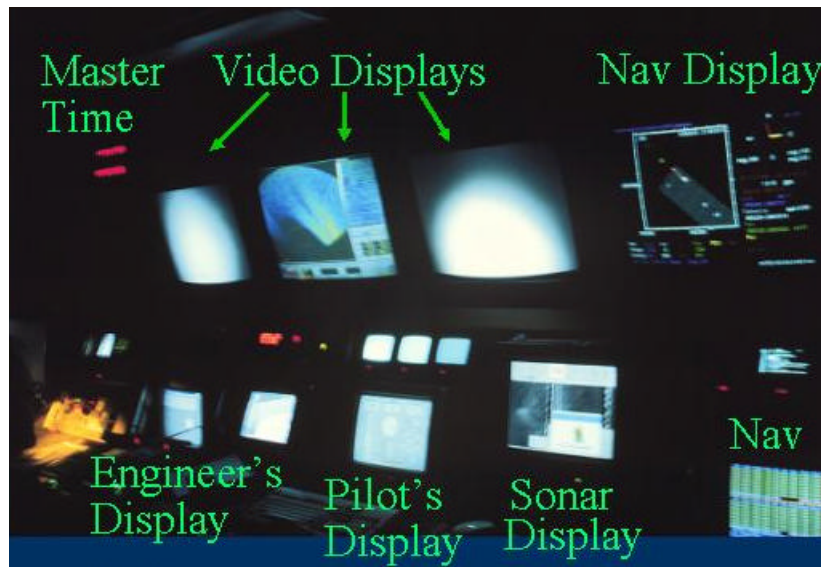


Jason Control Van



The Control Van is where Pilots, Navigators, and Engineers control remotely operated vehicles (ROV) such as Jason and Argo. Scientists use these vehicles for underwater scientific research.

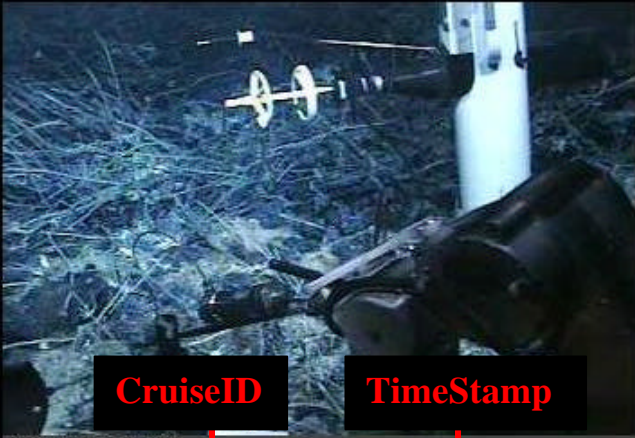


There is a wealth of information available in the Control Van during ROV operations. This information includes live Video Displays, Navigation Data, Vehicle Data, Scientific Instrument Data, and Events that are entered by Scientists. All of this information is captured and indexed using a Master Time clock. The Virtual Van is a web-based application that takes snapshots of the information that occurs inside the Control Van during vehicle operations and makes this information available for Scientists and the Public on the web.

Virtual Jason Control Van

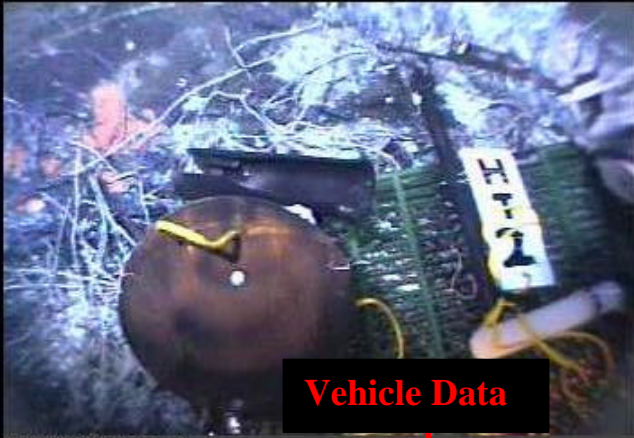


Video Displays



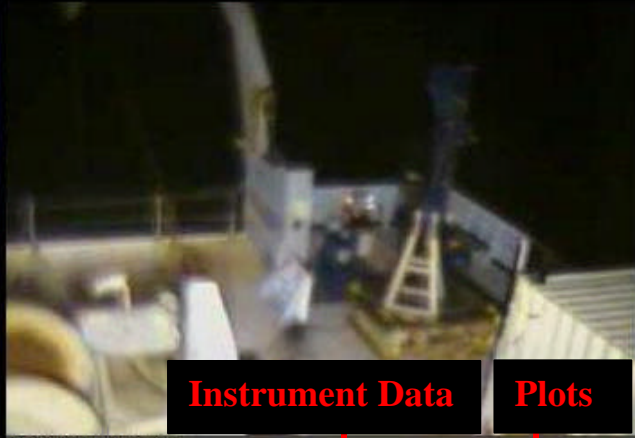
CruiseID **TimeStamp**

MONITOR 1: SubSea1



Vehicle Data

MONITOR 2: SubSea2



Instrument Data **Plots**

MONITOR 3: DeckCam

DAQ:TN117.Jason	Time: 2000/10/05 07:44:15	Lat: 48 4.174754 N Lon: 129 6.073774 W	Gyro: 291.458 Compass: 293.600	Alt: 0.7 Depth: 2191.024	DegC: 1.9739 Cond: 3.13866 Salin: 35.7985 SVel: 1459.030 MagX: -48073.3 MagY: -1440.0 MagZ: 19633.3 MagT: 51947.9	Plot Maps Daily / Hourly Local Area Synch Results
Type: EVT NavSrc: JAS AttSrc: JAS		X: 492458.89 Y: 5324038.67 Z: 9999.99 Pitch: 3.098 Roll: 8.947 Bathy: 2191.724				
Event: 492458.89 5324038.67 OK 2191.024 0.7 291.458 Clam Bed 2.6C flow next to MAV						

← Event Data

◆ show all
◇ results only

5211 of 9241
◀
▶

FIRST
STOP
PLAY
DISPLAY
LAST

[Show Calendar](#)

5211. 2000/10/05 07:44:15 EVT 2191.024 0.7 291.458 Clam Bed 2.6C flow next to MAV
 5212. 2000/10/05 07:44:36 EVT 2191.051 0.7 291.746 Clam Bed 3.6 C maximum
 5213. 2000/10/05 07:45:19 ASNAP
 5214. 2000/10/05 07:46:09 EVT 2191.061 0.7 291.091 VID_GRAB

↑ Control Panel
← Event List

Johnson2000 - Juan de Fuca

CRUISE INFO | SELECT ANOTHER CRUISE

Jason Virtual Control Van

Virtual Van Capabilities

- **Real-time Monitoring of Control Van for Scientific use and Public Outreach**
- **Provide On-line Integrated Cruise Synopsis**
- **Search Capabilities – Keyword, Time, Events**
- **Plot Capabilities – Geographic and Time series Plots**
- **Cruise Synopsis Repository Available On-Ship and On-Shore**
- **Built-in Automatic Data Acquisition System**
- **Support Real-Time Playback of Prior Cruise Data**

Scientific Applications

- **Real-time searchable data access for dive planning**
- **Integrated events, video snapshots, and vehicle data
for rapid searching and data analysis**
- **Plotting capabilities for quality assurance and anomaly detection**
- **Easily locate specific data within data archive (eg; video clips)**

Future Capabilities and Applications

- **Develop Public Outreach User Interface**
- **Integrate with SeaNet for Live Remote Access**
- **Enhance Virtual Van Prototype**
 - **Support for Video and Audio clips**
 - **Additional plotting capabilities**
 - **Algorithm development, data mining, etc.**
- **Integrate with other vehicles such as AUVs, Alvin, etc.**

