



AXYS

Axys Environmental
Systems

A Division Of Axys Technologies Inc.

TRIAXYS DIRECTIONAL WAVE BUOY

**US NAVY SITE SPECIFIC REPORT SSR-2543-OCN
NAVAL FACILITIES ENGINEERING SERVICE CENTER
Port Hueneme, California**

“WAVE MEASUREMENTS DURING RANGE SUPPORT JANUARY 2000”

by

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EXECUTIVE SUMMARY

“...Comparison with a previous wave data collection survey using a Waverider directional wave buoy indicates that both buoys are acceptable for wave data collection. However the TRIAXYS wave buoy is the preferred choice because of its more rugged design and its more user-friendly software”

OBJECTIVE

“...The TRIAXYS wave buoy was selected for the wave measurement system because of its small size and rugged design.”

COMPARISON WITH PREVIOUS SURVEY

“The TRIAXYS system exhibited a number of advantages over the Datawell system:

- The TRIAXYS buoy is more rugged than the Datawell buoy and is therefore easier to deploy. We did not have to worry about rolling the buoy or snapping off the antenna during deployment and recovery operations of the TRIAXYS buoy.
- Ship structure, antenna location, and weather conditions affect data reception. Noting these differences between the two surveys, the TRIAXYS system was able to receive data at greater distances than the Datawell system. The TRIAXYS buoy also transmitted its GPS location, making it easier to track.
- The post-processing of wave data was easier using the TRIAXYS software than the Datawell software.
- AXYS Environmental Systems provided better technical support for these US based surveys than did Datawell

“...it should be noted that the Datawell wave measurement system provides an acceptable level of performance for wave data collection...and could be used for future surveys if the TRIAXYS system is unavailable.”