



SeaSonde Combine Web Server

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Oct 13, 2017

SeaSonde Combine Web Server

This document describes installing, using and configuring the Combine Web Server.

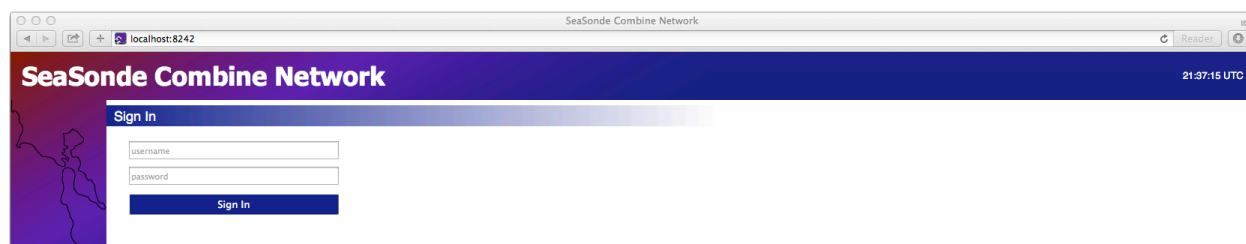
Installation and Access

The SeaSonde Combine Web Server is automatically installed as part of the standard SeaSonde Combine Suite Release 8. Refer to the Combine Suite Release 8 Installation Guide for details.

Access to the Web Server is done entirely through a web browser such as Safari, Chrome, or Firefox. To load the Web Server from the Combine Site, open the preferred web browser and navigate to localhost:8242 by typing it in the address bar. The port number 8242 is always necessary to connect to the correct service.

To access from another computer, it is necessary to know the external IP address or domain name of the Combine Site. Then enter it into the web browser address bar followed by the port number 8242. It will look like xxx.xxx.xxx.xxx:8242 or mycombinesitedomain.org:8242 when entered. It is helpful to bookmark this location or set it as the home page for your browser.

The login form is the first page shown to users:

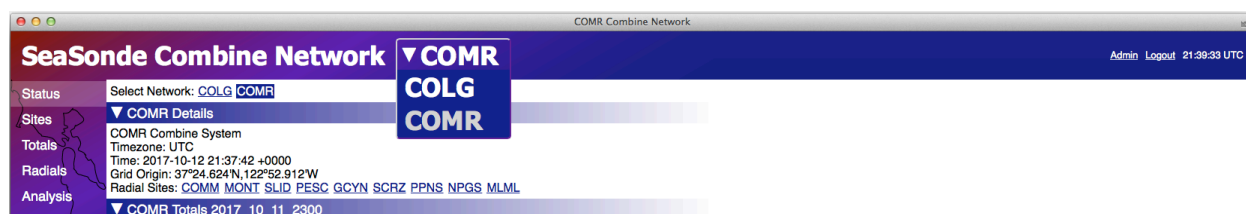


When the Combine Web Server is installed, a default username and password is generated. Please contact CODAR support at support@codar.com for login details. We recommend that customers create a new admin user for the Combine Web Server after setting up their system, which is explained in the admin page section of this document.

Features and Data

Navigation

On every page after logging in, there is a title bar along the top of the page, and a navigation bar along the left side of the page. The left navigation bar includes links for different pages to view combine and radial site data based on the current combine network selected. The current page is highlighted. The four letter site code indicates the current combine network. If a combine site is configured to operate multiple networks of different radial sites, then the site code acts as a pull down menu to select the combine network that the user wishes to view.

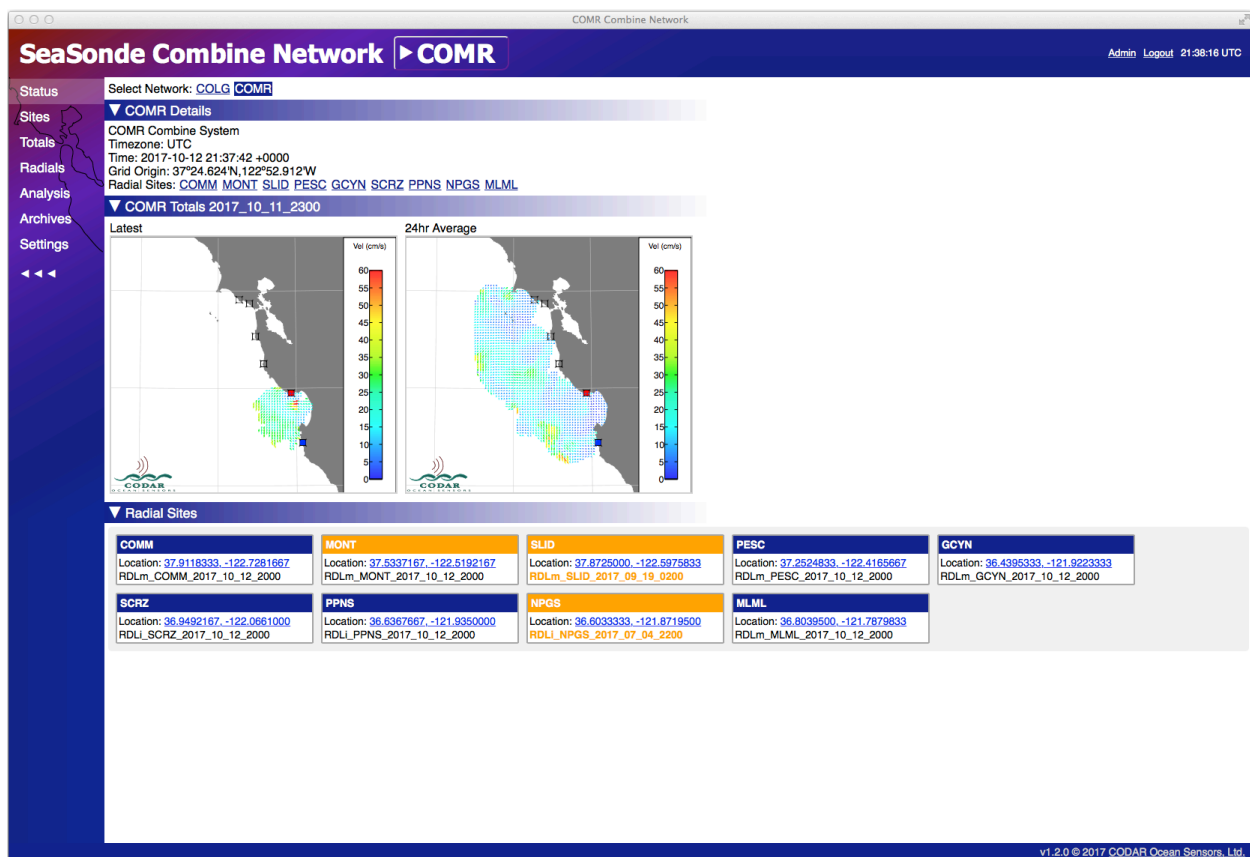


The Admin and Logout links are located on the top right. Note that the Admin page is only available for admin enabled accounts.

Status

After logging in, the default view for the Combine Web Server is the status page. This view contains a lot of information and gives a general overview. If multiple combine networks are configured, they can be switched with the links at the top of this page as well as the pulldown menu.

The details panel gives basic information on the selected combine network. In the totals section, the page shows the latest total vector file as well as an average of the past 24 hours of total vector data. Below that is an overview of the radial sites that contribute to the selected network, including the most recent file received from each radial site. If the radial site box shows as orange, that indicates that the most recent file is not up to date.



Radial Sites

The sites page provides detailed information on each radial site in the combine network. The default view shows a table with radial sites organized by site code on the first column. Radial information is shown as long as data is present, and files will be highlighted in orange if the file is not up to date. Additional system information is available as long as file transfer is configured to send info and alert files from the radial site. Refer to the SeaSonde Combine Configuring File Transfers document for setup details.

COMR Combine Network

SeaSonde Combine Network

COMR

Admin

Logout

21:41:36 UTC

Status

Sites

Totals

Radials

Analysis

Archives

Settings

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Radial Sites

Site	Freq (MHz)	Firmware	Config			Radials				Receiver				Transmitter				Processor				
			Bandwidth (kHz)	GPS Align (µs)	Blanking (µs)	Last File	Pattern	Vectors	Range (km)	Rx Runtime	Rx Temp (°C)	Rx Humidity	Rx Voltage	Tx Pwr (Watts)	VSWR	Tx Temp (°C)	Amp Temp (°C)	Tx Voltage	OS	Runtime	Disk Available	Alerts
COMM	12.19	3.18T	-51.468	2950.0	942.4	10/12_20:00	Measured	195	87.37	3 days	29.8	40%	+5.1V -5.0V +12.2V	56	1.6:1	27.0	31.0	+5.1V +24.4V	10.10.1	21 hours	31GB (7%)	None
MONT	12.19	3.18T	-51.468	100.0	942.4	10/12_20:00	Measured	781	90.28	1 day	33.5	23%	+5.0V -5.0V +12.1V	47	1.3:1	35.0	39.0	+5.1V +27.9V	10.11.6	21 hours	758GB (82%)	Warning
SLID	12.19					09/19_02:20	Measured	534	84.46													
PESC	13.46					10/12_20:00	Measured	811	93.20													
GCYN	12.15					10/12_20:00	Measured	812	87.59													
SCRZ	13.50					10/12_20:00	Ideal	834	78.53													
PPNS	13.47					10/12_20:00	Ideal	580	63.43													
NPGS	12.28					07/04_22:20	Ideal	447	83.94													
MLML	25.40					10/12_20:00	Measured	315	18.90													

Sites: [All](#) [COMR](#)

Include: [Config](#) [Radials](#) [Receiver](#) [Transmitter](#) [Processor](#)

View: [Table](#) [Cards](#)

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By default only the sites configured under the current Combine Network are visible. Selecting the link underneath the table for “All” will show all sites with available data folders. Users can also choose to show or hide certain subsections by selecting or deselecting the “Include” links.

If there are alerts or warnings present in the last column of the table, users can hover over the info cell to view the alert details. Clicking on the site code name will navigate to a detailed report page for that site.

Sites

Totals

Radials

Analysis

Archives

Settings

◀◀◀

	Config					Radials			Receiver				Transmitter				Processor						
	Site	Freq (MHz)	Firmware	Bandwidth (kHz)	GPS Align (µs)	Blanking (µs)	Last File	Pattern	Vectors	Range (km)	Rx Runtime	Rx Temp (°C)	Rx Humidity	Rx Voltage	Tx Pwr (Watts)	VSWR	Tx Temp (°C)	Amp Temp (°C)	Tx Voltage	OS	Runtime	Disk Available	Alerts
	COMM	12.19	3.18T	-51.468	2950.0	942.4	10/12_20:00	Measured	195	87.37	3 days	29.8	48%	+5.1V -5.0V +12.2V	56	1.6:1	27.0	31.0	+5.1V +24.4V	10.10.1	21 hours	31GB (7%)	None
	MONT	12.19	3.18T	-51.468	100.0	942.4	10/12_20:00	Measured	781	90.28	1 day	33.5	23%	+5.0V -5.0V +27.9V	47	1.3:1	35.0	39.0	+5.1V +27.9V	10.11.6	21 hours	758GB (82%)	Warning
	SLID	12.19					09/19_02:20	Measured	534	84.46			GPS Location [Not Stored] (for 7months 4dy 0h 56m).										
	PESC	13.46					10/12_20:00	Measured	811	93.20													
	GCYN	12.15					10/12_20:00	Measured	812	87.59													
	SCRZ	13.50					10/12_20:00	Ideal	834	78.53													
	PPNS	13.47					10/12_20:00	Ideal	580	63.43													
	NPGS	12.28					07/04_22:20	Ideal	447	83.94													
MLML	25.40					10/12_20:00	Measured	315	18.90														

In addition to the table view, an alternate layout is available when selecting the “Cards” view link. This layout may work better when less horizontal screen space is available.

SeaSonde Combine Network

COMR

Admin Logout 21:42:41 UTC

Status

Sites

Totals

Radials

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Archives

Settings

Radial Sites

COMM

Center Freq: 12.189901 MHz
Location: 37.9118333, -122.7281667
Connect: 99.17.203.12

RDLm_COMM_2017_10_12_2000
195 radial vectors in file
87.37 km maximum range

Nothing To Report (for 20hours 53mins).

MONT

Center Freq: 12.189901 MHz
Location: 37.5337167, -122.5192167
Connect: 207.213.216.18

RDLm_MONT_2017_10_12_2000
781 radial vectors in file
90.28 km maximum range

GPS Location [Not Stored] (for 7months 4dy 0h 56m).

SLID

Center Freq: 12.189900 MHz
Location: 37.8725000, -122.5975833

RDLm_SLID_2017_09_19_0200
534 radial vectors in file
84.46 km maximum range

PESC

Center Freq: 13.460000 MHz
Location: 37.2524833, -122.4165667

RDLm_PESC_2017_10_12_2000
811 radial vectors in file
93.20 km maximum range

GCYN

Center Freq: 12.145281 MHz
Location: 36.4395333, -121.9223333

RDLm_GCYN_2017_10_12_2000
812 radial vectors in file
87.59 km maximum range

SCRZ

Center Freq: 13.500000 MHz
Location: 36.9492167, -122.0661000

RDLm_SCRZ_2017_10_12_2000
834 radial vectors in file
78.53 km maximum range

PPNS

Center Freq: 13.466905 MHz
Location: 36.6367667, -121.9350000

RDLm_PPNS_2017_10_12_2000
580 radial vectors in file
63.43 km maximum range

NPGS

Center Freq: 12.275000 MHz
Location: 36.6033333, -121.8719500

RDLm_NPGS_2017_07_04_2200
447 radial vectors in file
83.94 km maximum range

MLML

Center Freq: 25.400000 MHz
Location: 36.8039500, -121.7879833

RDLm_MLML_2017_10_12_2000
315 radial vectors in file
18.90 km maximum range

Sites: All COMR

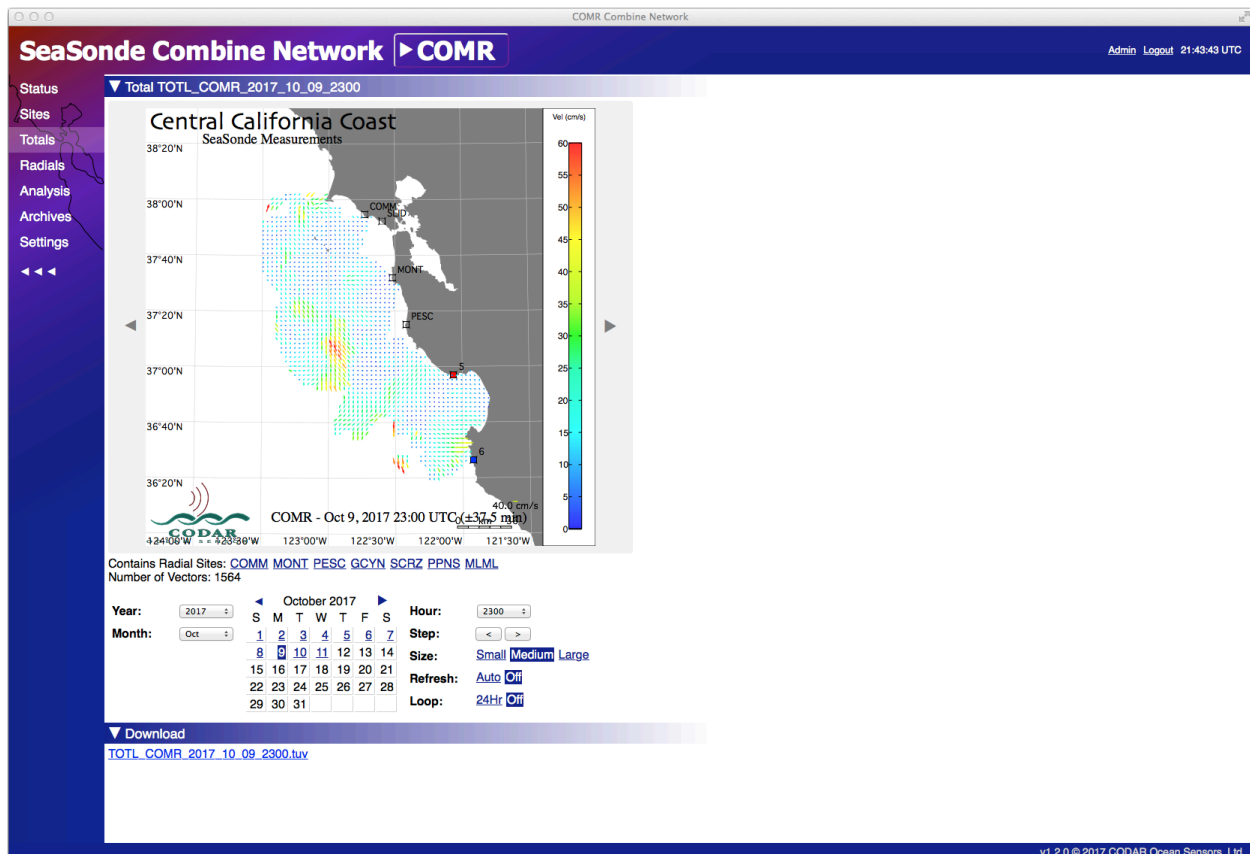
Include: Config Radials Receiver Transmitter Processor

View: Table Cards

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Totals

The totals page provides access to all total vector data available on the Combine Site. The page shows the latest generated total vector image by default for the selected Combine Network. The user can navigate through data using the calendar selector below the image. It is also possible to step through files individually by using the “step” buttons or the arrow buttons on either side of the image.

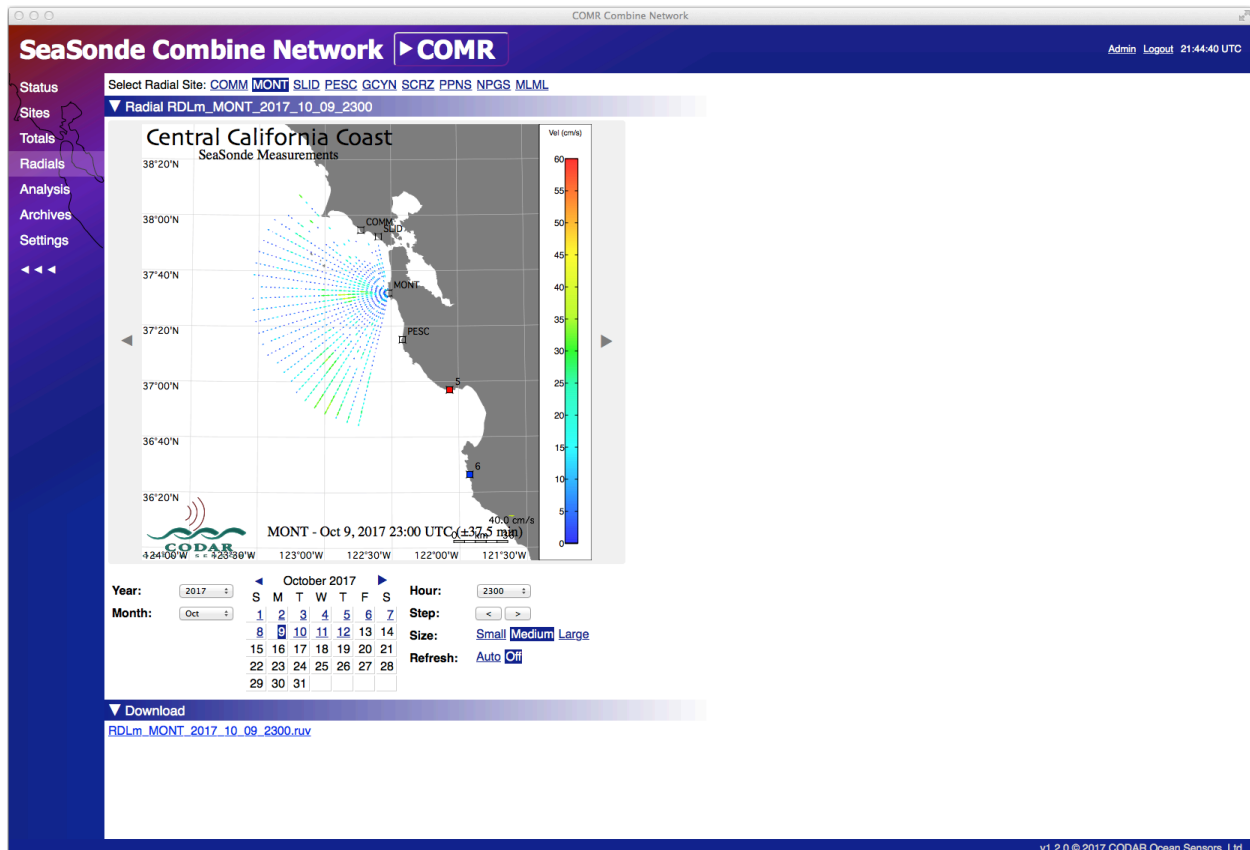


Additional controls can change the image size. The refresh options allow the page to automatically refresh in order to always show the most recent data file. The 24Hr option will loop the image through the latest 24 hours of total vector data.

There is also a download link to save the total vector file that is currently in view. Saving the image itself is possible by simply clicking and dragging the image to the desktop, or right clicking on the image and selecting “Save Image.”

Radials

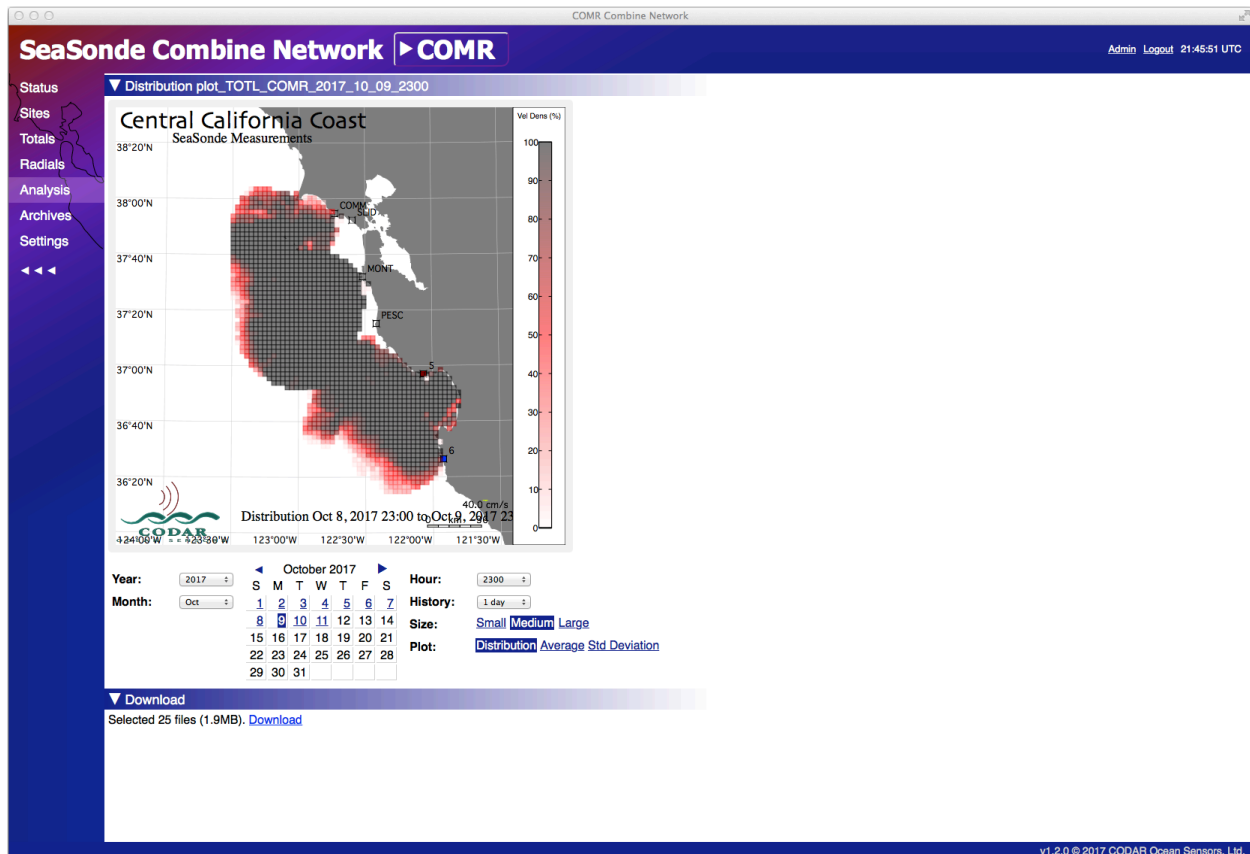
The radials page allows the user to view individual radial site vector data. The desired radial site is selected from the links above the image. Different dates and files can be selected with the calendar selector below. Similar to the totals page, there are image size controls and an option to keep the page automatically refreshed to the latest data.



A download link is also available here to save the currently viewed vector file.

Analysis

The analysis page offers some statistical analysis views of the total vector data. The default view is a vector density distribution plot for the past eight hours. Controls below the image adjust the starting date and hour, as well as the amount of history to include in the distribution. The “Plot” control allows selection of three different data views: The vector density distribution, the vector average, or the vector standard deviation. The history control affects how many hours of data is included in the statistical plot, going back from the selected date and time.



The download link at the bottom of the page includes a compressed folder of all vector files included in the currently selected plot.

Archives

The archives page is useful for downloading large data sets from a remote computer. The available data to download includes total vector files, radial vector files, and config files for the Combine Site. These are chosen with the “Archive Type” links.

The screenshot displays the 'SeaSonde Combine Network' web interface, specifically the 'COMR' section. The left sidebar contains navigation links: Status, Sites, Totals, Radials, Analysis, Archives (highlighted), and Settings. The main content area is titled 'Download File Archive'. It features an 'Archive Type' section with links for 'Totals', 'Radial Sites', and 'Combine Configs'. Below this is a 'Choose the Starting File and Duration' section. The 'Year' is set to 2017, and the 'Month' is set to October. A calendar for October 2017 is shown, with the 11th selected. The 'Hour' is set to 2300, and the 'History' is set to 12 hour. Below the calendar, it states 'Selected 13 files (0.7MB)' and provides a 'Download' link. A list of 13 files is displayed, all with a '.tuv' extension and names starting with 'TOTL_COMR_2017_10_11'. The footer of the page indicates 'v1.2.0 © 2017 QODAR Ocean Sensors, Ltd.'.

SeaSonde Combine Network ► COMR

Admin Logout 21:47:23 UTC

Download File Archive

Archive Type:

[Totals](#) [Radial Sites](#) [Combine Configs](#)

Choose the Starting File and Duration:

Year: 2017 Month: Oct

October 2017

Hour: 2300 History: 12 hour

Selected 13 files (0.7MB). [Download](#)

- TOTL_COMR_2017_10_11_1100.tuv
- TOTL_COMR_2017_10_11_1200.tuv
- TOTL_COMR_2017_10_11_1300.tuv
- TOTL_COMR_2017_10_11_1400.tuv
- TOTL_COMR_2017_10_11_1500.tuv
- TOTL_COMR_2017_10_11_1600.tuv
- TOTL_COMR_2017_10_11_1700.tuv
- TOTL_COMR_2017_10_11_1800.tuv
- TOTL_COMR_2017_10_11_1900.tuv
- TOTL_COMR_2017_10_11_2000.tuv
- TOTL_COMR_2017_10_11_2100.tuv
- TOTL_COMR_2017_10_11_2200.tuv
- TOTL_COMR_2017_10_11_2300.tuv

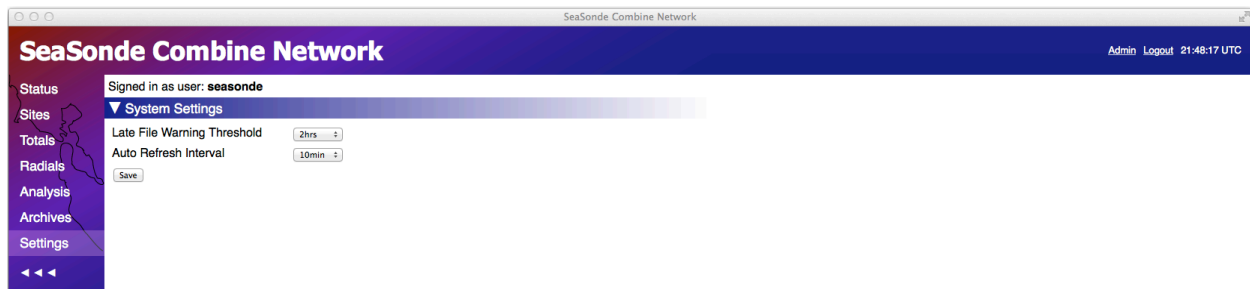
v1.2.0 © 2017 QODAR Ocean Sensors, Ltd.

The data is determined by the date and time selected, as well as the time history chosen. The total file size is displayed upon selection. The download will initiate once the “Download” button is clicked.

Web Server Configuration

Settings

The settings page shows the current logged in user and options to configure the Combine Web Server.



The “Late File Warning Threshold” affects the Sites and Status pages. It determines how late a file must be before it shows as a warning on those pages. Users may want to adjust this depending on how much delay they expect for files transferred from their radial sites.

The “Auto Refresh Interval” affects the Totals and Radials pages when the “Auto” refresh option is selected. This option determines how frequently the page will refresh itself. Combine Sites with lower internet speeds may work better with a less frequent refresh rate.

Admin

The admin page is only accessible if the logged in user has administrator permissions. This page allows admins to create and delete the users who are allowed to log in to the Combine Web Server. The admin page link is located near the top right of the window.

Username	Admin	Delete User
codar	Yes	Delete
seasonde	Yes	

The Create User form allows new users to be created and authenticated for logging into the Combine Web Server. If the Admin checkbox is selected, the user will be able to use the admin page and edit users.

As an admin, it is possible to delete any user except for the one currently logged in. This is done through the user list by clicking the Delete link.

We recommend that new customers replace the default user login with a unique username and password. To do this, first create a new user with the desired username and password and make sure the Admin checkbox is selected. Then click the “Create” button. The new user should show up in the list. Afterwards, log out of the default user and log back in with the newly created username and password. (The Logout link is near the top right of the page). Return to the Admin page and delete the old default username.

Troubleshooting

If any errors occur during use of the Combine Web Server, or it is not working as expected, there are a few steps users can take to determine the issue.

First ensure the Combine Site is configured as intended according to the SeaSonde Combine Suite R8 guides and documentation.

Operational logs for the Combine Web Server are located at:

/Codar/SeaSonde/Logs/CombineWebStatus.log

/Codar/SeaSonde/Logs/CombineWebStatus.log

These may provide information on the error and may be useful when contacting Codar Support by email at support@codar.com.

The Combine Web Server restarts automatically when the computer is rebooted, however it can also be disabled and enabled manually by using the scripts in /Codar/SeaSonde/Apps/Scripts/CombineWebScripts/.

Revision History

Final Oct 13, 2017

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