## 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

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## 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

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## 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

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## 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

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## 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			Tanga and	
	CRESA CLARK COUNTY WA				
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## 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 UTILITY/ COMMUNICATION FUNCTIONING STATUS..."YES", "NO", "UNKNOWN"

3. Latitude and longitude: LAT 45.78	MS%20Express/K7YFJ/Temp/Field%20Situation%20Report%20Initial.html A <sup>N</sup> 300 LON 122 520475 . MGRS 10TER3727669860	20 2=	œ	2
CRITICAL, the reporter should describe the si	via 911. If 911 services are not available, a reporter may use this form and mark the block for uation and provide the residential address.			
4a. POTS landlines functioning?	enter of the grid square listed in Express Settings  YES O NO O Unknown - N/A			
4b. VOIP landlines functioning?	YES O NO O Unknown - N/A	1		
5a. Cell phone voice calls functioning?	° ● YES ○ NO ○ Unknown - N/A			
5b. Cell phone texts functioning?	● YES ○ NO ○ Unknown - N/A			
6. AM/FM Broadcast Stations functioni	ng?   YES   NO   Unknown - N/A  quency that is off-the-air.			
7a. OTA TV functioning?	YES O NO O Unknown - N/A			
7b. Satellite TV functioning?	● YES ○ NO ○ Unknown - N/A			
7c. Cable TV functioning?				
/inlink kpress RMS Relay - RMS Trimode RMS Packet Shortcut	- VARA FM VARA HF			•

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

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. Public Water Works functioning?	
Comments	1
Ba . Commercial Power functioning?	
lif no, state provider.	B
9b . Commercial Power Stable?	
If no, state provider.	1
9c. Natural Gas Supply functioning?	
If no, state provider.	
10. Internet functioning? O YES  NO O Unknown - N/A	
If no, indicate Fiber/Cable/Wireless/Satellite, state provider.	
11a. NOAA weather radio functioning?	
Identify NOAA Weather Radio Transmitter by frequency, call sign or location.	
11b NOAA weather radio audio degraded?   YES O NO O 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 MARK BREAKEY	
Save Field Situation data Submit Reset Form	Ver 0.2.9
Actor	

## 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

no, state provider.	This page says			An Eo
Public Water Works functioning?	Field Situation Data 2023-05-31	15_18.txt		
a. Commercial Power functioning?		OK Cancel		
b. Commercial Power Stable?	hts O Unknown - N/A			
If no, state provider.		A		
C. Natural Gas Supply functioning?   YES O NO O Unknown - N/A If no, state provider				
10. Internet functioning? YES NO Unknown - N/A				
11a. NOAA weather radio functioning?	N/A			
11b NOAA weather radio audio degraded?      YES NO Unknown - N	WA			
12. Additional Comments Brief summary of current situation - expected outage times, mail	ajor observations, etc			
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## THE FIELD SITUATION DATA IS NOW SAVED AND YOU SEE THIS SCREEN, NEXT SELECT "SUBMIT"

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If no, state provider.	lė	See more
Commercial Power Stable? • YES O NO- Brown outs/blinking lights O Unknown - N/A		
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Natural Gas Supply functioning?		
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). Internet functioning? O YES  NO O Unknown - N/A		
f no, indicate Fiber/Cable/Wireless/Satellite, state provider.	A	
1a. NOAA weather radio functioning?		
dentify NOAA Weather Radio Transmitter by frequency, call sign or location.	4	
b NOAA weather radio audio degraded? ● YES ○ NO ○ Unknown - N/A		
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## YOU HIT THE "SUBMIT" BUTTON, YOU WILL NOW SEE THIS POP UP SCREEN...SELECT "OK"

Field Situation Report × +		
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no, state provider.	This page says To complete your form submission, click OK and close the browser window. You will return to the new message win	e open dow so you
	can post your message to the outbox	
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b. Commercial Power Stable?	ights O Unknown - N/A	
If no, state provider.	A	
Sc. Natural Gas Supply functioning?		
If no, state provider.		
10. Internet functioning? O YES  NO O Unknown - N/A		
If no, indicate Fiber/Cable/Wireless/Satellite, state provider.	<u>A</u>	
11a. NOAA weather radio functioning?	- N/A	
Identify NOAA Weather Radio Transmitter by frequency, call sign or location.	<i>N</i>	*
11b. NOAA weather radio audio degraded?	- 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.	
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## 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"

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SUBJ: Field Situation Report 2023-05-31 22:35:39Z 1.EMERGENT/LIFE SAFETY Need NO Needs: 2. City-ANY TOWN County-ANY COUNTY State: WA Territory:FEMA REGION 10 3. Latitude:45:781300 Longitude:-122:520475 MGRS:10TER3727669860 4a. POTS landlines functioning: [YES] 4b. VOIP landlines functioning: [YES] 5a. Cell phone voice calls functioning: [YES] 5b. Cell phone phone texts functioning: [YES] 6. AM/FM Broadcast Stations functioning: [YES]	) ground,	2023-05-22 2	2:12:26		

## **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

Winlink Express 1.7.6.4 - KB7RHI							and the second
KB7RHI - Settings Message	Attachme	ents	Move To: Saved I	tems 🗸 De	lete O	)pen Sess	ion:
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Sent Items (76)		IE	2023/05/31 20:46	5MMM2CT60147	3378	K7YFJ	KTY
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		DATE/ TASK# AGENC FROM:	TIME Group: 2 Y: CRESA CLAR K7YFJ	023-05-31 22	:55:23	Z	

## 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"

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2023/05/31 20:50	HZ79B0B4KWC7	3387	K/YFJ	K/YFJ		//WL2K R/ Routine/ Field	Situation Report 2022-05-31 20:44:50
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age ID: HTMBM : 2023/05/31 : K7YFJ	WBET6Y: 22:57 Numbe	Number of stored reports: 8				NAT .	
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## 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	HZ79B0B4KWC7	3387	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Sit	tuation Report 2023-05-31 20:49:31
2023/05/31 20:46	5MMM2CT60147	3378	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Sit	tuation Report 2023-05-31 20:44:50
2023/05/31 20:38	1FY0HYK81WS3	3342	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Sit	tuation Report 2023-05-31 20:35:58
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## NEXT STEP IS TO CLICK ON THE "Display Map" AT THE LOWER LEFT

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2023/05/31 20:38	1EY0HYK81WS3	3342	K7YFJ	K7YFJ	KB7RHI	//WL2K R/ Routine/ Field Si	tuation Report 2023-05-31 20:35:58	
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## 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

5	Map Filters for Field Situation Report				-		×
102	Age and Date Limits on Reports						55:23Z
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16							10Z
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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

	Map Filters for Field Situation Report					—		× –
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# HAVE "Select reports that match ANY enable filter item" **CIRCLE** SELECTED

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

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	Filter Map by Field Values			-31
8 -	Stored Filter Sets			-31
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Messa				
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all cast		(d		
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# IN ROW NUMBER 10 "Internet functioning" IN THE "Selection Value" COLUMN, CHANGE "Ignore" IN THE DROP DOWN MENU(FAR RIGHT) TO "NO"

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

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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	*	V	
	11b. NOAA/NWS Weather Radio Audio de	=	V	(Ignore)
	Clear all selections Which markers to show on map Display all markers using colors to indicate selected Display only markers selected by filters	d one	S	
	Sa	ve		Cance
oIP 1 ell p ell p /FM H /FM H	Landlines functioning: [YES] phone voice calls functioning: [NO] phone phone texts functioning: [NO] Broadcast Stations functioning: [YES V 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 <sup>©</sup>



# 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 <u>NUMBER@TXT.ATT.NET</u>
- BOOST <u>NUMBER@SMSMYBOOSTMOBILE.COM</u>
- CRICKET <u>NUMBER@SMS.CRICKETWIRELESS.NET</u>
- SPRINT <u>NUMBER@MESSAGING.SPRINTPCS.COM</u>
- T-MOBILE <u>NUMBER@TMOMAIL.NET</u>
- VERIZON <u>NUMBER@VTEXT.COM</u>
- "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 CATAGORIES, 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 <u>SIGN@WINLINK.ORG</u>" AND PUT "//WL2K R/ FIRST ON THE SUBJECT LINE, FOLLOWED BY THEIR SUBJECT MESSAGE
- THEY COMPOSE A MESSAGE TO "CALL <u>SIGN@WINLINK.ORG</u>" AND YOU HAVE THEIR EMAIL ON A WHITELIST

# WINLINK WHITELIST SPAM FILTER

https://www.winlink.org/content/how manage your whitelist spame ontrol

- To: <u>SYSTEM@WINLINK.ORG</u>
- SUBJECT: WHITELIST

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

Accept: <u>Name@somewhere.com</u>, one email per CMD line

Reject: <u>Name@somewhere.com</u>, 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

	KF7RSF	Center Freq. (	kHz): 7101.5	00 Dial Fr	eq. (kHz): 7	Auto-c 100.000	Bearing: 2	08 Quality:	49	ADOFL	
ICS205-EOC Relay_1 on Exercise #2	Favorites: Channel Free In: 0/0	Exit Selec	<mark>nel Selector</mark> t Update Vi	a Internet U	pdate Via Radi	o Map	Forecast	SFI All RM	15	-	
Winlink Express 1.7.6.3 - KB	*** Launching VARA TN *** Successfully connec *** Vara signal bandwidt *** Using Yaesu FT-891	Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
	*** This is a registered v	W7OWO	3584.700	V500	CN85LH	00-23	PUBLIC	40	217	99	99
Name WE Winlink service		N7TRY-2	3588.000	V2300	CN85NI	00-23	PUBLIC	34	210	99	99
vara nr willink session.		KD7ZDO	3587.500	V2300	CN85QH	00-23	PUBLIC	32	188	99	99
System Folders		W70WO	7105.500	V500	CN85LH	00-23	PUBLIC	40	217	96	96
ead Items (0)		KD7ZDO	7103.000	V2300	CN85QH	00-23	PUBLIC	32	188	96	96
utbox (0)		N7TRY-2	7100.000	V2300	CN85NI	00-23	PUBLIC	34	210	96	96
ent Items (42)		KE7KLA	7104.500	V500	CN92CF	00-23	PUBLIC	247	171	70	50
eleted Items (1)		KE7RSE	7101.500	V2300	CN73SC	00-23	PUBLIC	207	208	68	49
Drafts (0) Y	Lauranteriterter	K7UNI	7102.000	V2300	DN05WH	00-23	PUBLIC	216	097	66	49
Personal Folders		KE7REI	7101.800	V2300	CN95IC	00-23	PUBLIC	76	127	66	48
F	Marine Contraction	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
Clobal Saldam		W7PLC	7101.900	V2300	CN87MA	00-23	PUBLIC	89	347	65	48
Giobal Folders		N7LOB	7101.500	V2300	CN86BX	00-23	PUBLIC	105	323	65	48
		WA7ROY	7101.200	V2300	CN865×	00-23	PUBLIC	84	003	65	48
		UNDERLIT	7101 700	1/2200	CNI97PD	00-23	PUBLIC	135	044	65	48

## 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

Exit	Select	Update Via li	nternet Upo	late Via Radio	Map	Forecast	SFI All RM All RM	IS IS	DAAG		
Ca	Illsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Reliability Estimate	Path Quality Estimate	î
W7C	OWO	3584.700	V500	CN85LH	00-23	PUBLIC	40	217	99	99	
N7T	RY-2	3588.000	V2300	CN85NI	00-23	PUBLIC	34	210	99	99	
KD	ZDO	3587.500	V2300	CN85QH	00-23	PUBLIC	32	188	99	99	
4N7	TRY-2	7100.000	V2300	CN85NI	00-23	PUBLIC	34	210	96	96	
KD	7ZDO	7103.000	V2300	CN85QH	00-23	PUBLIC	32	188	96	96	
W	70W0	7105.500	V500	CN85LH	00-23	PUBLIC	40	217	96	96	
N	7LOB	3591.000	V2300	CN86BX	00-23	PUBLIC	105	323	80	53	
K	G7AV	3586.500	V2300	CN94IB	00-23	PUBLIC	133	152	80	53	
1	17LEW	3588.500	V2300	CN94HC	00-23	PUBLIC	129	153	80	53	
F	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	
1	W5KAV	3588.000	V2300	CN86KT	00-23	PUBLIC	77	339	80	53	
1	W7HMT	3590.500	V2300	CN97DL	00-23	PUBLIC	124	018	80	53	
11118	KF7RFI	3597.000	V2300	CN95IC	00-23	PUBLIC	76	127	79	53	
RW;	H K7HTZ	3589.00	0 V2300	CN87OD	00-23	PUBLIC	96	353	79	53	"" Rea
	LK7NHV	3598.80	0 V2300	CN87SK	00-16	PUBLIC	116	002	79	53 🗡	

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

Exit Select	Update Via I	nternet Up	date Via Radio	Maro	Forecast	SFI Radio	only capabl	e RMS	
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	CN870D	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
WA7RO	Y 7101,200	V2300	CN86SX	00-23	PUBLIC	84	003	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 los 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

- <u>Cascadia Rising Exercise Scenario.pdf (oregon.gov)</u>
- 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