



Mini Fish Finder Simulator FFS-001

Appointment

Software mini-simulator of fish finder equipment is intended for delivery in educational institutions Rosrybolovstva using the available technical means (sonar, echo sounder and trawl probe). Such a classroom makes it possible to increase the effectiveness of educational disciplines "Fish search and control instruments", "Hydroacoustic fishing instruments". Such a mini-simulator allows to reduce the load on complex fishing and navigational and fishing simulators, as well as to "approximate" the technical means of training to the profile departments of educational institutions.

Such mini-simulators also provide pre-training training before the release of cadets and students for full-scale fishing and navigational and fishing simulators.

Appointment

Mini simulator of fish finder equipment is intended for the training of boatmasters of fishing vessels and masters of extraction in the disciplines "Fish search and control instruments" and "Hydroacoustic fish retrieval devices".

The mini-simulator includes the following software simulators and mathematical models:

- mathematical models of fishing tools;
- mathematical model of the behavior of fish accumulations;
- Simulator of the sonar of the simultaneous circular view SP70;
- Simulator of multi-frequency echo sounder ES60;
- simulator of trawl probe CN-14A.

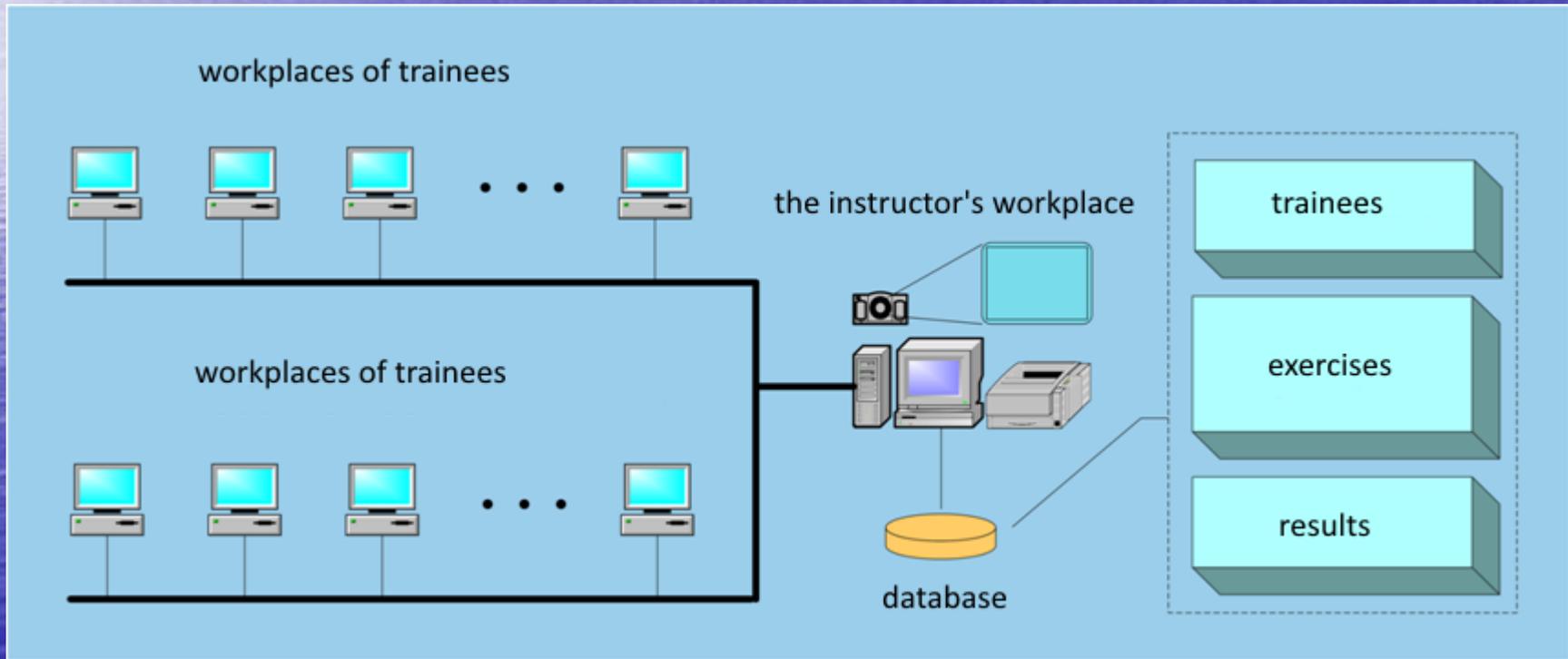
The hardware part of the mini-simulator includes the following non-standard hardware:

- personal computer of the instructor with a screen console for managing the fishing vessel and pelagic fishing trawl;
- a personal computer with the SP70 sonar simulator software;
- a personal computer with the software of the simulator of the echo sounder ES60;
- a personal computer with the CN-14A trawl simulator software.

Appointment

Mini FFS includes simulator workstation instructor (lecturer) and one or more jobs trainees united by a local data network for Fast Ethernet technology, 100 Mbit / c or Gigabit Ethernet, 1 gigabit / sec.

- ✓ the instructor's workplace (IW);
- ✓ up to 30 workplaces of trainees (TW);



Appointment

The instructor's workplace is implemented as a set of the following functional modules:

- editor of scenarios of the fishing situation and a set of ready exercises;
- module of mathematical models;
- the program console of the ship and pelagic trawl management;
- the module for entering information about the trainees;
- a module for recording exercises performed by trainees with execution protocols;
- module simulator fish finder type Simrad ES-60;
- module simulator sonar of the circular view of the type Simrad SP-70;
- the module of the simulator of a trawl probe of type Furuno CN-14.

Workplace trainee is implemented in the form of a set of the following functional modules:

- student registration module;
- module simulator fish finder type Simrad ES-60;
- module simulator sonar of the circular view of the type Simrad SP-70;
- the module of the simulator of a trawl probe of type Furuno CN-14.
- a module for training the trainees, containing a set of control parameters and inputting the results of measurements of the values of control parameters by the trainee.

Functional capabilities of the instructor's workplace

- Demonstration of opportunities and methods of work of Fish Finder simulators.
- Creating exercises and saving them in the database.
- View and edit the contents of exercises from the database.
- Editing the database of trainees.
- Registration of trainees and the assignment of exercises.
- Submission of commands to start execution / completion of the execution and control the execution of the trainees exercises.
- Archiving of protocols performed in the exam exercise.
- View (and print) the protocols of exercises performed in the exam mode from the archive.
- Logging of the time spent by the trainees in the mini-simulator, the number and types (according to the fish finder type) of the exercises they performed.

Functional capabilities of the student's workplace

- The choice of their personal data from the proposed list for registration at the workplace of the instructor.
- Performing an instructor-appointed exercise in study mode.
- Performing an instructor-appointed exercise in the exam mode.
- In the exam mode, the parameters of the exercises to be measured randomly vary in order to exclude the possibility for the trainees to input previously known correct or pending values from other learners.

The main window of the fish finder mini-simulator instructor's assistant at various stages of training

ООО КБМЭ Вектор - Инструктор мини-тренажера РПА

Выполнение упражнений

Выбор обучаемых

Ф.И.О	Упражнение	Режим	Имитатор	Состояние	РМО
Журнал выполнения экзаменационных упражнений					
Ф.И.О	Имитатор	Погрешность измерений	Отчет		

Упражнения

Режим демонстрации...

ООО КБМЭ Вектор - Инструктор мини-тренажера РПА

Выполнение упражнений

Ф.И.О	Упражнение	Режим	Имитатор	Состояние	РМО
Зуев Виссарион Романович	Траловый зонд CN14	Изучение	Furuno CN14		
Титов Савва Филиппович	Гидролокатор SP70	Экзамен	Не задан		

Выбор обучаемых

Упражнения

Режим демонстрации...

Журнал выполнения экзаменационных упражнений

Ф.И.О	Имитатор	Погрешность измерений	Отчет		
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Выполнение упражнений

Выбор обучаемых

Упражнения

Наименование	Примечание		
Гидролокатор SP70			
Эхолот ES60			
Траловый зонд CN14			

Режим демонстрации...

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Выполнение упражнений

Выбор обучаемых

Упражнения

Режим демонстрации...

Факультет

Группа

Ф.И.О	№ зачетной книжки	Журнал	Примечание		
Устинов Савва Робертович					
Зуев Виссарион Романович					
Новиков Даниил Викторович					
Титов Савва Филиппович					

Мини-тренажер РПА. Журнал выполнения упражнений

Зуев Виссарион Романович

Дата	Длительность	Имитатор	Режим	Погрешность измерений	Отчет		
13:06:2013 15:46	01:54	Simrad ES60	Изучение				
13:06:2013 15:50	00:05	Simrad ES60	Изучение				
13:06:2013 15:50	00:15	Simrad ES60	Изучение				
20:06:2013 10:22	00:27	Simrad ES60	Экзамен	100%			
20:06:2013 10:23	00:17	Simrad SP70	Экзамен	1000%			
20:06:2013 10:24	00:11	Furuno CN14	Экзамен	200%			
20:06:2013 14:57	11:34	Furuno CN14	Изучение				

Kinds of the window for the workplace of the trainee in preparation for the exercise

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Регистрация

Выберитесь свои данные для регистрации:

Рекомендации

Измерения

Ф.И.О
<input type="checkbox"/> Устинов Савва Робертович

Войти

ООО КБМЭ Вектор - Рабочее место обучаемого мини-тренажера РПА

Регистрация

Ф.И.О. Устинов Савва Робертович

Рекомендации

Измерения

Имитатор Simrad SP70

Режим Изучение

Время 00:06

Выйти

The window of the report on the performance of the exercise by the trainees

МИНИ-ТРЕНАЖЕР РПА

ОТЧЕТ О ВЫПОЛНЕНИИ УПРАЖНЕНИЯ

Дата выполнения: 20:06:2013 15:14

Ф.И.О. обучаемого: Титов Савва Филиппович

Имитатор: Simrad ES60

Режим упражнения: Экзамен

Погрешность измерений: 6.9%

Погрешности измерений

Параметры рыбных слоев

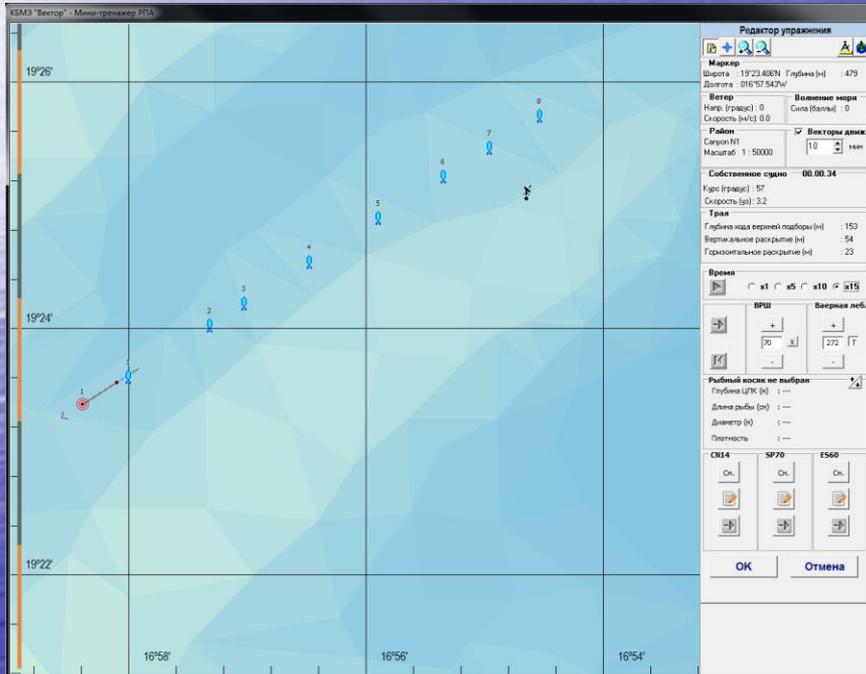
Толщина пелагического слоя (м)	19%	20
Толщина придонного слоя (м)	16.7%	9

Параметры рыбных косяков

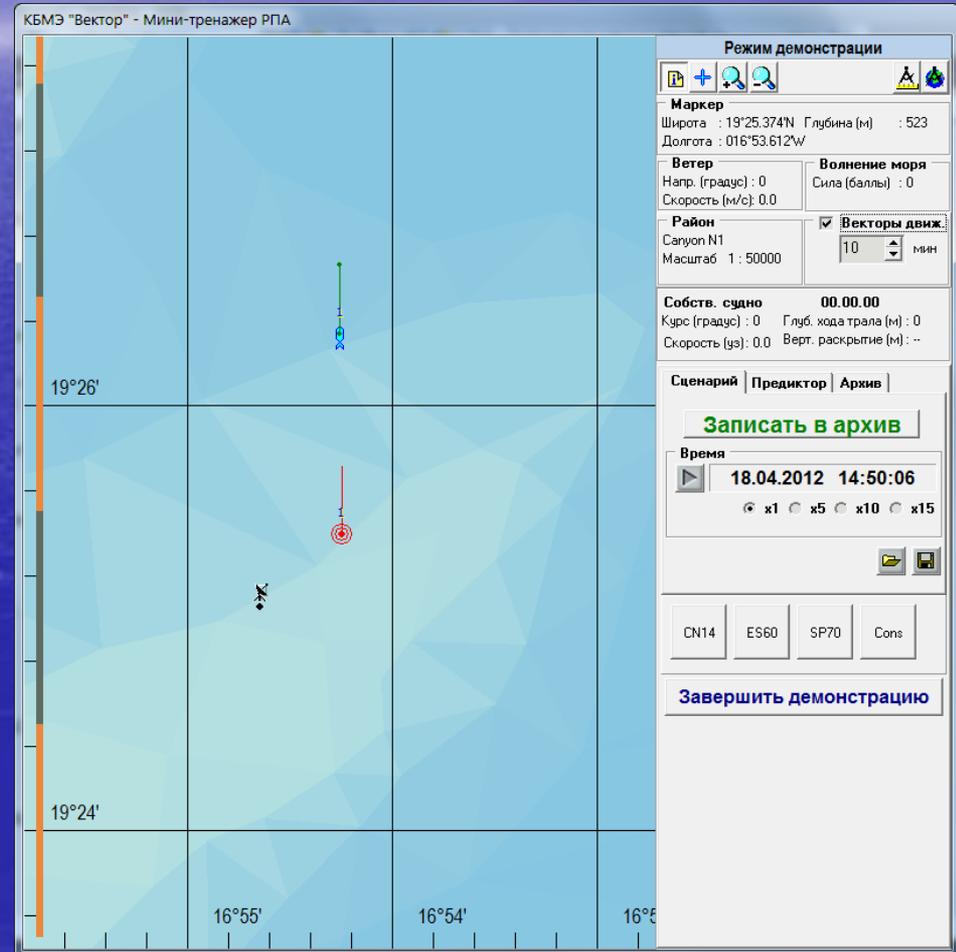
Номер косяка	Вертикальная протяженность (м)		Глубина моря в месте нахождения косяка (м)	
1	0%	0	0%	0
2	39.3%	22	0%	0
3	22.6%	24	0%	0
4	0%	0	0%	0
5	0%	0	0%	0
6	18%	18	0%	0
7	8.8%	6	0%	0
8	0%	0	0%	0

Печать

Script editor window in edit mode

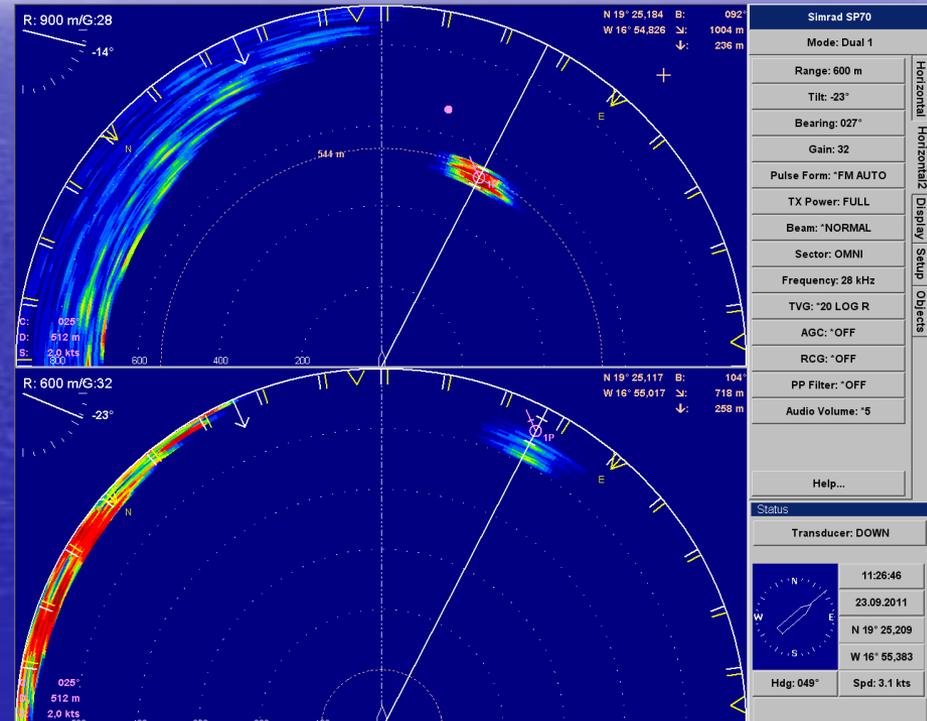
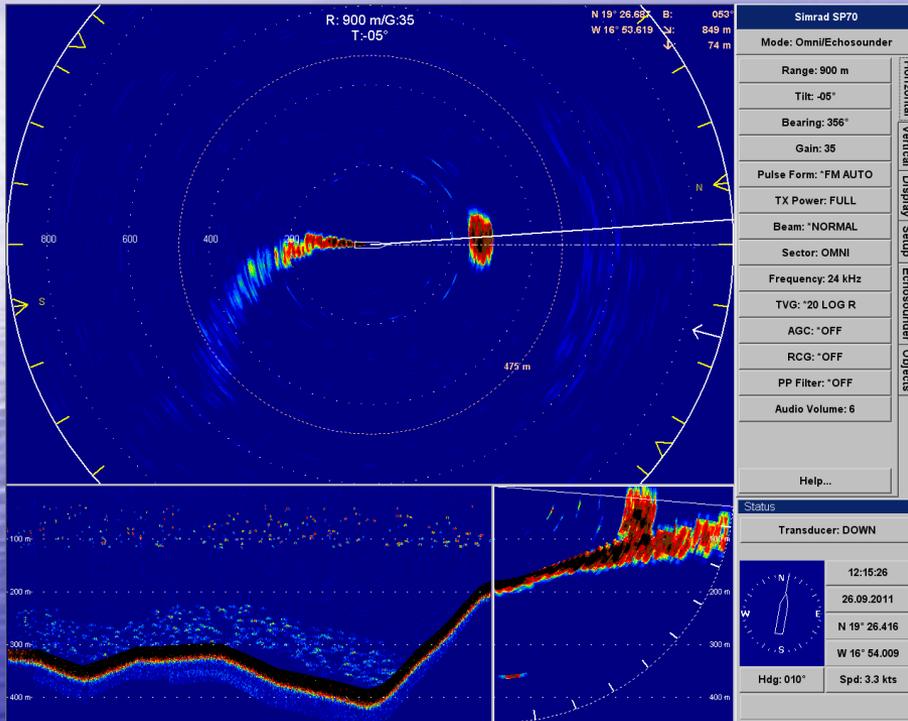


Script editor window in demonstration mode



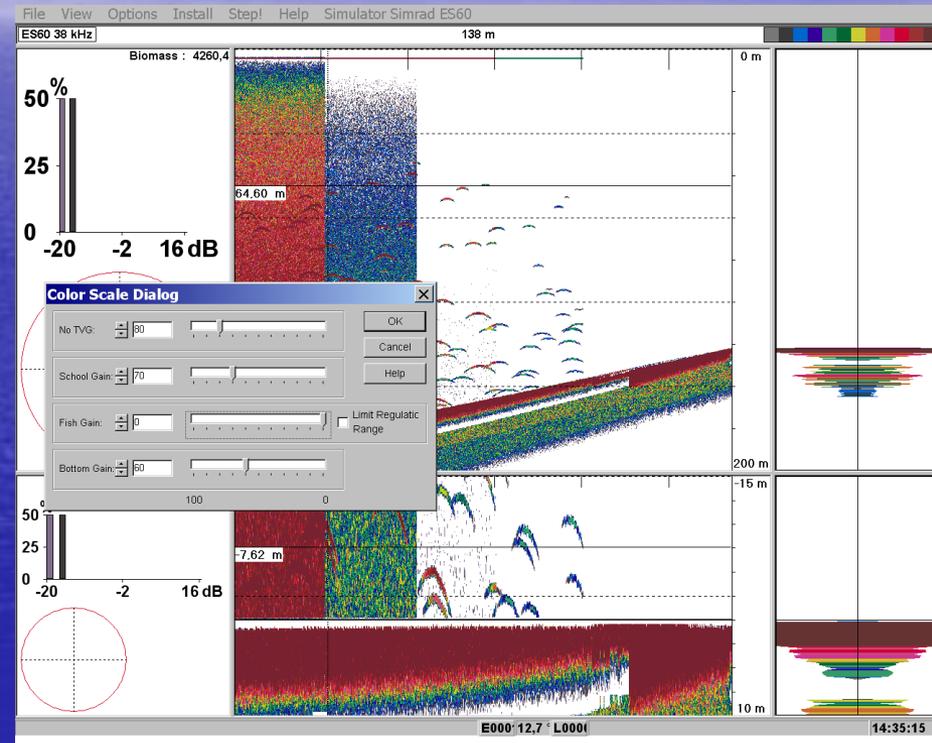
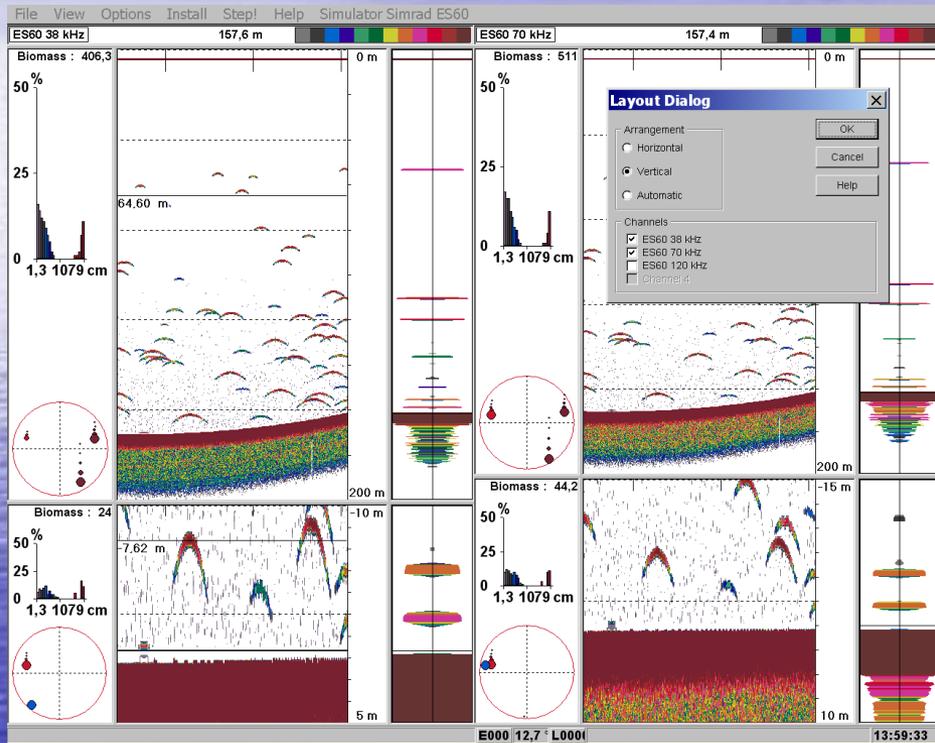
Screen view of the SP70 sonar simulator in Omni / Echosounder mode

View of the SP70 sonar simulator in Dual mode 1



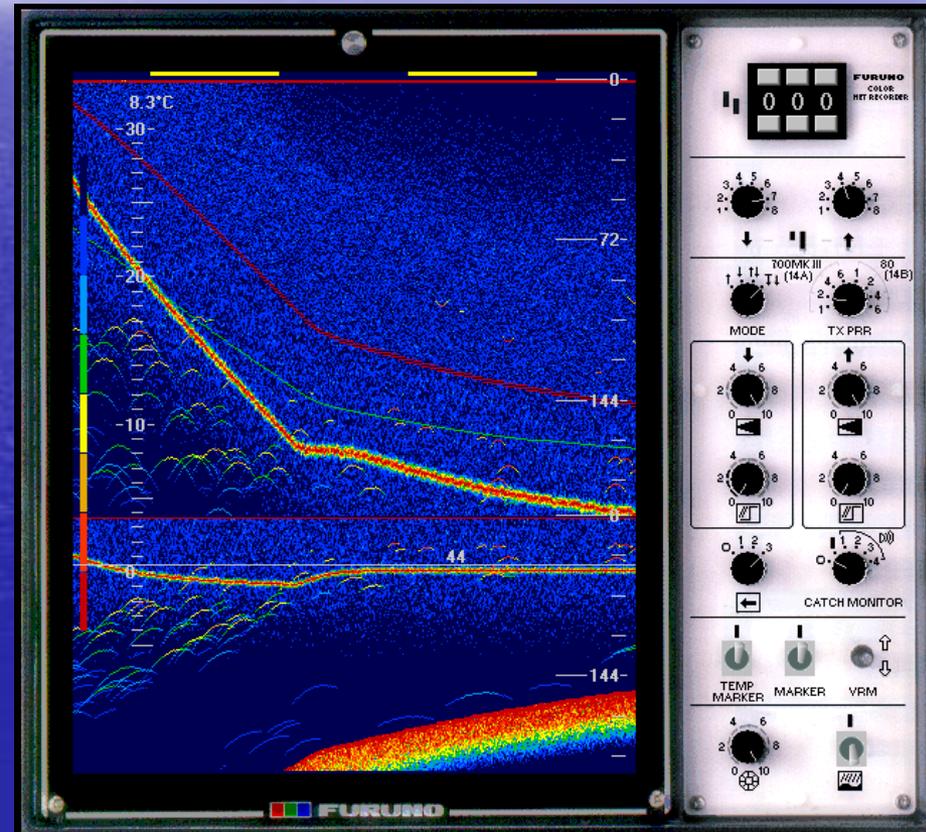
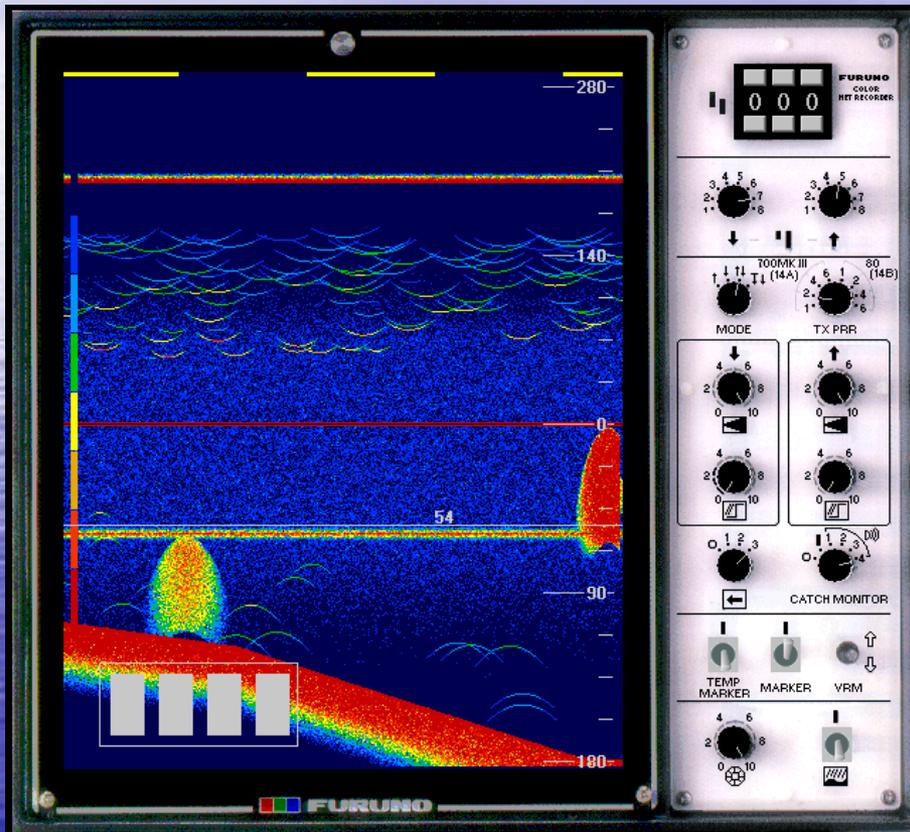
Screen view of the ES60 sounder in the mode of displaying two active frequency channels

Example of sensitivity adjustment of the receiving path in the simulator of the echo sounder ES60



Screen view of the simulator of the trawl probe CN14 in the "top and bottom sensing direction" display mode

Screen view of the CN14 trawl simulator in sea-bed mode





Thank you for attention

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