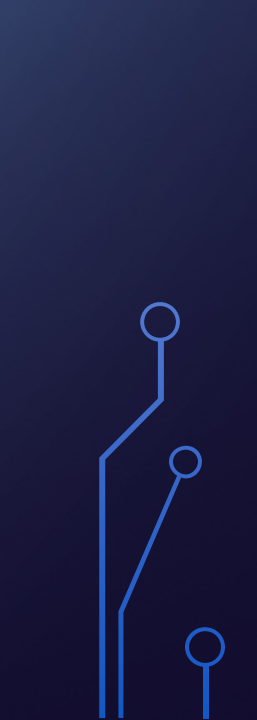# WINLINK 102: BASICS & APPLICATIONS

EMAIL COMMUNICATION VIA INTERNET, VHF/UHF, HF

Timothy S. Takeuchi – W6TST

San Benito County DEC/CRO, VE, ARRL PIO

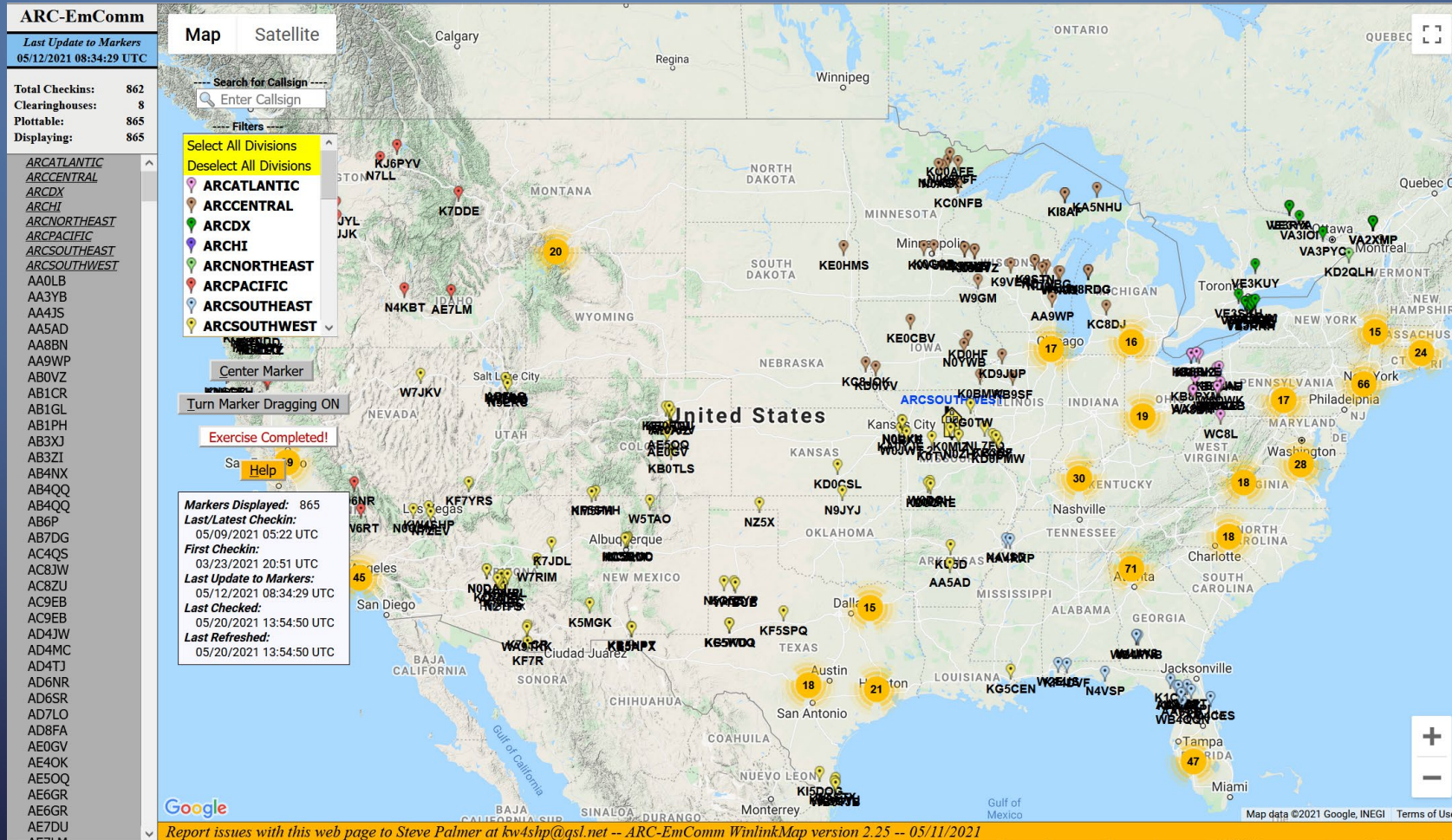American Red Cross DST Volunteer

LEVEL SET

- Winlink is a huge topic

- This is to follow up on a previous Ham Fun presentation

- This is for basics and more information to experiment and have fun with.

- I do not consider myself an expert, but becoming more proficient

- I'm here to share my experiences.

WHY WINLINK?

- Send Email when there is no internet support during emergencies or remote areas (camping, hiking, etc)

- Emergency Ops – Check in w/ status or location

- Practice & Experiment

RED CROSS / ARES EXERCISE – MAY 2021

WHAT IT IS AND WHAT IT IS NOT

- This is still ham radio – Part 97

- This is not a full substitution for email

- Encryption is not legal

- Large attachments is not practical (or polite)

- Privacy is non existent – open airwaves

FAQ / FACTS

- Winlink – Same thing as Winlink 2000, WL2K

- Winlink Express Software – Same as RMS Express

HOW WINLINK WORKS FOR YOU

- Start Winlink Express – Mail Client Software

- Form your messages and requests

- Start a session with your connection method: Telnet, Packet, VARA HF, etc. Telnet automatically refreshes, other methods are manually updated.

- For detailed demo, see my previous presentation at:
  - https://sbcara.org/ham-fun-archive/ Bottom of left column

WHAT CAN YOU DO WITH WINLINK?

- Send Email
  - Check white list (allowed list)
  - Send a picture
  - Send a form

- Send your location - Find your Winlink neighbors

- Send an earthquake report

- Get a weather report

- Get ARES News

CHEAP GPS MODULE ($12-15)

IMAGES

- Add an image using the Attachment feature

  - Limit of 120 Kbytes per email

  - You can use built in features to crop or shrink the image

  - 293 KB cropped and compressed down to 90 KB

WHITE LIST (LIKELY TO BECOME ALLOWED LIST)

- Winlink.org

- My Account

- Whitelist Manager

FORMS

- Check In Form (General)

- ICS Forms

- California OES Forms

- Red Cross Forms

- Set your Favorite Form

MESSAGE – ICS-213

REPORT – ICS-309

COMMUNICATIONS LOG			TASK # Winlink Demo	DATE PREPARED: 07/16/20
				TIME PREPARED: 17:36
OPERATIONAL PERIOD # 07/16/2020			TASK NAME: Test	
RADIO OPERATOR NAME: T. Takeuchi			STATION I.D. N6SBC	
LOG				
TIME	**FROM**	**TO**	**SUBJECT**	
07/15/20 00:18	SERVICE	N6SBC	Password Recovery Address Change Notification	
07/15/20 00:21	N6SBC	W6TST	213-Test Demo-Demo - 7/15/2020 00:20	
07/15/20 00:24	W6TST	N6SBC	Re: 213-Test Demo-Demo - 7/15/2020 00:20	
07/15/20 10:34	N6SBC	CALIFORNIA	CESN Winlink Check In-San Benito County	
07/16/20 12:32	N6SBC	W6TST	Testing 1-2-3	
07/16/20 14:17	W6TST	N6SBC	Test from the Internet	
07/16/20 14:22	N6SBC	W6TST	Re: Test from the Internet	
07/16/20 14:28	N6SBC	W6TST	213-Winlink Demo-Winlink for Emcom Communications - 2020-07-16 14:26	
07/16/20 14:45	W6TST	N6SBC	Re: 213-Winlink Demo-Winlink for Emcom Communications - 2020-07-16 14:26	

Page 1 of 1	ICS 309
	ICS-309 report generated by Winlink Express 1.5.30.0

NETS

- NORCAL WINLINKnet:

NORCAL Weekly Winlink Net Vers 8.1.0 · Form Info

if using a client other than Winlink Express, copy the line below as your check in:

W6TST, Timothy, Hollister, CA, 36.84250,-121.36500, Vara FM Winlink thru KO0OOO

Send check-in to call sign (normally NCALWLINKNET): NCALWLINKNET

☐ Check only if this entry is for an EOC

EOC Name: Only if an EOC · EOC Station Call: ONLY IF AN EOC

Operator Call Sign : W6TST · Operator First Name: Timothy

City: Hollister · State: CA · GPS Coordinates 36.84250,-121.36500
Attached GPS devices need to be configured and working in Winlink Express for automatic coordinate entry. You may enter coordinates manually

Session Type: Vara FM Winlink · Winlink Gateway call sign: KO0OOO · *if used*

VHF/UHF/AREDN Frequency: VHF/UHF Freq · HF/Microwave Band if used: Select

Packet Nodes or *Telnet* AREDN Node Name: Enter nodes/digipeaters

Traffic:

List any Traffic

Submit · Reset Form · Save Check-in data · Load Saved Check-in data

USE THE CATALOG TO REQUEST INFORMATION

- Find your Winlink neighbors

- Send an earthquake report

- Get a weather report

- Get ARRL ARES News

EARTHQUAKE REPORTS

- DYFT (Did You Feel That) Reports – If you felt it or not felt are both useful

- If you didn't feel it, you can skip much of the form

- Address is required in the report

- Sections are optional past about the middle of the form as indicated

- In the comment section, please put a MM (Modified Mercalli Report, i.e. MM4) and copy "SANBENITO" in the message

DEMO

- Outgoing:
  - eMail
  - Picture
  - NorCal Check In
  - Forms
  - Position Report
  - Request Nearby
  - Earthquake Report

- Incoming
  - eMail
  - Picture
  - Forms
  - Position
  - Nearby Stations

GETTING STARTED

- http://winlink.org

- Download the software, register your call sign and emails under settings

- Confirm your email

- Start with TELNET

- Move to VHF/UHF or HF as you desire and your license allows