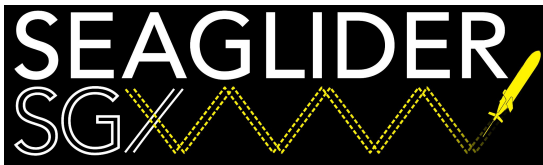
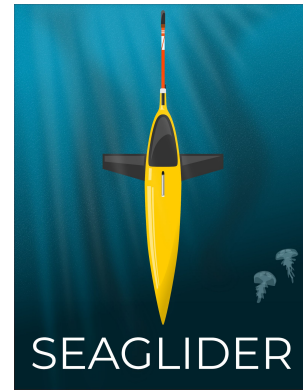


Seaglider Webinar Series pt. 1
Vis 101: An overview of
basestation3 visualization features

IOP Seaglider Group
APL-UW
15 May 2024



UNIVERSITY of
WASHINGTON



Introduction: Seaglider webinar series

- Purpose of the webinar series is to introduce the Seaglider community to the latest developments in Seaglider basestation and operating software.
- Webinars will assume familiarity with Seaglider operating principles and practices.
- They are not a replacement for pilot training, though they might serve as a refresher or to demonstrate new or novel methods to current users.
- Currently scheduled seminars are focused on visualization in basestation3:
 - Today: "Vis 101: Visualization features of basestation3".
 - Wednesday June 5, 4-5pm PDT (GMT-7): "Vis 201: How vis can help you pilot".
 - Wednesday June 26, 8-9am PDT (GMT-7): "Vis 301: Advanced tools and control"
- We welcome feedback and suggestions for future topics.
- Format is flexible and informal. We are planning about 40 minutes for presentation/demonstration and 20 minutes for questions and discussion.
- During the presentation, please put questions into the chat if something is unclear.

Definitions

Seaglider basestation: Shoreside infrastructure to support Seaglider communications, piloting and data processing.

Basestation server: The computer hardware serving as the network node on which basestation activities occur. Can be a cloud based resource or a computer in your lab. Every Seaglider has a user account on the server, as does every pilot. Seagliders connect via Iridium RUDICS or dial-up modem. Pilots usually connect via ssh.

Basestation software: The collection of software running on the basestation server, including data processing functions, piloting tools, and visualization applications, to support Seaglider operations. Every basestation server runs basestation software, but basestation software can also be run stand-alone to support reprocessing or analysis, or on other servers to support web based visualization.

Basestation3: The latest version of Seaglider basestation software. Open source, available at <https://github.com/iop-apl-uw/basestation3>. The design intent of Basestation3 is to be self-contained, providing all components necessary for glider operations, piloting and visualization. No matlab required.

Vis: The visualization application that comes bundled with basestation3 to provide a web based interface for piloting and real-time and archival mission presentation. Runs on the basestation server (this is what seaglider.pub does), a separate public facing web server (behind a proxy or directly), or over an ssh tunnel for single pilot use. No separate web or database server infrastructure required.

seaglider.pub: The community basestation server operated by IOP, which all Seaglider users are welcome to use at no charge. It runs basestation3 software and provides a per group instance of the vis application.

