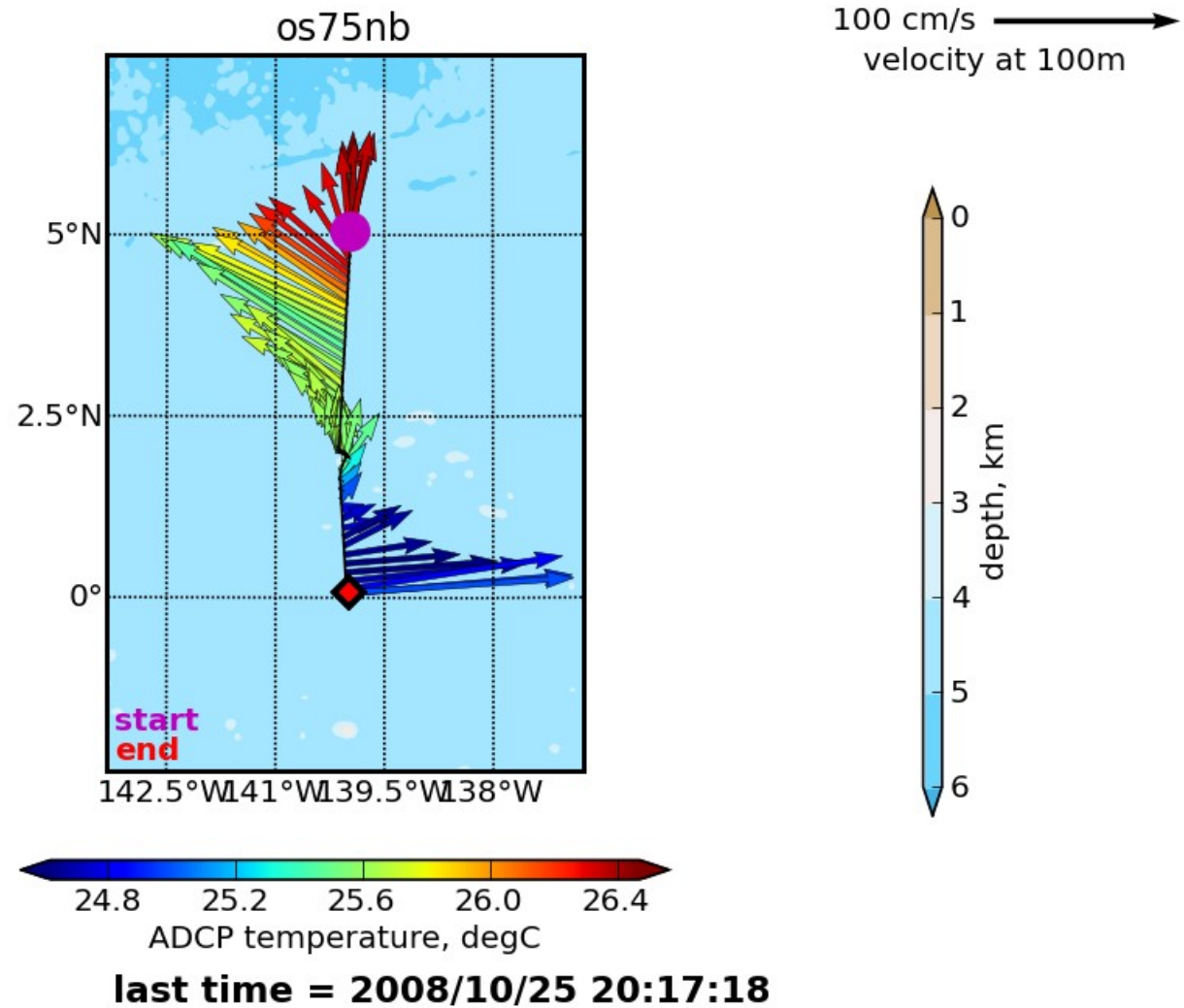


Shipboard ADCP Systems: Status Report

UHDAS Overview

- 2 antarctic ships, 3 NOAA ships, 8 UNOLS ships
- computer at sea provides
 - near real-time processed data for science as:
 - plots on the ship's web
 - matlab files accessible via http, samba, nfs
 - real-time raw data via samba, nfs
 - daily email with system status and data snippet
 - documentation of processing programs used
 - all the code used, via samba and nfs

Example of data from a ship at sea



UHDAS installations

UHDAS daily figures and status from ships

2008 schedules			installed	updated	instruments
N.B.Palmer	figures	daily report	Oct 2004	July 2008	NB150, (OS38)
L.M.Gould	figures	daily report	Nov 2004	July 2008	NB150, OS38
Atlantis	figures	daily report	Jan 2006	July 2008	OS75
Knorr	figures	daily report	April 2005	Aug 2008	NB150, OS75
Oceanus	figures	daily report	Jan 2006	Apr 2006	OS75
Thompson	figures	daily report	Nov 2005	Oct 2008	OS75
Wecoma	figures	daily report	April 2006	Oct 2008	WH300, OS75
Revelle	figures	daily report	Jan 2005	Feb 2008	NB150
Melville	figures	daily report	March 2006	Aug 2008	OS150, OS75
Kilo Moana	figures	daily report	Aug 2003	Aug 2008	WH300, OS38
Ka`imimoana	figures	daily report	May 2006	Aug 2008	OS75
Hi`ialakai	figures	daily report	Jan 2006	Apr 2008	OS75
Ron Brown	figures	daily report	Sept 2007	Dec 2007	OS75
Ka`imikai O Kanaloa	(no email)		July 2004	Sept 2007	(NB150)

ADCP Status

Anomalies to monitor

- Thompson (variable scale factor)
- Melville OS150 (intermittent data loss on station)
- Wecoma (scale factor a bit high)
- Ashtechs (always monitor)

Recommendations

- upgrade firmware to 23.16

UHDAS Status: Operating system distribution

Almost all now running Ubuntu

- 9 running Hardy 8.04 (not yet obsolete)
- 3 running Feisty 7.04
- 1 still on Mandriva (change in January)

UHDAS Status: Capabilities

Added

- Trigger the ADCP from another acoustic device

UHDAS Status: Graphics

Weaning from Matlab

- land-based plots all Python
- shipboard plots all Python
- continue to improve Python toolbox

UHDAS Status: Documentation

Improvements regarding...

- access to data
- troubleshooting
- calibration
- installation of UH CODAS processing programs

Error reporting from the ship

- uptime, ntp status
- logrotate, status (ERROR, WARNING...)
- heading device status
- processing status

UHDAS Status: Ships consulted

Interaction with techs

- “Hey: your ashtech is down”
- “Hey: your plots are not updating”
- new operator, general query
- bad serial port, input device changed, networking change
- ntp problem
- instrument problem or replacement
- settings (what can be changed)
- new computer/ new installation/ upgrade installation

UHDAS Status: Scientists consulted

Interaction with Scientists

- setting up and using UH CODAS software
- how to read the data
- accessing data at sea
- data quality (from UHDAS installations)
- data quality (from other installations)

UHDAS/ADCP Summary

ADCPs are generally working

- still need to be monitored
- ancillary inputs need to be monitored

ADCP recommendations

- upgrade firmware
- two frequencies: better than one
- accurate heading device: get one, monitor it

Send your needy scientists to Jules