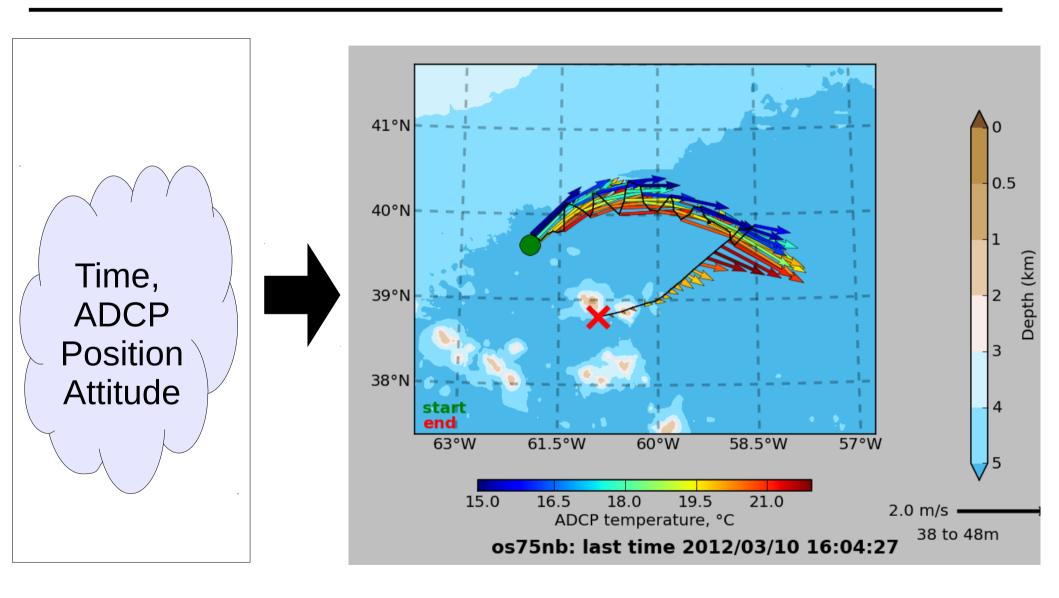
### RVTEC Nov 2014 – UHDAS/ADCP



primitive data

ocean velocities

#### **UHDAS/ADCP** status

#### **Review UHDAS Concept:**

- Acquisition: reliable, robust, duplicate feeds
- Monitoring and remote troubleshooting
- Processing
  - Balance real-time output and post-cruise recovery
  - Minimal effort to "touch up" (if all goes well)
  - Portable code and documentation
- Happy Scientists, Techs

#### More information:

Improve ADCP data – (Wed Nov 19 13:15) ADCP and Echosounder Tools and Tips Acoustic Interference – (Thurs Nov 20 09:45) Sonar Interference

### UHDAS Systems (2014)

- 16 UNOLS ships: Atlantic Explorer, Atlantis, Endeavor, Kilo Moana, Knorr, Langseth, Melville, New Horizon, Oceanus, Pelican, Point Sur, R.Revelle, Sikuliaq, R.G.Sproul, T.G.Thompson, F.G.Walton Smith
- 3 polar ships: Healy, L.M.Gould, N.B.Palmer
- 2 NOAA ships: Hi`ialakai, Ron Brown
- 2 "other" ships: Ka`imikai O Kanaloa, Falkor
- 1 "cooperative" installation Tioga

## UHDAS Systems: changes in 2014

- Moved up to Ubuntu 14.04
- "futurized" for Python2/Python3 Compatibility

- Newly installed (new ship): Pelican, Sikuliaq, Falkor
- Updated in 2014:
  - 12.04: Oceanus, Healy, Endeavor
  - **14.04:** Kilo Moana, KOK, New Horizon, R.Revelle, F.G.Walton Smith, L.M.Gould, N.B.Palmer, Ron Brown

### Problems-2014 (some ongoing)

- Langseth (OS75 broken 2013, repaired, still broken)
- Hi`ialakai (yard period, cable stepped on/broken)
- Ron Brown (ADCP out/ADCP in; broken)
- Walton Smith (WH1200 delivered mute from RDI)
- Healy Headings (Ashtech kept working)

### Other random notes:

- Most Improved: Walton Smith
  - POSMV is 100% good!
  - WH600 replaced
- Remote Install: Revelle (First remote install at SIO)
- Calibration by comparison (Revelle, Walton Smith)
- Scientists using virtual computer at sea (Oceanus)

### **New Ships (2015)**

- Sally Ride
- Neil Armstrong

- Preparing to Install UHDAS on NOAA ships
  - 15 ships over 3 years
  - hire new person

### New Challenges (2015)

- Acoustic Interference
  - NOAA ships with EK60 mandate
  - Sikuliaq, Sally Ride, Neil Armstrong
    - Kongsburg = Sonar Integrator
    - Large number of modern sonars

### Continuing Request: Keep us in the loop regarding

- New ADCP (requires configuration, calibration)
  - Includes special needs by Science
- Changes in serial feeds
- New attitude devices (we like to evaluate them)
- changes in networking
  - route to ship
  - infrastructure on ship

#### Protocol

- Always run "End Cruise" before archiving
- If rsync (regular backup)
  - ALWAYS use complete cruise name

# Final request

... as always:

Send your needy scientists to Jules

