



EXECUTIVE SUMMARY

On December 9, 2023, members of the Central Oregon Amateur Radio Emergency Communications Team ("COARECT") participated in a localized drill, known as a Simulated Emergency Test ("SET"), to test their communications capabilities. The objectives were the same as identified for the Mini SET conducted in August of 2023. This included: 1) allowing Net Controllers to practice and enhance their skills, while operating at a remote location (primary residences), 2) provide all members of the Team a general understanding of the different operational positions and operational procedures conducted during a possible emergency operation, and 3) determine point-to-point contact coverage, without going through any amplifying devices, throughout COARECT's primary area of responsibility.

A SET brings together different roles among the team members, reinforces teamwork and allows members to gain an understanding of how they would operate, as an individual and/or team position, in an actual emergency activation. An evaluation of the operations will identify both those areas where the team is successful as well as those areas where there are capability gaps with areas needing enhancement.

A package of SET instructional directions was sent to all team members before the SET. In addition, a training period was provided during the general membership meeting to familiarize everyone with the SET expectations, provide further instructions and to address any questions or concerns expressed by the membership. On the day of the SET, participants (other than Net Controllers or Senior Observers) were instructed to check-in to a Main Operational Net. Each participant was assigned a number. Each station checking in was to provide the Net Controller their availability, capability, and resource availability. Further directions were given by the Net Controller instructing stations to check into the secondary repeater and report to the Net Controller on that frequency. The secondary repeater Net Controller gathered appropriate information and instructed the stations to move to the simplex frequency. Once on the simplex frequency the stations would receive and transmit their readability and signal strength to the Net Controller. Stations were then instructed to report back to the Main Operational Repeater and check out of the exercise. The last phase of the SET was for those with Winlink capabilities to send a couple of template messages: 1) ICS 213 to provide comment and feedback on how the Mini SET went and 2) Radiogram reporting their readability and signal strength noted on the net (s) checked in. The SET started at 10:00 a.m. and lasted one hour as planned.

Overall Success

- All Net Controllers and Scribes gained experience in giving directions and logging info provided by participants who checked in.
- IC (Incident Command) kept effective control of the overall exercise with the assistance of Senior Observers.
- Participants checked in via voice and followed instructions given by Net Controllers.
- Winlink reports noting Mini Set experience and readability + signal report was sent in by participants.
- Voice radio checks via simplex took place and the reach of the VHF frequency was mapped out.
- The SET went very smooth with all those who participated stating they thought the SET was very successful and a worthwhile exercise.



General Areas to Focus on for Improvement

- Increase regular Winlink practice
- Continued use of regular mini-SETs or pre-SET exercises
- PACKET repeater/node K7KWY-12 was desensitized while voice repeater (.470) was in use. Walker site issues may need to be further refined.
- Develop and utilize other ICS and local forms for message handling and operations
- SET operations to include a written communications plan (ICS 205) – Such plans could evaluate current ECOM resources and should be distributed to the Net Controllers at a minimum
- Need for additional participants to report readability and signal strength by Winlink for better mapping outcomes
- Have all stations provide grid squares when reporting to Net Controller on simplex
- Ensure a strong IC is appointed for each exercise
- Develop instructional packages for Winlink form completion and use

Bottom Line

A-WHAT WAS THE PURPOSE?

1. To familiarize team members with the basic operations necessary in the event of an emergency call-out
2. To provide a basic understanding of individual radios and repeaters in the area
3. To determine an individual's coverage on simplex frequencies
4. To allow net controllers to practice and hone their skills in handling traffic
5. To ensure effective oversight of the SET occurred

B-WHAT WENT WELL?

1. Pre-SET information distributed and presented to all team members before the exercise.
2. SET operation went very smoothly.
3. There was no question of who was in charge of the operation and who would handle any issues that may have surfaced.
4. On-time SET start and finish
5. Net-controllers assigned numbers to check-ins – To improve coordination and Ease of Accountability
6. Two people were assigned to each net frequency – a Net Controller and a Scribe
7. Winlink traffic – 18 messages were received – 10 ICS 213 and 8 radiograms.
8. Data-points acquired for Simplex frequency reach



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December 9, 2023 1000L to 1100L

C-WHAT COULD HAVE GONE BETTER?

1. There is a need to have a higher participant turnout so the Team will have enough members familiar with emergency operations.
2. Winlink customized form/template
3. A greater number of stations need to complete Winlink forms

D-WHAT SHOULD BE CHANGED GOING FORWARD?

Training

1. Monthly (or Semi-monthly) Winlink drill or training before SET
2. Completion of operational SOGs
3. Regular Mini SETs or Pre-SET exercises/tasks
4. Increased complexity of SET, to include message handling
5. SETs with other affiliated agencies
6. Participation in Statewide SETs

Net Control/Station Setup

1. Current roster at each station
2. Station announcement every 10 minutes with situation recap and check-in requests
3. Development of local as well as continued familiarization of statewide Winlink forms

SET Operations Instructional Package

1. Incorporate post SET comments from membership in SETs going forward.
2. Continue earlier distribution of SET instructions to allow for questions/clarifications.
3. Continue to provide face-to-face training on any upcoming SET.

SET Planning Committee

1. Get ideas from different experience level/perspectives and share the planning load
2. Announcement of upcoming SETs on daily rag chew, Thursday La Pine LAN net and Facebook page

December 9, 2023 1000L to 1100L

[illegible]



Communications Log of the Three Voice Nets

Secondary Repeater Net on Spring | NCO = Dick KF7TFC

Mini Set 12/23 Spring Butte Log

Spring Butte Repeater -

2. Dick Coffman kf7tfc Net Control

Opened repeater 1000 local

Checked in w/

1. Walker net control – 5/9 w6fns

3. Simplex net control – 5/9 k7pil

4. w7jst 5/9

5. wb7pse 5/9

6. n6dfw 5/9

7. nc7c 5/9

8. kk7azd – no contact not readable– thought I heard her on walker.

9. aaljw 5/9

10. k7jem 5/9

11. k7fam 5/9

12. kl7kte 5/9

13. kk7mky 5/9

14. kj7vul 5/9

15. kk7mkq 5/9

16. kk7nbq 5/9

17. kk7lxe 5/9

18. n7stl mobile 4/6 – some static

19. kk7nca 5/9

closed station 1045

contacted walker net control to check out.

Dick Coffman - kf7tfc



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December 9, 2023 1000L to 1100L

Communications Log of the Three Voice Nets

COARECT Simplex Net | NCO = Paul K7PIL

COMMUNICATIONS LOG		TASK # 1	DATE PREPARED: 12-9-23 TIME PREPARED: 10:00 AM
FOR OPERATIONAL PERIOD #		TASK NAME: Mini Set	
RADIO OPERATOR NAME PAUL LAMB		STATION I.D. K7PIL (3)	
LOG			
TIME	STATION I.D. FROM TO		SUBJECT
9:55	1 W7FNS	3 K7PIL	59/59
9:56	2 K7TFL	3 K7PIL	59/59
10:00	4 W7JST	3 K7PIL	59/59
10:02	6 N6DFW	3 K7PIL	59/59
10:04	?	3 K7PIL	0/9 UNKNOWN STATION
10:05	7 N07CH	3 K7PIL	59/59
10:11	10 K7JEM	3 K7PIL	59/59
10:12	9 A7ISW	3	59/59
10:13	14 K7VUL	3	59/59 NO COPY @ W7JST STATION Em Power
10:15	11 K7FAM	3	49/59 Em power
10:16	13 K1K7MKY	3	59/59 50
10:17	17 K7LKE	3	59/59
10:19	16 K7NBR	3	59/59 Em power
10:20	15 K1K7MRQ	3	59/59 NO COPY @ W7JST STATION ON HT Swatt
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2023-Dec Mini SET After Action Report ("AAR")

December 9, 2023 1000L to 1100L

Communications Log of the Three Voice Nets

COARECT Simplex Net | NCO = Paul K7PIL

COMMUNICATIONS LOG		TASK # 1	DATE PREPARED: 12-9-23 TIME PREPARED: 10500
FOR OPERATIONAL PERIOD #		TASK NAME: Mini Set	
RADIO OPERATOR NAME PAUL LAMB		STATION I.D. K7PIL	
LOG			
TIME	STATION I.D.		SUBJECT
	FROM	TO	
10:20	14 K3TVUL	3 K7PIL	59/59 HIT 5/3 @ NCTCH STATION
10:26	2 KFTTFL	3	39/39 was 59 @ WJST was 59 @ K7PIL @ 9:56
10:47	18 N7STL	3	49/59 NO COPY @ WJST 5/3 @ NCTCH mobile @ Gilcrest
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2023-Dec Mini SET After Action Report ("AAR")

December 9, 2023 1000L to 1100L

Communications Log of the Three Voice Nets COARECT Simplex Net | NCO = Paul K7PIL

COMMUNICATIONS LOG		TASK #	DATE PREPARED: 12/9/2023 TIME PREPARED: 1000 LOCAL
FOR OPERATIONAL PERIOD #		TASK NAME:	
RADIO OPERATOR NAME <u>JEFF SCOTT</u>		STATION I.D.	
<u>W7JST - SIMPLEX BACK UP</u>		LOG <u>JEFF R/5 @ MY QTH</u>	
TIME	FROM	TO	SUBJECT
	<u>W7JST</u>	<u>NC 145.4</u>	CHECK IN NUMBER <u>4</u> SHARON ①
		<u>WR</u>	YOU ARE <u>5 9</u>
	<u>W7JST</u>	<u>NC 146.4</u>	CHECK IN DICK ②
		<u>53.64</u>	YOU ARE <u>5 9</u>
	<u>W7JST</u>	<u>146.42</u>	CHECK IN PAUL ③
			YOU ARE <u>5 9</u>
		<u>NC14</u>	CLIFF H
		<u>#7</u>	<u>5 8</u>
		<u>KATJEM</u>	DON
		<u>#10</u>	<u>5 9</u>
		<u>AA1JW</u>	JIM
		<u>#9</u>	<u>5 9</u>
		<u>KK7VUL</u>	BOB
		<u>#14</u>	<u>1 3</u>
		<u>K7FAM</u>	FRANK
		<u>#11</u>	<u>4 9</u>
		<u>KK7NHY</u>	
		<u>#13</u>	<u>5 9</u>
		<u>KK7LYE</u>	HOLLY
		<u>#17</u>	<u>4 7</u>
		<u>KK7NBA</u>	MIRE
		<u>#16</u>	<u>5 9</u>
		<u>KK7MKQ</u>	
		<u>#15</u>	ALAN <u>1 1</u> UNREADABLE
		<u>KK7VUL</u>	
		<u>#14</u>	BOB <u>1 1</u> UNREADABLE
		<u>KK7TFC</u>	
		<u>#2</u>	DICK <u>5 9</u>
PAGE ___ OF ___		<u>#12</u> { <u>FLOYD</u> <u>KL7KTE</u>	<u>1 1</u> UNREADABLE ICS 309

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#18 TONY P 1 1 EXTREMELY BROKEN

#6 BEV NGDFW ?

#5 CLIFF N 5 9

#19 KK7NCA UNREADABLE

#8 KK7AZD

COARECT 2023-Dec Mini SET



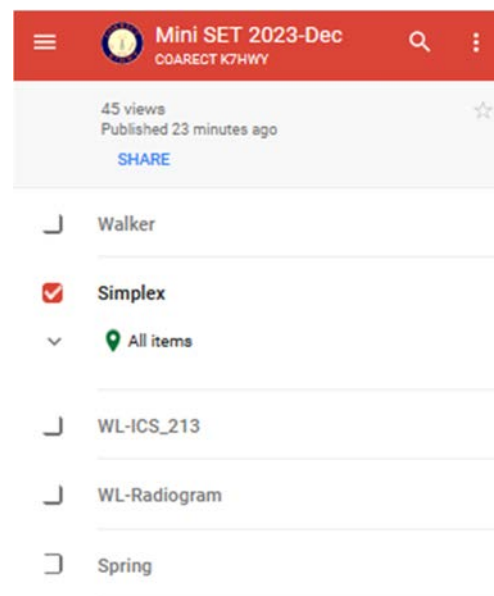
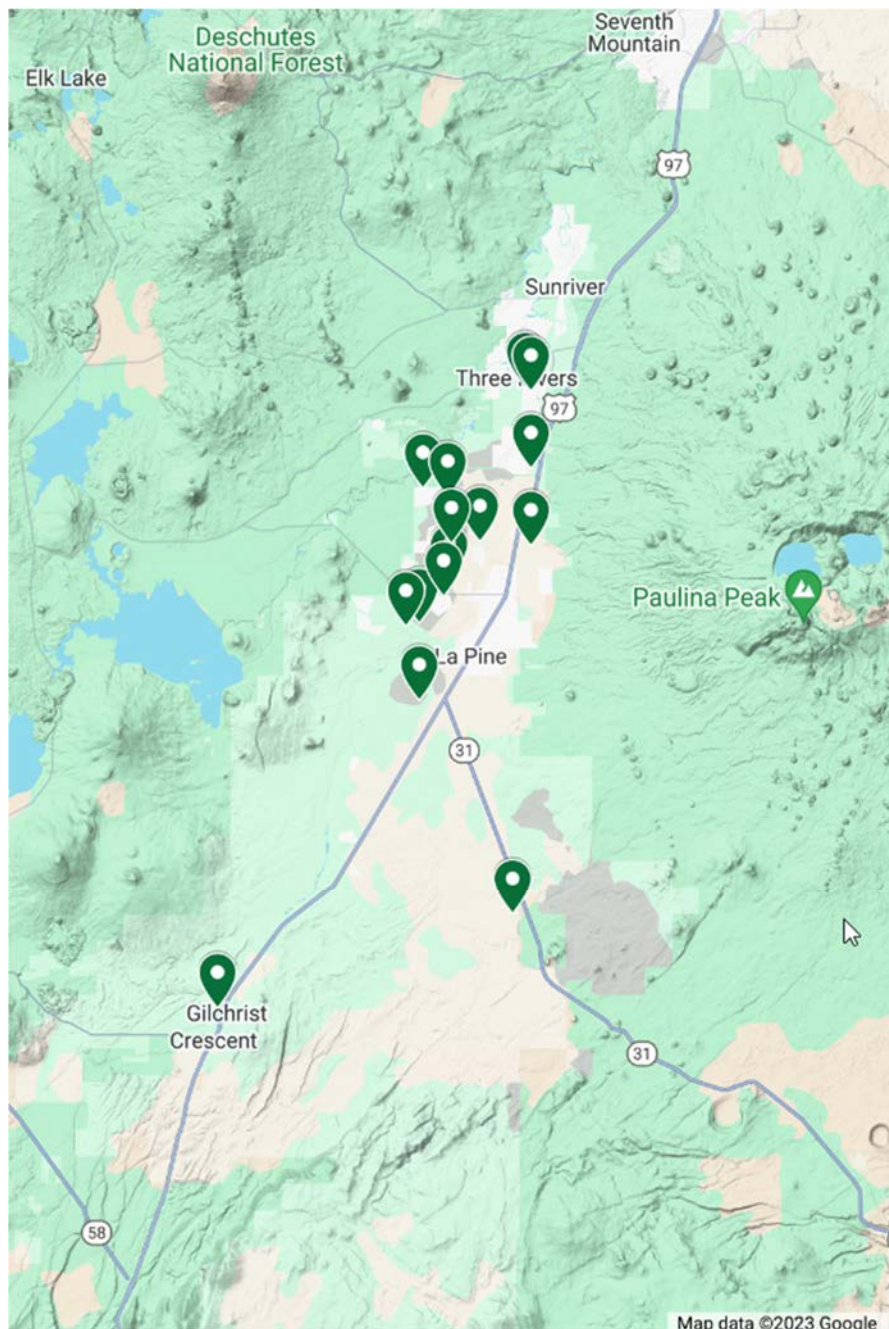
Winlink Net
NCO = Cyndi KK7AZD

K7HWY received **10** ICS-213 General Messages and **8** Radiograms.

	Message ID	Date-Time	Subject	From
1	9SXZ12MO9132	12/8/2023 21:23	213-Coarect 2023-DEC Mini SET-Winlink net - 2023-12-09 10:00	K7PIL
2	D8M88U2WKR8K	12/9/2023 18:22	213-COARECT 2023 DEC MINI SET-Winlink Net - 2023-12-09 10:19	KK7JEM
3	804M9HU1ZZ9M	12/9/2023 18:22	213-COARECT 2023-DEC Mini SET-Winlink Net - 2023-12-09 10:15	KK7AZD
4	YYVD69LRFAX7	12/9/2023 18:25	213-COARECT 2023-DEC Mini SET-Winlink Net - 2023-05-14 06:50	K7FAM
5	7BCGP83Z6ZST	12/9/2023 18:28	213-coarect 2023 Dec Mini set-Winlink net - 2023-12-09 10:22	KL7KTE
6	4G4BOWEM7RGX	12/9/2023 18:30	213-coarect 2023 dec mini set-Mini SET report - 12/9/2023 1023pst	KK7MKY
7	RLRMQCP8HVSL	12/9/2023 18:44	213-COARECT 2023 DECEMBER MINI SET-Winlink Net - 2023-12-09 10:43	KK7MKQ
8	X8IOW8TH7T4O	12/9/2023 18:54	213-coarect Dec, mini set-MINI SET - 2023-12-09 10:49	NC7CH
9	U4RYV0JZF657	12/9/2023 20:17	213-COARECT 2023 Dec mini set-WINLINK Net - 2023-08-26 12:16	W6FNS
10	3EXYIQBQH9IN	12/9/2023 20:24	COARECT 2023-Dec Mini SET-Winlink Net - 2023-12-09 09:32	W7JST
11	MJZDCXBAA17	12/9/2023 18:36	QTC 1 R CHILOQUIN OR 97624	K7FAM
12	4LAS1D40RR11	12/9/2023 18:37	QTC 1 R CHILOQUIN OR 97624 OR 97624	KK7JEM
13	SWQ3ZA0A8AJD	12/9/2023 18:39	QTC 1 R BEND OR 97707	KK7AZD
14	U0PI6D77LFM5	12/9/2023 18:40	QTC 1 R CHILOQUIN OR 97624	KL7KTE
15	75BZ2IA9MYRZ	12/9/2023 20:25	QTC 1 R BEND OR 97707	W7JST
16	2DGYPY5S001Q	12/9/2023 20:25	QTC 1 R LA PINE OR 97739	W6FNS
17	L9NLRHOLUV9H	12/9/2023 23:44	QTC 1 R CHILOQUIN OR OR 97624	KK7MKQ
18	JGWIQKC0ZXMT	12/11/2023 15:57	QTC 1 R CHILOQUIN OR 97624	K7PIL



Simplex Map



(15)

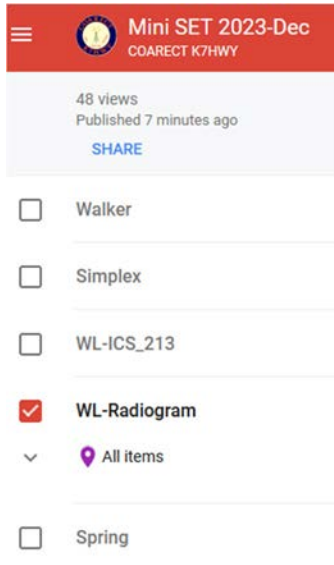
1 W6FNS	7 NC7CH	14 KJ7VUL
2 KF7TFC	9 AA1JW	15 KK7MKQ
3 K7PIL	10 KK7JEM	16 KK7NBQ
4 W7JST	11 K7FAM	17 KK7LXE
6 N6DFW	13 KK7MKY	18 N7STL

Map link:

<https://www.google.com/maps/d/edit?mid=12DbJFA4Lx587R0OcTnBkFfr3CNUgg4M&usp=sharing>



Radiogram Map



(8)

1 W6FNS	10 KK7JEM
3 K7PIL	11 K7FAM
4 W7JST	12 KL7KTE
8 KK7AZD	15 KK7MKQ

Map link:

<https://www.google.com/maps/d/edit?mid=12DbJFA4Lx587R0OcTnBkFfr3CNUgg4M&usp=sharing>

