

Categorization acoustic wideband data with LSSS-2

Institute of Marine Research and MAREC arrange a training course in processing and scrutinizing acoustic wideband data (from EK80). The training course is intended for scientists and technicians.

LSSS drawing-tools used during categorization and automatic drawing of bottom will be demonstrated, as well as export of data for abundance estimation, use of color-scales and use of survey-local database. LSSS is being continually developed, so new functionality is added continuously. Special focus this time is how to handle and analyze the enormous amounts of data from the EK80 wideband echosounder (250 times more data than EK60).

The LSSS pre-processor toolbox KORONA makes categorization more objective, and speeds up categorization. With the introduction of wideband data, the use of KORONA is even more important to get the full benefit out of the data. Wideband tools are demonstrated and used during exercises. Automatic categorization (“species identification”) of multifrequency and wideband data is studied.

Content

Installation: Sentinel, LSSS, feature library

Basic use of LSSS:

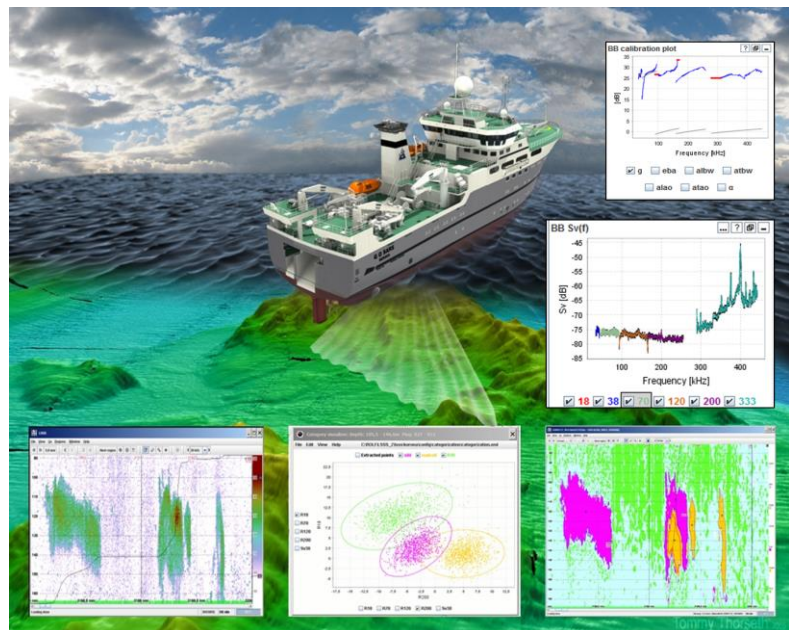
- Basic design
- Setup and data organizing
- Data interpretation tools
- Analysis of survey data
- Work and Snap files
- Database
- Data export and data copying
- Wideband functionality

Theory:

- Introduction to wideband theory

Using preprocessor KORONA:

- Preprocessor design
- Data improvement through preprocessing
- Wideband functionality
- The acoustic feature library
- Automatic categorization (“species identification”)
- Training the library
- How to use (or not to use) the results of the preprocessor



Course material: Course material available a week prior to the course at <ftp://lss@ftp.imr.no>.

Time (2017): Tuesday 21 – Friday 24 February 9:00 – 15:45 (Note: Starts 8:30 first day)

Location: Institute of Marine Research, Nordnesgaten 33, Bergen, Norway, room “Store dypet”.

Registration: Registration continues until the course is full.

- IMR: Please register at Havforskningsakademiet
- International: Please register to: rolf@imr.no

Laptop: We ask you to kindly bring your own laptop computer with at least 8GB RAM (but preferably more) and Java 8. It is an advantage with 16 GB RAM and 64-bits operating system.

Lecturers: Rolf J. Korneliussen (Head of Research), Institute of Marine Research;
Inge K. Eliassen (Principal scientist), Christian Michelsen Research / MAREC;