

IMET STATUS – BUOY, R/V, VOS



□ SENSORS INCLUDE: WIND SP / DIR, BAR PRESS, REL HUM & AIR TEMP, PREC, SW RAD, LW RAD, AND SST

□ ONE MINUTE DATA RATE - 10 WATTS/METER SQ ACCURACY

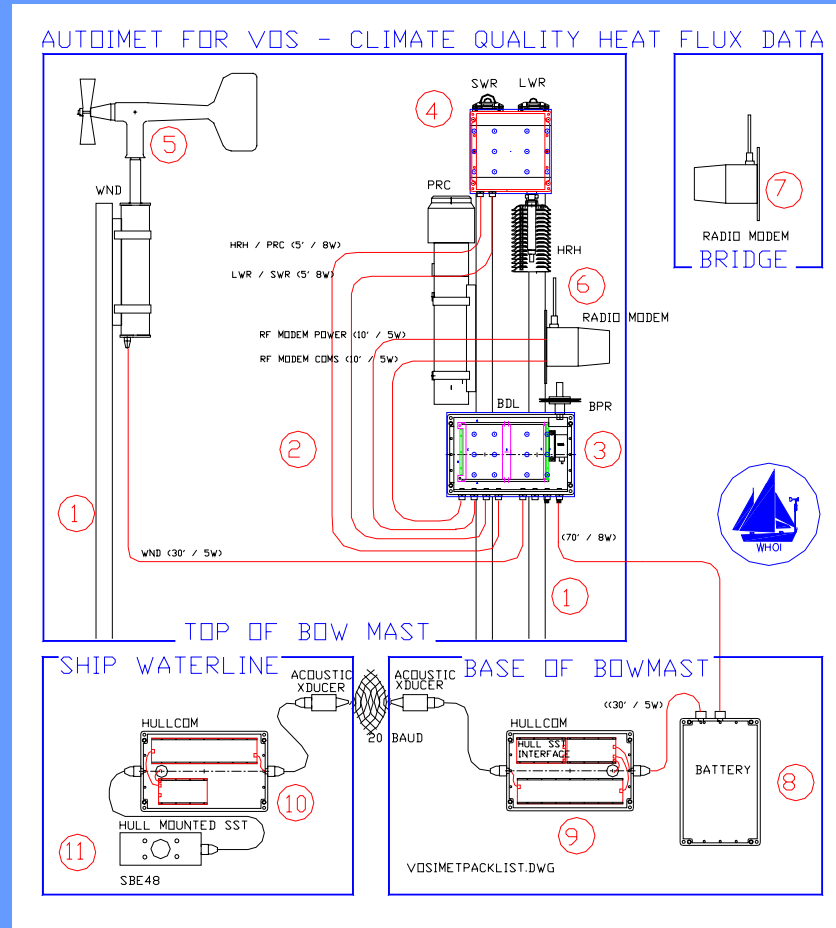
□ ADDRESSABLE DIGITAL DATA BUS AND INTERNAL CAL CONSTANTS



AUTOIMET SYSTEM FOR VOS

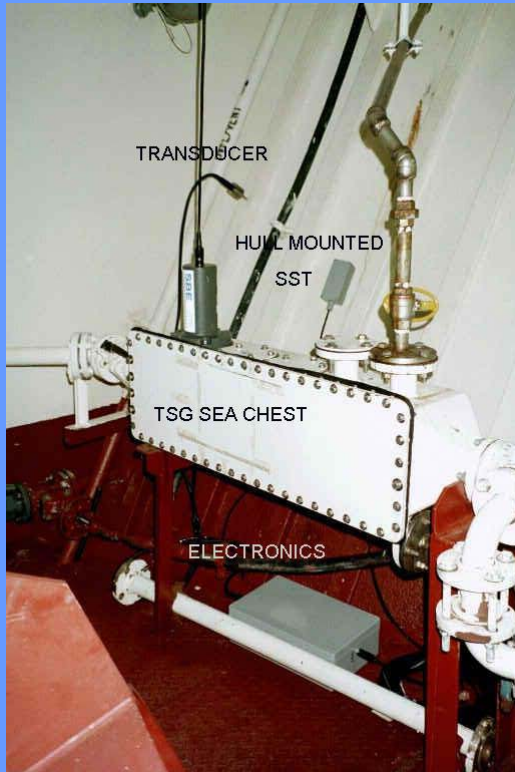


VOS SYSTEM HARDWARE



- ▣ SAME SENSORS AND ELECTRONICS AS ASIMET
- ▣ INTEGRATED LOWER COST PACKAGING
- ▣ WIRELESS COMMUNICATIONS FOR SST AND BRIDGE

SST HULLCOM INSTALLATIONS



NOAA R/V RON BROWN



SOC RRS JAMES CLARK ROSS



THE SOUTHAMPTON OCEANOGRAPHY CENTRE SHIP JAMES CLARK ROSS TRANSITED FROM THE UK TO THE FALKLANDS AND (AFTER ROBIN MODIFIED THE CODE) HAD A 99% DATA RETURN FROM THE SST TO THE LAB.

OPERATIONAL SYSTEMS

R/V IMET

□ WHOI

OCEANUS
KNORR
ATLANTIS

□ SIO

MELVILLE
REVELLE

□ UW

THOMPSON

□ NOAA

RON BROWN

OTHER

□ MBARI

□ RUTGERS LEO15

□ NDBC (TEST UNITS)

BUOY IMET

□ WHOI

3-METER DISCUS – 3 SYSTEMS
COASTAL BUOYS – 6 SYSTEMS

□ JAMSTEC

34 TAO BUOYS (WND, HRH, SWR)

□ USF

3-METER DISCUS - 2 SYSTEMS
2-6 MORE PLANNED

VOS IMET

□ CSX ENTERPRISE (PACIFIC)

STANDALONE MODULES
(UPGRADE TO AUTOIMET IN 2003)

□ COLUMBUS FLORIDA (PACIFIC)

STANDALONE MODULES
(UPGRADE TO AUTOIMET IN 2003)

□ ATLANTIC VOS #1 (2003)

AUTOIMET

□ PACIFIC VOS #3 (2004)

AUTOIMET



BUOYS



3-METER DISCUS WITH TWO COMPLETE ASIMET / LOGGER SYSTEMS. BATTERIES IN WELL ONE YEAR DEPLOYMENT



COASTAL BUOY WITH TITANIUM FRONT-END ONLY MODULES. LOGGER AND BATTERIES IN WELL HOUSINGS. 6 MONTH DEPLOYMENTS.



VOS



**STANDALONE
ASIMET MODULES ON
BOW MAST OF BOTH
SHIPS. WILL BE
UPGRADED TO AUTOIMET
IN 2003-2004**

**CSX ENTERPRISE LEAVING HAWAII
35 DAY CYCLE FROM OAKLAND /
HAWAII / GUAM / HONG KONG /
TAKOMA / OAKLAND.**

**COLUMBUS FLORIDA IN LONG
BEACH, CA. 56 DAY CYCLE FROM
LONG BEACH / NEW ZEALAND /
AUSTRALIA / TAKOMA / LONG BEACH.**





IMET DATA ACCURACY / PRECISION

<u>QUANTITY</u>	<u>ACCURACY</u>	<u>PRECISION</u>
• TEMPERATURES	0.01 DEG C	0.001 DEG C
• BAR PRESSURE	0.1 MB	0.01 MB
• WIND SPEED	2%	0.1 M/S
• WIND DIR	1 DEG TRUE	1 DEG
• REL HUMIDITY	2%	0.1 % RH
• RAIN	1 MM/HR	0.1 MM/HR
• SHORTWAVE RAD	2%	1 WATT/M ²
• LONGWAVE RAD	2%	1 WATT/M ²
• 1 MINUTE SAMPLE RATE ON BUOYS AND SHIPS		
• WOCE REQUIRES AVG ACCURACY OF 10 W/M ²		

MODULE CALIBRATION AND QC AT WHOI

- SOFTWARE UPGRADES INSTALLED AT TIME OF CALIBRATION
- REPAIR ON AN AT-COST BASIS
- MODULES CALIBRATED ONCE / YEAR FOR BUOYS AND
ONCE EVERY SIX MONTHS FOR VOS

