

NO. 34

JUL. 1971

CSK NEWSLETTER



JAPAN OCEANOGRAPHIC DATA CENTER

Hydrographic Department, Maritime Safety Agency

Tokyo, Japan

CSK WENGER



JAPAN OCEANOGRAPHIC DATA CENTER
International Oceanographic Data Center
Japan

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I. DESIGNATION OF THE NATIONAL AND ASSISTANT NATIONAL COORDINATOR FOR CSK OF THE PHILIPPINES

The following information of the designation of the National and Assistant National Coordinator for CSK of the Philippines from Dr. Florencio A. Medina, Chairman of the National Science Development Board was received by Dr. Kiyoo Wadati, International Coordinator for CSK.

April 15, 1971

Dr. Kiyoo Wadati
International Coordinator for CSK
Japanese National Commission for UNESCO
2-2, Kasumigaseki 3-Chome, Chiyoda-Ku
Tokyo, Japan

S i r :

This has reference to the participation of the Philippine government in the operation of the Cooperative Study of the Kuroshio (CSK). You are probably aware of the retirement from the government service of Capt. Constance M. Legaspi, former Assistant Director of the Bureau of Coast and Geodetic Survey. With his retirement the position of CSK National Coordinator for the Philippines has remained vacant. I am pleased to inform you that during the last meeting of the National Committee on Marine Sciences (NCMS), the NSDB advisory body on matters concerning marine sciences, the following were designated Officers for the CSK:

MR. MARIO C. MANANSALA - NATIONAL COORDINATOR
Chief Geophysicist
Bureau of Coast & Geodetic Survey

MR. INOCENCIO A. RONQUILLO - ASSISTANT NATIONAL COORDINATOR
Chief, Fishery Biologist
Philippine Fisheries Commission

We also wish to take this opportunity to inform you of the new set of officers of the NCMS who shall serve for a period of two years as follows:

Mr. Francisco A. Comsti - Chairman
Assistant Director
Bureau of Mines

Mr. Inocencio A. Ronquillo - Vice-Chairman

Chief Fishery Biologist
Philippine Fisheries Commission

Dr. Elvira O. Tan - Executive Secretary
Senior Scientist
National Science Development Board

The NCMS acts as the coordinating body on all national activities concerned with marine investigation and has for its members representatives from fourteen agencies of the Philippine government involved in the study of the ocean and related sciences.

We hope the foregoing information will be of use to you in your future dealings with the Philippines concerning the CSK project and marine sciences.

Very truly yours,

(S i g n e d)

FLORENCIO A. MEDINA
Chairman

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II. REPLACEMENT OF THE ASSISTANT NATIONAL COORDINATOR FOR CSK OF JAPAN

Dr. Kiyoshi Tanii resigned from the Assistant National Coordinator for CSK of Japan and Dr. Toshiyuki Hirano, Special Assistant Officer for Director, Research Department, Fisheries Agency, Ministry of Agriculture and Forestry has succeeded him.

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III. CRUISE REPORT

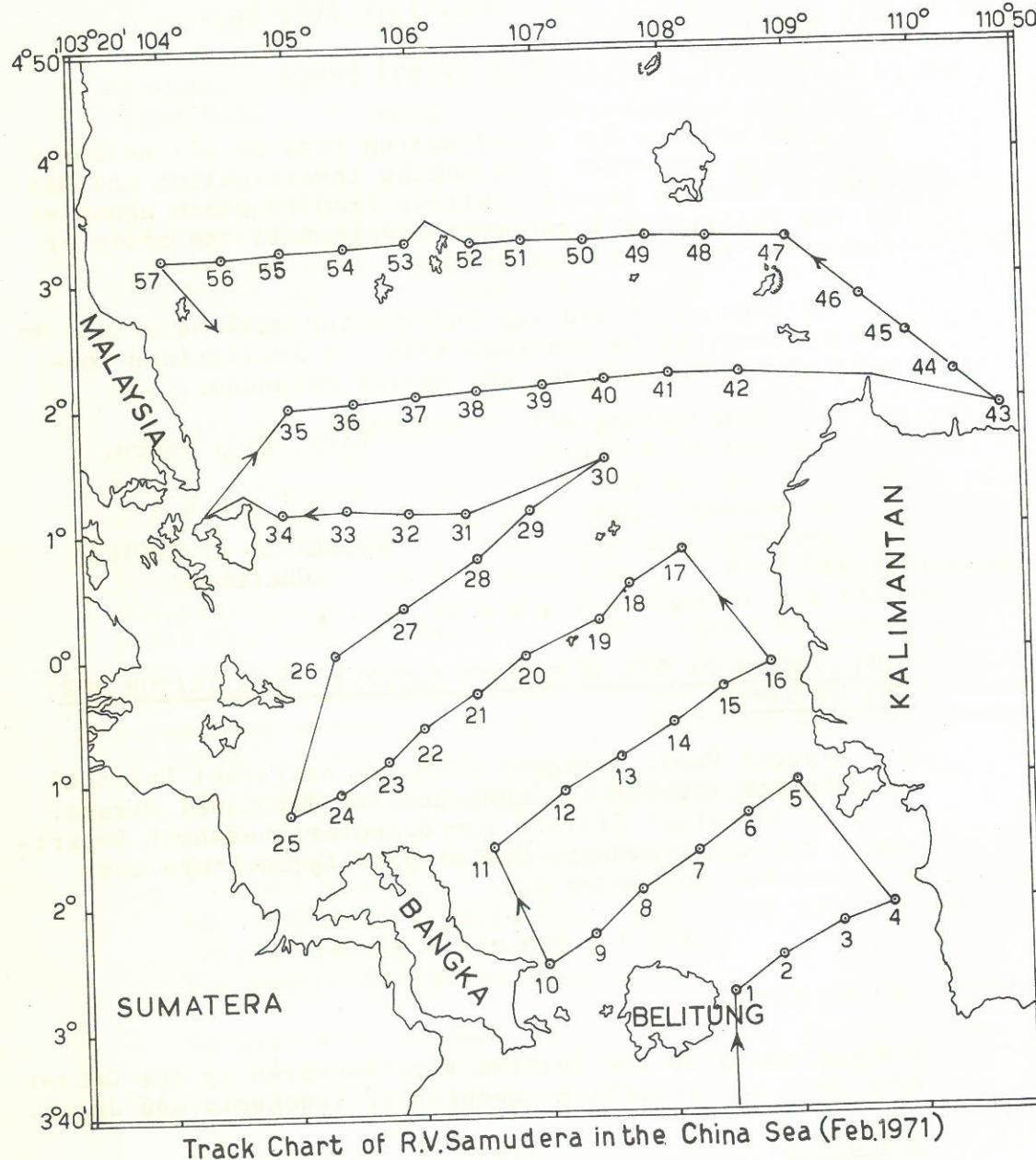
The following cruise reports were received by the Center from each participating agencies of Indonesia and Japan.

1. Indonesia

1.1 R/V Samudera

(1) Operating Agency

Institute of Marine Research, National Institute of Oceanology, Indonesian Institute of Sciences



(2) Personnel

Scientists: A.G. Ilahude (Cruise leader)
Djoko Prawoto, Komar, Mardanis, Sunarjo,
Sudirdjo, Usman, Isak, Suprapto, Suwardi,
Wisnu Gunarso (I.P.B. Student), B. Murdi-
janto (I.P.B. Student), Djamil Achmad
(I.P.B. Student)

(3) Cruise Itinerary

Port	Arrive	Depart
Djakarta		12 Feb. 1971
Tg. Uban	22 Feb. 1971	
Djakarta	3 Mar. 1971	

(4) Region

MSQ Nos. 025, 026, 325 (South China Sea)

(5) Type of Observation

Serial:

No. of Stas. - 57
Data - T, S, O₂, P, NO₃-N
Sampling Depths - 0, 10, 20, 30, 50, 75, 100 m
Max. Sample Depth - 100m

Biological : Zooplankton - 57
Meteorological : Wind, Weather, Air temp.; dry, wet,
Bar., Clouds
Surface : Transp.

(6) Remarks

Oceanographical observations in the South China Sea under the CSK program.

2. Japan

2.1 Kofu Maru

(1) Operating Agency

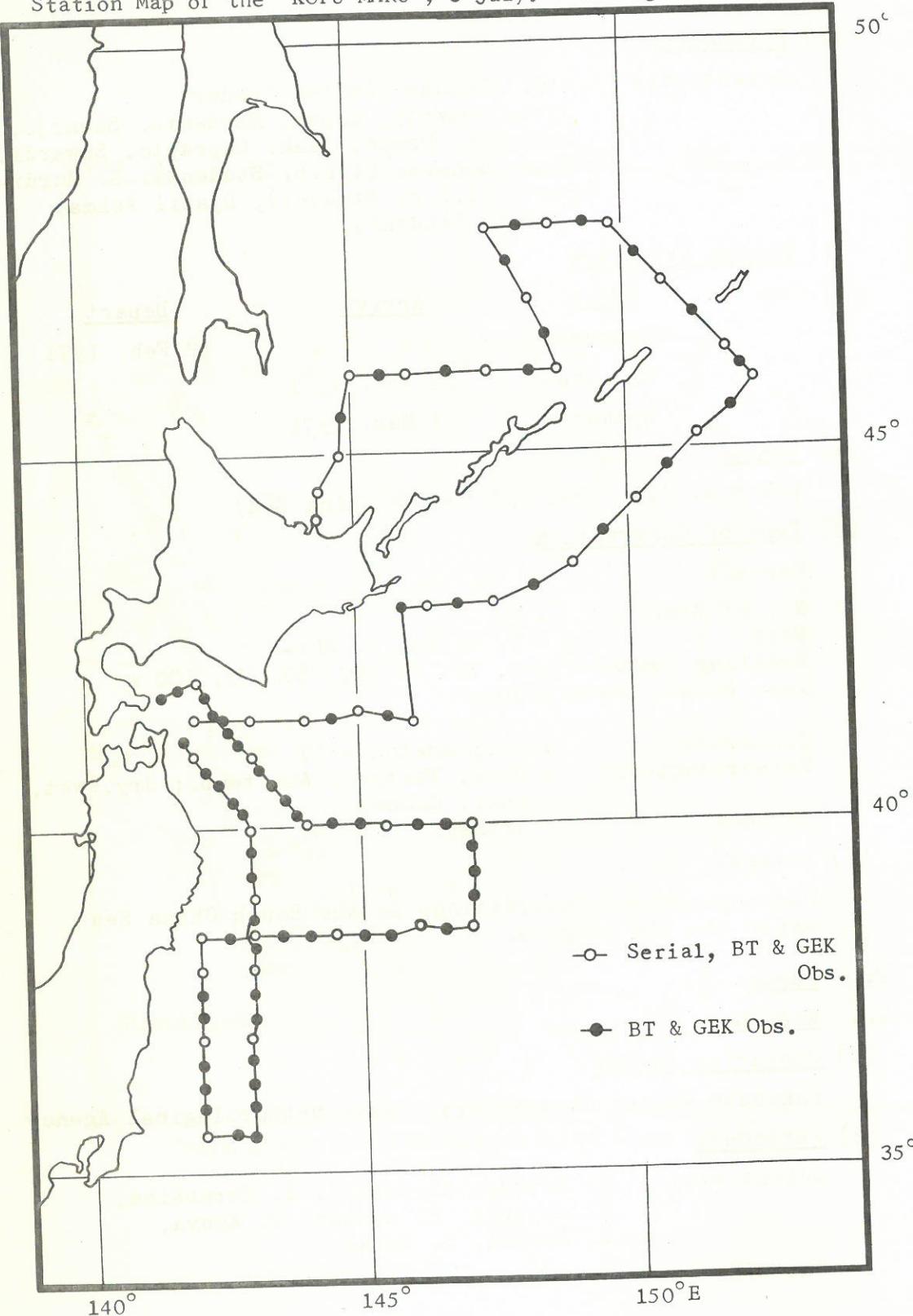
Hakodate Marine Observatory, Japan Meteorological Agency

(2) Personnel

Scientists: S. Hosoda, K. Karoji, I. Terashima,
H. Hayashi, S. Hamano, T. Konya,
K. Komura, S. Wakaki

Captain: C. Naka

Station Map of the "KOFU MARU", 3 July. - 11 August. 1970



Officers and Crew: 25

(3) Cruise Itinerary

<u>Port</u>	<u>Arrive</u>	<u>Depart</u>
Hakodate		3 Jul. 1970
Abashiri	13 Jul. 1970	19 Jul. 1970
Hakodate	21 Jul. 1970	1 Aug. 1970
Onagawa	4 Aug. 1970	7 Aug. 1970
Hakodate	11 Aug. 1970	

(4) Region

MSQ Nos. 130, 166 (E. of Japan)

(5) Type of Observation

Serial:

No. of Stas.	- 42
Data	- T, S, O ₂ , P, Si, NO ₂ -N
Sampling Depths	- 0, 10, 20, 30, 50, 75, 100, 150, 200, 300, 400, 500, 600, 800, 1000, 1200 m.
Max. Sample Depth	- 1693 m.
BTs	: 107
Currents	: 107 with GEK
Biological	: 27 with Norpac net; vertical 150-0 m.
Meteorological	: Wind, Weather, Air temp.; dry, wet, Hum., Bar., Clouds, etc.
Surface	: Waves, Color, Transp.

2.2 R/V Ryofu Maru(1) Operating Agency

Marine Division, Japan Meteorological Agency

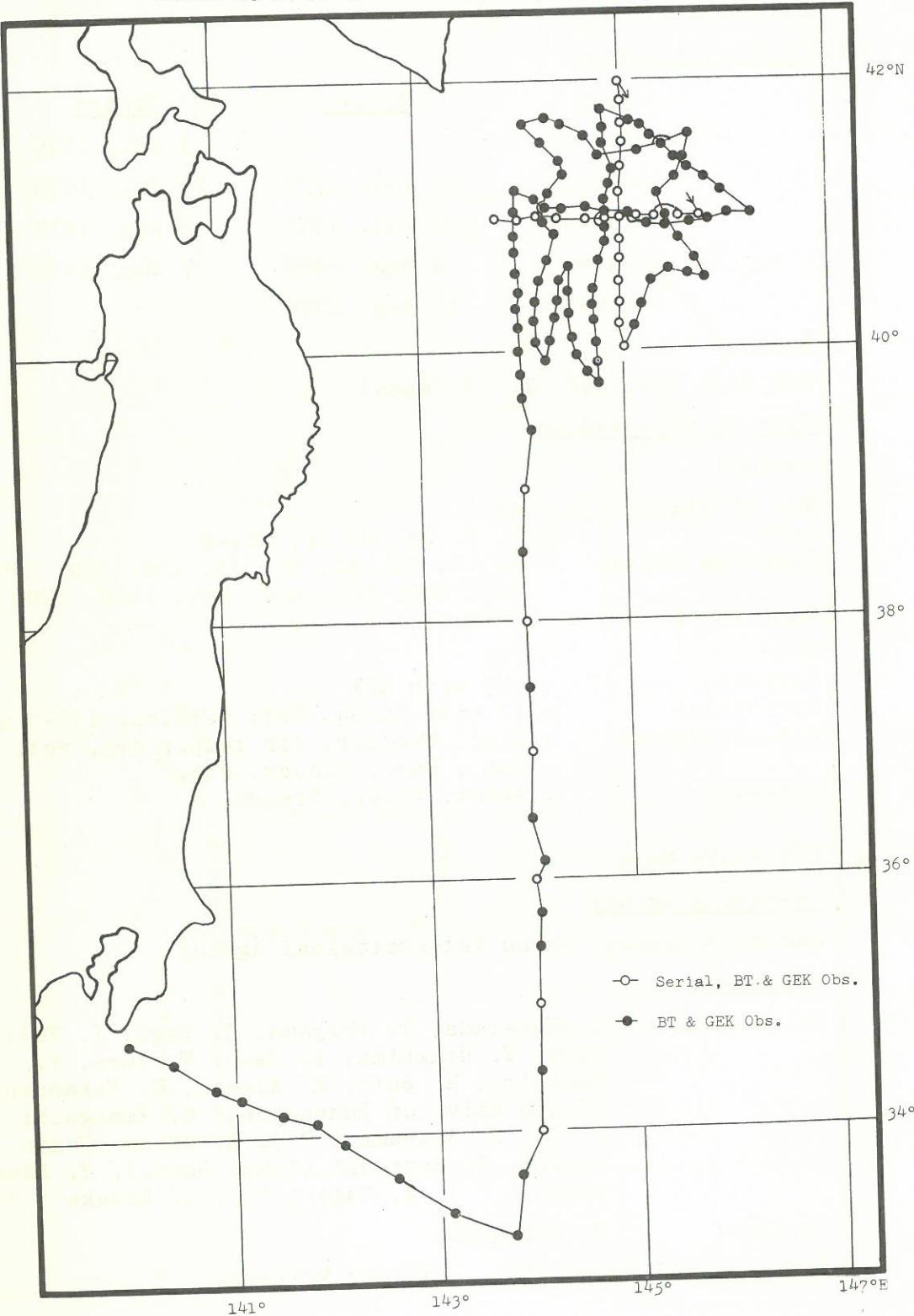
(2) Personnel

Scientists: Y. Kawarada, T. Akiyama, T. Sagi, I. Fujiwara, T. Urashima, A. Sano, T. Yura, E. Kamihira, N. Sato, K. Kimura, M. Takahashi (Tokyo Univ. of Education), M. Yamaguchi ("), S. Akiyama ("), K. Kaiho (Tokyo Univ.), T. Horiuchi (Tokai Univ.), Y. Kawashima ("), M. Yagi ("), T. Kosaka (").

Captain: T. Shirakawa

Officers and Crew: 35 Other Members: 2

Station Map of the "RYOFU MARU", 16 - 30 July, 1970

(3) Cruise Itinerary

<u>Port</u>	<u>Arrive</u>	<u>Depart</u>
Tokyo		16 July 1970
Tokyo	30 July 1970	

(4) Region

MSQ Nos. 130, 166 (E. of Japan)

(5) Type of Observation

Serial:

No. of Stas. - 29
 Data - T, S, O₂, P, NO₃-N, NO₂-N
 Sampling Depths - 0, 10, 20, 30, 50, 75, 100, 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1500 m.

Max. Sample Depth - 1565 m

BTs : 135

Currents : 113 with GEK

Bottom Topography : Echo sounding at each station

Biological : C net - 1, Chlorophyll and phaeopigment-65.

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

Surface : Color, Transp., Waves, T, S

(6) Remarks

This cruise was supported financially by a grant from Science and Technology Agency.

2.3 Chofu Maru(1) Operating Agency

Nagasaki Marine Observatory, Japan Meteorological Agency

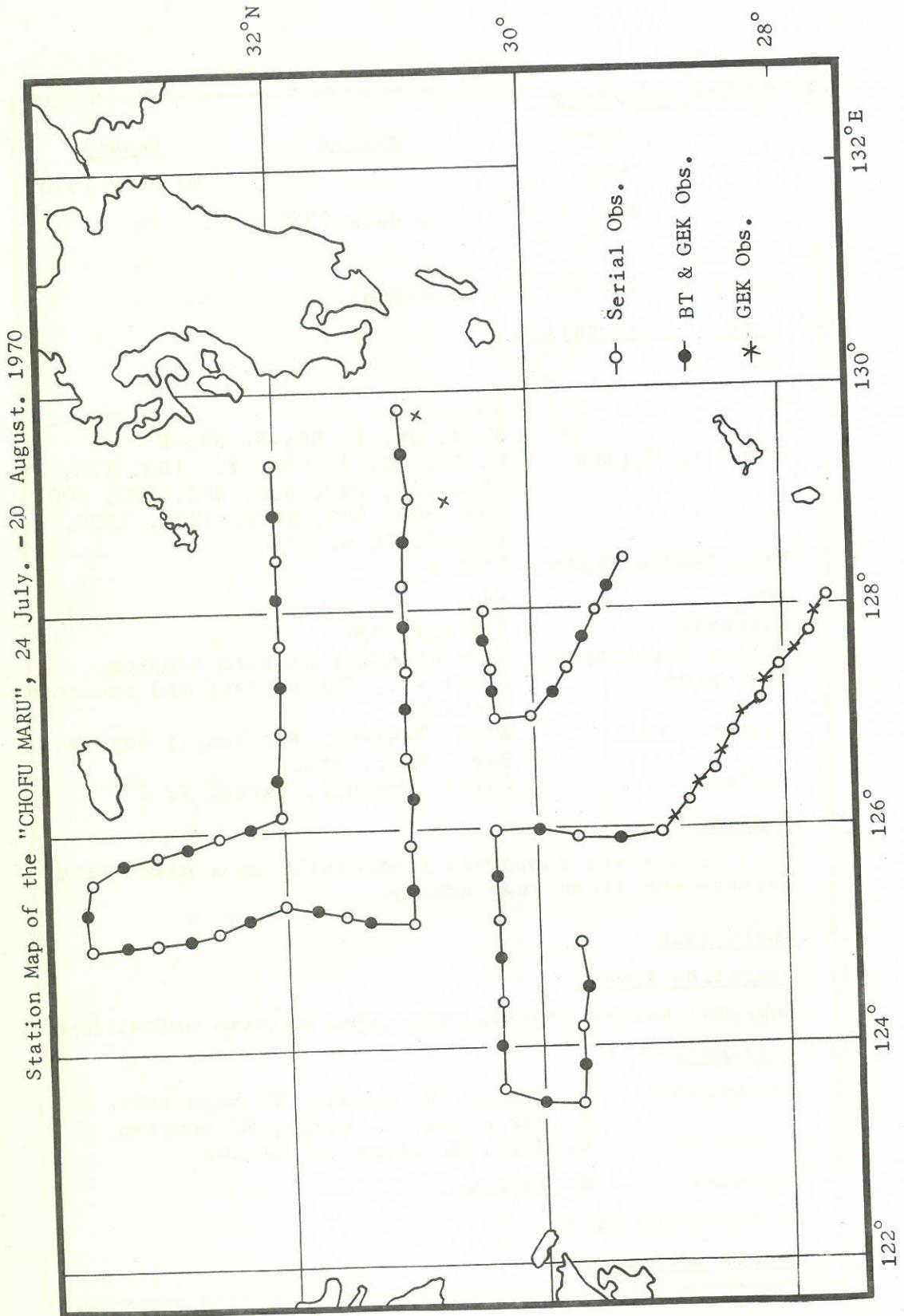
(2) Personnel

Scientists: O. Asaoka, N. Masaki, M. Matsuzaki, K. Yamaguchi, Y. Maeda, Y. Hanzawa, G. Mori, M. Saigo, M. Shiota

Captain: M. Amamiya

Officers and Crew: 22

(3) Cruise Itinerary



<u>Port</u>	<u>Arrive</u>	<u>Depart</u>
Nagasaki		24 July 1970
Yamakawa	29 July 1970	31 July 1970
Naha	2 Aug. 1970	7 Aug. 1970
Taken	11 Aug. 1970	16 Aug. 1970
Naha	17 Aug. 1970	18 Aug. 1970
Nagasaki	20 Aug. 1970	

(4) Region

MSQ Nos. 096, 132 (East China Sea)

(5) Type of Observation

Serial:

No. of Stas. - 43
 Data - T, S, O₂
 Sampling Depths - 0, 10, 20, 30, 50, 75, 100, 150, 200,
 300, 400, 500, 600, 700, 800, 1000 m.
 Max. Sample Depth - 1000 m.

BTs : 75
 Currents : 29 with GEK
 Bottom Topography : Echo sounding at each station
 Biological : Norpac net - 21
 Meteorological : Wind, Weather, Air temp.; dry, wet,
 Bar., Hum., Clouds, Vis.
 Surface : Color, Transp., Sea and swell

2.4 Seifu Maru

(1) Operating Agency

Maizuru Marine Observatory, Japan Meteorological Agency

(2) Personnel

Scientists: K. Furuhashi (Chief), H. Akamatsu,
 K. Tanioka, F. Ogawa, Y. Hashimoto,
 T. Kishii, H. Nishida, M. Morioka,
 C. Sekimoto

Captain: M. Nakamura

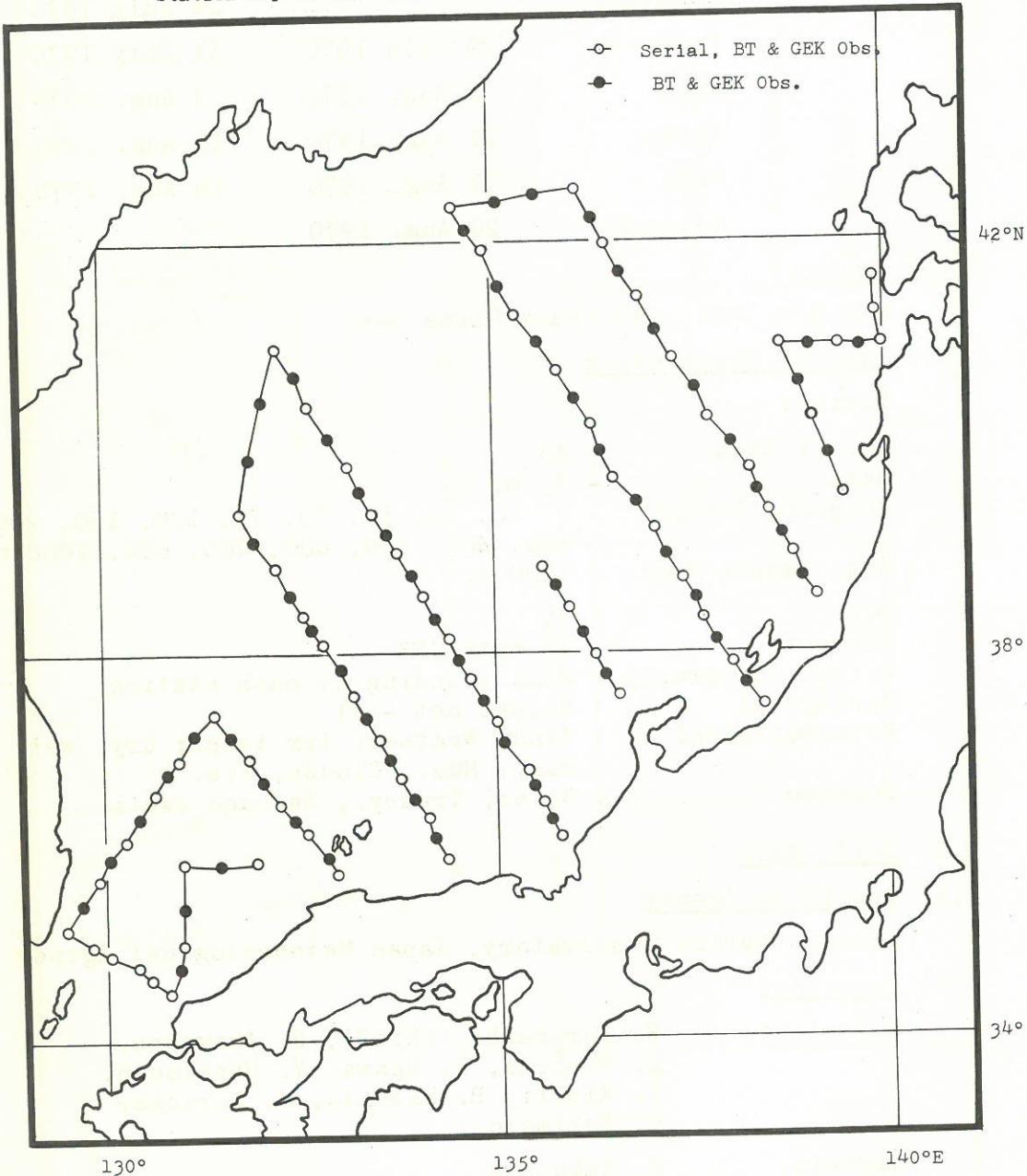
Officers and Crew: 24

Other Members: 8

(3) Cruise Itinerary

<u>Port</u>	<u>Arrive</u>	<u>Depart</u>
Maizuru		27 July 1970

Station Map of the "SEIFU MARU", 27 July - 29 August 1970



Sakaiminato	2 Aug. 1970	4 Aug. 1970
Miyazu	9 Aug. 1970	13 Aug. 1970
Niigata	21 Aug. 1970	24 Aug. 1970
Akita	25 Aug. 1970	26 Aug. 1970
Maizuru	29 Aug. 1970	

(4) Region

MSQ Nos. 131, 132, 167 (Japan Sea)

(5) Type of Observation

Serial:

No. of Stas.	- 70
Data	- T, S, O ₂
Sampling Depths	- 0, 10, 20, 30, 50, 75, 100, 125, 150, 200, 250, 300, 400, 500, 600 m.
Max. Sample Depth	- 2935 m.
BTs	: 183
Currents	: 159 with GEK, Current meter - 1
Bottom Topography	: 183
Biological	: Norpac net - 37
Meteorological	: Wind, Weather, Air temp.; dry, wet, Bar., Clouds, Vis.
Surface	: Color, Transp., Waves

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IV. ABSTRACT OF THE PAPERS ON CSK

(Continued from the previous issue, No. 33, of the CSK Newsletter)

- (65) Kiyotaka Ohtani*: Relative Transport in the Alaskan Stream in Winter. Jour. Oceanogr. Socie. Japan, Vol. 26, No. 5, pp. 271 to 282, Oct., 1970.

Abstract: Between late January and March of 1966, the western Subarctic region was widely investigated by MV Argo and MV G. B. Kelez. That is the first oceanographic measurement in this region during winter season. Oceanographic conditions and relative transports are discussed using these data. The Alaskan Stream which is closely related with the formation of the salmon fishing ground, is continuous as far west as long. 170°E and the westward transport of $8 \times 10^6 \text{m}^3/\text{sec}$ occurs across long. 165°W . That are similar to the conditions in summer. The isolated warm water mass separated from the Alaskan Stream is more clearly defined as a clockwise gyre at the west of Komandorski Ridge.

Transport of approximately $9 \times 10^6 \text{m}^3/\text{sec}$ in the East Kamchatka Current reaches east of the Kurile Islands, where its water, mixing with the Okhotsk Sea water, forms the Oyashio Current having the volume transport of $7 \times 10^6 \text{m}^3/\text{sec}$.

Generally, the circulation pattern in winter is similar to that in summer. Schematic diagram of relative transport and circulation in the Subarctic region in the North Pacific Ocean in winter is proposed.

* Laboratory of Oceanography and Meteorology,
Faculty of Fishers, Hokkaido University.

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V. PUBLICATION RECEIVED

Data of Oceanographic Observations and Exploratory Fishings, No. 5 - Oceanographic Surveys of the Kuroshio and its Adjacent Waters, 1967 and 1968.
Shimonoseki University of Fisheries, Shimonoseki, Japan, Dec., 1970.

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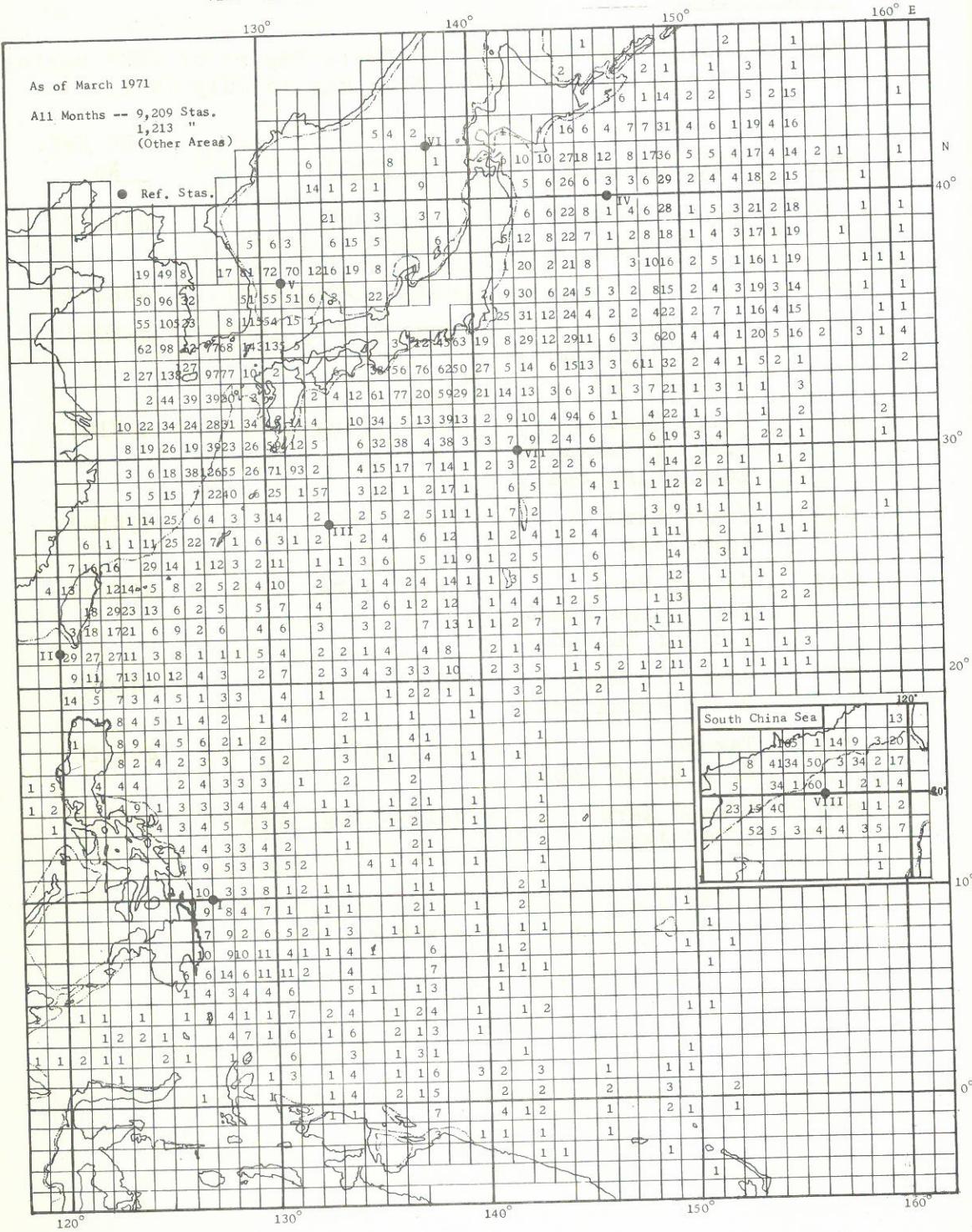
VI. PUBLICATIONS

The following 8 volumes of the "Data Report of CSK" series were published by KDC (JODC) from May to July 1971.

No.	Ship & Area	Period	KDC Ref. No.
146	Tansei Maru E. of Japan	July 1967	49K433
146	"	July - Aug. 1967	49K434
178	Kofu Maru E. of Japan & Okhotsk Sea	June - July 1968	49K084
242	Seifu Maru S.E. of Taiwan & East China Sea	May - June 1969	49K107
243	Tenyo Maru Japan Sea	June 1969	49K108
247	Keiten Maru East China Sea & S.E. of Taiwan	April - May 1969	49K109
275	Cape St. Mary South China Sea	March 1970	74K015
278	Takuyo S. & E. of Japan	July 1970	49K126
279	Shumpu Maru S. of Japan	Jul. - Aug. 1970	49K127

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VII. ONE DEGREE SQUARE DISTRIBUTION OF CSK DATA PROCESSED



VIII. DATA RECEIVED

Catalogue of Data Received by KDC (JODC), 1 May - 31 July 1971

Date Received Mo. Day/Yr.	KDC Ref. No.	*Shipp. Code Agency	Period	Area	No. of Stas.	Serial Data	BTs	Bottom Topography	Biology Sediments
<u>JAPAN</u>									

05.09.71	49K130	TA HDMSA	11.12-12.02.1970	S. JAPAN	25 T S O P	SI PH	82	87	D
05.25.71	49K131	KO HMOJMA	02.03-03.15.1971	E. JAPAN	33 T S O P	SI	87	87	D
06.15.71	49K132	KO HMOJMA	07.03-08.11.1970	E. JAPAN	42 T S O P	N2 N3 SI	107	107	D
06.22.71	49K133	RY MDJMA	07.16-07.30.1970	E. JAPAN	29 T S O P	N2 N3 SI			D
06.22.71	49K134	CH NMOJMA	07.24-08.20.1970	E. CHIN. SEA	43 T S O				D
06.22.71	49K135	SI MMOJMA	07.27-08.29.1970	JAPAN SEA	70 T S O				D
					242*/ 6				459* 440*

INDONESIA 06.09.71 42K004 SA IMR 02.12-03.05.1971 S. CHIN. SEA 57 T S O P N3
57*/ 1

JAPAN
* TA TAKUYO
KO KOFU MARU
RY RYOFU MARU
INDONESIA
SA SAMUDERA