

1.7 SEAMCAT software

- [1.7.1 Installation using .jar package](#)
- [1.7.2 SEAMCAT home directory and configuration panel](#)
- [1.7.3 Java source code](#)
- [1.7.4 Multi processing power in SEAMCAT](#)

1.7.1 Installation using .jar package

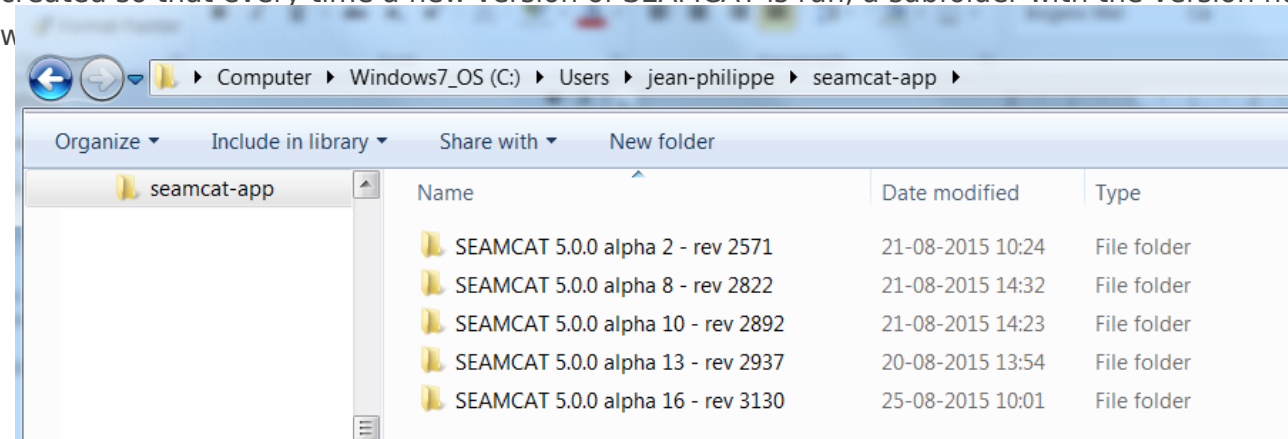
SEAMCAT is an open source project developed using Java which means it can run on any operating system supported by Java. The SEAMCAT installation is started by clicking on the install link from www.seamcat.org and it is free of charge.

The .jar package is platform independent so that you can run SEAMCAT on either Mac OS, Linux or Microsoft Windows operating systems. You need to check on the website that you have the latest version installed.

It is required that you have the Java runtime environment (JRE) installed on your computer, available to download free of charge from www.java.com. The latest version is recommended.

1.7.2 SEAMCAT home directory and configuration panel

When SEAMCAT (5 and upward) is run, a folder (SEAMCAT home directory) will be automatically created so that every time a new version of SEAMCAT is run, a subfolder with the version number



Figure

14: Illustration of the seamcat-app content

Name	Date modified	Type
logfiles	12-10-2015 14:07	File folder
reports	12-10-2015 14:07	File folder
temp	12-10-2015 11:21	File folder
workspaces	12-10-2015 14:08	File folder
default-library.sli	12-10-2015 14:06	SLI File
seamcat.log	12-10-2015 11:46	Text Document
settings.xml	12-10-2015 13:52	XML Document

Figure 15: Content of a work directory

Table 1: Description of the content of the SEAMCAT home directory

Name of file/folder	Type	Description
logfiles	Folder	Contains the log file (.txt) generated when debug mode is used
reports	Folder	Contains the report files (.xml/.html/.xlsx) generated by the Report feature
temp	Folder	Contains temporary files used by SEAMCAT
workspaces	Folder	Default folder for creating new workspaces and saving result workspaces. This can be changed from the File menu
Default-library.sli	File	Contains the default library of SEAMCAT (systems, masks, antennas, etc.)
seamcat.log	File	Text file containing all the log information reported by SEAMCAT (errors, warnings etc.) . Note that the file may be appended with information everytime you launch SEAMCAT is launched. You This folder may wish be to deleted it from time to time if so wished to clear computer space or reset settings. When deleted, it is automatically created next time you launch SEAMCAT is launched.
settings.xml	File	Contains the settings of your SEAMCAT configuration including all settings related to external plugins

The location of the home directory can be modified in the SEAMCAT configuration panel accessible via general menu option <File/Configuration> () also using <CTRL+G>. Further information is given in Annex [A20.1](#).

1.7.3 Java source code

The source code for SEAMCAT is made available for scrutiny. The only condition for obtaining a copy of the source code is to sign a special **Source Code User Licence Agreement** and deliver it to ECO by email (seamcat@eco.cept.org). The procedure is described at:

<http://www.cept.org/eco/groups/eco/seamcat-source-code>.

1.7.4 Multi processing power in SEAMCAT

As of version 5, SEAMCAT is able to run in multiprocessor environments to increase the computation speed. The more processors a computer has, the less time a simulation will take. Since the Monte Carlo simulation method considers that each event is independent from each other, events can therefore be distributed across all the processor cores in the machine in order to decrease the computation time. The EPP runs in parallel for each event.