

## HAWAII ARES WINLINK MAPPING SPECIALIST COURSE

The Hawaii ARES mapping course is intended for Amateur Radio Winlink users to attain expertise in the use of Winlink [RMS Express] and some QGIS mapping features. A limited number of operators (ten) will be invited to participate in the first course. Others who register will be waitlisted for future courses. The course is based on the well-documented procedure developed for CERT Windscreen exercises. The techniques learned apply equally well to other served agencies or events that have developed Winlink templates.

The skills learned will be of value to Amateurs that may use them to provide graphical displays for served agencies or events in their local area. The first Lesson begins **April 24th** and will proceed at the student's desired pace. Each Lesson will be documented with pictures and support text and will have a test to complete before moving to the next Lesson. As soon as the student successfully completes one Lesson test, they will be offered the next Lesson information. Assuming one week per lesson, the course should be completed around mid-June.

Before the first Lesson students **must procure** a GPS dongle for use with their Windows computer. The instructor recommends the following but other less expensive units are probably adequate.

[GlobalSat BU-353-S4 USB GPS Receiver\(Black\) \(Improved-New\)](#)

For example,

[VK-162 G-Mouse USB GPS Dongle](#)

For the first course, lesson 7 requires an ARDEN configured access point that will be provided to each student accepted to the course, courtesy of Hawaii ARES.

“The instructor, John Trinterud (K9ONR) has a background of 55+ years in communications, telephony, computer operations, and UNIX software support. John was first licensed in 2012 as KJ6PAP; now holds a General Class license and graduated from Walnut Creek CERT after 10 years.

John now serves as a Technical Specialist in the ARRL East Bay Division, concentrating on all things Winlink. He covers all phases from initial system designs through configuration, training, and ongoing technical support.”

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**Link to the Sign-up form:** <https://forms.gle/KBFg8mrm6mireukY8>

# Hawaii Winlink Mapping Specialist

Class Sessions conducted by email

Session Number	Topic
Session 1 (Hardware purchase)	GPS unit recommendations, RMS Express GPS setup and configuration, send Position Report to CMS.
Session 2	Add Tactical Callsigns, download and install GIS-enabled CERT message templates, initial Telnet testing.
Session 3	Simulated CERT Field Survey, downloading and caching maps at recipient end (simulated command post), mapping demo of your GPS messages to introduce Session 4.
Session 4	Incident filtering & mapping results in RMS Express.
Session 5	Map export techniques in multiple formats.
Session 6 (Hardware purchase)	Simulated Command Post setup with RMS Express, RMS Relay and re-flashed Wireless Access Point, live testing.
Session 7 (optional)	WoAD and RadioMail apps and configuration for Field Surveys and wireless transfers to command post.
Session 8 (optional)	QGIS interface for EOC, import County shapefiles and basic add delimited text layer settings for Winlink csv files.

For more information about the use of mapping technology in a CERT environment, see John's recent presentation to the Kauai ARES group at

[Walnut Creek Presentation to Maui Civil Defense - 04/21/2023](#)