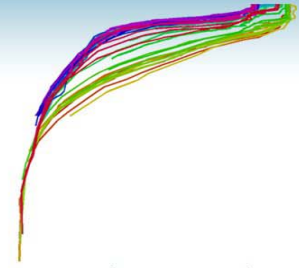


APL

JOHNS HOPKINS UNIVERSITY
Applied Physics Laboratory

SASEA



APL SASEA - Oceanographic Data Analysis System

Developed by
The Johns Hopkins University
Applied Physics Laboratory



Product Description

APL-SASEA is a unique software package that provides oceanographic analysis, file management, and data visualization tools for scientists and engineers from both the R&D and commercial oceanographic fields. SASEA includes sophisticated profile editing and analysis tools, database management, and custom visualization functions.

Features

- A data structure supporting various oceanographic profile data types and computes derived parameters from measured data
- Profile Editor provides advanced processing techniques including data smoothing, data decimation, single/multiple point removal
- Analysis module includes algorithms to calculate profile density, Brunt-Väisälä frequency, and create surface-to-bottom sound speed profiles in both deep and littoral regions
- Database Tools allow users to create and update profile databases with convenient extraction and sorting routines
- The Graphics module provides interactive multi-profile plotting, contouring and mapping tools

Applications

- Real-time ocean survey processing and analysis onboard ship, aircraft, and submarine
- Post-test data processing and analysis
- Pre-test climatological site assessments using historical profile data
- Preparation and assessment of acoustic propagation model inputs



APL-SASEA

Main Menu

Import/Export Data

- Data Structure Supports Various Oceanographic Profile Data Types and Resolution

Profile Editor

Ocean Analysis

Database Tools

Graphics Display

Proven Technology

For over a decade APL-SASEA has been used by JHU/APL and the US Naval Oceanographic Office to provide a standardized approach to oceanographic profile data processing and analysis. Used in over 50 field exercises, it is estimated that over 10,000 AXBT, CTD, XBT, XCTD, and XSV profiles have been processed using SASEA.

APL-SASEA includes a sophisticated user interface that provides easy access to all system functions. SASEA is ready to fulfill your oceanographic data processing, analysis, and profile data management needs.

Hanson, J.L., "At-Sea Environmental Analysis – Valuable Tool for Oceanographic R&D," *Sea Technology*, **31** (2), pp.10-16, February 1990

Availability

APL-SASEA runs in the MATLAB Software environment.

For technical information, please contact:

Michele D'Anna
Project Manager
Phone: 443-778-4900
email: Michele.DAnna@jhuapl.edu

Jeff Hanson
Principal Oceanographer
Phone: 443-778-4292; Fax 440-778-6908
email: Jeff.Hanson@jhuapl.edu

Michael Mandelberg
Senior Scientist
Phone: 443-778-4457
email: Mike.Mandelberg@jhuapl.edu

For licensing information, please contact:

John M. Bacon
Technology Manager
Phone: 443-778-8309; FAX: 443-778-5882
e-mail: John.Bacon@jhuapl.edu