**NeOGen software**

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| **Price:** | This software version and documentation are currently Draft, Confidential, & Copyright Dean Blower 2018 All Rights Reserved. |
| **Download:** | DOWNLOAD – Please register your details before downloading this software |
| **Software authors:** | Blower, D.; Riginos, C.; Ovenden, J. |
| **Release date:** | August 2018 |
| **Version:** | Ver. 1.3.0.6.a1. |
| **Download format:** | 205MB exe file (self-guided installation) |

Product information

NeOGen (genetic *N*e for Overlapping Generations analysis; pronounced Neo-gen) is point-&-click genetic effective population size (*N*e) and demographic modelling software. The software, initially designed for sharks, is applicable to many overlapping-generation species with moderate to low population sizes and fecundity (such as mammals). NeOGen provides a cohesive linkage disequilibrium genetic *N*e estimate (*N*e*.LD*) analysis and population simulation framework that simulates both the demography and genetic composition of a population, given a small subset of fundamental species-specific life-history, demographic and genetic priors. NeOGen then guides the researchers in-silico to establish a tractable sampling regime, resulting in the numbers of samples and loci required to give accurate and precise *N*e*.LD* estimates when empirical sampling is performed in the field.

Preferred citation

Coming soon

License information

The Alpha and Beta versions of this software and documentation are currently Draft, Confidential, & Copyright Dean Blower 2018 All Rights Reserved.  This is to protect our intellectual property until the software is accepted for publication (currently in review with journal Molecular Ecology Resources). When accepted for publication the software will be free and open source. Future stable releases (i.e. not alpha or beta test versions) will be licensed with a GNU General Public License (GPL) license: <https://opensource.org/licenses/GPL-3.0>

Computing requirements

The minimum computing requirements for running NeOGen are as follows.

A PC with any of the Microsoft Windows operating system versions listed below installed. It is assumed that if you are able to run one of these operating systems, you have enough computing power to run the NeOGen software.

* Windows 7, 8, & 10, 64-bit (32-bit not available yet)
* Minimum 4GB RAM
* Microsoft Visual C++ 2008 Redistributable Package – This is typically already installed on many Windows machines, if it isn’t, the NeOGen Setup will attempt to install it.
* Approximately 1 GB free hard disk space (not including user data space requirements).
* Best viewed at screen resolution 1280x768 with text size of 100% (i.e. not enlarged)
* Mouse or compatible pointing device.
* User-specified PDF-viewer (eg. Adobe Acrobat or equivalent)

Further information

Details about the software (without downloading the entire software package) are available here.

* The user manual ([Guide\_0](http://2ut9n61bkk06pj0x74a5nwzu.wpengine.netdna-cdn.com/wp-content/uploads/2016/05/NeOGen-Power__Guide_0__User_Manual_v1_0_9.pdf))

For installation details, download the [README file here](http://2ut9n61bkk06pj0x74a5nwzu.wpengine.netdna-cdn.com/wp-content/uploads/2016/05/INSTALL_README.txt).

For details on what ‘s new in this latest version, download the CHANGE\_LOG file here.

Four screen shots are available; the Scenario specification screen, the Scenario results [screen](http://2ut9n61bkk06pj0x74a5nwzu.wpengine.netdna-cdn.com/wp-content/uploads/2016/05/NeOGen-Power__Demographic_Result_Screen_LowRes_V1.png), the Sampling Strategy specification screen, and the [Sampling Strategy results screen](http://2ut9n61bkk06pj0x74a5nwzu.wpengine.netdna-cdn.com/wp-content/uploads/2016/05/NeOGen-Power__Sampling_Strategy_Screen_LowRes_V1.png).

Frequently asked questions

**Q: Is there a version of NeOGen available for Linux and/or Macs?**

**A:**No, sorry Linux & Apple users. Hopefully we can supply a version compatible with your OS in the next versions.

**Q: How do I get a copy of NeOGen?**

**A:** Click on the link below to open the NeOGen registration page. Register yourself as a user of NeOGen (enter your details in the spaces provided and click the submit button), then download the NeOGen installation file (Setup-NeOGen.exe).

**Q: How do I get NeOGen started once I have downloaded the installation file?**

**A:**Please use the following installation procedure:

1. Download the Setup EXE file.
2. Double-click the Setup EXE to start installation.
3. Specify the installation drive & folder.

- Using the default folder is recommended. Do NOT use a windows system reserved folder e.g. C:\Windows\Program Files, as security permissions may prevent correct NeOGen operation.

- Install to a permanently attached drive. Installing to a removable drive, e.g. USB drive, is not recommended.

1. Follow the prompts to finalise the installation. Use the default values for best results.
2. Double-click the NeOGen shortcut (on the desktop, in the start menu, or in the installation folder) to start NeOGen. Don’t start it with the NOGP.exe.
3. You're done! Start exploring the wonder of NeOGen. Reading the guides will help ;o). Guide 0 is displayed alongside the main app when its launched.

**Q: How do I uninstall NeOGen?**

**A:** Uninstall NeOGen from the Windows Programs & Features Control Panel screen by clicking on the NeOGen entry. Alternatively, clicking on the unins000.exe in the installation folder will start the uninstall process.

Feedback

Please send any questions or feedback to [Contact Us](http://www.molecularfisherieslaboratory.com.au/contact-us/)