

ACCE NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200049	291023	C100	0224	2900	29ED		02/23/28	03/02/28	23	201
9200049	291024	C100	0224	2900	29ED		06/05/28	06/14/28	28	234
9200049	291025	C100	0224	2900	29PR		05/12/26	05/23/26	18	172
9200049	291026	C100	0224	2900	29PR		08/17/26	08/21/26	13	102
9200049	291027	C100	0224	2900	29VI		02/01/25	02/01/25	6	49
9200049	291028	C100	0224	2900	29VI		05/02/25	05/02/25	6	49
9200049	291029	C100	0224	2900	29VI		05/13/25	05/17/25	25	231
9200049	291030	C100	0224	2900	29VI		11/13/25	11/21/25	21	188
9200049	291031	C100	0224	2900	29XA		09/14/29	09/16/29	10	70
9200049	291032	C100	0224	2900	29XA		12/02/29	12/03/29	9	66
9200049	291033	C100	0224	2900	29XA		02/26/30	02/27/30	9	73
9200049	291034	C100	0224	2900	29XA		03/11/30	04/07/30	25	137
9200049	291035	C100	0224	2900	29XA		05/23/30	05/26/30	17	161
9200049	291036	C100	0224	2900	29XA		08/20/30	09/14/30	35	308

245

2,041
Records

ACCE NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200049	741557	C100	0224	7400	7499	07/06/75	07/22/75		4	79
9200049	741558	C100	0224	7400	7499	08/05/75	09/11/75		8	142
9200049	741559	C100	0224	7400	7499	09/24/75	10/27/75		8	146
9200049	741560	C100	0224	7400	7499	11/10/75	12/12/75		8	142
9200049	741561	C100	0224	7400	7499	01/02/76	01/02/76		1	20
9200049	741562	C100	0224	7400	7499	01/16/76	02/01/76		4	76
9200049	741563	C100	0224	7400	7499	02/13/76	02/13/76		1	14
9200049	741564	C100	0224	7400	7499	03/06/76	03/17/76		3	47
9200049	741565	C100	0224	7400	7499	03/30/76	04/10/76		3	60
9200049	741566	C100	0224	7400	7499	04/21/76	06/09/76		10	186
9200049	741567	C100	0224	7400	7499	06/19/76	06/21/76		2	40
9200049	741568	C100	0224	7400	7499	07/01/76	07/08/76		3	52
9200049	741569	C100	0224	7400	7499	07/18/76	10/25/76		18	351
9200049	741570	C100	0224	7400	7499	11/05/76	11/25/76		5	98
9200049	741571	C100	0224	7400	7499	12/09/76	12/28/76		5	96
9200049	741572	C100	0224	7400	7499	01/14/77	01/22/77		2	33
9200049	741573	C100	0224	7400	7499	02/04/77	02/18/77		4	75
9200049	741574	C100	0224	7400	7499	03/14/77	03/15/77		2	32
9200049	741575	C100	0224	7400	7499	03/30/77	04/07/77		4	78
9200049	741576	C100	0224	7400	7499	05/09/77	05/22/77		4	80
9200049	741577	C100	0224	7400	7499	06/25/77	08/03/77		7	123
9200049	741578	C100	0224	7400	7499	08/13/77	08/30/77		4	68
9200049	741579	C100	0224	7400	7499	09/12/77	09/21/77		3	60
9200049	741580	C100	0224	7400	7499	10/02/77	10/17/77		4	74
9200049	741581	C100	0224	7400	7499	11/02/77	11/09/77		2	40
9200049	741582	C100	0224	7400	7499	12/08/77	12/19/77		3	59
9200049	741583	C100	0224	7400	7499	01/17/78	02/10/78		5	92
9200049	741585	C100	0224	7400	7499	03/30/78	05/18/78		10	191
9200049	741586	C100	0224	7400	7499	05/30/78	07/05/78		8	152
9200049	741587	C100	0224	7400	7499	07/17/78	09/20/78		12	233
9200049	741588	C100	0224	7400	7499	10/26/78	10/26/78		1	20
9200049	741589	C100	0224	7400	7499	11/09/78	11/09/78		1	15
9200049	741590	C100	0224	7400	7499	11/27/78	12/16/78		4	73
9200049	741591	C100	0224	7400	7499	12/31/78	12/31/78		1	10
9200049	741592	C100	0224	7400	7499	01/11/79	02/07/79		5	90
9200049	741593	C100	0224	7400	7499	03/19/79	03/25/79		2	39
9200049	741594	C100	0224	7400	7499	04/04/79	05/07/79		6	103
9200049	741595	C100	0224	7400	7499	05/29/79	07/04/79		7	130
9200049	741596	C100	0224	7400	7499	07/14/79	07/25/79		3	56
9200049	741597	C100	0224	7400	7499	08/16/79	09/20/79		6	113
9200049	741598	C100	0224	7400	7499	10/02/79	10/02/79		1	14
9200049	741599	C100	0224	7400	7499	10/15/79	10/15/79		1	20
9200049	741600	C100	0224	7400	7499	11/06/79	11/12/79		2	33
9200049	741601	C100	0224	7400	7499	11/26/79	11/26/79		1	17

9200049	741602	C100	0224	7400	7499	12/07/79	12/07/79	1	12
9200049	741603	C100	0224	7400	7499	12/29/79	01/03/80	2	26
9200049	741604	C100	0224	7400	7499	01/14/80	01/30/80	4	67
9200049	741605	C100	0224	7400	7499	02/26/80	03/01/80	2	39
9200049	741606	C100	0224	7400	7499	03/13/80	03/13/80	1	17
9200049	741607	C100	0224	7400	7499	04/16/80	09/16/80	24	397
9200049	741608	C100	0224	7400	7499	11/10/80	12/03/80	5	85
9200049	741609	C100	0224	7400	7499	01/15/81	01/22/81	2	17
9200049	741610	C100	0224	7400	7499	02/09/81	04/10/81	12	180
9200049	741611	C100	0224	7400	7499	04/25/81	05/17/81	6	93
9200049	741612	C100	0224	7400	7499	05/27/81	06/09/81	3	36
9200049	741613	C100	0224	7400	7499	07/29/81	08/20/81	4	51
9200049	741615	C100	0224	7400	7499	10/05/81	10/21/81	4	44
9200049	741616	C100	0224	7400	7499	11/02/81	11/02/81	1	17
9200049	741617	C100	0224	7400	7499	11/19/81	12/01/81	3	28
9200049	741618	C100	0224	7400	7499	12/11/81	12/15/81	2	26
9200049	741619	C100	0224	7400	7499	12/31/81	01/07/82	2	20
9200049	741620	C100	0224	7400	7499	04/10/82	04/17/82	2	26
9200049	741621	C100	0224	7400	7499	06/05/82	06/23/82	5	62
9200049	741622	C100	0224	7400	7499	07/26/82	08/20/82	8	135
9200049	741623	C100	0224	7400	7499	09/27/82	10/14/82	6	86
9200049	741624	C100	0224	7400	7499	03/09/83	03/18/83	3	38
9200049	741625	C100	0224	7400	7499	04/01/83	04/01/83	1	13
9200049	741626	C100	0224	7400	7499	05/02/83	05/27/83	9	117
9200049	741627	C100	0224	7400	7499	06/27/83	07/21/83	8	103
9200049	741628	C100	0224	7400	7499	12/16/83	12/23/83	2	25
9200049	741629	C100	0224	7400	7499	01/23/84	01/23/84	1	18
9200049	741630	C100	0224	7400	7499	02/20/84	03/01/84	5	70
9200049	741631	C100	0224	7400	7499	04/06/84	04/23/84	5	74
9200049	741632	C100	0224	7400	7499	05/28/84	06/18/84	6	90
9200049	741633	C100	0224	7400	7499	07/23/84	08/15/84	4	69
9200049	741635	C100	0224	7400	7499	10/11/84	10/17/84	2	31
9200049	741636	C100	0224	7400	7499	12/04/84	12/04/84	1	17
9200049	741637	C100	0224	7400	7499	03/13/85	03/27/85	3	53
9200049	741638	C100	0224	7400	7499	05/13/85	05/26/85	3	53
9200049	741639	C100	0224	7400	7499	07/02/85	07/08/85	2	20
9200049	741640	C100	0224	7400	7499	07/22/85	07/22/85	1	15
9200049	741641	C100	0224	7400	7499	08/29/85	08/29/85	1	17
9200049	741642	C100	0224	7400	7499	10/30/85	10/30/85	1	18
9200049	741643	C100	0224	7400	7499	02/24/86	02/24/86	1	17
9200049	741644	C100	0224	7400	7499	04/02/86	04/11/86	2	34
9200049	741645	C100	0224	7400	7499	05/01/86	05/15/86	3	51
9200049	741646	C100	0224	7400	7499	06/09/86	06/09/86	1	17
9200049	741647	C100	0224	7400	7499	06/22/86	06/22/86	1	16
9200049	741648	C100	0224	7400	7499	07/23/86	07/23/86	1	14
9200049	741649	C100	0224	7400	7499	08/17/86	08/24/86	2	33
9200049	741650	C100	0224	7400	7499	09/03/86	09/03/86	1	16
9200049	741651	C100	0224	7400	7499	10/02/86	10/02/86	1	17
9200049	741652	C100	0224	7400	7499	10/31/86	10/31/86	1	16

9200049	741653	C100	0224	7400	7499	11/11/86	11/11/86	1	17
9200049	741655	C100	0224	7400	7499	11/21/88	11/30/88	3	41
9200049	741656	C100	0224	7400	7499	12/24/88	12/24/88	1	26
9200049	741657	C100	0224	7400	7499	01/25/89	02/08/89	3	28
9200049	741658	C100	0224	7400	7499	08/27/89	10/10/89	15	287
9200049	741659	C100	0224	7400	7499	10/26/89	10/28/89	2	33
9200049	741660	C100	0224	7400	7499	11/09/89	11/29/89	12	232
9200049	741661	C100	0224	7400	7499	12/10/89	01/03/90	7	145
9200049	741662	C100	0224	7400	7499	01/29/90	02/03/90	3	52
9200049	741663	C100	0224	7400	7499	03/31/90	04/07/90	4	83
9200049	741665	C100	0224	7400	7499	05/02/90	05/23/90	12	234

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432 7,386

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200049	907349	C100	0224	9000	9099		09/11/83	09/11/83	1	8
9200049	907350	C100	0224	9000	9099		11/15/84	11/15/84	2	18
9200049	907351	C100	0224	9000	9099		12/29/84	12/29/84	2	13
9200049	907352	C100	0224	9000	9099		01/21/85	02/22/85	76	539
9200049	907353	C100	0224	9000	9099		03/25/85	03/25/85	1	8
9200049	907354	C100	0224	9000	9099		07/11/85	07/11/85	2	19
9200049	907355	C100	0224	9000	9099		07/23/85	07/23/85	1	8
9200049	907356	C100	0224	9000	9099		10/19/85	10/19/85	2	16
9200049	907357	C100	0224	9000	9099		11/20/85	11/20/85	1	7
9200049	907358	C100	0224	9000	9099		02/04/86	02/04/86	1	11
9200049	907359	C100	0224	9000	9099		04/01/86	04/05/86	4	35
9200049	907360	C100	0224	9000	9099		04/17/86	05/04/86	24	254
9200049	907361	C100	0224	9000	9099		05/14/86	05/15/86	2	21
9200049	907362	C100	0224	9000	9099		09/17/86	09/17/86	1	10
9200049	907363	C100	0224	9000	9099		12/29/86	12/29/86	1	9
9200049	907364	C100	0224	9000	9099		03/29/87	05/11/87	113	1,102
9200049	907365	C100	0224	9000	9099		06/04/87	06/04/87	1	12
9200049	907366	C100	0224	9000	9099		06/25/87	06/25/87	2	18
9200049	907367	C100	0224	9000	9099		11/06/87	11/07/87	2	15
9200049	907368	C100	0224	9000	9099		01/02/89	04/05/89	101	904
9200049	907369	C100	0224	9000	9099		04/26/89	01/27/90	552	5,051
9200049	907370	C100	0224	9000	9099		02/06/90	04/02/90	91	731

1171

10,585

ACCESSION NO. 9200049 FILETYPE C100

TRACK NO. _____

PROJECT IDENTIFICATION _____

ICES

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE DISKETTES	3-9-92	FJM	3 DISKETTES	3	80	512	
DUPLICATE TAPE DAMUS	3-13-92	↓	3 FILES *	3	↓	224	
REFORMATTED TAPE							
REFORMATTED DISK	10/8/92	MRP	See below				
FIRST MULCHEK			L88923				
FINAL MULCHEK			ICES RUSSIAN				
MPD75 OR F022			WS1898				
			ICES BRIT				
			W65386				
			ICES SPAIN				
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR →

*** OWS CCC. - 8879 = ~~W65386~~**
OWS LLL. - 8217 =
SPANISH DAT. - 2041 = ~~W65386~~

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

19,137

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

9200049

March 5, 1992
NODC/NOAA (E/OC23)
Universal Building, South
1825 Connecticut Ave., N.W.
Washington, D.C.
20235

Phone : 202-606-4411
FAX : 202-606-4586
OMNET : S.LEVITUS

To : Tony Picciolo, Irv Perlroth, Ron Fauquet, Bob Gelfeld
Doug Hamilton, Mary Lewis, B. Stein, Mitch

From : Syd Levitus

Subject: Data submission to OC1

Enlosed are three diskettes containing data from Harry Dooley of ICES that are being submitted for processing to OC1:

Diskette 1: OWS "L" data for 1948-1990

Diskette 2: OWS "C" data for 1983-1990

Diskette 3: Atlantic Slope Experiment Data of Spanish origin for 1925-1930.

Also enclosed is a recent (September, 1991) write-up of the ICES data format. Please note that changes have been made to the ICES format from that which was documented in the 1979 ICES report.

Path: M:\

File: C7C-8390.SUM

786 3-03-92 2:51:44 am

Page 1

FILE SUMMARY - 01-07-1992

FILE NAME:-

c7c-8390.ice

Cou	Ship	St Number	Dates	No of:03	56	P6	02	Start Number
C7	C	-	9830911-9830911	1	0	0	0	1 8
C7	C	-	9841115-9841229	4	0	0	0	9 31
C7	C	-	9850121-9851120	83	0	0	0	40 597
C7	C	-	9860204-9861229	33	0	0	0	637 340
C7	C	-	9870329-9871107	118	0	0	0	977 1148
C7	C	-	9890102-9891227	632	0	0	0	2125 5835
C7	C	-	9900105-9900402	112	0	0	0	7960 920
Total				983	0	0	0	

FILE SUMMARY - 01-08-1992

NAME:-

11.11.11

Cou	Ship	St Number	Dates	No of:03	56	P6	02	Start Number
35	53	0001-0016	9480823-9481230	16	0	0	0	1 124
35	53	0001-0014	9490103-9490521	14	0	0	0	125 102
74	53	0001-0028	9750706-9751212	28	0	0	0	227 509
74	53	0001-0055	9760102-9761228	55	0	0	0	736 1040
74	53	0001-0039	9770114-9771219	39	0	0	0	1776 722
74	53	0001-0045	9780117-9781231	45	0	0	0	2498 832
74	53	0001-0036	9790111-9791229	36	0	0	0	3330 646
74	53	0001-0037	9800103-9801203	37	0	0	0	3976 612
74	53	0001-0018	9810115-9810309	9	0	0	0	4588 114
74	53	0012-0015	9810316-9810401	4	0	0	0	4702 70
74	53	0009-0047	9810410-9810527	8	0	0	0	4772 122
74	53	0016-0042	9810602-9811013	10	0	0	0	4894 115
74	53	0030-0031	9811021-9811102	2	0	0	0	5009 30
74	53	0028-0048	9811119-9811231	6	0	0	0	5039 61
64	53	0001-0017	9820119-9821108	17	0	0	0	5100 203
74	53	0001-0022	9820107-9821014	22	0	0	0	5303 322
64	53	0001-0017	9830210-9831205	17	0	0	0	5625 202
74	53	0023-0043	9830309-9830721	21	0	0	0	5827 271
74	53	0001-0002	9831216-9831223	2	0	0	0	6098 25
74	53	0001-0005	9840123-9840301	6	0	0	0	6123 88
74	53	0001-0019	9840406-9840618	11	0	0	0	6211 164
74	53	0001-0004	9840723-9840815	4	0	0	0	6375 69
74	53	0001-0003	9841001-9841017	3	0	0	0	6444 44
74	53	0001-0001	9841204-9841204	1	0	0	0	6488 17
74	53	0002-0012	9850313-9851030	11	0	0	0	6505 176
74	53	0013-0015	9860224-9860411	3	0	0	0	6681 51
74	53	0003-0003	9860501-9860501	1	0	0	0	6732 17
74	53	0002-0002	9860508-9860508	1	0	0	0	6749 17
74	53	0001-0012	9860515-9860723	4	0	0	0	6766 64
74	53	0006-0011	9860817-9861111	6	0	0	0	6830 99
74	53	0001-0009	9881010-9881224	9	0	0	0	6929 154
74	53	0001-0036	9890125-9891227	36	0	0	0	7083 674
74	53	0001-0026	9900101-9900523	25	0	0	0	7757 461
Total				509	0	0	0	

ICES

Oceanographic Data Centre

Data Exchange Formats

Introduction

The following pages provide a detailed description of the formats used by ICES for the exchange of oceanographic (water bottle or CTD) station data. Submitters of data should, if at all possible, use either of the formats described here. Receivers of data from ICES will receive it in only the first described format, the ICES Oceanographic 'punch card' format but software is normally supplied with any request to help the user read data sets prepared in this format, including an export facility to data bases and spreadsheets. The user should note that this format has been modified from that published by ICES in 1979 in several important respects. In particular provision was made to include position information to .01 of a degree, and time to the nearest minute. Other changes include a re-definition of the > (greater than) overpunch in the nutrient fields (type '56' chemistry record was replaced by type '76') and record type 'P6' was introduced to accommodate the very high nutrient levels reported from some coastal regions. In both of these record types chlorophyll 'a' is stored to only one decimal place (the '56' record type was 2 decimal places).

The second format, Blueprint '86, which utilises some of the features of IOC's GF3 format, is now used by a number of institutes, and is also the format produced by ICES's PC data entry utility ENTICE.

Harry Dooley
ICES Hydrographer
September, 1991

ICES

Oceanographic ‘punch card’ format

Oceanographic 'punch card' format

HYDROMASTER RECORD

Position 79-80 = "0J"

Position	Parameter	Description
01-02	Country	Coded according to IOC country codes.
03-04	Ship	Coded as either ICES code (purely numerical code see ICES ships code list) or as NODC ship code (alphanumeric code).
05-08	Station No.	Station number within a given year start counting one at the 1 Jan 0000 Hrs UTC.
09-12	Latitude	Geographical latitude in degrees and minutes (decimals given later).
13-17	Longitude	Geographical longitude in degrees and minutes (decimals given later).
18	Quadrant	Indicator of quadrant on globe: 0 = Latitude North Longitude East 1 = Latitude North Longitude West 2 = Latitude South Longitude East 3 = Latitude South Longitude West 0° Latitude is defined as being North 0° Longitude is defined as being East 180° Longitude is defined as being West North, South relative to the equator East, West relative to Greenwich meridian
19-21	Year	Number of the year - 1000
22-23	Month	Number of the month within a year
24-25	Day	Number of the day within a month
26-27	Time	Starting time of hydrographic station in UTC (minutes given later).
28-31	Depth	Corrected depth to bottom in meters
32-45	None	Reserved
46-64	None	No longer actively used
65-66	Latitude ct'd	Decimals of Latitude minutes
67-68	Longitude ct'd	Decimals of Longitude minutes
69-70	Time ct'd	Minutes of time
71-78	None	Reserved
79	Indicator	Always "O" (<Null>)
80	Record Type	Always "J" (<Juliett>)

Oceanographic 'punch card' format

HYDROGRAPHY RECORD

Position 79-80 = "03"

Position	Parameter	Description
01-27	Parameter	Copy of contents of positions 01-27 in the Hydromaster record.
28-31	Depth	Depth in decibar no implied decimals
32-34	Temperature	Temperature Given in degree Celsius 2 implied decimal places Negative temperatures are indicated by "-" (<Closing Brace>)
35-40	Salinity	Salinity given in PSS 78 scale 3 implied decimals
41-57	None	Reserved for derived quantities
58-60	Oxygen	Oxygen contents Given in $\text{cm}^3 \text{O}_2 / \text{dm}^3 \text{water}$ at STP 2 implied decimals
61-64	None	Reserved for derived quantities
65-76	None	Reserved
77	Method	Method of salinity determination 1 = Titration by routine method 2 = Titration by special precision method 3 = Conductivity method precision ≤ 0.01 4 = Conductivity method precision > 0.01
78	None	Not used any longer
79	Indicator	Indicator for interpolation with depth 0 = No interpolation, T and S observed 1 = Both T and S have been interpolated 8 = T has been interpolated, S observed 9 = T has been observed, S interpolated
80	Record type	Always "3" (<Three>)

Oceanographic 'punch card' format

HYDROCHEMISTRY RECORD

Position 79-80 = "76"

*Position 79-80 = "P6"

Position	Parameter	Description
01-27	Parameter	Copy of contents of positions 01-27 in the Hydromaster record.
28-31	Depth	Depth in decibar no implied decimals actual depth in decibar
32-34	Temperature	Temperature Given in degree Celsius 2 implied decimal places Negative temperatures are indicated by "}" (<Closing Brace>)
35-39	Salinity	Salinity given in PSS 78 scale 2 implied decimals
40-42	Oxygen	Oxygen contents Given in $\text{cm}^3 \text{O}_2 / \text{dm}^3 \text{water}$ at STP 2 implied decimals
43-45	Phosphate	Phosphate phosphorus Given in μM 2 implied decimals (* 1 implied decimal)
46-48	Tot.Phosphorus	Total Phosphorus contents Given in μM 2 implied decimals (* 1 implied decimal)
49-51	Silicate	Silicate contents (Silicate Silicon) Given in μM 1 implied decimal (* 0 implied decimal)
52-54	Nitrate	Nitrate contents (Nitrate Nitrogen) Given in μM 1 implied decimal (* 0 implied decimal)
55-57	Nitrite	Nitrite contents (Nitrite Nitrogen) Given in μM 2 implied decimals (* 1 implied decimal)
58-60	Ammonium	Ammonium contents (Ammonium Nitrogen) Given in μM 1 implied decimal (* 0 implied decimal)
61-63	Tot. Nitrogen	Total nitrogen contents Given in μM 1 implied decimal (* 0 implied decimal)
64-66	Hydrog. Sulph.	Hydrogen Sulphide contents (Sulphide Sulphur) Given in μM 1 implied decimal

Oceanographic 'punch card' format

67-69	pH	Hydrogen ion concentration in situ 2 implied decimals
70-73	Alkalinity	Alkalinity Given in millival/dm ³ water at 20°C 3 implied decimals
74-76	Chlorophyll <u>a</u>	Chlorophyll <u>a</u> Given in µg/dm ³ water at 20°C 1 implied decimal
77-78	None	Reserved
79	Indicator	Always "7" (<Seven>) (or "P")
80	Record type	Always "6" (<Six>)

If nitrate is not reported, but nitrate is then the value in the nitrate field is assumed to represent nitrate + nitrite.

Oceanographic 'punch card' format

General Rule for Coding Data into Fields

All fields for which a value is given should be "O" (<Null>) filled to the left, fields where no value is given must be left blank. If within a field the rightmost positions are left blank, it is assumed that the measurement accuracy did not allow determination of this decimal position; e.g. Temperature measured is 2.3°C the Temperature field given "023" (<Null>), <Two>, <Three>, <blank>).

Coding of values too big for Field Width and Qualifiers

In all chemistry fields, including the oxygen field in the hydrographic record, a provision is made to accommodate values which are too big for the field width provided. In case the e.g. oxygen exceeds the value of 9.99 cm³/dm³ you have to subtract 10.00 from the value observed, enter this new value and recode the first digit of the field according to Table 1. The value of 19.99 is used to indicate a value out of range, coded as "R99" (<Romeo>, <Nine>, <Nine>). Hence the highest value which can be reported is for oxygen 19.98 cm³/dm³. For substances which are reported to only 1 decimal place, e.g. nitrate these numbers are 199.9 and 199.8 respectively.

If the value found seems unrealistic you recode the second digit in the field according to Table 1.

If there are traces found below the threshold of the reporting format (< 0.01 or < 0.1 respectively) you code "00}" (<Null>, <Null>, <Closing Brace>).

If for some reason the value can be observed only as being below a certain threshold, this threshold value is given and the last digit is recoded according to Table 2.

The recoding according to Table 1 of the second digit within a field applied as well to T and S in the hydrographic records, indicating questionable values.

All this is known as "overpunching" from the ICES punch card format.

Oceanographic 'punch card' format

Table 1	
0	}
1	J
2	K
3	L
4	M
5	N
6	O
7	P
8	Q
9	R

Table 2	
0	{
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I

The left columns in Tables 1 and 2 show the digits to be recoded, the right columns the replacement characters.

TABLE 3								
Char	ASCII Value	EBCDIC Value	Char	ASCII Value	EBCDIC Value	Char	ASCII Value	EBCDIC Value
blank	32	064						
0	48	240	}	125	208	{	123	192
1	49	241	J	74	209	A	65	193
2	50	242	K	75	210	B	66	194
3	51	243	L	76	211	C	67	195
4	52	244	M	77	212	D	68	196
5	53	245	N	78	213	E	69	197
6	54	246	O	79	214	F	70	198
7	55	247	P	80	215	G	71	199
8	56	248	Q	81	216	H	72	200
9	57	249	R	82	217	I	73	201

Table 3 shows the representation of characters used in ICES format in terms of the positions of the characters in the collating sequences of both the ASCII and EBCDIC character sets.

ICES

Blueprint '86 format

ICES Blueprint Format

Background

In order to unify data format structures being transmitted to the ICES Oceanographic data centre, the ICES Blueprint Format was conceived. To date several institutes are using this framework, and in the case of one of them, it is being used as an archive format. The structure described here is for use with hydro-chemistry and CTD data station data. The requirements of different data set types are met by a simple modification of the parameter definition record. Biological data sets which contain taxonomic coding information are simply absorbed into this format by regarding the taxonomic code as a parameter type.

The Format has three hierarchies, though in theory many more are possible depending on how parameters are defined. As far as possible compatibility with the Internationally approved exchange format GF3, has been sought. As a result the same parameter coding system is used and there are many similarities between the GF3 hierarchical structure and Blueprint. Because Blueprint compacts data to a much greater extent than does GF3, data written in Blueprint can quite conveniently be transferred using floppy diskettes. Because Blueprint preserves a fixed record structure, magnetic tape transfer is of course as equally convenient. Blueprint has not been designed as an alternative to GF3. It merely provides a easier way to transfer the multi-parameter data sets with which ICES normally deals, and which cannot economically be converted into GF3.

A brief explanation of the 3 levels of Blueprint is as follows (templates for each of these levels are attached).

Level 1: Parameter Definition Record

The Parameter Definition Record template presented overleaf refers specifically to one that would be used for water bottle type station data. Whereas GF3 has subsets developed for the commonest types of data sets, Blueprint has a Parameter Definition Record. Normally this record(s) is placed at the start of the data file, though new definitions are possible at any time. The essential point of this record is to enable the user to define a "link" between a parameter, as defined by its GF3 parameter code, and its value as given in a data record (see below). The parameter referred to as a "Link code" in the template is a user defined alphanumeric code; in practice users tend to prefer a purely numeric code and are encouraged to do so. By defining the link code in this way, it is possible to define a station with several thousand different parameters.

Level 2: Station Information Record

This is rigidly specified in order to ensure that the user provides essential information concerning the station (GF3 does this also). At present, for want of anything better, the existing ICES Hydromaster record (type 0J) is used.

Level 3: Data Record

This part of the structure is common for all data set (Parameter definition record) types. Here all data values are identified by associating each with the user-defined "link code" given in the parameter definition record. Thus for a data set of hydrographic stations at which

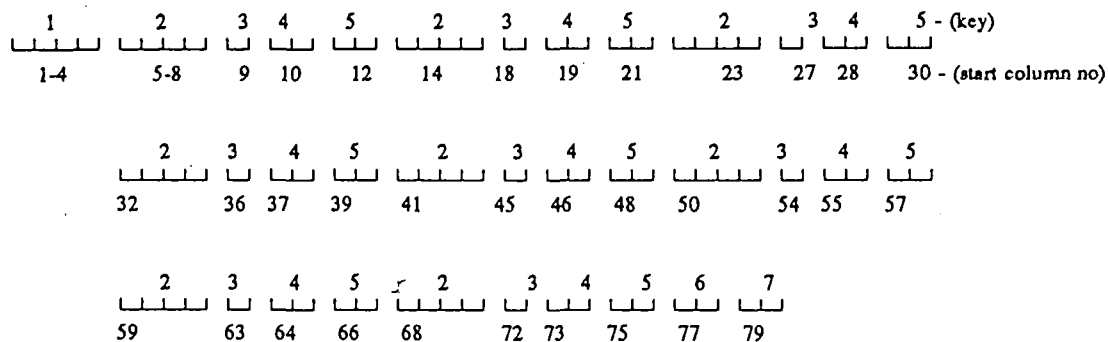
Blueprint '86 format

phosphate and oxygen were also collected, it will be necessary to define link codes in the definition record for depth, temperature, salinity, phosphate and oxygen. Values of each of these parameters will then be recorded in the Data Record alongside the corresponding link code. Depth will define the cycle, the other parameters can be recorded in any order, or omitted in the case of no observation of it at the particular depth. Thus the format is particularly economical in use for those data sets that contain a very variable number of measured parameters from station to station and depth to depth.

Blueprint '86 format

ICES Blueprint Format - Template for hydro-chemistry/CTD Data

(A) PARAMETER DEFINITION RECORD (Hydro/chemistry version)

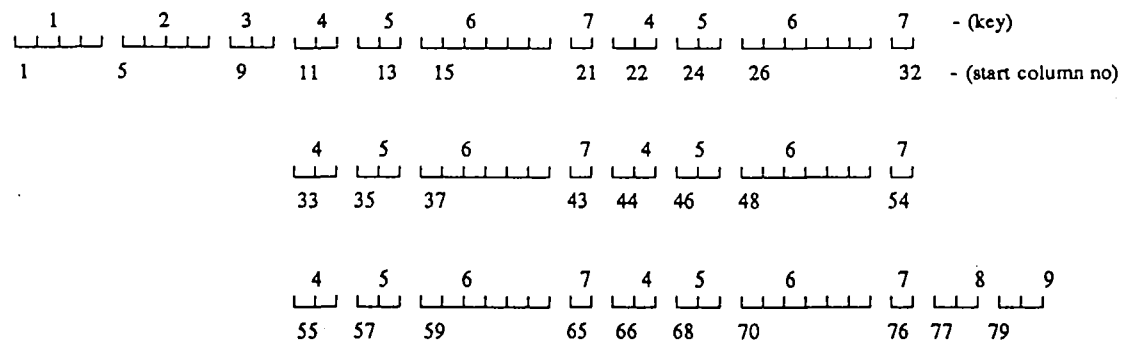


Key:

- | | |
|----------------------|------------------------|
| 1 For originator use | 2 'GF3' parameter code |
| 3 Units flag (GF3) | 4 Method identifier |
| 5 Link code | 6 For originator use |
| 7 Record code (02) | |

(B) STATION INFORMATION RECORD - as for ICES format Master record.

(C) DATA RECORD



Key:

- | | |
|--|------------------------------------|
| 1 For originator use | 2 Station/sequence no. |
| 3 Year | 4 Link code (cf Definition record) |
| 5 Qualifer (quality flag + < > indicators) | |
| 6 Value (6 figures, right justified) | |
| 7 Number of decimal place in value | |
| 8 For originator use. | |
| 9 Record type (10) | |

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
-----	-----	-----	-----	-----	-----	-----	-----	-----
9200049	C100	291023	0224	2900	29ED	1928/02/23	NULL	204951
9200049	C100	291024	0224	2900	29ED	1928/06/05	NULL	204952
9200049	C100	291025	0224	2900	29PR	1926/05/12	NULL	204953
9200049	C100	291026	0224	2900	29PR	1926/08/17	NULL	204954
9200049	C100	291027	0224	2900	29VI	1925/02/01	NULL	204955
9200049	C100	291028	0224	2900	29VI	1925/05/02	NULL	204956
9200049	C100	291029	0224	2900	29VI	1925/05/13	NULL	204957
9200049	C100	291030	0224	2900	29VI	1925/11/13	NULL	204958
9200049	C100	291031	0224	2900	29XA	1929/09/14	NULL	494385
9200049	C100	291032	0224	2900	29XA	1929/12/02	NULL	494386
9200049	C100	291033	0224	2900	29XA	1930/02/26	NULL	494387
9200049	C100	291034	0224	2900	29XA	1930/03/11	NULL	494388
9200049	C100	291035	0224	2900	29XA	1930/05/23	NULL	494389
9200049	C100	291036	0224	2900	29XA	1930/08/20	NULL	494390
9200049	C100	741557	0224	7400	7499	1975/07/06	NULL	204959
9200049	C100	741558	0224	7400	7499	1975/08/05	NULL	204960
9200049	C100	741559	0224	7400	7499	1975/09/24	NULL	204961
9200049	C100	741560	0224	7400	7499	1975/11/10	NULL	204962
9200049	C100	741561	0224	7400	7499	1976/01/02	NULL	204963
9200049	C100	741562	0224	7400	7499	1976/01/16	NULL	204964
9200049	C100	741563	0224	7400	7499	1976/02/13	NULL	204965
9200049	C100	741564	0224	7400	7499	1976/03/06	NULL	204966
9200049	C100	741565	0224	7400	7499	1976/03/30	NULL	204967
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9200049	C100	741567	0224	7400	7499	1976/06/19	NULL	204969
9200049	C100	741568	0224	7400	7499	1976/07/01	NULL	204970
9200049	C100	741569	0224	7400	7499	1976/07/18	NULL	204971
9200049	C100	741570	0224	7400	7499	1976/11/05	NULL	204972
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9200049	C100	741574	0224	7400	7499	1977/03/14	NULL	204976
9200049	C100	741575	0224	7400	7499	1977/03/30	NULL	204977
9200049	C100	741576	0224	7400	7499	1977/05/09	NULL	204978
9200049	C100	741577	0224	7400	7499	1977/06/25	NULL	204979
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9200049	C100	741582	0224	7400	7499	1977/12/08	NULL	204984
9200049	C100	741583	0224	7400	7499	1978/01/17	NULL	204985
9200049	C100	741585	0224	7400	7499	1978/03/30	NULL	204986
9200049	C100	741586	0224	7400	7499	1978/05/30	NULL	204987
9200049	C100	741587	0224	7400	7499	1978/07/17	NULL	204988
9200049	C100	741588	0224	7400	7499	1978/10/26	NULL	204989
9200049	C100	741589	0224	7400	7499	1978/11/09	NULL	204990
9200049	C100	741590	0224	7400	7499	1978/11/27	NULL	204991
9200049	C100	741591	0224	7400	7499	1978/12/31	NULL	204992
9200049	C100	741592	0224	7400	7499	1979/01/11	NULL	204993
9200049	C100	741593	0224	7400	7499	1979/03/19	NULL	204994
9200049	C100	741594	0224	7400	7499	1979/04/04	NULL	204995
9200049	C100	741595	0224	7400	7499	1979/05/29	NULL	204996
9200049	C100	741596	0224	7400	7499	1979/07/14	NULL	204997
9200049	C100	741597	0224	7400	7499	1979/08/16	NULL	204998
9200049	C100	741598	0224	7400	7499	1979/10/02	NULL	204999
9200049	C100	741599	0224	7400	7499	1979/10/15	NULL	205000

9200049	C100	741600	0224	7400	7499	1979/11/06	NULL	205001
9200049	C100	741601	0224	7400	7499	1979/11/26	NULL	205002
9200049	C100	741602	0224	7400	7499	1979/12/07	NULL	205003
9200049	C100	741603	0224	7400	7499	1979/12/29	NULL	205004
9200049	C100	741604	0224	7400	7499	1980/01/14	NULL	205005
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9200049	C100	741607	0224	7400	7499	1980/04/16	NULL	205008
9200049	C100	741608	0224	7400	7499	1980/11/10	NULL	205009
9200049	C100	741609	0224	7400	7499	1981/01/15	NULL	205010
9200049	C100	741610	0224	7400	7499	1981/02/09	NULL	205011
9200049	C100	741611	0224	7400	7499	1981/04/25	NULL	205012
9200049	C100	741612	0224	7400	7499	1981/05/27	NULL	205013
9200049	C100	741613	0224	7400	7499	1981/07/29	NULL	205014
9200049	C100	741615	0224	7400	7499	1981/10/05	NULL	205015
9200049	C100	741616	0224	7400	7499	1981/11/02	NULL	205016
9200049	C100	741617	0224	7400	7499	1981/11/19	NULL	205017
9200049	C100	741618	0224	7400	7499	1981/12/11	NULL	205018
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9200049	C100	741622	0224	7400	7499	1982/07/26	NULL	205022
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9200049	C100	741647	0224	7400	7499	1986/06/22	NULL	205046
9200049	C100	741648	0224	7400	7499	1986/07/23	NULL	205047
9200049	C100	741649	0224	7400	7499	1986/08/17	NULL	205048
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9200049	C100	741656	0224	7400	7499	1988/12/24	NULL	205054
9200049	C100	741657	0224	7400	7499	1989/01/25	NULL	205055
9200049	C100	741658	0224	7400	7499	1989/08/27	NULL	205056
9200049	C100	741659	0224	7400	7499	1989/10/26	NULL	205057
9200049	C100	741660	0224	7400	7499	1989/11/09	NULL	205058
9200049	C100	741661	0224	7400	7499	1989/12/10	NULL	205059
9200049	C100	741662	0224	7400	7499	1990/01/29	NULL	205060

9200049	C100	741663	0224	7400	7499	1990/03/31	NULL	205061
9200049	C100	741665	0224	7400	7499	1990/05/02	NULL	205062
9200049	C100	907349	0224	9000	9099	1983/09/11	NULL	205063
9200049	C100	907350	0224	9000	9099	1984/11/15	NULL	205064
9200049	C100	907351	0224	9000	9099	1984/12/29	NULL	205065
9200049	C100	907352	0224	9000	9099	1985/01/21	NULL	205066
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9200049	C100	907360	0224	9000	9099	1986/04/17	NULL	205074
9200049	C100	907361	0224	9000	9099	1986/05/14	NULL	205075
9200049	C100	907362	0224	9000	9099	1986/09/17	NULL	205076
9200049	C100	907363	0224	9000	9099	1986/12/29	NULL	205077
9200049	C100	907364	0224	9000	9099	1987/03/29	NULL	205078
9200049	C100	907365	0224	9000	9099	1987/06/04	NULL	205079
9200049	C100	907366	0224	9000	9099	1987/06/25	NULL	205080
9200049	C100	907367	0224	9000	9099	1987/11/06	NULL	205081
9200049	C100	907368	0224	9000	9099	1989/01/02	NULL	205082
9200049	C100	907369	0224	9000	9099	1989/05/04	NULL	205083
9200049	C100	907370	0224	9000	9099	1990/02/06	NULL	205084

(140 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
9200049	C100	291023	29ED	23	NULL	28/02/23	28/03/02
9200049	C100	291024	29ED	28	NULL	28/06/05	28/06/14
9200049	C100	291025	29PR	18	NULL	26/05/12	26/05/23
9200049	C100	291026	29PR	13	NULL	26/08/17	26/08/21
9200049	C100	291027	29VI	6	NULL	25/02/01	25/02/01
9200049	C100	291028	29VI	6	NULL	25/05/02	25/05/02
9200049	C100	291029	29VI	25	NULL	25/05/13	25/05/17
9200049	C100	291030	29VI	21	NULL	25/11/13	25/11/21
9200049	C100	291031	29XA	10	70	29/09/14	29/09/16
9200049	C100	291032	29XA	9	66	29/12/02	29/12/03
9200049	C100	291033	29XA	9	73	30/02/26	30/02/27
9200049	C100	291034	29XA	25	137	30/03/11	30/04/07
9200049	C100	291035	29XA	17	161	30/05/23	30/05/26
9200049	C100	291036	29XA	35	308	30/08/20	30/09/14
9200049	C100	741557	7499	4	NULL	75/07/06	75/07/22
9200049	C100	741558	7499	8	NULL	75/08/05	75/09/11
9200049	C100	741559	7499	8	NULL	75/09/24	75/10/27
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9200049	C100	741572	7499	2	NULL	77/01/14	77/01/22
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9200049	C100	741575	7499	4	NULL	77/03/30	77/04/07
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9200049	C100	741579	7499	3	NULL	77/09/12	77/09/21
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9200049	C100	741586	7499	8	NULL	78/05/30	78/07/05
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9200049	C100	741602	7499	1	NULL	79/12/07	79/12/07
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9200049	C100	741605	7499	2	NULL	80/02/26	80/03/01
9200049	C100	741606	7499	1	NULL	80/03/13	80/03/13
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9200049	C100	741609	7499	2	NULL	81/01/15	81/01/22
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9200049	C100	741641	7499	1	NULL	85/08/29	85/08/29
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9200049	C100	741643	7499	1	NULL	86/02/24	86/02/24
9200049	C100	741644	7499	2	NULL	86/04/02	86/04/11
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9200049	C100	741648	7499	1	NULL	86/07/23	86/07/23
9200049	C100	741649	7499	2	NULL	86/08/17	86/08/24
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9200049	C100	741651	7499	1	NULL	86/10/02	86/10/02
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9200049	C100	741655	7499	3	NULL	88/11/21	88/11/30
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9200049	C100	741658	7499	15	NULL	89/08/27	89/10/10
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9200049	C100	741660	7499	12	NULL	89/11/09	89/11/29
9200049	C100	741661	7499	7	NULL	89/12/10	90/01/03
9200049	C100	741662	7499	3	NULL	90/01/29	90/02/03

9200049	C100	741663	7499	4	NULL	90/03/31	90/04/07
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9200049	C100	907349	9099	1	1	83/09/11	83/09/11
9200049	C100	907350	9099	2	2	84/11/15	84/11/15
9200049	C100	907351	9099	2	2	84/12/29	84/12/29
9200049	C100	907352	9099	76	76	85/01/21	85/02/22
9200049	C100	907353	9099	1	1	85/03/25	85/03/25
9200049	C100	907354	9099	2	2	85/07/11	85/07/11
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9200049	C100	907356	9099	2	2	85/10/19	85/10/19
9200049	C100	907357	9099	1	1	85/11/20	85/11/20
9200049	C100	907358	9099	1	1	86/02/04	86/02/04
9200049	C100	907359	9099	4	4	86/04/01	86/04/05
9200049	C100	907360	9099	24	24	86/04/17	86/05/04
9200049	C100	907361	9099	2	2	86/05/14	86/05/15
9200049	C100	907362	9099	1	1	86/09/17	86/09/17
9200049	C100	907363	9099	1	1	86/12/29	86/12/29
9200049	C100	907364	9099	113	113	87/03/29	87/05/11
9200049	C100	907365	9099	1	1	87/06/04	87/06/04
9200049	C100	907366	9099	2	2	87/06/25	87/06/25
9200049	C100	907367	9099	2	2	87/11/06	87/11/07
9200049	C100	907368	9099	101	101	89/01/02	89/04/05
9200049	C100	907369	9099	552	519	89/05/04	90/01/27
9200049	C100	907370	9099	91	87	90/02/06	90/04/02

(140 rows affected)