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한 국 해 양 자 료 센 타  
KOREA OCEANOGRAPHIC DATA CENTER

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Transmittal and Receipt Record

(Please return signed and acknowledgement copy)

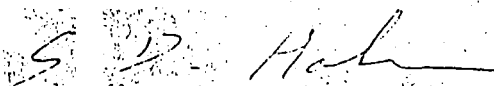
Dr. Sydney Levitus  
Principal Investigator  
NOAA/NESDIS/NODC/OC22  
1825 Connecticut Avenue N.W.  
Washington, D.C. 20235  
U.S.A

The item below were forwarded to you by air mail.

Description of Parcels : Cardboard box

Number of Parcels : 1

List of items : 3 diskettes  
(Oceanographic Data in Korean Waters for 1961-1990)

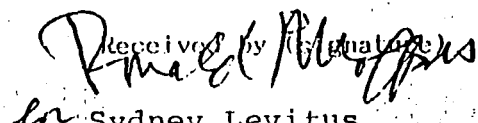
  
Forwarded by (signature)

Sangbok D. Hahn

Title : Head

Korea Oceanographic Data Center

Date forwarded : 28 May 1992

  
Received by (signature)  
for Sydney Levitus  
Principal Investigator  
Data Archaeology Project  
Title :

1 June 1992

Date received :

(3) 3.5"

# LIST OF FILE NAMES

Floppy Disk No. 1 : README, KODC6170  
Floppy Disk No. 2 : README, KODC7180  
Floppy Disk No. 3 : README, KODC8190

## 2. EXPLANATION OF FLOPPY DISK SPECIFICATIONS

Size : 3.5 inches  
Capacity : 1.44 mega bytes(2HD)  
Operating system : MS-DOS  
Data : Serial station data  
File character : Compression by LHA, decompression is auto. If you wish  
file decompress, please write file name and then press  
return (or enter) key.

## 3. SERIAL OCEANOGRAPHIC STATION DATA FILE FORMAT OBSERVED BY NFRDA

PARAMETER	DESCRIPTION	SC	FI
MASTER RECORD (Surface Environmental Information)		--	--
BLANK	ONE BLANK	1	:
COUNTRY CODE	TWO - DIGIT IOC CONTRY CODE (24=KOREA)	2	:
INSTITUTE CODE	TWO - CHARACTER KODC INSTITUTE CODE (FR=NFRD =NATIONAL FISHERIES RESEARCH & DEVELOPMENT AGENCY OF KOREA)	4	:
LINE No.	XXX - NFRDA SERIAL LINE NUMBER	6	:
STATION No.	XX - NFRDA SERIAL STATION NUMBER	9	:
LATITUDE	DDMMX (DEGREES, MINUTES TO TENTHS)	11	:
LATITUDE HEMISPHERE	ONE - CHARACTER CODE - 'N' OR 'S'	16	:
LONGITUDE	DDDMMX (DEGREES, MINUTES TO TENTHS)	17	:
LONGITUDE HEMISPHERE	ONE - CHARACTER CODE - 'E' OR 'W'	23	:
DATE (KST)	YYMMDD - YEAR, MONTH, DAY	24	:
SHIP CODE	TWO - DIGIT KODC SHIP CODE (TABLE 1)	30	:
TIME (KST)	HHMM - HOUR, MINUTE (0000-2359)	32	:
BOTTOM DEPTH	XXXX (WHOLE METERS)	36	:
WATER COLOR	TWO - DIGIT CODE - FOREL SCALE(01-11)	40	:
WATER TRANSPARENCY	XXX - SECCHI DISK DEPTH(WHOLE METERS TO TENTHS)	42	:
WAVE DIRECTION	THREE - CHARACTER - 16 POINT COMPASS BEARING	45	:
SEA STATE	ONE - DIGIT CODE - USE WMO CODE 3700 (0-9)	48	:
SWELL DIRECTION	THREE - CHARACTER - 16 POINT COMPASS BEARING	49	:
SEA STATE	ONE - DIGIT CODE - (0=CALM, 1 < 2 METERS, 2=2-4 METERS, 3 > 4 METERS)	52	:
WIND DIRECTION	THREE - CHARACTER - 16 POINT COMPASS BEARING	53	:
WIND S/F INDICATOR	ALWAYS 'F'	56	:
WIND FORCE	TWO - DIGIT CODE - BEAUFORT SCALE	57	:
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	59	:
DRY BULB AIR TEMPERATURE	XXXX (DEG C IN DEGREES TO TENTHS ; NEGATIVE VALUE PRECEDED BY MINUS SIGN)	64	:
WET BULB AIR TEMPERATURE	XXXX (DEG C IN DEGREES TO TENTHS ; NEGATIVE VALUE PRECEDED BY MINUS SIGN)	68	:

CLOUD TYPE	TWO - CHARACTER CODE - USE WMO CODE 0500	72	2
CLOUD AMOUNT	TWO - DIGIT CODE - IN TENTHS OF WHOLE SKY COVERED	74	2
WEATHER	TWO - CHARACTER CODE - (B=CLOUD AMOUNT 0-2, BC=CLOUD AMOUNT 3-7, C: CLOUD AMOUNT 8-10, R: RAIN, F: FOG, S: SNOW)	76	2
RECORD TYPE	ALWAYS '1' - MASTER RECORD	78	1
No. OF OBS. DEPTH	XX (NUMBERS OF OBSERVED DEPTH)	79	2

OBSERVED DEPTH DETAIL RECORD

OBSERVED DEPTH	XXXXX (IN METERS)	1	5
TEMPERATURE	XXXX.XX (DEG C IN DEGREES TO HUNDREDTHS ; NEGATIVE VALUE PRECEDED BY MINUS SIG	6	7
SALINITY	XXX.XXX (PARTS PER THOUSAND)	13	7
OXYGEN	XX.XX (MILLILITERS/LITER)	20	5
Phosphate-P	XX.XX (MICROGRAM - ATOMS/LITER)	25	5
Nitrite-N	XX.XX (MICROGRAM - ATOMS/LITER)	30	5
Silicate-Si	XX.XX (MICROGRAM - ATOMS/LITER)	35	5
pH	XX.XX (DIMENSIONLESS TO HUNDREDTHS)	40	5

Table 1. Ship Code

Code	Ship Name	Code	Ship Name
01	PUSAN 852	11	KYERIM HO
02	KYONGBUK 853	12	CHANGPA HO
03	CHONBUK 855	13	PUKHANSAN HO
04	KANGWON 854	14	CHINYANG HO
05	BAEKDUSAN HO	15	SURO HO
06	CHUKYANG HO	16	HONGYANG HO
07	KALMAEGI HO	17	INCHON 866
08	TONGHAE HO	18	KANGWON 867
09	BAEKYANGSAN HO	19	CHONBUK 868
10	PUKAGSAN HO	20	PUSAN 851

WEATHER : Recorded in present weather : the abbreviations

## EXPLANATION

### SERIAL OCEANOGRAPHIC STATION DATA

#### Heading ( Surface environmental information )

STATION	: Korean serial oceanographic stations No.
LATITUDE	: Given in degrees, minutes and tenths of minutes with hemisphere indicated by N.
LONGITUDE	: Given in degrees, minutes and tenths of minutes with hemisphere indicated by E.
DATE	: Given in month and day as determined by KST
TIME	: Time of the beginning of observations given in hour and minute by KST referred to the meridian of 135° E.
DEPTH	: Depth to bottom given in whole meters.
COLOR	: Water color given according to Forel scale ( 1 ~ 11 )
TRANS	: Transparency given in whole meters as determined by Secchi disc.
WAVE DIR/S	: Direction of waves given in 16 point scale of the compass bearing, from which dominant waves are coming, and sea state (S) according to WMO code 3700 ( Scale 0 ~ 9 )
SWELL DIR/S	: Direction of swell given in 16 point scale of the compass bearing, from which dominant waves are coming, and sea state (S) according to scale 0 ~ 3.
WIND DIR/F	: Direction of wind given in 16 point scale of the compass bearing, from which wind is blowing, and wind force (F) in Beaufort scale.
BARO	: Barometric pressure given in millibars.
AIR TEMP DRY	: Dry-bulb temperature given in degrees celsius.

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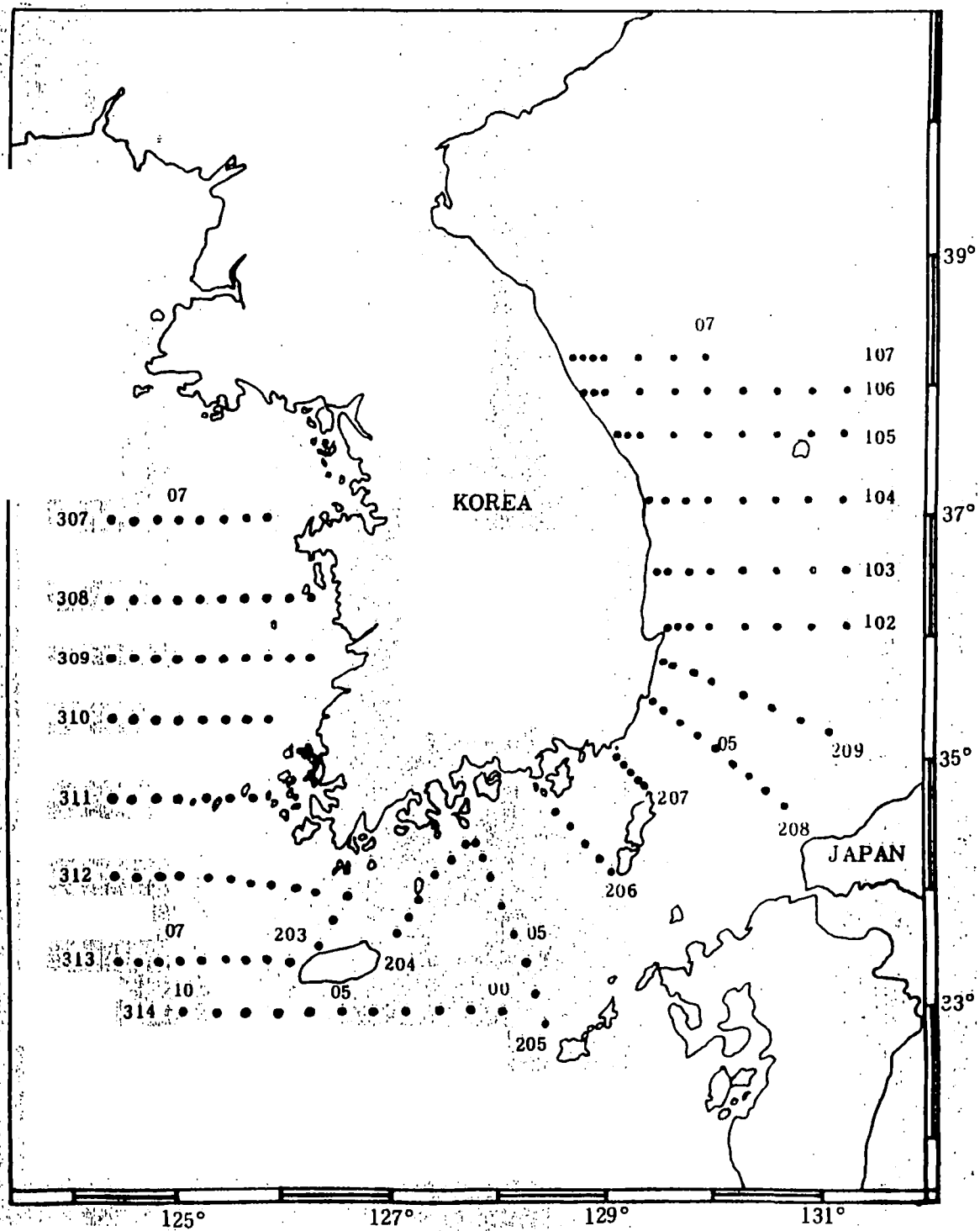
# Korea Station Data Profiles Per Year

Data received at WDC-A in june, 1992

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Year	Stations	Year	Stations	Year	Stations
1961	439	1971	1198	1981	1008
1962	499	1972	1055	1982	1048
1963	346	1973	1078	1983	1084
1964	508	1974	1110	1984	1011
1965	733	1975	1058	1985	1065
1966	748	1976	1143	1986	1068
1967	1060	1977	1159	1987	1059
1968	1317	1978	1205	1988	1016
1969	1708	1979	1095	1989	967
1970	1353	1980	1073	1990	1007

Number of Observations = 30218



定線海洋觀測點位置圖  
Location of the serial oceanographic stations.

定線海洋觀測點位置表  
Position of the serial oceanographic stations

Line \ StNo	00	01	02	03	04	05
107		38° 12.6' 128° 37.4'	38° 12.6' 128° 42.7'	38° 12.6' 128° 50.6'	38° 12.6' 129° 03.5'	38° 12.6' 129° 22.3'
106			37° 53.7' 128° 52.5'	37° 53.7' 128° 57.2'	37° 53.7' 129° 03.8'	37° 53.7' 129° 22.1'
105				37° 33.2' 129° 10.3'	37° 33.2' 129° 15.5'	37° 33.2' 129° 22.6'
104					37° 03.4' 129° 28.8'	37° 03.4' 129° 33.6'
103					36° 30.3' 129° 30.1'	36° 30.3' 129° 35.4'
102					36° 04.6' 129° 36.9'	36° 04.6' 129° 41.3'
209					35° 47.3' 129° 32.8'	35° 45.4' 129° 38.4'
208		35° 28.5' 129° 27.3'	35° 24.3' 129° 33.8'	35° 17.8' 129° 42.9'	35° 11.1' 129° 52.7'	35° 04.8' 130° 02.0'
207		35° 01.3' 129° 07.2'	34° 57.6' 129° 11.2'	34° 53.9' 129° 15.4'	34° 50.2' 129° 19.5'	34° 48.0' 129° 21.8'
206		34° 35.5' 128° 34.5'	34° 29.6' 128° 41.2'	34° 22.4' 128° 49.7'	34° 15.3' 128° 58.0'	34° 08.1' 129° 06.3'
205		34° 22.3' 127° 48.5'	34° 15.0' 127° 52.1'	34° 05.5' 127° 56.9'	33° 51.5' 128° 03.0'	33° 37.3' 128° 09.2'
204		34° 20.8' 127° 43.9'	34° 13.7' 127° 35.4'	34° 06.7' 127° 26.8'	33° 54.1' 127° 15.2'	33° 45.5' 127° 09.2'
203		33° 56.6' 126° 31.4'	33° 47.5' 126° 26.3'	33° 38.3' 126° 21.3'		
314	33° 00.0' 128° 00.0'	33° 00.0' 127° 42.0'	33° 00.0'	33° 00.0'	33° 00.0'	33° 00.0'
313			33° 24.4' 126° 00.0'	33° 24.4' 125° 48.0'	33° 24.4' 125° 36.0'	33° 24.4' 125° 24.0'
312			33° 58.5' 126° 06.0'	33° 59.8' 125° 54.0'	34° 01.3' 125° 42.0'	34° 02.6' 125° 30.0'
311					34° 43.0' 125° 43.9'	34° 43.0' 125° 31.9'
310				35° 20.1' 125° 49.3'	35° 20.1' 125° 36.5'	35° 20.1' 125° 24.4'
309		35° 51.3' 126° 14.7'	35° 51.3' 126° 02.0'	35° 51.3' 125° 49.3'	35° 51.3' 125° 37.0'	35° 51.3' 125° 24.4'
308		36° 19.8' 126° 14.4'	36° 19.8' 126° 02.3'	36° 19.8' 125° 50.0'	36° 19.8' 125° 37.0'	36° 19.8' 125° 25.3'
307				36° 56.5' 126° 00.0'	36° 55.5' 125° 37.7'	36° 55.5' 125° 25.0'

06	07	08	09	10	11
38° 12.6'	38° 12.6'				
129° 41.1'	130° 00.0'				
37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'
129° 41.3'	130° 00.0'	130° 18.9'	130° 37.7'	130° 56.5'	131° 15.1'
37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'
129° 41.3'	130° 00.0'	130° 18.7'	130° 37.5'	130° 55.9'	131° 14.6'
37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'
129° 47.6'	130° 00.0'	130° 18.7'	130° 37.6'	130° 56.4'	131° 15.3'
36° 30.3'	36° 30.3'	36° 30.3'	36° 30.3'	36° 30.3'	36° 30.3'
129° 47.3'	130° 00.0'	130° 18.6'	130° 37.3'	130° 55.6'	131° 14.0'
36° 04.6'	36° 04.6'	36° 04.6'	36° 04.6'	36° 04.6'	36° 04.6'
129° 47.8'	130° 00.0'	130° 18.4'	130° 36.9'	130° 55.1'	131° 13.6'
35° 41.3'	35° 36.8'	35° 30.8'	35° 24.4'	35° 17.8'	35° 11.4'
129° 49.0'	130° 00.3'	130° 16.9'	130° 33.5'	130° 50.0'	131° 06.6'
34° 58.2'	34° 52.0'	34° 45.3'	34° 38.9'		
130° 11.9'	130° 20.9'	130° 30.6'	130° 40.5'		

33° 23.8'	33° 09.7'	32° 55.9'
128° 14.3'	128° 21.3'	128° 27.0'
33° 35.8'		
127° 03.2'		

33° 00.0'	33° 00.0'	33° 00.0'	33° 00.0'	33° 00.0'
126° 12.0'	125° 54.0'	125° 36.0'	125° 18.0'	125° 00.0'
33° 24.4'	33° 24.4'	33° 24.4'	33° 24.4'	33° 24.4'
125° 12.0'	125° 00.0'	124° 48.0'	124° 36.0'	124° 24.0'

34° 04.1'	34° 05.5'	34° 05.5'	34° 05.5'	34° 05.5'
125° 18.0'	125° 00.0'	124° 48.0'	124° 36.0'	124° 24.0'
34° 43.0'	34° 43.0'	34° 43.0'	34° 43.0'	34° 43.0'
125° 19.4'	125° 00.0'	124° 47.9'	124° 35.8'	124° 23.4'
35° 20.1'	35° 20.1'	35° 20.1'	35° 20.1'	35° 20.1'
125° 12.1'	125° 00.0'	124° 47.9'	124° 35.6'	124° 23.5'
35° 51.3'	35° 51.3'	35° 51.3'	35° 51.3'	35° 51.3'
125° 12.3'	125° 00.0'	124° 47.8'	124° 35.1'	124° 22.8'
36° 19.8'	36° 19.8'	36° 19.8'	36° 19.8'	36° 19.8'
125° 12.4'	125° 00.0'	124° 47.5'	124° 35.1'	124° 23.0'
36° 55.5'	36° 55.5'	36° 55.5'	36° 55.5'	36° 55.5'
125° 12.5'	125° 00.0'	124° 47.5'	124° 34.8'	124° 22.3'

St. No. Line	12	13	14	15	16	17
107						
106	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	
	131° 34.7'	131° 53.0'	132° 12.2'	132° 30.9'	132° 49.6'	
105	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	
	131° 33.8'	131° 52.2'	132° 11.2'	132° 29.8'	132° 48.4'	
104	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	
	131° 33.8'	131° 52.6'	132° 11.6'	132° 29.5'	132° 47.6'	
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