Coriolis GDAC status

- Proposal of Commitments – February 2006

- Coriolis GDAC status – April 2008

- OceanSites format checker

  - Example of check : ESTOC file

  - How to use the checker ?

  - KEO example

- How to provide files to OceanSites GDACs ?

- Data collect

- OceanSites index file

OceanSites

Proposal of Commitments - February 2006

OceanSites

- PMEL : ok to provide Keo & then TAO/Pirata data in oceansites format

- MBARI could volunteer to be one of the GDACs… OK to provide some of the MBARI data in OceanSites

- CDIAC OK to provide CO^2 data in OceanSITES format

- UCSB ok to provide some of the data in OceanSITES format (BTM)

- LOCO : willing to provide some of the data in OCANSITES format

- CCHDO: could provide ship occupied CTD repeated stations. Will provide tool to convert in Oceansites format

- Jamstec: while their system is set up will provide Triton data in OceanSites format. in 2007

- NOC: need to include ADCP and current meter data… Will continue the way they started with Coriolis

- IPRC:: Can Act like a DAC for some orphan OCEANSites DAC .IPRC could pursue work on DAPPER and LAS to give visibility of the network..

- HAWAII: HOTS: CTD data , WHOTS with WHOI (RT and DM)

- WHOI : has already started and will continue

- BATS : CTD data like for HOTS

- Coriolis volunteers to host one of the GDAC

- NOAA is interested in hosting one GDAC in 2007

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data management Vienne 10/04/2008

Files already collected by OceanSites GDAC :

- ANIMATE : 13 files (5 CIS-1, 2 CIS-2, 1 ESTOC-1, 3 PAP-1 and 2 PAP-2)

- BTM : 1 file

- KEO : 4 files (4 KEO32N145E)

- MOVE : 17 files (5 V404, 1 V404_2005, 1 V404_2006, 5 V405 and 5 V406)

- NTAS : 2 files

- STRATUS : 4 files

- TAO : 37 files (11 moorings, including carbon data)

OceanSites

OceanSites format checker

An OceanSites format checker is available.

Example of check on file OS_ESTOC-1_200711_TSC.nc:

control.csh oceansites/OS_ESTOC-1_200711_TSC.nc

```xml
<?xml version="1.0"?>
<coriolis_function_report>
        <function>CO-03-08-03</function>
        <comment>Control file data format</comment>
        <date>Wed Apr 09 10:17:00 MEST 2008</date>
        <netcdf_file>oceansites/OS_ESTOC-1_200711_TSC.nc</netcdf_file>
        <rules_file>oceansites_1.0.xml</rules_file>
        <DATA_TYPE>OceanSITES data              </DATA_TYPE>
        <FORMAT_VERSION>1.0 </FORMAT_VERSION>
        <error>The mandatory global attribute "comment" is missing</error>
        <error>The mandatory attribute of variable "DATE_UPDATE:long_name" is missing</error>
        <error>The mandatory attribute of variable "DATE_SOURCE:long_name" is missing</error>
        <error>The value of the attribute of variable "DATA_RESTRICTIONS:comment" is not correct : "Restriction on use for these
data" expected</error>
        <error>The value of the attribute of variable "CITATION:comment" is not correct : "Restriction on use for these data"
expected</error>
        <error>The value of the attribute of variable "DEPH:long_name" is not correct : "depth of each measurement"
expected</error>
        <error>The mandatory attribute of variable "DEPH:epic_code" is missing</error>
        <error>The value of the attribute of variable "PRES:long_name" is not correct : "sea water pressure" expected</error>
        <error>The value of the attribute of variable "PSAL:standard_name" is not correct : "sea_water_salinity" expected</error>
        <error>The mandatory attribute of variable "PSAL:QC_indicator" is missing</error>
        <error>The value of the attribute of variable "TEMP:long_name" is not correct : "sea water temperature" expected</error>
        <error>The mandatory attribute of variable "TEMP:QC_indicator" is missing</error>
        <error>The value of the attribute of variable "TEMP_QC:long_name" is not correct : "quality flag" expected</error>
        <error>The mandatory attribute of variable "TEMP_QC:conventions" is missing</error>
        <compliant>no</compliant>
</coriolis_function_report>
```

OceanSites

OceanSites format checker

Download OceanSites format checker at :
   http://www.ifremer.fr/co/etc/oceansites/checker/checker.tar.gz

checker.tar.gz contains directories, 1 control.bat and 1 control.csh (it works on linux and windows).

Check configuration variables in controle.csh or control.bat :
- You have to change application path.
- You may have to change the Java environment variables.

Launch the checker : controle.csh OceanSites_file

That gives you an xml report.

This format checker is based on OceanSITES user manual v1.0 (from http://www.oceansites.org/docs/oceansites-user-manual.pdf)

The checker works only if DATA_TYPE and FORMAT_VERSION are declared as variables.
In format v1.0 :
         - DATA_TYPE = "OceanSITES data" ;
         - FORMAT_VERSION = "1.0 " ;

Only ANIMATE moorings (CIS, PAP and ESTOC) pass the checker.
Thanks to ANIMATE files, we found errors that highlight some inconsistencies in User Manual and we updated it for the next version (v1.1).

After adding DATA_TYPE and FORMAT_ VERSION variables, STRATUS, MOVE, KEO and TAO files are nearly in OceanSites format v1.0.

OceanSites

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OceanSites

Example of check on file OS_KEO32N145E_200406_TSVM_dy.nc

After adding mandatory variables for identify the rules file :

- DATA_TYPE = "OceanSITES data "
- FORMAT_VERSION = "1.0"

control.csh oceansites/OS_KEO32N145E_200406_TSVM_dy.nc

```
<?xml version="1.0"?>
<coriolis_function_report>
      <function>CO-03-08-03</function>
      <comment>Control file data format</comment>
      <date>Fri Apr 04 13:47:29 MEST 2008</date>
      <netcdf_file>oceansites/OS_KEO32N145E_200406_TSVM_dy.nc</netcdf_file>
      <rules_file>oceansites_1.0.xml</rules_file>
      <title>OceanSITES KEO in-situ data</title>
      <error>The mandatory dimension "TIME" is missing.</error>
      <error>The mandatory dimension "LEVEL" is missing.</error>
      <error>The mandatory dimension "STRING256" is missing.</error>
      <error>The mandatory dimension "STRING64" is missing.</error>
      <error>The mandatory dimension "STRING32" is missing.</error>
      <error>The mandatory dimension "STRING14" is missing.</error>
      <error>The mandatory dimension "STRING8" is missing.</error>
      <error>The mandatory dimension "STRING4" is missing.</error>
      <error>The mandatory global attribute "creation_date" is missing</error>
      <error>The mandatory global attribute "comment" is missing</error>
      <error>The mandatory variable "name QC_MANUAL" is missing</error>
      <error>The mandatory variable "name DATE_CREATION" is missing</error>
      <error>The mandatory variable "name DATE_UPDATE" is missing</error>
      <error>The mandatory variable "name DATE_SOURCE" is missing</error>
      <error>The mandatory variable "name DATA_RESTRICTIONS" is missing</error>
      <error>The mandatory variable "name CITATION" is missing</error>
      <error>The mandatory variable "name PLATFORM_CODE" is missing</error>
      <error>The mandatory variable "name SITE_CODE" is missing</error>
      <error>The mandatory variable "name WMO_PLATFORM_CODE" is missing</error>
      <error>The mandatory variable "name PROJECT_NAME" is missing</error>
      <error>The mandatory variable "name PI_NAME" is missing</error>
      <error>The mandatory variable "name DATA_CENTRE" is missing</error>
      <error>The mandatory variable "name TIME" is missing</error>
      <error>The mandatory variable "name DEPH, dimension_count 1" is missing</error>
      <compliant>no</compliant>
</coriolis_function_report>
```

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How to provide files to OceanSites GDACs ?

There are two methods to provide files to OceanSites GDACs:

- First method, GDACs download files from your FTP

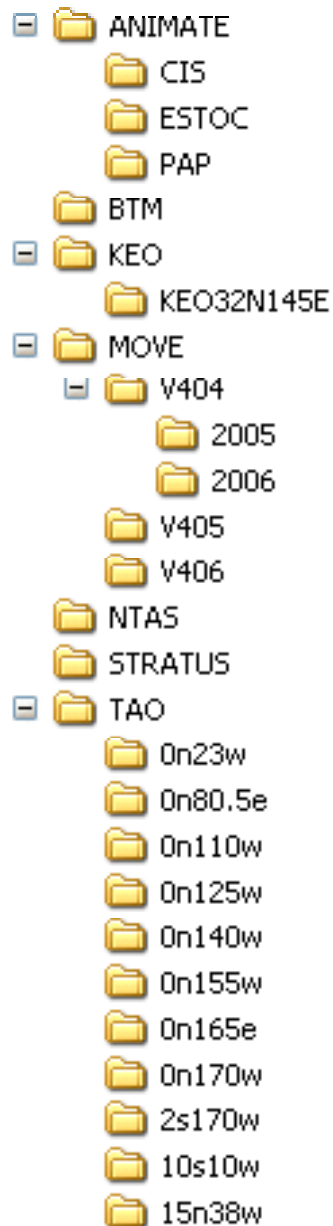 All you have to do is to give GDACs some information bellow:

  - ftp address

  - Login

  - Password

  - Directory

- Second method, GDACs give you an FTP access

Then GDACs will regularly collect your files.

OceanSites

OceanSites

```
▣ 📁 ANIMATE
    📁 CIS
    📁 ESTOC
    📁 PAP
  📁 BTM
▣ 📁 KEO
    📁 KEO32N145E
▣ 📁 MOVE
  ⊟ 📁 V404
      📁 2005
      📁 2006
    📁 V405
    📁 V406
  📁 NTAS
  📁 STRATUS
▣ 📁 TAO
    📁 0n23w
    📁 0n80.5e
    📁 0n110w
    📁 0n125w
    📁 0n140w
    📁 0n155w
    📁 0n165e
    📁 0n170w
    📁 2s170w
    📁 10s10w
    📁 15n38w
```

Currently, files provided to OceanSites GDACs are collected twice a day.

Files will be automatically tested by the OceanSites format checker.

- format is checked

- some metadata will be checked (for example : site code existence)

A file no compliant will be moved in a "rejected" directory.

All files accepted are distributed on OceanSites FTP.

An index file "oceansites_index.txt" is updated in the same time.

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oceansites_index.txt

OceanSites FTP GLOBAL INDEX
ftp://ftp.ifremer.fr/ifremer/oceansites
Contact : http://www.oceansites.org/OceanSITES/index.html
Creation date DD/MM/YYYY HH:MI:SS 30/10/2007 18:37:46
#
#FILE,DATE_UPDATE,SIZE (bytes)
TAO/0n170w/OS_0n170w_SW_LW_2m.nc,Fri Apr 4 07:34:26 2008,48352652

```
TAO/0n165e/OS_0n165e_SW_LW_2m.nc,Fri Apr  4 07:16:19 2008,90943028
TAO/0n140w/OS_0n140w_TSVM_dy.nc,Sun Apr  6 20:48:52 2008,5843736
ANIMATE/CIS/OS_CIS-2_200308_TSC.nc,Fri Jan  4 20:47:27 2008,978108
TAO/0n140w/OS_0n140w_S_hr.nc,Fri Apr  4 06:55:48 2008,20492988
TAO/0n165e/OS_0n165e_S_hr.nc,Fri Apr  4 07:19:14 2008,36832444
TAO/0n170w/OS_0n170w_TVM_10m.nc,Fri Apr  4 07:42:23 2008,95235500
ANIMATE/CIS/OS_CIS_200509_TSC.nc,Thu Nov 29 20:47:55 2007,7718064
TAO/0n170w/OS_0n170w_S_hr.nc,Fri Apr  4 07:34:39 2008,1580668
ANIMATE/CIS/OS_CIS-1_200409_TSC.nc,Fri Jan  4 20:47:17 2008,8244220
TAO/0n80.5e/OS_0n80.5e_TSVM_dy.nc,Sun Apr  6 20:47:17 2008,1900264
ANIMATE/PAP/OS_PAP-1_200307_TSC.nc,Fri Dec 21 20:47:11 2007,1955160
ANIMATE/ESTOC/OS_ESTOC-1_200711_TSC.nc,Thu Mar 27 20:47:03 2008,49936
TAO/10s10w/OS_10s10w_TVM_10m.nc,Fri Apr  4 06:16:10 2008,100938772
TAO/0n165e/OS_0n165e_TVM_10m.nc,Fri Apr  4 07:30:37 2008,145510272
ANIMATE/CIS/OS_CIS_200707_TSC.nc,Fri Nov 30 06:47:12 2007,195168
TAO/10s10w/OS_10s10w_S_hr.nc,Fri Apr  4 06:08:12 2008,5862760
TAO/0n140w/OS_0n140w_SW_LW_2m.nc,Fri Apr  4 06:54:09 2008,88901108
TAO/0n23w/OS_0n23w_TVM_10m.nc,Fri Apr  4 06:00:24 2008,84710756
ANIMATE/CIS/OS_CIS-1_200707_TSC.nc,Fri Jan  4 20:47:23 2008,195172
ANIMATE/PAP/OS_PAP-1_200406_TSC.nc,Tue Mar 11 20:47:05 2008,1029872
ANIMATE/PAP/OS_PAP-2_200406_TSC.nc,Tue Mar 11 20:47:10 2008,8483588
TAO/0n165e/OS_0n165e_SW_2m.nc,Tue Nov  6 07:08:45 2007,53668408
TAO/0n23w/OS_0n23w_S_hr.nc,Fri Apr  4 05:53:45 2008,6123204
ANIMATE/CIS/OS_CIS-1_200308_TSC.nc,Fri Jan  4 20:47:09 2008,357692
ANIMATE/CIS/OS_CIS_200409_TSC.nc,Thu Nov 29 20:47:41 2007,8244216
ANIMATE/CIS/OS_CIS_200405_TSC.nc,Thu Nov 29 20:47:13 2007,2842512
TAO/0n170w/OS_0n170w_TSVM_dy.nc,Sun Apr  6 20:49:35 2008,2976972
ANIMATE/PAP/OS_PAP-2_200311_TSC.nc,Wed Jan  2 20:47:11 2008,4775764
TAO/0n165e/OS_0n165e_TSVM_dy.nc,Sun Apr  6 20:49:19 2008,5172204
TAO/15n38w/OS_15n38w_TVM_10m.nc,Fri Apr  4 06:28:01 2008,89274164
ANIMATE/CIS/OS_CIS_200208_TSC.nc,Thu Nov 29 20:47:11 2007,3617668
TAO/15n38w/OS_15n38w_S_hr.nc,Fri Apr  4 06:20:57 2008,5245036
TAO/15n38w/OS_15n38w_TSVM_dy.nc,Sun Apr  6 20:47:42 2008,1233276
ANIMATE/CIS/OS_CIS-1_200509_TSC.nc,Fri Jan  4 20:47:22 2008,7718068
TAO/0n23w/OS_0n23w_SW_LW_2m.nc,Fri Apr  4 05:53:14 2008,77784776
TAO/0n110w/OS_0n110w_S_hr.nc,Fri Apr  4 06:35:01 2008,8441792
ANIMATE/ESTOC/OS_ESTOC-1_200712_TSC.nc,Tue Mar 11 06:47:10 2008,34480
TAO/0n23w/OS_0n23w_TSVM_dy.nc,Sun Apr  6 20:47:25 2008,1101088
ANIMATE/CIS/OS_CIS-2_200208_TSC.nc,Fri Jan  4 20:47:26 2008,3617672
KEO/KEO32N145E/OS_KEO32N145E_200406_TSVM_dy.nc,Sun Apr  6 20:49:44 2008,1070508
ANIMATE/CIS/OS_CIS-1_200405_TSC.nc,Fri Jan  4 20:47:11 2008,2842516
TAO/10s10w/OS_10s10w_TSVM_dy.nc,Sun Apr  6 20:47:33 2008,1278868
TAO/0n110w/OS_0n110w_TSVM_dy.nc,Sun Apr  6 20:48:21 2008,7315972
TAO/0n110w/OS_0n110w_SW_LW_2m.nc,Fri Apr  4 06:34:18 2008,80053748
TAO/15n38w/OS_15n38w_SW_2m.nc,Fri Apr  4 06:20:30 2008,55790128
ANIMATE/PAP/OS_PAP-1_200311_TSC.nc,Wed Jan  2 20:47:08 2008,582388
TAO/10s10w/OS_10s10w_SW_LW_2m.nc,Fri Apr  4 06:07:40 2008,92688128
TAO/0n140w/OS_0n140w_TVM_10m.nc,Fri Apr  4 07:09:05 2008,165957032
TAO/0n110w/OS_0n110w_TVM_10m.nc,Fri Apr  4 06:47:13 2008,149442632
```

Next Corrections :

• Change format of the collect date

• Add date update of the file

• Sort alphabetically observatory and moorings