

ACCESSION
NUMBER

79-0045

DDF A: 5:01

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R2651

C100

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

<p>1. NAME AND ADDRESS OF INSTITUTION, AGENCY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>JAPAN OCEANOGRAPHIC DATA CENTER Hydrographic Department Maritime Safety Agency No. 3-1, Tsukiji 5-Chome Chuo-ku, Tokyo 104 JAPAN</p>			
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p>	
<p>4. PLATFORM NAME(S)</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p>	
		<p>PLATFORM</p>	<p>OPERATOR</p>
<p>7. DATES</p> <p>FROM: MO/DAY/YR TO: MO/DAY/YR</p>		<p>8. ARE DATA PROPRIETARY?</p> <p><input type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH</p>	
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?</p> <p>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>		<p>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</p> <p>GENERAL AREA</p>	
<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p>		<p>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</p> <p>GENERAL AREA</p>	

NOAA FORM 24-13

USCOMM-DC 44289-P72

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen Bottles	Inductive Salinometer	N/A (Not applicable)
Dissolved Oxygen	ml/l	"	Winkler method	"

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

Serial Station Data Cruise File
Label : Non-label
Record Type : Fixed Blocked

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Sequence (Major,,,Minor):
Country, Reference No., Consec. No., Master, Detail (Depth)

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☒ COBOL
☐ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER _____
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____	
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____	
7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE ON PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND COME LAY INDICATIONS OF DATA TYPE, VOLUME NUMBER) Tracks: 7/9 File Reel No.: 1 of 1 Job: Creation: 12/19/1978 Data: Serial Station Data Blocking Factor: 90 ch x 40 ^R	
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____		
12. PHYSICAL BLOCK LENGTH 800 bytes		
13. LENGTH OF BYTES IN BITS 8 bytes		

D. RECORD FORMAT DESCRIPTION

RECORD NAME Master Record (Record Type 1)

1

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., 5110, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
COUNTRY #	1	2	Byte	Char(2)	Originator's Nationality
SHIP	3	2	Byte	Char(2)	Ship name code
LATITUDE DEG.	5	2	Byte	Char(2)	Degrees of Latitude
LATITUDE MIN.	7	2	Byte	Char(2)	Minutes of Latitude - 11 overpunch in position 8 for South Lat.
LATMINTN	9	1	Byte	Char(1)	Minutes of Latitude, tenths
LONGITUDE	10	3	Byte	Char(3)	Degrees of Longitude
LONGITUDE MIN.	13	2	Byte	Char(2)	Minutes of Longitude - 11 overpunch in position 14 for East Longitude
LONGMINTN	15	1	Byte	Char(1)	Minutes of Longitude, tenths
MSQ NO.	16	3	Byte	Char(3)	Marsden Square Number
YEAR	19	2	Byte	Char(2)	Year (1900 to present)
MONTH	21	2	Byte	Char(2)	Month of Year (01-12)
DAY	23	2	Byte	Char(2)	Day of Month
TIME	25	3	Byte	Char(3)	Time (GMT to nearest 1/10 Hr.)
CRUISE NO.	28	3	Byte	Char(3)	Originator's cruise or project identification
STATION NO.	31	3	Byte	Char(3)	Originator's station identification
DEPTH BOTTOM	34	4	Byte	Char(4)	Depth to bottom in meters
MAX.SAMPLE DEP	38	2	Byte	Char(2)	Maximum sample depth (Depth to nearest hundred-meter interval)
NO.OBS. DEPTHS	40	2	Byte	Char(2)	Number of observed depths
WATER COLOR	42	2	Byte	Char(2)	Water color (Forel-Ule Scale)
TRANSPARENCY	44	2	Byte	Char(2)	Water transparency (Secchi Disc Meters)
WAVE DIR.	46	2	Byte	Char(2)	Wave direction (WMO code 0885 & 0887)
WAVE H/A	48	1	Byte	Char(1)	Wave height (WMO code 1555) - 11 overpunch in position 48 indicates Sea State WMO code 3700
WAVE PERIOD	49	1	Byte	Char(1)	Wave period (WMO code 3155)
WIND DIR.	50	2	Byte	Char(2)	Wind direction (WMO code 0885 & 0887)
WIND S/F	52	2	Byte	Char(2)	Wind speed (Knots), - 11 overpunch in position 52 indicates Wind Force (Beaufort code)
BAR.	54	3	Byte	Char(3)	Barometric pressure in millibars - tens, units & tenths
AIR DRY	57	3	Byte	Char(3)	Dry bulb temperature in °C - 11 overpunch in position 59 indicates negative temperature
AIR WET	60	3	Byte	Char(3)	Wet bulb temperature in °C - 11 overpunch in position 62 indicates negative temperature
WEATHER	63	2	Byte	Char(2)	Weather (WMO code 4677 & 4501) WMO code 4501 is used when position 63 contains an X. & a digit appears in position 64
COLUD TYPE	65	1	Byte	Char(1)	Cloud type (WMO code 0500)

RECORD FORMAT DESCRIPTION

RECORD NAME Master Record (Cont'd)

2

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (oct, dec, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CLOUD AMOUNT	66	1	Byte	Char(1)	Cloud amount (WMO code 2700)
VISIBILITY	67	1	Byte	Char(1)	Visibility (WMO code 4300)
SP. OBSERVATIONS	68	4	Byte	Char(4)	Special observations - Continuation of originator's station. Identification if overpunch in position 71
JODC PROCES. NO.					
JODC REF.ID.NO.#	72	6	Byte	Char(6)	JODC reference identity number - assigned by JODC
	or 72	4	Byte	Char(4)	"
JODC STA.ID.NO.#	78	2	Byte	Char(2)	JODC station identification number - assigned by JODC
	or 76	4	Byte	Char(4)	"
MASTER RECORD	80	1	Byte	Char(1)	Master record identified by a 1
5 DSQ	81	1	Byte	Char(1)	Five degree Square number
1 DSQ *	82	2	Byte	Char(2)	One degree square number
30 MINSQ *	84	1	Byte	Char(1)	30 minutes square number
15 MINSQ *	85	1	Byte	Char(1)	15 minutes square number
MASTDEPTH * #	86	4	Byte	Char(4)	Master depth identified by 0000
MASTRECSORT * #	90	1	Byte	Char(1)	Master record type for sorting: same as position 80 of Master Record
# --- Cruise Sort Field					
* --- Additional Sort Field					

RECORD FORMAT DESCRIPTION

RECORD NAME Detail Record (Record Type #3)

3

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
	1 - 24	24	Byte	Char(24)	Repeat of first 24 position of Master Record
MES. TIME	25	3	Byte	Char(3)	Messenger time in GMT to nearest 1/10 Hr. or numeral in position 27 only for cast identification instead of messenger time
OBS. DEPTH	28	4	Byte	Char(4)	Depth of sample in meters - 11 overpunch in position 31 for thermometric depth
DEPTH INDICATOR	32	1	Byte	Char(1)	Alphabetic code for precision indicator - N: neglected value in the interpolation - P: doubtful value by originator - Q: doubtful value by JODC
TEMPERATURE	33	5	Byte	Char(5)	Temperature in °C - 11 overpunch in position 33 for negative temperature value - 11 overpunch in position 36 for neglected temperature value - 11 overpunch in position 37 for doubtful value by originator - 12 overpunch in position 37 for doubtful value by JODC
SALINITY	38	5	Byte	Char(5)	Salinity in parts per thousands - 11 overpunch in position 41 for neglected salinity value in the interpolation - 11 overpunch in position 42 for doubtful value by originator - 12 overpunch in position 42 for doubtful value by JODC
SIGMA-T	43	4	Byte	Char(4)	Sigma-t (for output MT)
	47	4	Byte	Char(4)	Sound velocity (not used at JODC)
OXYGEN	51	3	Byte	Char(3)	Oxygen in milliliter per liter - 11 overpunch in position 51 indicates oxygen greater than 9.99 - 11 overpunch in position 52 for neglected oxygen value in the interpolation - 11 overpunch in position 53 for doubtful value by originator - 12 overpunch in position 53 for doubtful value by JODC
PHOSPHATE	54	3	Byte	Char(3)	Inorganic phosphate in microgram-atoms per liter - 11 overpunch in position 56 for doubtful by originator - 12 overpunch in position 56

RECORD FORMAT DESCRIPTION

RECORD NAME Detail Record (Cont'd)

4

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
TOTAL PHOSPHORUS	57	3	Byte	Char(3)	for doubtful value by JODC Total phosphorus in microgram-atoms per liter - 11 overpunch in position 59 for doubtful value by originator - 12 overpunch in position 59 for doubtful value by JODC
NITRITE	60	3	Byte	Char(3)	Nitrites in microgram-atoms per liter - 11 overpunch in position 62 for doubtful by originator - 12 overpunch in position 62 for doubtful value by JODC
NITRATE	63	3	Byte	Char(3)	Nitrates in microgram-atoms per liter - 11 overpunch in position 65 for doubtful value by originator - 12 overpunch in position 65 for doubtful value by JODC
SILICATE	66	3	Byte	Char(3)	Silicates in microgram-atoms per liter - 11 overpunch in position 68 for doubtful value by originator - 12 overpunch in position 68 for doubtful value by JODC
PH	69	3	Byte	Char(3)	pH - 11 overpunch in position 71 for doubtful value by originator - 12 overpunch in position 71 for doubtful value by JODC
JODC PROCES. NO.:					
JODC REF. ID. NO.	72	6	Byte	Char(6)	Repeat the values of position
or	72	4	Byte	Char(4)	72-77(or 72-75) from Master Record
JODC STA. ID. NO.	78	2	Byte	Char(2)	Repeat the values of position
or	76	4	Byte	Char(4)	78-79(or 76-79) from Master Record
MASTER RECORD	80	1	Byte	Char(1)	Detail Record - Observed code 3
5 DSQ	81	1	Byte	Char(1)	Five degree square number
1 DSQ	82	2	Byte	Char(2)	One degree square number
30 MINSQ	84	1	Byte	Char(1)	30 minutes square number
15 MINSQ	85	1	Byte	Char(1)	15 minutes square number
DETAILDEPTH #	86	4	Byte	Char(4)	Observed depth
DETAILRECSORT #	90	1	Byte	Char(1)	Detail record (Observed) type for sorting: Record Type 6

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G. Cruise Inventory

CATALOG OF OBSERVATION (KAKUSO)																			PAGE	1
SEQ	MT	REF-NO	SHIP	NUM	DATE	LAT	LONG	MAX-DEP	500	1500	OVER	T	S	O	P	TP	N2	N3	SI	PH
1	01	24K051	SR ✓	19	74/09/02-74/09/04	34N-35N	128E-129E	200	19	0	0	10	10	10	-	-	-	-	-	10
2	01	24K052	SR ✓	20	75/06/08-75/06/10	34N-35N	128E-129E	223	20	0	0	10	10	10	-	-	-	-	-	10
3	01	490714	UT ✓	28	57/10/29-57/12/04	29N-34N	142E-170E	1438	0	28	0	10	10	10	9	-	-	-	10	10
4	01	490717	KO ✓	32	61/05/30-61/06/10	57N-62N	179W-170W	120	32	0	0	10	-	-	-	-	-	-	-	-
5	01	490718	KO ✓	23	62/06/23-62/07/02	56N-62N	179W-168W	100	23	0	0	10	-	-	-	-	-	-	-	-
6	01	490719	KO ✓	20	63/06/27-63/07/06	55N-59N	178W-165W	125	20	0	0	10	-	-	-	-	-	-	-	-
7	01	490720	KO ✓	15	64/06/27-64/07/08	55N-59N	168E-169W	3000	14	0	1	10	10	-	-	-	-	-	-	-
8	01	490722	KG ✓	25	58/04/07-58/04/18	02S-09N	150E-153E	1168	0	25	0	10	10	10	-	-	-	-	-	-
9	01	490723	UT ✓	12	58/07/30-58/08/14	20N-29N	125E-135E	5115	1	5	6	10	8	10	-	-	-	-	-	10
10	01	490724	UT ✓	14	58/11/06-58/11/14	00N-32N	134E-136E	4456	0	7	7	10	10	9	9	-	-	-	9	9
11	01	49683503	HK ✓	6	68/07/19-68/08/07	37N-44N	143E-171E	5684	0	0	6	10	10	10	-	-	-	-	-	10
12	01	49703801	TO ✓	20	70/01/29-70/02/01	34N-35N	138E-138E	1926	10	8	2	10	10	10	10	-	-	-	10	9
13	01	49710020	FU ✓	18	71/12/17-72/04/06	66S-35S	022E-112E	3563	1	3	14	10	10	3	3	-	3	3	3	3
14	01	49711114	RY ✓	36	71/10/10-71/10/28	42N-51N	144E-160E	4972	2	20	14	10	10	10	10	1	4	4	-	-
15	01	49720020	TA ✓	51	72/09/07-72/10/03	32N-41N	141E-146E	1766	3	41	7	10	10	1	-	-	-	-	-	-
16	01	49730020	FJ ✓	23	73/12/17-74/03/06	68S-33S	001E-111E	4344	2	3	18	10	10	10	10	10	10	10	10	10
17	01	49740020	FJ ✓	10	74/12/17-75/03/02	67S-34S	002E-001W	3871	1	0	9	10	10	10	10	-	10	10	10	10
18	01	4976A001	AC ✓	8	76/05/15-76/05/19	34N-36N	141E-147E	4004	1	1	6	10	10	-	-	-	-	-	-	-
19	01	4976A002	AC ✓	29	76/06/08-76/06/18	35N-41N	142E-150E	4112	1	9	19	10	10	-	-	-	-	-	-	-
20	01	4976A003	AC ✓	1	76/07/04-76/07/04	31N-31N	133E-133E	3875	0	0	1	10	10	-	-	-	-	-	-	-
21	01	4976A004	AC ✓	29	76/07/15-76/07/26	31N-43N	143E-151E	4002	0	0	29	10	10	-	-	-	-	-	-	-
22	01	4976A005	AC ✓	1	76/10/06-76/10/06	32N-32N	140E-140E	1381	0	1	0	10	10	-	-	-	-	-	-	-
23	01	4976A006	AC ✓	9	76/10/20-76/10/27	26N-32N	137E-144E	4165	0	0	9	10	10	-	-	-	-	-	-	-
24	01	4976A007	AC ✓	1	76/11/07-76/11/07	31N-31N	133E-133E	3987	0	0	1	10	10	-	-	-	-	-	-	-
25	01	4976A008	G1 ✓	11	76/06/19-76/06/25	43N-44N	138E-140E	747	8	3	0	10	10	-	-	-	-	-	-	-
26	01	4976A009	G1 ✓	2	76/08/19-76/08/19	41N-41N	139E-139E	295	2	0	0	10	10	-	-	-	-	-	-	-
27	01	4976A010	G2 ✓	3	76/05/24-76/05/25	29N-30N	128E-129E	314	3	0	0	10	10	-	-	-	-	-	-	-
28	01	4976A011	G2 ✓	5	76/07/14-76/07/15	29N-30N	128E-129E	426	5	0	0	10	8	-	-	-	-	-	-	-

CATALOG OF OBSERVATION (KAKUSO)																			PAGE	2
SEQ	MT	REF-NO	SHIP	NUM	DATE	LAT	LONG	MAX-DEP	500	1500	OVER	T	S	O	P	TP	N2	N3	SI	PH
29	01	49772901	IY	109	77/12/10-78/02/13	54S-44N	168E-177W	1980	55	51	3	10	10	10	-	-	-	-	-	-
30	01	4977A001	AC✓	2	77/01/19-77/01/20	34N-36N	140E-142E	2903	0	0	2	10	10	-	-	-	-	-	-	-
31	01	4977A002	AC✓	12	77/04/19-77/04/25	29N-32N	142E-152E	3991	0	0	12	10	10	-	-	-	-	-	-	-
32	01	4977A003	AC✓	15	77/06/09-77/06/19	23N-28N	142E-152E	3840	1	0	14	10	10	-	-	-	-	-	-	-
33	01	4977A004	AC✓	14	77/07/12-77/07/17	30N-31N	127E-128E	471	14	0	0	10	10	-	-	-	-	-	-	-
34	01	4977A005	AC✓	4	77/09/07-77/09/14	34N-41N	136E-143E	897	0	4	0	10	10	-	-	-	-	-	-	-
35	01	4977A006	G2✓	3	77/04/21-77/04/22	28N-30N	127E-130E	466	3	0	0	10	10	-	-	-	-	-	-	-
36	01	4977A007	G2✓	5	77/07/12-77/07/15	28N-30N	127E-129E	693	3	2	0	10	10	-	-	-	-	-	-	-
37	01	4977A008	G2✓	2	77/11/07-77/11/08	30N-30N	128E-129E	502	1	1	0	10	10	-	-	-	-	-	-	-
38	01	4977A009	G3✓	7	77/06/21-77/06/26	31N-32N	132E-135E	586	3	4	0	10	10	-	-	-	-	-	-	-
39	01	4977A010	G3✓	9	77/08/03-77/08/07	31N-32N	132E-135E	800	1	8	0	10	10	-	-	-	-	-	-	-
40	01	4977A011	G3✓	4	77/10/15-77/10/16	31N-32N	132E-133E	771	0	4	0	10	10	-	-	-	-	-	-	-
41	01	4977A012	G4✓	7	77/06/06-77/06/07	35N-36N	131E-133E	770	5	2	0	10	10	-	-	-	-	-	-	-
42	01	4977A013	G4✓	3	77/06/28-77/06/29	38N-38N	138E-138E	116	3	0	0	10	10	-	-	-	-	-	-	-
43	01	4977A014	G4✓	7	77/08/01-77/08/03	36N-38N	134E-136E	640	5	2	0	10	10	-	-	-	-	-	-	-
44	01	4977A015	G4✓	14	77/10/25-77/10/27	36N-38N	134E-136E	847	7	7	0	10	10	-	-	-	-	-	-	-
45	01	49 402	OS✓	43	57/08/26-58/06/27	43N-62N	152E-175W	1536	9	33	1	10	10	10	10	-	-	-	5	7
46	01	49 538	SO✓	44	58/07/28-58/09/11	29N-51N	143E-174W	4000	9	33	2	10	10	5	5	-	-	-	5	7
47	01	49K183	RY✓	76	74/06/07-74/62/21	01S-35N	129E-141E	4572	0	43	33	10	10	10	9	3	1	3	-	2
48	01	49K184	CH✓	43	74/07/20-74/08/14	25N-32N	123E-129E	900	36	7	0	10	10	10	4	1	1	1	-	1
49	01	49K187	KF✓	37	74/01/21-74/01/27	31N-34N	134E-137E	2033	23	7	7	10	10	10	10	3	10	4	0	1
50	01	49K189	KA✓	22	74/08/13-74/08/30	30N-34N	135E-140E	1796	3	6	13	10	10	10	10	-	-	-	10	9
51	01	49K190	SI✓	70	74/07/16-74/08/13	35N-41N	129E-139E	2657	12	56	2	10	10	10	5	0	0	0	-	0
52	01	49K191	YS✓	88	73/10/03-74/01/04	17S-26N	141E-151E	1010	5	83	0	10	9	10	10	-	-	-	10	-
53	01	49K192	KO✓	33	74/07/05-74/07/18	41N-47N	142E-154E	1441	0	33	0	10	10	10	10	1	1	1	-	1
54	01	49K194	SH✓	49	74/07/12-74/07/27	30N-34N	134E-137E	1603	35	11	3	10	10	10	8	3	8	3	-	1
55	01	49K195	RY✓	51	75/01/14-75/01/30	00N-35N	136E-141E	1418	1	50	0	10	10	10	8	2	2	2	-	2
56	01	49K196	SI✓	51	75/02/04-75/03/13	34N-41N	129E-139E	2000	11	88	2	10	10	10	3	1	1	-	-	1

CATALOG OF OBSERVATION (KAKUSO)																			PAGE	3
SEQ	MT	REF-NO	SHIP	NUM	DATE	LAT	LONG	MAX-DEP	500	1500	OVER	T	S	O	P	TP	N2	N3	SI	PH
57	01	49K197	TA✓	31	75/03/07-75/03/23	31N-35N	135E-140E	1803	2	19	10	10	10	10	8	-	-	-	8	8
58	01	49K198	OS✓	24	71/11/27-71/12/17	02N-05N	092E-111E	1400	15	9	0	10	10	-	-	-	-	-	-	-
59	01	49K199	OS✓	29	73/11/12-73/12/05	02N-08N	092E-111E	1327	26	3	0	10	10	-	-	-	-	-	-	-
60	01	49K200	CH✓	43	75/07/12-75/08/11	26N-33N	124E-129E	947	37	6	0	10	10	10	2	1	1	1	-	1
61	01	49K201	KO✓	26	75/02/05-75/03/01	35N-42N	141E-147E	1346	1	25	0	10	10	10	10	1	1	1	-	1
62	01	49K202	YS✓	57	74/10/04-74/11/24	03S-29N	140E-150E	1058	1	56	0	10	2	10	10	-	-	-	10	-
63	01	49K203	SH✓	65	75/02/01-75/02/26	30N-34N	134E-137E	1770	50	9	6	10	10	10	10	6	10	6	1	4
64	01	49K204	SI✓	86	75/07/06-75/08/06	34N-41N	129E-139E	2492	31	53	2	10	10	8	4	0	0	0	-	0
65	01	49K205	RY✓	107	75/06/10-75/08/05	11S-34N	136E-155E	5451	1	90	16	10	10	10	8	2	2	2	-	2
66	01	49K206	TA✓	22	74/03/13-74/03/21	31N-34N	135E-140E	1690	3	8	11	10	10	10	10	-	-	-	10	-
67	01	49K207	TA✓	24	75/05/08-75/05/19	31N-34N	135E-140E	1810	2	12	10	10	10	10	10	-	-	-	10	10
68	01	49K208	KAV✓	31	75/08/20-75/09/02	30N-34N	135E-139E	2699	0	9	22	10	10	10	8	-	-	-	8	10
69	01	49K209	RY✓	65	76/01/15-76/02/13	01S-34N	124E-141E	1491	8	57	0	10	10	10	9	2	2	2	-	2
70	01	49K210	CH✓	23	76/02/09-76/02/19	28N-32N	124E-129E	550	20	3	0	10	10	10	-	-	-	-	-	-
71	01	49K211	SH✓	65	75/07/03-75/08/03	27N-34N	128E-137E	1717	45	16	4	10	10	10	10	7	5	3	-	-
72	01	49K212	SI✓	48	76/02/06-76/03/03	34N-41N	129E-139E	2749	14	31	3	10	10	10	4	1	1	1	-	1
73	01	49K213	TA✓	44	74/10/28-74/11/20	29N-34N	122E-130E	736	39	5	0	10	10	10	10	-	-	-	10	10
74	01	49K214	HK?	22	72/05/13-72/07/27	11S-25N	106E-132E	4645	2	5	15	10	10	10	10	-	10	10	10	-
75	01	49K215	SH✓	13	76/02/02-76/02/03	30N-34N	135E-135E	1554	6	5	2	10	10	10	9	2	10	2	-	6
76	01	49K216	CH✓	46	76/07/10-76/08/03	25N-32N	123E-129E	898	39	7	0	10	10	10	2	1	4	1	-	1
77	01	49K217	TA✓	56	75/10/18-76/10/20	27N-33N	123E-137E	1482	39	17	0	10	10	7	7	-	-	-	7	7
78	01	49K218	YY✓	18	76/03/18-76/03/23	30N-33N	135E-139E	2480	1	1	16	10	10	10	10	-	-	-	9	10
79	01	49K219	TA✓	41	76/05/19-76/06/02	29N-34N	136E-139E	4083	0	12	29	10	10	10	10	-	-	-	10	10
80	01	49K220	KA✓	23	76/08/10-76/08/23	29N-34N	134E-140E	2763	0	8	15	10	10	10	10	-	-	-	8	6
81	01	49K221	SI✓	50	76/07/09-76/08/07	35N-41N	129E-139E	2935	7	40	3	10	10	10	4	1	4	3	-	1
82	01	49K222	YY✓	27	76/11/13-76/11/25	27N-34N	133E-138E	4455	0	2	25	10	10	10	10	-	-	-	8	10
83	01	49K223	RY✓	106	76/06/12-76/08/05	11S-34N	136E-155E	4152	5	85	16	10	10	10	8	1	2	2	-	2
84	01	49K224	RY✓	62	77/01/14-77/02/16	01S-37N	131E-144E	3962	0	41	21	10	10	10	9	-	3	2	-	2

CATALOG OF OBSERVATION (KAKUSO)																		PAGE		4
SEQ	MT	REF-NO	SHIP	NUM	DATE	LAT	LONG	MAX-DEP	500	1500	OVER	T	S	O	P	TP	N2	N3	SI	PH
85	01	49K225	CH✓	55	77/01/21-77/02/19	25N-31N	124E-129E	1045	41	14	0	10	10	10	2	1	1	1	-	1
86	01	49K226	SI✓	32	77/02/06-77/03/13	35N-40N	130E-139E	2979	6	24	2	10	10	10	3	1	2	1	-	1
87	01	49K227	SH✓	30	76/07/02-76/07/23	29N-34N	131E-139E	1774	7	7	16	10	9	10	9	1	9	1	-	5
88	01	49K228	KO✓	31	76/08/04-76/08/26	34N-41N	141E-147E	1373	2	29	0	10	10	10	10	-	-	-	-	-
89	01	49K229	YY✓	24	77/03/09-77/03/20	28N-34N	134E-141E	4126	0	5	19	10	10	10	10	-	-	-	9	10
90	01	49K230	CH✓	38	75/01/28-75/02/24	25N-32N	122E-129E	1074	30	8	0	10	10	10	1	1	1	1	-	1
91	01	49K231	RY✓	107	77/06/04-77/07/28	11S-34N	136E-155E	4918	2	86	19	10	10	10	8	0	2	1	-	2
92	01	49K233	SH✓	30	77/01/29-77/02/18	28N-34N	133E-139E	1894	7	15	8	10	10	10	9	1	9	1	-	5
93	01	49K234	KO✓	23	77/02/08-77/03/01	35N-42N	141E-147E	1197	1	22	0	10	10	10	10	1	1	1	-	3
94	01	49K236	TA✓	30	77/05/10-77/05/25	28N-34N	133E-141E	4393	0	5	25	10	10	10	10	-	-	-	10	6
95	01	49K239	KO✓	34	77/07/20-77/08/11	33N-41N	140E-147E	2302	1	29	4	10	10	10	10	1	1	1	-	2
96	01	49K240	KO✓	64	75/07/03-75/08/20	34N-47N	142E-153E	1312	3	61	0	10	10	10	10	0	1	0	-	0
97	01	49K241	OS✓	19	75/11/10-75/12/02	11S-05N	103E-109E	980	9	10	0	10	10	10	-	-	-	-	-	-
98	01	49K242	KO✓	23	76/02/10-76/03/05	34N-41N	141E-147E	1335	3	20	0	10	10	10	10	1	1	1	-	1
99	01	90K037	OR✓	99	72/04/13-72/06/10	20N-43N	138E-149E	1275	5	94	0	10	10	6	5	-	5	-	5	6
100	01	90K038	VO✓	43	72/01/16-72/02/11	29N-40N	139E-159E	5506	10	17	16	10	10	9	6	6	6	-	6	9
101	01	⁹⁰⁰³⁴⁶ 90K040	SH✓	52	72/07/12-72/07/21	30N-42N	140E-145E	5633	2	46	4	10	10	10	1	1	1	-	1	1
102	01	90K041	PI✓	160	71/12/06-72/02/01	30N-43N	139E-165E	5634	2	49	109	10	10	10	1	1	1	-	1	10
103	01	90K042	OR✓	108	72/07/20-72/09/09	20N-43N	130E-149E	1238	10	98	0	10	10	6	6	-	6	-	6	6
104	01	90K043	PI✓	74	71/06/08-71/09/10	08N-33N	129E-135E	5286	9	39	26	10	10	9	5	5	5	-	5	9
105	01	90K044	PR	91	71/09/17-71/10/18	07N-32N	129E-135E	5398	4	49	38	10	10	9	5	5	5	-	5	9
106	01	90K045	SH✓	161	72/01/30-72/04/23	40S-40N	179E-179W	2694	6	78	77	10	10	10	2	2	2	-	2	10
107	01	90K046	VO✓	22	72/09/22-72/09/30	30N-41N	144E-145E	2000	1	8	13	10	10	5	5	5	5	-	5	5
108	01	90K047	OK✓	60	73/02/08-73/03/28	12N-33N	129E-135E	1812	1	26	33	10	10	10	6	6	6	-	6	6
109	01	90K048	PR✓	53	72/09/03-72/10/14	01S-33N	129E-135E	2274	2	15	36	10	10	10	-	-	-	-	-	-
110	01	⁹⁰⁰⁴²⁰ 90K049	VL✓	39	73/12/07-73/12/12	30N-42N	144E-145E	5164	0	1	38	10	10	10	-	-	-	-	-	3
111	01	90K050	PL✓	45	74/05/23-74/06/09	30N-43N	138E-149E	1201	7	38	0	10	10	6	6	-	6	-	6	6
112	01	⁹⁰¹³³⁹ 90K051	TA✓	100	73/07/05-73/09/05	23N-43N	138E-149E	1298	6	94	0	10	10	6	6	-	5	0	5	5

CATALOG OF OBSERVATION (KAKUSO)

PAGE 5

SEQ	MT	REF-NO	SHIP	NUM	DATE	LAT	LONG	MAX-DEP	500	1500	OVER	T	S	O	P	TP	N2	N3	SI	PH
113	01	90K052 ⁹⁰¹³⁴⁰	PI✓	36	75/06/22-75/06/29	20N-42N	144E-145E	2541	0	2	34	10	10	10	-	-	-	-	-	-
114	01	90K053	SE✓	103	75/04/16-75/05/29 ⁵	20N-43N	138E-149E	1205	5	98	0	10	10	6	6	-	4	-	-	-
115	01	90K054	SE✓	123	75/07/09-75/08/29	21N-43N	138E-149E	1485	6	117	0	10	10	5	5	-	5	-	5	5
116	01	90K055 ⁹⁰⁰⁵¹⁵	PR✓	23	75/06/03-75/06/07	29N-41N	147E-147E	2259	0	0	23	10	10	5	5	-	-	-	-	-
117	01	90K056 ⁹⁰⁰⁵²⁹	PL✓	182	76/04/20-76/06/29	20N-43N	124E-149E	1450	52	130	0	10	10	6	7	0	-	-	7	-

MT-NO 01 NUMBER OF OBSERVATION 4663

E. JODC SHIP CODE & INSTITUTION CODE1. JODC OLD SHIP CODES (Obs. Year; 1923-1964)

<u>CODE</u>	<u>SHIP NAME</u>	<u>INSTITUTION CODE</u>
A1	Asahi Maru No. 1	23
A2	Tama Maru No. 2	00
A3	Tama Maru No. 3	00
A5	Tama Maru No. 5	00
A6	Tama Maru No. 6	00
A7	Tama Maru No. 7	00
AA	Takao Maru	
AB	Abukuma	01
AC	Asakaze	08
AD	Asachidori	02
AE	Akebono Maru	14
AF	Amakusa	07
AG	Asanagi Maru	15
AI	Akita Maru	88
AJ	Awaji	05
AK	Asakaze Maru	14
AM	Itsukushima	00
AN	Tanyo Maru	
AO	Aomori Maru	55
AP	Apoi Maru	22
AR	Aotaka Maru	
AS	Asashio Maru	11
AT	Atsumi	11
AU	Kuma	02
AV	Hayasui Maru	71
AW	Awa Maru	69
AY	Sanyo Maru	00
AZ	Azuma	62
BA	Banshu Maru No.83	00
BK	Kotobuki Maru No.10	57
BU	Bunpuku Maru	57
C3	Choyo Maru No.13	00
C5	Choyo Maru No.15	00
CA	Chiaki Maru	88
CG	Kagoshima Maru	45
CH	Chishio Maru	60
CI	Tachibana Maru	72
CR	Ikuru Maru	
DA	Daikoku Maru No. 3	14
DE	Hidehiko Maru	77
DF	Daifuji Maru	65
DG	Tokaidaigaku Maru	38
DI	Daito Maru	23
DO	Daio	05
DS	Daisen Maru	80

E1	Tenkai Maru No. 1	00
EA	Taikei Maru No.11	57
EE	Seisho Maru No. 1	57
EG	Shigu Maru	
EI	Eisho Maru	00
EK	Keiten Maru	45
EN	Enoshima Maru	64
EO	Seiyo Maru	
ES	Shichisei Maru	
ET	Tenyo	00
EU	Settsu Maru	81
EY	Miyake	02
FH	Chifuri	02
FU	Fusakaze Maru	60
GA	Kagami	76
GB	Sagami	02
GE	Geiyo Maru	00
GG	Sasagake Maru	78
GI	Amagi Maru	65
GM	Genkai	03
GN	Genkai Maru	77
GS	Asagiri Maru	89
HA	Hatsutaka Maru	14
HB	Heiwaibaragi Maru	23
HC	Haruzuki	09
HD	Hoyo Maru	00
HE	Heiyo	00
HF	Hakuyo	57
HG	Fugen Maru	11
HH	Hakuho Maru	
HI	Hisho Maru	00
HK	Hakuyo Maru	00
HM	Fukumiya Maru	
HN	Heian Maru	82
HO	Hokusei Maru	32
HR	Hirota Maru	56
HS	Fusa Maru	60
HT	Hachiko Maru	
HU	Fuji Maru	65
HV	Hokuho Maru	
HW	Hachijo	05
HY	Hyuga Maru	72
HZ	Fuji	01
I2	Chiba Maru No. 2	60
I5	Aisei Maru No. 5	57
IA	Kitakami Maru	56
IB	Ibaragi Maru	59
IC	Isishio	00
ID	Iki	10
IE	Hamaei Maru	11
IG	Shiga Maru	11
IH	Fukui Maru	83

II	Shichito Maru	
IK	Ishikari	01
IM	Kitakami	07
IN	Kamitaka Maru	00
IO	Koyoshi Maru No. 2	00
IR	Kurokami Maru	00
IS	Isogo	00
IT	Iwate Maru	56
IU	Ikuna Maru	11
IW	Iwaki Maru	58
IY	Itsuki Maru	91
IZ	Ashizuri Maru	70
JK	Kuji Maru	56
JO	Joyo Maru	59
JT	Tamashima Maru	93
JU	Junko Maru	00
K1	Kaiyo Maru No. 1	00
"	Kaiyo No. 1	
K2	Kaiyo Maru No. 2	00
"	Kaiyo No. 2	
K3	Kaiyo Maru No. 3	00
"	Kaiyo No. 3	
K4	Kaiyo Maru No. 4	00
"	Kaiyo No. 4	
"	Kaiyo	
K5	Kaiyo Maru No. 5	00
K6	Kaiyo Maru No. 6	00
"	Kaiyo No. 6	
KA	Kaiho Maru	00
KB	Kotobuki Maru	93
KC	Kotaka Maru	25
KD	Koyo Maru	55
KE	Kyoei Maru	23
KF	Kofu Maru	12
KG	Kasasagi Maru	
KH	Komahashi	00
KI	Katashima Maru	00
KJ	Koshiji Maru	86
KK	Katsuriki	00
KL	Kozu	04
KM	Kamoi Maru	67
KN	Kongosan Maru	
KO	Koshi Maru	11
KP	Kumano	05
KR	Kuroshio Maru	15
KS	Kiso	09
KT	Kochi Maru	00
KU	Kuzuryu	08
KV	Kii Maru	68
KW	Kawachidori	08
KX	Kikuchi	07
KY	Kyosei Maru	23
KZ	Kiji	02

MA	Mankei Maru	
MB	Murachidori	07
MC	Mikura	02
MD	Miochidori	02
ME	Meiyo Maru	00
"	Meiyo	
MG	Myoga Maru	00
MH	Tokushima Maru	69
MI	Misago Maru	00
MJ	Monju Maru	57
MK	Miyako Maru	56
ML	Myoko Maru	86
MM	Mogami Maru	87
MN	Manshu	00
MO	Mogami	01
MR	Tako Maru	66
MS	Musashi Maru	61
MT	Matsue	00
MU	Miura	08
MV	Mito Maru	59
MY	Miyagi Maru	00
MZ	Mizuho Maru	27
NA	Nagasaki Maru	14
NE	Kinsei Maru	54
NG	Nagara	08
NI	Hinokuni	74
NK	Hakusan Maru	84
NN	Nanao Maru	23
NO	Noto	09
NS	Noshiro	08
NU	Tsushima Maru	
NY	Shonan Maru	26
02	Toshi Maru No. 2	00
05	Toshi Maru No. 5	00
07	Toshi Maru No. 7	00
0A	Oyashio Maru	12
0B	Oki	08
0C	Okichidori	05
0D	Oyodo	07
0E	Oyate	
0I	Kaiko Maru	66
0K	Okushiri	01
0M	Osumi Maru	
0O	Koho Maru	70
0P	Koshiki	10
0R	Tottori Maru	80
0S	Oshoro Maru	32
0T	Otomari	00
0V	Okayama Maru	90
0X	Oita Maru	71
0Y	Kiyo Maru	68
0Z	Ojika	02

RA	Shiratori Maru	81
RE	Rebun	01
RF	Ryofukū Maru	57
RI	Rishiri	01
RK	Katori Maru No. 7	57
RM	Asama Maru	67
RO	Oumijima Maru	78
RS	Reisui	67
RT	Too Maru	55
RY	Ryofu Maru	11
S1	Shonan Maru No. 1	00
S3	Shonan Maru No. 3	00
S6	Shonan Maru No. 6	00
S7	Shonan Maru No. 7	00
S8	Shonan Maru No. 8	00
SA	Sado	09
SB	Soya	01
SC	Shunyo Maru	25
SE	Soei Maru	00
SF	Sumida	03
SG	Sagami Maru	64
SH	Seifu Maru	15
SI	Shinnan Maru	11
SJ	Sendai	10
SK	Shunkotsu Maru	00
SM	Shimane Maru	79
SN	Shinano	09
SO	Soyo Maru	24
SR	Sorachi	01
SS	Shikiisan Maru	
ST	Satsuma	10
SU	Shumpu Maru	13
SW	Sawachidori	08
SX	Shikine	03
SY	Shoyo Maru	73
SZ	Sachikaze Maru	72
T1	Takunan Maru No. 1	00
T2	Takunan Maru No. 2	00
T3	Takunan Maru No. 3	00
T5	Takunan Maru No. 5	00
T8	Takunan Maru No. 8	00
TA	Tankai Maru	22
TB	Chiba Maru	60
TC	Tachibana Maru	64
TD	Tansei Maru	
TE	Tateyama Maru	85
TF	Tomochidori	05
TG	Tsugaru	11
TH	Taiho Maru	12
TI	Chikubu Maru	11
TK	Takuyo	00
TM	Tama Maru	00
TN	Tone	02

TO	Tonan Maru	94
TP	Tsumeki Maru	00
TR	Tenryu	01
TS	Toshi Maru	00
TT	Tatsuta	01
TU	Chofu Maru	14
TW	Tokiwa Maru	59
TX	Takunan Maru No.10	00
TY	Choshu Maru	
TZ	Chikugo	07
U3	Ume Maru No. 3	57
UA	Hakuo Maru	23
UG	Suruga Maru	65
UH	Ashu Maru	69
UI	Kuroshio Maru	78
UK	Ukuru Maru	11
UM	Umikaze Maru	14
UN	Unryu Maru	15
UO	Suyo Maru	
UR	Tsuru Maru	75
US	Oshima Maru	23
UT	Umitaka Maru	23
UV	Yoshu Maru	92
UY	Kosyu	00
UZ	Uzura	02
WA	Wakataka Maru	23
WI	Tokiwa	59
XA	Kabashima Maru	07
XB	Katsu Maru No. 2	07
Y1	Kyo Maru No. 1	23
Y6	Kyo Maru No. 6	00
Y7	Kyo Maru No. 7	00
Y8	Kyo Maru No. 8	00
YA	Yamato	00
YD	Tamadori	
YE	Yoneyama Maru	00
YG	Hyogo Maru	81
YH	Yashio Maru	62
YI	Hayachine Maru	56
YK	Yoko Maru	25
YM	Toyama Maru	00
YN	Yoshino	01
YO	Yodo	00
YR	Koyo Maru	20
YS	Yushio Maru	12
YU	Yukari	09
YV	Koyo Maru	51
YX	Kyo Maru No.10	00
YZ	Yamazuki	09

ZE	Zenko Maru	
ZI	Izu	03
ZU	Zuiho Maru	55
ZY	Joban Maru	23

2. JODC NEW SHIP CODES (OBSERVED YEAR: 1965-1977)

JAPAN (49)

CODE	SHIP NAME	INSTITUTION CODE
A2	Ashu Maru (No. 2)	69
A8	ASU-85	AØ
AA	Asama Maru	67
AB	Abukuma	Ø2
AC	Akashi	AØ
AE	Taisei Maru	4Ø
AG	Amagi Maru	65
AH	Ashiya Maru	ØØ
AI	Asagiri Maru	89
AK	Kotaka Maru	25
AM	Amami	1Ø
AØ	Oshima Maru	61
AR	Ariiso Maru	27
AS	Ashizuri Maru	7Ø
AT	Tako Maru	66
AU	Azuma	58
AW	Awaji	Ø5
AY	Okayama Maru	9Ø
AZ	Azuma	62
BO	Bosei Maru	38
BI	Bihoro	Ø1
CB	Chiba Maru No. 2	6Ø
CH	Chofu Maru	14
CI	Chifuri	Ø2
CT	Chitose	Ø1
DA	Daio	Ø5
DI	Daisen	8Ø
DT	Daito	Ø1
EI	Eiko Maru	5Ø
EH	Hekura	Ø8
EN	Enoshima Maru	64
ER	Erimo	Ø1
ES	Sendai	1Ø
ET	Teshio	Ø1
FI	Fuji Maru	65
FJ	Fuji	ØØ
FK	Fukui Maru	83
FU	Fusakaze Maru	6Ø
G1-G9	AGS 1-9	AØ
GA	Kagami	76
GE	Genkai	Ø3
GH	Hakurei Maru	GS
GK	Sasagake Maru	78
GN	Genkai Maru	77

H1	Hyogo Maru No. 1	81
H2	Hosho Maru No. 2	57
HA	Hayachine Maru	56
HC	Hachijo	05
HD	Hidehiko Maru	77
HE	Heian Maru	82
HG	Hyogo Maru	81
HI	Shinano	09
HK	Hakuho Maru	35
HM	Kamishima	04
HN	Hinokuni	74
HO	Hokko Maru	23
HS	Hayasui Maru	71
HT	Hayate	89
HU	Hakuryu Maru No. 18	57
HY	Hachiryu Maru No. 13	57
IA	Tamashima Maru	93
IH	Ashitaka	03
IK	Iki	10
IS	Ishikari	01
IT	Itsuki Maru	91
IY	Kaiyo Maru	27
IZ	Izu	04
IO	Tokushima	69
IU	Isuzu	04
K3	Kyosho Maru No. 3	57
K5	Katori Maru No. 5	57
K7	Katori Maru No. 7	57
KA	Kaiyo	00
KB	Kurobe	09
KC	Kikuchi	07
KE	Keiten Maru	32
KF	Keifu Maru	11
KG	Kagoshima Maru	45
KH	Koshiki	10
KI	Kii	68
KK	Kaiko Maru	66
KM	Koyo Maru	51
KN	Kinsei Maru	54
KO	Kofu Maru	12
Kr	Koyo Maru	55
KS	Kiso	09
KT	Kitakami Maru	56
KU	Kuroshio Maru	78
KY	Koyo Maru	20
KZ	Kozu	04
MA	Miyake	02
ME	Meiyo	00
MG	Mogami	04
MH	Mizuho Maru	70
MI	Mito Maru	59
MK	Mikura	02
MN	Minabe	05

MO	Mogami Maru	87
MR	Muroto	05
MS	Misago Maru	64
MU	Miura	08
MY	Myojin Maru	57
NA	Nagasaki Maru	44
NI	Kunimi	10
NN	Tonan Maru	94
NO	Nojima	03
NS	Hakusan Maru	84
NT	Natori	02
NU	Tanshu Maru	81
OA	Oyashio Maru	53
OC	Tokachi	01
OH	Hokusei Maru	32
OI	Oki	08
OJ	Ojika	02
OK	Okushiri	02
OM	Too Maru	55
ON	Hokushin Maru	52
OO	Oyodo	10
OR	Tottori Maru	80
OS	Oshoro Maru	32
OT	Noto	09
OU	Oumishima Maru	78
OW	Soya	01
OZ	Koshiji Maru	86
RA	Shiratori Maru	81
RD	hirado	07
RE	Rebun	01
RH	Horonai	01
RI	Rishiri	01
RO	Sarobetsu	07
RU	Reisui Maru	67
RY	Ryofu Maru	11
S2	Shinei Maru	57
S8	Seiko Maru No. 8	57
SA	satsuma	10
SB	Shinayabusa Maru	57
SC	Sorachi	01
SD	Sado	09
SE	Shimane Maru	79
SG	Sagami	02
SH	Shumpu Maru	13
SI	Seifu Maru	15
SJ	Shintajima Maru	81
SK	Shikine	03
SM	Sumida	03
SN	Shinyo Maru	36
SO	Shonan Maru	73
SR	Suruga Maru	65
SS	Senshu Maru	88

ST	Satsunan Maru	73
SU	Shunyo Maru	25
SY	Soyo Maru	24
TA	Takuyo	00
TC	Tachibana Maru	72
TE	Tenyo Maru	20
TH	Tachibana Maru	64
TI	Tikiwa	59
TK	Tankai Maru	22
TM	Tomochidori	05
TN	Tansei Maru	35
TO	Tokai Univ. II	38
TR	Tsuru Maru	75
TS	Tsugaru	10
TT	Tateyama Maru	85
TU	Tokushima Maru	69
TY	Tenyo	00
TZ	Tosa	70
U3	Ume Maru No. 3	57
UA	Amakusa	07
UK	Kuma	05
UI	Kunashiri	01
UM	Umitaka Maru	36
UN	Takunan Maru	62
US	Ushio	64
UT	Utsumi Maru	60
UF	Fuji	05
WA	Wakataka Maru	23
YA	Yaeyama	1A
YH	Yoshu Maru	92
YI	Yashio	62
YO	Yoko Maru	26
YS	Shoyo Maru	21
YU	Yubari	01
YY	Shoyo	00
ZU	Zuio Maru	55

3. CSK Ship Codes

CC	COUNTRY	SC	SHIP	ABBREVIATION	AGENCY
49	JAPAN	CH	Chofu Maru	NMOJMA	Nagasaki Marine Observatory, JMA
		HK	Hakuho Maru	ORIUT	Ocean Research Institute, Univ. Tokyo
		IY	Kaiyo Maru	FSFRL	Far Sea Fisheries Research Laboratory
		KA	Kaiyo	HDMSA	Hydrographic Department, MSA
		KE	Keiten Maru	KU	Kagoshima University
		KF	Keifu Maru	MDJMA	Marine Department, JMA
		KG	Kagoshima Maru	KU	Kagoshima University
		KO	Kofu Maru	HMOJMA	Hakodate Marine Observatory, JMA
		KY	Koyo Maru	SUF	Shimonoseki University of Fisheries
		ME	Meiyo	HDMSA	Hydrographic Department, MSA
		NA	Nagasaki Maru	NU	Nagasaki University
		OS	Oshoro Maru	HU	Hokkaido University
		RY	Ryofu Maru	MDJMA	Marine Department, Japan Meteorological Ag.
		SA	Satsuma	NSA	Maritime Safety Agency
		SH	Shumpu Maru	KMOJMA	Kobe Marine Observatory, JMA
		SI	Seifu Maru	HMOJMA	Maizuru Marine Observatory, JMA
		SN	Shinyo Maru	TUF	Tokyo University of Fisheries
		SU	Shunyo Maru	NRFRL	Nansei Regional Fisheries Research Lab.
		SY	Soyo Maru	TRFRL	Tokai Regional Fisheries Research Lab.
		TA	Takuyo	HDMSA	Hydrographic Department, MSA
		TE	Tenyo Maru	SUF	Shimonoseki University of Fisheries
		TN	Tansei Maru	ORIUT	Ocean Research Institute, Univ. of Tokyo
		TO	Tokai University II	TOKA.U.	Tokai University
		UM	Umitaka Maru	TUF	Tokyo University of Fisheries
		YO	Yoko Maru	SRFRL	Sekai Regional Fisheries Research Lab.
		YY	Shoyo	HDMSA	Hydrographic Department, MSA
21	CHINA	YM	Yang Ming		
24	KOREA	BA	Baek Du San	FRDA	Fisheries Research & Development Agency
	Rep. of	BK	Buk Ak San	FRDA	"
		BU	Buk Han San	FRDA	"
		CH	Chun Ma San	FRDA	"
		HA	Han Ra San	FRDA	"
		JI	Ji Ri San	FRDA	"
		KE	Kerim	HO	"
		SR	Suro No. 3	HO	Hydrographic Office
		SU	Suro No. 1	HO	"
		TA	Tae Baek San	FRDA	Fisheries Research & Development Agency
31	U.S.A.	AR	Argo	SIO	Scripps Inst. of Oceanography, Univ. Cal.
		AT	Atlantis	WHOI	Woods Hole Oceanographic Institution
		BS	Bering Strait	CG	U.S. Coast Guard
		CH	Chautauqua	CG	"
		HU	Hunt	NAVOCO	U.S. Naval Oceanographic Office
		KE	George B. Kelez	BCF	Bureau of Commercial Fisheries
42	INDONESIA	BU	Burudjulasa	NHO	Navy Hydrographic Office
		JA	Jalanidhi	NHO	"
		SA	Samudera	IMR	Institute of Marine Research
66	PHILIPPINES	RE	Researcher I	PFC	Philippine Fisheries Commission
74	U.K. (Hong Kong)	CM	Cape St. Mary	FRS	Fisheries Research Station
86	THAILAND	CH	Chanthara	HDRTN	Hydrographic Department, Royal Thai Navy
		F2	Fishry Research No. 2	DF	Department of Fisheries
		KL	Kledkeo	HDRTN	Hydrographic Department, Royal Thai Navy
		O1	Oceanographic Vessel No. 1	HDRTN	"
90	U.S.S.R.	GR	Uliana Gromova	NHS	Naval Hydrographic Service
		IS	Iskatel	TINRO	Pacific Ocean Inst. Scientific Invest.
					Marine Fisheries & Oceanography
		KO	A. Korolev	DVNIGMI	Far Eastern Hydrometeorological Scientific Research Institute
		NE	G. Nevelskoy	NHS	
		OK	Okean	DVNIGMI	
		OR	Orlick	TINRO	
		PL	Pelamida	TINRO	
		PI	Priboy	DVNIGMI	
		PR	Priliv	DVNIGMI	
		S8	SRTM 8-459	TINRO	
		SE	Seskar	TINRO	
		SH	U.M. Schokalsky	DVNIGMI	
		SI	A. Shirshov	DVNIGMI	
		TA	Tamango	TINRO	
		UC	Ucheny	TINRO	
		VI	Vitjaz	IOAN	Academic of Sciences of U.S.S.R., Inst. Oceanology
		VL	Volna	DVNIGMI	
		VO	A.I. Voeikov	DVNIGMI	
		ZH	Zhyemchig	PINRO	
MS	MALAYSIA	PE	Penyelidek I	DF	Polar Institute of Scientific Investigation for Marine Fisheries & Oceanography
SI	SINGAPORE	CH	Changi	MFRD	Department of Fisheries
					Marine Fisheries Research Department, SEAFDEC

4. JODC INSTITUTION CODES

<u>CODE</u>	<u>INSTITUTION</u>
00	Hydrographic Department, Maritime Safety Agency
01	1st Regional Maritime Safety Headquarters, MSA
02	2nd Regional Maritime Safety Headquarters, MSA
03	3rd Regional Maritime Safety Headquarters, MSA
04	4th Regional Maritime Safety Headquarters, MSA
05	5th Regional Maritime Safety Headquarters, MSA
06	6th Regional Maritime Safety Headquarters, MSA
07	7th Regional Maritime Safety Headquarters, MSA
08	8th Regional Maritime Safety Headquarters, MSA
09	9th Regional Maritime Safety Headquarters, MSA
10	10th Regional Maritime Safety Headquarters, MSA
1A	11th Regional Maritime Safety Headquarters, MSA
0C	District Port Construction Bureaus
11	Marine Department, Japan Meteorological Agency
12	Hakodate Marine Observatory, JMA
13	Kobe Marine Observatory, JMA
14	Nagasaki Marine Observatory, JMA
15	Maizuru Marine Observatory, JMA
20	Shimonoseki University of Fisheries
21	Research Department, Fisheries Agency
22	Hokkaido Regional Fisheries Research Laboratory
23	Tohoku Regional Fisheries Research Laboratory
24	Tokai Regional Fisheries Research Laboratory
25	Nansei Regional Fisheries Research Laboratory
26	Seikai Regional Fisheries Research Laboratory
27	Japan Sea Regional Fisheries Research Laboratory
2B	Oceanographical Division, Nansei Regional Fisheries Research Laboratory (Kochi)
29	Oceanographical Division, Far Sea Fisheries Research Laboratory (Shimizu)
32	Faculty of Fisheries, Hokkaido University
35	Ocean Research Institute, University of Tokyo
36	Tokyo University of Fisheries
37	Nihon University
38	Faculty of Marine Science & Technology, Tokai University
3B	Polar Research Center, National Science Museum
40	Faculty of Fisheries, Mie Prefectural University
44	Faculty of Fisheries, Nagasaki University
45	Faculty of Fisheries, Kagoshima University
50	Hokkaido Fisheries Experimental Station (Wakkanai)
51	Hokkaido Fisheries Experimental Station (Abashiri)
52	Hokkaido Fisheries Experimental Station (Kushiro)
53	Hokkaido Fisheries Experimental Station (Hakodate)
54	Hokkaido Central Fisheries Experimental Station
55	Aomori Prefectural Fisheries Experimental Station
56	Iwate Prefectural Fisheries Experimental Station
57	Miyagi Prefectural Fisheries Experimental Station
58	Fukushima Prefectural Fisheries Experimental Station
59	Ibaragi Prefectural Fisheries Experimental Station

60 Chiba Prefectural Fisheries Experimental Station
 6B Chiba Nai-Wan Prefectural Fisheries Experimental Station
 61 Tokyo Metropolitan Fisheries Experimental Station
 62 Tokyo Metropolitan Fisheries Experimental Station (Oshima)
 63 Tokyo Metropolitan Fisheries Experimental Station (Hachijo)
 64 Kanagawa Prefectural Fisheries Experimental Station
 65 Shizuoka Prefectural Fisheries Experimental Station
 6A Shizuoka Prefectural Fisheries Experimental Station (Ito)
 66 Aichi Prefectural Fisheries Experimental Station
 67 Mie Prefectural Fisheries Experimental Station
 68 Wakayama Prefectural Fisheries Experimental Station
 69 Tokushima Prefectural Fisheries Experimental Station
 70 Kochi Prefectural Fisheries Experimental Station
 71 Oita Prefectural Fisheries Experimental Station
 72 Miyazaki Prefectural Fisheries Experimental Station
 73 Kagoshima Prefectural Fisheries Experimental Station
 74 Kumamoto Prefectural Fisheries Experimental Station
 75 Nagasaki Prefectural Fisheries Experimental Station
 76 Saga Prefectural Fisheries Experimental Station
 77 Fukuoka Prefectural Fisheries Experimental Station
 78 Yamaguchi Prefectural Fisheries Experimental Station
 79 Shimane Prefectural Fisheries Experimental Station
 80 Tottori Prefectural Fisheries Experimental Station
 81 Hyogo Prefectural Fisheries Experimental Station
 82 Kyoto Prefectural Fisheries Experimental Station
 83 Fukui Prefectural Fisheries Experimental Station
 84 Ishikawa Prefectural Fisheries Experimental Station
 85 Toyama Prefectural Fisheries Experimental Station
 86 Niigata Prefectural Fisheries Experimental Station
 87 Yamagata Prefectural Fisheries Experimental Station
 88 Akita Prefectural Fisheries Experimental Station
 89 Osaka Prefectural Fisheries Experimental Station
 90 Okayama Prefectural Fisheries Experimental Station
 91 Hiroshima Prefectural Fisheries Experimental Station
 92 Ehime Prefectural Fisheries Experimental Station
 93 Kagawa Prefectural Fisheries Experimental Station
 94 Okinawa Prefectural Fisheries Experimental Station
 A0 Maritime Safety Defense Force, Defense Agency
 JD Japan Oceanographic Data Center
 GS Geographic Survey Institute, Ministry of Construction

Transmittal and Receipt Record

To: Mr. Robert V. Ochinero
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Washington, D.C. 20235
U.S.A.

Refer to: JODC78/78

1. One(1)- 9 track, 800 bpi, EBCDIC mode magnetic tape (#DE7801) containing serial oceanographic station data obtained during 1957 - 1977.

Data Documentation Format and other Information

- A. Originator identification
- B. Scientific content
- C. Data Format
- D. Record Format Description
- E. JODC Ship & Institution Codes
- F. Input Layout Format
- G. Cruise Inventory

79-0045

2. One(1)- 9 track, 800 bpi, EBCDIC mode magnetic tape (#DE7802) containing IGOSS MAPMOPP data obtained during 1975 - 1978.

- A. Data Format
- B. IOC/WMO IGOSS MAPMOPP SYNDARC Format
- C. 9t tape (JIS/EBCDIC mode) print
- D. IGOSS MAPMOPP (Oil slick) - Tape dump
- E. " (Tar Ball) - "
- F. " (Beach Tar)- "
- G. " (Hydrocarbon. & Documentation) - Tape dump

Forwarded by

Hideo Nitani

Hideo Nitani

Director,

Japan Oceanographic Data Center

Date Forwarded: 22 December 1978

Received by

Richard D. Kuhn

Date Received:

1/15/79

Please return signed acknowledgment copy to:

Japan Oceanographic Data Center
Hydrographic Department,
Maritime Safety Agency
No. 3-1, Tsukiji, 5 Chome, Chuo-ku,
Tokyo 104, JAPAN

F. Serial Station Data Cruise/Geographic

各層觀測資料/航海/地域

PROBLEM

WRITTEN BY

DATE PREPARED:

$$\begin{cases} X: 11 \text{ OVERPUNCH.} \\ Y: 12 \text{ OVERPUNCH.} \end{cases}$$

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COUNTRY	SHIP	LATITUDE		LONGITUDE		MSQ	DATE		TIME	SHIP	SHIP	DEPTH	WATER	WAVE	WIND	AIR TEMP.	WV	WV	SPECIAL	JODC PROCESSING NO.	SORT KEY				DEPTH	CARD TYPE																																																															
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COUNTRY	SHIP	LATITUDE		LONGITUDE		MSQ	DATE		TIME	SHIP	SHIP	DEPTH	WATER	WAVE	WIND	AIR TEMP.	WV	WV	SPECIAL	JODC PROCESSING NO.	SORT KEY				DEPTH	CARD TYPE																																																															
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COUNTRY	SHIP	LATITUDE		LONGITUDE		MSQ	DATE		TIME	SHIP	SHIP	DEPTH	WATER	WAVE	WIND	AIR TEMP.	WV	WV	SPECIAL	JODC PROCESSING NO.	SORT KEY				DEPTH	CARD TYPE																																																															
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accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
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7900045	C100	490974	9999	4920	49RY	1977/01/15	NULL	308850

7900045	C100	490975	9999	4905	49TU	1977/01/21	NULL	308851
7900045	C100	490976	9999	4952	49SH	1977/02/06	NULL	308852
7900045	C100	490977	9999	4906	49SU	1976/07/02	NULL	308853
7900045	C100	490978	9999	4904	49KF	1976/08/04	NULL	308854
7900045	C100	490979	9999	4953	492S	1977/03/09	NULL	308855
7900045	C100	490980	9999	4905	49TU	1975/01/28	NULL	308856
7900045	C100	490981	9999	4920	49RY	1977/06/04	NULL	308857
7900045	C100	490982	9999	4906	49SU	1977/01/29	NULL	308858
7900045	C100	490983	9999	4904	49KF	1977/02/08	NULL	308859
7900045	C100	490984	9999	4953	49TK	1977/05/10	NULL	308860
7900045	C100	490985	9999	4904	49KF	1977/07/20	NULL	308861
7900045	C100	490986	9999	4904	49KF	1975/07/03	NULL	308862
7900045	C100	490988	9999	4904	49KF	1976/02/10	NULL	308863
7900045	C100	498005	9999	4953	49TK	1972/09/08	NULL	308864
7900045	C100	498006	9999	4964	49FM	1971/12/17	NULL	308865
7900045	C100	900579	9999	9005	90SH	1972/01/30	NULL	308866
7900045	C100	900587	9999	9015	90ES	1975/04/11	027	308867
7900045	C100	900588	9999	9015	90ES	1975/07/09	NULL	308868

(75 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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7900045	C100	240039	24S3	19	401	74/09/02	74/09/04
7900045	C100	240040	24S3	20	20	75/06/08	75/06/10
7900045	C100	490740	49UT	28	28	57/10/29	57/12/04
7900045	C100	490894	49CS	32	32	61/05/30	61/06/10
7900045	C100	490895	49CS	17	17	62/06/23	62/07/02
7900045	C100	490896	49CS	20	20	63/06/27	63/07/06
7900045	C100	490897	49CS	15	0	64/06/28	64/07/08
7900045	C100	490898	49KG	25	15	58/04/07	58/04/18
7900045	C100	490899	49UT	12	13	58/07/30	58/08/14
7900045	C100	490900	49UT	14	14	58/11/06	58/11/14
7900045	C100	490901	49HH	6	12	68/07/19	68/08/07
7900045	C100	490902	49JA	20	19	70/01/29	70/02/01
7900045	C100	490906	49HZ	23	33	73/12/17	74/03/06
7900045	C100	490907	49HZ	10	13	74/12/17	75/03/02
7900045	C100	490908	49B1	78	143	76/05/15	76/11/07
7900045	C100	490915	491A	13	13	76/06/19	76/08/19
7900045	C100	490917	492A	8	8	76/05/24	76/07/15
7900045	C100	490919	49K6	109	0	77/12/10	78/02/13
7900045	C100	490920	49B1	47	74	77/01/19	77/09/14
7900045	C100	490925	492A	10	10	77/04/21	77/11/08
7900045	C100	490928	493A	20	20	77/06/21	77/10/16
7900045	C100	490931	494A	31	31	77/06/06	77/10/27
7900045	C100	490935	49OS	43	43	57/08/26	58/06/27
7900045	C100	490937	49RY	76	107	74/06/07	74/07/24
7900045	C100	490938	49TU	43	0	74/07/20	74/08/14
7900045	C100	490939	49KA	37	37	74/01/21	74/01/27
7900045	C100	490940	49K6	22	22	74/08/13	74/08/30
7900045	C100	490941	49SH	70	0	74/07/16	74/08/13
7900045	C100	490943	49KF	33	33	74/07/05	74/07/18
7900045	C100	490944	49SU	49	0	74/07/12	74/07/27
7900045	C100	490945	49RY	51	51	75/01/14	75/01/30
7900045	C100	490946	49SH	51	51	75/02/04	75/03/13
7900045	C100	490947	49TK	31	31	75/03/07	75/03/23
7900045	C100	490949	49OS	29	29	73/11/12	73/12/05
7900045	C100	490950	49TU	43	0	75/07/12	75/08/11
7900045	C100	490951	49KF	26	26	75/02/05	75/03/01
7900045	C100	490953	49SU	65	0	75/02/01	75/02/26
7900045	C100	490955	49RY	107	121	75/06/10	75/08/05
7900045	C100	490956	49TK	22	22	74/03/13	74/03/21
7900045	C100	490957	49TK	24	24	75/05/08	75/05/19
7900045	C100	490958	49K6	31	46	75/08/20	75/09/02
7900045	C100	490959	49RY	65	0	76/01/15	76/02/13
7900045	C100	490960	49TU	23	23	76/02/09	76/02/19
7900045	C100	490961	49SU	65	0	75/07/03	75/08/03
7900045	C100	490962	49SH	48	48	76/02/06	76/03/03
7900045	C100	490963	49TK	44	44	74/10/28	74/11/20
7900045	C100	490964	49HK	22	26	72/05/13	72/07/27
7900045	C100	490965	49SU	13	13	76/02/02	76/02/03
7900045	C100	490966	49TU	46	0	76/07/10	76/08/03
7900045	C100	490967	49TK	56	56	75/10/18	75/11/14
7900045	C100	490968	492S	18	18	76/03/18	76/03/23
7900045	C100	490969	49TK	41	60	76/05/19	76/06/02
7900045	C100	490970	49K6	23	35	76/08/10	76/08/23
7900045	C100	490971	49SH	50	50	76/07/09	76/08/07
7900045	C100	490972	492S	27	43	76/11/13	76/11/25
7900045	C100	490973	49RY	106	121	76/06/12	76/08/05

7900045	C100	490974	49RY	62	0	77/01/15	77/02/16
7900045	C100	490975	49TU	55	55	77/01/21	77/02/19
7900045	C100	490976	49SH	32	32	77/02/06	77/03/13
7900045	C100	490977	49SU	30	0	76/07/02	76/07/23
7900045	C100	490978	49KF	31	31	76/08/04	76/08/26
7900045	C100	490979	492S	24	36	77/03/09	77/03/20
7900045	C100	490980	49TU	38	38	75/01/28	75/02/24
7900045	C100	490981	49RY	107	124	77/06/04	77/07/28
7900045	C100	490982	49SU	30	0	77/01/29	77/02/18
7900045	C100	490983	49KF	23	23	77/02/08	77/03/01
7900045	C100	490984	49TK	30	51	77/05/10	77/05/25
7900045	C100	490985	49KF	34	34	77/07/20	77/08/11
7900045	C100	490986	49KF	64	0	75/07/03	75/08/20
7900045	C100	490988	49KF	23	0	76/02/10	76/03/05
7900045	C100	498005	49TK	51	0	72/09/08	72/10/03
7900045	C100	498006	49FM	18	20	71/12/17	72/04/06
7900045	C100	900579	90SH	161	149	72/01/30	72/04/23
7900045	C100	900587	90ES	103	103	75/04/11	75/05/29
7900045	C100	900588	90ES	123	123	75/07/09	75/08/29

(75 rows affected)