

April, 2007

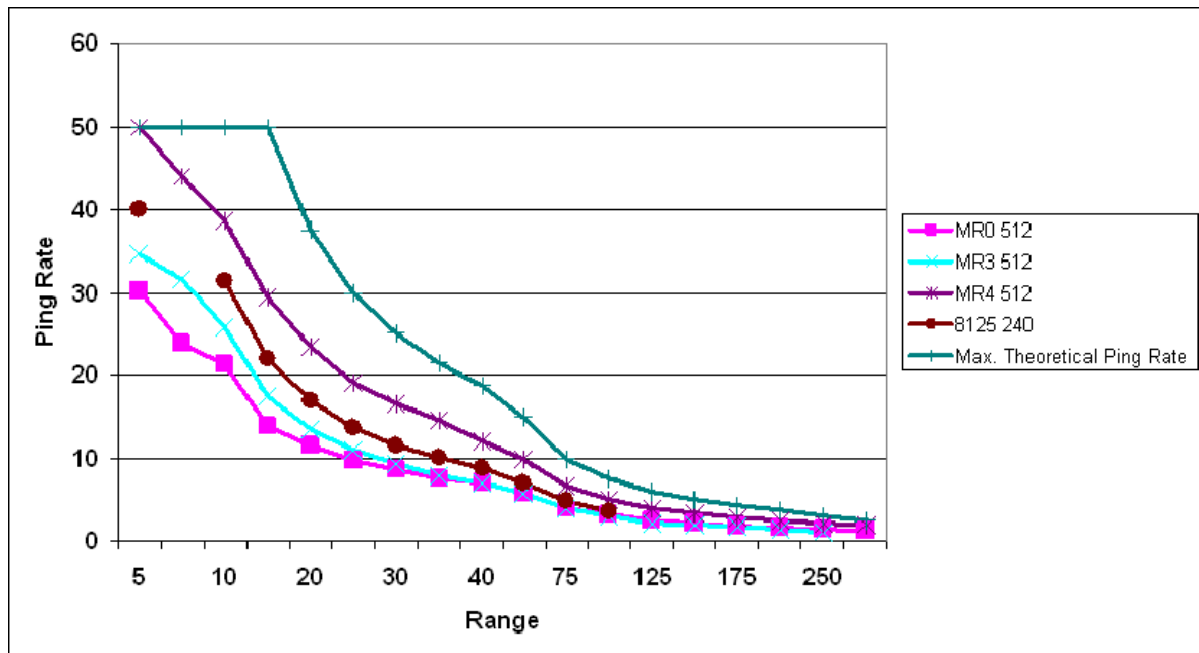
Release Notes

ICARUS Project

(Maintenance Release 4) for the SeaBat 7125

Maintenance Release 4 Item Descriptions

- **Improved Ping Rate.** The ping rate for the single-head system is moderately improved over the MR3 rates. Overall the ping rates are vastly improved over the original releases of the 8125 and 7125.

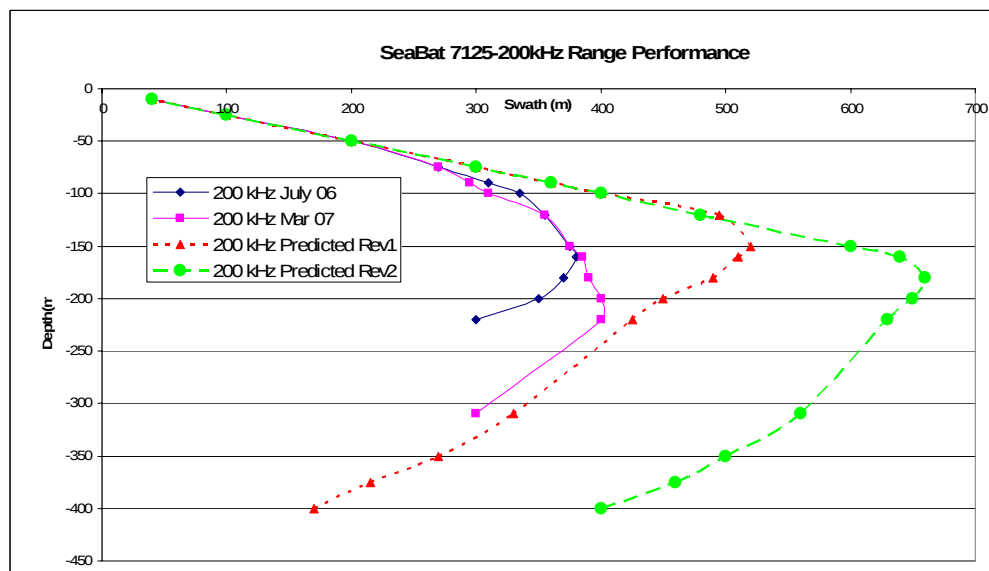


- **Built-In Test Environment (BITE) Functionality.** The BITE feature is available as a system upgrade. The upgrade can be performed at RESON or at the customer site by experienced RESON field support personnel or by a customer.
- **200 kHz.** Swath performance is improved. Equi-angle and Equi-distant modes are now standard.

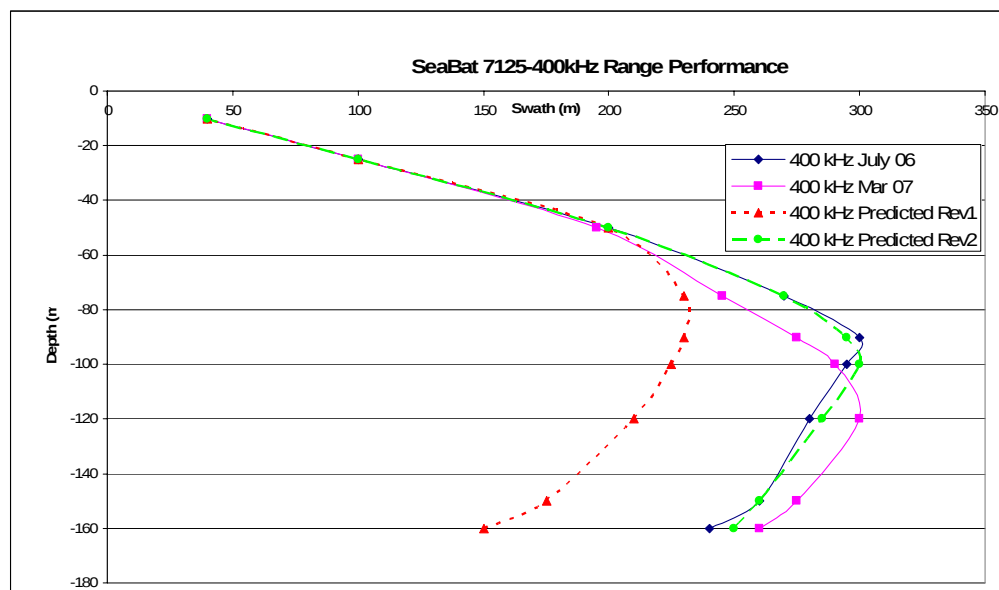


- **Improved System Stability.** The cause of many “freezing” issues is rectified by the removal of the PowerPC architecture. The software now handles power cycles of the wet end and restarts the system automatically once power is restored.
- **Revamped Firmware Architecture.** Modifications to the firmware architecture allow for “transfer-safe” loading of new firmware modules in Field, Production, or Service and Repair environments. All modules are affected. A Firmware Downloader utility is provided for user-friendly update process.
- **Improved Dual-Head Performance.** The performance of the dual-head system is increased. The overall ping rate between the two systems now approaches the ping rate performance of the single-head system.
- **Transmitter.** Improved safety of the transmitter control prevents duty-cycle overload.
- **Receiver TVG.** Fixed behavior of the TVG to increase swath performance.
- **System Sync.** Enhancements to the synchronization between the receiver and transmitter have improved bottom-detection accuracy.
- **Quality Flags.** Several improvements made to brightness quality and colinearity calculations on non-flat surfaces.
- **MR3 Investigations.** The results of the committed investigations from MR3 are released in MR4. These included UI delays, gating issues in bottom-detect, ROV power-cycle recovery, etc.
- **Trigger In/Out Functionality.** The triggers are enabled and disabled from the SeaBat7k User Interface. This feature requires the proper I/O processor hardware for the 7-P.

- **Swath Performance Verified.**



200 kHz Range Performance



400 kHz Range Performance