

SeaSonde Radial Suite 10 Release 21

Release 21 is a complete installer for new and existing SeaSondes with USB Receivers running on macOS 10.13 or newer.

Requires a Radial Suite R21 License Certificate

*If you are upgrading from a previous Release, be sure that you first have a license **upgrade** to Release 21 or higher*

macOS 10.14.x requires SIP disabled.

macOS 10.15.x requires latest dot version 10.15.7

macOS 11.6.3 has extra annoying security notices.

macOS 10.13 and 10.14: When upgrading from R8 to R21 special installation instructions apply. Please refer to the R21 installation guide and CODAR's FAQ guide available on support website.

[Read 1_Radial_Install_R21.pdf](#) for detailed instructions.

Run **Install_Radial-Suite-R21** installs the SeaSonde Applications.

Run **SeaSondeRadialSetup** to install new configs and set up the system.

Download **Install_GebcoDB** to install bathymetry for SeaDisplay

Important When Upgrading!

SeaSonde USB Hardware key is no longer used. A new license certificate is required which is tied to the computer that SeaSonde runs on.

What's New: (Also, see Updates below)

64 bit and macOS 10.15 and macOS 11/12 compatible

All applications have been completely rewritten into 64 bit Cocoa. All graphics are now Quartz based (smoother looking)

New Radial Processing

Radial processing tool is now in C++ with improved first order lines.

Distance To Pattern

New metric to remove vectors that don't fit the measured pattern very well. This should remove lots of ionospheric echo and other signals. This value is averaged into the output radials. Increasing values over time will indicate the antenna pattern is drifting.

Independent Wave Processing

Wave processing now runs separately from Radials. This means that waves can use cross spectra with different doppler and averaging times,

Pattern From Spectra

This beta feature will create rough patterns from cross spectra which are better than ideal but will fall short of a true measured pattern. Will also help with better diagnostics about antenna pattern state. Be sure to talk to support if you're interested in this.

SeaDisplay

Completely re-written with many great improvements including new side by side map mode for comparing data.

[macOS 10.15 and macOS 11 Knowledge Base](#)

USB AWG Driver

Is now a user mode dext style driver and will exist in /Applications. Deleting Install_AwgDriver application will also remove the driver. Running Install_ReceiverDrivers in Installations will replace /Applications/Install_AwgDriver

Codar Folder

/Codar folder is now an alias which points to Codar in the new data partition created by macOS. The installer creates the /Codar alias and requires a reboot before it shows. Note that some power users will try to keep older versions by renaming the Codar folder in the data volume, but this will not work as /Codar will still point the renamed folder. All the SeaSonde applications are still using the /Codar paths as these still work because of the alias.

[Release 21 Versions:](#)

[SeaSonde/Apps/Bin/](#)

Dockit 3.0.0

GetVersion 3.0.0

LLUVCutoff 3.1.0

LLUVInterpolator 3.0.3

LLUVMerger 3.1.0

LLUVPointExtractor 4.0.1

LLUVShrink 4.0.0

Prop 3.0.1

RadialFromMetric 3.0.2

RadialSiteReporter 5.0.1
SetCreationDate 4.0.0

SeaSonde/Apps/Installations/

Install_CoastlineDB. 3.0.1
Install_ReceiverDrivers 3.0.1
Install_RadialWebServer 3.0.2
Install_SeaSondeService 3.0.1
SeaSondeKey 4.0.7

SeaSonde/Apps/RadialTools/

Archivalist 13.0.8
DoGpsTimeSyncNow 210321
LostTheDate 210331
SeaSondeAcquisition 12.0.4
SeaSondeController 12.0.0
SeaSondeRadialSetup 12.0.0
SeaSondeRadialSiteCheck 12.0.0
SeaSondeStartupExtras 210501
SeaSondeTransponder 12.0.0
Sentinel 13.0.0
SpectraAverager 3.0.0

SeaSonde/Apps/RadialTools/SpectraProcessing/

Analyze_A_Spectra_For_Pattern
Analyze_A_Spectra_For_Radial
Analyze_A_Spectra_For_Wave
Analyze_Spectra_For_Patterns
Analyze_Spectra_For_Radials
Analyze_Spectra_For_Waves
Analyze_Spectra_For_Patterns.term
Analyze_Spectra_For_Radials.term
Analyze_Spectra_For_Waves.term
CheckForSpectra 13.0.0
CheckRadialSiteConfigs 13.0.0
GetParameter 13.0.0
LLUVCutoff 3.1.0
LLUVInterpolator 3.0.3
LLUVMerger 3.1.0
LLUVMusic 13.4.0
PatternDiagnostic 2.0.0
PatternFromLoop 2.0.1
PatternMakeIdeal 2.0.0
Prop 3.0.1
RadialArchiver 13.0.3
RadialDiagnostic 13.0.0

RadialQueue 3.0.0
SpectraArchiver 13.0.0
SpectraDiagnostic 13.0.0
SpectraPointExtractor 13.0.0
SpectraToWavesModel 11.10.0
WaveModelArchiver 13.2.1
WaveModelFilter 4.0.4
WaveModelForFive 11.8.0

SeaSonde/Apps/Scripts/

Backup_Configs 161027
RadialSiteReporterDisable.app 160520
RadialSiteReporterEnable.app 160520
SeaSondeReports.pl 161128
SeaSondeReportsHigh 161128
SeaSondeReportsMedium 161128
SSCleanOutProcessing 160520
SSMoveCSSforReprocessing 160520
StopSpectraOfflineProcessing 4.0 161112

SeaSonde/Apps/Tools/

CrossLoopPatternner 12.0.4
GPSTracker 12.0.0
GreatCircle 12.3.0
KMLSiteImage 2.0.0
SeaSondeAwgiiiLoader 12.0.1
LLUVtoKML 13.0.0
PATTtoKML 13.0.0
TRAKtoKML 13.0.0

SeaSonde/Apps/Viewers/

DiagDisplay 12.3.0
SeaDisplay 9.0.18
SpectraPlotterMap 13.0.3
WaveDisplay 13.0.1