## Visual Quality Control of XBT Data at AOML

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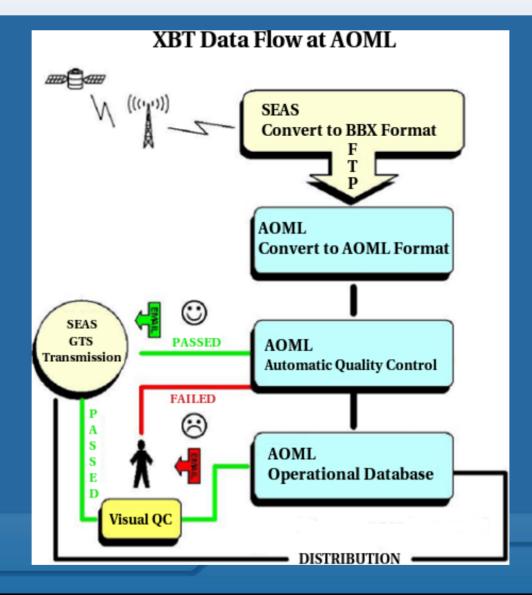






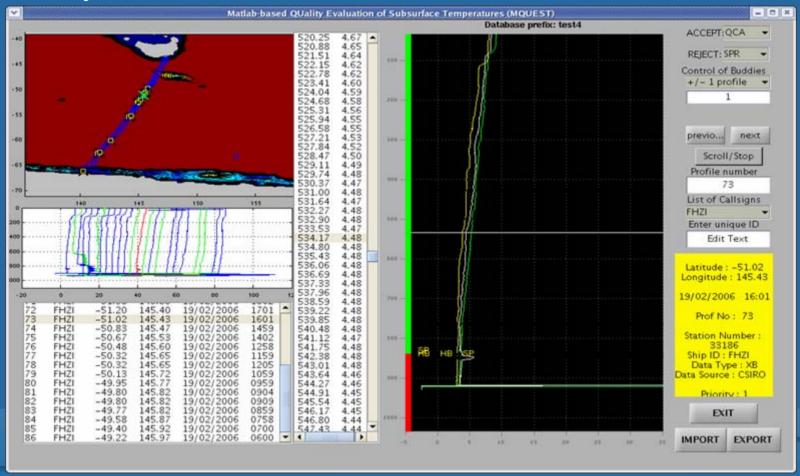
#### XBT Data Flow



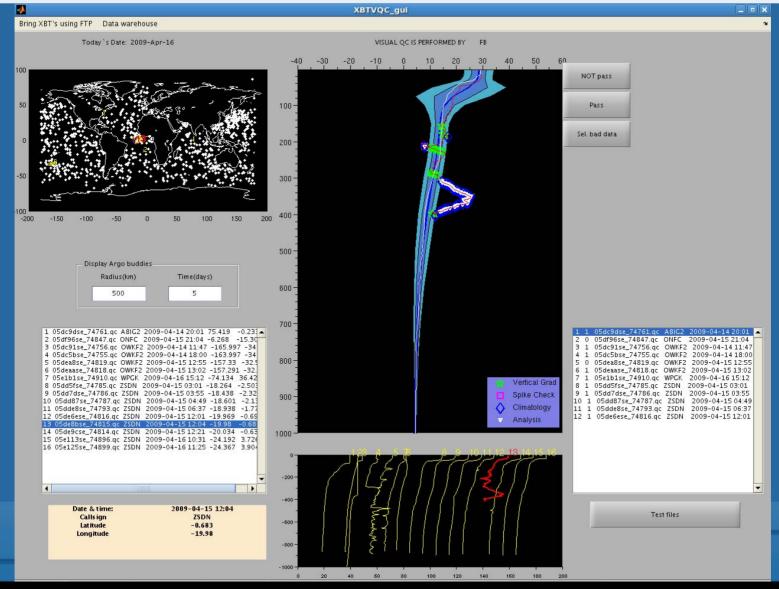




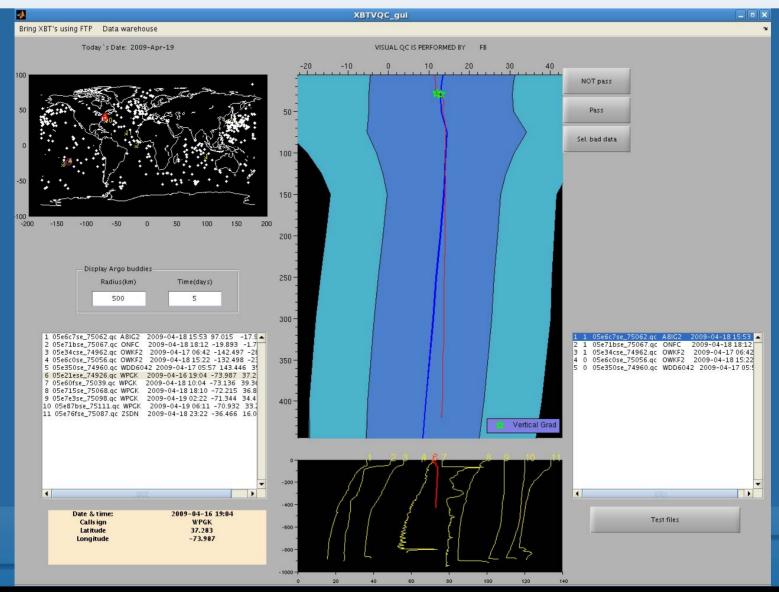
# SCIRO VQC software: MQUEST courtesy of Ann Thresher



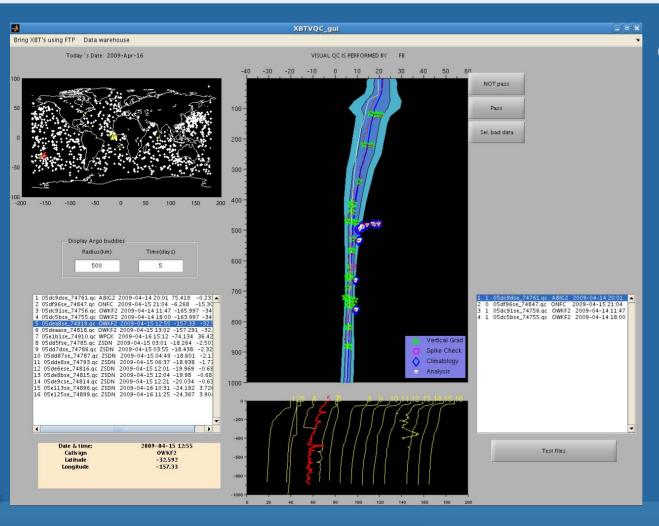










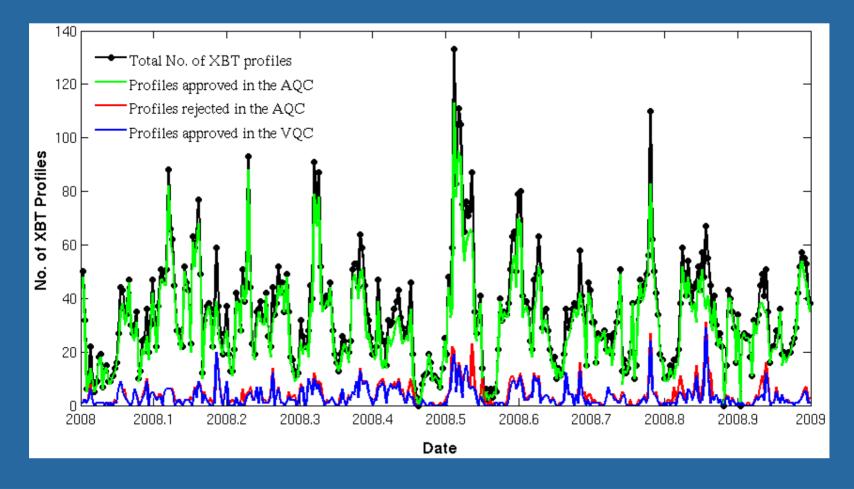


#### Check for:

- Spikes
- Gradients
- Buddies
- Location
- Climatology + Standard deviation

#### **XBT Quality Control Statistics**





#### XBT Quality Control Statistics



Statistics of XBT profiles during 2008

	max/day	mean	sum	percentage
Total No. of profiles	133	33.6	12258	
Profiles Approved in the AQC	113	29.6	10801	(88.1%)*
Profiles rejected in the AQC	31	4.0	1456	(11.9%)*
Profiles approved in the VQC	29	3.1	1136	(77.5%)**
Total No. of profiles to the	GTS		11937	(97.4%)*

<sup>\*</sup> relative to the total no. of profiles received

<sup>\*\*</sup> relative to the no. of profiles rejected in the Auto QC

#### **Future Plans**



 Continue the collaboration and share expertise with other institutions.

- Modify this software to be used for the QC of XBT profiles for scientific purposes.
- Flag points in the profiles before submission to the GTS once BUFR transmissions are implemented.

#### **Future Plans**



