

NO.33
MAY 1971

CSK NEWSLETTER



JAPAN OCEANOGRAPHIC DATA CENTER
Hydrographic Department, Maritime Safety Agency
Tokyo, Japan

C O N T E N T S

- I. Proposed Plan for CSK of the Philippines
- II. Replacement of the Director of the Japan Oceanographic Data Center
- III. Cruise Reports
1. Republic of Korea
Suro No. 3 (21 November - 5 December 1970)
 2. Japan
Keiten Maru (25 April - 9 May 1970)
Takuyo (12 August - 3 September 1970)
- IV. Abstract of the Papers on CSK
- V. Publications Received
- (1) Miscellaneous Reports of the National Science Museum, No. 6, Pt. 1, February 1971.
 - (2) Miscellaneous Reports of the National Science Museum, No. 6, Pt. 2, March 1971.
- VI. Publications
- Existing Oceanographic Station Data in the South China Sea, September 1970.
- Data Report of CSK, Nos. 164, 230, 244, 245, 248, 249, 269
- VII. Catalogue of CSK Data Received during 1965 - 1970
- VIII. Data Received
- Japan (Takuyo, Keiten Maru, Kofu Maru, Ryofu Maru, Koyo Maru)
- Korea (Suro No. 3)
- USSR (Akademik Korolev, Iskatel, Orlick)

I. PROPOSED PLAN FOR CSK OF THE PHILIPPINES

The following information of CSK standard observation plan from Dr. Mario C. Manansala, CSK National Coordinator for the Philippines was received by Dr. Kiyoo Wadati, International Coordinator for CSK.

Dr. Kiyoo Wadati
CSK International Coordinator
Saitama University
Shimo-okubo, Urawa-shi
Saitama-ken. Japan

30 March 1971

S i r :

In compliance with Recommendation 1.5 adopted at the 7th Meeting of the International Coordination Group for the Cooperative Study of the Kuroshio (ICG/CSK) held in Tokyo on October 1-3, 1970, I should like to inform you that the Philippines has tentatively set plans for oceanographic observations at standard sections in the Western Pacific Ocean off the Eastern Coast of the Philippines. A section at 10° N latitude from the continental shelf of the Philippines to the 131st East Meridian, extending some 300 nautical miles and a return line at about 8°N latitude is proposed for standard observations during 1972 or possibly 1973. An alternate East-West section on the Eastern Coast of Luzon at about 18°N latitude extending 400 nautical miles to the 130th East Meridian and a return line at about 16°N latitude may also be executed. We believe that standard observations at these two sections could contribute to the knowledge of the water circulation in the Western Pacific, especially on that branch of the Kuroshio that sweeps off the Eastern Coast of Mindanao.

These plans and program of observation at standard sections were presented at the 61st regular meeting of the National Committee on Marine Sciences, National Science Development Board, and approved as a national programme. A copy of this letter has also been forwarded to the Kuroshio Data Center for their information and files.

With best personal regards,

Sincerely yours,

(S i g n e d)

MARIO C. MANANSALA

MCM/lab

cc: The Director
Kuroshio Data Center
Hydrographic Department
Maritime Safety Agency
Tokyo, Japan

Chief Geophysicist
Bureau of Coast and Geodetic Survey
CSK National Coordinator
for the Philippines

* * * * *

II. REPLACEMENT OF THE DIRECTOR OF THE JAPAN OCEANOGRAPHIC DATA CENTER

Mr. Shigeo Hikosaka resigned from the directorship of the Japan Oceanographic Data Center and Mr. Hideo Nitani has succeeded him on April 1, 1971. At the same time, Mr. Nitani will also serve as Director of the Kuroshio Data Center for CSK.

* * * * *

III. CRUISE REPORT

The following cruise reports were received by the Center from each participating agencies of the Republic of Korea and Japan.

1. Republic of Korea

1.1 Suro No. 3

(1) Operating Agency

Hydrographic Office, Republic of Korea

(2) Personnel

Scientists: Sung-myong Hong, Hyung-il Dong, Kyo-sung Choo,
Sung-cho Park, Young-kyu Her, Young-sub Choe

Captain: Jae-kyu Hwang

Officers and Crew: 20

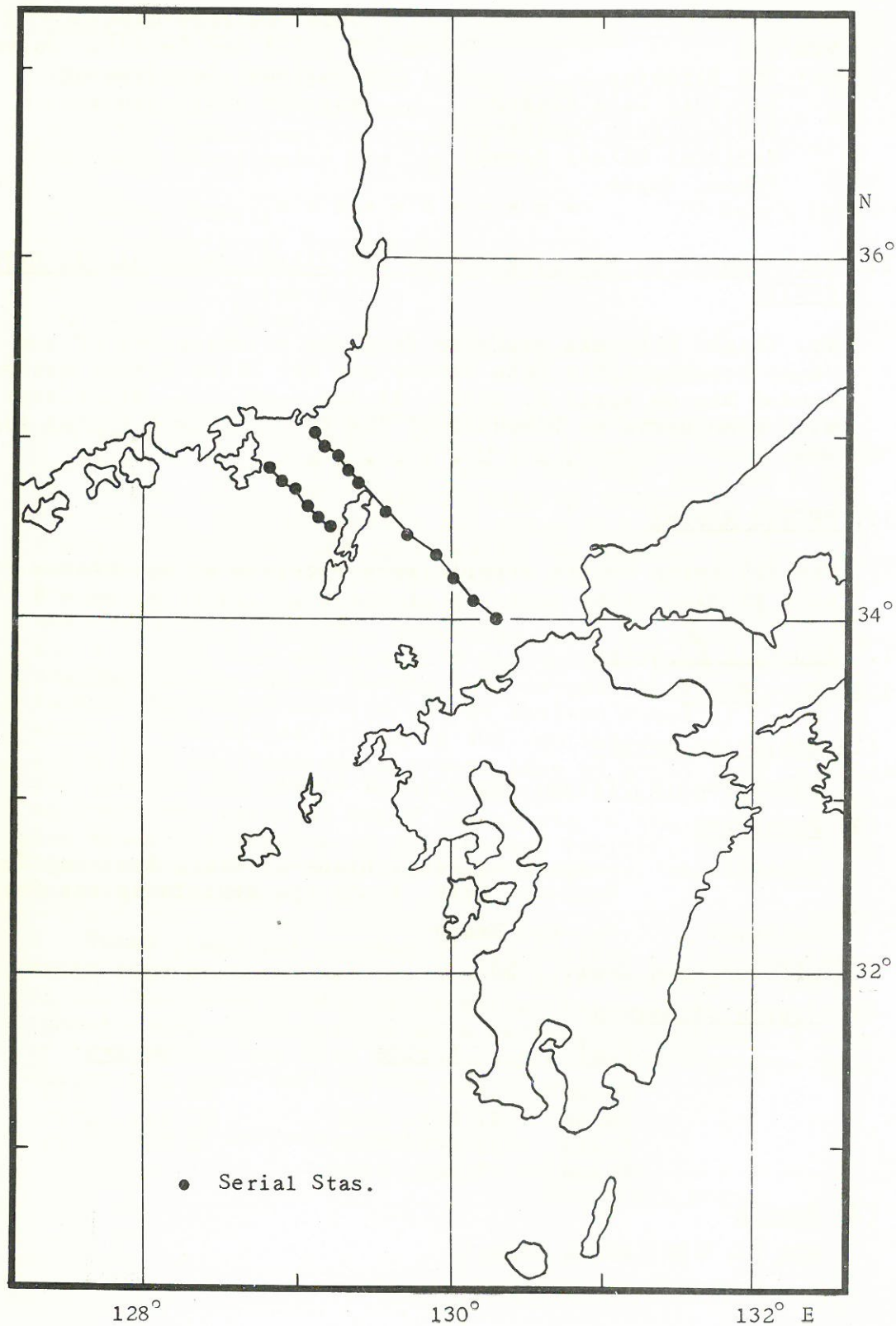
(3) Cruise Itinerary

<u>Port</u>	<u>Arrive</u>	<u>Depart</u>
Pusan		21 Nov. 1970
Pusan	21 Nov. 1970	27 Nov. 1970
Pusan	28 Nov. 1970	4 Dec. 1970
Pusan	5 Dec. 1970	

(4) Region

MSQ No. 132 (Korea Strait)

Station Map of the "SURO No. 3", 21 Nov. - 5 Dec. 1970



(5) Type of Observation

Serial:

No. of Stas. - 22
 Data - T, S, O₂, pH, etc.
 Sampling Depths - 0, 10, 20, 30, 50, 75, 100, 125, 150, 200m and Bottom.
 Max. Sample Depth - 220m

BTs : 27
 Currents : Drift bottle - 1000: 40-100 bottles at the 16 selected stations
 Bottom Sediments : Calm shell snapper - 10
 Biological : Zooplankton - 3
 Meteorological : Wind, Weather, Air temp.; dry, wet, Bar., Clouds, vis., etc.
 Surface : Color, Transp., Waves, etc.

2. Japan

2.1 T & R Keiten Maru

(1) Operating Agency

Faculty of Fisheries, Kagoshima University

(2) Personnel

Scientists: T. Henmi (Captain, Keiten Maru)
 M. Tsurudome (Chief Officer, "
 Y. Yuwaki (2nd Officer, "
 K. Shimada (3rd Officer, "
 Captain: T. Henmi

Officers and Crew: 27 Other Members: Students - 15

(3) Cruise Itinerary

Port	Arrive	Depart
Kagoshima		25 April 1970
Kaohsiung	9 May 1970	
	(started for the Indian Ocean)	

(4) Region

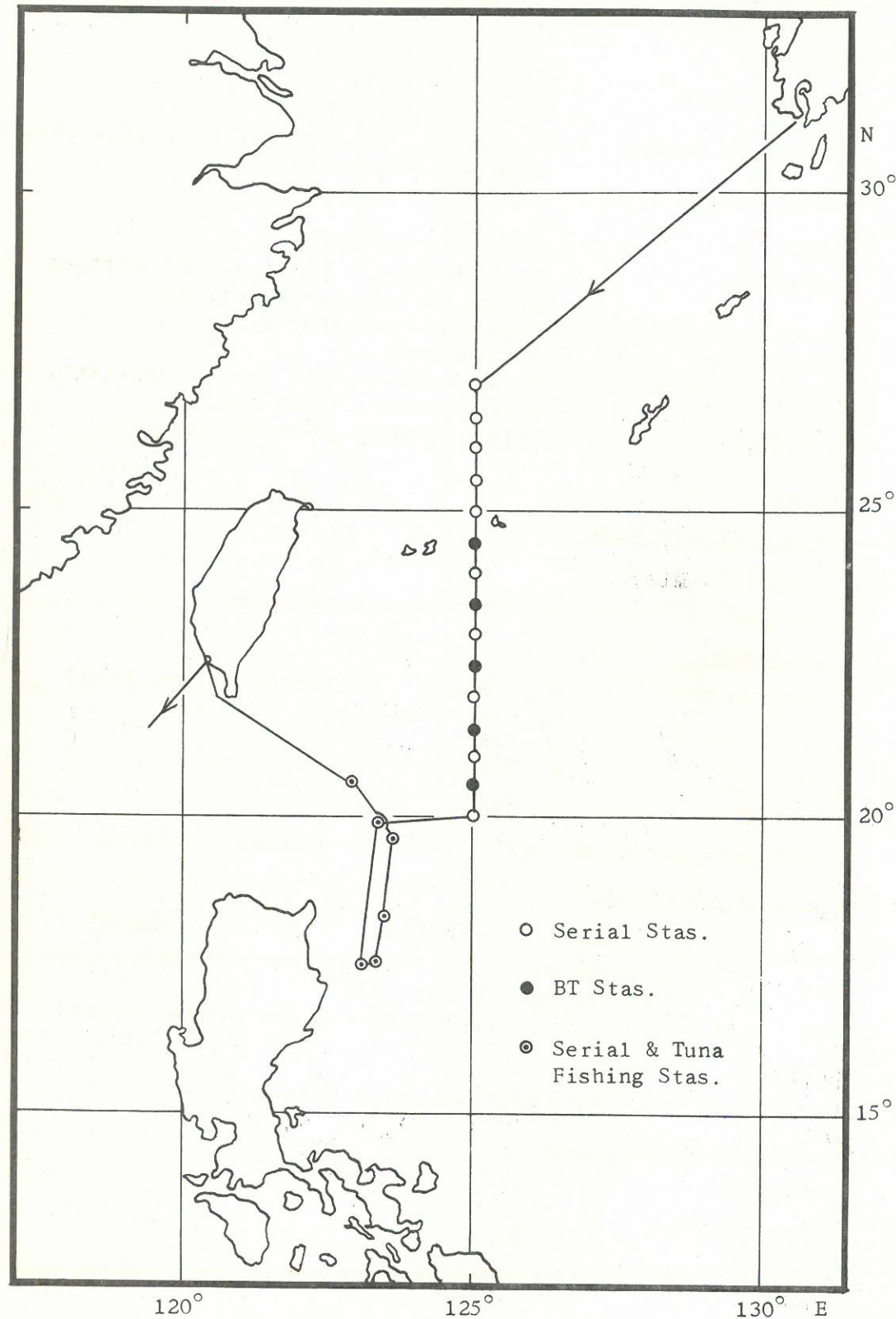
MSQ Nos. 060, 096 (South-east of Taiwan)

(5) Type of Observation

Serial:

No. of Stas. - 16
 Data - T, S

Station Map of the "KEITEN MARU", 25 April - 9 May 1970



Sampling Depths - 0, 10, 20, 30, 50, 75, 100, 125, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200 m.

Max. Sample Depth - 1380m

BTs : 21 - at each station and in-between stations

Bottom Topography : Sounding - at each station

Biological : Plankton - 16, Larva - 10

Meteorological : Wind, Weather, Air temp.; dry, wet, Bar., Hum., Clouds, Vis., etc.

Surface : Color, Transp., Sea and Swell

(6) Remarks

Tuna long-line fishing experiment

2.2 Takuyo

(1) Operating Agency

Hydrographic Department, Maritime Safety Agency

(2) Personnel

Scientists: R. Watanabe, S. Shiozaki, S. Nakabayashi, K. Heya, T. Imoto, Y. Tagaya, H. Nakamura, S. Uetake, S. Kitahara

Captain: S. Toki

Officers and Crew: 37

(3) Cruise Itinerary

Port	Arrive	Depart
Tokyo		12 August 1970
Yokohama	23 August 1970	25 August 1970
Tokyo	3 September 1970	

(4) Region

MSQ Nos. 130, 131 (S. & E. of Japan)

(5) Type of Observation

Serial:

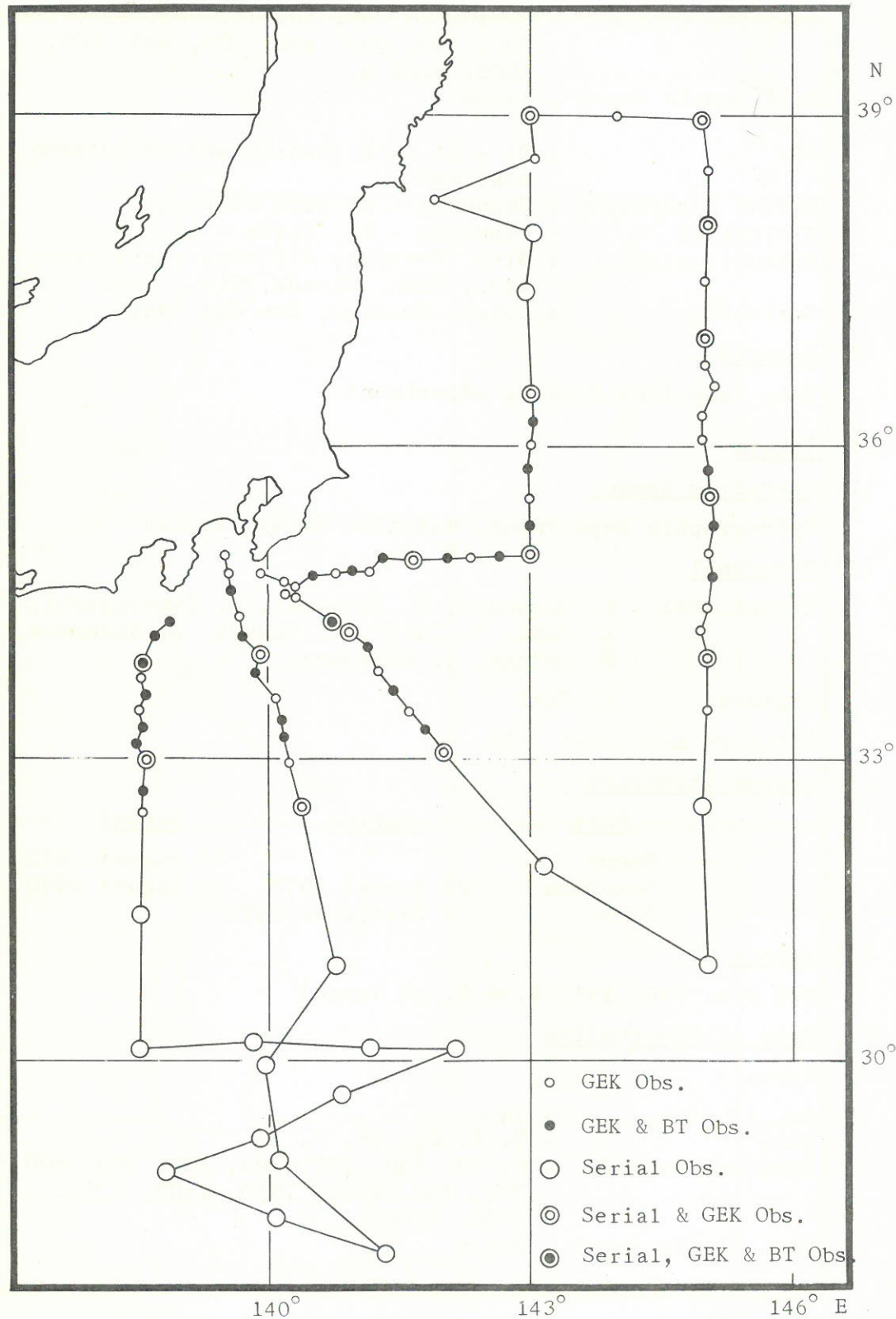
No. of Stas. - 34

Data - T, S, O₂, pH, P, Si

Sampling Depths - 0, 50, 100, 200, 300, 400, 500, 600, 700, 800, 1000, 1250, 1500, 1750, 2000, 2250 m.

Max. Sample Depth - 2195m

Station Map of the "TAKUYO" , 12 Aug. - 3 Sept. 1970



BTs : 28
 Currents : 75 with GEK
 Bottom Topography : Sounding - full course
 Meteorological : Wind, Weather, Bar., Air temp.; dry, wet, Clouds, Vis.
 Surface : Color, Sea and Swell, Radioactivity

(6) Remarks

STD Observations - 81 stations

* * * * *

IV. ABSTRACT OF THE PAPERS ON CSK

(Continued from the previous issue, No. 31/32, of the CSK Newsletter)

(64) Jotaro Masuzawa*, Tsutomu Akiyama*, Yutaka Kawarada* and Tsutomu Sawara*: Preliminary report of the Ryofu Maru Cruise Ry7001 in January - March 1970. The Oceanographical Magazine, Vol. 22, No. 1. pp. 1 to 25, Oct. 1970.

Introduction: An oceanographic cruise by the Ryofu Maru of the Japan Meteorological Agency (J.M.A.) was carried out in the western North Pacific from January 16 to March 2, 1970. The cruise is divided into two parts as seen in Fig. 1 (Ref: Newsletter No. 29, page 10). The purpose of the first leg is to make a long meridional section at 137° E. This section was made by the Ryofu Maru three times in the Januaries of 1967-1969 for the Cooperative Study of the Kuroshio and Adjacent Regions (CSK) (Masuzawa, 1967a; 1968; Akamatsu and Sawara; 1969). The other part of this cruise aims to observe the gross shape of the Kuroshio's path south of Japan. This is participation in the monitoring of the oceanic conditions around Japan, which has been conducted for many years by Marine Division and four Marine Observatories of J.M.A.

* Japan Meteorological Agency

* * * * *

V. PUBLICATIONS RECEIVED

The following publications are those that were recently received by the KDC (JODC). They are considered to be specially useful for CSK.

(1) Data Report and Distributional Maps of the CSK Standard Zooplankton Samples by Isamu Yamazi, Department of Zool-

ogy, National Science Museum. Miscellaneous Reports of the National Science Museum, No. 6, Pt. 1, pp. 1-344, February 1971.

- (2) Data Report and Distributional Maps of the CSK Standard Zooplankton Samples by Isamu Yamazi, Department of Zoology, National Science Museum. Miscellaneous Reports of the National Science Museum, No. 6, Pt. 2, pp. 345-703, March 1971.

* * * * *

VI. PUBLICATIONS

The following the "Existing Oceanographic Station Data in the South China Sea" and 7 volumes of the "Data Report of CSK" series were published by KDC(JODC) from January to April 1971.

Existing Oceanographic Station Data in the South China Sea, September 1970.

No.	Ship & Area	Period	KDC Ref. No.
164	Yang Ming Surrounding Waters of Taiwan	Sept. - Oct. 1968	21K007
230	Akademik Shirshov N. of North Pacific	Jan. - Mar. 1969	90K025
244	Yang Ming Surrounding Waters of Taiwan	Apr. - May 1969	21K008
245	Iskatel N. W. of North Pacific	May - Jun. 1969	90K026
248	Hunt South China Sea	Jun. - Aug. 1969	31K008
249	Fishery Res. No. 2 South China Sea	June 1969	86K012
249	Fishery Res. No. 2 South China Sea	July 1969	86K013
249	Fishery Res. No. 2 South China Sea	August	86K014
269	Takuyo South of Japan	May 1970	49K125

* * * * *

III. CATALOGUE OF CSK DATA RECEIVED DURING 1965 - 1970

Date Received No./Day/Yr.	KDC Ref. No.	Agency	Period	Area	No. of Stas.	Serial Data	BTS	Currents	Bottom Topography	Sediments	Biological	Data Report of CSK	
												Pub. No.	Mo./Yr.
11.28/65	49K301	SH KMOJMA	05.16-05.17,1965	S.E.YAKU	7	T S O	13	13				26	11/66
12.10/65	49K001	TA HDMSA	06.25-09.07,1965	E.PHILIP.	103	T S O P	279	245	D		P	2	05/66
02.14/66	49K003	RY MCOJMA	06.25-08.09,1965	E.JAPAN	53	T S O P	221	222	D		P	10	10/66
03.18/66	49K302	CH NMOJMA	07.01-07.02,1965	S.E.YAKU	7	T S O P	9	13	D		P	26	11/66
12.05/65	49K009	SN TUF	07.09-07.21,1965	S.JAPAN	13	T S O	25	13	DTP			5	06/66
10.09/65	49K013	KY SUF	07.13-07.22,1965	E.CHIN.SEA	16	T S	28	28	D			1	05/66
04.09/66	49K012	NA NU	07.15-07.16,1965	S.JAPAN	12	T S O	12	5	DTP			6	06/66
02.14/66	49K004	KO HMOJMA	07.22-07.28,1965	E.JAPAN	16	T S O P	29	29	D			14	10/66
11.28/65	49K005	SH KMOJMA	07.27-07.29,1965	S.JAPAN	8	T S O P	15	15	D			11	08/66
02.14/66	49K006	CH NMOJMA	07.27-08.07,1965	E.CHIN.SEA	29	T S O P	54	53	D			12	06/66
06.18/66	49K010	KG KU	07.28-08.10,1965	S.JAPAN	16	T S	39	2	D			4	07/66
12.05/65	49K002	KA HDMSA	08.07-08.17,1965	S.JAPAN	13	T S O P	25	13	D			3	06/66
12.10/65	49K007	SI MMOJMA	08.10-08.30,1965	S.6E.JAPAN	38	T S O P	94	149	D			13	08/66
02.14/66	49K303	CH NMOJMA	08.12-09.01,1965	E.YAKU	23	T S O P	44	43	D			26	11/66
10.09/65	49K014	KE SUF	08.12-08.14,1965	S.E.YAKU	7	T S O P	9	13	D			1	05/66
06.18/66	49K011	KY SUF	08.23-08.31,1965	E.CHIN.SEA	15	T S	25	25	D			8	07/66
03.18/66	49K304	CH NMOJMA	09.25-09.27,1965	S.E.YAKU	7	T S O P	9	17	D			26	11/66
02.09/66	49K015	SU NRFL	10.05-10.07,1965	S.JAPAN	11	T S	11	11	D			9	06/66
12.10/65	49K401	KA HDMSA	10.09-10.18,1965	S.JAPAN	47	T S	90	70	D			19	08/66
12.10/65	49K403	ME HDMSA	10.09-10.18,1965	S.JAPAN	8	T S	76	124	D			18	08/66
12.10/65	49K402	TA HDMSA	10.10-10.18,1965	S.E.YAKU	7	T S O P	9	13	D			26	11/66
03.18/66	49K305	CH NMOJMA	11.01-11.02,1965	S.E.YAKU	7	T S O P	14	14	D			26	11/66
03.18/66	49K306	SH KMOJMA	11.11-11.02,1965	S.E.YAKU	482*/ 23		1229*1113*						
05.04/66	21K001	YM NCOR	08.10-10.13,1965	ADJ.TAIWAN	38	T S O P	TP N2 N3	SI PH	D	C	P	22	11/66
12.25/65	24K002	KE FRDA	08.09-08.27,1965	YELLOW SEA	69	T S O P		PH	D			16	06/66
12.25/65	24K001	BU FRDA	08.14-09.06,1965	JAPAN SEA	84	T S O P		PH	D			17	06/66
04.30/66	24K004	BU FRDA	08.14-08.27,1965	S.KOREA	32	T S O P		PH	D			15	08/66
04.30/66	24K005	KE FRDA	12.02-12.12,1965	JAPAN SEA	41	T S O P		PH	D			37	12/66
09.28/66	31K001	AT WHOI	08.04-09.23,1965	S.JAPAN	106	T S O		D				20	10/66
02.17/66	74K001	CM FR5	10.02-10.10,1965	S.CHIN.SEA	27	T S O P	N3		D			21	12/66
07.06/66	90K001	SH	07.16-08.18,1965	E.6S.JAPAN	71	T S O P	N2	SI PH AL				23	12/66
09.29/66	90K003	ZH	07.20-09.03,1965	E.6S.JAPAN	62	T S O		SI PH				25	12/66
09.29/66	90K002	GR	07.28-10.09,1965	E.6S.JAPAN	86	T S O P						24	12/66
09.29/66	90K003	GR	07.28-10.09,1965	E.6S.JAPAN	199*/ 3								
07.20/66	49K307	CH NMOJMA	01.18-01.20,1966	S.E.YAKU	7	T S O P	TP N2 N3	PH	D			60	02/67
08.08/66	49K022	OS HU	11.30-01.25,1966	S.JAPAN	17	T S O P			D			33	11/66
07.20/66	49K020	CH NMOJMA	01.26-02.28,1966	E.CHIN.SEA	29	T S O P			D			28	11/66
10.12/66	49K017	RY MDJMA	02.04-03.09,1966	E.JAPAN	28	T S O P	NH N2 N3	SI	D			30	10/66
07.12/66	49K019	SH KMOJMA	02.10-03.14,1966	S.JAPAN	7	T S O P	N2		D			29	02/67
12.27/66	49K018	KO HMOJMA	02.12-03.14,1966	E.JAPAN	13	T S O P			D			32	11/66
07.12/66	49K021	SI MMOJMA	02.12-03.10,1966	JAPAN SEA	23	T S O P			D			27	10/66
05.13/66	49K016	TA HDMSA	02.23-03.15,1966	S.E.JAPAN	31	T S O P	N2	SI PH	D			63	

COUNTRY	SHIP	AGENCY
49 JAPAN	CH CHOFU MARU	NMO,JMA
49 JAPAN	HK HAKUHO MARU	ORI,UT
49 JAPAN	KA KAIYO	HD,MSA
49 JAPAN	KE KEITEN MARU	KU
49 JAPAN	KG KAGOSHIMA MARU	KU
49 JAPAN	KO KOFU MARU	HMO,JMA
49 JAPAN	KY KOYO MARU	SUF
49 JAPAN	ME MEIYO	HD,MSA
49 JAPAN	NA NAGASAKI MARU	NU
49 JAPAN	OS OSHORO MARU	HU
49 JAPAN	RY RYOFU MARU	MD,JMA
49 JAPAN	SA SATSUMA	MSA
49 JAPAN	SH SHUMPURU MARU	KMO,JMA
49 JAPAN	SI SEIFU MARU	MMO,JMA
49 JAPAN	SN SHINYO MARU	TUF
49 JAPAN	SU SHUNYO MARU	NANSEI RFRL
49 JAPAN	SY SOYO MARU	TOKAI RFRL
49 JAPAN	TA TAKUYO	HD,MSA
49 JAPAN	TE TENYO MARU	SUF
49 JAPAN	TN TANSEI MARU	ORI,UT
49 JAPAN	TO TOKAI UNIVERSITY II	TOKAI UNIV.
49 JAPAN	UM UMITAKA MARU	TUF
49 JAPAN	YO YOKO MARU	SEIKAI RFRL
21 CHINA	YM YANG MING	NCOR
24 KOREA	BA BAEK DU SAN	FRDA
24 KOREA	BK BUK AK SAN	FRDA
24 KOREA	BU BUK HAN SAN	FRDA
24 KOREA	CH CHUN MA SAN	FRDA
24 KOREA	HA HAN RA SAN	FRDA
24 KOREA	JI JI RI SAN	FRDA
24 KOREA	KE KERIM	FRDA
24 KOREA	SR SURO NO.3	HO
24 KOREA	SU SURO NO.1	HO
24 KOREA	TA TAE BAEK SAN	FRDA
31 UNITED STATES	AR ARGO	SIO
31 UNITED STATES	AT ATLANTIS II	WHOI
31 UNITED STATES	BS BERING STRAIT	CG
31 UNITED STATES	CH CHAUTAUQUA	CG
31 UNITED STATES	HU HUNT	NAVOCEANO
31 UNITED STATES	KE GEORGE B. KELEZ	BCF
31 UNITED STATES	MA MARYSVILLE	CG
42 INDONESIA	BU BURUDJULASAD	NHO
42 INDONESIA	JA JALANIDHI	NHO
66 PHILIPPINES	RE RESEARCHER I	PFC
74 HONG KONG	CM CAPE ST. MARY	FRS
86 THAILAND	O1 OCEANO. VES. 1	HD,RTN
86 THAILAND	F2 FISH. RES. 2	DF
90 USSR	GR ULIANA GROMOVA	
90 USSR	IS ISKATEL	
90 USSR	KO AKADEMIK KOROLEV	
90 USSR	NE G. NEVELSKOY	
90 USSR	OR ORLICK	
90 USSR	SH U.M. SCHOKALSKY	
90 USSR	SI AKADEMIK SHIRSHOV	
90 USSR	VI VITJAZ	
90 USSR	ZH ZHYEMCHUG	

VIII. DATA RECEIVED

Catalogue of Data Received by KDC (JODC), 1 January - 30 April 1971

Date Received Mo./Day/Yr.	KDC Ref. No.	Ship Code*	Agency	Period	Area	No. of Stas.	Serial Data	BTs	Currents	Bottom Topography	Sediments	Biological
---------------------------	--------------	------------	--------	--------	------	--------------	-------------	-----	----------	-------------------	-----------	------------

01.21/71	49K128	TA	HDMSA	08.12-09.03,1970	S.E.JAPAN	34 T			28	75	D	
02.08/71	49K129	KE	KU	04.25-05.09,1970	S.E.TAIWAN	16 T S					D	
02.26/71	49K121	KO	HMOJMA	02.03-03.13,1970	E.JAPAN	40 T S O P	N3				D	
03.12/71	49K118	RY	MDJMA	01.16-03.02,1970	S.W.NORPAC	83 T S O P	N3 SI					
04.15/71	49K117	KY	SUF	10.25-01.24,1969	S.E.PACIF.	40 T S						PH
02.16/71	24K042	SR	HO	11.21-12.05,1970	S.KOREA	22 T S O						D
02.18/71	90K027	KO		01.23-04.01,1969	W.NORPAC	59 T S O P AL N2						SI PH
02.18/71	90K028	IS		07.24-09.03,1969	N.W.NORPAC	62 T S O P						SI PH
02.18/71	90K029	KO		09.06-09.20,1969	N.W.NORPAC	44 T S O P AL N2						SI PH
02.18/71	90K030	IS		10.19-12.05,1969	N.W.NORPAC	61 T S O P						SI PH
02.18/71	90K031	OR		01.16-03.29,1970	N.W.NORPAC	61 T S O P						SI PH
02.18/71	90K032	OR		04.26-06.25,1970	N.W.NORPAC	60 T S O P						SI PH

* JAPAN
 TA TAKUYO MARU
 KE KEITEN MARU
 KO KOFU MARU
 RY RYOFU MARU
 KY KOYO MARU

KOREA
 SR SURO NO. 3

USSR
 KO AKADEMIK KOROLEV
 IS ISKATEL
 OR ORLICK