USA Data Assembly Center
& Atlantic Deployments
at AOML

(NOAA/AOML and CIMAS/UM)
presented by
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How an Argo float works
Data flow
Real-time processing system
System Monitoring

• Short email reports from each process.
• Log files for problem solving.
• Web page for documentation, monitoring, visualization and data distribution:
  www.aoml.noaa.gov/phod/ARGO//HomePage/
Global US Argo profiles collected in

April 22 – May 3 2005
Plots by float

Trajectory plots

Automatic quality control

1. Platform Identification
2. Impossible Date
3. Impossible Location
4. Position on Land
5. Impossible Speed
6. Global Range
7. Regional Global Parameter (Red Sea, Mediterranean Sea)
8. Pressure Increasing

Documents are at http://www.ifremer.fr/coriolis/cdc/argo_rfc.htm
Automatic quality control

9. Spike Test
10. Top and Bottom Spike
11. Gradient Test
12. Digit Rollover test
13. Stuck Value test
14. Density Inversion test
15. Grey List
16. Gross Salinity or Temperature Sensor Drift Test
17. Frozen profile test – to be adopted

Documents are at http://www.ifremer.fr/coriolis/cdc/argo_rfc.htm
Visual quality control
Quality control statistics

Period of time by years

Number of profiles

- failed auto QC
- passed Visual QC (went to GTS)
Atlantic Ocean deployments

AOML is responsible for the deployment of the floats produced and provided by WHOI.

This includes:

• Look for deployment opportunities (VOS and R/V)
• Choose the deployment sites
• Provide a rider to perform the deployments.
Atlantic Argo floats deployed by AOML since January 1, 2005

Plans for Atlantic deployments during 2005: 100 floats.
The positions of the active floats in the Atlantic Ocean (as of May 2005)

Blue points USA floats
Red points All other countries.

The number of floats have increased gradually, at this moment there are about 500 floats working in the Atlantic Ocean.

Lines available for Deployment in 2005