

APPENDIX 17. PowerPoint Presentation given by Lisa Hendrickson

**Measuring Gear
Performance
on the
*R/V Albatross IV***

Trawl Performance

Monitored during each tow

Data from sensors mounted on doors, wings and headrope are transmitted to the ship and logged into a computer file at set time intervals

- Quantitative Sensor Measurements**
- **Headrope Height** – distance between the headrope and footrope, vertical opening of net
 - **Wing Spread** – distance between the wings
 - **Door Spread** – distance between the doors
 - **Other parameters** – trawl speed, depth, and location

Trawl Performance

Monitored during each tow

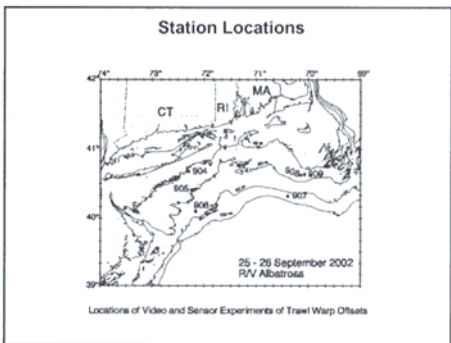
Data from sensors mounted on doors, wings and headrope are transmitted to the ship and logged into a computer file at set time intervals

Sensor data can be used to determine whether the net is operating properly

We will examine sensor data from the trawl warp offset study to evaluate gear performance

Gear Performance Charts

Data from six stations are presented in order of shallow to deep locations (46-91 m depth)



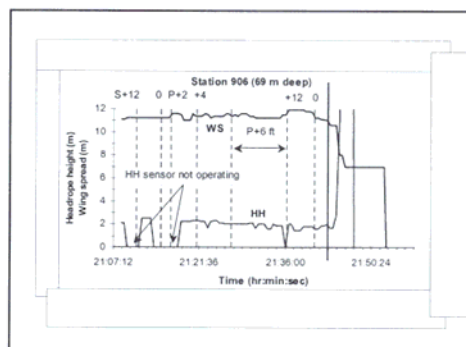
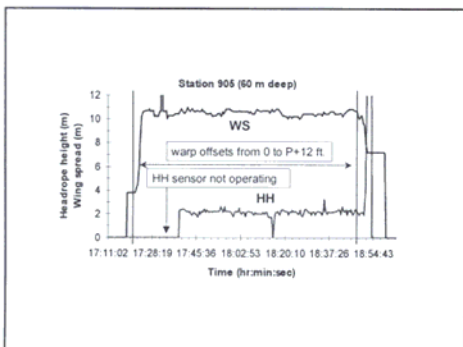
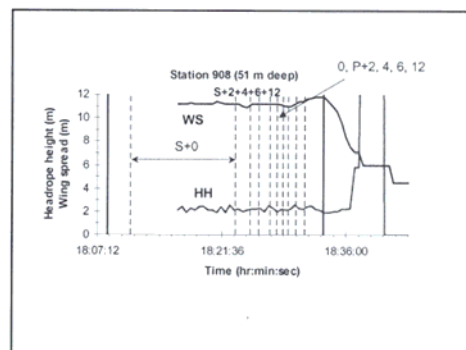
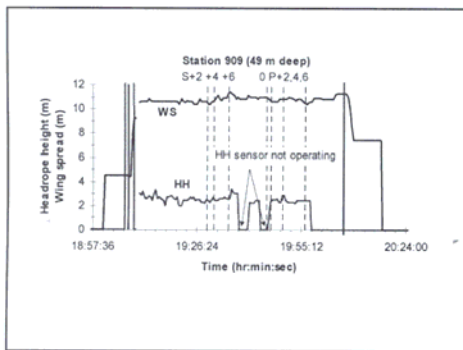
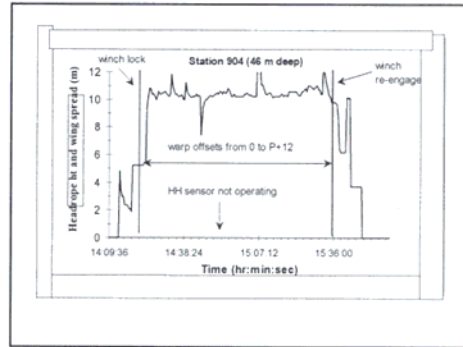
APPENDIX 17 (CONTINUED).

Gear Performance Charts

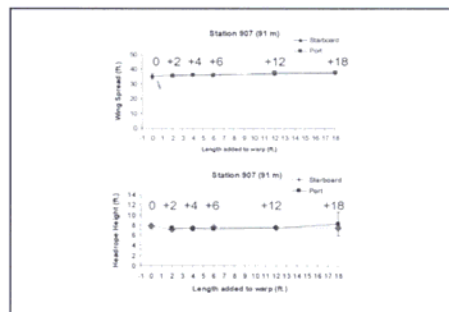
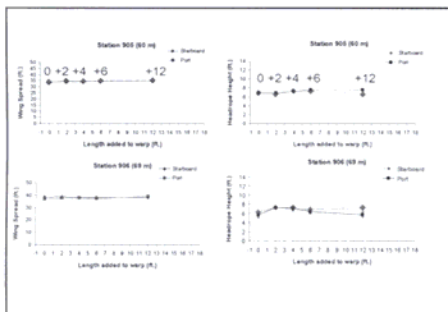
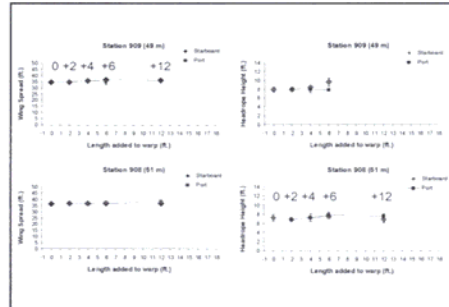
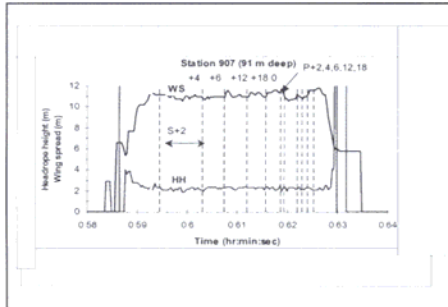
Data from six stations are presented in order of shallow to deep locations (46-91 m depth)

Changes over time, in HH and WS, are presented along with demarcations indicating the timing and type of trawl warp length offsets

DS and WS have a geometric relationship with one another; only WS data will be presented today



APPENDIX 17 (CONTINUED).



Summary

Mean HH and WS values were similar for port and starboard warp length offsets

There was no significant difference detected between WS means for warp length offsets of 0-6 ft. at depths of 46-91 m

There was no significant difference detected between HH means, at all but one station, for warp length offsets of 0-6 ft. at depths of 46-91 m

Summary

HH and WS means for warp length offsets of 12 and 18 ft. were not significantly different for some stations, but were for other stations