

# VOSS

Project Title: Vessel Optimization and Safety System (VOSS)

Primary Consortium Member: Sperry Marine, Inc.

Additional Contractor/Consortium Members: Ocean Systems, Inc.

Project Objectives/Overview: VOSS will integrate all shipboard navigation, passage planning, and real-time monitoring subsystems into a complete system, fully capable of deriving the current operating status of the ship and effectively communicating this knowledge to the operator. The project is intended to develop a vessel optimization and safety system that will measurably decrease voyage costs and reduce the risk of vessel and cargo damage and loss by establishing a vessel safe operating envelope that optimizes the balance between schedule and operating efficiency while meeting all necessary and prudent safety and environmental requirements.

Project Status: Ten VOSS Ship Borne Voyage Data Recorders (VDR) have been delivered and another 12 VDRs are on order. Additional sales are expected as the soon to be enacted SOLAS regulations will only improve the market for this product. Consortium members are deeply involved in International Electrotechnical Commission (IEC) standards development for VDR.

VOSS Vessel Performance Analysis routines are now in use at American President Lines, Ltd., American Ship Management, Matson Navigation Company, and Chevron Shipping Company.

In addition, the consortium expects to modify the cooperative agreement to include other shipboard testing of the VDR, Vessel Performance Analysis routines, and Weather Forecast & Voyage Route Planning System.

The U.S. Navy Space and Naval Warfare Systems Command has assigned to the VOSS Project the task of developing a prototype Smart Center Ship Routing Program (SSRP). The SSRP is a direct outgrowth of the VOSS Voyage Route Planning System.

Project Contacts:

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