

# Data Processing Raw ADCP Data Vessel

SOCIB-Data Center Facility

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Description:	Raw RV SOCIB ADCP data pre-processing
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# **DOCUMENT VERIFICATION LIST**

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#### **CHANGE RECORD**

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1.0.0	2016-09-28	First version document	C. Munoz	C. Troupin
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#### 1. INTRODUCTION:

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

This procedure is applicable to the following SOCIB instruments:

• SCB-RDi001. sn 1878

#### 2. RELATED DOCUMENTS

- Processing configuration
- SOP RVF VMADCP data-processing-process-configuration

#### 3. REQUIRED FEATURES

- Desktop or laptop.
- Internet connection.
- Vessel home access.
- Windows Operating System.
- Teledyne WinADCP software.

## 4. PROCEDURE DEVELOPMENT

#### 4.1. SOFTWARE INSTALLATION

• Open RDI Teledyne website and navigate through support > software/firmware section.

You can use this link: <a href="http://www.rdinstruments.com/support/software-firmware">http://www.rdinstruments.com/support/software-firmware</a>





- Log in using your RDI account that you must have previously created.
- Download the last version from WinADCP for windows.

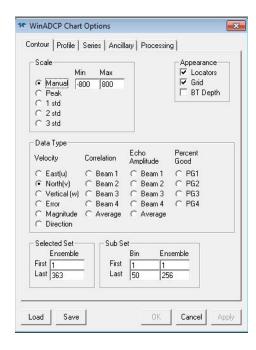


• Install software following the instructions provided by the wizard.

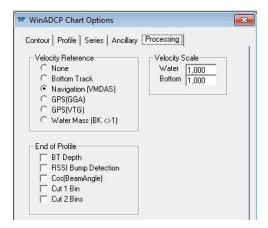


### 4.2. DATA CONVERSION

- Open WinADCP software.
- Set WinADCP Chart Options as follows:
  - menu Options > Chart Options > Contour:

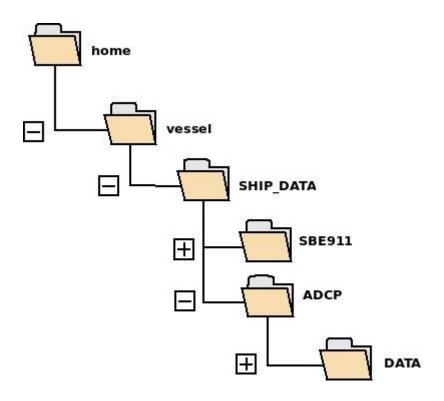


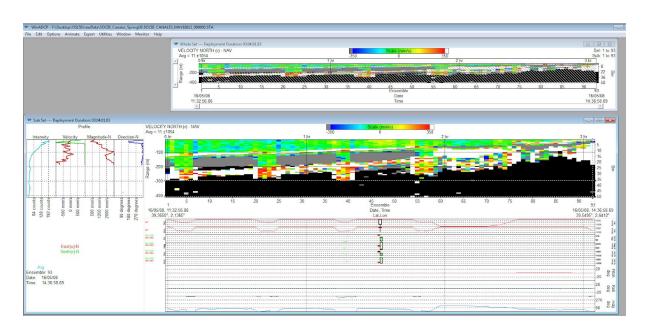
menu Options > Chart Options > Processing:



• Open the first STA file from your cruise directory within the DATA folder through the menu file > open.

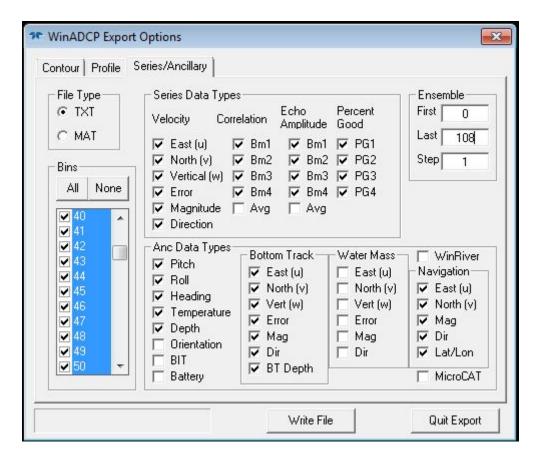






 Export the file to .txt through the menu export. Set the Export options as in the following figure:

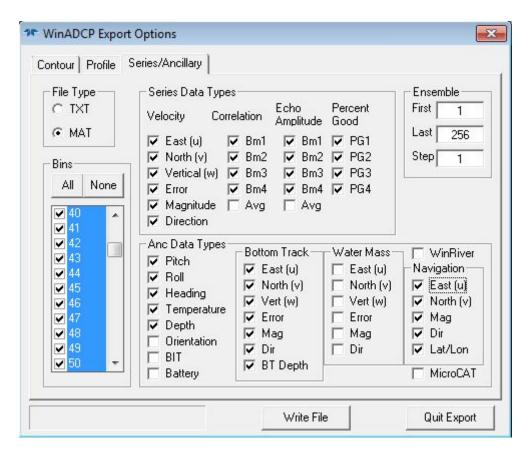




NOTE: Remember to to select All bins and set the Last Ensemble according to the number of ensembles provided by the dataset.

- Click Write File and store the output file within a new folder created in the rawArchive directory specified in Data Storage section.
- Export the file to .mat by changing the File Type from TXT to MAT as in the following figure:





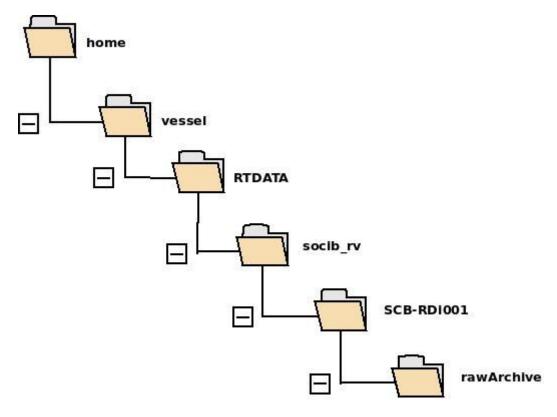
NOTE: Remember to select All bins and set the Last Ensemble according to the number of ensembles provided by the dataset.

Repeat the same process for all the datasets contained in the cruise directory.

#### 4.3. DATA STORAGE

 All the txt and mat files will be stored in a new folder (named converted) created within the rawArchive directory specified in the following route:





- The nomenclature must follow the following example:
   SOCIB\_ENL\_CANALES\_JUL2016\_SCB-RDi001
- Inside the directory data will be stored in raw and converted sub-directories:

