## Subsurface current data

## 1 File Name

xxyynn.A

where, xx: Hydrographic Code [listed in Table1]

yy: Year (last 2 digits)

nn: Consecutive number (Month; Before winter of 2010)

## 2 Format of File

Subsurface current data consist of ASCII records of fixed lengths (126 bytes). Each record is separated by two characters like as in DOS, which characters are one "control M" (carriage return, ASCII code 0Dh) and one "control J" (line feed, ASCII code 0Ah). For a missing value, the character '-'(ASCII code 2Dh) is put in place of the measured value. The column of the element that was not observed is filled with blanks.

Subsurface current data consist of cruise information record (HEADER) and subsurface current data records (DATA) obtained during the cruise. The character '@' on the "REC\_IND" of DATA represents the end record of the station data group.

#### **HEADER** (Cruise Information)

Element	Start	Field	Description of Field
	Position	Туре	
FORMAT CODE	1	A4	Format code of the file: 'Ax.x'
CRUISE NO	6	14	Cruise number identified with the year and
			the month.
PERIOD	11	2(2I2,1X)	Date of beginning and end of the subsurface
			current observations.
AREA	21	A98	Observation area.
NO OF STN	119	14	Number of stations.
SHIP CODE	124	A2	Hydrographic Code (listed in Table 1.).
$\mathtt{REC}_{-}\mathtt{IND}$	126	A1	<b>'</b> @ <b>'</b>

### DATA

Element	Start	Field	Description of Field
	Position	Туре	
STATION NO	1	A3,I3	Station number given by the subsurface
			current code suffixed with three digits
			consecutive numbers.
DATE/TIME	8	2(212,1%)	Month, day and time of an observation in
			JST.
LATITUDE	18	I2,1X,I2,I1,A	A1 Degrees, minutes and tenths of minutes (if
			given) of latitude, N or S.
LONGITUDE	26	I3,1X,I2,I1,A	A1 Degrees, minutes and tenths of minutes (if
			given) of longitude, E or W.
W-DEPTH	35	14	Water depth to the bottom in meters.
NO OF LAYER	40	12	Number of observation layers.

Depth(1)		<u> </u>		DATA (CONTINUED)
DEPTH(1) 43 I4 Depth of the 1st(4th) layer in meters.  DIR/SPEED(1) 48 I3,1X,I2 True direction(in degrees) toward which current is flowing and speed given in tenths of knots of the subsurface current for the 1st (4th) layer determined with Acoustic Doppler Current Meter (ACM). When the speed is less than 0.05knots, direction is given as 0.  DEPTH(2) 55 I4 Same as above but for the 2nd (5th) layer.  DIR/SPEED(2) 60 I3,1X,I2 idem  DEPTH(3) 67 I4 Same as above but for the 3rd (6th) layer.  DIR/SPEED(3) 72 I3,1X,I2 idem  REF 79 A2 Method to determine the ship velocity, which is used to calculate the absolute current velocity. (LC: Loran-C, GP: GPS, BM: Bottom track by ACM.)  SURF-TEMP 82 F5.2 or Surface temperature in ITS-90.  SURF-SAL 88 F6.3 Surface salinity in PSS-78.  HYD-NO 95 I4 Corresponding station number of hydrographic data.  SSF-NO 99 A2,I3 Corresponding station number of subsurface temperature data.  INTERVAL 105 I4 Time of averaging interval in seconds.  SHIP-DIR 110 I3 Direction of the ship in degrees.  SHIP-SPD 114 I3 Speed of the ship in tenths of knots.  HEAD 118 I3 Heading of the ship from gyro in degrees.  PING NO 122 I4 Number of pings over the averaging period.	Element			Description of Field
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DEPTH(2)   55   14   Same as above but for the 2nd (5th) layer.				the speed is less than 0.05knots, direction
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temperature data.  INTERVAL 105 I4 Time of averaging interval in seconds.  SHIP-DIR 110 I3 Direction of the ship in degrees.  SHIP-SPD 114 I3 Speed of the ship in tenths of knots.  HEAD 118 I3 Heading of the ship from gyro in degrees.  PING NO 122 I4 Number of pings over the averaging period.				hydrographic data.
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PING NO 122 I4 Number of pings over the averaging period.	SHIP-SPD	114	13	Speed of the ship in tenths of knots.
	HEAD	118	13	Heading of the ship from gyro in degrees.
REC_IND 126 A1 '@' or '='	PING NO	122	14	Number of pings over the averaging period.
	$\mathtt{REC}_{-}\mathtt{IND}$	126	A1	'@' or '='

Table 1: Ship codes.

Ship Name	Hydrographic	Subsurface current	BT
Kofu Maru	KH/KO	AH/AO	TH/TO
Ryofu Maru	RF	AF	TF
Keifu Maru I	KE	AE	TE
Keifu Maru II	KS	AS	TS
Shumpu Maru	SH	AH	TH
Chofu Maru	NC	AC	TC
Seifu Maru	SM	AM	TM

# Data Record Layout

60 55 50 45 AREA 40 35 30 25 Subsurface current data HEADER (Cruise Information) (blank) 20 Day PERIOD Month <u>1</u>5 Day Month (blank) 10 CRUISE NO (blank) 5 FORMAT CODE

REC\_IND 125 SHIP CODE (blank) NO OF STN 120 115 110 105 100 AREA (cont.) 95 90 85 80 75 70 65

SPEED (blank) 2nd(5th)Layer DIR 60 (blank) DEPTH 55 (blank) SPEED 1st(4th)Layer (blank) 50 DIR (blank) 45 DEPTH (blank) NO OF LAYER 40 (blank) W-DEPTH 35 (blank) E/W 1/10 Min. LONGITUDE Min. 30 Deg. (blank) 25 N/S 1/10 Min. LATITUDE Min. 20 DATA (Station Information) Deg. (blank) Minute 15 DATE/TIME (JST) Hour (blank) Day 10 Month (blank) 5 STATION NO

	REC_IND		
		125	
	PING NO		
	(blank)		
		120	
	HEAD		
	(blank)		
	SHIP-SPD	115	
	(blank)		
	SHIP-DIR		
		110	
	(blank)		
	INTERVAL		
		105	
	(blank)		
	SSF-NO	100	
		100	
		}	
	HYD-NO		
	(blank)	95	
	SURF-SAL		
	BOKE - SAL	90	
	(blank)		
	G	85	
	SURF-TEMP		
	(blank)		
	REF	80	
	(blank)		
	SPEED		
er	(blank)	75	
3rd(6th)Layer	DIR	, ,	
	(blank)	70	
rd	DEPTH	/ / 0	
ω			
	(blank)		
	SPEED(cont.)	65	