

## CRUISE SUMMARY REPORT

The Cruise Summary Report is a general purpose form for reporting on measurements and samples collected at sea. It is used to support a global, first level, inventory of data collected at sea and to provide ready access for scientists, programme managers and data managers alike to timely information on who has collected what, when and where. The resulting global summaries of measurements made will be available to scientists and planners through World and National Data Centres and to the Programme Offices of international programmes.

The Cruise Summary Report replaces the ROSCOP (2nd edition), and should be used for cruises ending after January 1st, 1991, although its use prior to that date is strongly encouraged.

For research cruises and voyages of ships of opportunity, it is generally expected that one report will be completed for each port to port operation. It is intended that the report should be completed by the chief scientist(s), or appropriate ship's officer, just before returning to port and that it should be sent as soon as practicable after completion of the cruise or observational programme to:

Please affix the name and address of the collating centre to which the completed report should be submitted

If no address is provided in the above box, then please send to one of the following (as arranged):

- \* Your National Oceanographic Data Centre or designated agency.
- or \* World Data Centre A, Oceanography, NOAA, Washington DC 20235, USA.
- or \* World Data Centre B, Oceanography, 6, Koroleva Street, Obninsk 249020, USSR.
- or \* World Data Centre D, Oceanography, 77 Qi Wei Road, Hedong District, Tianjin, China
- or \* ICES Service Hydrographique, Palaegade 2-4, 1261 Copenhagen K, Denmark.

Further copies of these forms may be obtained from any of the above centres.

## **CODE LIST OF DATA TYPES**

In order to assist computer-based retrieval of information on the data reported on Cruise Summary Reports, you are requested to assign against each of the entries made on Page 2 ("Moorings, bottom mounted gear and drifting systems") and Page 3 ("Summary of measurements and samples taken") one or more data type codes from the following list.

Please note that the list is restricted to the more common types of oceanographic data. For those data types not included on the list you are requested to use codes D90, H90, P90, B90, M90, and G90 (for other types of physical oceanography, chemical oceanography, contamination, biology & fisheries, meteorology, and geology & geophysics data respectively).

For some entries you will find that only one code is required (e.g. for BTs, only H13 is needed), while for others a string of codes may be appropriate (e.g. for water bottle stations with measurements of temperature, salinity, oxygen, nitrate and phosphate, the codes H09, H21, H24 and H22 would be assigned to the entry).

PHY	SICAL OCEANOGRAPHY	COI	NTAMINATION	ME	TEOROLOGY
H71	Surface measurements underway (T, S)	P01	Suspended matter	M01	Upper air observations
H13	Bathythermograph drops	P02	Trace metals	M02	Incident radiation
H09	Water bottle stations	P03	Petroleum residues	M05	Occasional standard measurements
H10	CTD stations	P04	Chlorinated hydrocarbons	M06	Routine standard measurements
H11	Subsurface measurements underway	P05	Other dissolved substances	M71	Atmospheric chemistry
	(T, S)	P12	Bottom deposits	M90	Other meteorological measurements
	Thermistor chain	P13	Contaminants in organisms		
	Transparency (e.g. transmissometer)	P90	Other contaminant measurements		
H17				GE(	DLOGY & GEOPHYSICS
	Geochemical tracers (e.g. freons)	BIO	LOGY & FISHERIES	G01	Dredge
D01	Current meters	BQ1	Primary productivity	G02	Grab
	Current profiler (e.g. ADCP)	B02	Phytoplankton pigments	G03	Core - rock
D03	Currents measured from ship drift		(e.g. chlorophyll, fluorescence)	G04	Core - soft bottom
	GEK	871	Particulate organic matter (e.g. POC, PON)	G08	Bottom photography
D05	Surface drifters / drifting buoys	BO6	Dissolved organic matter	G71	In-situ seafloor measurements
	Neutrally buoyant floats	200	(e.g. DOC)	G72	Geophysical measurements made at
D09	Sea level measurements (including bottom pressure recorders and inverted echo-sounders)	B72	Biochemical measurements (e.g. lipids, aminoacids)		depth (below near surface and above seafloor)
072	Instrumented wave measurements	B73	Sediment traps	G73	Single-beam echosounding
	Other physical oceanographic measurements	B08	Phytoplankton	G74	Multi-beam echosounding
		B09	Zooplankton	G24	Long/short range side scan sonar
		B03	Seston	G75	Single channel seismic reflection
		B10	Neuston	G76	Multichannel seismic reflection
CHE	EMICAL OCEANOGRAPHY	811	Nekton	G26	Seismic refraction
H21	Oxygen	B13	Eggs / larvae	G27	Gravity measurements
H74	Carbon dioxide	807	Pelagic bacteria / micro-organisms	G28	Magnetic measurements
H33	Other dissolved gases	B16	Benthic bacteria / micro-organisms	G90	Other geological or geophysical measurements
H22	Phosphates	B17	Phytobenthos		i i basul bi i lottis
H23	Total-P	B18	Zoobenthos		
H24	Nitrates	B25	Birds		
H25	Nitrites	B26	Mammals & reptiles		
H75	Total-N	B14	Pelagic fish		
H76	Ammonia	B19	Demersal fish		
H26	Silicates	B20	Molluscs		
H27	Alkalinity	B21	Crustaceans		
H28	pH	B28	Acoustic reflection on marine		
H30	Trace elements		organisms		
H31	Radioactivity		Taggings		
H32	Isotopes	B64	Gear research		
H90	Other chemical oceanographic measurements	B65	. , ,		
		B90	Other biological / fishery measurements		

	FOR COLLATING CENTRE USE
ODUNCE OUNDAMEN DEPORT	Centre: Ref. No:
CRUISE SUMMARY REPORT	is data exchange
·	restricted? L L Ves In part No
SHIP enter the full name and international radio call sign of the ship from which the dat example, research ship; ship of opportunity, naval survey vessel; etc.	a were collected, and indicate the type of ship, for
Name:	Call Sign:
Type of ship:	
CRUISE NO./NAME	enter the unique number, name or acronym assigned to the cruise (or cruise leg, if appropriate).
CRUISE PERIOD start day month year	day month year (return to port)
PORT OF DEPARTURE (enter name and country)	
PORT OF RETURN (enter name and country)	
RESPONSIBLE LABORATORY enter name and address of the laboratory responsib	
Name:	
Address:	
Cour	itry:
CHIEF SCIENTIST(S) enter name and laboratory of the person(s) in charge of th	e scientific work (chief of mission) during the cruise.
OBJECTIVES AND BRIEF NARRATIVE OF CRUISE enter sufficient inform as to provide the con-	nation about the purpose and nature of the cruise so lext in which the reported data were collected.
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PROJECT (IF APPLICABLE) if the cruise is designated as part of a larger scale cooperate name of the project, and of the organisation responsible for coordinating the project.	ative project (or expedition or programme), then enter
Project name:	
Coordinating body:	

PRINCIPAL INVESTIGATORS: Enter the name and address of the Principal Investigators responsible for the data collected on the cruise, and who may be contacted for further information about the data. (The letter assigned below against each Principal Investigator is used on pages 2 and 3, under the column heading 'PI', to identify the data sets for which he/she is responsible)							
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F.							
МС	ORIN	IGS, B	OTTOM	MOU	NTED GEAR	AND DRIFTING SYSTEMS	
reco	vered	during ti	ne cruise	. Separa	te entries should l	bottom mounted gear and drifting systems (both surface and deep) deployed and/or be made for each location (only deployment positions need be given for drifting systems), t fixed locations which are returned to routinely in order to construct 'long time series'.	
ΡI	APPI	APPROXIMATE POSITION		TE POSITION DATA TYPE DESCRIPTION			
see top of page.	LAT deg	ITUDE min <sup>N</sup> S	LONG deg		enter code(s) from list on cover page.	identify, as appropriate, the nature of the instrumentation, the parameters (to be) measured, the number of instruments and their depths, whether deployed and/or recovered, dates of deployment and/or recovery, and any identifiers given to the site.	
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					Professional Comment	STREET RESTRICT TO REPORT OF BUTTER STREET RESTRICT TO STREET AND STREET	
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						Please continue on separate sheet if necessary.	

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## SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

Except for the data already described on page 2 under 'Moorings, Bottom Mounted Gear and Drifting Systems', this section should include a summary of all data collected on the cruise, whether they be measurements (e.g. temperature, salinity values) or samples (e.g. cores, net hauls).

Separate entries should be made for each distinct and coherent set of measurements or samples. Different modes of data collection (e.g. vertical profiles as opposed to underway measurements) should be clearly distinguished, as should measurement/sampling techniques that imply distinctly different accuracies or spatial/temporal resolutions. Thus, for example, separate entries would be created for i) BT drops, ii) water bottle stations, iii) CTD casts, iv) towed CTD, v) towed undulating CTD profiler, vi) surface water intake measurements, etc.

Each data set entry should start on a new line - it's description may extend over several lines if necessary.

NO, UNITS: for each data set, enter the estimated amount of data collected expressed in terms of the number of: 'stations'; 'miles' of track; 'days' of recording; 'cores' taken; net 'hauls'; balloon 'ascents'; or whatever unit is most appropriate to the data. The amount should be entered under 'NO' and the counting unit should be identified in plain text under 'UNITS'.

PI	NO	UNITS	DATA TYPE	DESCRIPTION
see page 2	see above	see above	enter code(s) from list on cover page.	identify, as appropriate, the nature of the data and of the instrumentation/sampling gear and list the parameters measured. Include any supplementary information that may be appropriate, e.g. vertical or horizontal profiles, depth horizons, continuous recording or discrete samples, etc. For samples taken for later analysis on shore, an indication should be given of the type of analysis planned, i.e. the purpose for which the samples were taken.
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TRACK CHART: You are strongly encouraged to submit, with the completed Insert a tick (/) in report, an annotated track chart illustrating the route this box if a track followed and the points where measurements were taken. chart is supplied. GENERAL OCEAN AREA(S): Enter the names of the oceans and/or seas in which data were collected during the cruise - please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas'). SPECIFIC AREAS: If the cruise activities were concentrated in a specific area(s) of an ocean or sea, then enter a description of the area(s). Such descriptions may include references to local geographic areas, to sea floor features, or to geographic coordinates. GEOGRAPHIC COVERAGE - INSERT 'X' IN EACH SQUARE IN WHICH DATA WERE COLLECTED 180 170 160 150 140 130 120 110 100 90 80 70 60 224 223 60 194 193 192 191 190 189 183 182 181 216 215 50 50 156 155 154 153 152 151 180 40 40 113 112 111 110 109 142 141 105 103 50 67 È3 52 51 50 49 48 47 46 45

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## THANK YOU FOR YOUR COOPERATION

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Please send your completed report without delay to the collating centre indicated on the cover page