

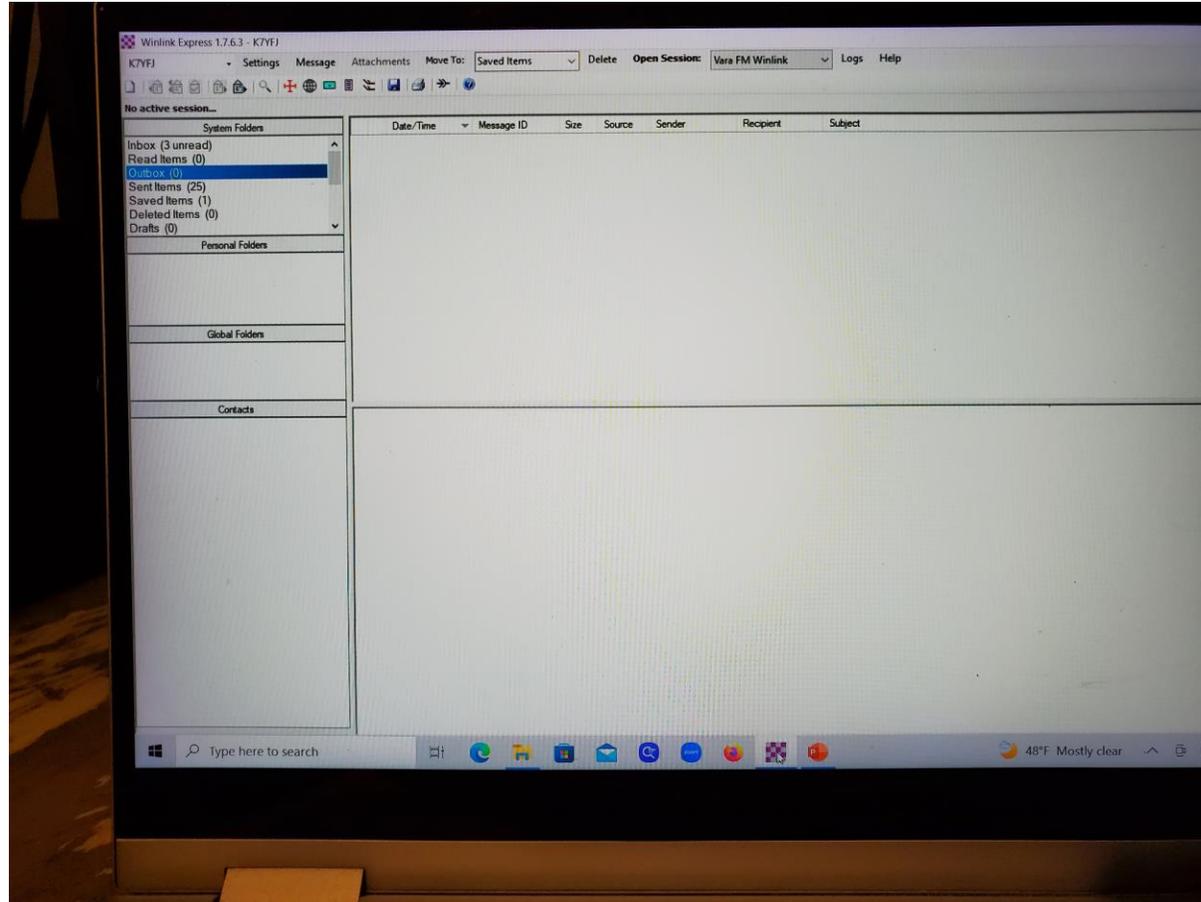
# WINLINK OPERATION

KB7RHI

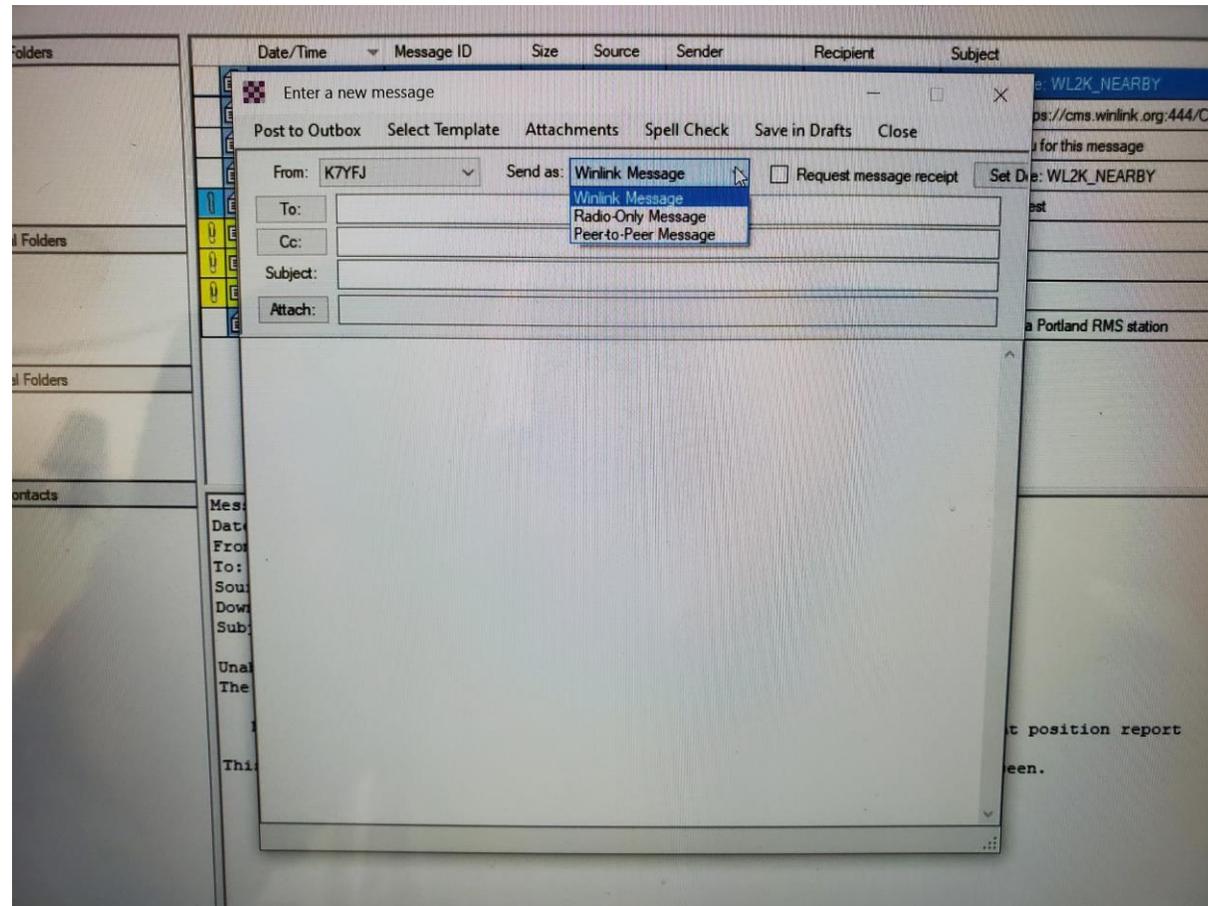
# WINLINK HAS THREE OPERATING MODES FOR SENDING MESSAGES BETWEEN STATIONS

- 1) CONVENTIONAL WINLINK MESSAGE
- 2) RADIO-ONLY MESSAGE
- 3) PEER-TO-PEER MESSAGE

# WINLINK EXPRESS MAIN SCREEN...OPEN UP A MESSAGE SCREEN



MESSAGE SCREEN IS OPEN, NOW SELECT HOW YOUR WINLINK MESSAGE WILL BE SENT...GO TO "SEND AS" AND SELECT IN THE DROP DOWN MENU



# CONVENTIONAL WINLINK MESSAGE

- USES AN INTERNET CONNECTION FOR “TELNET”, OR...
- MESSAGE CAN BE SENT BY “RADIO” TO AN RMS GATEWAY AND/OR PICKED UP VIA RADIO TO AN RMS GATEWAY...THE INTERNET IS USED TO DELIVER THE MESSAGE BETWEEN THE GATEWAYS
- “CLIENT” TO “RMS GATEWAY” TO “CMS”, THEN BACK TO AN “RMS”, AND PICKED UP BY A “CLIENT”
- MESSAGES THAT PASS THROUGH THE WINLINK SYSTEM ARE LIMITED TO 120KB...IF YOU TRY TO SEND > 120KB, THE MESSAGE WILL BE REJECTED

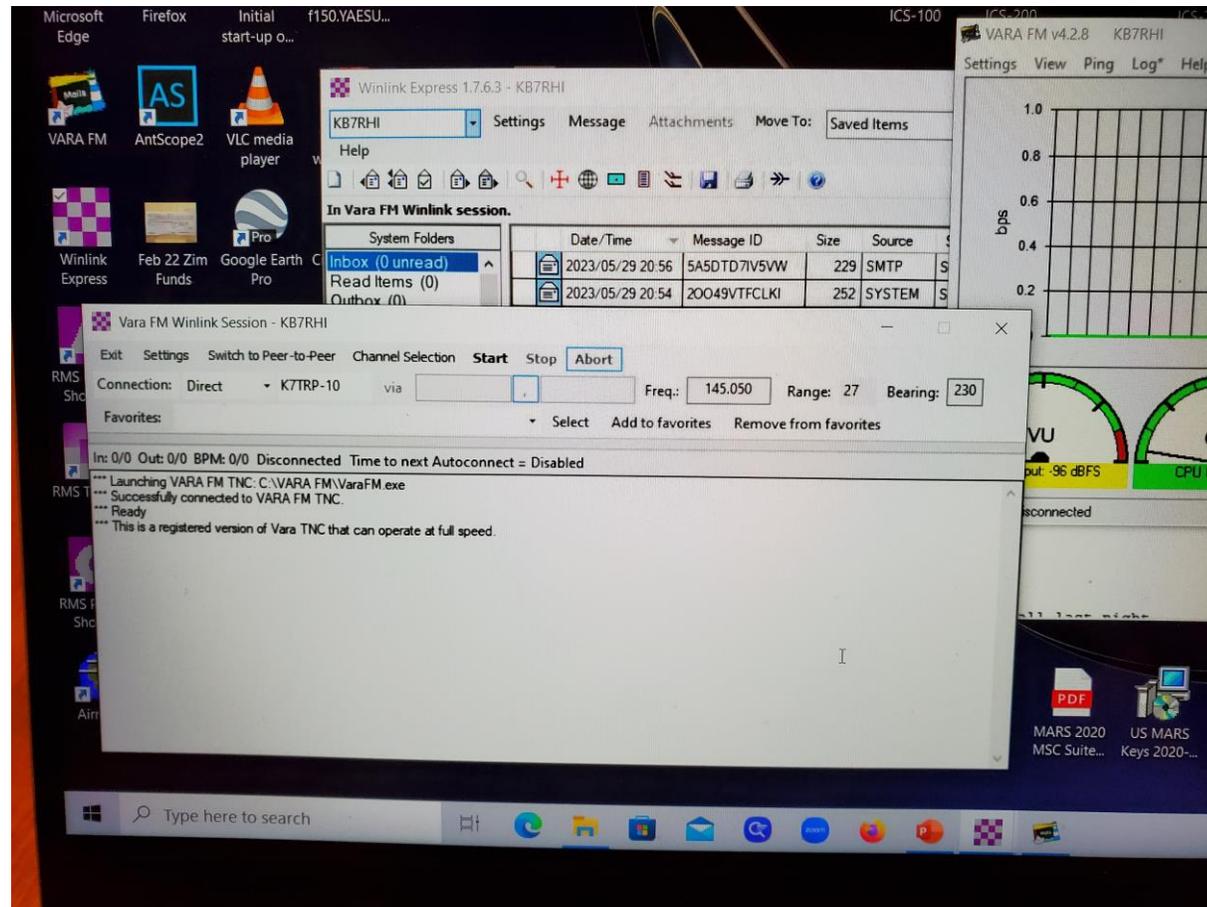
RADIO CONNECTION TO AN RMS GATEWAY...VARA FM SCREEN OPEN, PICK "CHANNEL SELECTION"  
...THEN PICK A STATION AND DOUBLE CLICK

The screenshot shows the Winlink Express software interface. The 'Vara FM Channel Selector' window is open, displaying a table of stations found within 185 miles of the user's grid square. The table has the following columns: Callsign, Frequency (MHz), Channel Width, Grid Square, Group, Distance (mi), and Bearing (Degrees). The first row is highlighted in blue.

Callsign	Frequency (MHz)	Channel Width	Grid Square	Group	Distance (mi)	Bearing (Degrees)
KF7LJH-12	432.550	Wide	CN85QN	PUBLIC	015	197
K7ENN-11	144.970	Wide	CN85RM	PUBLIC	017	180
KI7QIB-11	145.010	Wide	CN85QL	PUBLIC	021	192
KX7YT-10	144.990	Wide	CN85OM	PUBLIC	021	215
KD7REX-10	145.040	Narrow	CN85NM	PUBLIC	024	224
W7BVT-10	145.020	Wide	CN85OL	PUBLIC	024	211
K7TRP-10	145.050	Narrow	CN85MM	PUBLIC	027	230
N7OGM-10	145.050	Narrow	CN85MM	PUBLIC	027	230
K7CPU-10	441.075	Wide	CN85MM	PUBLIC	027	230
WC7EOC-10	144.980	Narrow	CN85MM	PUBLIC	027	230
N7TRY-2	430.550	Narrow	CN85NI	PUBLIC	034	210
K5VP-11	144.940	Wide	CN85MI	PUBLIC	035	215
W7OWO-10	145.080	Narrow	CN85LH	PUBLIC	040	217
W7OWO-10	441.000	Wide	CN85LH	PUBLIC	040	217
W7YAM-10	144.970	Narrow	CN85KC	PUBLIC	054	212
NA7Q-10	144.960	Narrow	CN86FE	PUBLIC	056	302
W7ODN-10	441.525	Wide	CN84MW	PUBLIC	061	200

The interface also shows a 'CPU Usage 5%' gauge and various control buttons like ACK, IDLE, NACK, BREAK, REQ, and QRT. The background shows the Winlink Express main window with a menu bar (File, Settings, Message, Attachments, Move To, Saved Items) and a status bar at the bottom.

VARA FM WINLINK SESSION IS OPEN AND READY TO SEND...THIS EXAMPLE, HAVE YOUR RADIO DIAL FREQ ON 145.050 AND PUSH “START” TO MAKE YOUR CONNECTION



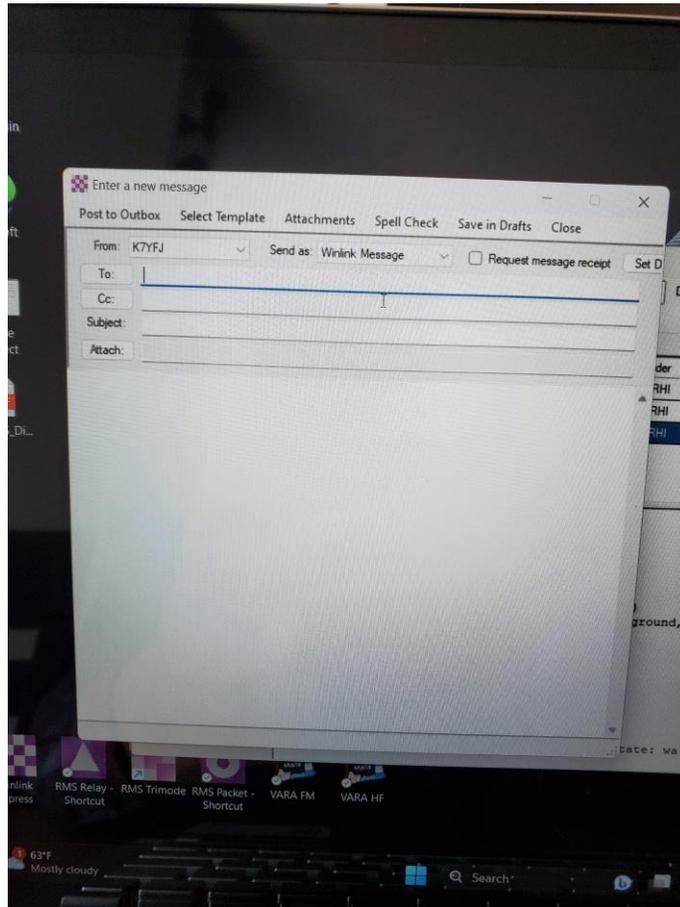
# HOW TO CREATE AND SEND “FIELD SITUATION REPORTS”

- AUXCOM, ARES, RACES, SHARES STATIONS, ETC CAN ALL SEND SITUATION REPORTS THAT CAN THEN BE COLLATED AND INFORMATION SHOWN ON A MAP
- IF THE MESSAGE IS SENT AS A CONVENTIONAL WINLINK MESSAGE, YOU CAN SELECT SEVERAL CALL SIGNS TO RECEIVE THE MESSAGE WITH ONE SENDING SESSION AND EACH STATION CAN PICK UP THEIR “COPY” OF THE MESSAGE AND COLLATE INFO IF THEY RECEIVED SEVERAL REPORTS?
- EACH CLIENT STATION FILLS OUT A “FIELD SITUATION REPORT” AND PLACES THE REPORT IN THEIR WINLINK “OUTBOX”
- HOW THE MESSAGE IS SENT IS UP TO THE CLIENT STATION...SEND IT VIA TELNET, VIA AN RMS GATEWAY, VIA P2P?

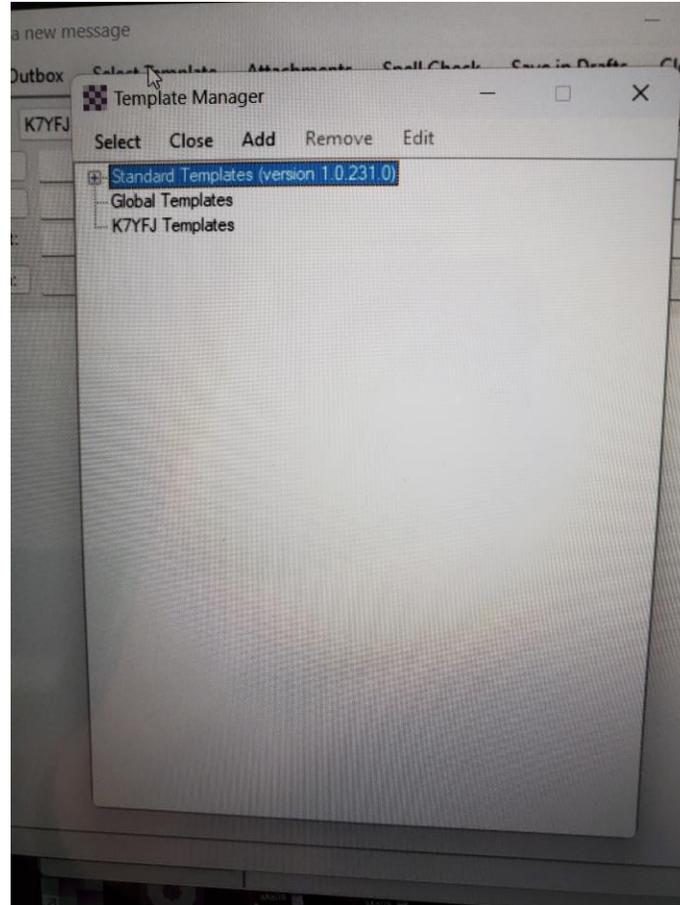
# FIELD SITUATION REPORTS

- IN THE FIELD SITUATION REPORT, YOU SELECT WHICH WINLINK CALL SIGNS WILL RECEIVE THE REPORT
- EACH REPORT WILL USE LOCATION INFORMATION AS PART OF THE REPORT
- YOU CAN USE A GPS DONGLE, GO TO THE MAIN SCREEN “SETTINGS”, GO TO “GPS/POSITION REPORTS”, PUT THE DONGLE INFO IN AND YOU SHOULD SEE GPS STATUS INFO TO SHOW IT IS DOWNLOADING GPS DATA
- THE DONGLE SHOULD SHOW WHEN IT HAS A LOCK, SUCH AS A FLASHING RED LIGHT?
- AS YOUR STATION MOVES, THE GRID SQUARE CAN BE CHANGED IN THE MAIN SCREEN “SETTINGS”, GO TO “WINLINK EXPRESS SETUP...”, THEN LOOK MID PAGE ON THE LEFT FOR “MY GRID SQUARE”, CHANGE TO THE GRID SQUARE YOU ARE IN (IT WILL PLACE YOUR STATION IN THE MIDDLE OF THE GRID SQUARE), THEN SELECT “UPDATE” AT THE BOTTOM OF THE SCREEN

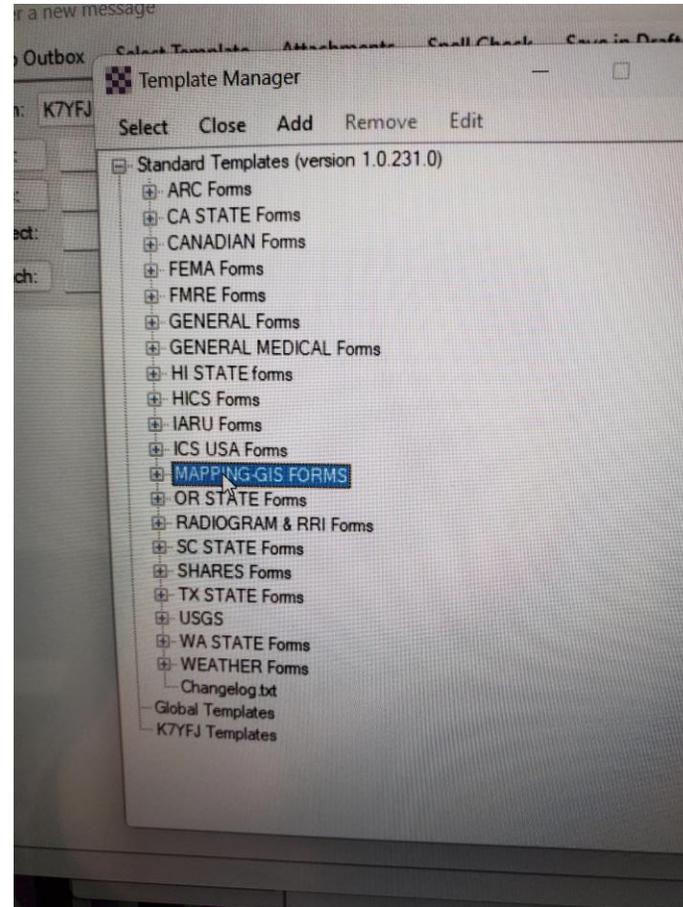
# HOW TO FIND YOUR “FIELD SITUATION REPORT” TEMPLATE...GO TO “SELECT TEMPLATE” ON YOUR NEW MESSAGE FORM



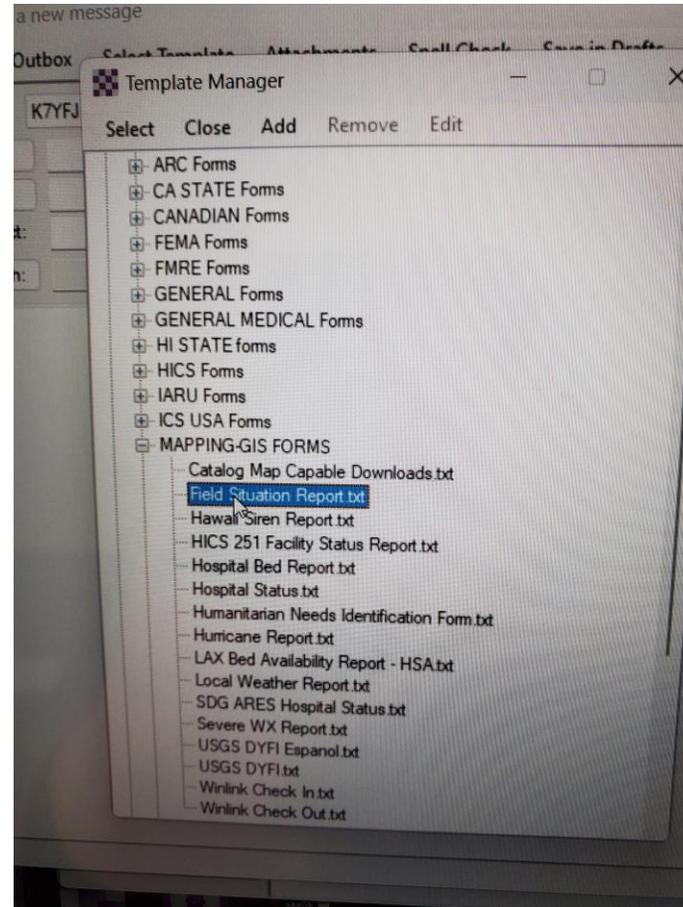
GO TO “STANDARD TEMPLATES (VERSION....)”



# GO TO “MAPPING GIS FORMS”



# GO TO “FIELD SITUATION REPORT”



FIELD SITUATION REPORT FORM OPENED UP, YOU CAN CHANGE THE NAME AT THE TOP BY CLICKING ON "SETUP" IN THE UPPER LEFT...THIS ONE SAYS, "CRESA CLARK COUNTY WA"

FIELD SITUATION REPORT  
CRESA CLARK COUNTY WA

**Setup** Click to add an agency or group name **Load Field Situation data** **Form info**

*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*

PRECEDENCE: R/ Routine DATE/TIME: 2023-05-31 21:07:21Z TASK #

FROM: K7YFJ

TO:

INFO (CC):

*Call signs or E-mails entered into the TO or INFO fields above, can be multiples separated by a semicolon ;*

1. Is there an EMERGENT/LIFE SAFETY Need  YES  NO

2. City County: State: Territory:

3. Latitude and longitude: LAT 46.187500 LON -123.875000 MGRS 10TDS3247615252 Grid CN86be

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.

LAT and LON are required to map this SpotRep. If entering manually use Decimal Degree format or from an attached GPS device.

FILL IN THE TOP SECTION OF THE FIELD SITUATION REPORT...EXAMPLE...GRID SQUARE IS DISPLAYED AND MUST BE CHANGED IN WINLINK SETTINGS, LAT/LONG AND MGRS CAN BE CHANGED IN THE FORM

FIELD SITUATION REPORT  
CRESA CLARK COUNTY WA

Setup [Click to add an agency or group name](#) [Load Field Situation data](#) [Form info](#)

*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.*

PRECEDENCE: R/ Routine  DATE/TIME: 2023-05-31 21:47:08Z TASK #

FROM: K7YFJ

TO: WINLINK CALL SIGN (.STATION YOU ARE SENDING THE REPORT TO)

INFO (CC):

*Call signs or E-mails entered into the TO or INFO fields above, can be multiples separated by a semicolon ;*

1. Is there an EMERGENT/LIFE SAFETY Need  YES  NO

2. City ANY TOWN  County: ANY COUNTY  State: WA  Territory: FEMAREGION 10

3. Latitude and longitude: LAT 45.781300  LON -122.520475  MGRS 10TER3727669860  Grid CN85rs

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.

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

# FIELD SITUATION REPORT UTILITY/ COMMUNICATION FUNCTIONING STATUS..."YES", "NO", "UNKNOWN"

Field Situation Report

File | C:/RMS%20Express/K7YFJ/Temp/Field%20Situation%20Report%20Initial.html

3. Latitude and longitude: LAT 45.781300 LON -122.520475 MGRS 10TER3727669860 Grid CN85rs

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.

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

4a. POTS landlines functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

4b. VOIP landlines functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

5a. Cell phone voice calls functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

5b. Cell phone texts functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

6. AM/FM Broadcast Stations functioning?  YES  NO  Unknown - N/A  
If no, provide broadcast station callsign/frequency that is off-the-air: \_\_\_\_\_

7a. OTA TV functioning?  YES  NO  Unknown - N/A  
If no, identify TV station: \_\_\_\_\_

7b. Satellite TV functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

7c. Cable TV functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

date: wa

64°F Mostly cloudy

BOTTOM PART OF THE FIELD SITUATION REPORT FORM...NOTE ITEM 10. INTERNET FUNCTIONING? "NO", PUT YOUR NAME IN THE "POC" LINE

Field Situation Report

File | C:/RMS%20Express/K7YFJ/Temp/Field%20Situation%20Report%20Initial.html

Public Water Works functioning:  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

8. Public Water Works functioning?  YES  NO  Unknown - N/A  
Comments: \_\_\_\_\_

9a. Commercial Power functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

9b. Commercial Power Stable?  YES  NO- Brown outs/blinking lights  Unknown - N/A  
If no, state provider: \_\_\_\_\_

9c. Natural Gas Supply functioning?  YES  NO  Unknown - N/A  
If no, state provider: \_\_\_\_\_

10. Internet functioning?  YES  NO  Unknown - N/A  
If no, indicate Fiber/Cable/Wireless/Satellite, state provider: \_\_\_\_\_

11a. NOAA weather radio functioning?  YES  NO  Unknown - N/A  
Identify NOAA Weather Radio Transmitter by frequency, call sign or location: \_\_\_\_\_

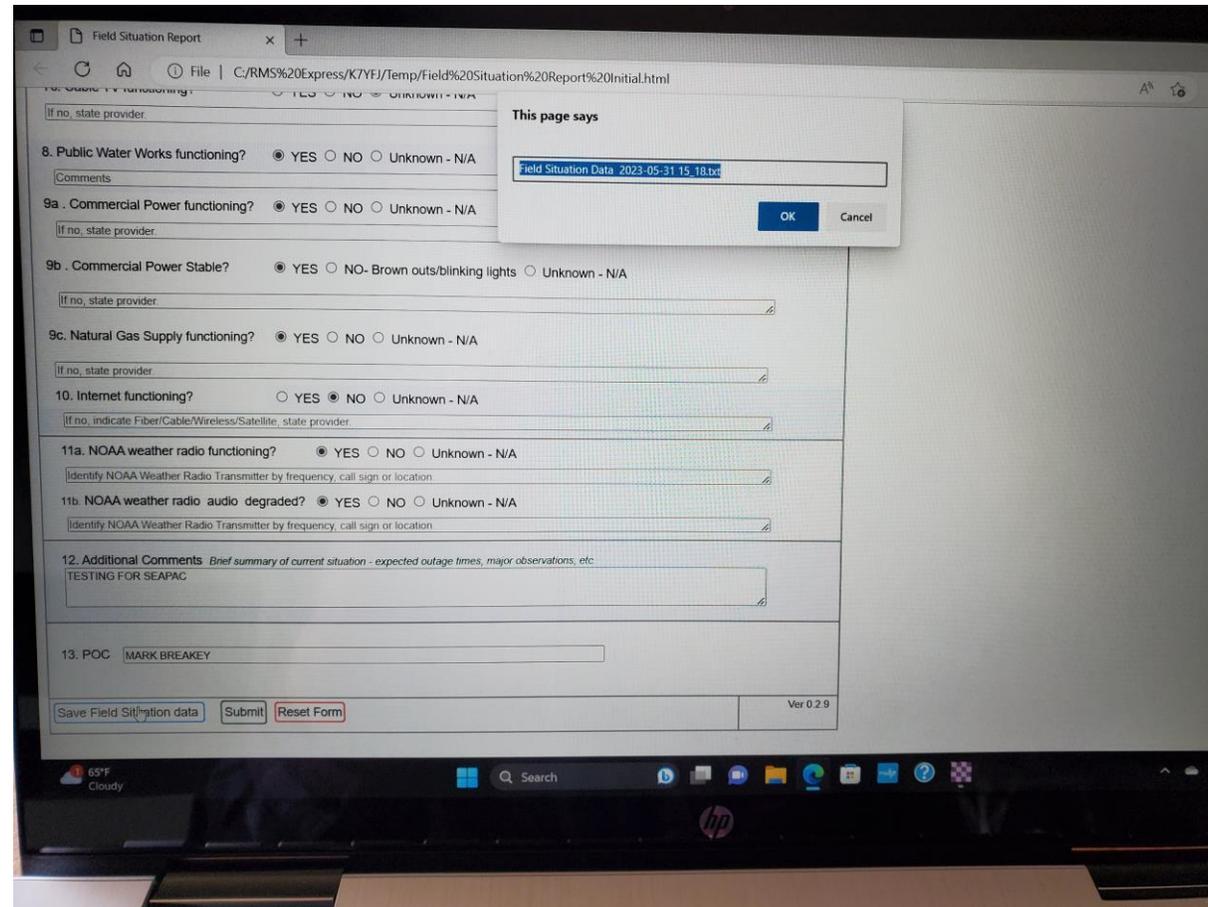
11b. NOAA weather radio audio degraded?  YES  NO  Unknown - N/A  
Identify NOAA Weather Radio Transmitter by frequency, call sign or location: \_\_\_\_\_

12. Additional Comments *Brief summary of current situation - expected outage times, major observations, etc.*  
TEST FOR SEAPAC  
\_\_\_\_\_

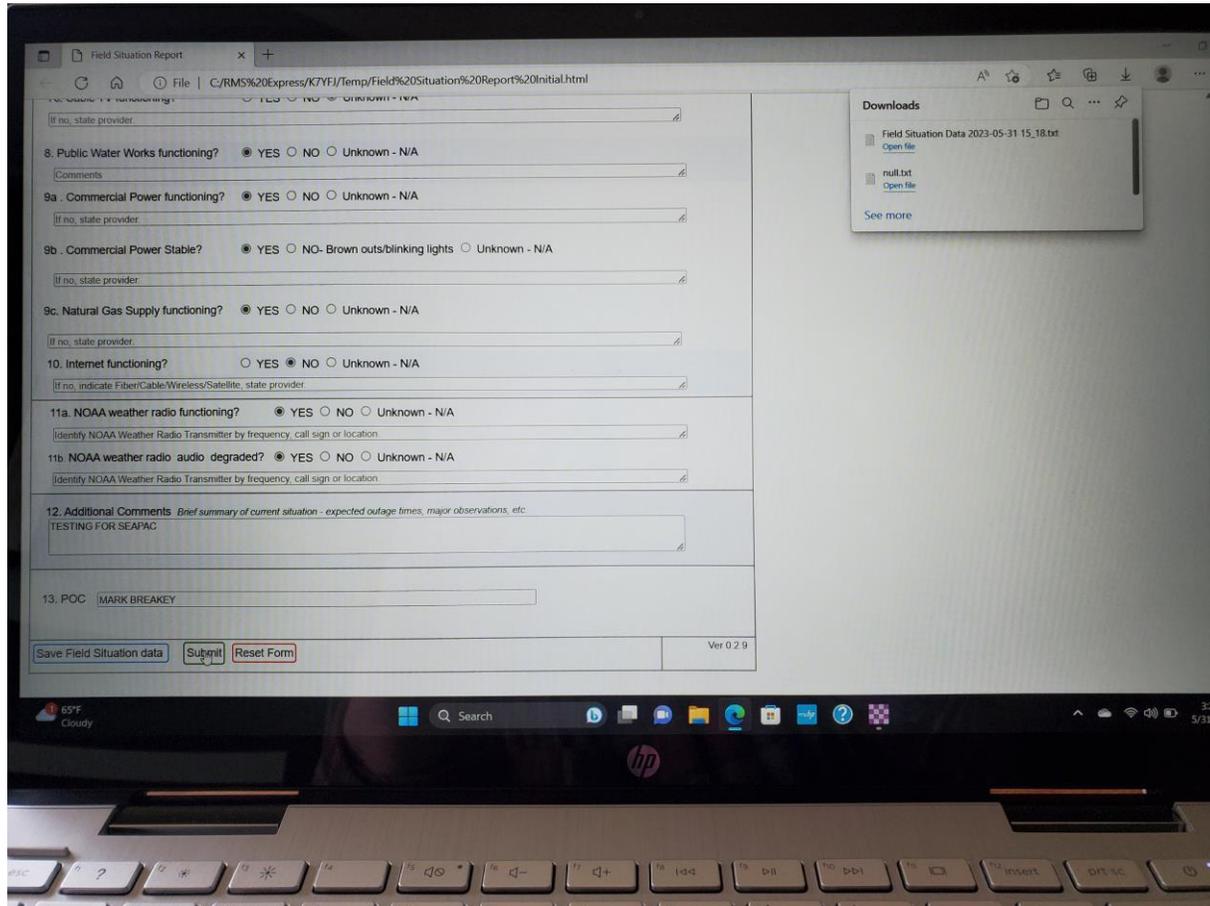
13. POC

Save Field Situation data Submit **Reset Form** Ver 0.2.9

NEXT STEP...CLICK ON “SAVE FIELD SITUATION DATA” IN THE LOWER LEFT OF THE SCREEN, THIS MESSAGE POPS UP...PUSH “OK”...THE POP UP WILL CHANGE TO A DIFFERENT MESSAGE



THE FIELD SITUATION DATA IS NOW SAVED AND YOU SEE THIS SCREEN, NEXT SELECT “SUBMIT”



YOU HIT THE “SUBMIT” BUTTON, YOU WILL NOW SEE THIS POP UP SCREEN...SELECT “OK”

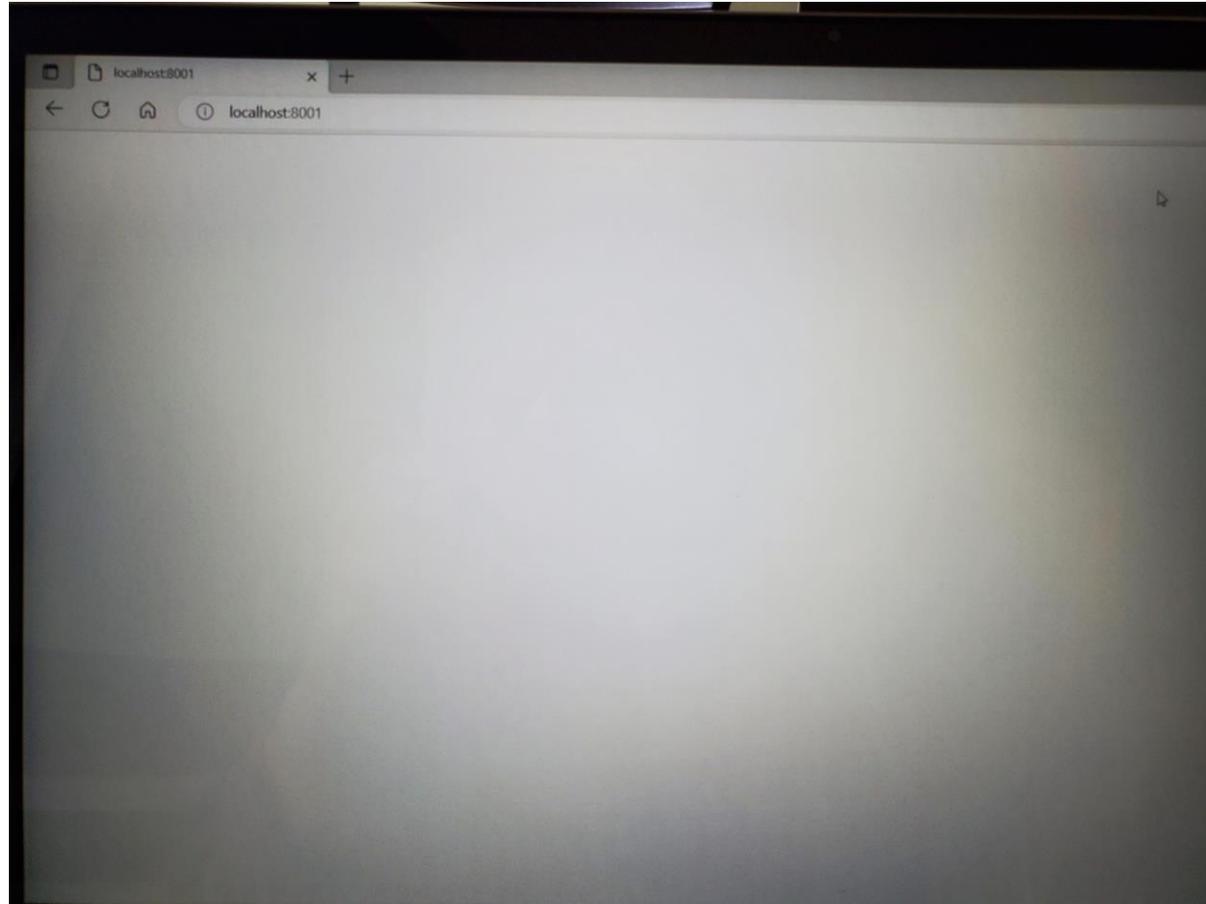
The screenshot shows a web browser window titled "Field Situation Report" with the address bar displaying "C:/RMS%20Express/K7YFJ/Temp/Field%20Situation%20Report%20Initial.html". The form contains several sections with radio button options and text input fields:

- Public Water Works functioning?  YES  NO  Unknown - N/A
- 9a. Commercial Power functioning?  YES  NO  Unknown - N/A
- 9b. Commercial Power Stable?  YES  NO- Brown outs/blinking lights  Unknown - N/A
- 9c. Natural Gas Supply functioning?  YES  NO  Unknown - N/A
- 10. Internet functioning?  YES  NO  Unknown - N/A
- 11a. NOAA weather radio functioning?  YES  NO  Unknown - N/A
- 11b. NOAA weather radio audio degraded?  YES  NO  Unknown - N/A
- 12. Additional Comments *Brief summary of current situation - expected outage times, major observations, etc.*  
TESTING FOR SEAPAC
- 13. POC: MARK BREAKEY

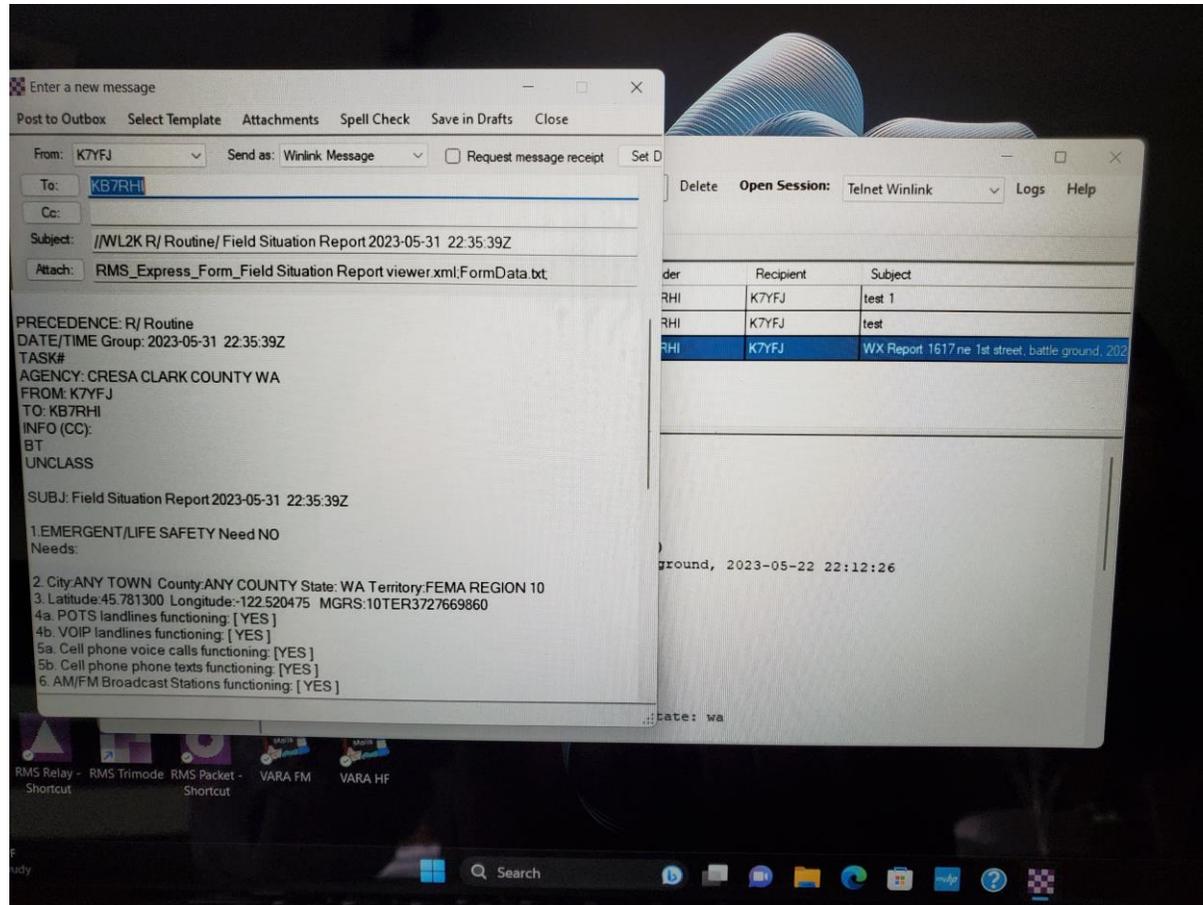
A pop-up dialog box titled "This page says" is overlaid on the form, containing the text: "To complete your form submission, click OK and close the open browser window. You will return to the new message window so you can post your message to the outbox." The dialog has "OK" and "Cancel" buttons.

At the bottom of the form, there are buttons for "Save Field Situation data", "Submit", and "Reset Form". The version number "Ver 0.2.9" is visible in the bottom right corner of the form area.

NEXT YOU WILL SEE THIS “LOCALHOST”  
SCREEN...JUST MINIMIZE THIS SCREEN TAB



YOU CREATED A FIELD SITUATION REPORT,  
CLICKED ON “SAVE FIELD SITUATION DATA” AND  
SUBMITTED THE INFORMATION TO YOUR  
MESSAGE SCREEN...NOW “POST TO OUTBOX”



# TWO WINLINK ACCOUNT HOLDERS CAN PRACTICE THIS BY DOING THE FOLLOWING

- LETS SAY FOR EXAMPLE THERE IS WINLINK ACCOUNT HOLDER **MIKE** AND ACCOUNT HOLDER **DEBBIE**
- **MIKE** CAN USE THE INTERNET TELNET METHOD TO SEND MULTIPLE FIELD SITUATION REPORTS TO **DEBBIE'S** CALL SIGN IN WINLINK
- ALL **MIKE** HAS TO DO IS GO INTO WINLINK EXPRESS SETTINGS AND CHANGE HIS LOCATION, JUST CHANGE THE GRID SQUARE WITH EACH NEW REPORT HE MAKES AND PUTS IN HIS OUTBOX
- HERE ARE THE STEPS:
- **MIKE** OPENS UP A "NEW MESSAGE", THEN "SELECT TEMPLATE", THEN OPENS UP "STANDARD TEMPLATES", THEN SELECTS AND OPENS UP "MAPPING-GIS FORMS", THEN SELECTS "FIELD SITUATION REPORT"

# NEXT STEP...FILL OUT THE FIELD SITUATION REPORT PER INSTRUCTIONS GIVEN

- **MIKE** FILLS OUT THE FIELD SITUATION REPORT MAKING SURE TO HAVE **DEBBIE'S** CALL SIGN IN THE "TO;" SECTION
- **MIKE** WILL THEN SELECT "SAVE" AND NEXT "SUBMIT" THE REPORT
- **MIKE** WILL THEN SEE THE NEW MESSAGE HE HAS COMPOSED, BUT STILL NEEDS TO NEXT "POST TO THE OUTBOX"
- THIS FIRST "FIELD SITUATION REPORT" IS NOW IN HIS WINLINK "**OUTBOX**" READY TO BE SENT, **MIKE** IS NOW READY TO FILL OUT MORE REPORTS, BUT HE NEEDS TO CHANGE HIS LOCATION WITH EACH NEW PRACTICE REPORT

# CHANGING LOCATION FOR EACH NEW PRACTICE REPORT

- **MIKE** GOES TO THE WINLINK EXPRESS MAIN OPENING PAGE AND CLICKS ON THE “SETTINGS” TAB AT THE TOP OF THE PAGE, THEN CLICKS ON “WINLINK EXPRESS SET UP”, FROM THERE HE LOOKS DOWN THE LEFT SIDE OF PAGE AND SEES “**My Grid Square**”
- HERE HE CHANGES THE LOCATION INFORMATION FOR THAT “SESSION” AND PUTS IN A **NEW GRID SQUARE** FOR THE NEXT PRACTICE LOCATION, THEN AT THE BOTTOM OF PAGE, CLICKS ON “**UPDATE**”
- NOW JUST FILL OUT SEVERAL REPORTS AND MAKE SURE TO PUT THEM IN THE “OUTBOX” OF WINLINK EXPRESS BY DOING THE “POST TO OUTBOX” STEP
- NOW JUST SEND YOUR REPORTS USING “TELNET”, GO TO “OPEN SESSION”, USE THE DROP DOWN MENU TO SELECT “TELNET WINLINK”, THEN CLICK ON “START”, **MIKE** HAS NOW SENT MULTIPLE REPORTS TO **DEBBIE’S** CALL SIGN

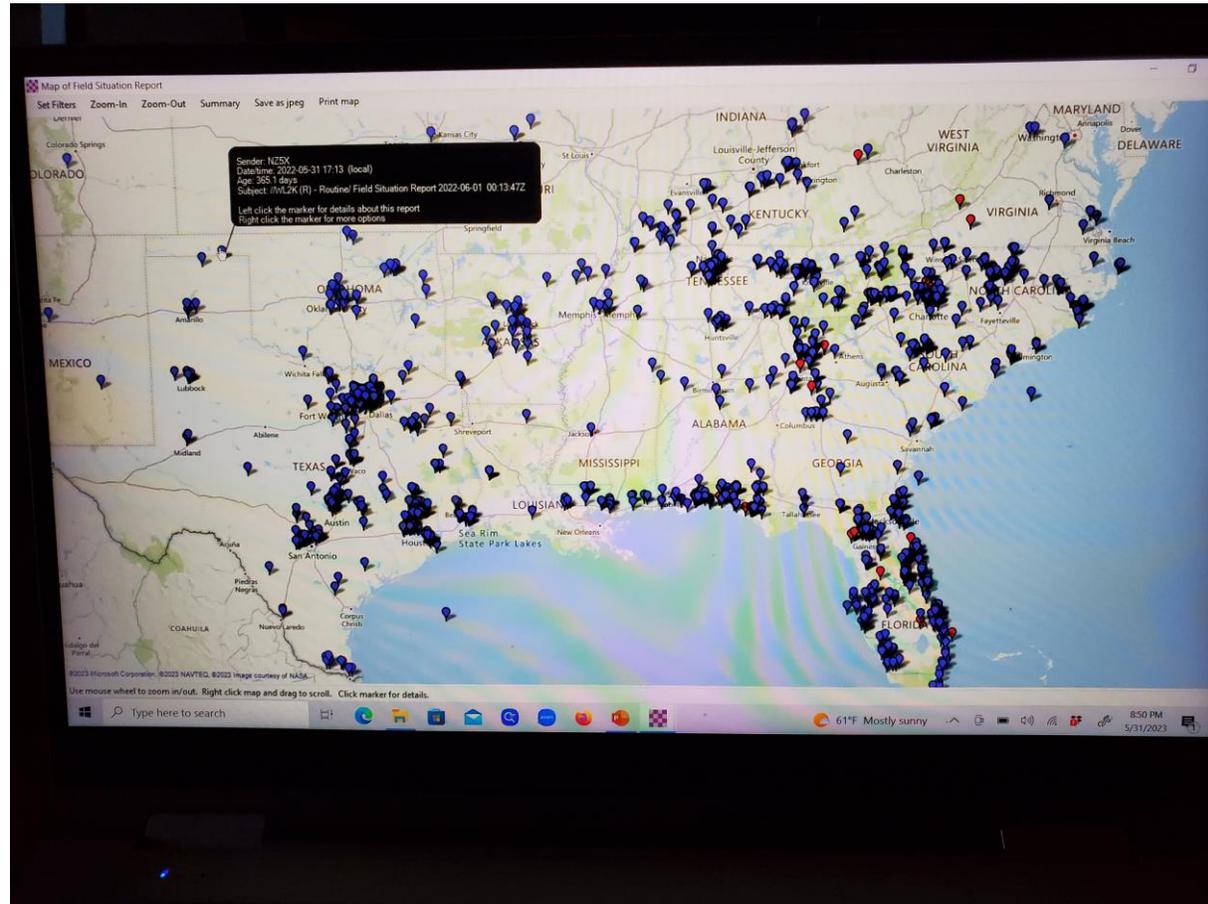
# FIELD SITUATION REPORT PRACTICE

- AS **MIKE** MAKES A SITUATION REPORT, HE WILL SELECT WHICH ITEM IS A “YES”, “NO”, OR “UNKNOWN”
- PLAN TO SEND SOME REPORTS THAT ALL HAVE THE SAME MISSING SERVICE SUCH AS “INTERNET” = “NO”
- LOOK AT THE NEXT **FOUR PPT SLIDES** TO SEE YOUR SENDING THE MESSAGE CHOICES, AND HOW THE MAPPING INFORMATION LOOKS LIKE FROM A **FEMA DRILL...**(AFTER THE NEXT 4 SLIDES I WILL SHARE MORE STEPS FOR **MIKE** AND **DEBBIE** TO TAKE)
- YOU WILL SEE **ALL THE STATIONS** THAT SENT IN A REPORT TO FEMA ON ONE SLIDE
- WITH THE MAPPING PROGRAM, YOU CAN THEN FILTER OUT JUST THE INFORMATION YOU ARE LOOKING FOR, ANOTHER SLIDE YOU WILL **SHOW ONLY** THOSE STATIONS THAT REPORTED IN THEIR FIELD REPORT THEY HAD **NO INTERNET**

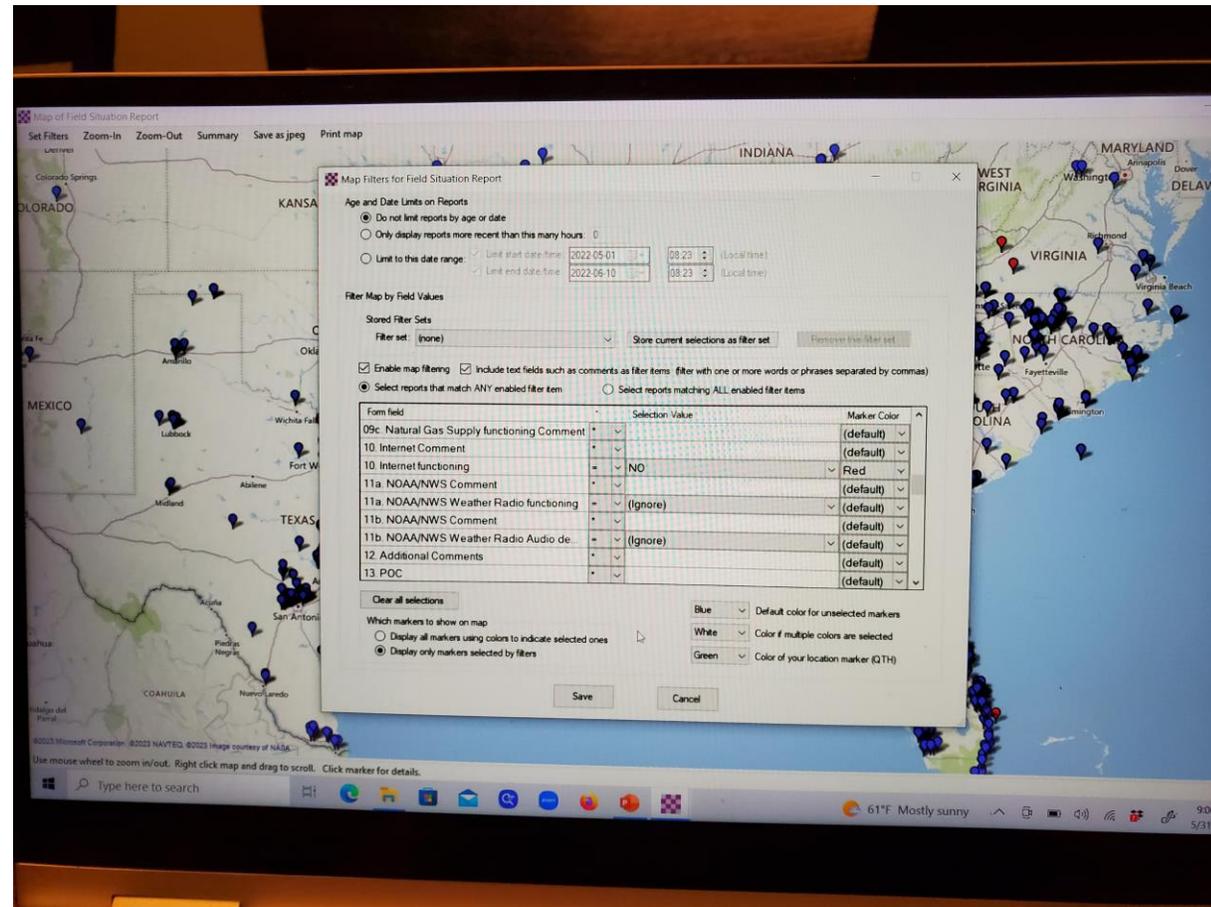
# YOUR FIELD SITUATION REPORT IS SITTING IN YOUR WINLINK OUTBOX...NOW SELECT A METHOD OF SENDING THE INFO

- YOU CAN SEND VIA TELNET
- YOU CAN SEND VIA RADIO TO AN RMS
- YOU CAN SEND VIA A DIGI, TO AN RMS
- YOU CAN SEND AS A P2P MESSAGE
- YOU CAN SEND VIA A DIGI, TO ANOTHER P2P STATION
- YOU HAVE SEVERAL CHOICES, WHICH ONE IS THE BEST? YOU DECIDE

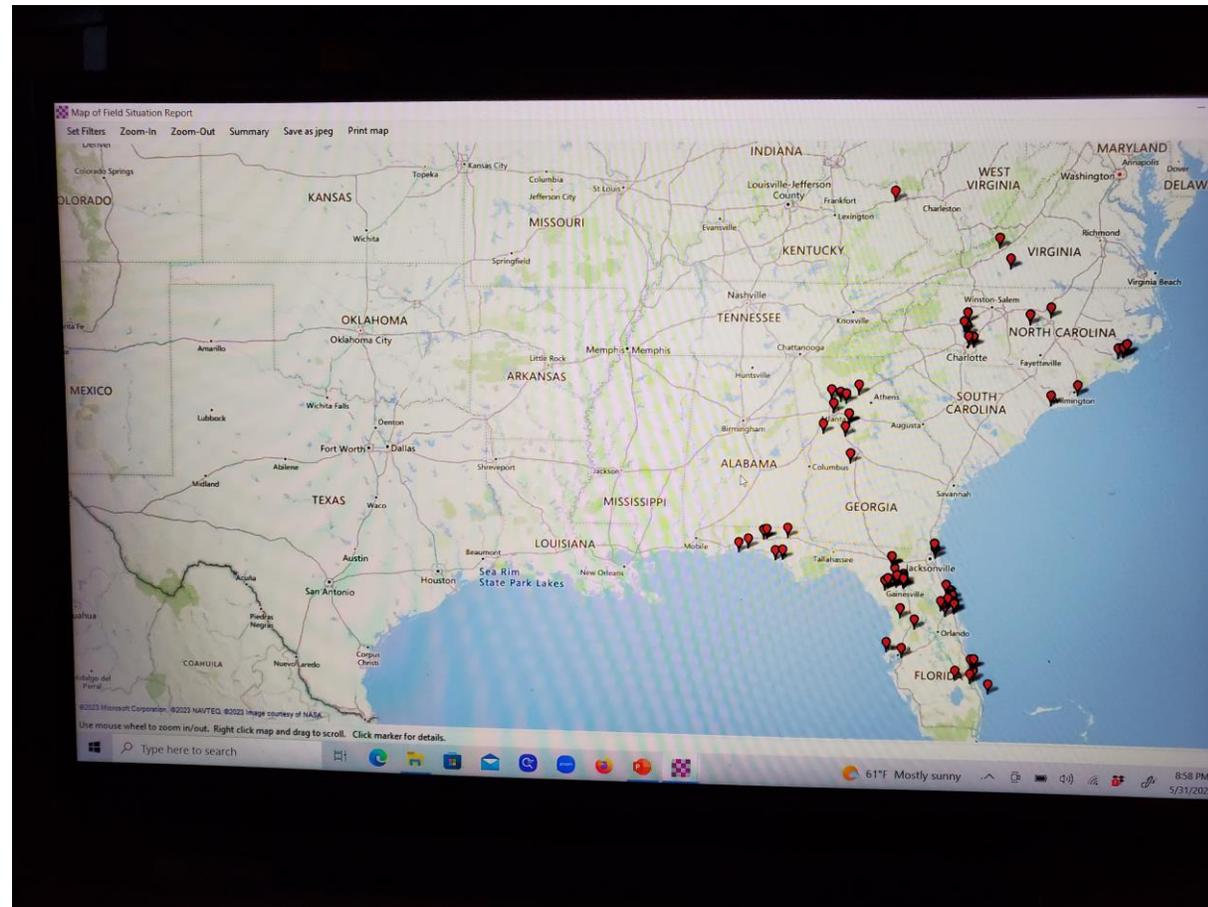
# FEMA EXERCISE DATA FROM TWO EXERCISES IN THE SOUTH EASTERN US...THIS VIEW IS ALL STATIONS THAT CHECKED IN FOR THE EXERCISES



THE WINLINK PROGRAM AGGREGATION MAP HAS FILTERS...WE NEXT WANT TO SEE JUST THE STATIONS THAT HAVE REPORTED “NO INTERNET”



IF THE EXERCISE WAS LOOKING FOR EFFECTS OF A US CYBER ATTACK...HERE ARE THE STATIONS THAT REPORTED “NO INTERNET”



# TIME FOR **DEBBIE** TO SEE ALL THE FIELD SITUATION REPORTS THAT **MIKE** SENT

- **DEBBIE** FIRST PICKS UP ALL THE MESSAGES **MIKE** SENT BY DOING ONE TELNET SESSION, SHE WILL NOW SEE ALL THE MESSAGES POPULATE IN HER “INBOX”
- **DEBBIE** HAS TWO MAPPING OPTIONS, FIRST, LETS LOOK AT A QUICK WAY TO SEE A SINGLE LOCATION REPORT ON A MAP FIRST
- EACH MESSAGE **MIKE** SENT HAS GIS LOCATION INFORMATION, **DEBBIE** CAN GO TO HER INBOX, SINGLE CLICK ON ONE MESSAGE, THEN RIGHT CLICK TO SEE OPTIONS, SHE THEN CLICKS ON “SHOW MAP OF MESSAGE ORIGIN”
- A MAP WILL POP UP SHOWING HER LOCATION AND THE LOCATION OF MESSAGE JUST SENT TO HER, SHE CAN RIGHT CLICK ON MAP TO MOVE THE MAP AROUND
- **DEBBIE** DOES NOT NEED TO OPEN UP EVERY MESSAGE TO NEXT SEE ALL THE FIELD SITUATION REPORTS ON A MAP...OPTION TWO, SEE ALL THE STATIONS

DEBBIE NOW WANTS TO SEE ALL THE FIELD SITUATION REPORTS ON A SINGLE MAP, CLICK ON THE “WORLD MAPPING GLOBE” FIRST

The screenshot shows the Winlink Express 1.7.6.4 - KB7RHI interface. The top menu bar includes 'KB7RHI', 'Settings', 'Message', 'Attachments', 'Move To: Saved Items', 'Delete', and 'Open Session:'. Below the menu is a toolbar with various icons, including a globe icon. The main window displays a message list and details for a selected message.

**No active session.**

	Date/Time	Message ID	Size	Source	Se
	2023/05/31 22:57	HTMBMWBT6Y8	3315	K7YFJ	K7Y
	2023/05/31 20:50	HZ79B0B4KWC7	3387	K7YFJ	K7Y
	2023/05/31 20:46	5MMM2CT6O147	3378	K7YFJ	K7Y
	2023/05/31 20:38	1EY0HYK81WS3	3342	K7YFJ	K7Y
	2023/05/31 20:30	K6WVUZR8TLZD	3326	K7YFJ	K7Y
	2023/05/31 2...	SGMDLUCWC...	3331	K7YFJ	K7Y
	2023/05/31 2...	IYH5B73N78GX	3341	K7YFJ	K7Y

Message ID: HTMBMWBT6Y8  
Date: 2023/05/31 22:57  
From: K7YFJ  
To: KB7RHI  
Source: K7YFJ  
P2P: True  
Location: 45.781300N, 122.520475W (GPS)  
Subject: //WL2K R/ Routine/ Field Situation Repo

PRECEDENCE: R/ Routine  
DATE/TIME Group: 2023-05-31 22:55:23Z  
TASK#  
AGENCY: CRESA CLARK COUNTY WA  
FROM: K7YFJ

NEXT YOU WILL SEE THIS “Maps and CSV/KML Files for Forms” WINDOW, GO TO THE DROP DOWN MENU NEXT TO “Select from:” AND SELECT “Field Situation Report”

2023/05/31 20:50	HZ7980B4KWC7	3387	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:49:31Z
2023/05/31 20:46	5MMM2CT60I47	3378	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:44:50Z
2023/05/31 20:38	1EY0HYK81WS3	3342	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:35:58Z
2023/05/31 20:30	K6WVUJ					tion Report 2023-05-31 20:28:10Z
2023/05/31 2...	SGMDL					Situation Report 2023-05-31 2
2023/05/31 2...	IYH5B7					Situation Report 2023-05-31 2

age ID: HTMBMWBE16Y  
: 2023/05/31 22:57  
: K7YFJ  
KB7RHI  
ce: K7YFJ  
True  
tion: 45.781300N, 122.520475W  
ect: //WL2K R/ Routine/ Field Situation Report 2023-05-31 22:55:23Z

EDENCE: R/ Routine  
E/TIME Group: 2023-05-31 22:55:23Z  
K#  
NCY: CRESA CLARK COUNTY  
: K7YFJ  
KB7RHI  
O (CC):  
CLASS

J: Field Situation Report 2023-05-31 22:55:23Z

EMERGENT/LIFE SAFETY Need NO  
eds:

City:BATTLE GROUND County:CLARK State: WA Territory:FEMA REGION 10  
Latitude:45.781300 Longitude:-122.520475 MGRS:10TER3727669860  
POTS landlines functioning: [ YES ]  
VOIP landlines functioning: [ YES ]  
Cell phone voice calls functioning: [NO ]  
Cell phone text messages functioning: [NO ]

Maps and CSV/KML Files for Forms

Select form:

Number of stored reports: 8

Map provider:

Form Report Management

Delete reports older than this many days:

Export and Import Form Data

NEXT TO “Map provider” IN THE DROP DOWN WINDOW, I LIKE TO SELECT “Google Terrain” IN THE DROP DOWN WINDOW, THIS WILL LOAD THE MAP IN YOUR COMPUTER

2023/05/31 20:50	HZ7980B4KWC7	3387	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:49:31Z
2023/05/31 20:46	5MMM2CT60147	3378	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:44:50Z
2023/05/31 20:38	1EY0HYK81WS3	3342	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:35:58Z
2023/05/31 20:30	K6WVUZ					tion Report 2023-05-31 20:28:10Z
2023/05/31 20:28	SGMDL					Situation Report 2023-05-31 20:28:10Z
2023/05/31 20:27	IYH5B7					Situation Report 2023-05-31 20:27:00Z

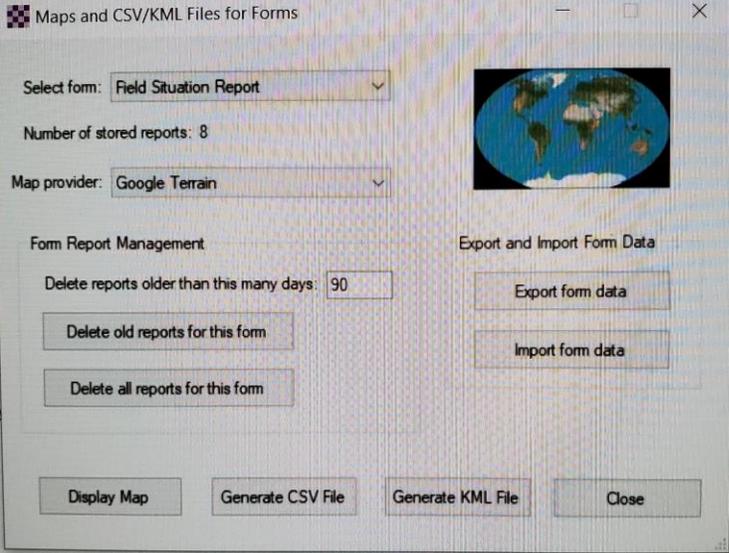
age ID: H1MBMW6T6Y8  
: 2023/05/31 22:57  
: K7YFJ  
KB7RHI  
ce: K7YFJ  
True  
ation: 45.781300N, 122.520475W  
ect: //WL2K R/ Routine/ Field Situation Report 2023-05-31 22:55:23Z

EDENCE: R/ Routine  
E/TIME Group: 2023-05-31  
K#  
NCY: CRESA CLARK COUNTY  
M: K7YFJ  
KB7RHI  
O (CC):  
LASS

J: Field Situation Report 2023-05-31 22:55:23Z

EMERGENCY/LIFE SAFETY Need NO  
ds:

City:BATTLE GROUND County:CLARK State: WA Territory:FEMA REGION 10  
Latitude:45.781300 Longitude:-122.520475 MGRS:10TER3727669860  
POTS landlines functioning: [ YES ]  
VOIP landlines functioning: [ YES ]  
Cell phone voice calls functioning: [NO ]  
Cell phone data calls functioning: [NO ]



# NEXT STEP IS TO CLICK ON THE “Display Map” AT THE LOWER LEFT

2023/05/31 20:50	HZ7980B4KWC7	3387	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:49:31Z
2023/05/31 20:46	5MMM2CT60I47	3378	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:44:50Z
2023/05/31 20:38	1EY0HYK81WS3	3342	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Situation Report 2023-05-31 20:35:58Z
2023/05/31 20:30	K6WVUZ					
2023/05/31 2...	SGMDL					
2023/05/31 2...	IYH5B7					

Page ID: HTMBMWBT6Y  
: 2023/05/31 22:57  
: K7YFJ  
KB7RHI  
ce: K7YFJ  
True  
tion: 45.781300N, 122.520475W  
ect: //WL2K R/ Routine/ Field Situation Report 2023-05-31 22:55:23Z

EDENCE: R/ Routine  
E/TIME Group: 2023-05-31  
K#  
NCY: CRESA CLARK COUNTY  
M: K7YFJ  
KB7RHI  
O (CC):  
LASS

J: Field Situation Report 2023-05-31 22:55:23Z

MERGENT/LIFE SAFETY Need NO  
ds:

City:BATTLE GROUND County:CLARK State: WA Territory:FEMA REGION 10  
Latitude:45.781300 Longitude:-122.520475 MGRS:10TER3727669860  
- POTS landlines functioning: [ YES ]  
- VOIP landlines functioning: [ YES ]  
- Cell phone voice calls functioning: [NO ]  
- Cell phone text messages functioning: [NO ]

Maps and CSV/KML Files for Forms

Select form:

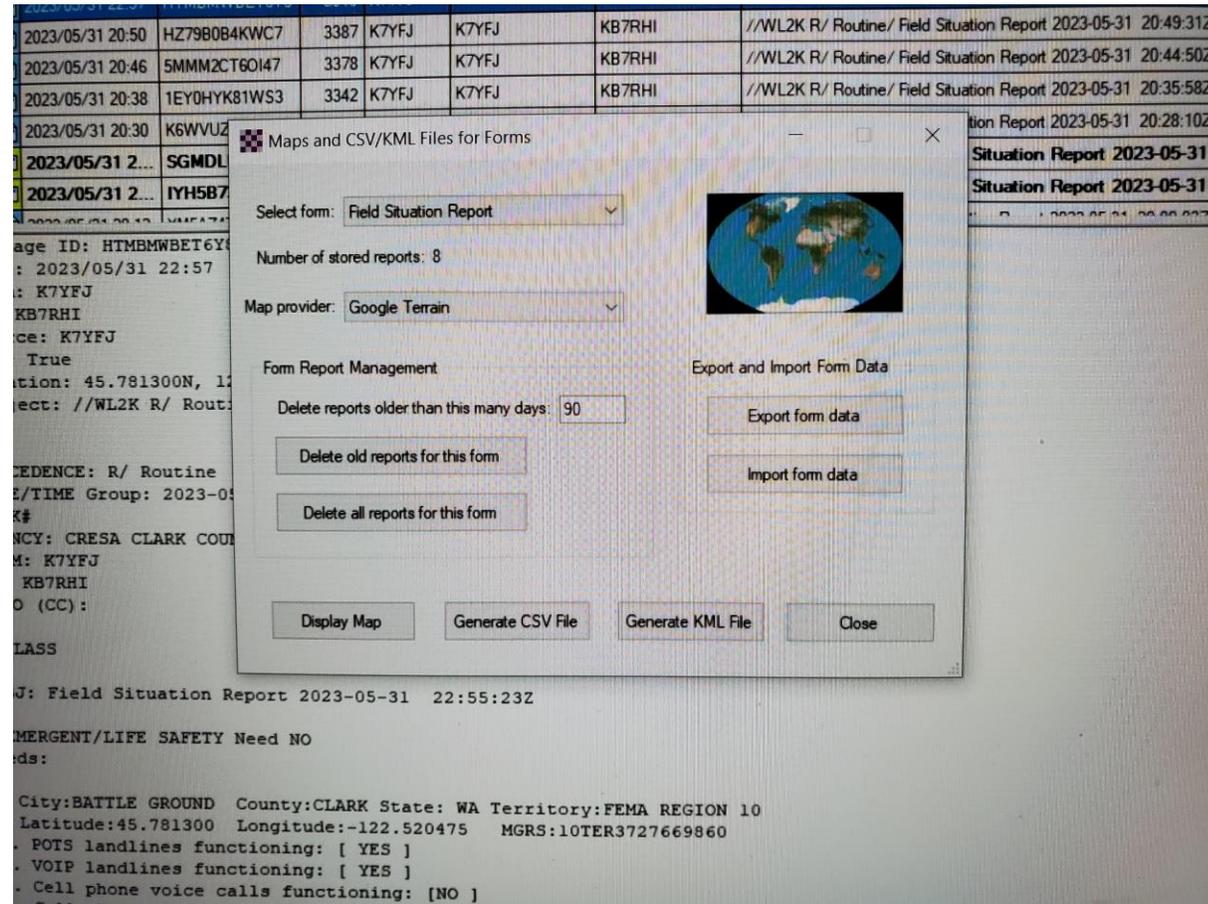
Number of stored reports: 8

Map provider:

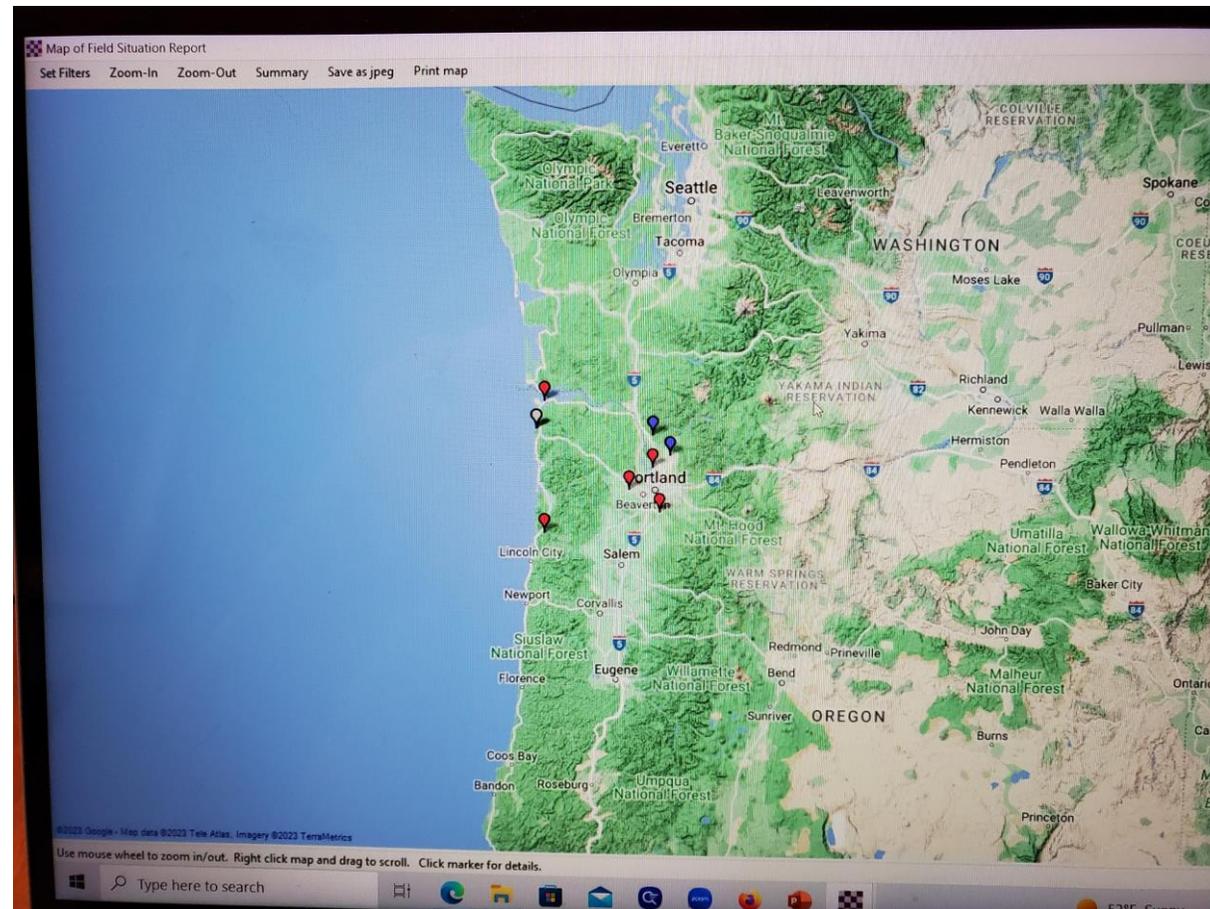
Form Report Management

Delete reports older than this many days:

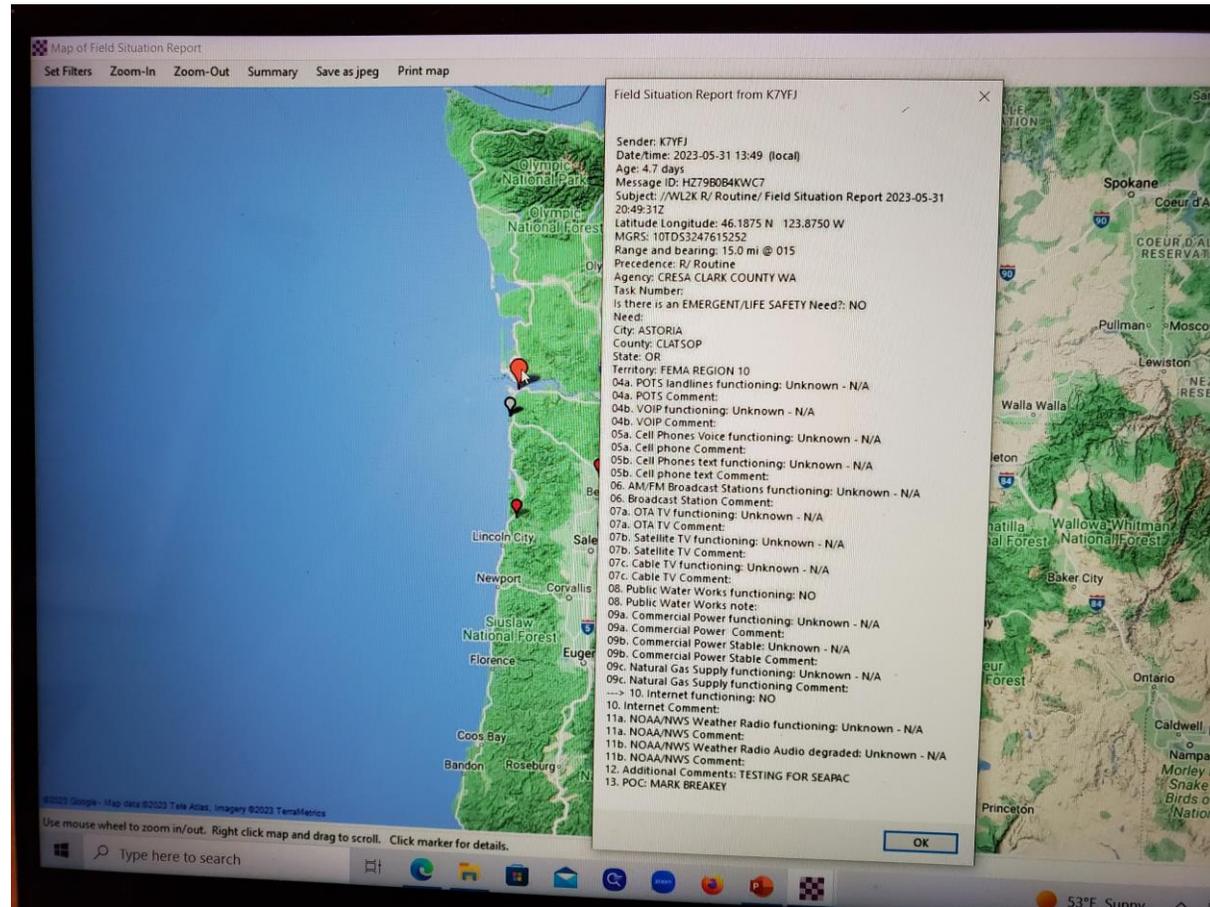
Export and Import Form Data



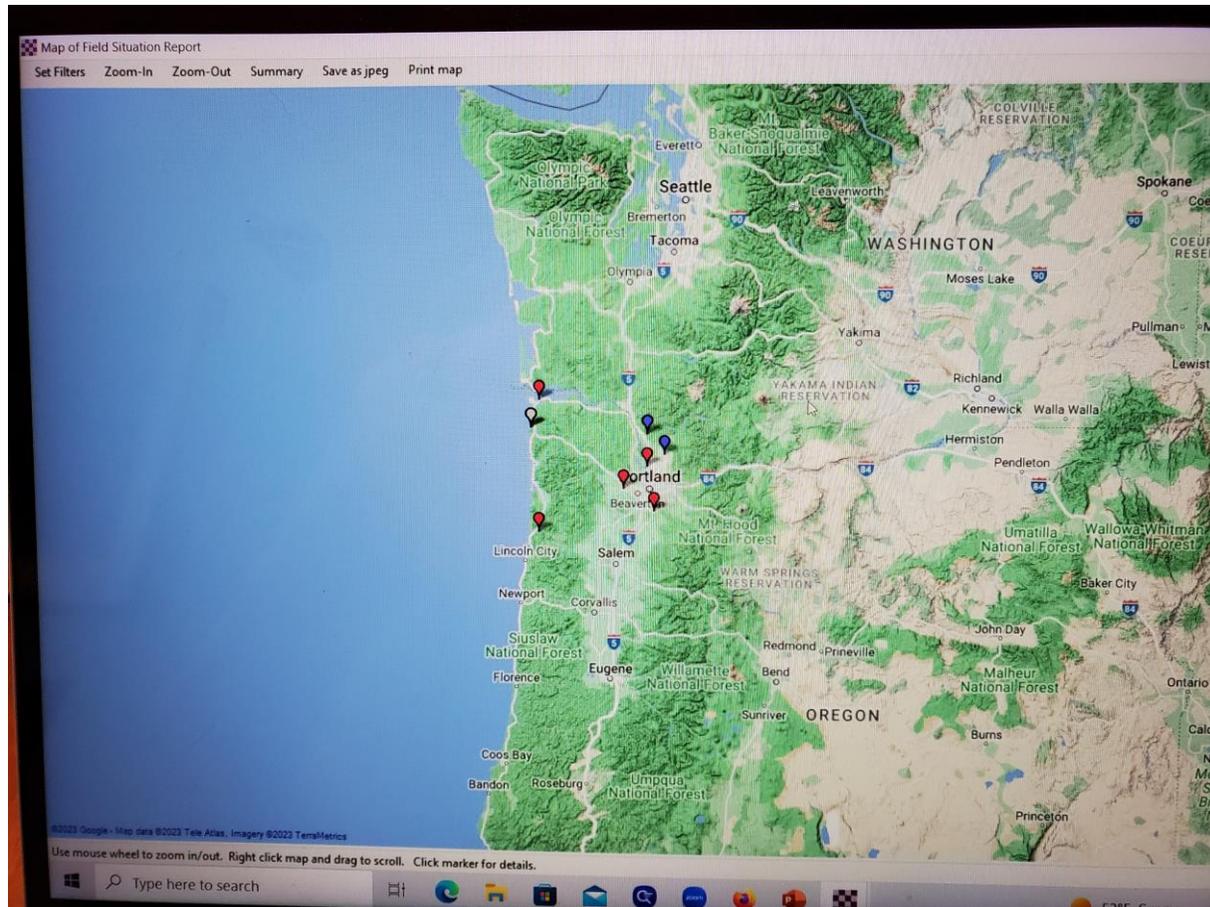
DEBBIE WILL NOW SEE A VIEW THAT LOOKS SIMILAR TO THIS...HER STATION AND ALL THE STATION LOCATIONS THAT MIKE SENT TO HER CALL SIGN ON A MAP



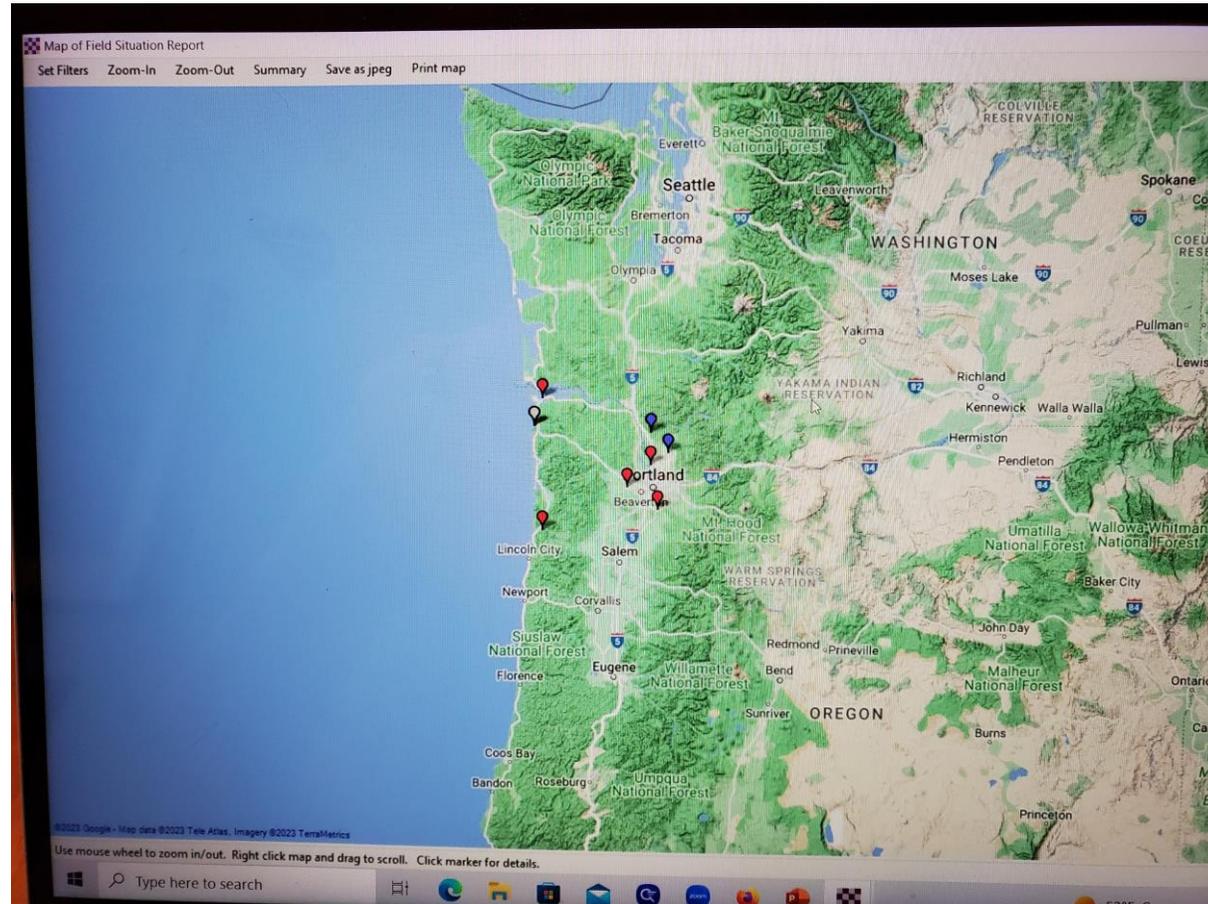
# DEBBIE CAN NOW LEFT CLICK ON ANY STATION LOCATION MIKE SENT AND WILL THEN SEE THAT STATION'S FIELD SITUATION REPORT



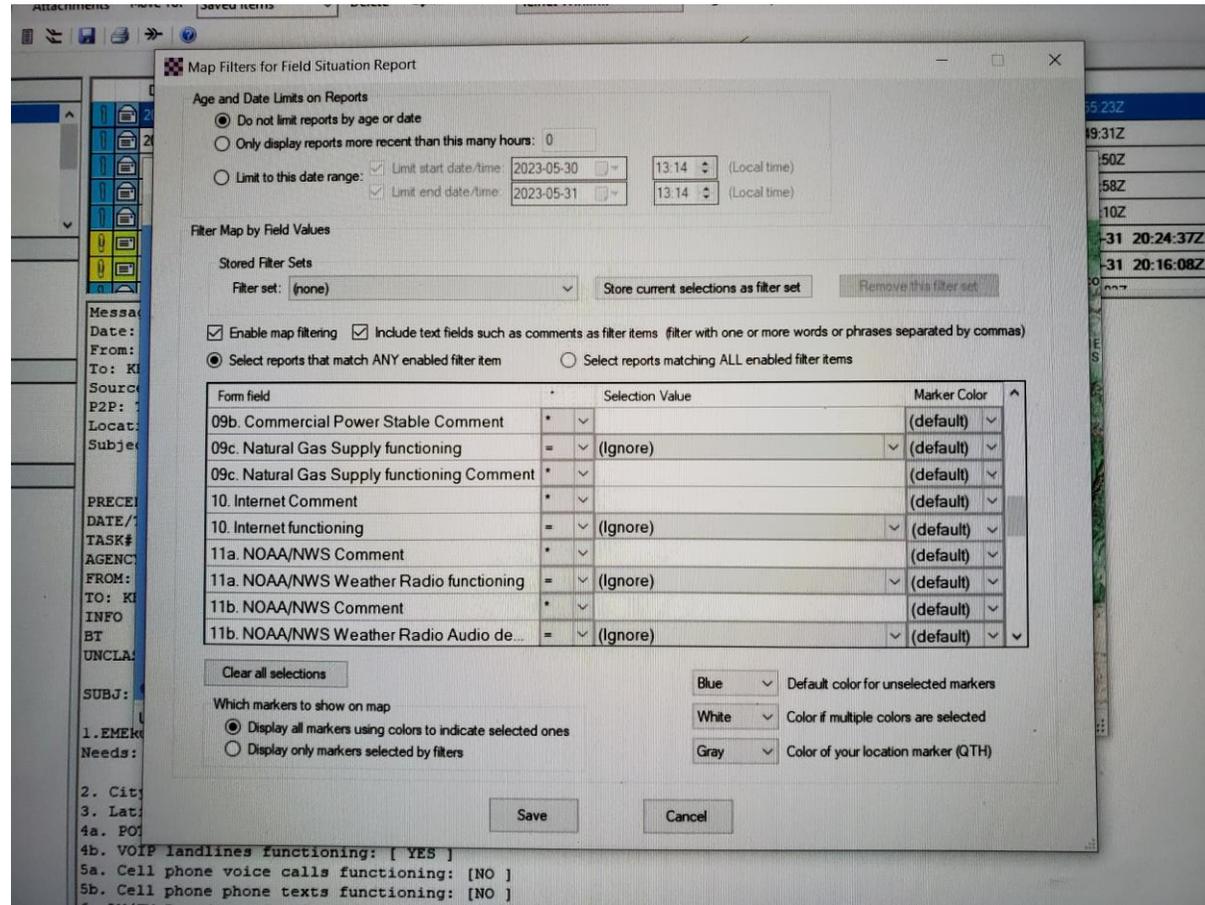
IF **DEBBIE** WANTS TO MOVE THE MAP AROUND, SHE WILL RIGHT CLICK AND DRAG THE MAP, OR SHE CAN ZOOM-IN OR ZOOM-OUT FROM THE SELECTIONS AT THE TOP OF THE MAP



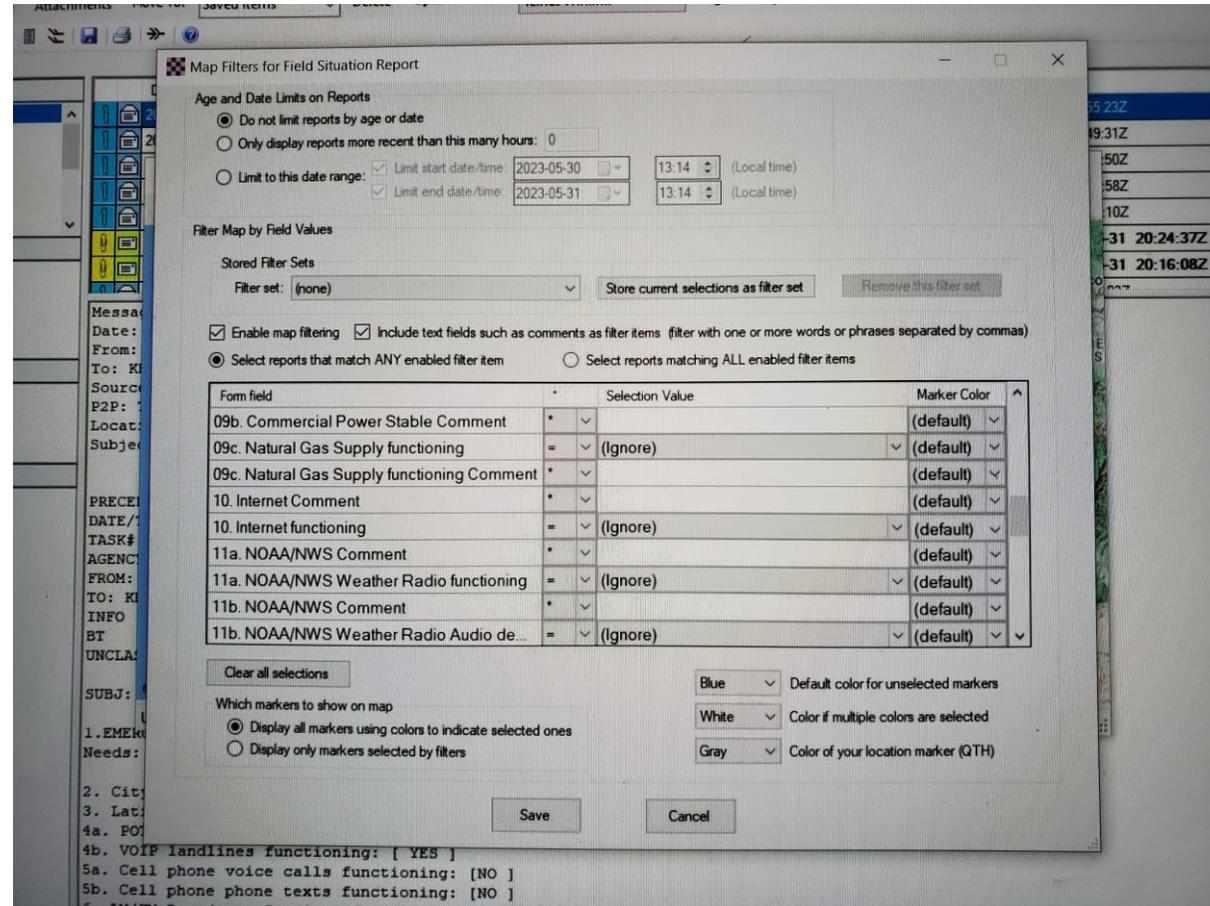
LETS SAY **MIKE** SENT 10 FIELD SITUATION REPORTS TO **DEBBIE** AND 5 OF THEM SHOWED “NO INTERNET” ...CLICK ON “Set Filters” IN THE UPPER LEFT



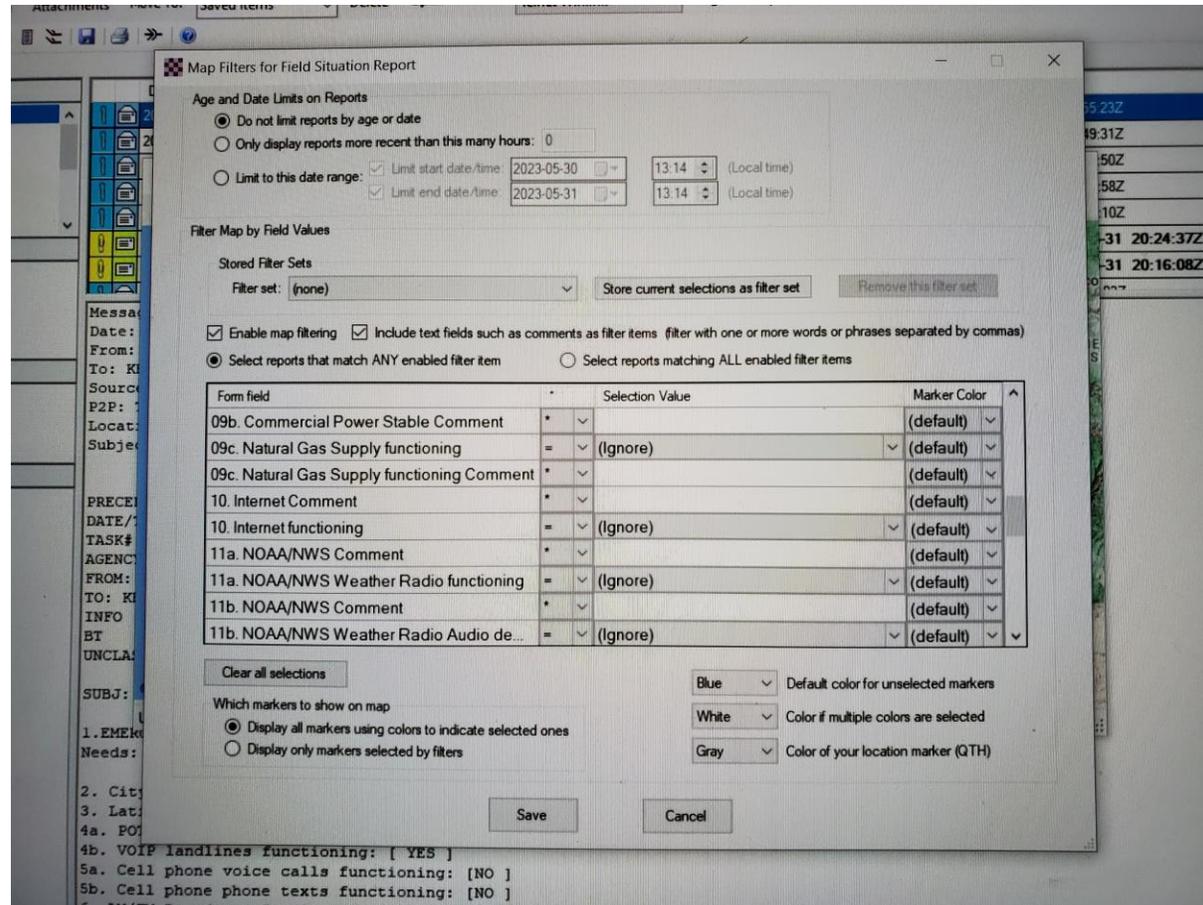
# HERE IS THE PAGE CALLED “Map Filters For Field Situation Report”, A VERY POWERFUL TOOL...LET’S LOOK AT SOME FEATURES



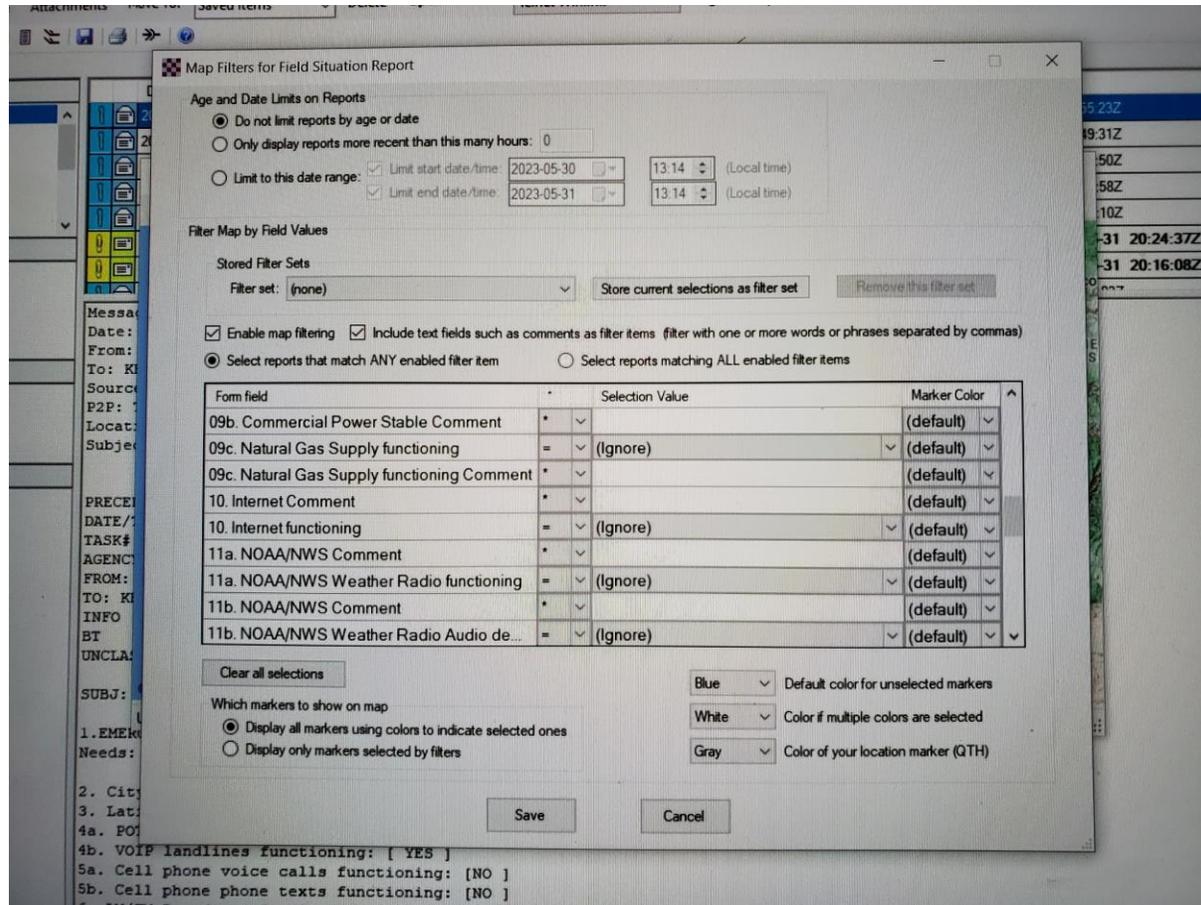
UNDER “Age and Date Limits on Reports”, SELECT “Do not limit reports by age or date” TO START WITH, AND HAVE “Enable map filtering” BOX CHECKED



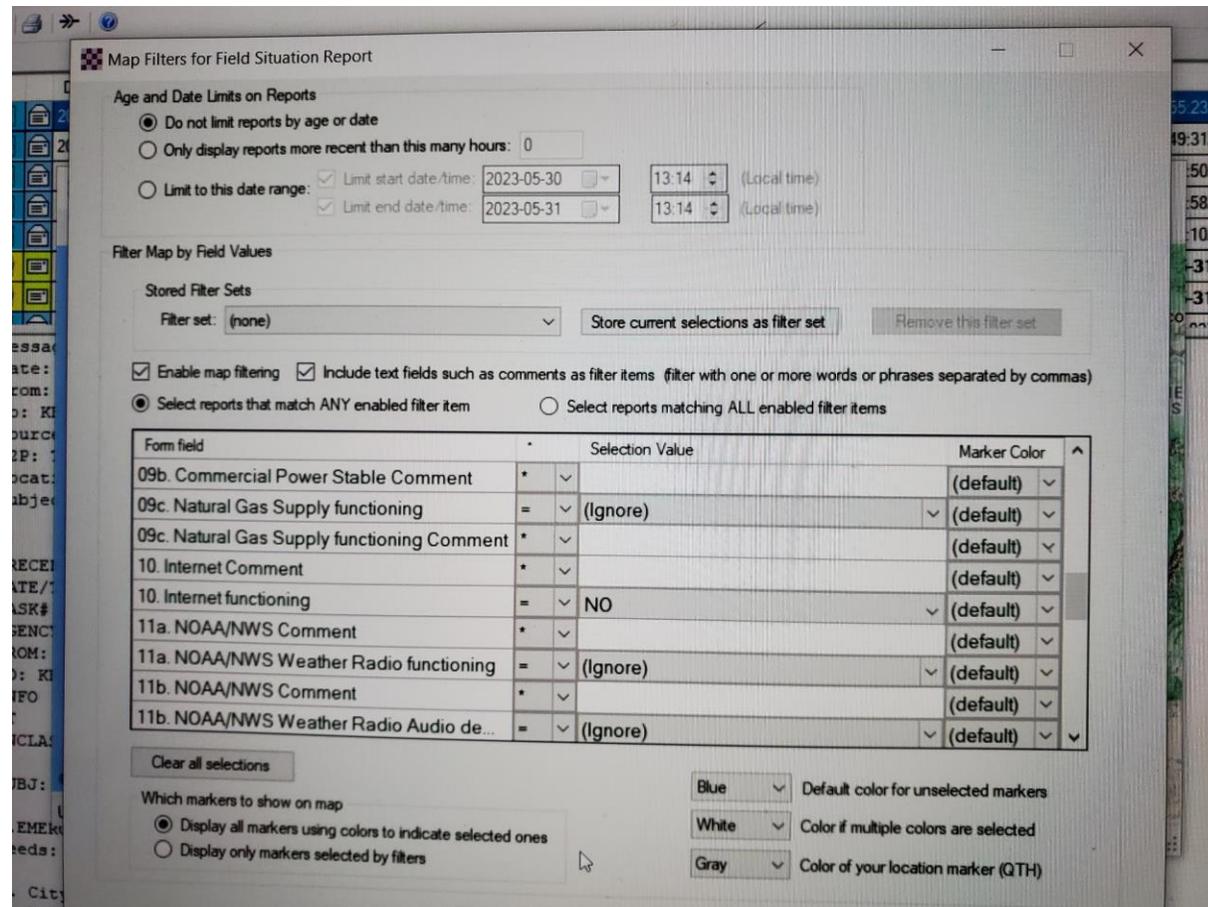
# HAVE “Select reports that match ANY enable filter item” CIRCLE SELECTED



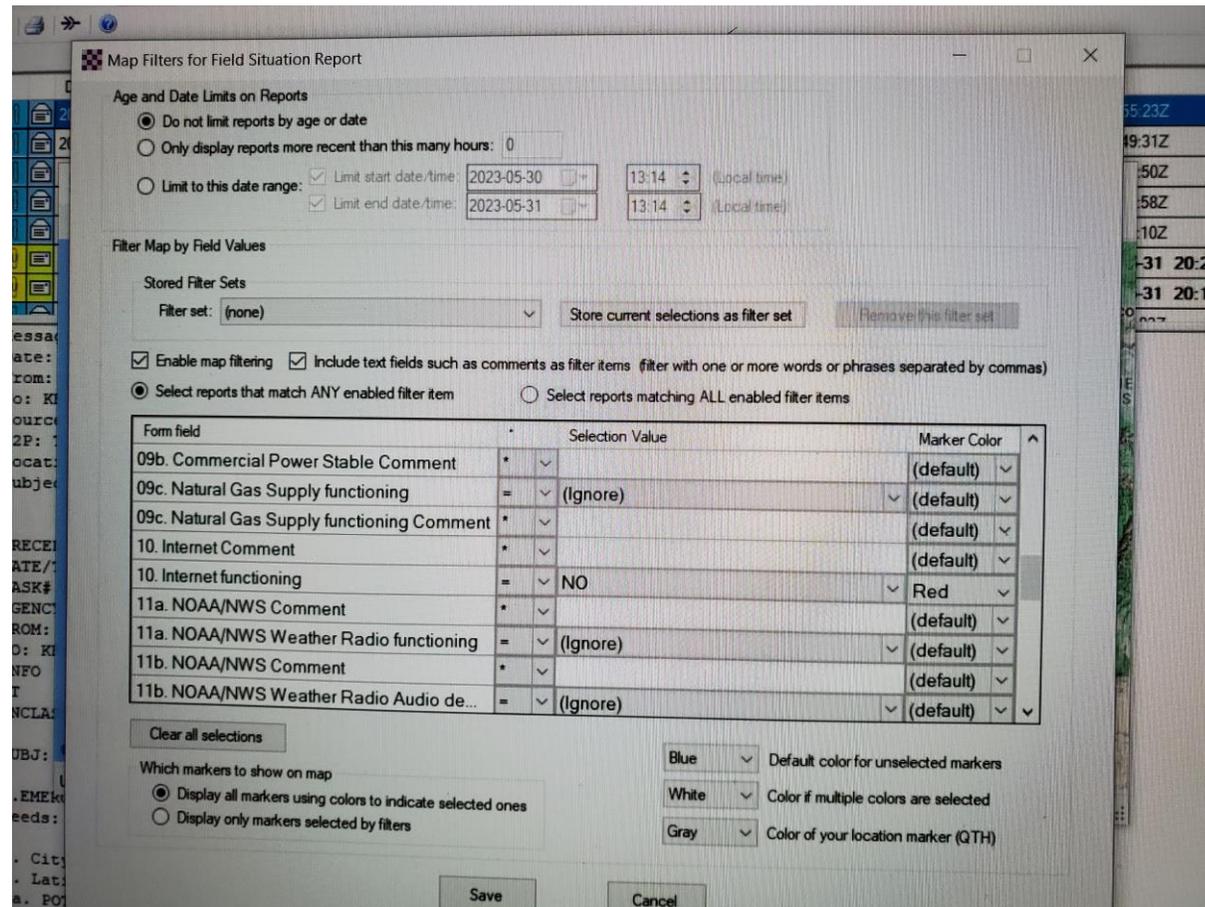
NEXT SCROLL THE “Form field”, “Selection Value” AND “Marker Color” BOX DOWN TO DISPLAY SELECTION NUMBER 10 “Internet functioning”



IN ROW NUMBER 10 “Internet functioning” IN THE “Selection Value” COLUMN, CHANGE “Ignore” IN THE DROP DOWN MENU(FAR RIGHT) TO “NO”



NEXT CHANGE THE MARKER COLOR IN THAT LINE,  
I CHOSE RED, USING THE DROP DOWN MENU



AT THE BOTTOM OF THE PAGE UNDER “Which markers to show on map”, SELECT “Display all markers using colors to indicate selected ones” AND THEN PRESS “Save”

10. Internet functioning	=	∨	NO
11a. NOAA/NWS Comment	*	∨	
11a. NOAA/NWS Weather Radio functioning	=	∨	(Ignore)
11b. NOAA/NWS Comment	*	∨	
11b. NOAA/NWS Weather Radio Audio de...	=	∨	(Ignore)

Clear all selections

Which markers to show on map

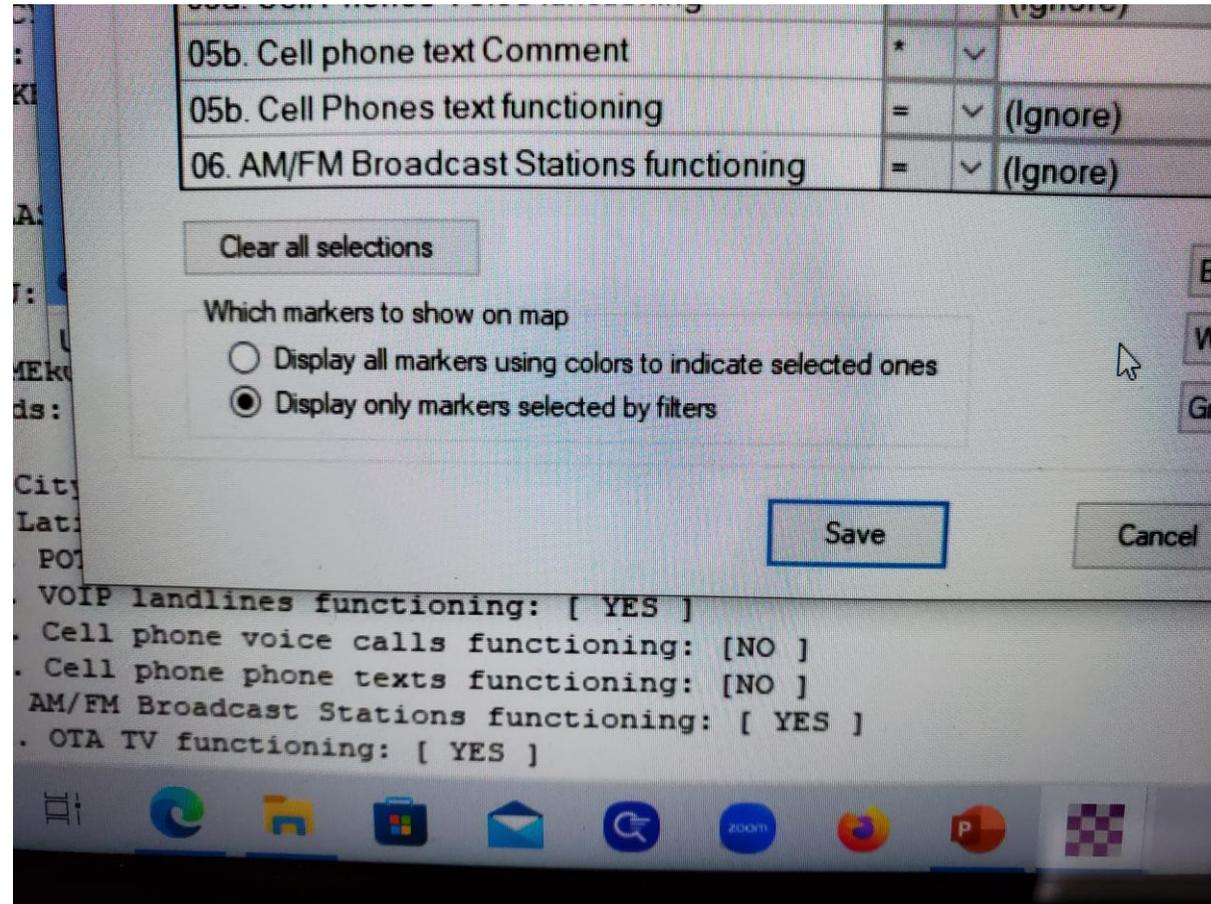
Display all markers using colors to indicate selected ones

Display only markers selected by filters

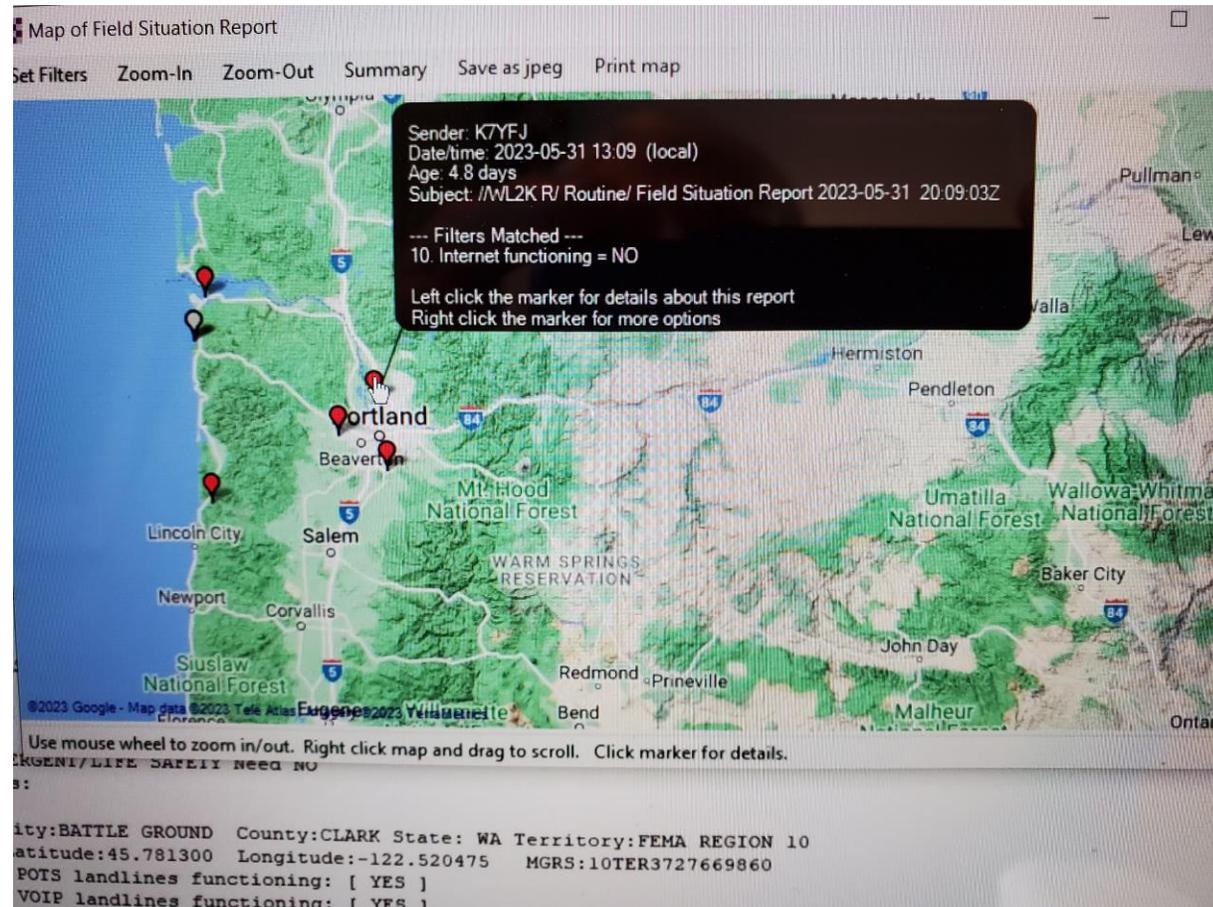
Save Cancel

OIP landlines functioning: [ YES ]  
cell phone voice calls functioning: [ NO ]  
cell phone phone texts functioning: [ NO ]  
I/FM Broadcast Stations functioning: [ YES ]  
OTA TV functioning: [ YES ]

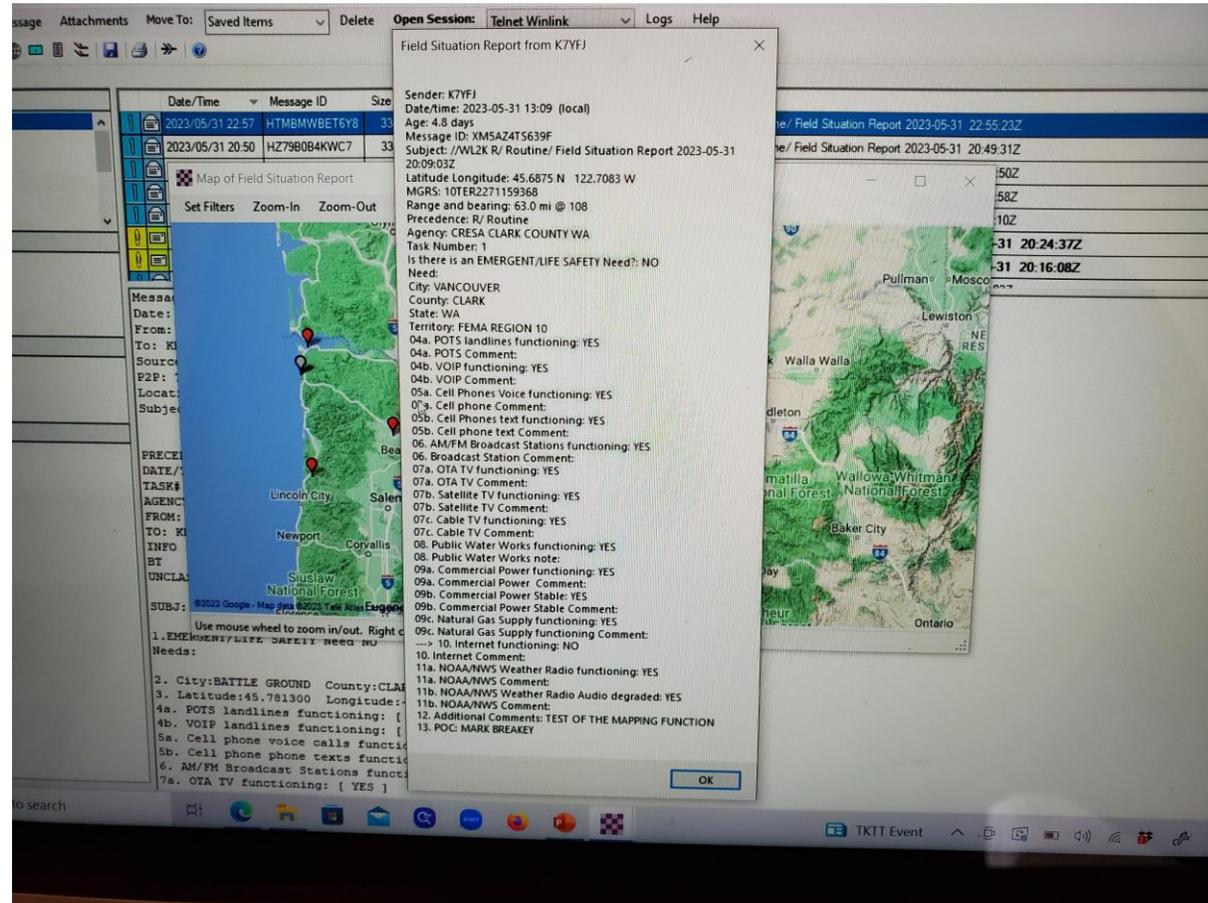
NEXT OPEN UP THE “SET FILTERS” AGAIN AND THIS TIME CHANGE TO “Display only markers selected by filters” AND SAVE



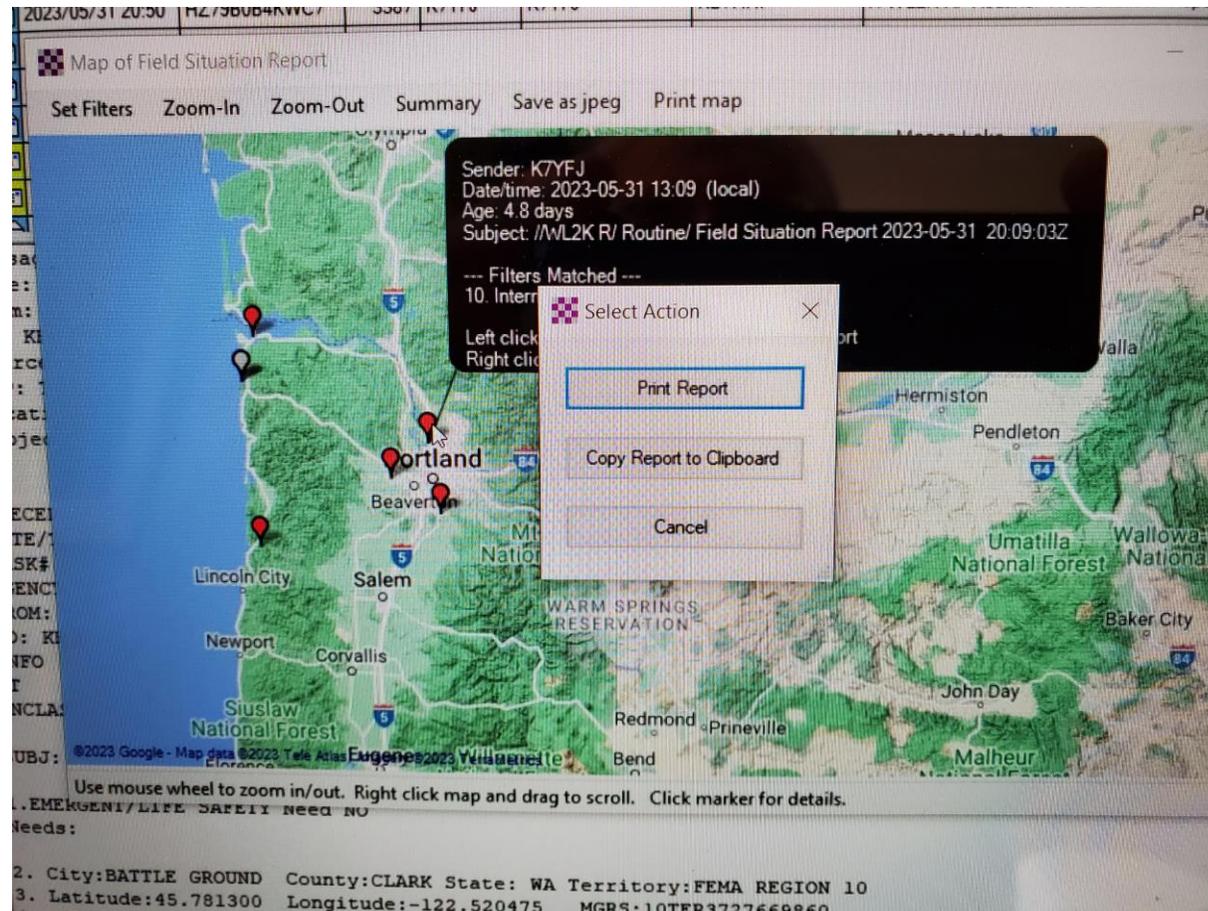
IF **DEBBIE** HOVERS OVER A MARKER, SHE WILL SEE THIS TYPE OF INFO...NOTE "...Filters Matched..."AND "10 Internet functioning =NO"



# IF YOU LEFT CLICK ON A MARKER, YOU SEE THE ENTIRE FIELD SITUATION REPORT FOR THAT INDIVIDUAL STATION



RIGHT CLICK ON A MARKER AND SELECT “PRINT REPORT” TO MAKE A HARD COPY OF THE “SELECTED FIELD SITUATION REPORT” AND HAND IT TO YOUR INCIDENT COMMANDER 😊



# DEBBIE AND MIKE HAVE JUST LEARNED HOW TO SEND GROUND TRUTH INFORMATION AND THEN DISPLAY THE INFO ON A MAP

- A SPECIAL THANK YOU TO STEVE WATERMAN FOR SHARING THESE STEPS WITH ME, SO I COULD THEN PASS ON THE INFO TO YOU
- THIS IS THE MOST POWERFUL FEATURE IN THE WINLINK EXPRESS FEATURE SET
- THEY SAY “A PICTURE TELLS A THOUSAND WORDS”
- THE INCIDENT COMMANDER INSTEAD OF SEEING A LONG LIST OF DATA POINTS WITH LINE BY LINE INFO, NOW CAN SEE EVERYTHING NEEDED ON ONE MAP

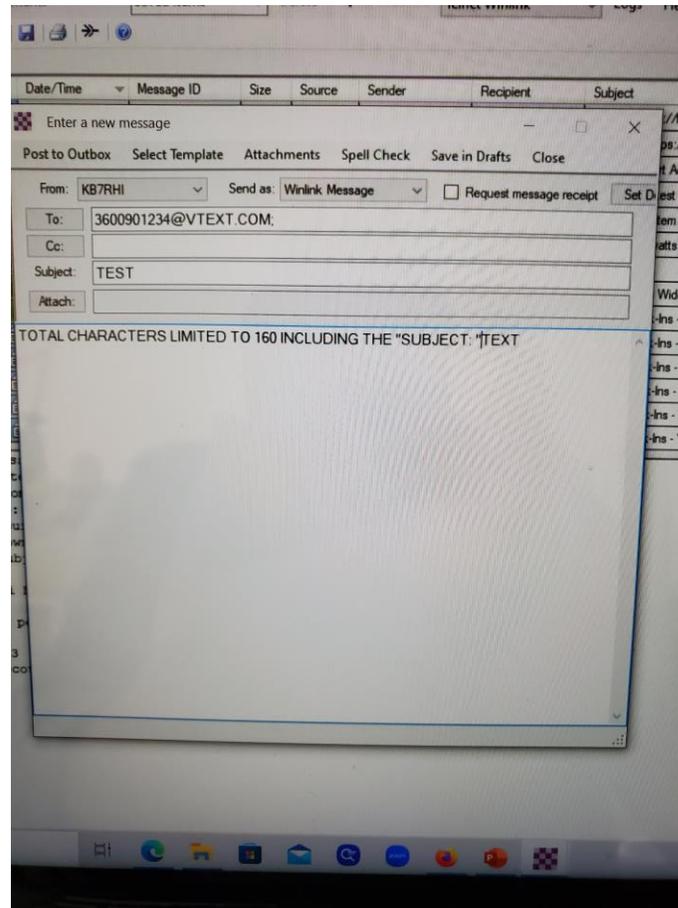
# FOR MORE INFORMATION ABOUT THE WINLINK MAP AGGREGATION CAPABILITY

- OLIVER DULLY K6OLI IS AN EXPERT AND HAS YOU-TUBE VIDEOS
- WAVE TALKER GROUP ALSO HAS YOU-TUBE VIDEOS

# SENDING SMS MESSAGES FROM WINLINK EXPRESS TO A PHONE...ENTER THE FOLLOWING IN THE "To:" LINE OF YOUR MESSAGE

- AT&T [NUMBER@TXT.ATT.NET](mailto:NUMBER@TXT.ATT.NET)
  - BOOST [NUMBER@SMSMYBOOSTMOBILE.COM](mailto:NUMBER@SMSMYBOOSTMOBILE.COM)
  - CRICKET [NUMBER@SMS.CRICKETWIRELESS.NET](mailto:NUMBER@SMS.CRICKETWIRELESS.NET)
  - SPRINT [NUMBER@MESSAGING.SPRINTPCS.COM](mailto:NUMBER@MESSAGING.SPRINTPCS.COM)
  - T-MOBILE [NUMBER@TMOMAIL.NET](mailto:NUMBER@TMOMAIL.NET)
  - VERIZON [NUMBER@VTEXT.COM](mailto:NUMBER@VTEXT.COM)
- 
- "NUMBER" = INSERT THE 10 DIGIT NUMBER
  - THE RECEIVING PARTY MAY BE ABLE TO REPLY BACK ON THEIR CARRIER, VERIZON IS A YES, HAVE NOT CHECKED OUT OTHERS

VERIZON WIRELESS EMAIL TO PHONE TEXT MESSAGE EXAMPLE...10 DIGIT NUMBER + VTEXT.COM ALL RUN TOGETHER PLACED IN THE "To:" LINE



# HOW THE SMS MESSAGE FROM WINLINK EXPRESS APPEARS ON A RECIPIENT'S PHONE

- TEXT YOU TYPED IN THE SUBJECT LINE WILL BE INSIDE OF ( )
- OUTSIDE OF THE ( ) IS WHAT YOU TYPED IN THE BODY OF THE MESSAGE
- SMS MESSAGING SUPPORTS UP TO 160 CHARACTERS
- IF A STATION IS ABLE TO REACH AN RMS JUST OUTSIDE OF THE DISASTER ZONE, THEY CAN REACH OUT TO OTHERS WHO ARE ALSO OUTSIDE OF THE IMPACTED AREA
- MY ANDROID PHONE USING VERIZON SAYS THE FOLLOWING MESSAGE UPON RECEIPT OF THIS SMS MESSAGE, "THIS MESSAGE IS FROM AN UNSAVED NUMBER. BEWARE OF SMISHING AND PHISHING."

# WINLINK CATALOG REQUESTS...HOW TO

WITH WINLINK EXPRESS OPENED...GO TO "SETTINGS" ...SCROLL DOWN TO "WINLINK CATALOG REQUESTS..."

ON THE FAR LEFT YOU WILL SEE A NUMBER OF "CATAGORIES" ...SELECT A CATEGORY...THEN IN THE MIDDLE OF THE SCREEN YOU WILL SEE "INQUIRY ID" AND "DESCRIPTIONS" ...DOUBLE CLICK ON ONE YOU WANT AND YOU WILL SEE THAT DESCRIPTION POPULATE THE "SELECTIONS" BOX ON THE UPPER RIGHT

WHEN YOU HAVE PICKED YOUR SELECTIONS, THEN HIT THE "POST REQUEST" BOX

YOUR REQUEST IS NOW IN YOUR "OUTBOX", READY TO BE SENT WITH YOUR NEXT RMS/TELNET CONNECTION

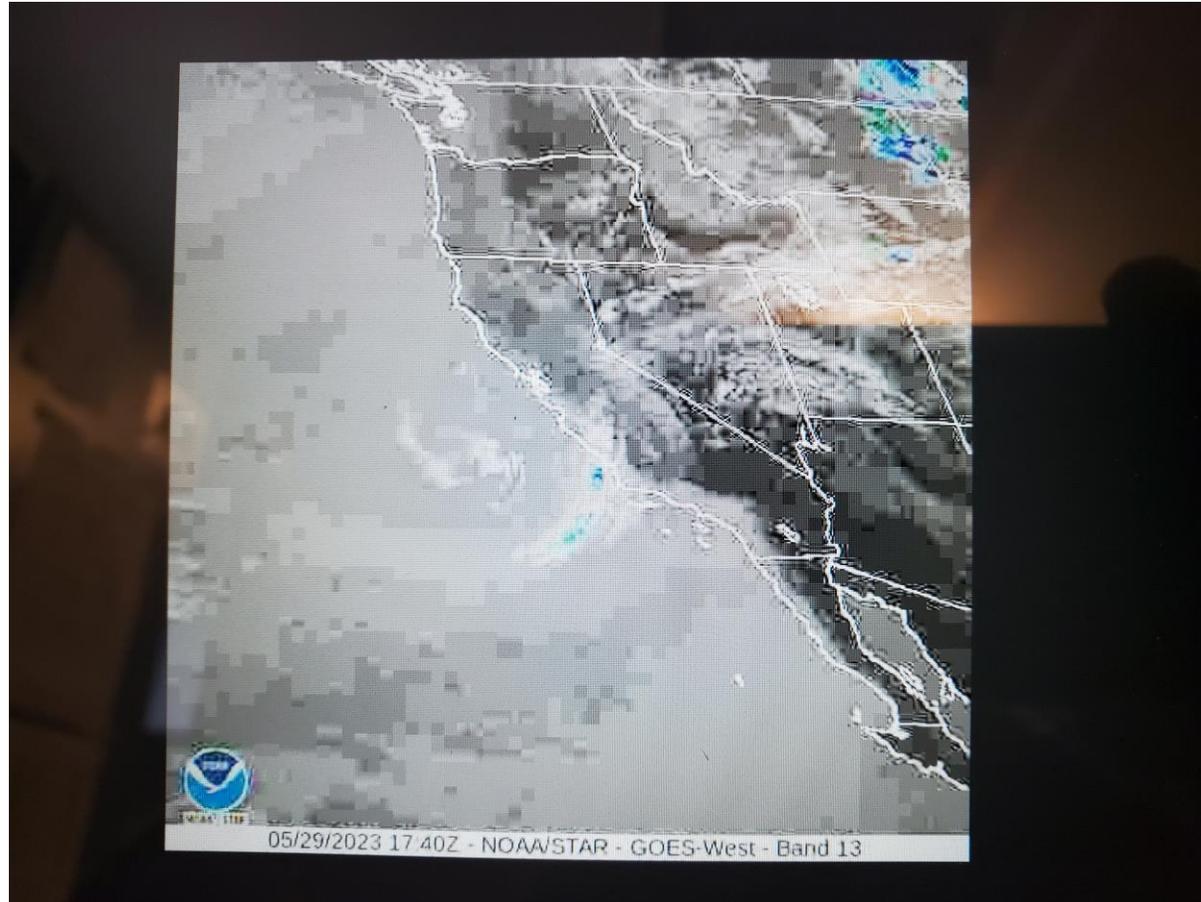
# WINLINK CATEGORY EXAMPLE

- UNDER CATEGORIES, GO TO “SAT\_PIX”, THIS WILL BRING UP A NUMBER OF SATELLITE PIC CHOICES
- THEN UNDER DESCRIPTION, GO TO “WCIR.JPG” WHICH IS West Coast Infra Red SAT PIC
- THEN “POST REQUEST”
- MAKE A RMS/TELNET CONNECTION AND SEND YOUR REQUEST
- WAIT FEW MINUTES AND THEN MAKE ANOTHER CONNECTION TO PICK UP YOUR SATELLITE PIC

# ANOTHER WAY TO REQUEST A CATALOG REQUEST

- OPEN UP THE WINLINK EXPRESS “NEW MESSAGE” SCREEN
- FOLLOW THESE STEPS...
- TO: “INQUIRY”
- SUBJECT: “REQUEST”
- IN THE BODY OF THE MESSAGE, INSERT THE “INQUIRY ID” LISTED, THE SAT PIC EXAMPLE, PUT “WCIR.JPG” IN THE BODY OF THE MESSAGE
- POST TO YOUR OUTBOX AS A “WINLINK” MESSAGE
- MAKE A CONNECTION AND SEND

HERE IS A SAT PIC FROM THE WEST COAST IR  
WEATHER SATELLITE



# A NON RADIO LICENSED PERSON CAN SEND AN EMAIL MESSAGE TO YOUR WINLINK CALL SIGN ONE OF THREE WAYS

- THEY REPLY TO YOUR EMAIL MESSAGE THAT YOU SENT TO THEM
- THEY COMPOSE A MESSAGE TO YOUR “CALL [SIGN@WINLINK.ORG](mailto:SIGN@WINLINK.ORG)” AND PUT “//WL2K R/ FIRST ON THE SUBJECT LINE, FOLLOWED BY THEIR SUBJECT MESSAGE
- THEY COMPOSE A MESSAGE TO “CALL [SIGN@WINLINK.ORG](mailto:SIGN@WINLINK.ORG)” AND YOU HAVE THEIR EMAIL ON A WHITELIST

# WINLINK WHITELIST SPAM FILTER

[https://www.winlink.org/content/how\\_manage\\_your\\_whitelist\\_spam\\_control](https://www.winlink.org/content/how_manage_your_whitelist_spam_control)

To: [SYSTEM@WINLINK.ORG](mailto:SYSTEM@WINLINK.ORG)

SUBJECT: WHITELIST

List: .....WILL COME BACK WITH YOUR WHITELIST INFO

Accept: [Name@somewhere.com](mailto:Name@somewhere.com), one email per CMD line

Reject: [Name@somewhere.com](mailto:Name@somewhere.com), one email per CMD line

Delete: Name @somewhere.com, one email per CMD line

No "@" will default to domain name

# PEER-TO-PEER MESSAGES VIA WINLINK USING VARA FM

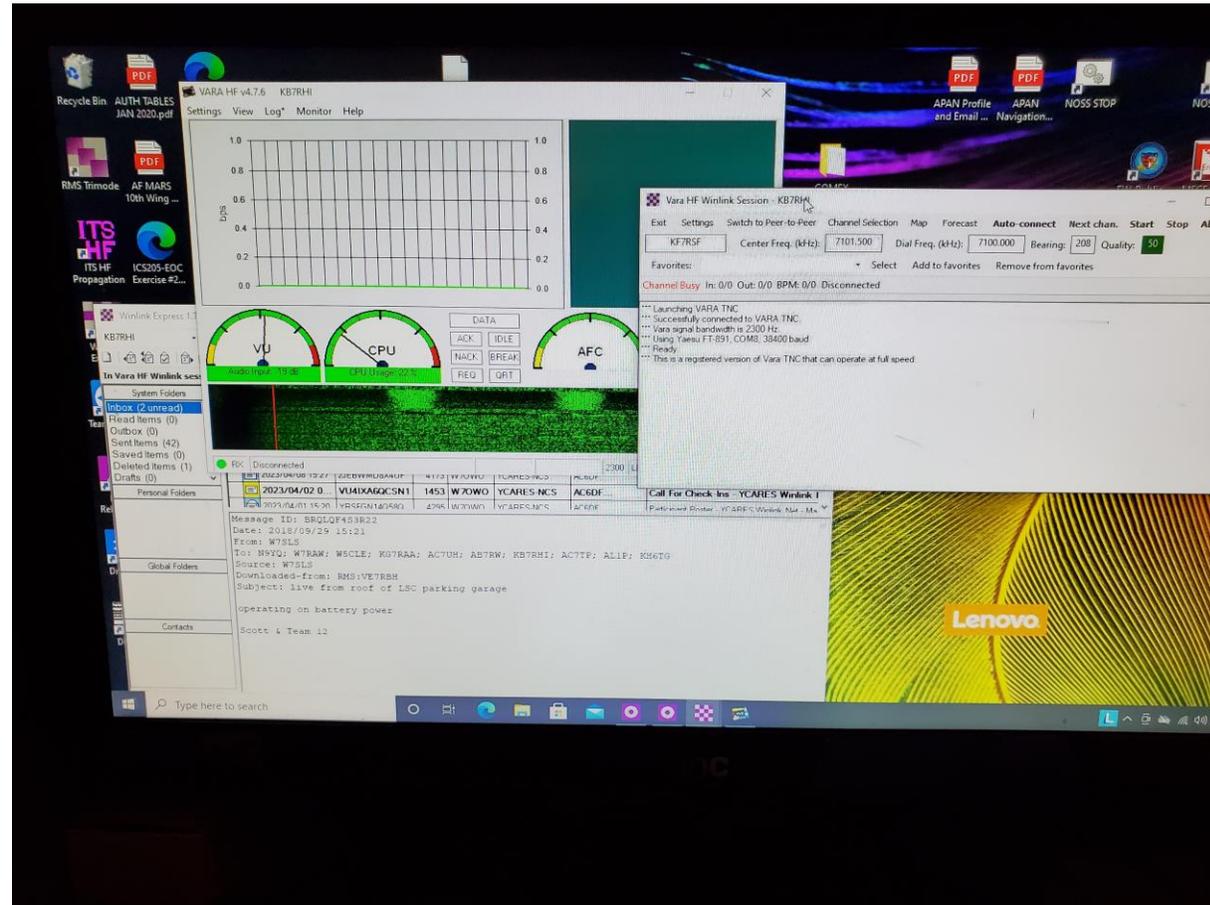
- MESSAGES SENT FROM ONE STATION TO ANOTHER WITH NO INTERNET IN USE
- VARA FM P2P MESSAGES CAN ALSO USE A “DIGI” TO HELP OPEN UP A RADIO PATHWAY FROM ONE STATION TO ANOTHER
- THE DIGI RELAY SITE IS DONE BY THE VARA FM PROGRAM ALONE...THE DIGI STATION COMPUTER DOES NOT NEED THE WINLINK VARA FM PROGRAM TO BE OPENED
- THE SENDING AND RECEIVING STATIONS MUST BOTH HAVE THEIR P2P WINLINK SESSION OPEN DURING A SESSION

# PEER-TO-PEER MESSAGES VIA WINLINK USING VARA FM

- YOU CAN “PUSH” OR “PULL” MESSAGES AS NEEDED, YOU CAN SEND A MESSAGE OR MAKE A CONNECTION AND PICKUP A MESSAGE THAT IS WAITING FOR YOUR PICKUP AT THE OTHER STATION
- A P2P STATION CAN “PARK” A GENERAL MESSAGE ADDRESSED TO SEVERAL STATIONS AND EACH STATION CAN PICK UP JUST THEIR COPY OF THE MESSAGE
- P2P MESSAGES CAN EXCEED THE 120KB FILE SIZE LIMIT, THIS ALLOWS SENDING A LARGE KB FILE SUCH AS A PICTURE, SORRY...NO VIDEOS YET 😊

# SELECTING A VARA HF STATION USING THE WINLINK PROGRAM

SELECTING A VARA HF RMS...VARA HF SESSION  
OPENED UP...NEXT CLICK ON “CHANNEL  
SELECTION”



# WINLINK HF RMS GATEWAYS CAN BE SELECTED FROM A LIST OR FROM A MAP

- THE LIST SHOWS CALL SIGN, FREQUENCY, MODE, GRID SQUARE, DISTANCE, BEARING, QUALITY OF THE PATH
- THE MAP SCREEN SHOWS RMS GATEWAYS AND COLOR CODES THE QUALITY

# WINLINK VARA HF LIST OF STATIONS, “HF CHANNEL SELECTOR”, CLICK ON THE “MAP” BUTTON TO SEE A MAP

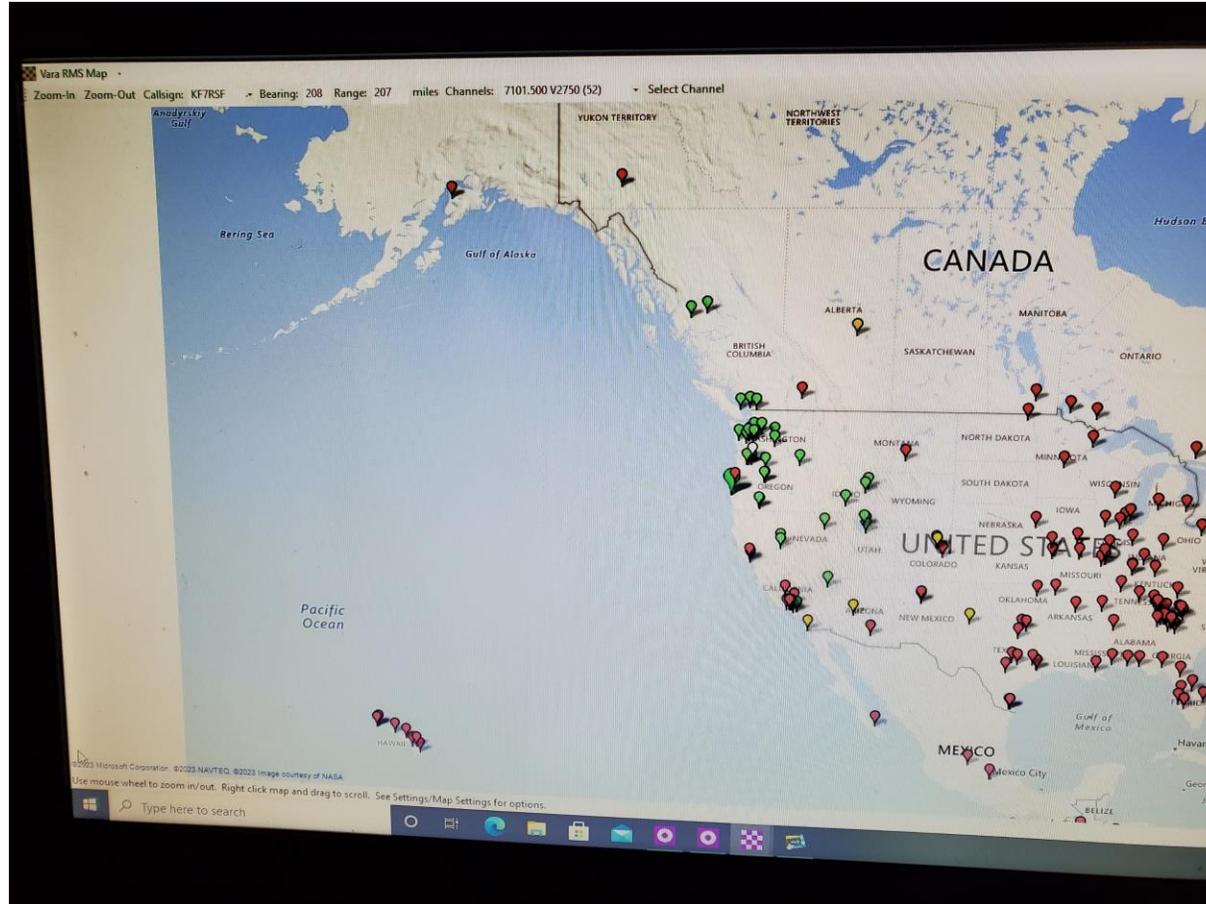
The screenshot shows the Winlink VARA HF software interface. The main window is titled "Vara HF Winlink Session - KB7RHI" and has a menu bar with options: Exit, Settings, Switch to Peer-to-Peer, Channel Selection, Map, Forecast, Auto-connect, Next chan., Start, Stop, Abort. The status bar shows "KF7RSF", "Center Freq. (kHz): 7101.500", "Dial Freq. (kHz): 7100.000", "Bearing: 208", and "Quality: 49".

Overlaid on this is the "HF Channel Selector" window, which has a menu bar: Exit, Select, Update Via Internet, Update Via Radio, Map, Forecast, SFI, All RMS. Below the menu bar is a table of station information:

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
W7OWO	3584.700	V500	CN85LH	00-23	PUBLIC	40	217	99	99
N7TRY-2	3588.000	V2300	CN85NI	00-23	PUBLIC	34	210	99	99
KD7ZDO	3587.500	V2300	CN85QH	00-23	PUBLIC	32	188	99	99
W7OWO	7105.500	V500	CN85LH	00-23	PUBLIC	40	217	96	96
KD7ZDO	7103.000	V2300	CN85QH	00-23	PUBLIC	32	188	96	96
N7TRY-2	7100.000	V2300	CN85NI	00-23	PUBLIC	34	210	96	96
KF7KLA	7104.500	V500	CN92CF	00-23	PUBLIC	247	171	70	50
KF7RSF	7101.500	V2300	CN73SC	00-23	PUBLIC	207	208	68	49
K7UNI	7102.000	V2300	DN05WH	00-23	PUBLIC	216	097	66	49
KF7RFI	7101.800	V2300	CN95IC	00-23	PUBLIC	76	127	66	48
N7LEW	7103.500	V2300	CN94HC	00-23	PUBLIC	129	153	66	49
KG7AV	7103.500	V2300	CN94IB	00-23	PUBLIC	133	152	66	49
W5KAV	7101.900	V2300	CN86KT	00-23	PUBLIC	77	339	65	48
W7PLC	7101.900	V2300	CN87MA	00-23	PUBLIC	89	347	65	48
N7LOB	7101.500	V2300	CN86BX	00-23	PUBLIC	105	323	65	48
WA7ROY	7101.200	V2300	CN86SX	00-23	PUBLIC	84	003	65	48
K7RHT	7101.700	V2300	CN97RD	00-23	PUBLIC	135	044	65	48

The "Map" button in the HF Channel Selector window is highlighted in green, indicating it is the intended action to view a map of the stations.

# VARA HF RMS GATEWAYS SEEN USING THE “MAP” SCREEN WHEN A VARA HF WINLINK SESSION OPENED

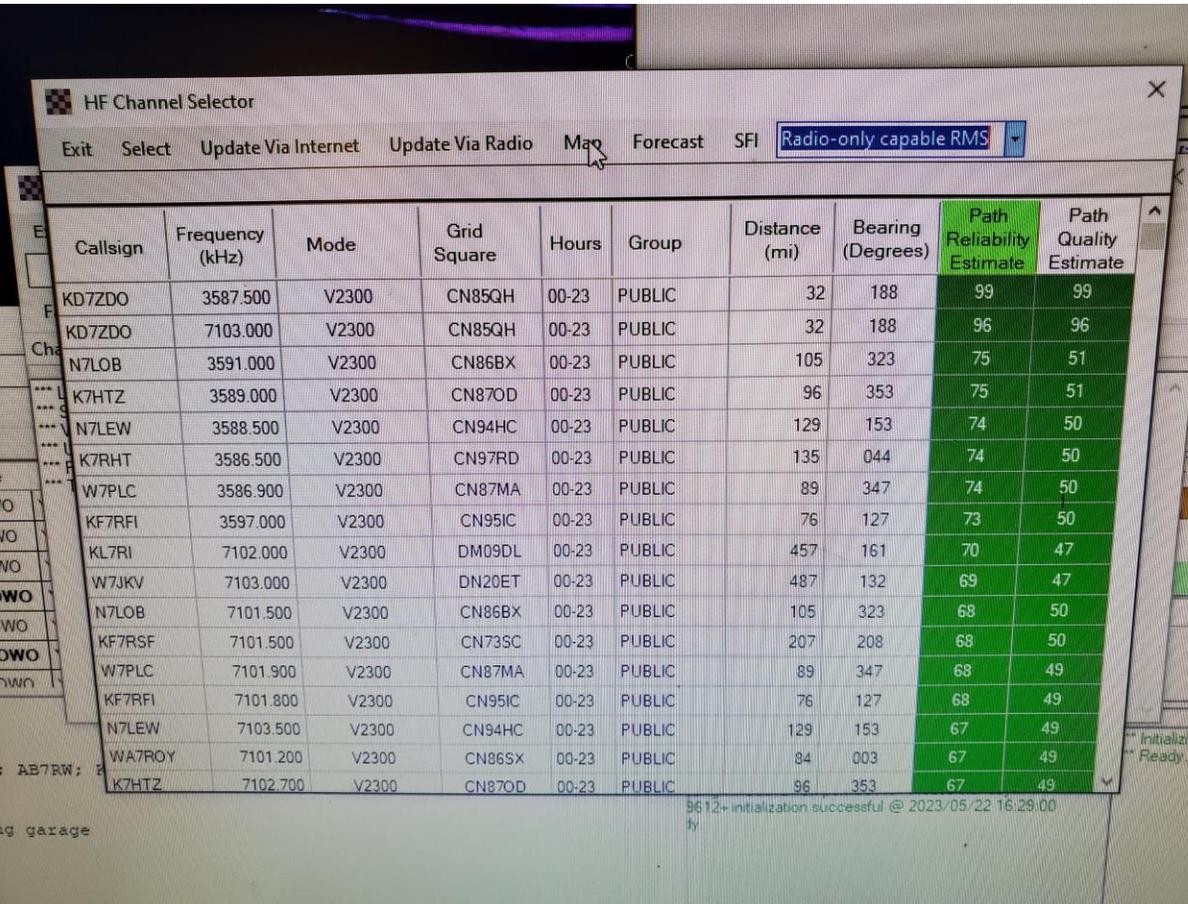


HF CHANNEL SELECTOR "LIST" IS OPEN...ON THE UPPER RIGHT, NOW PICK "RADIO-ONLY CAPABLE RMS" TO NEXT SEE RADIO-ONLY LIST

The screenshot shows the 'HF Channel Selector' window with a dropdown menu open. The menu options are 'All RMS' and 'Radio-only capable RMS'. The main window displays a table of radio stations with columns for Callsign, Frequency (kHz), Mode, Grid Square, Hours, Group, Distance (mi), Bearing (Degrees), Path Reliability Estimate, and Path Quality Estimate. The 'Radio-only capable RMS' filter is selected, and the table shows a list of stations with their respective metrics.

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
W7OWO	3584.700	V500	CN85LH	00-23	PUBLIC	40	217	99	99
N7TRY-2	3588.000	V2300	CN85NI	00-23	PUBLIC	34	210	99	99
KD7ZDO	3587.500	V2300	CN85QH	00-23	PUBLIC	32	188	99	99
N7TRY-2	7100.000	V2300	CN85NI	00-23	PUBLIC	34	210	96	96
KD7ZDO	7103.000	V2300	CN85QH	00-23	PUBLIC	32	188	96	96
W7OWO	7105.500	V500	CN85LH	00-23	PUBLIC	40	217	96	96
N7LOB	3591.000	V2300	CN86BX	00-23	PUBLIC	105	323	80	53
KG7AV	3586.500	V2300	CN94IB	00-23	PUBLIC	133	152	80	53
N7LEW	3588.500	V2300	CN94HC	00-23	PUBLIC	129	153	80	53
W7PLC	3586.900	V2300	CN87MA	00-23	PUBLIC	89	347	80	53
K7RHT	3586.500	V2300	CN97RD	00-23	PUBLIC	135	044	80	53
W5KAV	3594.000	V2300	CN86KT	00-23	PUBLIC	77	339	80	53
W5KAV	3588.000	V2300	CN86KT	00-23	PUBLIC	77	339	80	53
W7HMT	3590.500	V2300	CN97DL	00-23	PUBLIC	124	018	80	53
KF7RFI	3597.000	V2300	CN95IC	00-23	PUBLIC	76	127	79	53
K7HTZ	3589.000	V2300	CN87OD	00-23	PUBLIC	96	353	79	53
K7NHV	3598.000	V2300	CN87SK	00-16	PUBLIC	116	002	79	53

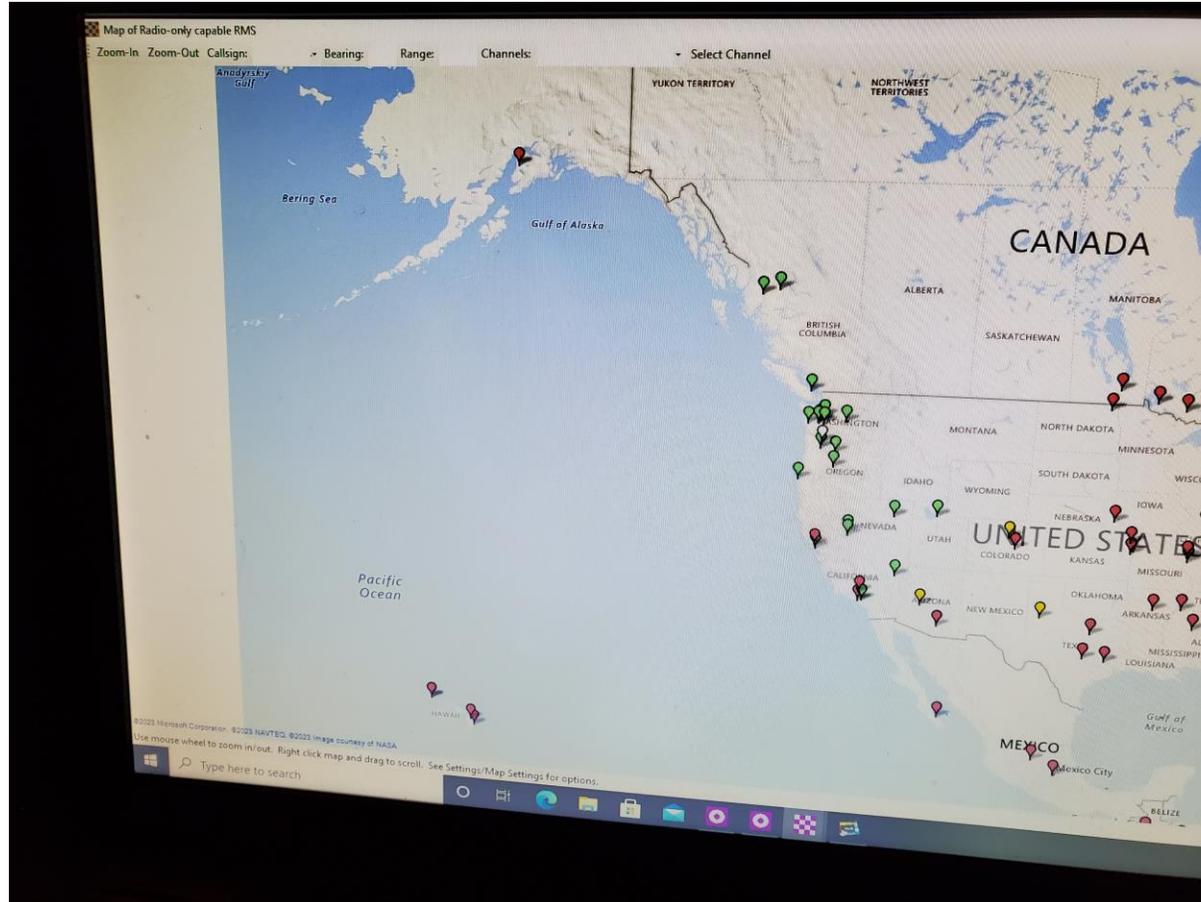
# VARA HF CHANNEL SELECTOR NOW SHOWS LIST OF RADIO-ONLY RMS SITES, NOW SELECT "MAP"



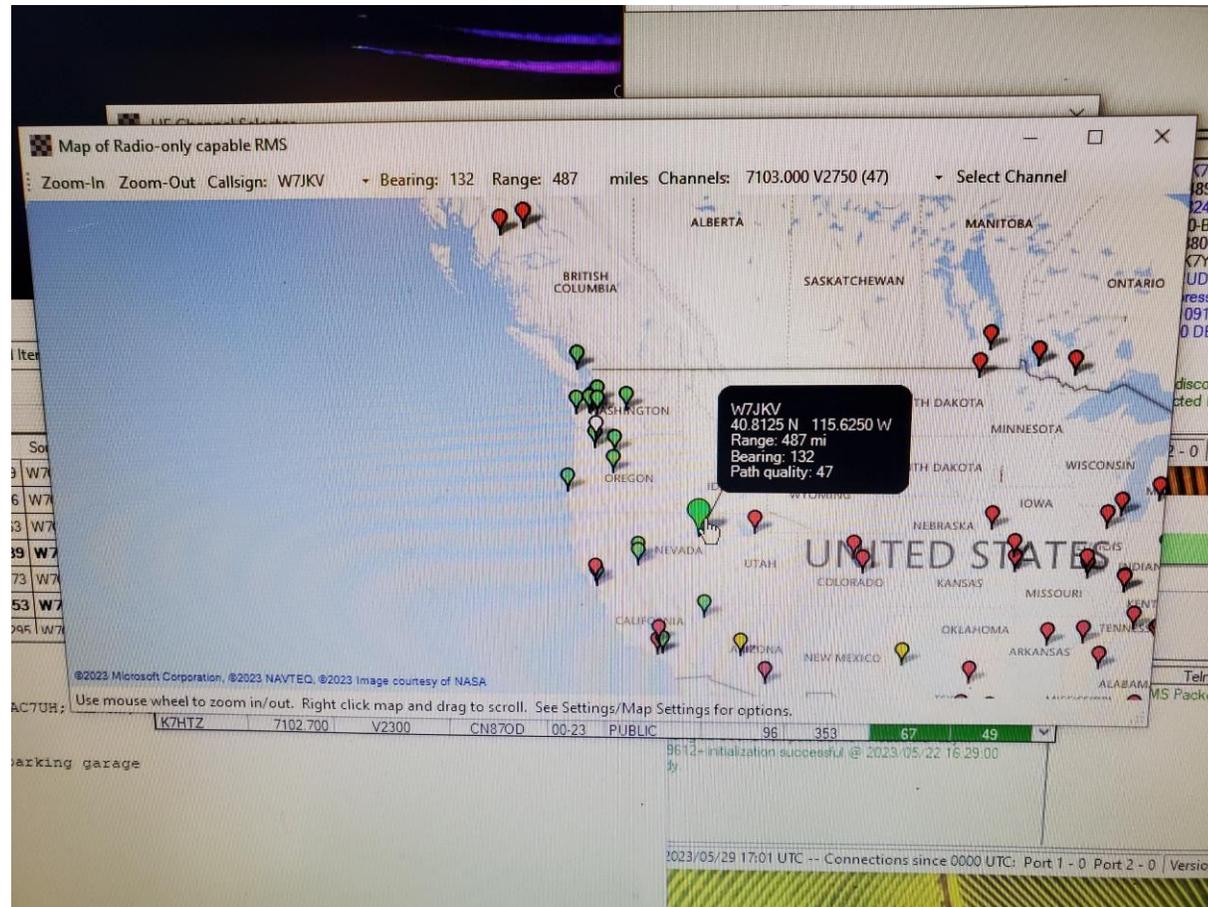
The screenshot shows the 'HF Channel Selector' application window. The menu bar includes 'Exit', 'Select', 'Update Via Internet', 'Update Via Radio', 'Map', 'Forecast', and 'SFI'. The 'Map' button is highlighted with a mouse cursor. A dropdown menu is open, showing 'Radio-only capable RMS' selected. Below the menu is a table of radio-only RMS sites with the following columns: Callsign, Frequency (kHz), Mode, Grid Square, Hours, Group, Distance (mi), Bearing (Degrees), Path Reliability Estimate, and Path Quality Estimate.

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
KD7ZDO	3587.500	V2300	CN85QH	00-23	PUBLIC	32	188	99	99
KD7ZDO	7103.000	V2300	CN85QH	00-23	PUBLIC	32	188	96	96
N7LOB	3591.000	V2300	CN86BX	00-23	PUBLIC	105	323	75	51
K7HTZ	3589.000	V2300	CN87OD	00-23	PUBLIC	96	353	75	51
N7LEW	3588.500	V2300	CN94HC	00-23	PUBLIC	129	153	74	50
K7RHT	3586.500	V2300	CN97RD	00-23	PUBLIC	135	044	74	50
W7PLC	3586.900	V2300	CN87MA	00-23	PUBLIC	89	347	74	50
KF7RFI	3597.000	V2300	CN95IC	00-23	PUBLIC	76	127	73	50
KL7RI	7102.000	V2300	DM09DL	00-23	PUBLIC	457	161	70	47
W7JKV	7103.000	V2300	DN20ET	00-23	PUBLIC	487	132	69	47
N7LOB	7101.500	V2300	CN86BX	00-23	PUBLIC	105	323	68	50
KF7RSF	7101.500	V2300	CN73SC	00-23	PUBLIC	207	208	68	50
W7PLC	7101.900	V2300	CN87MA	00-23	PUBLIC	89	347	68	49
KF7RFI	7101.800	V2300	CN95IC	00-23	PUBLIC	76	127	68	49
N7LEW	7103.500	V2300	CN94HC	00-23	PUBLIC	129	153	67	49
WA7ROY	7101.200	V2300	CN86SX	00-23	PUBLIC	84	003	67	49
K7HTZ	7102.700	V2300	CN87OD	00-23	PUBLIC	96	353	67	49

VARA HF RADIO ONLY MAP... SELECT "CHANNEL SELECTION", THEN SELECT "RADIO-ONLY", THEN OPEN THE "MAP"



VARA HF RADIO-ONLY CAPABLE RMS  
GATEWAYS...YOU CAN HOVER OVER A SITE AND  
SEE MORE INFO...YOU CAN ALSO SELECT THAT SITE  
FOR A RADIO SESSION



# WINLINK GPS/POSITION REPORTS

- OPEN WINLINK EXPRESS
- GO TO “SETTINGS”
- GO TO “GPS/POSITION REPORTS”
- IF YOU HAVE A GPS DONGLE OR TCPIP VIA IOS DEVICE, YOU CAN COPY THE LOCATION DATA, ADD AN OPTIONAL MESSAGE AND THEN “POST REPORT”
- IOS PHONE APP “GPS2IP” WILL ALLOW GPS DATA FROM YOUR PHONE TO TRANSFER TO YOUR LAPTOP

# WINLINK MAP FEATURE

- ONCE YOU OPEN THE MAP AND SEE ALL THE AVAILABLE RMS STATIONS
- YOU CAN CLICK ON A STATION, SELECT THE FREQ THEY ARE SCANNING THAT YOU WANT TO USE
- THEN “SELECT” THAT STATION AND WINLINK SESSION WILL OPEN UP THAT STATION AND SEND INFORMATION FOR RADIO CONTROL TO CHANGE YOUR DIAL FREQUENCY TO THAT STATION
- THE MAP WILL SHOW STATIONS WITH A GOOD PATH QUALITY IN GREEN, YELLOW IS MORE MARGINAL, AND A RED COLOR IS CONSIDERED A POOR PATH QUALITY

# RESOURCE LINK EVERY RADIO OPERATOR IN THE NW SHOULD HAVE A COPY OF

- [Cascadia Rising Exercise Scenario.pdf \(oregon.gov\)](#)
- THIS LINK HAS THE BEST INFO REGARDING THE VARIOUS IMPACTS THAT WOULD HAPPEN WITH A 9.0 CASCADIA SUBDUCTION ZONE EARTHQUAKE

# RADIO-ONLY MESSAGE VIA WINLINK HF

- NO INTERNET INVOLVED, THE INTERNET IS DOWN?
- THE MESSAGE CAN ONLY BE PICKED UP VIA A RADIO CONNECTION TO A HYBRID STATION
- MESSAGE IS ONLY SENT VIA RADIO AND STORED ON AN MPS (MESSAGE PICKUP STATION) PRESELECTED BY A CLIENT...MPS MUST BE SELECTED 24 HOURS BEFORE...THE GATEWAYS UPDATE THEIR SERVER INFO ONCE A DAY, USUALLY IN THE MIDDLE OF THE NIGHT
- RECOMMEND PICKING TWO MPS
- THE RMS GATEWAY MUST BE IN HYBRID MODE

# SPECIAL THANKS TO TWO AMATEUR RADIO OPERATORS WHO HAVE BEEN MY MENTORS OVER THE YEARS

- THANK YOU GARY TAKIS...K7GJT FOR SPENDING HOURS SHOWING ME EVERYTHING ABOUT HAM RADIO
- THANK YOU TO WALTER KAELIN WHO TAUGHT ME INFO ABOUT USING PACTOR MODEMS AND PORTABLE OPERATIONS

• KB7RHI