

## SOOP Report for 2008

USA

a. Programme description:			
Line	Agency	Sampling programme and mode (if applicable)	No. of ships
AX10	SOO SEAS/AOML	HD	1
AX10	SOO SEAS/AOML	FR	1
AX18	SOO SEAS/AOML	HD	1
AX22	SOO SEAS/AOML	HD	2
AX25	SOO SEAS/AOML	HD	1
AX32	SOO SEAS/AOML	HD	1
AX32	SOO SEAS/AOML	FR	1
AX07	SOO SEAS/AOML	HD	2
AX07	SOO SEAS/AOML	FR	2
AX08	SOO SEAS/AOML	HD	2
AX08	SOO SEAS/AOML	FR	2
IX15	SOO SEAS/SIO	HD	1
IX21	SOO SEAS/SIO	HD	1
IX31	SOO SEAS/SIO	HD	1
IX06	SOO SEAS/SIO	HD	1
PX50	SOO SEAS/SIO	HD	1
PX10	SOO SEAS/SIO	HD	1
PX10	SOO SEAS/AOML	FR	2
PX13	SOO SEAS/SIO	HD	1
PX13	SOO SEAS/AOML	FR	2
PX26	SOO SEAS/AOML	FR	2
PX28	SOO SEAS/SIO	FR	1
PX31	SOO SEAS/SIO	HD	1
PX31	SOO SEAS/AOML	FR	1
PX37	SOO SEAS/SIO	HD	1

PX37	SOO SEAS/AOML	FR	2
PX44	SOO SEAS/SIO	HD	1
PX44	SOO SEAS/AOML	FR	2
PX06	SOO SEAS/SIO	HD	1
PX08	SOO SEAS/SIO	HD	2
PX08	SOO SEAS/AOML	FR	2
PX83	SOO SEAS/AOML	FR	1

**b. Data management**

Agency	No. of JJVV messages on the GTS in 2007	Location of delayed-mode data
NOAA/AOML-SEAS	6886	NODC/AOML/SIO/CSIRO
SIO-SEAS	5096	NODC/AOML/SIO/CSIRO

**c. Major challenges and difficulties:**

- A real time transmission and quality control procedure for the thermosalinograph (TSG) data collected on board the cargo ships is being implemented.
- Transect AX18 (Buenos Aires to Cape Town) has demonstrated to be a serious challenge as it is very difficult to find ships doing this route. An alternate route between Cape Town and Santos (AX17) is being done when ships are available.
- The Skógafoss was lost to ship traffic realignment plans. This particular ship participated in high and low density XBT sampling, atmospheric and oceanic carbon dioxide and thermosalinograph programs at high latitudes in the Atlantic Ocean, so it was a major loss to multiple programs within SOOP. We are currently working to recruit the Reykjafoss that transits the same route.
- Recruiting ships for high density transect PX50 still continues to be a problem.
- Most data from deployments by international collaborators continue not being transmitted into the GTS.

**d. Research / development / testing:**

- After completion of the transition from SEAS-IV to SEAS 2000 data acquisition software, all SEAS expendable bathythermograph (XBT) data continue being transmitted from SOO to NOAA in full resolution profiles and all data are placed into the GTS by NOAA. We are now testing Iridium satellite transmission protocols for TSG and XBT data collected with SEAS 2000 on the Oleander and on AX10.
- We will test BUFR format transmission with XBT and TSG data during 2008.

**e. Other comments:**

- We continue to participate in collaborative programs with other institutions involved with XBT programs. Our contribution to the collaboration comes in the form of donating probes and supporting equipment when needed in exchange for management and ship greeting services. In particular we shipped 324 probes to IRD/Noumea, 540 probes to IRD/Brest, 324 probes to Brazil, and 648 probes to Australia.
- XBT transects will be re-evaluated following international and regional scientific panel recommendations, that will be discussed during the upcoming OceanObs meeting to be held in Venice in September 2009.