

# Gator<sup>®</sup> | Seabed Command & Control

## COMMAND & CONTROL FOR SEABED, TZ AND EM OPERATIONS

### Gator

- The industry standard platform for seafloor, transition zone and multi-vessel operations
- Flexible and scalable architecture
- Continuously evolving technology based on close client collaboration
- Dedicated support team available 24/7
- Centralized and automated data management
- Easily adaptable to the multi-faceted operational demands of seafloor surveys

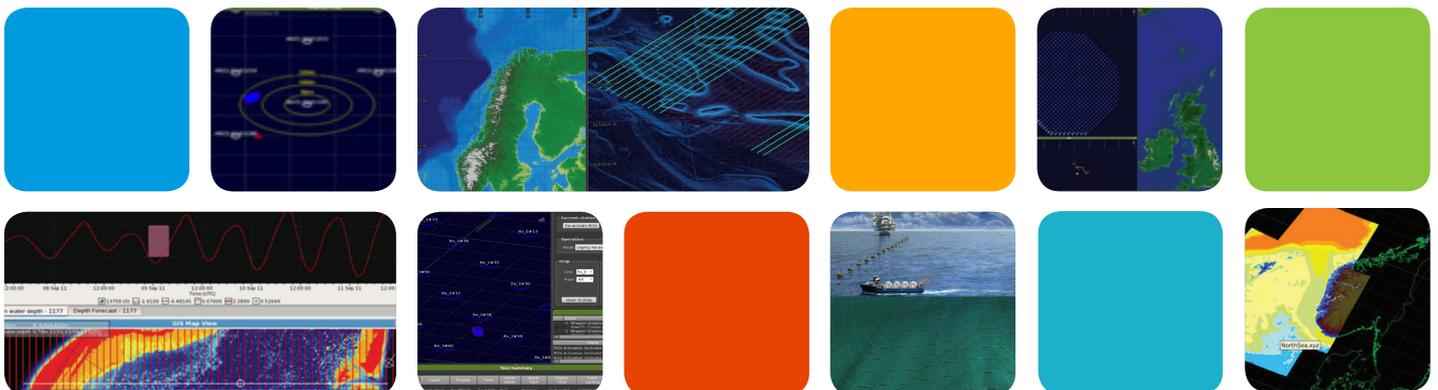
Setting the industry standard for nearly 20 years, the Gator seabed navigation, Command & Control software is designed to meet the unique challenges of distributed, multi-vessel ocean bottom (OBC, OBN), transition zone (TZ), and electromagnetic (EM) data acquisition. The system is designed with flexibility in mind in order to support the many varied operational requirements of geophysical and oil companies. Its distributed, scalable architecture easily accommodates single vessel operations through to highly complex, multi-vessel and multi-system projects.

### Gator at a glance:



### KEY BENEFITS

- Established industry leader with unrivaled track record
- Innovative bespoke and timely solutions using agile development methodologies
- Interfacing and integration expertise
- Reliability from robust, fault tolerant distributed architecture
- Flexible master/slave, remote or autonomous operations
- Survey wide status views to enhance operational efficiency and reduce cost and operational risk
- Automated generation of deliverables using the latest OGP standards





→ **Operational Planning**

Survey wide operational planning is easily achieved using Gator’s integrated GIS application and line/turn planning tools. Obstacles, exclusions, incursion definitions, alarms and tidal models can all be created, imported and analyzed to provide clear work schedules for distribution to multiple vessels or third parties.

→ **Command & Control**

The Gator system provides a highly configurable Command and Control environment for seabed operations that supports a wide range of complex acquisition techniques demanded by geophysical and oil companies alike. A centralized data management platform, utilizing a robust, fault tolerant, multi-vessel communications infrastructure, allows an extremely flexible distribution of control to suit the operational requirements. This is provided irrespective of whether it is a centralized master command center that removes the need for experts at all slave locations, or a more distributed level of control allowing individual vessel autonomy.

→ **In-field Optimization**

Currently many of our customers use in-house tools for management of survey acquisition priorities. ION has tools that can be integrated with the Gator platform to address survey planning, survey progress and optimization. ION works with customers to integrate their own optimization tools if required.

→ **Navigation Processing**

Gator provides fully integrated source and receiver post-processing tools with automated export of the latest industry standard data formats. Enhanced source line auto-filtering techniques allow lines to be processed with little user input. State of the art receiver solutions using acoustics and/or first breaks, with detailed QC and reporting, provide clients with confidence in the final deliverables.

→ **Binning & Spatial Coverage**

The Gator platform provides powerful real-time and offline coverage displays and analysis tools. Offline coverage plots and detailed attribute analysis provide the user with the best, up to date information allowing informed decision making regarding optimal infill.

→ **Field QC & Analysis**

Gator’s powerful field QC and analysis functionality provides comprehensive and clear reporting of data quality in real-time and offline. Quality is assured with automatic identification of problem areas that fall outside survey wide rejection criteria. Spatial attributes allow for easy identification of data trends both spatially and temporally. 4D surveys can easily be monitored and QC’d using Gator’s advanced 4D QC tools.

	Surface Geometry	Subsurface Illumination	Operational Planning	Command & Control	In-field Optimization	Navigation Post Processing	Binning & Spatial Coverage	Field QC & Analysis	Situational Awareness (incl weather)	Ice Management
Towed Streamer Seismic	MESA		Orca					Marlin		
Seabed Seismic	MESA		Gator					Marlin		
Onshore Seismic	MESA						MESA			
Offshore Operations*			Marlin		Marlin			Marlin		

\*Offshore Operations including: logistics; Subsea, Umbilicals, Risers and Flowlines (SURF); and construction projects

ION has been delivering solutions to the oil and gas industry for over 40 years, and is the leading provider of real-time, multi-vessel positioning and control systems. For further information contact [csl-sales@iongeo.com](mailto:csl-sales@iongeo.com).

**About ION**  
 ION is a leading provider of technology-driven solutions to the global oil and gas industry. ION’s offerings are designed to help companies reduce risk and optimize assets throughout the E&P lifecycle.