

AppSeis

The Definitive OBN QC Software.

AppSeis is a dedicated QC software designed to give geophysicists full confidence in the **integrity of OBN (Ocean Bottom Node) datasets**. Conceived and **built by Jean-Jacques Chameau**, a globally recognized expert in node-based seismic acquisition and QC, AppSeis encapsulates years of offshore experience in a rigorous, field-proven workflow.

Developed for **on-board use by client representatives**, it focuses on what matters most offshore: validating seismic data quality in real time, detecting anomalies early, and ensuring that deliverables are reliable inputs for subsurface characterization. Standing as **the only seismic-based QC software** dedicated to OBN acquisition, it offers unmatched precision and **the most complete validation capability available** today.

AppSeis offers high-value diagnostic capabilities to rapidly assess **seismic trace behavior, sensor integrity, and positioning accuracy**. Time- and frequency-domain tools provide immediate insight into signal content, noise levels, and S/N ratios, helping users **identify coupling issues, malfunctioning nodes, or degraded channels** before they affect imaging quality.

Automated first-break analysis—**accurate to around one meter**—supports reliable source-receiver geometry, while geophone-orientation diagnostics and hydrophone-geophone comparisons help characterize node behaviour on the seabed. AppSeis also validates essential navigation and ancillary data, including **SPS structures, trace headers, BP SIT fields, and bubble test performance**. Flexible displays, histograms, and near-field hydrophone calibration create a **comprehensive QC environment** that enhances survey robustness and protects downstream interpretation.

AppSeis streamlines offshore QC routines through intuitive displays, clean plots, and precise numerical outputs that feed directly into **survey QC reports**. Its interface reduces time spent navigating complex file structures. By embedding standardized QC logic into a single, user-friendly tool, AppSeis lowers operational uncertainty, minimizes the risk of re-acquisition, **considerably reduces processing times** after transmitted data consistency is proven, and ensures a **consistent, repeatable approach to OBN data validation**.

Backed by Kappa Offshore's extensive expertise in marine seismic acquisition, AppSeis provides a dependable, field-tested methodology that strengthens decision-making and supports more accurate subsurface imaging.

FIELD PROVEN.

SEISMIC BASED.

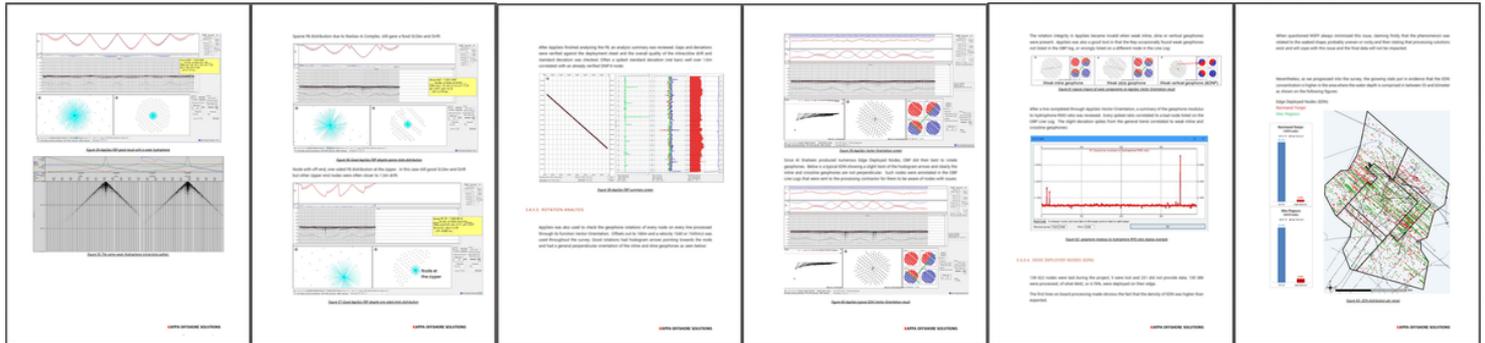
ADVANCED QC DIAGNOSTICS.

CLEAR QC REPORTING
& FASTER PROCESSING.

KEY FEATURES

- Seismic trace analysis.
- File headers & all trace header contents consistency.
- First Break Positioning (up to 1 meter accuracy).
- Geophone orientation analysis.
- Node coupling analysis.
- Verify SPS file.
- Verify the contents of all the fields of a BP SIT file type.
- Full analysis of bubble tests.
- Amplitude calibration of the Near Field Hydrophones.

REPORTING MATERIAL



INSTALLATION PRE-REQUISITES

- Microsoft Windows 10 or 11.
- Standard PC configuration.
- Recommendations for use:
 - Intel Core i5 CPU or higher.
 - 8GB RAM or higher.

BILLING MODEL

- Survey-based licensing.
- 1 licence covering 2-decks installation
- Daily or yearly licence, starting from 250€ / day.
- Optional services:
 - Comprehensive QC representative training.
 - AppSeis parameterization & configuration.
 - OBN surveys QC services.

ABOUT US

Jean-Jacques Chameau, developer of Appseis, is a senior seismic supervisor with more than twenty years of worldwide experience in node-based data acquisition. Recognized by major operators and contractors for the rigor and reliability of his work, he brings a deep understanding of field operations and QC requirements. In addition to his operational expertise, he also trains teams in node acquisition and OBN QC supervision, ensuring the consistent application of best practices across projects.

Kappa Offshore Solutions is a marine engineering company, specialized in offshore seismic data acquisition. Since its inception in 2012, Kappa Offshore Solutions delivered more than 200 projects in more than 30 countries, providing technical assistance services and seismic equipment for major clients in the Oil & Gas, Defense, Maritime and Oceanographic Research industries.

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