

CODAR SeaSonde® Basic Training Event - Fall 2023

5-8 December 2023

CODAR HQ 1914 Plymouth Street, Mountain View, California 94043 USA



Agenda

Tuesday 5 December 2023

9:30 am – 4:30 pm

Day 1: Overview - Technology, Software, Hardware

Course Overview, Introductions
CODAR HQ Tour
HF Radar & CODAR SeaSonde Overview
SeaSonde Principles of Operation
SeaSonde Site Selection

Lunch (hosted by CODAR) 12-1 pm

SeaSonde Hardware Overview - Receiver, Transmitter & Antenna
SeaSonde Software Overview including - new changes, new features in latest Radial Suite Release - R22
Data Processing Flow review/ overview of different data files generated at radar site - R22
Setup and Startup/configuration of a mid-band system: ~13 MHz – demo

Wednesday 6 December 2023

9:30 am – 4:30 pm

Day 2: Hardware Setup, Software and Data processing

Any questions from previous day
Data Processing - spectra and radials processing, hands-on exercise- R22
Setup and Startup/configuration of lower-band (Long Range) system: ~5 MHz - demo
Antenna Pattern Measurements & Processing including demo & hands-on exercise

Lunch (hosted by CODAR) 12-1 pm

How to use Transponder for antenna tests and transponder/receiver bench tests – demo
AutoAPM Software - AISPattern Suite Release 22 - overview, demo and use case
Waves Software & Data Overview, what's new in R22

Thursday 7 December 2023

9:30 am – 4:30 pm

Day 3: Basic Data Analysis, Routine Monitoring, Combine Software & Best Practices

Data Processing: spectra and radials, waves processing - hands-on exercise
SeaDisplay Intro: Create new site map, angseg, theoretical coverage plots - demo
Using SeaDisplay for 1D "radial" vector data analysis/visualization - hands-on exercises
Using SeaSonde Diagnostics for troubleshooting and routine monitoring
Radial Webserver overview for routine site monitoring

Lunch (hosted by CODAR) 12-1 pm

Central Management – Data Combining Station (aka Central Site) & Combine Suite Software Overview
Reprocessing 2D "total" vectors - hands-on exercises
Using SeaDisplay for Site Planning & Combine Data Analysis/visualization – demo
Q & A session - wrap-up

Dinner (hosted by CODAR)

Friday 8 December 2023

9:30 am – 12:00 pm

Day 4: Instructions & Open House/Site Visit

Data Archival Best Practices/Recommendations
Best Practices for Site Preparation/Infrastructure/Install
Best Practices for Routine Site Maintenance
Technical Services
Repeat Hands-on exercises from previous days

End of Official Training Course @ 12 pm

After 12:00 pm

Optional Additional Q&A at CODAR HQ and/or nearby SeaSonde Site Visit