ASSIST v4.1 Installation Guide for Mac, Linux, and Windows

June 2018

ASSIST is a web-based application in which you record visual observations of sea ice. It can be run at sea without an internet connection on Windows, Mac or Linux computers. Please ensure you have Java, an appropriate web browser, and ASSIST installed on the computer you will use for data collection prior to leaving the ships's port. You will find an installation guide and information about the data format in the ASSIST download package.

Project Contact: Jenny Hutchings, Oregon State University

Project Email: icewatch@gina.alaska.edu

Icewatch General Project Website:
https://sites.google.com/a/alaska.edu/ice-watch/

Icewatch Software Download: http://icewatch.gina.alaska.edu/

Table of Contents

MAC PLATFORM

Software & System Requirements

- 64-bit Mac
    - All Macs released after 2006 are 64-bit
- Mac OSX 10.7 (Lion) or later
- Modern web brower (Chrome, Firefox, Safari)
- Java 1.7 or newer

Step 1. Check Java Installation, Java 7.1 or newer required

- If not installed already, install the Java Development Kit (JDK) http://www.oracle.com/technetwork/java/javase/downloads/index.html.
- Click on Apple icon on upper left of screen.
- Go to System Preferences.
- Double click on the Java icon to access the Java Control Panel.
- Click on the General Tab, About to get the Java Version
- Click on the Java Tab, View to manage the Java Runtime versions

Step 2. Download and Install ASSIST software

- Go to: http://icewatch.gina.alaska.edu/pages/assist
- Download the ASSIST zip file (ASSIST_v4.1.zip)
- Move zip file to a preferred location on your computer (hereafter referred to as $ASSIST_DIRECTORY)
- Unzip
- You may want to save a copy of the zip file in case you need to reinstall a clean version of ASSIST in future.

Step 3. Running ASSIST software

- Open a terminal application
    - See NOTE at end of this document if you do not know how to open a terminal application

- Change directories into the ASSIST_v4.1 installation directory
  - *cd $ASSIST_DIRECTORY*
- Confirm NO OTHER SESSION of the ASSIST software is running in a browser
  - Terminate any open browser windows and exit the application running in a terminal window with *Ctrl^C*
- Launch software (via a bash script)
  - *./launcher.macos.sh*
- Answer short series of questions in terminal window
  - "Enter name of cruise database (omit extension), or [Return] to use default database:"
    - example: *Test_Cruise*
    - IMPORTANT: Cruise database names should NOT contain special characters such as spaces and slashes.
    - Note: Default database is *production*
  - You will be asked if this is a new cruise or an existing cruise
    - If not, option to create *Test_Cruise*
    - If existing, will ask you to confirm *Test_Cruise* is the database you want to use
  - With questions answered, the ASSIST software will ready itself to be opened in your browser. This process can take several minutes as the software engages the browser. Once you see "Server:main: Started" scroll across terminal window, you are ready to open the web browser
- Open web browser
  - Navigate to: http://localhost:8080
- When you are finished using ASSIST
  - Close the web browser tab
  - Ctrl^C in the terminal window running the ASSIST software

NOTE: Opening a terminal window
The terminal application can be found in *Applications >Utilities >Terminal*. Navigate to this in the finder and click on Terminal to launch a terminal.

LINUX PLATFORM

Software & System Requirements

- 64-bit Linux
- Modern web brower (Chrome, Firefox, Safari)
- Java 1.7 or newer

Step 1. Check if your Linux system is 64-bit

- In your terminal window, type:
    - *uname –m* and hit enter.
    - If the response is i686, you have a 32-bit version of Linux. If the response is x86_64, you have a 64-bit version of Linux.

Step 2. Check Java Installation, Java 7.1 or newer required

- In your terminal window, type:
    - *which java* or *java -version*
- If the java version is not Java 7.1 or newer, must install Java on your Linux distribution

Step 3. Download and Install ASSIST software

- Go to: http://icewatch.gina.alaska.edu/pages/assist
- Download the ASSIST zip file (ASSIST_v4.1.zip)
- Move zip file to a preferred location on your computer (hereafter referred to as $ASSIST_DIRECTORY)
- Unzip
- You may want to save a copy of the zip file in case you need to reinstall a clean version of ASSIST in future.

Step 4. Running ASSIST software

- Open a terminal window
- Change directories into the ASSIST_v4.1 installation directory

- o *cd $ASSIST_DIRECTORY*
- Confirm NO OTHER SESSION of the ASSIST software is running in a browser
  - o Terminate any open browser windows and exit the application running in a terminal window with *Ctrl^C*
- Launch software (via a bash script)
  - o *./launcher.linux.sh*
- Answer short series of questions in terminal window
  - o "Enter name of cruise database (omit extension), or [Return] to use default database:"
    - example: *Test_Cruise*
    - IMPORTANT: Cruise database names should NOT contain special characters such as spaces and slashes.
    - Note: Default database is *production*
  - o You will be asked if this is a new cruise or an existing cruise
    - If not, option to create *Test_Cruise*
    - If existing, will ask you to confirm *Test_Cruise* is the database you want to use
  - o With questions answered, the ASSIST software will ready itself to be opened in your browser. This process can take several minutes as the software engages the browser. Once you see "Server:main: Started" scroll across terminal window, you are ready to open the web browser
- Open web browser
  - o Navigate to: http://localhost:8080
- When you are finished using ASSIST
  - o Close the web browser tab
  - o Ctrl^C in the terminal window running the ASSIST software

WINDOWS PLATFORM

Software & System Requirements

- 64-bit Windows
- Browser: Explorer, Chrome, Firefox
    - NOTE: The Edge browser does not run Java
- Java 1.7 or newer

Step 1. Check if your Windows systems is 64-bit

- WINDOWS 10
    - Open *Settings* > Click/tap *System* icon > Click/*tap Check if your Linux system is 64-bit* on the left hand side > Under *Device Specifications* you will find the *System type* listed as either 32 or 64-bit.
- WINDOWS 8
    - Open a search box – swipe from right edge of screen and type Search, or click on lower-right corner of screen and click *Search* > Click/tap *System* > Click/tap *Settings* > Click/tap *System* > you can view the *System type* under the *System* heading.
- WINDOWS 7, VISTA
    - Click *Start* > Right click *Computer* > *Properties*. Under *System*, you can view the *System Type*.

Step 2. Check Java Installation, Java 7.1 or newer required

- Launch the *Windows* Start menu.
- Click on Programs (All Apps on *Windows 10*)
- Find the *Java* program listing.
- Click *Configure Java* to launch the Java Control Panel.
- Click on the *General Tab*, About to get the Java Version
- Click on the *Java Tab*, View to manage the Java Runtime versions

Step 3. Download and Install ASSIST software

- Go to: http://icewatch.gina.alaska.edu/pages/assist
- Download the ASSIST zip file (ASSIST_v4.1.zip)
- Move zip file to a preferred location on your computer (hereafter referred to as $ASSIST_DIRECTORY)
- Unzip
- You may want to save a copy of the zip file in case you need to reinstall a clean version of ASSIST in future.

Step 4. Running ASSIST software

- From File Explorer
  - Double click *launcher.windows.bat*
- Answer short series of questions in terminal window
  - "Enter name of cruise database (omit extension), or [Return] to use default database:"
    - example: *Test_Cruise*
    - IMPORTANT: Cruise database names should NOT contain special characters such as spaces and slashes.
    - Note: Default database is *production*
  - You will be asked if this is a new cruise or an existing cruise
    - If not, option to create *Test_Cruise*
    - If existing, will ask you to confirm *Test_Cruise* is the database you want to use
  - With questions answered, the ASSIST software will ready itself to be opened in your browser. This process can take several minutes as the software engages the browser. Once you see "Server:main: Started" scroll across batch window, you are ready to open the web browser
- Open web browser
  - Navigate to: http://localhost:8080
- When you are finished using ASSIST
  - Close the web browser tab
  - Click the *X* in upper right corner of batch window