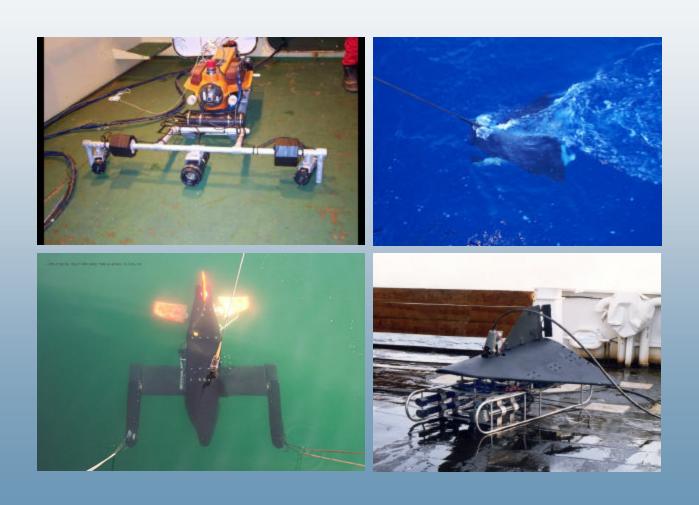
Flying Fish Video Plankton Recorder: A Systems And Operational Overview

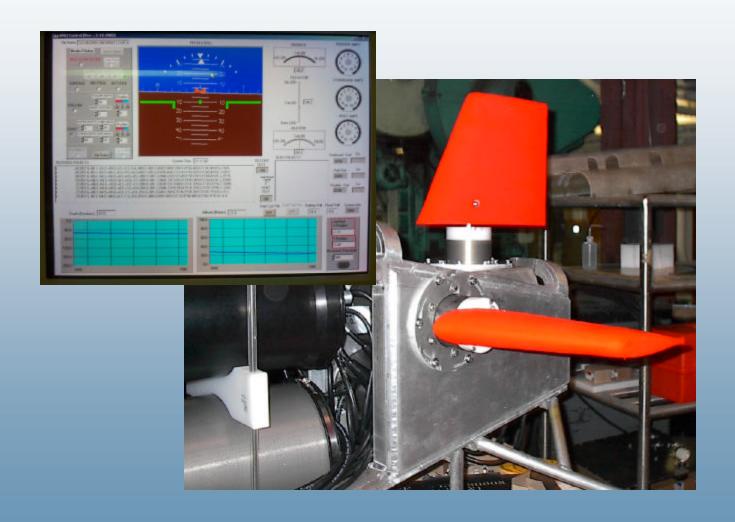
Joshua Eaton
INMARTECH 2006, Woods Hole, MA



Various types of VPRS

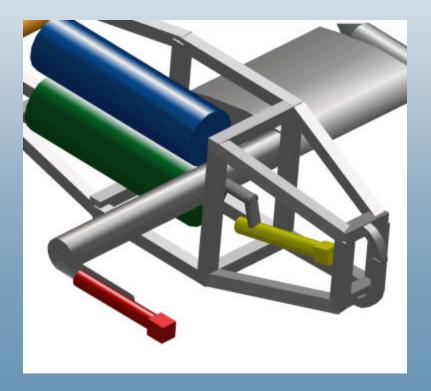


Flight Control



VPR Systems

Camera and Strobe



Instrument Suite



Surface Operations

Power Supply

Data Collection

Winch





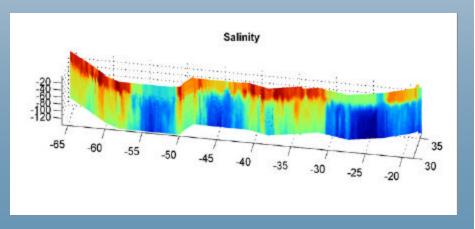


Need for the Instrument

Actual Pictures of Plankton Real Time Environmental Data Long Range Survey Tool







Typical Deployment

Launch

- •6 Knots
- •7 People
- •45 Minutes
- •600 Meters of Wire out



Operations

- •10 Knots
- •2 On Watch Plus Gawkers
- Low Ship Maneuverability



Typical Deployment

Recovery

- •6 Knots
- •8 People
- •45 Minutes



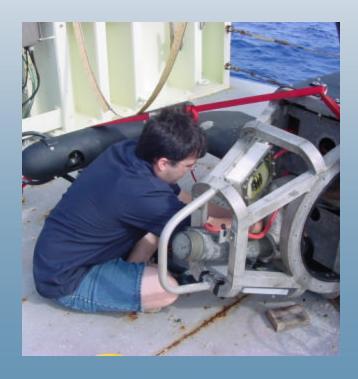




Typical Problems

- Dirty Fiber Optic Connection
- Servo Leak
- Loose Fairing
- Termination





System Improvements

Science Requested

- Mission Specific Sensors
- Oxygen Sensor
- •PH Sensor
- Greater Depth

Engineering

- Roll Control
- Larger Winch



Questions

