Special Coues

Water Physics and Chemistry

NAVIGATION

Ol = Loran (mixed or unspecified)

02 = Radar and/or fixes

03 = Raydist without complications

04 = Raydist with errors, drifting, etc.

05 = Satellite

06 = Omega

07 = Loran A only

08 = Loran C only

TURBIDITY CODE

l = Turbidometer; in JTU

2 = Transmissometer; in percent of light transmission over a 10 cm.

3 = Flourometer; suspended solids calibration

METHOD CODE

l== STD (Salinity, Temperature, and Depth recorder)

2 = XBT (Expendable Bathythermograph)

3 = Nansen Cast

4 = MBT (Mechanical Bathythermograph)

NODC COUNTRY-CRUISE REFERENCE NO. 68-0201 , WRITER LWA

DATE

CODING INSTRUCTIONS

CHECKED	ВУ	DATE	; APPROVED BY	DATE
SOURCE MATER	IAL (AUTHOR, TITI	LE, VOLUME, PAI	RT, PAGE, ETC.)	
for Puget S ington. Th (cruises). cruise. NO See supplem nator's Cr. Operation.	ound and Approach e entire data ba A File Header Ro DC Accession #68 ental sheets for No varies w	hes from Un. on tch - 68-0201 ecord should be -0201; Vessel i specific cruis ith each indiv	113 of Physical-C. f Washington in Sea - consists of 54 su e encoded for each Names ASTOR and se and ship match-u idual cruise as do unreadable and they	ttle, Wash- b-data sets individual BROWN BEAR. ps. Origi- the Dates of
NODC PUB. M-2	2 IS TO	BE USED IN CON	JUNCTION WITH THESI	INSTRUCTIONS
(General inst	tructions begin o			
INSTR. NO.		SPECTAL	INSTRUCTIONS	
#1 -		made in any fi fill the entir	eld on the Data Rec re field, zeros (Ø)	
#2	Do not code dec	cimal points.	They are understood	i.

There are several data sets (cruises) incorporated in the very last cruise (vessel=SKIFF). Although the cruise number varies from 1-37 the cruise is to be treated as on single cruise. Therefore, only one (1) File Header Record need be

coded for that particular cruise.

Supplemental Sheet for 68-0201

Acces. No.	<u>Vessel</u>	Orig. Cruise No.	Dates or Operation	Senior Scientist	# Obs. I	nstitution
68-0201	BROWN BEAR	BB182	01/02/58-01/03/58	Dr. R.G. Paquette	4 V U.	niv. of Wash.
		BB1 88	02/19/58-02/20/58	Dr. S.A. El Wardani	94	
	"	BB198	06/07/58-06/08/58	W. Aron	4	
		BB201	09/15/58-09/18/58	J.H. Lincoln	54/	
		BB205	11/17/58-11/21/58		67 €	
		BB209	12/19/58-12/23/58	J. Dermody	70	
		BB213	01/27/59-01/28/59		3 1/	
		BB218	02/21/59-02/21/59	Dr. C.A. Barns	5~	
		BB219	03/02/59-03/02/59	Dr. R.G. Paquette	5⁄	
# .s.		BB221	03/03/59-03/05/59		29 🔏	
"		BB222	03/19/59-03/20/59	Dr. M. Rattray	2 253	-
		BB223	03/24/59-03/27/59	R. Burns	60	76
		BB224	03/30/59-04/01/59	Dr. G.C. Anderson	8	11
		BB233	06/03/59-06/05/59	E.E. Collias	38 🗸	
		BB234	06/18/59-06/19/59	Dr. R.G. Paquette	18 🗸	
		BB242	10/26/59-10/29/59	J. Dermody	63/	
		BB243	11/02/59-11/04/59	E.E. Collias	20/459	
		BB245	11/30/59-12/02/59	R.A. Barkley	13	
/8		BB247	12/05/59-12/05/59	Dr. C.A. Barns	5 V	и
·))

Supplemental Sheet for 68-0201 (cont'd)

Acces. No.

68-0201

Vessel	Orig. Cruise No.	Dates of Operation	Senior Scientist	# Obs. Institution
BROWN BEAR	BB248	12/10/59-12/11/59	E.E. Collias	25 Kruniv. of Wash.
	BB249	01/18/60-01/19/60	${\it Dr. T.S. English}$	9
	BB251	01/25/60-01/29/60	J. Dermody	~ 69
	BB252	02/05/60-02/05/60	E.E. Collias	<i>'</i>
	BB257	04/19/60-04/22/60		13 🧸
	BB259	05/02/60-05/06/60	F.D. Henson	717
	BB261	05/11/60-05/11/60	R.E. Burns	24
	BB262	05/19/60-05/23/60	Dr. C.A. Barns	14
	BB264	09/80/90-09/20/90	J. Dermody	16 ~
	BB265	09/11/90-09/01/90	E.E. Collias	711
	BB271	12/08/60-12/08/60	W.A. Dawson	2
	BB272	12/14/60-12/20/60	E.E. Collias	84 /
	BB273	12/27/60-12/30/60	R.E. Burns	21 <
	BB276	02/06/61-02/06/61	E.E. Collias	11
	BB279	02/28/61-02/28/61		ġ
	BB284	04/17/61-04/21/61		59,
	BB285	04/28/61-04/28/61	Dr. F.A. Richards	S.
	BB288	19/01/90-19/60/90		.70

Supplemental Sheet for 68-0201 (cont'd)

Acces. No.

68-0201

Institution	Univ. of Wash.																	
# ops	7	4	57.	· 60	g	17	70	711	761	90	7	8	m	m	m	m	21	1124
Senior Scientist	E.E. Collias		J.W. Stevens	${f T.J.}$ Glancy				D.A. Damkaer									I.D. Larrance	
Dates of Operation	09/14/61-09/15/61	11/03/61-11/03/61	11/13/61-11/11/61	09/02/59-09/04/59	09/10/59-09/10/59	09/15/59-09/17/59	09/24/59-09/24/59	08/12/60-08/12/60	09/10/60-09/08/80	09/17/60-09/17/60	09/23/60-09/25/60	10/15/60-10/16/60	10/29/60-10/30/60	11/12/60-11/13/60	12/03/60-12/03/60	12/10/60-12/11/60	02/04/61-10/24/61	
Orig. Cruise No.	BB293	BB294	BB296	DAB2A1	DAB2A2	► DAB2A3	DAB2A4	DAB07	DABO 8	DAB09	DAB10	DABII	DAB12	DAB13	DAB14	DAB15	D17-37	
Vessel	BROWN BEAR			YTL 49				ASTOR				НУДАН					SKIFF	

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			 _		_

File Header Record

	CARD	M-2	
ITEM	COL. NO.	TABLE NO.	INSTRUCTIONS
File			
Type	1-3		Constant entry of "004"
Acces.			
Number	4-9		Enter "680201" on each File Header Record
Record			
Type	10		Constant entry of "1"
1			Varies with each particular cruise. Enter as
Vessel	11-21		given for each individual cruise. (Also see
	•		supplemental sheet)
Org.			Varies with each particular cruise. Enter as
Cr. ID	22-27	~~~~~	given for each individual cruise. (Also see
		÷	supplemental sheet)
Dates			Enton hoginning Conding John of Cincles
of Oper.	28-44		Enter beginning & ending dates of first & last observation of each respective cruise. (See
OT OPET	20 44		supplemental sheet)
		,	Supplemental Sincety
Senior			Varies with each particular cruise. Enter as
Scien	45-63		given for each individual cruise. (Also see -
			supplemental sheet)
1			
Insti-			Enter "UNIV. OF WASH." on each File Header
tution	64-80		Record
	•		
^]			
		İ	
		,	
		1	

F	AGE	2	OF	5	PAGES

First - Station Header Record

FILE File File File Fipe 1-3 Constant entry of "@d" Record Record Fipe 10 Record Fige 10 Constant entry of "2" Constant entry of "@f" Constant entry of "def"				
File Type 1-3 Constant entry of "\$\textit{g4}" Access. Number 4-9		CARD	M-2	
Constant entry of "@@4" Constant entry of "@@4" Constant entry of "@@4" Constant entry of "enter "680201" on each Station Header Record Constant entry of "2" Constant entry of "2" Constant entry of "@1" Co		COL. NO.	TABLE NO.	INSTRUCTIONS
Enter "680201" on each Station Header Record	File			
Enter "680201" on each Station Header Record Record Record 10	Type	1-3		Constant entry of "004"
### Constant entry of "2" Constant entry of "90" Enter as given for each respective station (Right justified) Enter as given. Use the following table to convert tenths of minutes to seconds: ### Tenths of Minutes	1			
Constant entry of "2" Record Refer as given for each respective station Right justified Reter as given. Use the following table to convert tenths of minutes to seconds: Tenths of Minutes Seconds 1	Number	4-9		Enter "680201" on each Station Header Record
Constant entry of "\(\text{if} \)	. 1			
Constant entry of "@pl" Enter as given for each respective station (Right justified)		10		Constant entry of "2"
Enter as given for each respective station (Right justified) Enter as given. Use the following table to convert tenths of minutes to seconds:				
Sta. No. 14-18		11-13	~~~~~	
Enter as given. Use the following table to convert tenths of minutes to seconds: Tenths of Minutes	_			Enter as given for each respective station
### Liner as given. Use the following table to convert tenths of minutes to seconds: Tenths of Minutes		14-18		(Right justified)
Tenths of Minutes = Seconds	Lati- tude	19-24		Enter as given. Use the following table to convert tenths of minutes to seconds:
.1				
12 18 18 18 18 18 19 19 19				
.4	,			
1.5				.3 = 18
1.6				.4 = 24
1.7				.5 = 30
### 18				.6 = 36
### 1				
Enter "N" throughout entire data set Enter "N" throughout entire data set Enter as given. Use the table as given under Latitude to convert tenths of minutes to seconds Enter "W" throughout entire data set Time (GMT) 34-36 Tables #4&2 Facific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Sounding is recorded under "SDG" in meters. Enter as given Sounding is recorded under "SDG" in meters. Enter as given Enter "Ø1" Method 52 Enter "3"				.8 = 48
Enter "N" throughout entire data set Enter as given. Use the table as given under Latitude to convert tenths of minutes to seconds Hemi- Sphere 33			<u> </u>	.9 = 54
Enter as given. Use the table as given under Latitude to convert tenths of minutes to seconds Hemi-sphere 33 Enter "W" throughout entire data set Time (GMT) 34-36 Tables #482 Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Nater Depth 45-49 Enter as given Navigation 50-51 Enter "Ø1" Method 52 Enter "3"	Hemi-			
Enter as given. Use the table as given under Latitude to convert tenths of minutes to seconds Hemi-sphere 33 Enter "W" throughout entire data set Time (GMT) 34-36 Tables #482 Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Nater Depth 45-49 Enter as given Navigation 50-51 Enter "Ø1" Method 52 Enter "3"	sphe r e	25		Enter "N" throughout entire data set
Latitude to convert tenths of minutes to seconds Hemi- sphere 33 Time Time is recorded under "HR" and is given as Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Sounding is recorded under "SDG" in meters. Enter as given Navigation 50-51	Longi-			
Hemi- Sphere 33 Enter "W" throughout entire data set Time (GMT) 34-36 Tables #4&2 Time is recorded under "HR" and is given as Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Nater Depth 45-49 Enter as given Method 52 Enter "Ø1"	tude	26-32		
Enter "W" throughout entire data set Time (GMT) 34-36 Tables #4&2 Time is recorded under "HR" and is given as Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Vater Depth 45-49 Naviga- tion 50-51 Enter "Ø1" Method 52 Enter "3"				seconds
Enter "W" throughout entire data set Time (GMT) 34-36 Tables #4&2 Time is recorded under "HR" and is given as Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Vater Depth 45-49 Naviga- tion 50-51 Enter "Ø1" Method 52 Enter "3"				
Time (GMT) 34-36 Tables #4&2 Time is recorded under "HR" and is given as Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Nater Sounding is recorded under "SDG" in meters. Depth 45-49 Enter as given Navigation 50-51 Enter "Ø1" Method 52 Enter "3"				
GMT 34-36 Tables #4&2 Pacific Standard Time and must be converted to (GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Sounding is recorded under "SDG" in meters. Depth 45-49 Enter as given Enter as given Method 52 Enter "3" Enter "3"		33		
(GMT). Use table #2 to convert tenths of minutes to seconds Enter as given except where conversion to (GMT) changes the day Nater Depth 45-49 Enter as given Navigation 50-51 Enter "Ø1" Method 52 Enter "3"				
### ##################################	(GMT)	34-36	Tables #4&2	
Date 37-44 (GMT) changes the day Water Sounding is recorded under "SDG" in meters. Depth 45-49 Enter as given Naviga- Enter "Ø1" Method 52 Enter "3"		: 1		
Date 37-44 (GMT) changes the day Water Sounding is recorded under "SDG" in meters. Depth 45-49 Enter as given Naviga- Enter "Ø1" Method 52 Enter "3"	Station			
Sounding is recorded under "SDG" in meters.	Date	37-44		
Depth 45-49 Enter as given Naviga- Enter "Ø1" Lion 50-51 Enter "Ø1" Method 52 Enter "3"	Water			
tion 50-51 Enter "Ø1" Method 52 Enter "3"	Depth	45-49		
Method 52 Enter "3"				
	tion	<i>50-51</i>		Enter "Ø1"
	Method	52		Enter "3"
130U HEAVE DIAIN	· · · · · · · · · · · · · · · · · · ·	53-80		Leave blank

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2		<u> </u>	_	111010

Second - Station Header Record

	CARD	M-2	
ITEM	COL. NO.	TABLE NO.	INSTRUCTIONS
File	COH. NO.	TADILL NO.	INDIRECTIONS
Type	1-3		Constant entry of "004"
Acces.	1-3		Constant energ of \$\$\psi\$4
Number	4-9		Enter "680201" on each Station Header Record
Record			
Type	10		Constant entry of "3"
Record			
Seq.	11-13		Constant entry of "001"
Org.		•	
Sta. No	. 14-18		Enter as given (Right justified)
Bar.			Enter as given, when given. Record under
Pres.	19-21		"BAR"
AirTemp			Recorded under "DRY" in degrees Fahrenheit.
DryBulb		Table #20	Convert to degrees Celsius
Air Tem	+		Recorded under "WET" in degrees Fahrenheit.
Wet Bul	b 26-29	Table #20	Convert to degrees Celsius
Wind ·			Recorded under "DIR" adjacent to "WSPD"."
Dir.	30-31	Table #9	Divide recorded value by ten (10) and enter
			resulting value
			_
Wind			
Speed	32-33		Recorded under "WSPD." Enter as given
	24.25		Leave blank
	34-35		
Sea	26		Recorded under "SEA." Enter when given as
Height	36		given
Swell Dir Ht	37-39	1	Leave blank
DIL HC	37-39		
Weather	40	Table #23	Recorded under "WEA." Given in a two digit
Weather		Table #23	code. Use table #23 to convert to single
	1		digit and enter
Cloud			Recorded under "CL." Use the following table
Type	41		for Cloud Type conversion:
			If given as then code
			1 = 0
			2 = 2
			3 = 1
			4 = 3
	1	1	5 = 4
			6 = 6
			7 = 5
	<u> </u>		<u> </u>

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Second - Station Header Record (cont'd)

	CARD	M-2	
ITEM	COL. NO.	TABLE NO.	INSTRUCTIONS
			If given as then code 7 = 5
			8 = 8 9 = 9
·			X = X
Cloud Amount	42		Recorded under "AMT:" Enter when given as given
Visi- bility	43		Leave blank
Trans- parency	44-47		Recorded under "SCD." Enter when given as given. (Prefix necessary zeros)
Turbid-	48		
i cg			Leave blank
	49-80		Leave blank
			•
	,		
			\$2

. . . .

				P	AGE_	5	OF	5	PAGES
CODING	INSTRUCTIONS	FOR	CRUISE	NO	68-	-0201	 		
Data Re	cord								

	CARD	M-2						
ITEM	COL. NO.	TABLE NO.	INSTRUCTIONS					
File								
Type	1-3		Constant entry of "004"					
Acces.	4.0							
Number	4-9		Enter "680201" on each Data Record					
Record	7.0		Comptont out on C II All					
Type Record	10		Constant entry of "4" Enter "ØØ1" on first Data Record and number					
Seq.	11-13		subsequent Data Records consecutively.					
Deg.	11 13		(e.g., 001; 002; 003; 004; etc.)					
	•		(e.g., 001, 002, 003, 004, elc.)					
Orig.								
Sta. No.	14-18		Enter as given (Right justified)					
			and as green fright has tilled,					
Depth	19-22		Recorded under "Depth." Enter as given					
Temper-								
ature	23-27		Recorded under "Temp" Enter as given					
Salinity	28-32		Recorded under "Sal." Enter as given					
Sigma-t	33-36		Recorded under "Sigma-t." Enter as given					
	37 - 46		Leave blank					
			Oxygen, when given, is recorded under "Oxygen					
Oxygen	47-50		ML/L." Record when given as given					
			112/21 Record when given as given					
	51-64		Leave blank					
Phos-			Phosphate, when given, is recorded under					
phate	65-67		"Phos." Record when given as given					
	68-80		Leave blank					
İ		1						
								
			The state of the s					
		} .						