

Objectives of GOSUD

- To build a comprehensive archive for surface data and associated metadata;
- To add value to the archive by refining and standardizing existing quality assessment procedures;
- To provide data and information to users in a timely fashion;
- To work with data collectors to improve the data acquisition systems;
- To work with scientific organizations to provide products to a broad community.

Benefits of GOSUD

The GOSUD project will benefit data managers and data users at the global, regional and national level. These benefits include:

- Complete and timely data available to produce the reliable and accurate operational products for human safety and environmental protection;
- Standardization of quality control procedures, data formats and processing methodologies to simplify data exchange;
- Development of new methods and technologies in communications, software applications, quality control and data management;
- Improved quality of data due to standardized procedures.

To participate in the GOSUD project, contact:

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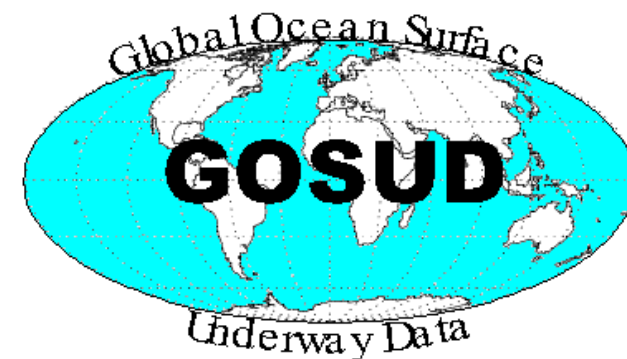
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More information is available on the GOSUD web site:

<http://www.ifremer.fr/sismer/program/gosud>



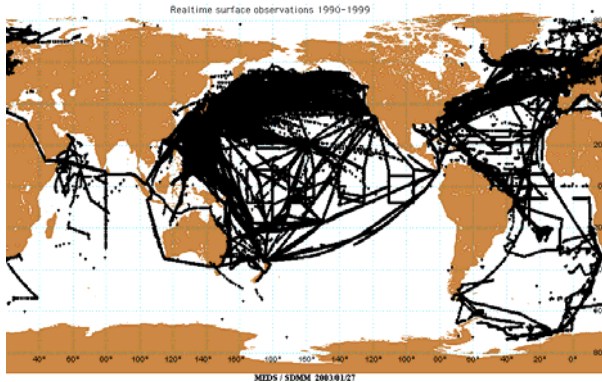
GOSUD is a project of the International Oceanographic Data and Information Exchange (IODE) programme of the Intergovernmental Oceanographic Commission (IOC) of UNESCO



Global Ocean Surface Underway Data Project



The GOSUD project is an end-to-end system for data collected from ships as they traverse their ocean tracks. The goal of GOSUD is to develop and implement a data system for ocean surface data, to acquire and manage these data and to provide a mechanism to integrate these data with other types of data collected in the world oceans.



The project will seek to organize underway surface data that are currently collected and to work with data collectors to improve data collection to meet the benchmarks of spatial and temporal sampling and data accuracies set out by the Ocean Observations Panel for Climate (OOPC). Shipboard thermosalinographs are currently mounted in research and ship-of-opportunity vessels to record sea surface temperature (SST) and sea surface salinity (SSS). Sensors to collect other surface variables will also be included as they are developed.

Cooperation with other Programmes

Data collected by other programmes will complement the data collected by the GOSUD project. These include GTSP, GODAR and Argo. For programmes where the

collection of surface underway data may be an important component, such as CLIVAR and GODAE, GOSUD can provide the data management infrastructure. Salinity data managed by GOSUD will be of direct benefit in the calibration of sensors for satellite programmes that measure surface salinity from space. Other global programmes, such as JCOMM and GOOS, will also benefit from the data systems developed by GOSUD.

GOSUD Data Variables

The project will deal with the broad issue of handling data collected while a platform is underway. There are a variety of measurements of variables that can be successfully made while a platform is underway. These include:

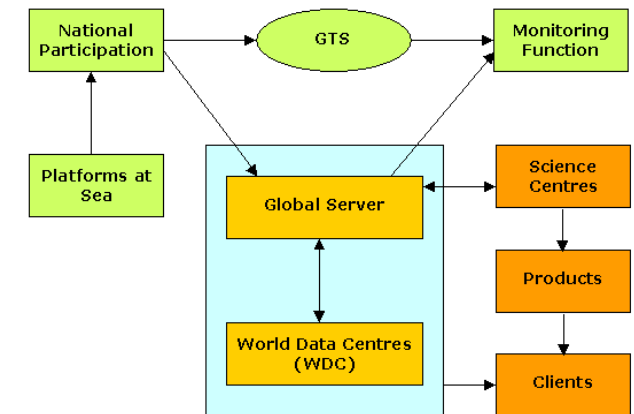
- salinity
- water temperature
- ocean currents
- fluorescence
- pCO₂



The GOSUD data system will be flexible enough to accommodate future data collection systems that operate with similar characteristics.

GOSUD Data Flow

Platforms at sea will make routine underway measurements. The data will be received by national participating agencies and will pass through automated quality control procedures standardized for the project. Data will then be sent to the global data server set up for the project and participants will also be encouraged to send the data to the GTS. A monitoring function will compare data appearing on the GTS to data received at the global server.



The global server will be the central hub of the Project and will act as the archive for all data. It will also interface to the World Data Centres that hold historical underway data. The global server will verify the integrity of the data being offered and will provide data and products to users. The global server will also collaborate with science centres in developing and disseminating scientific products.