



CODAR Fall 2012 Training Course Agenda

Monday Evening - 10/8/2012

17:30 Meet at the lobby bar of the Monterey Beach Hotel
2600 Sand Dunes Drive, Monterey, California 93940-3838
Phone: 831/394-3321

17:30 - 19:30 Ice Breaker (Happy Hour hosted by CODAR)

Tuesday - 10/9/2012

7:30-9:00 Breakfast (on your own - hotel cafe/restaurant)

9:00-10:00

1.1 Introductions and Course Overview

Brief self-introductions by attendees

Course Overview and logistics

HF Radar and SeaSonde Terminology

What is CODAR Support: How to get answers from CODAR Support

10:00-11:00

1.2 SeaSonde Overview - "What We Make and What is Measured"

Overview and Operation of a SeaSonde HF Radar Network

Differences Between SeaSonde Models -

CODAR Company Overview -

System Hardware Deployments Worldwide -

11:00-11:15 Break

11:15-12:00

1.3 Site Selection Review

Optimizing Performance and Data Quality With Good Site Choices
Environmental Factors
Interference Issues
Frequency Selection and Permits

Lunch

12:00-13:30
(catered lunch)

13:30-14:15

1.4 SeaSonde Release7 Webserver with PC and "web-phone" compatibility

14:15-15:00

1.5 SeaSonde10 Release7 Universal Software Overview

Overview
CODAR Software and File Directory
Documentation - where to Find the Answers
SeaSondeRadialSetup
Property lists
Sentinel
SeaSondeController (Monitor & Standard Controller Menus)
SeaSondeAcquisition
CSPro
Terminal Shell Programs (SpectraAnalysis Suite)
Archivalist

Break

15:00-15:15

15:15-16:00 **ON THE BEACH**

1.6 System Setup, Startup and Checks for Proper Operation

Exercise: Setting up a new Dome 13Mhz Combine type SeaSonde antenna
SeaSondeController (Transmit Monitor & Advanced Controller Menu)
Sentinel (Status Window Checks)
Terminal Window (Error Message Checks)
Automated Start-up with Sentinel login

16:00-16:45

1.7 Evaluating Cross Spectra : The Basic Unit of SeaSonde Data

Definition
Description
Characteristic features and differences between systems
Unusual spectra features
Identifying "problem" features
Exercises: Using SpectraPlotterMap to Evaluate Spectra

16:45-17:00

1.8 Simulated Processing and Radial Site Setup Modifications

Dinner

18:00-20:00

“Barbecue Dinner”

(Hosted by CODAR at Monterey Beach Hotel)

Wednesday - 10/10/2012

7:30-9:00 Breakfast (on your own - hotel cafe/restaurant)

9:00-10:00

2.0 Using DiagDisplay for Setting Phases and Troubleshooting

Setting Phases From Sea Echo and Re-Processed CSS Files

Setting Phases From Pattern Measurements

Exercises: Estimating phases and Re-processing Cross Spectra

10:00-11:00AM **ON THE BEACH (ROTATING SESSION)**

Session 2.1: 25MHz SeaSonde Setup, Startup, Checks for Proper Operation & Troubleshooting

Exercise: Setup and startup 5MHz SeaSondes

Evaluate Site for Appropriateness of Wave Measurements

Configuring the Wave Parameters with RadialSiteSetup

11:00-12:00 **ON THE BEACH (ROTATING SESSION)**

Session 2.2: 13MHz Combine-RxTx SeaSonde Setup, Startup, Checks for Proper Operation & Troubleshooting

Exercise: Setup and startup 13MHz SeaSondes

Evaluate Site for Appropriateness of Wave Measurements

Configuring the Wave Parameters with RadialSiteSetup

Lunch

12:00-13:30

(catered lunch)

13:30-15:00PM **ON THE BEACH (ROTATING SESSION)**

Session 2.3: Hardware Overview, APM Setup and Data Collection

Exercise: Conduct Walking APMs for 25MHz SeaSondes

19:00-2100

“Dinner Out in Monterey”

(Hosted by CODAR)

Thursday - 10/11/2012

7:30-9:00 Breakfast (on your own)

9:00-10:00

3.1 Review: Question and Answer Session from Days 1 & 2

RadialSiteSetup

10:00-10:30

3.2 Introduction to First Order Lines

Exercise: Using SpectraPlotterMap to Evaluate/Set First Order Lines

10:30-11:00

3.3 Configuring Wave Software for Wave Processing

System limitations

Evaluating Site for Appropriateness of Wave Measurements

Configuring the Wave Parameters with RadialSiteSetup

Theory of Operation

Using Wave Display

11:00-11:30 -

3.4 Antenna Pattern Measurement Techniques - Review

SeaSondeController (Transponder Controller Menu)

Antenna Pattern Measurement Setup

11:30-12:00

3.5 Timbuktu 8.8.3 (TB2) and Apple Remote Desktop (ARD) for Remote Control

Configuring Mac computers to communicate with Timbuktu

Connecting to a Site a Control Session

Initiating an Exchange Session to Transfer files

Favorite Timbuktu Tricks & Common Problems Encountered

Using ARD and ScreenShare application

Timbuktu Practice (between computers)

Lunch

12:00-13:30

(catered lunch)

13:30-14:15

3.6 Communications and File Transfers -

Combine Site File Transfers

Communications Hardware

Configuring File Transfers

CODAR Ocean Sensors, Ltd. Spring Training Course

Using rsync for command-line transfers

Exercise: Configuring file transfers with FileExchange and rsync

14:15-14:30-

3.7 Release7 Combine Site Software Overview -

SeaDisplaySetup

SeaDisplay

CombineSiteSetup

Sentinel

Terminal Shell

Archivalist

FileExchange

Break

14:30-15:00

15:00-15:45

3.8 Creating Grid Files

SeaDisplay - Release7 for Combine

SDSetup - Release7Release7

CombineSiteSetup

Exercise: Creating Grid Files for Total Vectors

15:45-16:00

3.9 Re-Processing Total Vectors Using Alternative Parameters -

Data Troubleshooting From Total Vectors Backwards to the Problem Source

16:00-16:30

3.10 File Management and Archiving -

How to contact "Support" and what's required

- Screen shots
- Diagnostic files
- Sample data files (compressed)

Configuring Archivalist to Optimize Disk Space

Re-processing Data From Archives

The Importance of Desktop Log Files

- Course Over -