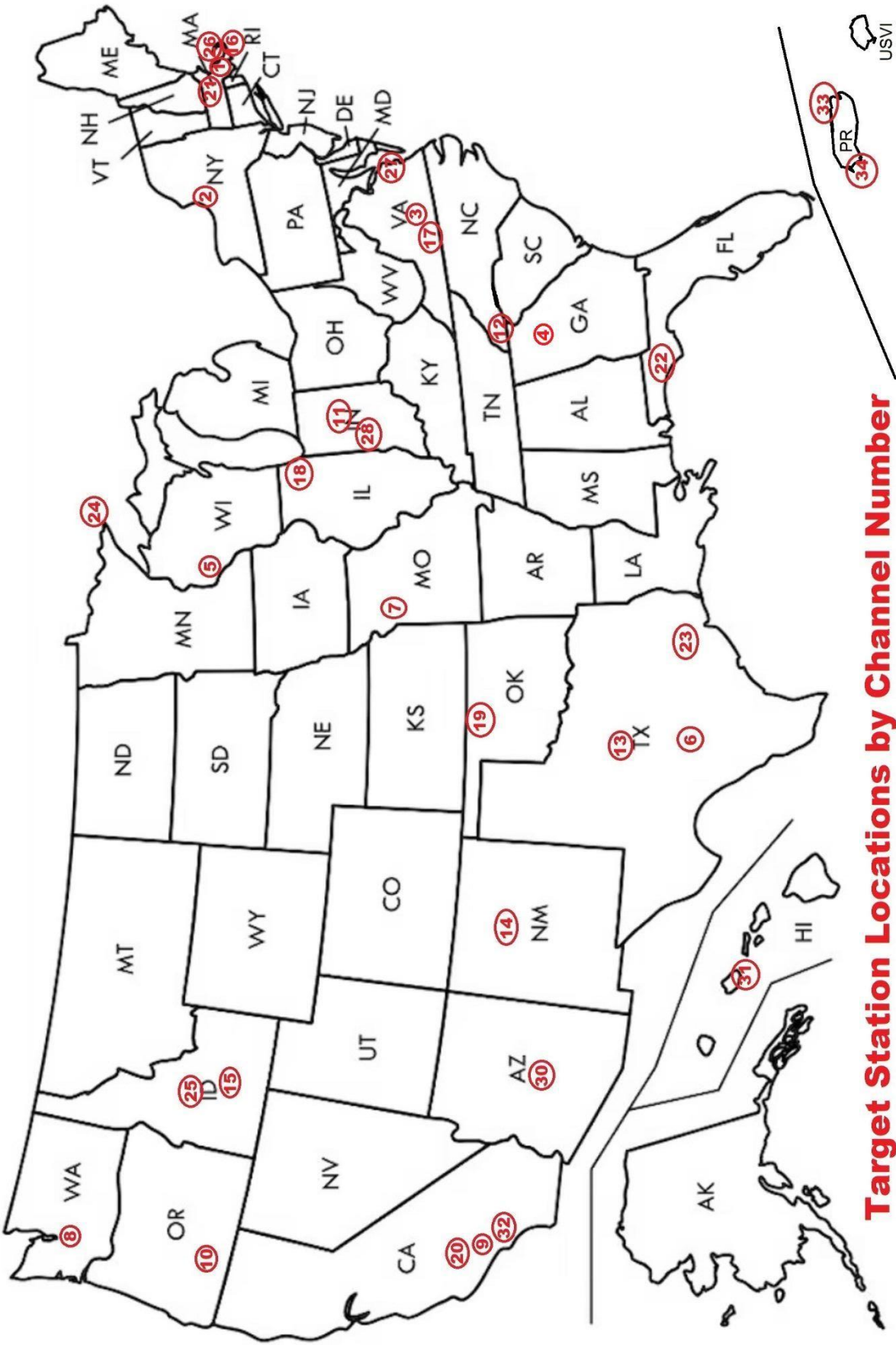
* Covering unfilled slot from adjacent Region.

BACKUP STATIONS:

NP4JN, Heber, Cayey, PR, FK68wd, 40 meters

WP4OH, Omar, Juana Díaz, PR, FK68sb, 15 meters

* Compliant with ARRL, CONOP, FCC and IARU (Region 2) Band Plans as of Jan. 20, 2022



Target Station Locations by Channel Number

(P2P) Peer-to-peer Winlink operations

ETO Target Station Instructions (v2022.11)

Scenario: For this drill, Field Stations will **create and send two messages** as outlined under **Field Station Instructions**. Please review those instructions so that you know what to expect.

As a **P2P Target Station**, you will receive the P2P transmissions from multiple Field Stations.

See the enclosed **ETO P2P Target Station List – Frequency / Location** for your specific Channel assignment. Operation is from 6:00 AM to 6:00 PM your local time unless noted otherwise.

Please also note that the entire P2P drill will be using Vara HF P2P in v500 Hz mode in order to conserve bandwidth. Field stations have been instructed to make that setting, and you also need to make sure you do the same. ***If set properly, your station will automatically reject any calls at the wrong bandwidth.***

You have all done P2P before, so we won't go through the basic setup. If you are unsure of any item, just ask on the Target Station IO group:

<https://emcomm-training.groups.io/g/P2P-Target-Stations/messages>

At the end of the drill (6:00 PM your time), you may cease operating (it's OK if you run a bit over).

All the received P2P messages should be in your Winlink Express Inbox, We suggest that you create a Personal Folder named "<year><month><date> (i.e.: 20221112) ETO P2P Drill" and Move **ONLY THE RECEIVED MESSAGES** into that folder. Then open that folder, and ...

1) Select all the messages (Click on the first message, SHIFT-Click on the last – be sure to scroll down, if necessary).

2) Select Message>Export Messages and Browse to a folder that makes sense to you.

3) Name the file "<your call sign> P2P <year><month><date>.xml" and click EXPORT.

4) Back to selected messages (make sure they are ALL still selected), go to Message>Generate ICS-309 Communication Log. Select the Personal Folder you created, **uncheck ALL other boxes** and check 'Combine recipients into a single entry.'

5) Browse to the same path for the Output pdf file (suggest the same folder as the XML file) and name it "<your call sign> ICS309 <year><month><date>.pdf". Click on the "Generate ICS-309.PDF" box.

6) Repeat Step 4

7) Browse to the path for the Output pdf file (same folder as above) and name it "<your call sign> ICS309 <year><month><date>.csv". Click on the "Generate ICS-309.CSV" box, making sure that "Column Delimiter" is set to **Comma**.

6) Send all 3 files to: **ETO@LNAINC.com** by **regular email** and CC to **Bob Tykulsker KM6SO (rtykulsker@gmail.com)** for the mapping operation.

Please send it ASAP after the drill. Do not send anything else.

ETO semi-annual drill mapping

Mapping will be available after the conclusion of the drill and completion of the data analysis.

A link will be provided on the ETO website.

International Amateur Participation

International stations that wish to participate in the drill are welcome to do so by addressing their message to the ETO-DX clearinghouse. We ask that you use the same timeframe as established at the beginning of the document and convert the listed time frame to your time.

Those in Canada can address their messages to ETO-CAN

International stations may also participate in the P2P portion of the drill. Please read the instructions carefully, and be aware of the operating times for the Target Stations (UTC -4, -5, -6, and -7 hours coinciding with Eastern, Central, Mountain, and Pacific US Time zones).

Partner Organizations Local Exercises

Many times, local partner organizations such as ARES, RACES, and AUXCOMM like to conduct local exercises in conjunction with larger ongoing drills. Local groups should feel free to conduct their localized exercises as they wish. Feel free to use our scenario if desired. Localized exercises will not be connected to our nationwide operation, but we encourage all organizations to take as many training opportunities as possible.

Frequently Asked Questions (FAQ)

1. Do I need to do all parts of this drill?

A: No. The first primary part of the drill using an RMS gateway is required. You are free to do the optional activity and are encouraged to try the P2P part of the drill if you are able.

2. What if I am new or have not worked with the form used in this drill?

A: You can look at all of the ETO Winlink Thursday exercises conducted this year on our website www.emcomm-training.org. There you can find the instructions for each one. ETO conducts basic training on an ongoing basis during the calendar year. You will have ample opportunities to participate in exercises almost identical to those you see listed on the webpage.

3. What if I am connected to an RMS gateway station or a P2P target station and my connection is very slow?

A: You should consider changing to another gateway or target station. This can also be on another band, if necessary. This action provides two benefits. This first is that it will help facilitate your message in a more timely manner. It will also free up the original station or gateway for others that may get a better connection throughput.

4. If I have trouble reaching my regional Target Station, how shall I proceed?

A: You may send your P2P message(s) to any Target Station of your choice. We recommend trying stations on different bands in order to gauge the current propagation situation.

5. Can I combine both the FSR and the ICS-213 forms into one message?

A: In this exercise, you may not. The reason is that only the first message will be “human readable” due to how Winlink operates. So you must have each message as a separate item - but they will be sent with one connection as long as they are both in your Outbox, and properly addressed.