



## CRUISE REPORT ON RESEARCH ACTIVITY

M.V.SEAFDEC 2 Cruise No. 1-1/2004 19 April – 15 May 2004

Engineering and Hydro Acoustic practice, Fishing trial and Oceanographic equipment testing

Andaman sea: Thai water

**TD/RP/79** 

This report is base on preliminary data

For readers who may need data in the report, please contact to:

Southeast Asian Fisheries Development Center Training Department

> PO. BOX 97 Phrasamutchedi Samut Prakan, 10290 THAILAND

Tel: 662-4256100 Fax: 662-4256110 E-mail: td@seafdec.org

# **Cruise Report**

#### 1.Cruise Summary

Vessel name: MV.SEAFDEC2

Cruise no.: Leg no: -1-1/2004

**Duration**: 19 April – 15 May 2004

**Project Title:** 

**Objective:** To carry out Engineering practice, Fishing test and acoustic

equipment practice.

**Covered water:** Andaman sea

from 97°00'-98°00' and 7°00'- 8°00'

Port of call: Phuket

**Expected date for final report or scientific paper:** 

# **2. List of Research Projects** Ship personal

No.	Position	Name		
1.	Captain	Mr. Tossaporn Sukhapindha		
2.	Chief Engineer	Mr. Veerachai Chettasumon		
3.	Second Officer	Mr. Suren Pruksarat		
4.	Third Officer	Mr. Somphote Vudthipanyo		
5.	Second Engineer	Mr. Komson Sangphuek		
6.	Third Engineer	Mr. Sak Pradit		
7.	Boatswain	Mr. Vudthirat Vudthipanyo		
8.	Steersman	Mr. Pradit Kui-Prasert		
9.	Steersman	Mr. Tana Rungjoy		
10.	Fitter	Mr. Vallop Phimroon		
11.	Oiler	Mr. Prew Shodok		
12.	Oiler	Mr. Boontarin Wora-in		
13.	Oiler	Mr. Dum Tunyachareon		
14.	Cook	Mr. Saichon Konnom		
15.	Ship's Boy	Mr. Somsak Phackumhuk		

#### Personal from SEAFDEC/TD and equipment vender

No.	Position	Name		
1.	Machinery Engineer	Mr. Hiroshi Shimotai (19/4-2/5)		
2.	Fishing Expert	Mr. Nobuyuki Imai (25/4-8-5)		
3.	Fishing Expert	Mr. Osamu Oba (25/4-8/5)		
4.	Fishing Expert	Mr. Koji Sugita (25/4-8/5)		
5.	Acoustic equipment	Mr. Chihari Suzuki (1-14/5)		
6.	Acoustic equipment	Mr. Masaki Ogata (9-14/5)		
7.	Navigation aids and radios/engineer	Mr. Yukihiro Narita (1-8/5)		
8.	Fisheries Engineering	Mr. Toyonori Watanabe (25-29/4)		
9.	Engineer	Mr. Nakano (25/4-2/5)		
10.	Participant	Mr. Sutee Rajruchithong (24/4-14/5)		
11.	Participant	Mr. Chainarong Chaopaknam (24/4-8/5)		
12.	Participant	Dr. Yuttana Theparoonrat (9-15/5)		
13.	Participant	Mr. Suthipong Thanasarnsakorn (19-24/5)		
14.	Participant	Mr. Thaweesak Timkrub (19-24/5)		
15.	Participant	Dr. Taweekiet Amornpiyakrit (5-15/5)		
16.	Participant	Mr. Nopporn Manauit (5-15/5)		
17	Participant	Ms. Pattaratjit Kaewnuratchadasorn (19/4-3/5)		
18	Participant	Ms. Kamolwan Pokaeo (19/4-3/5)		
19	Participant	Ms. Penchan Laongmnee (25/4-1/5)		
20	Participant	Mr. Isara Chanrachakit		
2.1		A C D ' 1		

17	Participant	Ms. Pattaratjit Kaewnuratchadasorn (19/4-3/5)
18	Participant	Ms. Kamolwan Pokaeo (19/4-3/5)
19	Participant	Ms. Penchan Laongmnee (25/4-1/5)
20	Participant	Mr. Isara Chanrachakit
21	Participant	Mr. Sayan Promjinda
22	Participant	Mr. Pratakphol Prajukjit
23	Participant	Mr. Aussawin Bouchoui

#### 3. Observation Summary

Cruise was designed for conducting the practical training on the Engineering, Fishing operation, Oceanographic data collecting by using oceanographic equipments, navigators practice on the use of modern navigation and hydro-acoustic equipments. Technicians from the companies i.e., Engineer (Niigata Dockyard, Kawasaki Heavy Industry and Yanmar Engine Company), Fishing gear and Accessory (Teitoseiko), Oceanographic equipment (Nippon Kaiki) and Navigation & Hydroacoustic equipment (FURUNO company) had collaborated to conducted the final trial on the efficiency of all equipment installed on board M.V.SEAFDEC2 and to teach scientists and crews of M.V.SEAFDEC2 on the use of those equipments. Fishing operation by Bottom trawl, Pelagic trawl, Pelagic longline, Bottom vertical longline and Drifting gillnet has been successful practiced during the cruise. Practical on the ICTD and TSG had been arranged to oceanographers. Navigator and scientist also had practiced the data recorded by Scientific Echo Sounder FQ-80 and Side-scanned SONAR, HS-600. Scientists and crews of SEAFDEC2 gained better skill and understand the operation of fishing and oceanographic survey.

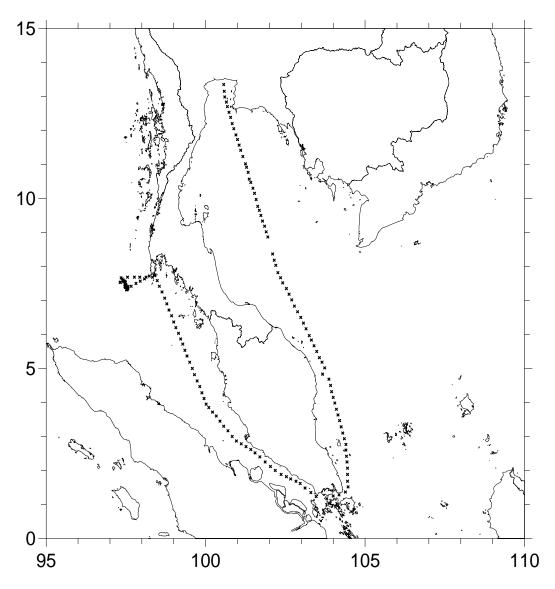


Fig. 1 Ship route of MV.SEAFDEC2 Cr1-1/2004

Fig. 2 Picture of fishing trial and Oceanographic equipment test



# PELAGIC LONGLINE FISHING LOGSHEET

Record by.....

Cruise n	o: 1-1/2004		Name o	Air temp:	32.82	°C			
Station 1	no: 02		M.V.SE.	AFDEC 2	2	Air press:	1005	mbar	
Date: 3	/05/2004					Humidety	58	%	
Moon ag	ge:	Sta	art shooting	Fin	ish shooting		Water		
	Wind	Time	1555	Time	1705	Surface te	-	66 °C	
Speed	Direction	Lat.	7_27.46 N	Lat.	7_25.24 N	Bottom ter		°C	
1	280	Long.	97_42.10 E	Long.	97_45.41 E	Transparancy:		m	
Weather	condition: Clear	St	Start hauling		Finish hauling		Current		
Sea cond	dition: Slight	Time	0630	Time	0825	Depth	Speed	Direction	
	Gear	Lat.	07_30.58 N	Lat.	07_33.30 N	10	0.9	14	
No. hoo	k/basket:	Long.	97_43.98 E	Long.	97_43.73 E	50	0.8	15	
Total hook no: 221		Memora	andum: set co. 1	100	0.4	334			
Immersion time:		Depth of sea 421 m				Total catch in number:			
Type of bait: Scad						Total catcl	h in weigh	t:	

no.	Species	Length	Weigth	Remark
1	Skipjack		2.1	
2	Carcahrias sp.			
3	Blue marlin			
4	Alopias pelagicus			was lost
5	Alopias pelagicus			
6	Stingray			
7	Alopuas pilagicus			
8	Alopuas pilagicus			Release
9	Alopuas pilagicus			Release
10	Alopuas pilagicus			Release
				_

## TRAWL FISHING LOGSHEET

Record by.....

Cruise no: 01-1/2004			Name of Vessel				33.4	°C	
Station no: 04			M.V.S	Air temp: Air press:	1005	mbar			
Date: 30 /04/	2004	S	tart shooting	F	nish shooting	Humidity: 63			
Moon age:		Time	1300	Time	1313		Water		
	Wind	Lat.	07_57.17 N	Lat.	07_56.86 N	Surface temp:	32.1	°C	
Speed	Direction	Long.	98_06.88E	Long.	98_07.16 E	Bottom temp:		°C	
0	50		Start hauling	F	inish hauling	Transparancy:		m	
Sea condition	smooth	Time	1345	Time	1410	Color:			
Weather cond	ition: c	Lat.	07_55.37 N	Lat.	07_55.89 N		current		
Speed vessel:	4 Kt	Long.	98_08.78 E	Long.	98_09.35 E	Depth	Speed	Direction	
R.P.M. 900			Fisl	ning Gear	10	0.6	356		
Propeller pit:	12	Type:	Type: Bottom trawl			50	0.1	101	
	Wire	Towing d	Towing distance & Direction 133 /2.2 NM						
Out 250	m, 300 m	Net open	Net opening: 4 m			Type of bottom: M/S			
Angle		Net sprea	Net spread: 14.1m				Depth of capture: 79 M		
Memorandum	:	-				-			

no.	Fish Species	Length	Weight	Other species	Length	Weight	D 1 .
		(cm)	(kg)		(cm)	(kg)	Remarks
1	Loligo spp.		2.9				
2	Priacanthus spp.		0.3				
3	Epinephalus sp.		1				
4	Nemipterus spp.		0.2				
5	Leiognathus spp.		1.5				
6	Saurida spp.		0.35				

## BOTTOM VERTICAL LONGLINE FISHING LOGSHEET

Record by...P. SAYAN.....

						record of		11 11
Cruise no: 1-	1 /2004	Name of Vessel				Air temp:	29.18	°C
Station no: 0	1		M.V. SE	AFDEC	2	Air press:	1005	mbar
Date: 05/5/20	004					Humidity: 78		
Moon age:		Sta	rt shooting	Fin	ish shooting	Water		
V	Vind	Time	0630	Time	0707	Surface te	mp: 30.4	8 °C
Speed	Direction	Lat.	06_37.085 N	Lat.	06_35.928 N	Bottom te	mp:	°C
4	330	Long.	98_06.077 E	Long	98_05.845 E	Transpara	ncy	m
Weather cond	lition: cloudy	Start hauling		Finish hauling		Current		
Sea condition	: Slight	Time	0900	Time	1015	Depth	Speed	Direction
Total branch	line: 72	Lat.	6_35.95 N	Lat.	6_36.62 N	10	0.5	S
No. hook/branch line: 8		Long.	98_06.11 E	Long	98_06.28 E	50	0.4	SSW
Total hook no: 576		Memora	ndum: Ship spe	100	0.3	NEE		
Type of bait: squid		Direction 180				Total catch in number:		
Immersion tir	ne:		Sae depth 1	41 m		Total cate	h in weight:	

Branch	Hook	Species	Length	Weight	D1
No.	No.		(cm)	(kg)	Remarks
		Lepichielus carnolabrum		13.9	14 pcs.
		Epinephelus spp.		16.3	14
		Priacanthus sp.		1.6	1
		Pristipomides sp.		41.9	40
	*	Scorpaenodes sp.		6	2
		Centroberyx druzhinini		8.3	6
		Satyrichthys welchi		0.2	1
		Octopus spp.		0.6	1
		Gymnothorax sp.		0.2	1
	*	Shark (Northern wobbelong)		5	14
		Squalus japonicus		1.87	1
		Etelis sp.		9.1	7

## DRIFTING GILLNET FISHING LOGSHEET

Record by Aussawin.....

Cruise no. 1-1	Cruise no. 1-1/2004		Name of Vessel				80.9	°C
Station no. 01			M.V. SEA	AFDFEC 2		Air press:	1009.5	mbar
Date: 07/05/0	4					Humidity 73		
Moon age:		Star	t shooting	Fini	sh shooting		Water	
7	Wind	Time	0949	Time	1004	Surface temp:	: 30.4	46 °C
Speed	Direction	Lat.	7_38811 N	Lat.	7_38.194 N	Bottom temp:		°C
1.5	150	Long	98_07.723 E	Long	98_07.326 E	Transparancy	:	m
Weather cond	ition: cloudy	Sta	Start hauling		Finish hauling			
Sea condition	: Slight	Time	1353	Time	1440		current	
Fish	ing Gear	Lat.	7_38.84 N	Lat.	7_39.140 N	Dept	Speed	Direction
Number of		Long	98_07.036	Long	98_16.606 E	10	0.6	NEE
net panel:		Memorand	lum: Ship spee	ed 2 kt		50	0.5	ENE
Total net Direcction		150		100	0.4	NW		
Length:						Type of botto	m:	
Course setting	g:					Depth of capt	ure: 83 m	

no.	Species	Length (cm)	Weight ( Kg)	Remarks