

Processing application environment, Data Processing ADCP Data Vessel

SOCIB-Data Center Facility

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1. INTRODUCTION:

The aim of this document is to describe a standardized procedure to conduct the data processing from the SOCIB R/V ADCP profiles using the .txt files exported from WinADCP software.

This procedure is applicable to the following SOCIB instruments:

• SCB-RDi001. sn 1878

2. RELATED DOCUMENTS

- PUM-DCF instrumentation-database-processing-configuration
- SOP RVF VMADCP winadcp-software-execution
- <u>SOP_RVF_VMADCP_data-processing-process-configuration</u>

3. REQUIRED FEATURES

- Desktop or laptop.
- Internet connection.
- Vessel home access.
- Instrumentation database access.
- pgAdmin software.

4. PROCEDURE DEVELOPMENT

4.1. INSTRUMENTATION DATABASE SETTINGS

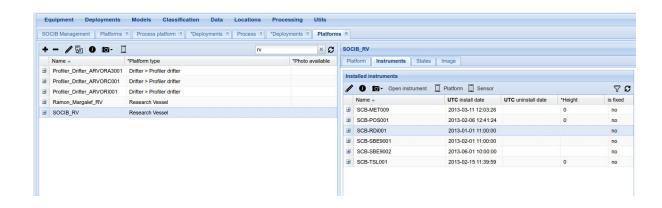


• In Process Platform check the processes to match the instrument belonging to the deployment that needs to be processed.

Note: See <u>processing_configuration</u> document to create a new process and <u>RV_ADCP_SOP-DatProc-06-1</u> procedure that refers to the current RV_ADCP process configuration.



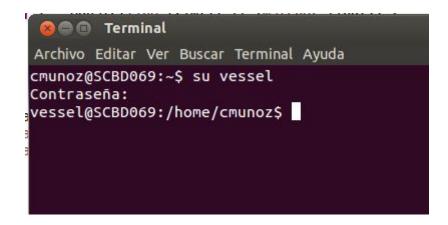
- In Platforms filter the platform needed.
- Check that Platform > Instruments > Installed Instruments match with the instrument enabled in the deployments. Otherwise switch them for the available instruments





4.2. PREPARE DATA

- Open a new terminal and switch to *mooring* user using the following credentials:
 - switch user as "vessel" user.
 - Insert "vessel password"
 Note: Ask IT manager for the password.



 Copy the txt files from the cruise you need to process into the rawInput directory through the following command:

cp -iR SourceDirectoryPath/CruiseDirectory/*.txt DestinationDirectoryPath/rawInput

Source Directory path: /home/vessel/SHIP_DATA/ADCP/DATA

Destination Directory path: /home/vessel/RTDATA/socib rv/SCB-RDi001





Open pgAdmin and configure a new connection to scb-datserv:

Name: scb-datserv

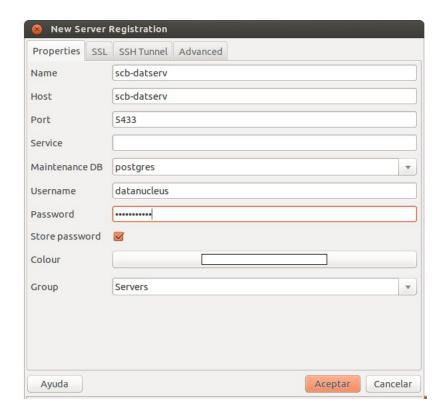
Host Name: scb-datserv

Port: 5433

Username: datanucleus

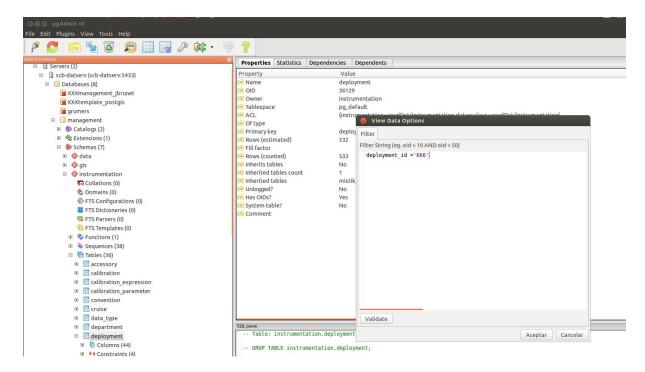
Password: "datserv password"

Note: Ask IT manager for the password.



- o Connect to scb-datserv.
- Select Management database.
- o Select Instrumentation Schemas.
- Select deployment table.
- Filter the deployment_id = 'deployment_id'





Set deployment_finished to FALSE.

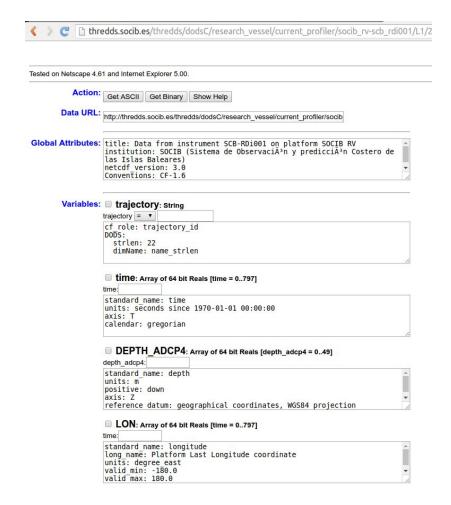




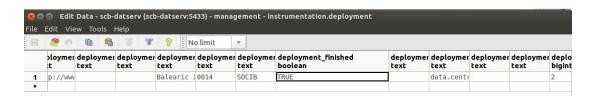
4.3. CHECK OUTPUT NETCDF RESULTS

Check thredds server to find the NetCDF file created.

Use this example <u>link to thredds</u> to check the appearance.



Get back to pgAdmin and Set deployment_finished to TRUE.





4.4. STORE RAW FILES

 All the txt files will be automatically stored in rawArchiveDaily directory specified in the following route:

/home/vessel/RTDATA/socib_rv/SCB-RDi001

 In case it doesn't exist, create a new cruise folder within the rawArchive directory using the following command in the terminal:

mkdir cruiseName_deploymentCode_socib-rv_scb-rdi001_L1_yyyy-mm-dd

```
■ Terminal

Archivo Editar Ver Buscar Terminal Ayuda

Mooring@SCBD069:/home/vessel/RTDATA/socib_rv/SCB-RDi001/rawArchive$

mooring@SCBD069:/home/vessel/RTDATA/socib_rv/SCB-RDi001/rawArchive$ mkdir canales_dep0002_socib-rv_scb-rdi001_L1_2016-07-12

mooring@SCBD069:/home/vessel/RTDATA/socib_rv/SCB-RDi001/rawArchive$ ls

canales_dep0002_socib-rv_scb-rdi001_L1_2016-07-12

mooring@SCBD069:/home/vessel/RTDATA/socib_rv/SCB-RDi001/rawArchive$

mooring@SCBD069:/home/vessel/RTDATA/socib_rv/SCB-RDi001/rawArchive$
```

 Move all the .txt files from rawArchiveDaily to the new folder created in rawArchive by using the following command:

mv rawArchiveDailyPath/*.txt rawArchivePath/cruiseDirectory

```
Archivo Editar Ver Buscar Terminal Ayuda
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$ mkdir canales_dep0002_socib-rv_scb-rd1001_L1_2016-07-12
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$ wr../rawArchiveDaily/*.txt canales_dep0002_socib-rv_scb-rd1001_L1_2016-07-12/
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$ wr../rawArchiveDaily/*.txt canales_dep0002_socib-rv_scb-rd1001_L1_2016-07-12/
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$ canales_dep0002_socib-rv_scb-rd1001_L1_2016-07-12/
mooring@SCBD669:/home/vessel/RTDATA/socib_rv/SCB-RD1001/rawArchive$ canales_dep0002_socib-rv_scb-rd1001_L1_2016-07-12$ ts
SOCIB_CANALES_MAY16001_000000.txt
SOCIB_CANALES_MAY16001_000000.txt
SOCIB_CANALES_MAY16001_000000.txt
SOCIB_CANALES_MAY16002_000000.txt
SOCIB_CANALES_MAY16003_000000.txt
SOCIB_CANALES_MAY16003
```