Some history

• Began in 2001

• Objective is to
  • build a comprehensive archive of surface underway ocean data (for the moment only SSS & SST have been taken into account
  • to add value by building standardized QC procedures
  • to provide data in a timely way to users
  • to improve data acquisition
  • to work with science programs and users interested in the data
Partnership

• At the beginning the Project relied on the experience gained by
  • IRD for maintaining a merchant ship network (10 vessels: more than 30 years of experience)
  • MEDS for monitoring the data that circulate on the GTS
  • Coriolis for managing an ocean *in situ* database
  • US-NODC for final archiving and repository

• Second step focused on:
  • find new data providers (European projects or partners)
  • in this context a common approach on data exchanges was scheduled with SAMOS but effort must still be carried on
  • monitor the data that circulate on the GTS to track SeaKeepers data (2 links to the GTS have been implemented)
  • other contacts have been taken (IODE, FerryBox,...)
Statistics

data archived at the GDAC

(number of locations per year)

locations

number of locations per year

1989 1991 1993 1995 1997 1999 2001 2003 2005 2007
Statistics

-38 vessels have reported data in 2007
  - 14 research vessels
  - 28 merchant ships
  - 17 have reported directly to the GDAC
  - 21 have inserted data through the GTS

- Details on the ships that have reported data in 2007 are available in the GOSUD Annual report (http://www.gosud.org)
Statistics

Map of data received in 2007 at the GDAC

-The increase of the amount of data observed in 2006 is confirmed in 2007 (more than 500,000 locations)

- They are more data that were reported on the GTS in 2007 than in 2006

- Good news: data from new ships are now reported to the GDAC (via the GTS or directly): Poseidon – Germany- 4 Seakeepers

- Bad news: some institute may have difficulties to maintain an operational system reporting regularly. Data are sent from time to time

- In 2007, no more delayed mode data have been sent to the GDAC than previously
Data access

A global repository center has been developed hosted by US-NODC. Synchronization is performed daily between the global server and the repository server.

See [http://www.ifremer.fr/gosud/gdac.htm](http://www.ifremer.fr/gosud/gdac.htm) to view where the Gosud data are distributed.


The GDAC is also receiving data directly from some countries and these data form the content of the archives.

Map of data received from 2000 to 2007 at the GDAC
Data delivery

-The GDAC don’t track the users of the GOSUD dataset
- Data are delivered through the GOSUD web and ftp sites but are also distributed on a daily basis as part of a global dataset which includes other datasets such as moorings, vertical profiles (Argo, XBT, CTD)
- Data that reaches the GDAC directly prior any other distribution are also inserted on the GTS (trackob format)
- A global repository center has been developed hosted by US-NODC. Synchronization is performed daily between the global server and the repository server.

See [http://www.ifremer.fr/gosud/gdac.htm](http://www.ifremer.fr/gosud/gdac.htm) to view where the Gosud data are distributed.


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**Plans**

- We must go on with the data from NOAA vessels
- Encourage new data providers to make their data available
  - A simple format (ASCII) is available for those who want to send their data to the GDAC (obviously it is not mandatory to use it)
  - A FerryBox project workshop (UK) will be held on the 30th of September 2008. Gosud will be represented
  - The non governmental agency VOS-Nippon contacted GOSUD to deliver their data. Questions of masking “call sign” must be solved before going ahead
  - Australia is a potential provider
Plans

- Answer to the user’s requirements and check that the satellite community needs are taken in account
  - A new GOSUD format will be proposed. It will allow to manage:
    - Data in a single file that corresponds to a unique period of installation (same instrument on the same ship)
    - Both near real-time and delayed mode data
    - Data and corresponding meta-data (it is planned to use the ODAS-Meta-T recommendations)
    - Matching SAMOS & GOSUD data will be addressed
  - A method to elaborate a delayed mode data set will be presented by IRD (taking in account water samples when available)
Plans

- Products
  - How to integrate SST and SSS to existing products such as objective analysis?

- Other products?