139.01.IG
Aug 8, 2017

Installation Guide for SeaSonde
on macOS 10.12 (Sierra)

This document outlines the proper method for configuring a Macintosh computer with macOS version 10.12 (Sierra) for use with SeaSonde Radial Suite and Combine Suite. If you purchased your new computer through CODAR, it will already be configured in this manner. If you are configuring a SeaSonde computer on your own, it is critical that you follow these steps for proper system operation and so that we may continue to support your systems in a timely and efficient manner. If you already have macOS installed, then jump to the System Update or System Preferences Modification sections.

Note: This document assumes that you are setting up a new Mac computer with macOS 10.12 or upgrading to macOS 10.12. Most of the steps will apply for previous versions of macOS, but some of the System Preference panes may be slightly different.

New System Configuration

Follow the steps below to configure the computer when first turned on or system has been upgraded.

☐ Turn On your computer. If no user account exists or this is a brand new computer, Sierra will begin initial setup and first asks to select the country desired. CODAR suggests using United States to facilitate remote support.
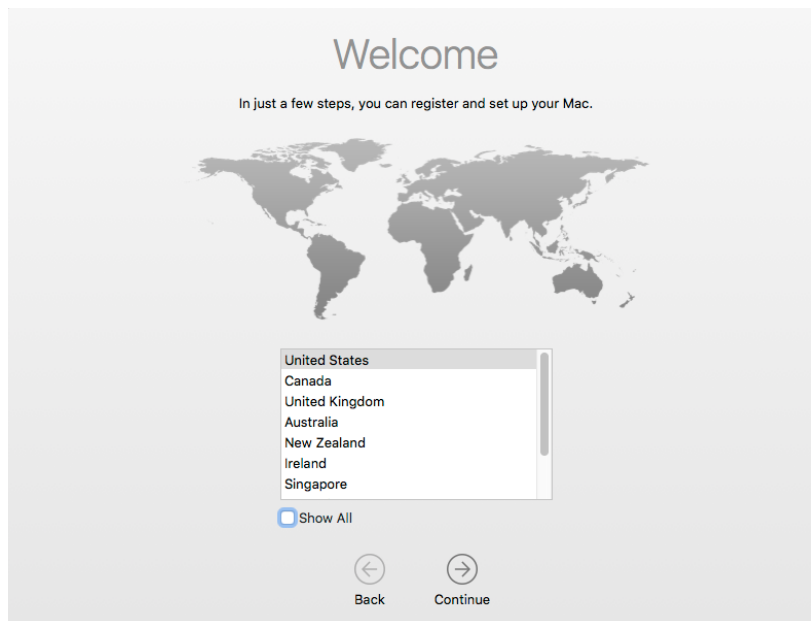

☐ Select the appropriate keyboard and click the 'Continue' button.
Note: Please select a English keyboard. We can't provide effective remote support if your computer is set to use non-English keyboard.
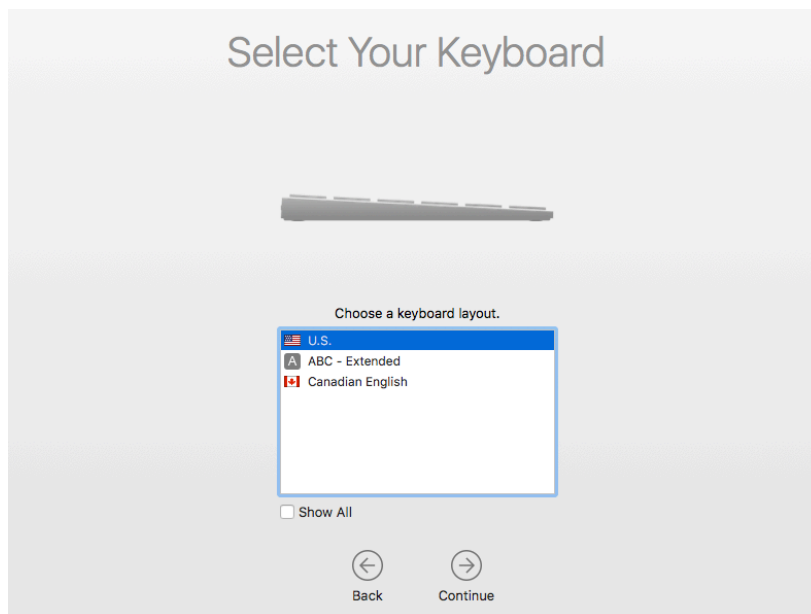
☐ Select the way the computer will connect to the Internet. macOS automatically finds active Wi-Fi connections so this window may not appear if a connection is discovered.
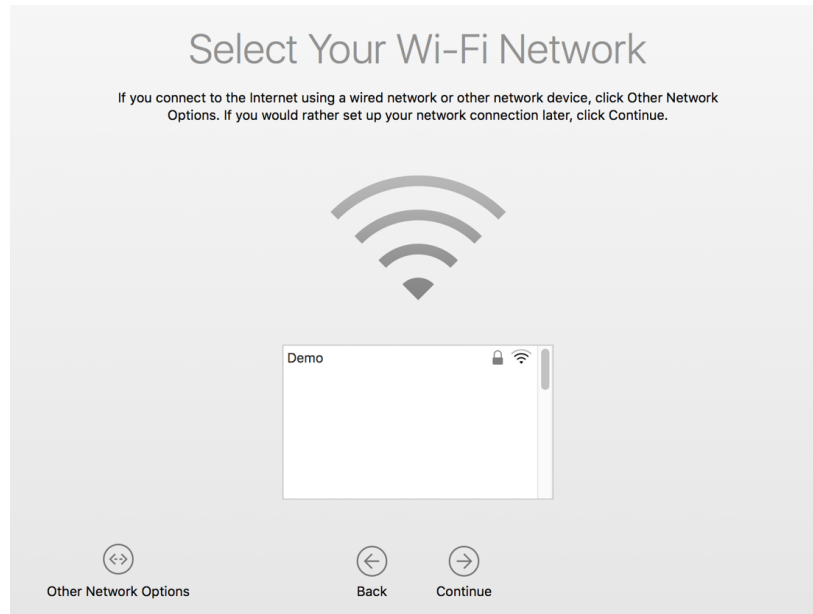

Note: You can skip this step also and select internet connectivity method later. The following window will appear. Select 'Continue'.
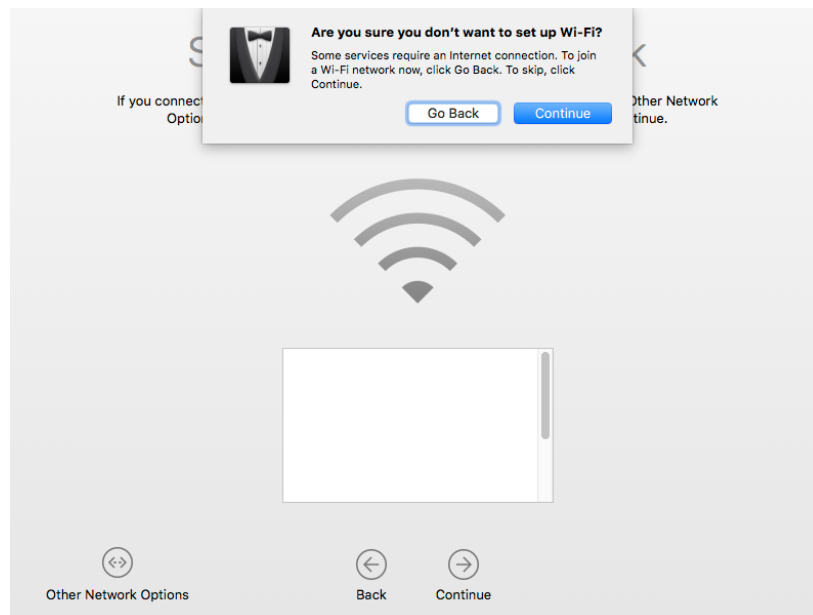
Select the 'Do not transfer my information now' option and click the 'Continue' button.
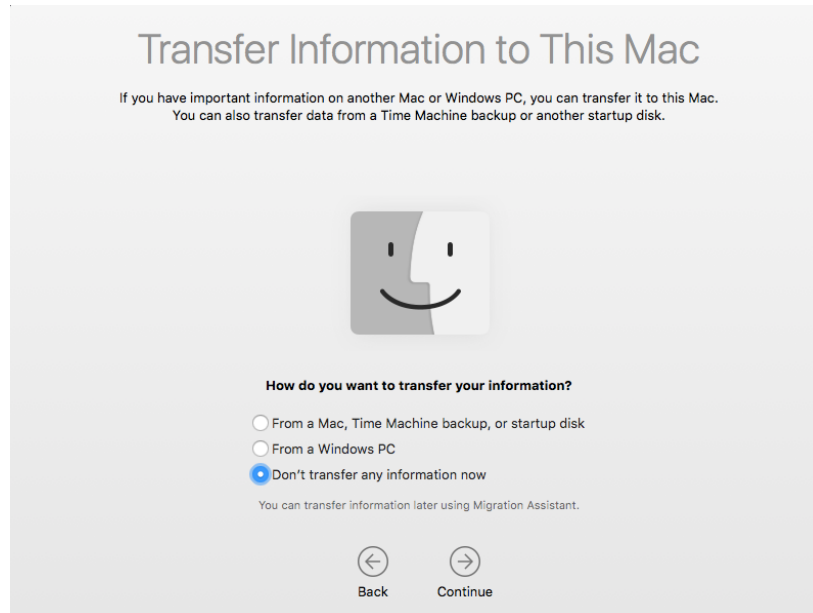
Many recent Mac computers have an embedded feature that allows for location tracking. Codar recommends to keep this feature turned off to avoid incorrect time zone designation during the operation of the SeaSonde systems which can have a negative effect on data collection. **Uncheck** the following selection then click 'Continue'.
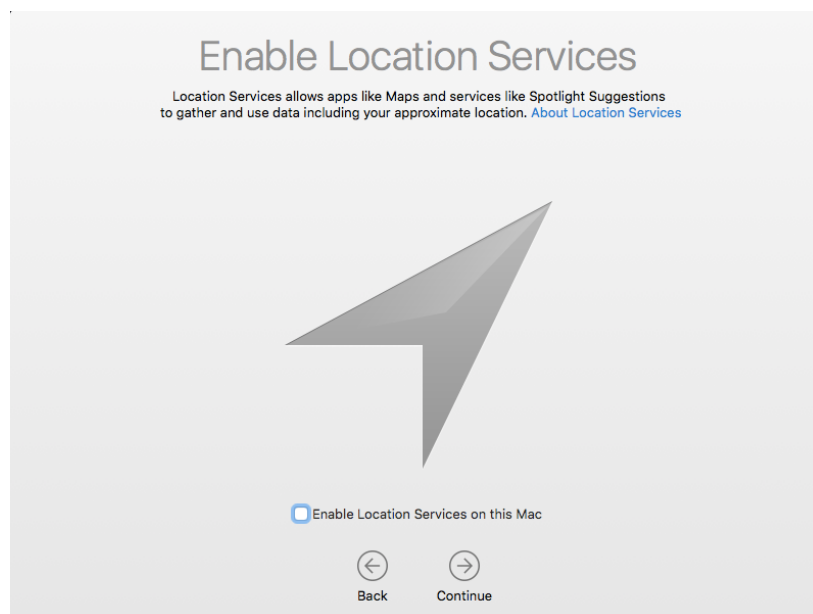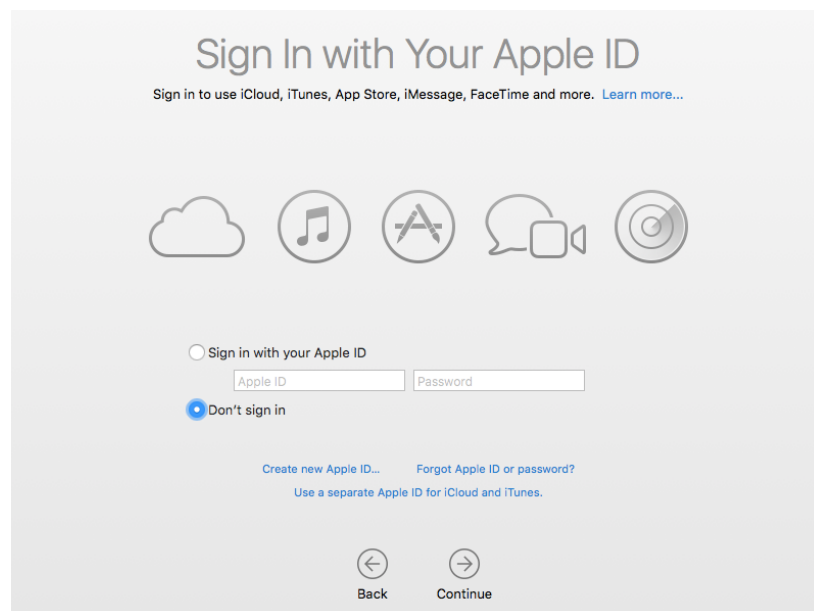
Note: The following pop-up window will appear. Select 'Don't Use' to continue.
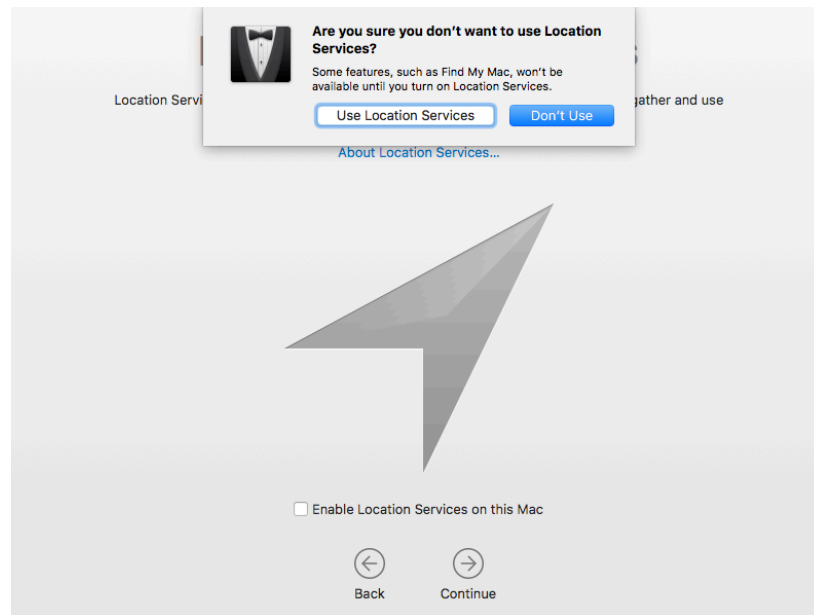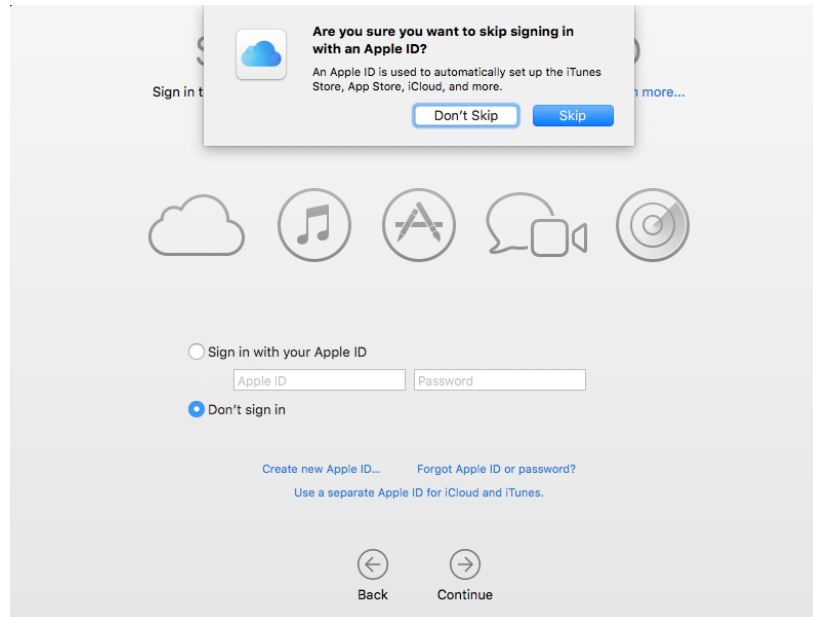

☐ You will be prompted to enter your Apple ID.
Note: AppleID is not required in this setup process. It is only required to update any in-built or third-party Mac Apps which usually doesn't apply in the case of SeaSonde Computer. So, skip this step and select "Don't sign in"
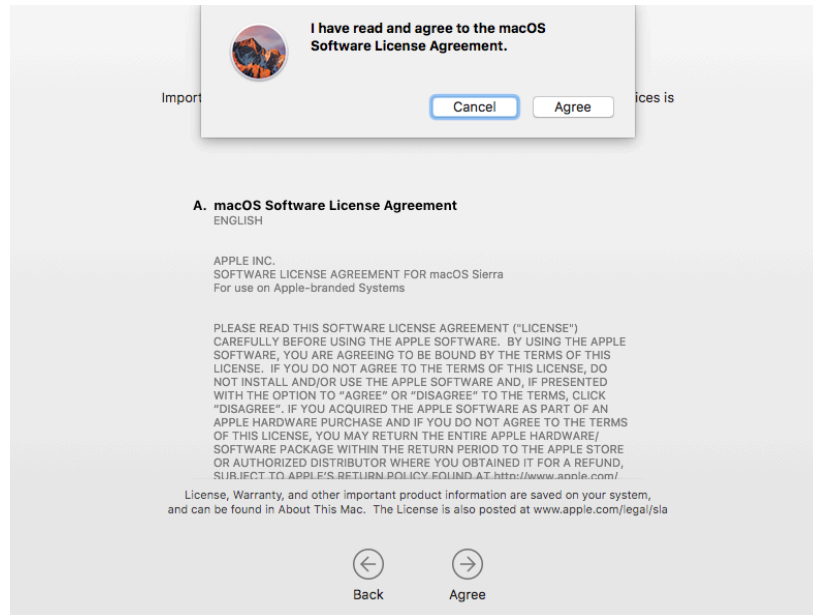
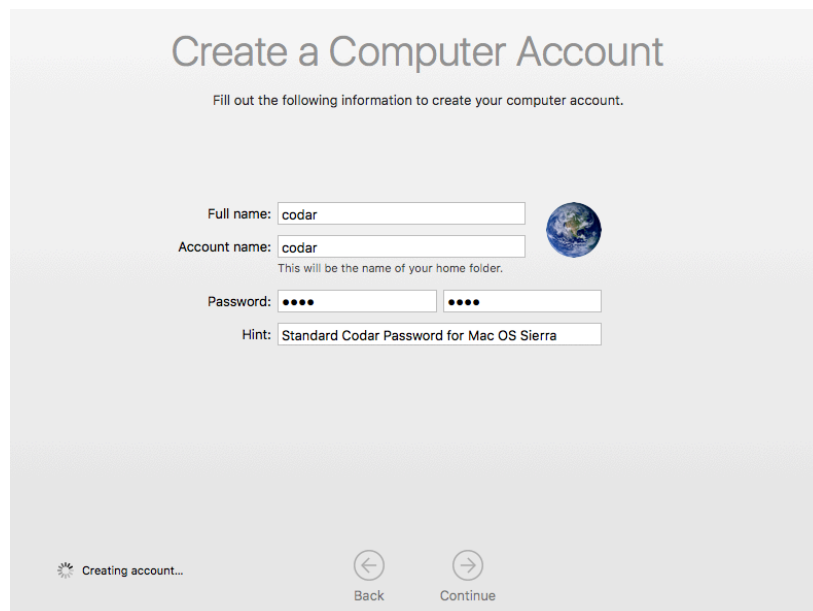**Note:** The following pop-up window will appear. Select 'Skip' to move forward.

Next window explains the Terms and Conditions set forth by Apple for use of their Mac hardware and operating system software. Select 'Agree'.
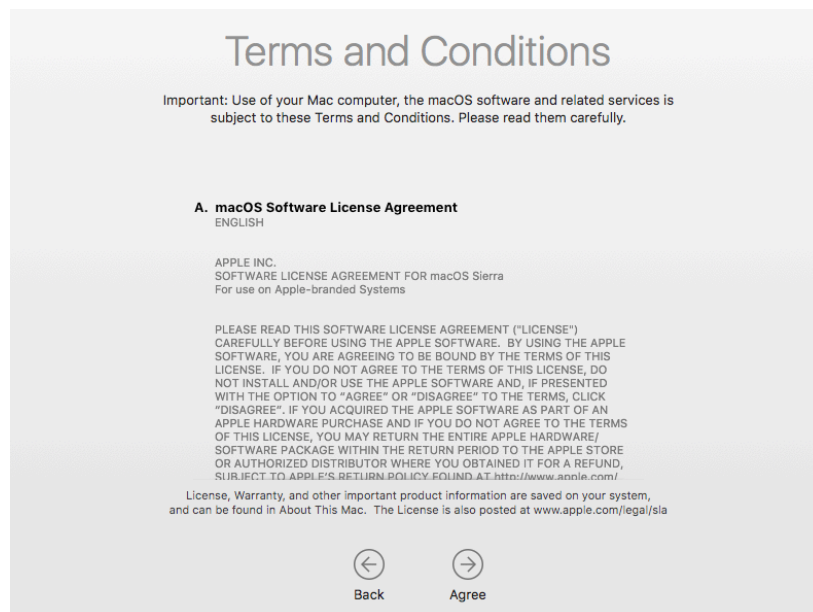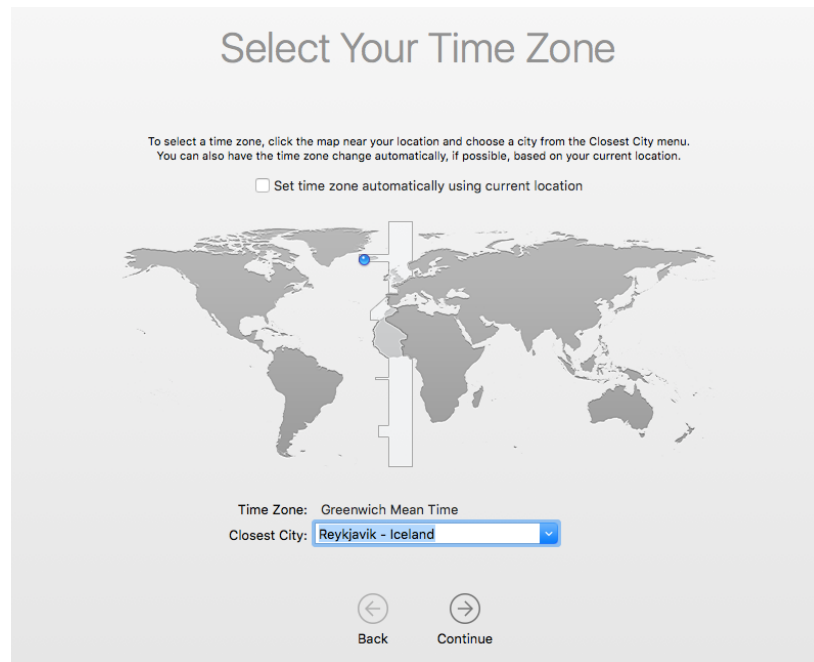
Note: The following pop-up window will appear. Select 'Agree' to move forward.

I have read and agree to the macOS
Software License Agreement.

Cancel   Agree

Import   ices is

A. macOS Software License Agreement
ENGLISH

APPLE INC.
SOFTWARE LICENSE AGREEMENT FOR macOS Sierra
For use on Apple-branded Systems

PLEASE READ THIS SOFTWARE LICENSE AGREEMENT ("LICENSE")
CAREFULLY BEFORE USING THE APPLE SOFTWARE. BY USING THE APPLE
SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS
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NOT INSTALL AND/OR USE THE APPLE SOFTWARE AND, IF PRESENTED
WITH THE OPTION TO "AGREE" OR "DISAGREE" TO THE TERMS, CLICK
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OF THIS LICENSE, YOU MAY RETURN THE ENTIRE APPLE HARDWARE/
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License, Warranty, and other important product information are saved on your system,
and can be found in About This Mac. The License is also posted at www.apple.com/legal/sla
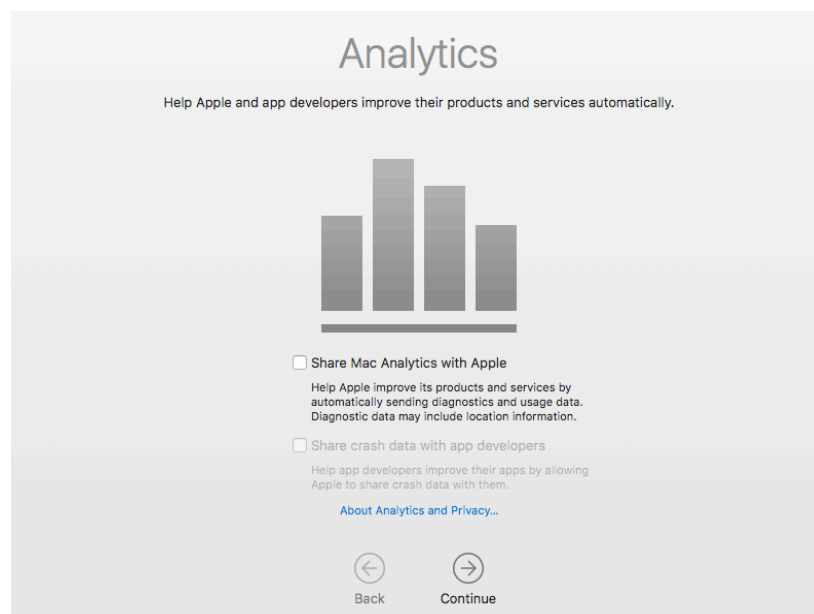
←   →
Back   Agree

When prompted to set up the Primary Administration account, enter "codar" (lowercase) for the account name and nickname and set the password. CODAR Support recommends using the default SeaSonde login password. Verify the password and put in the password hint 'Standard CODAR Password for macOS'.
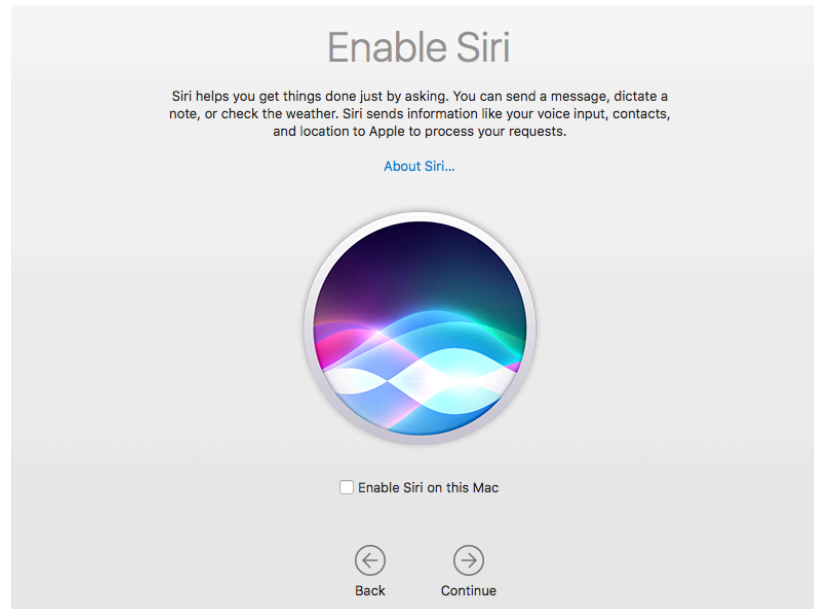
Create a Computer Account

Fill out the following information to create your computer account.

Full name: codar

Account name: codar
This will be the name of your home folder.

Password: ●●●●   ●●●●

Hint: Standard Codar Password for Mac OS Sierra

Creating account...   ←   →
                          Back   Continue

☐ Set the time zone to Greenwich Mean Time as recommended by CODAR. On the global map given on the corresponding window, locate Reykjavik – Iceland. Click 'Continue' when ready. Don't click on Britain as they use daylight savings.

Select Your Time Zone

To select a time zone, click the map near your location and choose a city from the Closest City menu. You can also have the time zone change automatically, if possible, based on your current location.

☐ Set time zone automatically using current location

Time Zone: Greenwich Mean Time

Closest City: Reykjavik - Iceland

← Back   → Continue

☐ For the following Analytics window, **Uncheck** both options then select 'Continue'.

Analytics

Help Apple and app developers improve their products and services automatically.

☐ Share Mac Analytics with Apple

Help Apple improve its products and services by automatically sending diagnostics and usage data. Diagnostic data may include location information.

☐ Share crash data with app developers

Help app developers improve their apps by allowing Apple to share crash data with them.

About Analytics and Privacy...

← Back   → Continue

☐ The next screen will show an option to enable Siri on your computer. **Uncheck** the box for 'Enable Siri on this Mac' and click 'continue'.

Enable Siri

Siri helps you get things done just by asking. You can send a message, dictate a note, or check the weather. Siri sends information like your voice input, contacts, and location to Apple to process your requests.

About Siri...

☐ Enable Siri on this Mac

← Back   → Continue

☐ The computer will now make the necessary customizations. Once finished, the setup will exit and go straight to the Desktop.

Setting Up Your Mac...
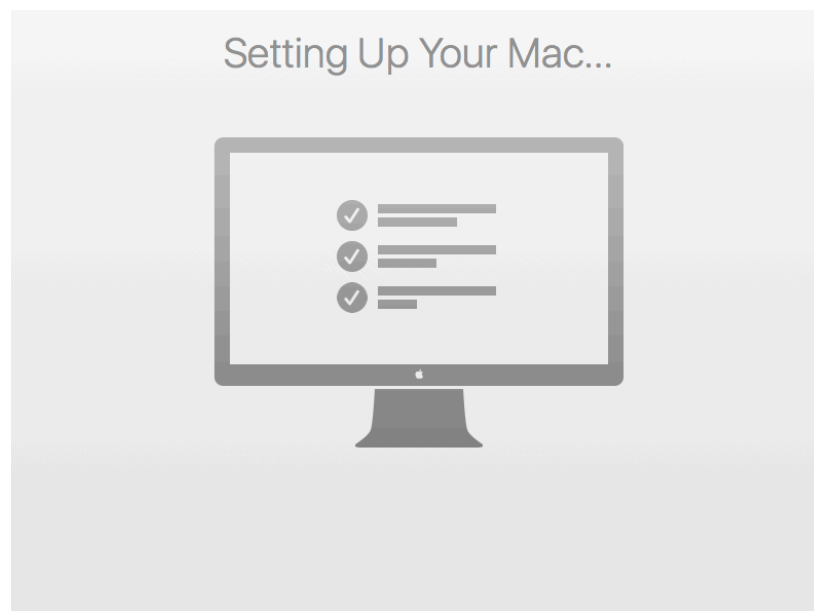
Note: The steps mentioned above, may or may not correspond to the exact order as documented here. The order will vary depending on the type of the computer, if the computer is setup for the first time or if the operating system was simply upgraded from previous macOS versions.

Software Update

☐ Check for Software Updates by clicking the Apple Button on the top left of the screen then selecting 'App Store'. Click on 'Updates' on top right of the newly opened window. If updates are available, window will update to show which updates are currently due for installation.

Note: We recommend installing only macOS updates, security, firmware, and Safari updates because they may not require you to sign-in using AppleID. Updates to other apps are not required and they also may require using AppleID.
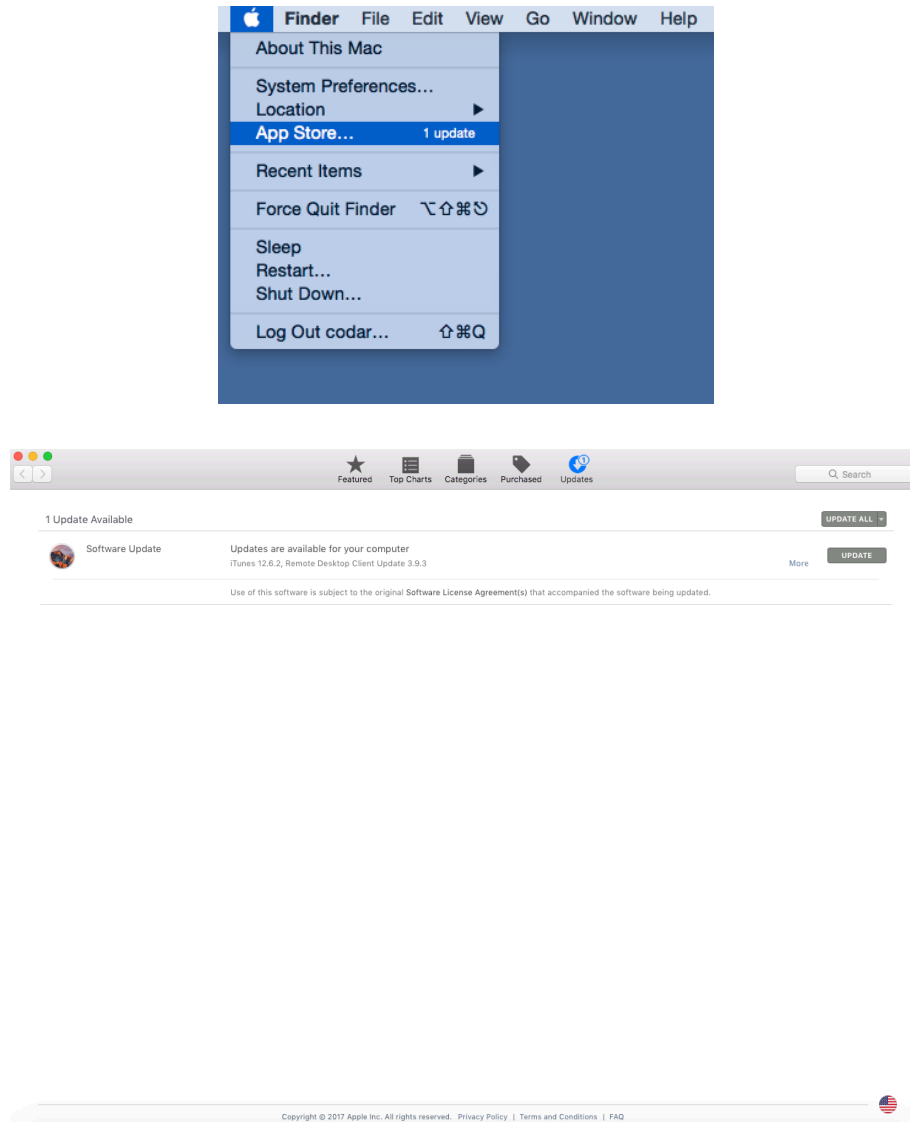
☐ Repeat "Software Update" to look again for further security or macOS updates which might have been dependent on other updates being installed first.

System Preferences Modifications

☐ Open 'System Preferences….' by selecting the option in the Apple menu.
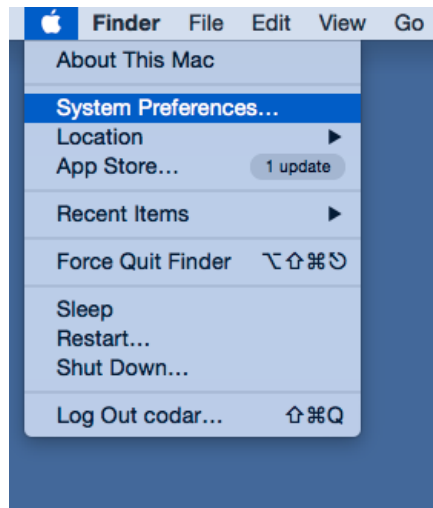
☐ Go to the 'Desktop & Screensaver' pane.

☐ Set Desktop background to Solid Aqua Dark Blue. Do not use a picture as a background as this uses extra bandwidth when using screen sharing over the internet.
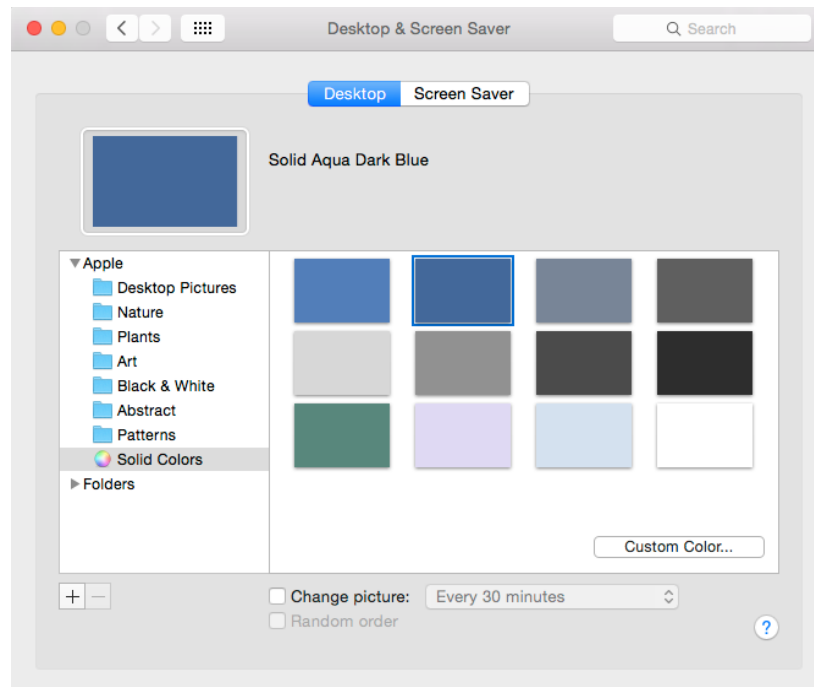
☐ Go to ScreenSaver tab. Set time the screen saver activates to **Never**.
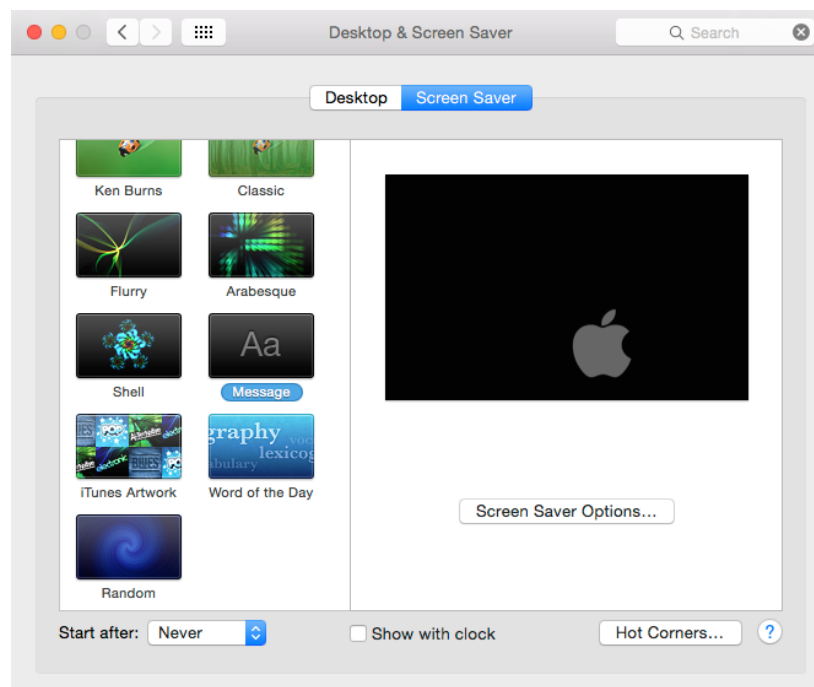
☐ Click the "Show All" Button to return to the top pane in the System Preferences window.

☐ Select the 'Dock' pane.

☐ Set Dock size slider until the Dock icons are about one centimeter size. Configure all settings as shown in image below.
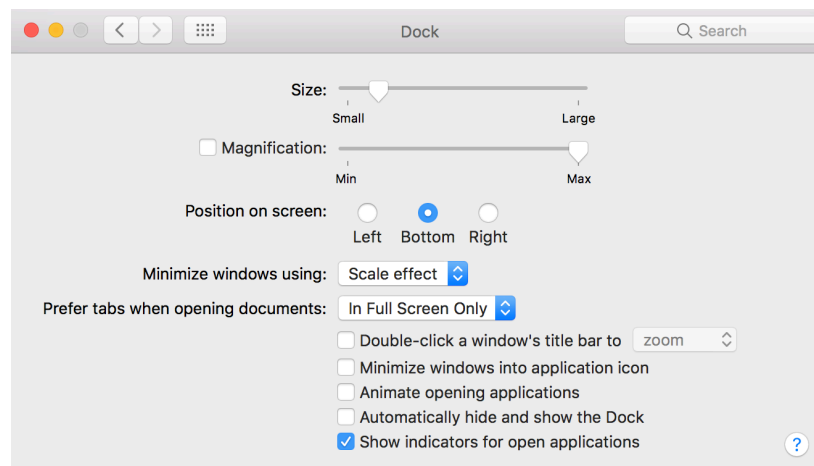
☐ Remove applications/icons from Dock that are not needed. This includes, iTunes, Keynote, Notes, iMessage, FaceTime, iBook, App Store, Photos, Maps, Calendar, Contacts, Numbers, Siri, Reminders and Mail.

☐ Click the "Show All" Button to return to the top pane in the System Preferences window.

☐ Select the 'Mission Control' pane

☐ **Uncheck** all check boxes as shown in the image below.
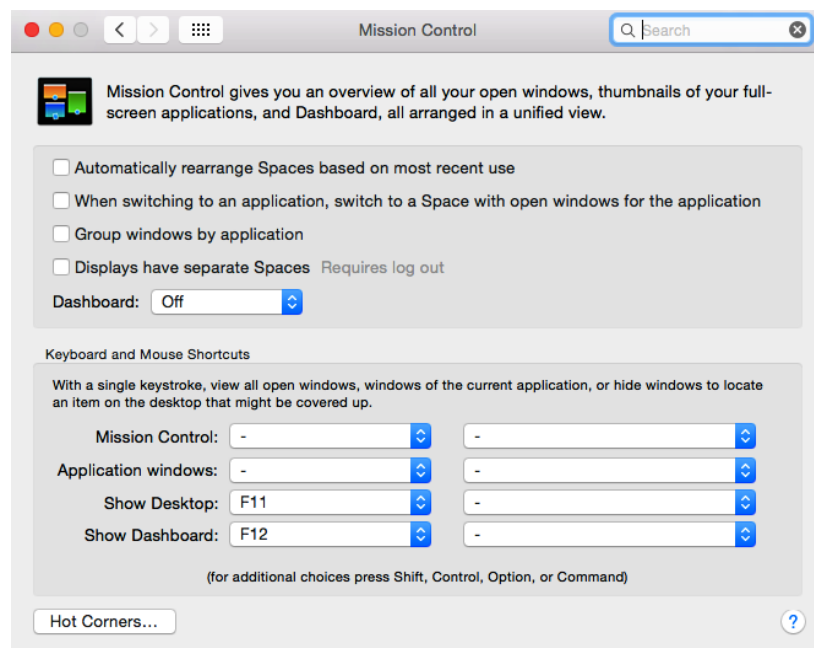
☐ Click the "Show All" Button to return to the top pane in the System Preferences window

☐ Select the 'Security & Privacy' pane.

☐ **Uncheck** "Require password after sleep."

☐ Under "Allow apps downloaded from" menu, select "Mac App Store and Identified developers"
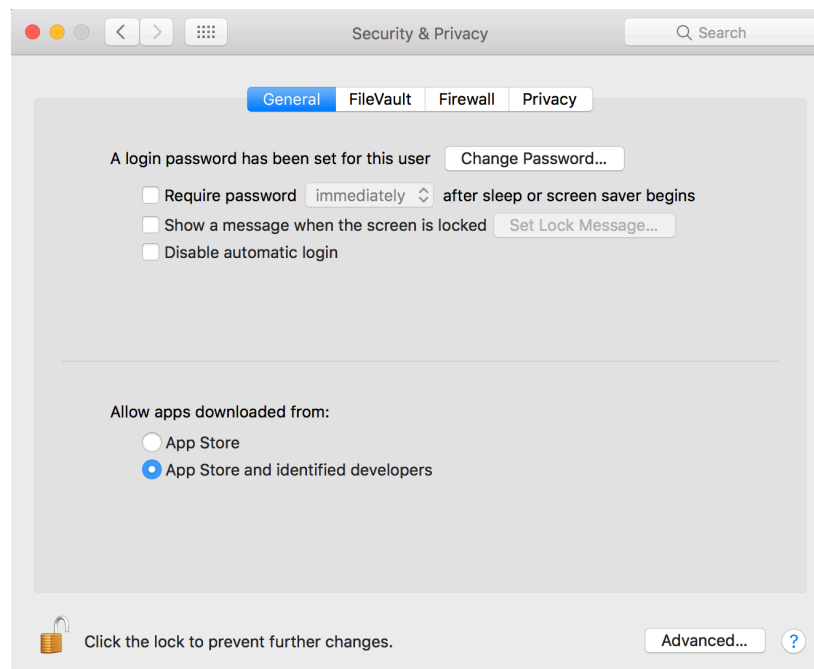
☐ Click Firewall tab and turn ON the Firewall by clicking "Turn On Firewall".
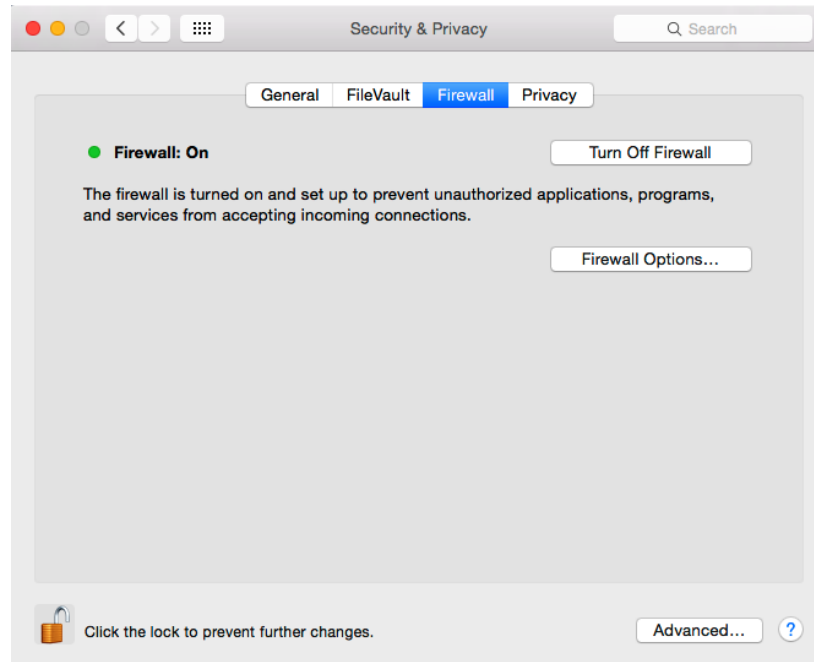
☐ Click 'Firewall Options' button and optionally checkmark "Enable stealth mode." This causes incorrect attempts to login to not receive any response.
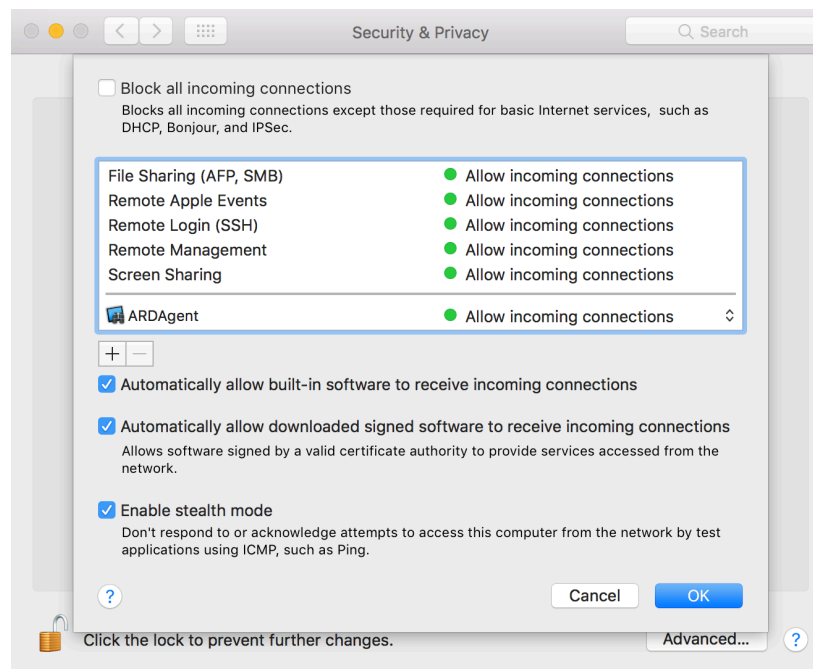
☐ Select OK when finished.

Navigate to the "Privacy" Tab and **uncheck** the box next to "Enable Location Services." This helps to limit use of the internet for the SeaSonde computer which can be helpful for sites with slower internet connection.
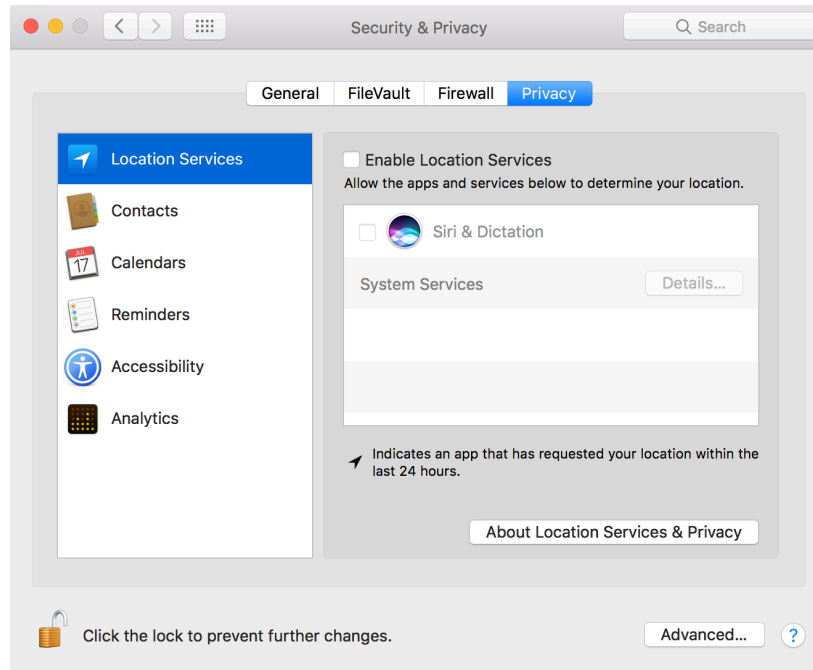
The same needs to be done with the rest of the applications that may be present beneath Location Services. Below is an image showing both checkboxes being **unchecked** for "Diagnostics & Usage"
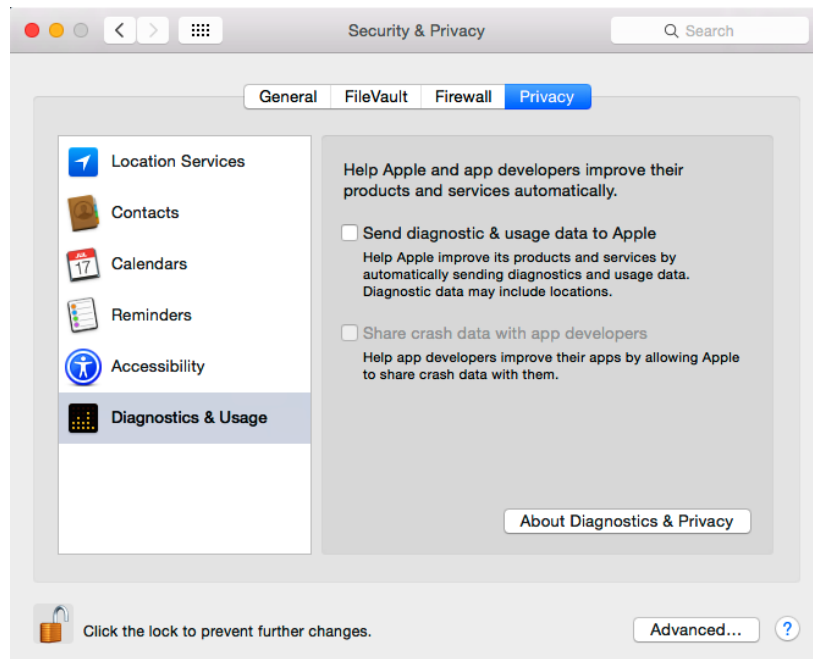
☐ Click the "Show All" Button to return to the top pane in the System Preferences window then select the "Notifications" pane.

☐ Select the 'Notifications' pane.

☐ **Uncheck** all options within the "Do Not Disturb" section.
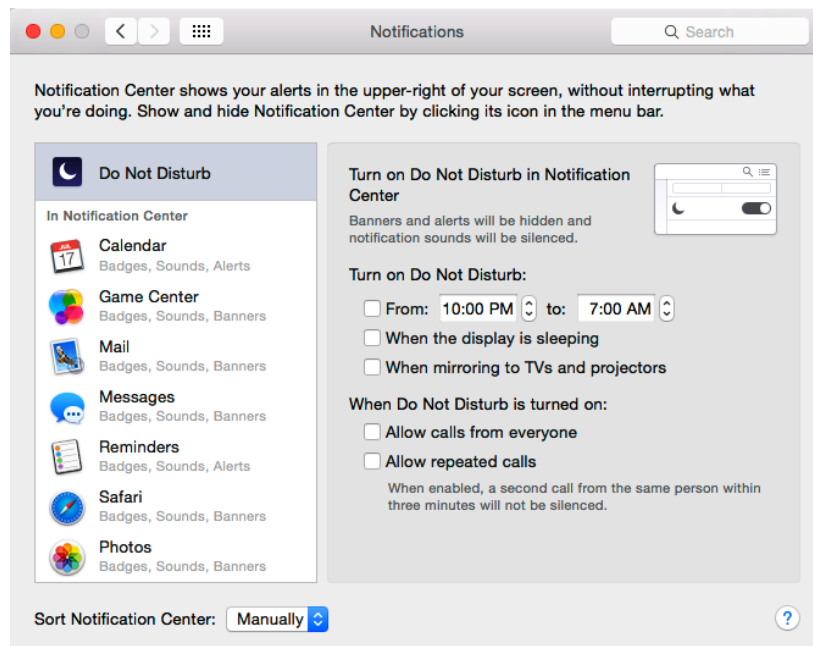
☐ Do the same for the rest of the applications shown under "Do Not Disturb" within the same window pane to the left. Example is shown in image below with Safari Web Browser. Also select the alert style as "None".
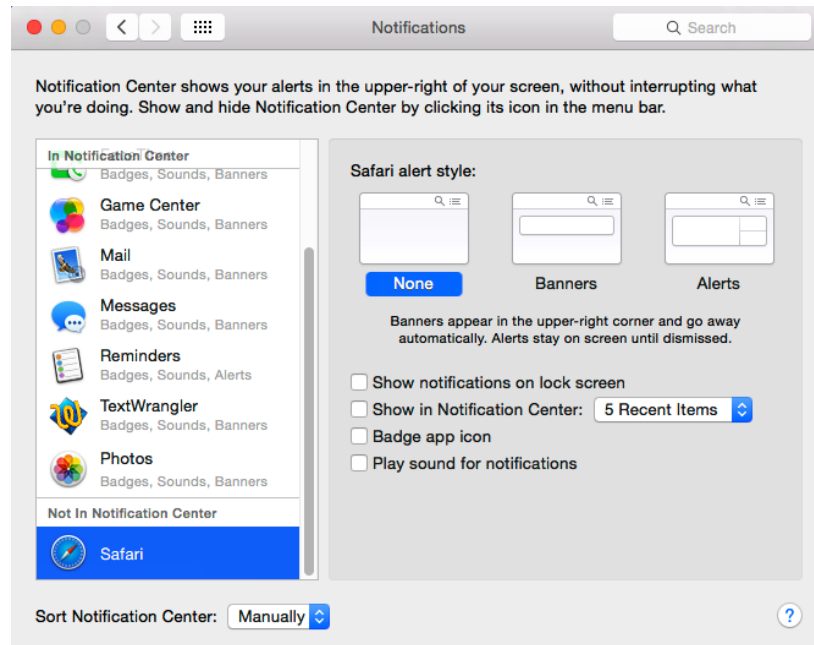
☐ Click the "Show All" Button to return to the top pane in the System Preferences window.

☐ Select the 'Energy Saver' pane.

☐ In the 'Energy Saver' settings set computer sleep to never.

☐ Put the "Turn display off after" slider to 'Never'.

☐ **Uncheck** the "Put the hard disk(s) to sleep when possible"

☐ All settings should look like in image below.

Note: It is important to set the energy saver settings as below. Even if you just put the display to sleep or enable ScreenSaver, that can cause unexpected problems with some apps on macOS. Alternative is to just manually turn off the Display monitor when not in use.
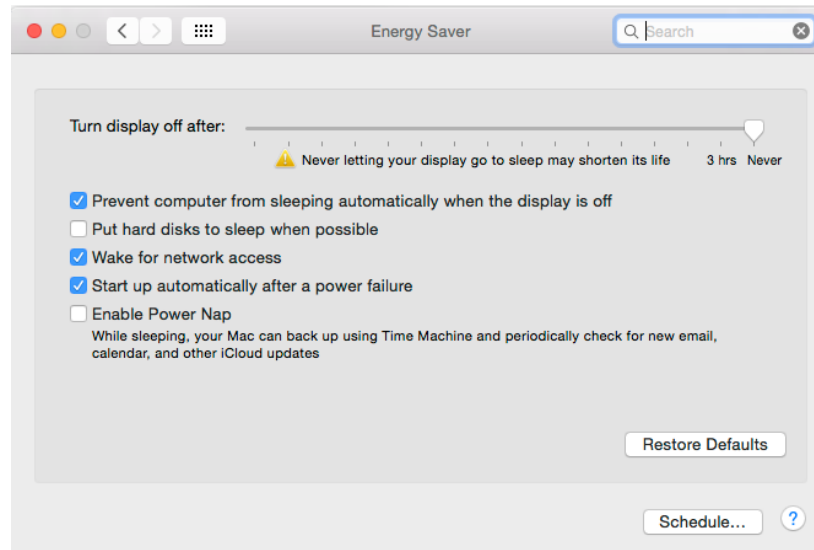
☐ **Check** the "Start up automatically after power failure" box.

☐ Click the "Schedule" button and set the computer to start up everyday at 30 minutes past midnight. If the computer is already running in normal operation this will have no effect. If you have accidentally shut–down the computer via a remote session, the computer will start itself again just after midnight.
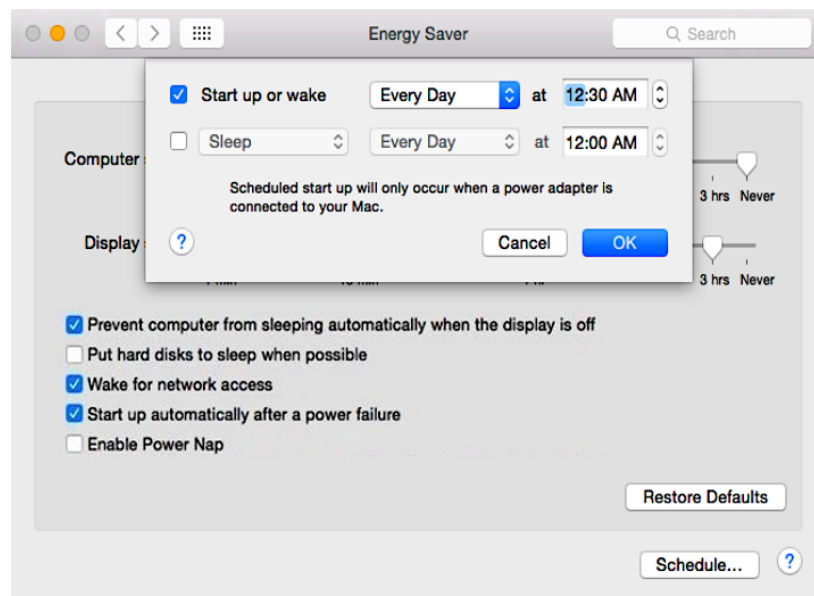
☐ Click the "Show All" Button to return to the top pane in the System Preferences window.
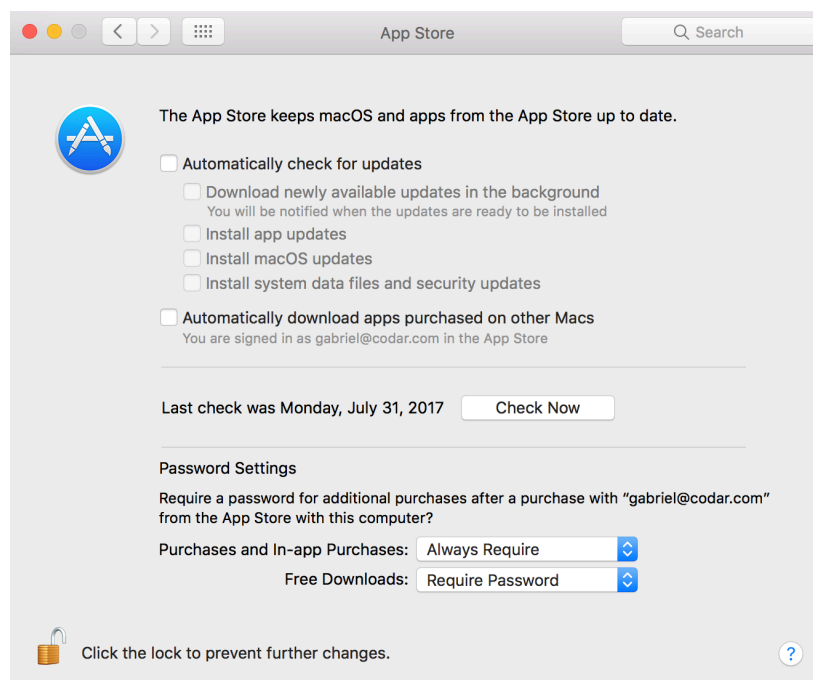
☐ Select the 'Mouse' preference pane.

☐ Select the 'Mouse' preference pane.

☐ **Uncheck** the 'Scroll Direction: Natural' box as shown in the image below.
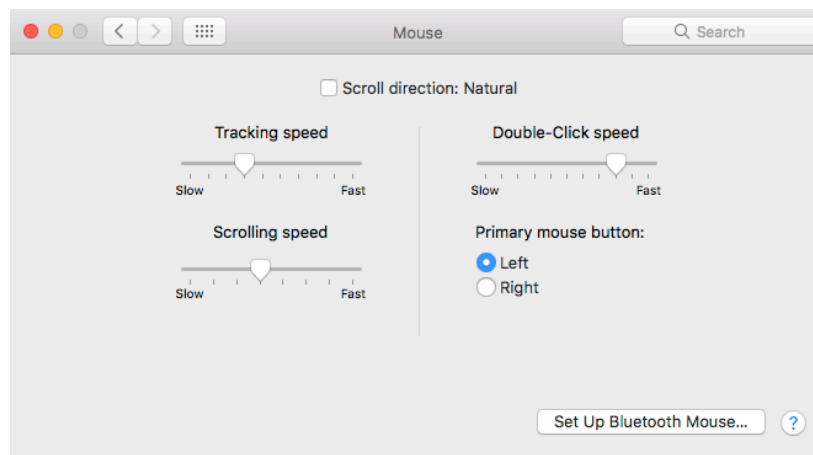
☐ Click the "Show All" Button to return to the top pane in the System Preferences window.
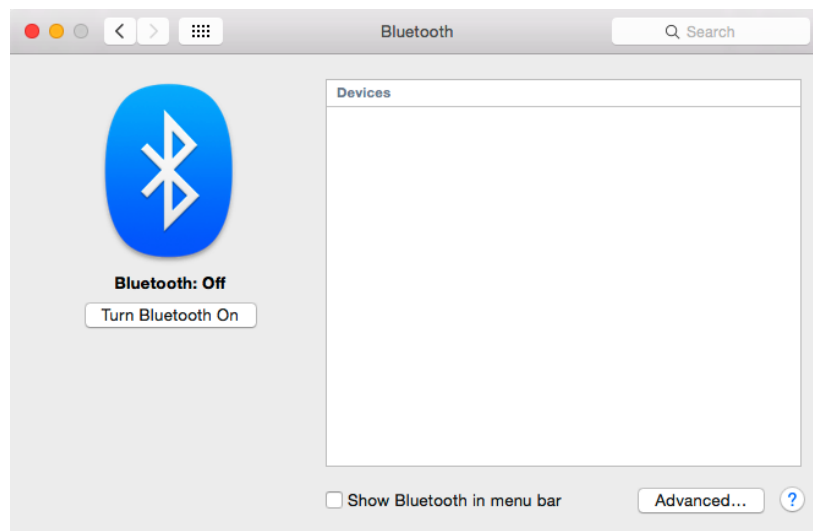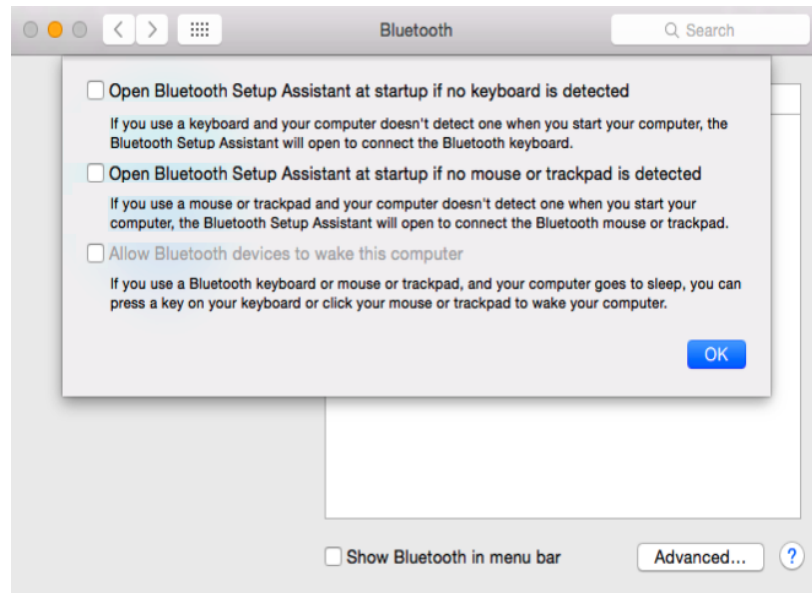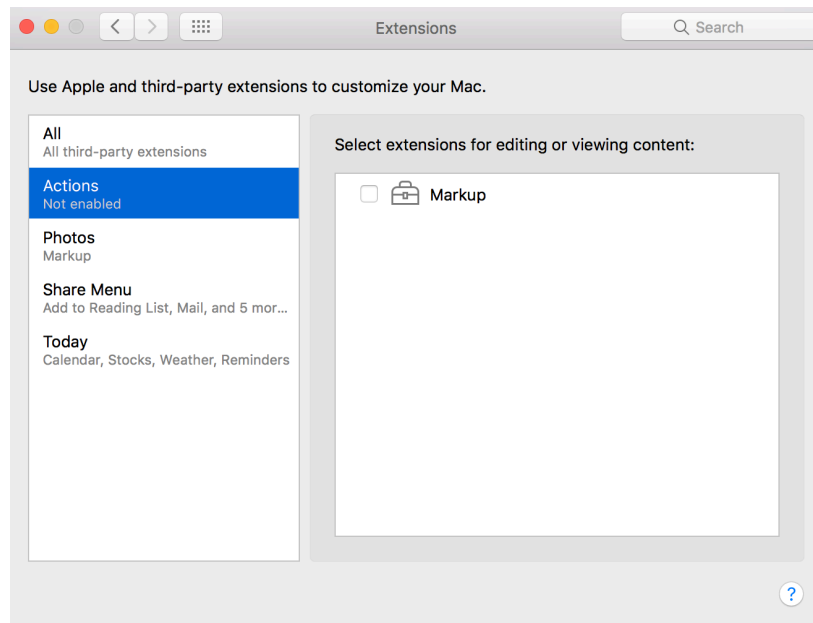
☐ Select the 'App Store' preference pane.

☐ **Uncheck** the "Automatically check for updates" check box. It's still a good idea to periodically get on your sites and manually do any critical security updated.

☐ Click the "Show All" Button to return to the top pane in the System Preferences window

☐ Select the 'Bluetooth' preference pane.

☐ Click on 'Turn Bluetooth Off'.

☐ Now click 'Advanced' and **Uncheck** all the Bluetooth selections. Then click the 'OK' button.

☐ Click the "Show All" Button to return to the top pane in the System Preferences window
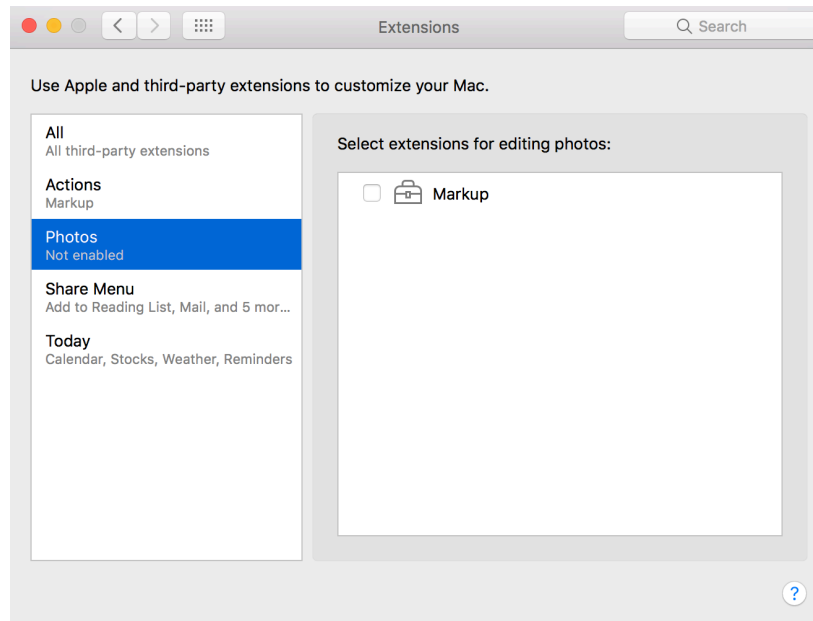
☐ Select the 'Extensions' preference pane.

☐ Under the 'All' tab make sure all boxes are **unchecked** if present.

Extensions

Use Apple and third-party extensions to customize your Mac.

All
All third-party extensions

Actions
Markup

Photos
Markup

Share Menu
Add to Reading List, Mail, and 5 mor...

Today
Calendar, Stocks, Weather, Reminders

You have not installed any extensions.
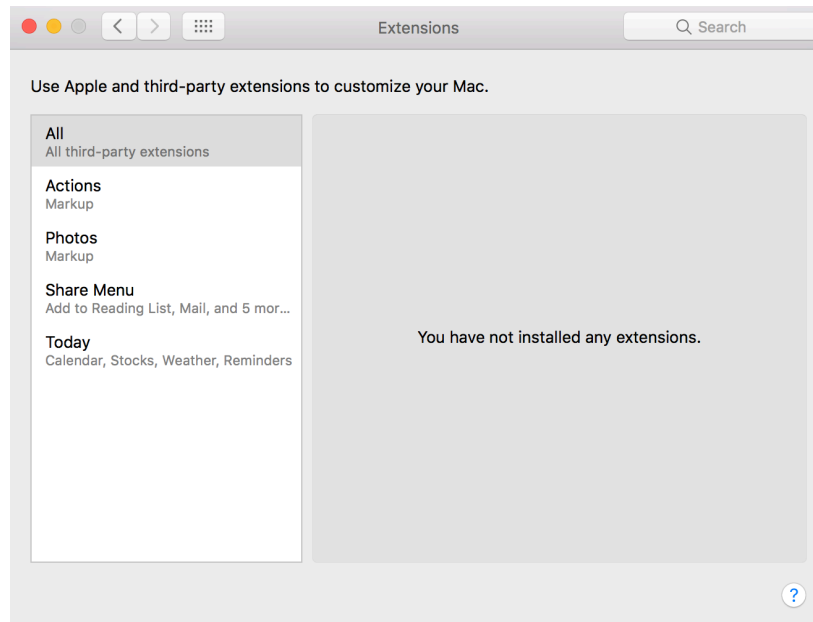
☐ Under the 'Actions' tab **uncheck** all boxes.

Extensions

Use Apple and third-party extensions to customize your Mac.

All
All third-party extensions

Actions
Not enabled

Photos
Markup

Share Menu
Add to Reading List, Mail, and 5 mor...

Today
Calendar, Stocks, Weather, Reminders

Select extensions for editing or viewing content:

☐ 🧰 Markup

☐ Under the 'Photos' tab **uncheck** all boxes.

☐ Under the 'Share Menu' tab **uncheck** all boxes except for Mail, AirDrop, Messages, and Add People.
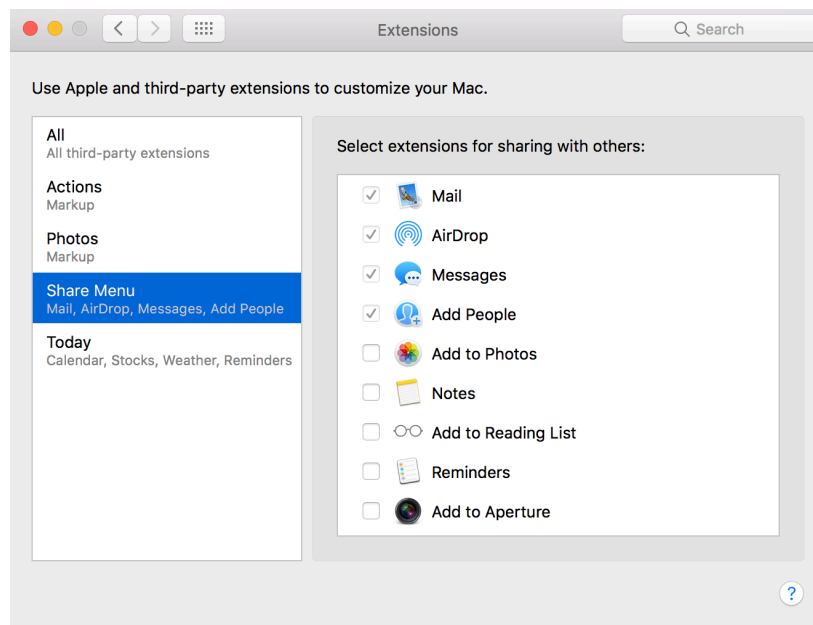
☐ Under the 'Today' tab **uncheck** all boxes.
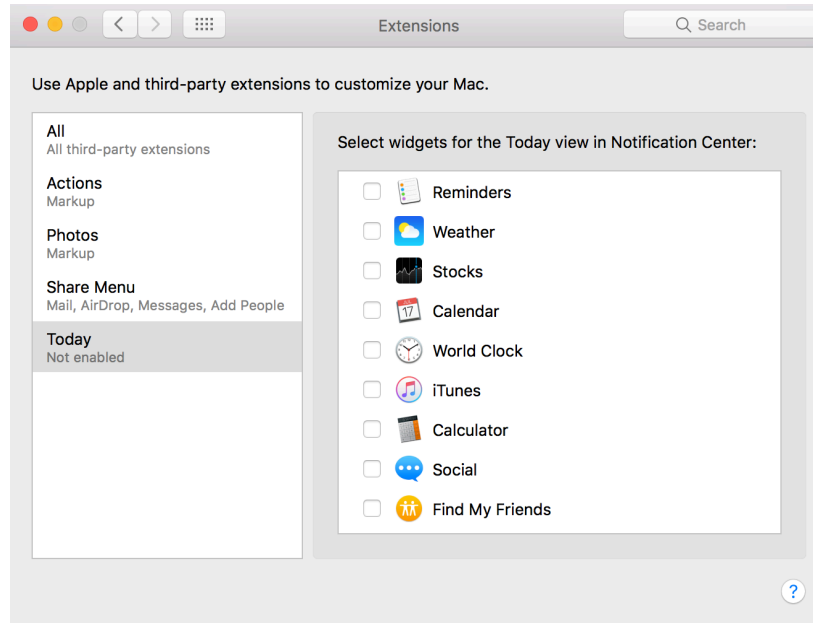
☐ Click the "Show All" Button to return to the top pane in the System Preferences window.

☐ Select the 'Sharing' pane

☐ In the 'Sharing' preference pane, set the Computer Name to 'SeaSondeSite-XXXX' where XXXX is your site's four letter site code.

☐ Under the 'Service' pane column to the left, **check** the following check box items: File Sharing, Remote Login, Remote Management, and Remote Apple Event.

☐ Click on the Remote Login option (highlight Remote Login). Click the "Only these users:" button and add the 'codar' user.
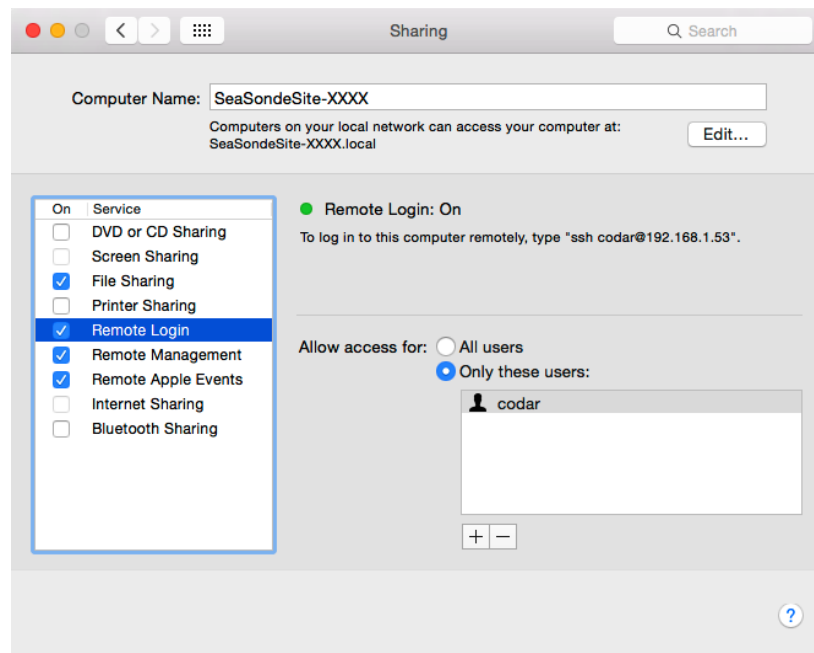
☐ Select the 'Remote Management' option (highlight 'Remote Management). Click the 'Only these users: button and add the codar account in the dialog below.
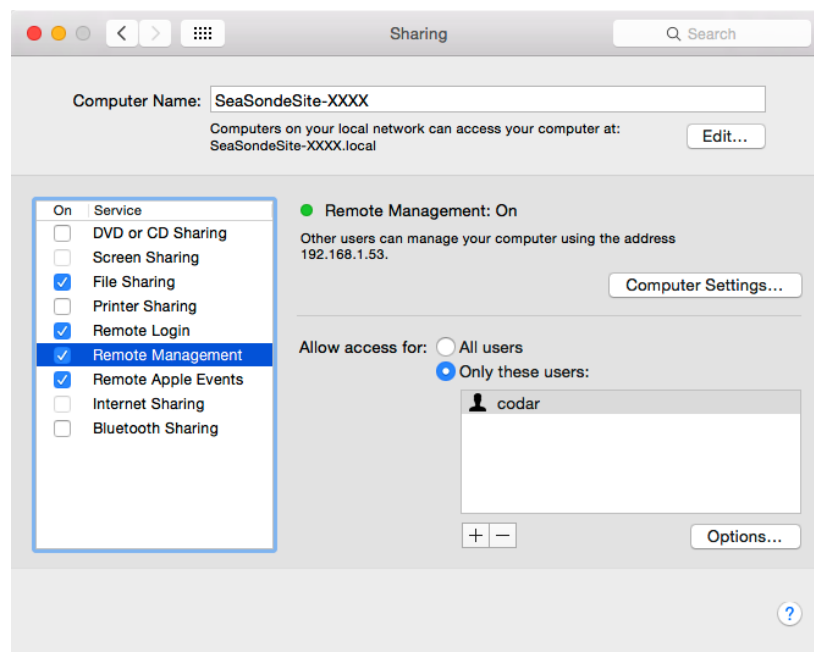
☐ Click the 'Computer Settings' button, **check** the VNC check box and use the same password as the 'codar' account.
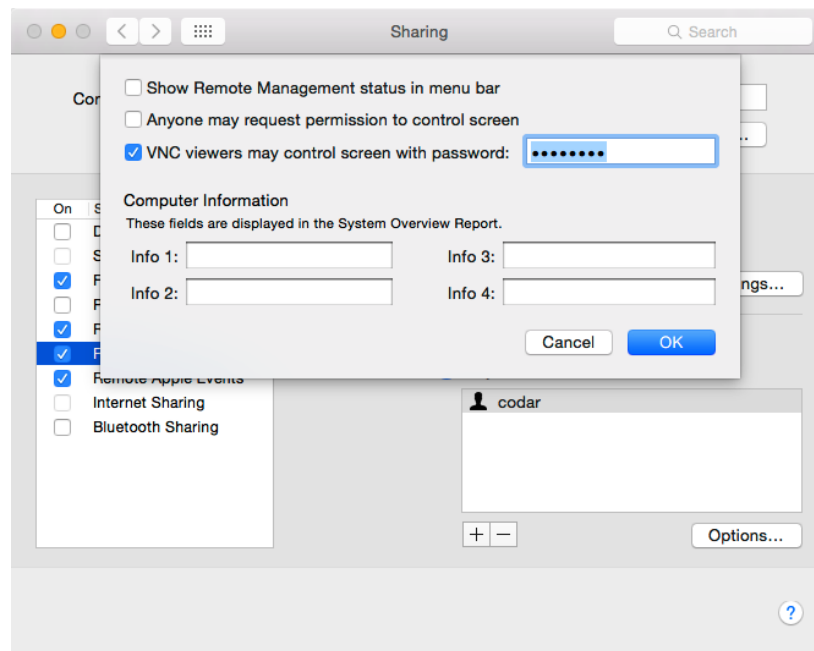
☐ Click the 'Options' button, click on all the options for 'codar' user in the access privileges in the Remote Management Options drop down menu and click the 'OK' button.
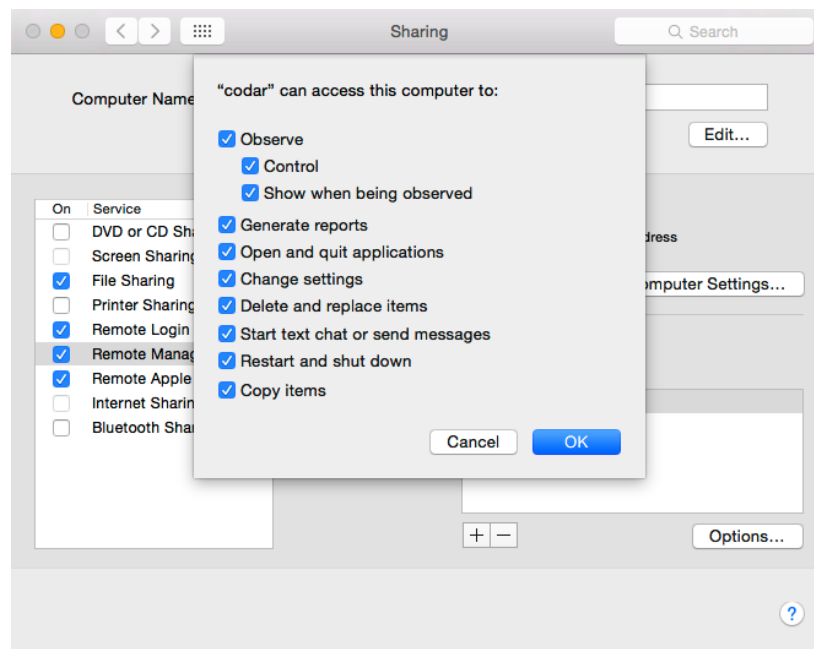
☐ Select the Remote Apple Events option (highlight Remote Apple Events).

☐ Select the "Only these users:" button and add the 'codar' and 'Administrator' users (if not already there).
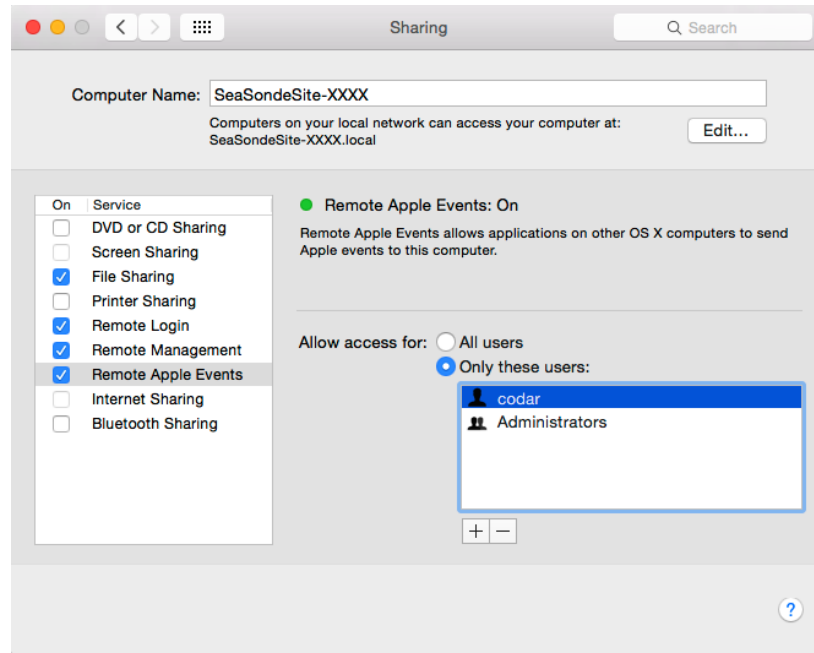
☐ Click the "Show All" Button to return to the top pane in the System Preferences window
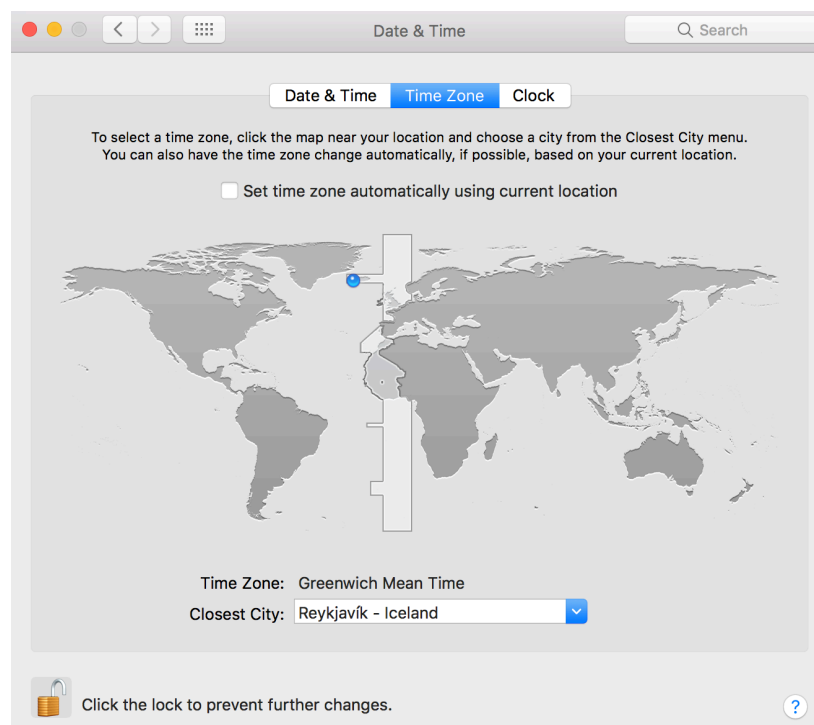
☐ Select the 'Date & Time' preference pane.
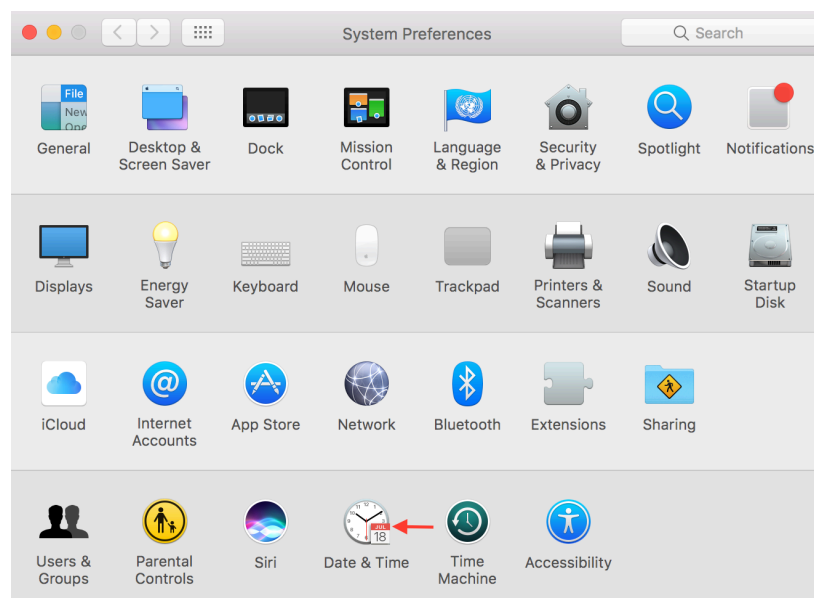
☐ For Radial Suite, **Uncheck** "Set date and time automatically". **Caution:** If you leave it checked and if your site has slower internet connection, it can cause problems with your data collection.
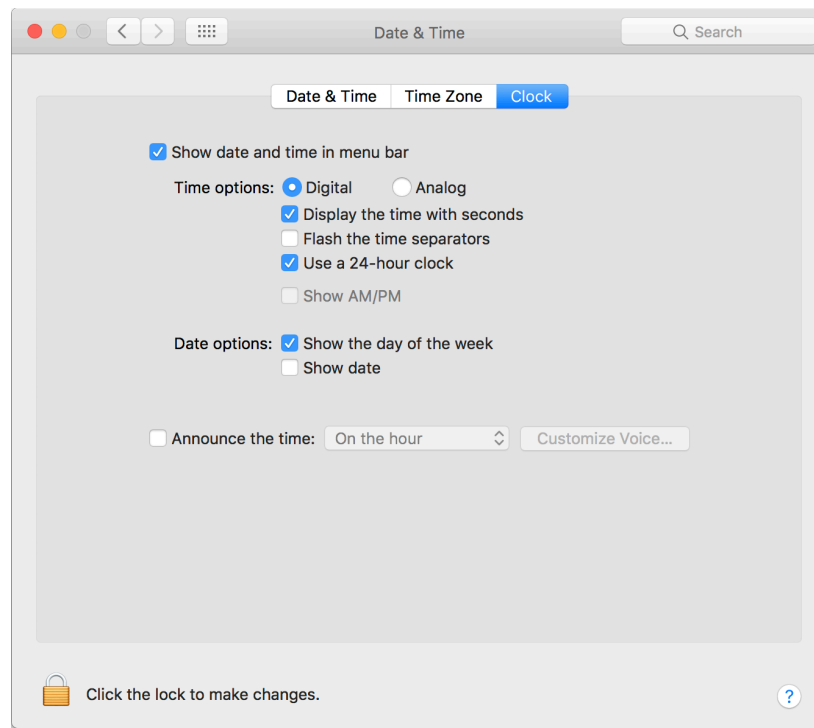
☐ For Combine Suite, Check "Set date and time automatically".
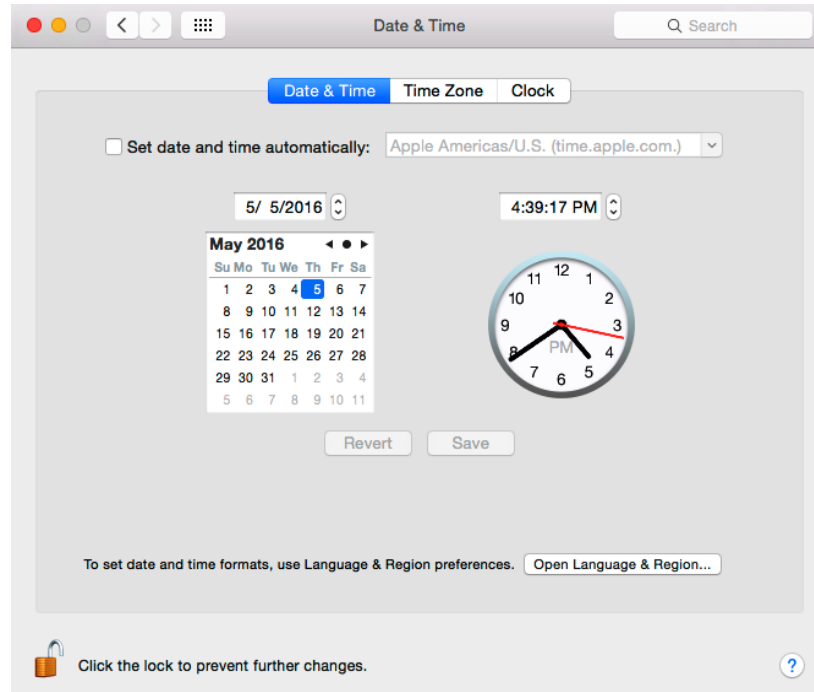
☐ Under the "Time Zone" tab check that the timezone is set to GMT/UTC, and select Reykjavik, Iceland as the "Closest City."

Navigate to the "Clock" tab above and follow the settings in the image below. These settings are mainly for convenience to show the time and date during use of this SeaSonde computer.
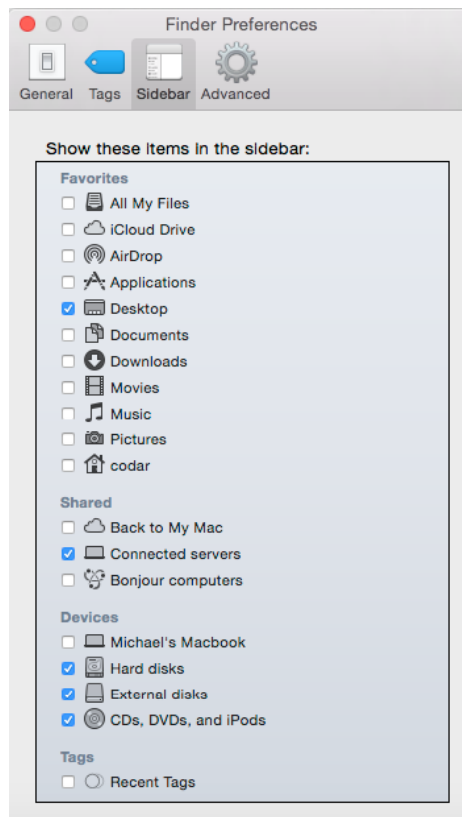
Finder Preferences

☐ In the Finder Menu select the 'Preferences...' item.

☐ In the 'SideBar' tab remove all the 'Favorites' shortcuts except 'Desktop'

☐ Under the 'Shared' shortcuts, **uncheck** choices except 'Connected Servers'

☐ Under the 'Devices' shortcuts, **check** 'Hard Disks,' 'External disks' and 'CD's, DVD's and iPods'

☐ **Uncheck** "Recent Tags" under 'Tags'

In the 'General' tab be sure to **check** all of the items to be shown on the Desktop as shown below.
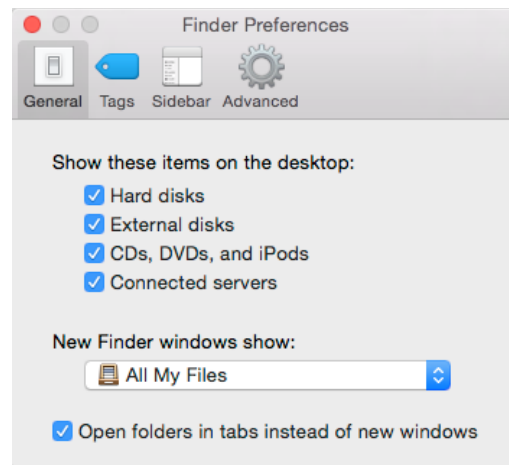
Go to Desktop and rename hard drive to 'CodarData' by navigating to the icon on 'Desktop' that may be titled 'Macintosh HD.' Single click on the current name and then click again to rename the main drive as shown below. Or change the name by Right Click and through 'Get Info' menu.
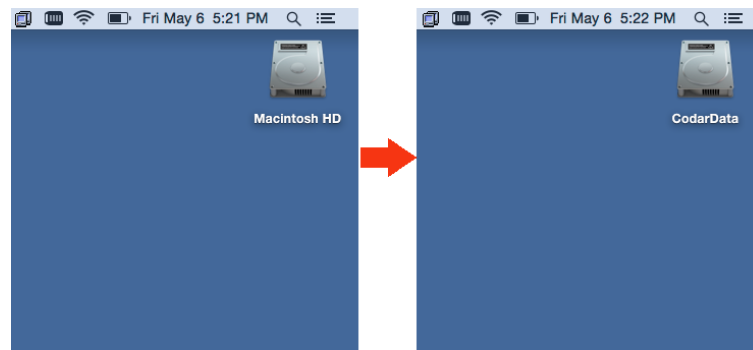
Next, Go to Finder > View Menu. Click on Show Path Bar and Show Status Bar menu items.
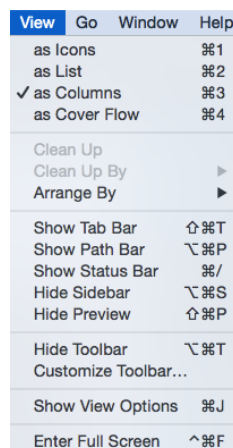
Finder Preferences after Installing
# SeaSonde Radial Suite or SeaSonde Combine Suite

- [ ] After installing the Radial or Combine Software suite, continue configuring Finder preferences as described in steps below

- [ ] Go to a Finder window, for Radial Sites; in the sidebar add the following folder shortcuts under Favorites section: SeaSonde, Apps, Configs, Archives, Data, Diagnostics, Radials, Spectra, Waves, Logs.(See picture below)

    Note: To add items to shortcuts, just drag and drop the folder to the Favorites section.

- [ ] Go to a Finder window, for Central Sites; in the sidebar add the following folder shortcuts under Favorites section: SeaSonde, Apps, Configs,Archives, Data, Radial Sites, Totals, Diagnostics,Logs.

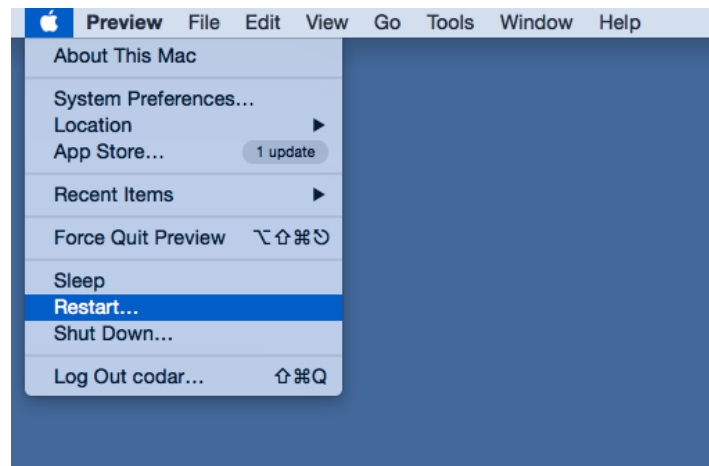- [ ] Final result should look like the following images.
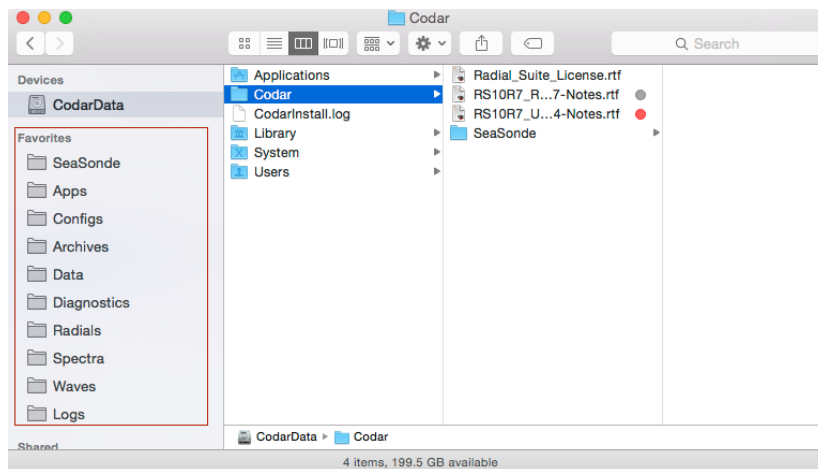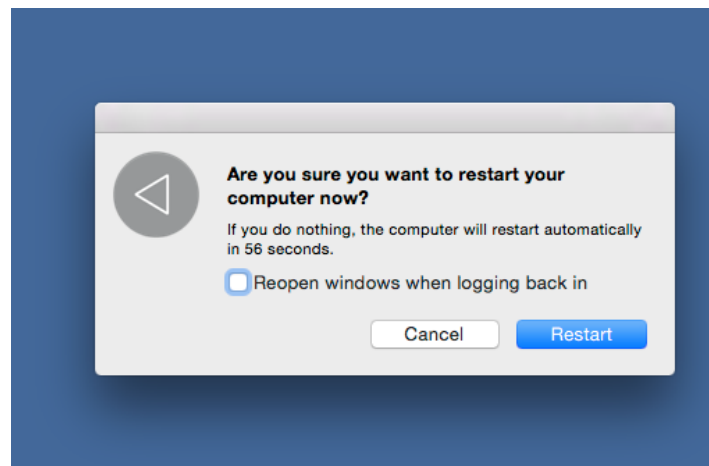

Radial Site Example
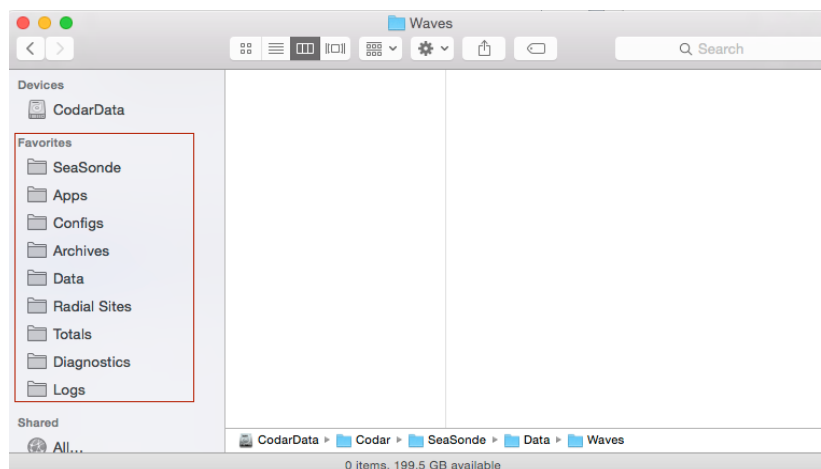
Combine Site Example

☐ Restart the computer by navigating to the top left Apple icon and selecting "Restart…"

☐ Be sure to leave the checkbox in the window that opens up, **unchecked**.

Congratulations!

This is the end of the SeaSonde computer setup guide.

Third Party Recommended Apps

We recommend users to install few third-party apps as below:

1. TextWrangler: It's a good text editor; better than the inbuilt TextEdit application in Mac.

You can download TextWrangler from Mac AppStore or directly from the developer's website from this link: http://www.barebones.com/products/textwrangler/

2. PrefSetter: Another Good application that may be needed in some occasions to read Mac property list settings (.plist) by CODAR support when supporting you remotely. Download from below link:

http://www.nightproductions.net/prefsetter.html

Note: Disable automatic software update for TextWrangler and PrefSetter in respective preferences.

Remote Control Apps

Every macOS version has an inbuilt app called ScreenSharing which uses VNC protocol. We recommend using ScreenSharing for remote control of your sites. This feature is enabled when you configure the "Sharing" settings as described earlier in the document.

However, if you do end up needing some other third-party remote control apps, TeamViewer and LogMeIn are popular programs amongst SeaSonde users.

Note: If you install TeamViewer or LogMeIn, disable automatic software updates for these apps.

Also, make sure that certain settings are in place for optimal performance during remote control sessions between sites. The auto-lock or auto-timeout feature in both applications should be turned off to avoid unexpected disconnects during remote session as shown in picture below.
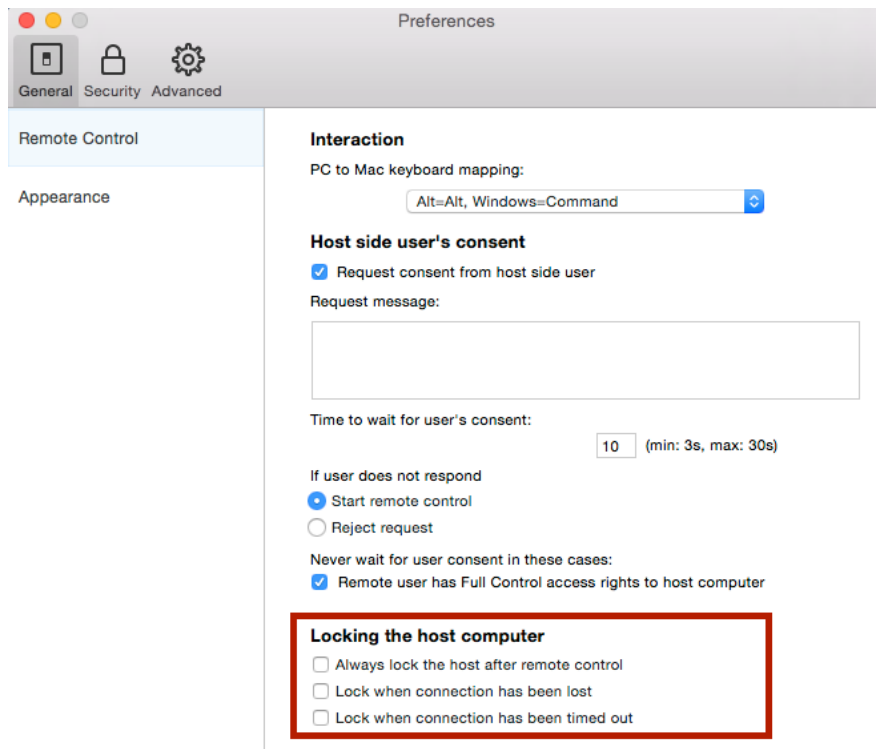
LogMeIn Example

☐ Quality of video should also be turned down to lower settings to optimize speed of the remote sessions. This is especially important on sites that have slower than normal internet connections.
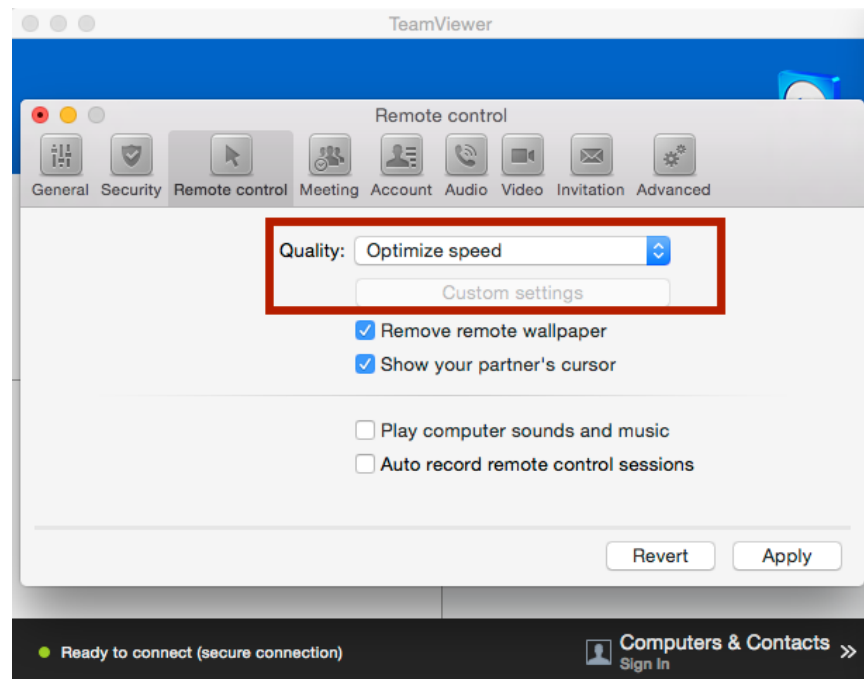
TeamViewer Example

Revision History

First Draft Aug 8, 2017

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