

CODAR Auto-APM Kit

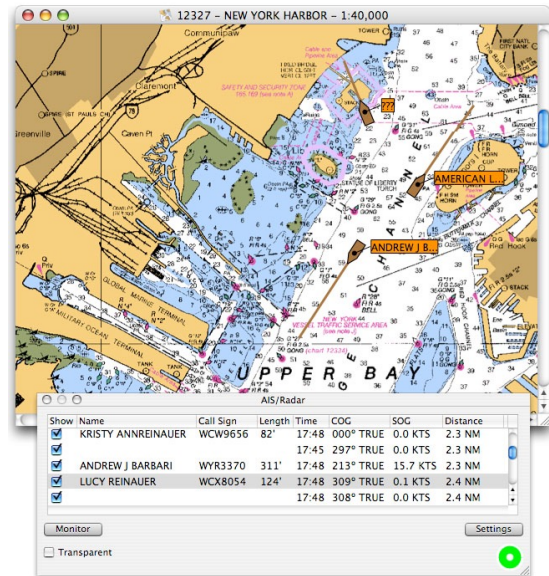
CODAR Product Code: SSSA-APM



Product Description:

This kit can generate autonomous SeaSonde antenna pattern data using Doppler echoes from passing vessels as a signal source and their AIS transponder data for a reference bearing. The automated output is useful in system calibration, routine system monitoring and maintenance for maximizing quality assurance of your SeaSonde data products. Antenna pattern data is collected in real time on the site and updated pattern data is produced at user selected rates and based on the level of local vessel traffic, which may vary by direction or time. This technology may reduce the need for additional transponder measurements, or be used to identify times when a new transponder measurement is necessary.

Kit hardware and software can be easily added to new and existing SeaSonde sites.



AIS data is stored on board the SeaSonde computer and archives can be accessed or real-time data streamed in parallel for other uses. All calibration data is archived in time-stamped files for later analysis of changes in antenna patterns over time.

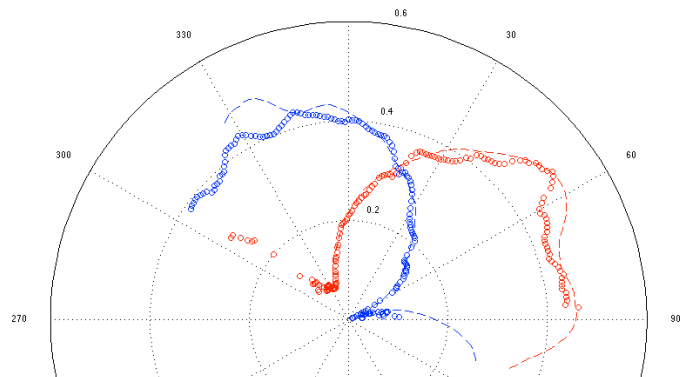
Compatibility:

- Auto-APM software package is designed to run in parallel with all other SeaSonde software on the SeaSonde Remote Unit computer and does not affect traditional current or wave measurement processing.
- Runs with SeaSonde Radial Suite Release 7 or later.
- Can be used at any SeaSonde operating frequency.
- Requires passing vessels to be transmitting AIS messages and ability to utilize vessel's AIS echo is subject to local RF noise conditions.

SSDA-APM Kit Includes:

- AIS Receiver
- VHF AIS Antenna, (Length approx. 1.25m)
- Antenna Cable (Length: approx. 7.6m)
- AutoAPM Generator™ Software with one single-use software license and activation of the existing onsite USB key.

†Specifications and appearance are given as guidelines and may change without notice.



Above: Example of Antenna Pattern from a Chesapeake Bay SeaSonde as measured using AIS-Enabled AUTO-APM software (o) vs. that measured using a transponder (--). Auto-APM data was collected over several days.