

## How to submit data to GOSUD ?

This format is a proposition for submitting thermosalinograph data to the Coriolis data centre which acts as one of the Global Data Centres (GDAC) for the GOSUD project

### **Contact**

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### **Files names**

XXX/YYYY.gz

- XXX : year of observation
- YYYY\_ZZZZZZZ : YYYY = Call sign  
ZZZZ...ZZZZ Ship name
- .gz : suffix gzip

Example : 2006/FNCM\_ATALANTE.gz

### **Files description**

CSV means "Comma Separated Values". CSV files generated or used by Coriolis hold:

- A header (1 line)
- As many records lines as necessary

### **Separators**

- Each record line is made of fields which are separated by commas.
- For real numbers, the decimal separator is "dot".

### **Header line**

- The header line describes parameters and the units that are used  
Units are written in brackets

### **Field QC (quality flags)**

- The QC flag is a concatenation of each parameter quality flag  
if the field has no QC flag (ie Call sign), the QC flag default value is 0

### **File extension**

- The file extension of a CSV file is .csv

## Columns order

- Field 1 : Ship Call sign
- Field 2 : observation date YYYY/MM/DD HH:MI:SS,  
format YYYY/MM/DD: if no hour /minute is known  
format YYYY/MM/DD HH : if no minutes and seconds are known
- Field 3 : latitude
- Field 4 : longitude de l'observation
- Fields 5 à N : observations (ex : temperature, salinity)
- Field N+1 : QC (quality flag) As described in table 4 of the Gosud user's manual <http://www.ifremer.fr/gosud/doc/gosud-dm-user-manual.doc>
- Fields N+2 à N+X : available for additional parameters such as technical parameters

## Lines order

- Lines are sorted by date/ time

## Format CSV to be used for submitting TSG data

```
PLATFORM,DATE (YYYY/MM/DD HH:MI:SS),LATITUDE(degree_north),LONGITUDE(degree_east),TEMP(degree_Celsius),SAL(ppm), QC
FNFP,2004/05/18 03:54:25,35.4987,-40.1775,20.58,36.4365,011111
FNFP,2004/05/18 04:54:25,35.4991,-40.1770,20.57,36.4333,011111
FNFP,2004/05/18 05:54:25,35.4991,-40.1770,20.57,36.4205,011111
FNFP,2004/05/18 06:54:25,35.4991,-40.1770,20.57,36.4105,011111
```

## Data sampling

The recommendation is to apply a median filter and to transmit one value every 3 minutes. However, this depends on the transmission capacity of the vessel if the data are transmitted on a daily basis (near real time). Transmission costs must also be taken in account.

## Data transmission

The data transmission mode will depend on the regularity of the transmission (near real time or delayed mode). Contact [codac@ifremer.fr](mailto:codac@ifremer.fr) before any submission