Training Course on the Exercising Quantitative Echosounder EK80

Introduction

Quantitative echosounder is a rapidly growing field in the study and management of fishery resources. Quantitative echosounder provides a non-invasive and cost-effective means of gathering information about the distribution, abundance, and biomass of fish populations, which is essential for the sustainable management of these resources. The use of quantitative echosounder has greatly expanded in recent years due to advances in technology, and they are now widely used in research applications.

The EK80 system is one of the most widely used systems in the fishery resources survey due to its high precision and reliability. The EK80 can provide accurate and detailed information about the distribution and size of fish populations, EK80 is an important tool in the management of fishery resources, and this system needs trained researchers who can use the system effectively.

The utilization of the Quantitative Echosounder EK80 in conducting effective and precise fisheries acoustic surveys necessitates the development of researcher capacity. Adequate training and familiarization with the EK80 will lead to the optimization of its performance and the accuracy of the survey data collected. This, in turn, will lead to improved decision-making and management of the fishery. In conclusion, capacity building for researchers in the use of the Quantitative Echosounder EK80 is essential for ensuring the validity and usefulness of acoustic survey results.

Objective

- Capacity building of researchers in using research equipment, EK80 from calibration, data collection to analysis.

Expected Output

- Participants learn the precise process of utilizing EK80 from calibration, data collection to analysis.

Expected Outcome

- National research activities by using Scientific Echo Sounder EK-80 conducted in SEAFDEC Member Countries.

Date, Venue, and Accommodation

- The training course would be organized on 29 May – 2 June 2023 (excluding traveling day) at SEAFDEC/TD, Samut Prakan, Thailand and the participants would be accommodated at the dormitory of SEAFDEC/TD.

Target Participants

- Researchers of SEAFDEC and fisheries officer.

Researchers :

- 3 scientists from Kamisu research center from Japan.

Instructors

- SEAFDEC is requesting cooperation from 3 researchers of the Japan Fisheries Research and Education Agency
- The total number of participants is 14 persons (3 Instructors and 11 trainees).

Timetable (as 21th April)

Time schedule may change due to force majeure

May. 29, 2023 (Mon)	0430-0500	Registration	SEAFDEC pier
	0500-0530	Opening and Group photo	
	0600-	M.V.SEAFDEC 2 leave TD pier	
	0800-1100	Preparation and lecture	M.V.SEAFDEC 2
	1100-1200	Lunch	
	1200-1700	Arrive at station 1 CTD Calibration	
	1700-1800	Welcome dinner	
	1800-2000	Noise test	
	2000	Leave for Station 2	
May. 30, 2023 (Tue)	0800-1100	CTD at Station 2. Survey track Station 2 to 3 conducting EK80 (Bottom trawling at first 1hour)	
	1100-1200	CTD at Station 3. Leave Station 3 to Station 4 and Lunch	
	1200-1500	CTD at Station 4. Survey track Station 4 to Station 5 conducting EK80 (Bottom trawling at first 1hour)	
	1500-1600	CTD at Station 5. Leave Station 5 to Station 6	
	1600-1700	Lecture if necessary	
	1700-1800	Dinner	
May. 31, 2023 (Wed)	0800-1100	CTD at Station 6. Survey track Station 6 to Station 7 conducting CTD, EK-80, (Bottom trawling at first 1hour)	
	1100-1200	Head to TD	
	1200-1300	Lunch	
	1700	Arrive at TD, Move data from EK80 to PC	
	1800	Dinner	
Jun. 1, 2023 (Thu)			
	0845-1015	Data analysis 1	Lecture room
	1015-1030	Coffee break	
	1030-1200	Data analysis 2	Lecture room
	1200-1300	Lunch	
	1300-1500	Data analysis 3	Lecture room
	1500-1515	Coffee break	

	1515-1600	Data analysis 4	Lecture room
Jun. 2, 2023 (Fri)			
	0845-1015	Data analysis 5	Lecture room
	1015-1030	Coffee break	
	1030-1200	Data analysis 6	Lecture room
	1200-1300	Lunch	
	1300-1500	Data analysis 7	Lecture room
	1500-1515	Coffee break	
	1515-1600	Data analysis 8	Lecture room
	1600-1715	Closing	Lecture room

Contact Persons

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