

18 May 2010

R/V WECOMA BEST PRACTICES EXAMPLES

SHIPYARD REPORT BINDER

The crew's documentation and records of the most recent shipyard period is exemplary. A binder is organized to contain a complete detailed specification, all relevant correspondence with the shipyard and vendors, all pricing information, record and reports of all tests and measurements, a narrative summary of what was accomplished and lessons learned.

DATA ACQUISITION SYSTEM

The marine technicians have designed a complete overhaul to the data acquisition system which will be a significant step forward. The networked based system is in an XML format. It also allows for simplified input into R2R and SAMOS. They are currently operating both systems while the new system is being fully implemented. A summary of the system can be found;

<http://tangle.coas.oregonstate.edu/martech/rvtec09/>

CRANE

The R/V WECOMA has recently installed an Allied Marine telescopic boom crane, model number TB60-70. This crane is similar to the cranes installed on the R/V KNORR. The crane has a safe working load (SWL) of 45,000 pounds at a minimum reach of 7.5 feet and a 7,000 SWL at a maximum reach of 69.7 feet (extending beyond the transom). The crane is outfitted with two monitoring systems provided by Cranesmart and 3PS Inc. The monitoring systems include a load cell, boom angle indicator and anti-2-block system. The monitoring systems indicate various alarms to the operator including, 2-block, excessive hook load, and % SWL as it relates to the extension of the crane boom. The installed crane meets or exceeds safety requirements and is adequately sized based on the vessel's size and mission requirements.

