Benthic Tape Format 85 Character Records

Record 1, File Header

Characters 71-85 Blank

	Characters 1-3	"002"	Fixed-file type
	Characters 4-9	6 numeric	Date of file generation (year, month, day)
	Character 10	"1"	Fixed-record type (denotes file header)
	Characters 11-21	11 alpha	Vessel (left-justified)
	Characters 22-27	6 alpha	Cruise number
	Characters 28-44		Cruise dates in form xx/xx/xx-xx/xx/xx
			(year, month, day)
	Characters 45-63	19 alpha	Senior scientist (left-justified)
	Characters 64-85	22 alpha	Investigator and institution responsible
	Characters of acc	75 aThua	
			for data (left-justified)
C			
Kec	ord 2, Sample Header 1		
		"002"	navos dinorem
	Characters 1-3	. *	Fixed-file type
	Characters 4-9	6 numeric	Date of file generation (year, month, day)
	Character 10	112 11	Fixed-record type (denotes sample header)
	Characters 11-13	$_{ m ii}$ 00 $ m T_{ m ii}$	Sequence number of record type*
	Characters 14-18	. 5 alpha	Sample number
	Characters 19-25	6 numeric	Latitude (degrees, minutes, seconds,
-		l alpha	hemisphere -N or S)
	Characters 26-33	7 numeric	Longitude (degrees, minutes, seconds,
		-	hemisphere -E or W)
	Characters 34-36	3 numeric	Sample time (GMT to nearest tenth of a hour)
	Characters 37-44	0 1101110220	Sample date in form xx/xx/xx (year, month, day)
	Characters 45-49	5 numeric	Water depth (to nearest meter)
	Character 50	l numeric	Gear:
	Character 50	T MUMELIC	
			1-Smith-McIntyre Grab
	4		2-Peterson-Grab
			3-Spade box corer
			4-Anchor dredge
			5-Small bioliogical trawl
		•	6-Rockingchair dredge
	Characters 51-52	2 numeric	Number of replicates (taken at this station)
	Characters 53-56	4 numeric	Screen size (mm, 3 decimals)
	Characters 57-58	2 numeric	Navigation
			01-Loran A
		•	02-Loran C
			03-Radar and/or Fixes
			04-Raydist (w/o complications)
			05-Raydist (with errors, drifting, etc.)
			06-Satellite
	01 / 50 60		07-Omega
	Characters 59-62	4 numeric	Surface area of sample (square meters,
			3 decimals)
	Characters 63-66	4 numeric	Depth of sample penetration (cm, 1 decimal)
	Characters 67-69	3 numeric	Duration of tow (hours, two decimals)
	Character 70	l numeric	Type of sample
			l-Benthic Macrofauna
			2-Benthic Microfauna
			3-Benthic Megafauna

* The last sample header for each sample is followed by a terminator record with characters 1-10 identical to the last sample header, followed by 998 as characters 11-13 and with all other characters blank.

Record 3, Sample Header 2

Characters 1-3	"002 !!	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)
Character 10	112 11	Fixed-Record type (denotes sample header)
Characters 11-13	"002"	Sequence number of record type*
Characters 14-18	5 alpha	Sample number
Characters 19-21	3 numeric	Barometric pressure (in tens, units and tenths of millibars)
Characters 22-25	4 numeric	Dry-bulb Air temperature (°C to nearest tenth
Characters 26-29	4 numeric	Wet-bulb Air temperature (°C to nearest tenth
Characters 30-31	2 numeric	Wind direction (code indicating tens of degrees according to the WMO Code 0877)
Characters 32-33	2 numeric	Wind speed (to nearest knot)
Characters 34-35	2 numeric	Sea Direction (code indicating tens of degrees according to WMO Code 0885)
Character 36	1 numeric	Sea height (code indicating height of waves according to WMO Code 1555)
Characters 37-38	2 numeric	Swell direction (code indicating tens of degrees according to WMO Code 0885)
Character 39	l numeric	Swell height (code indicating height of swell according to WMO Code 1555)
Character 40	l numeric	Weather (code indicating weather according to WMO Code 4501)
Character 41	l numeric	Cloud type (code indicating cloud type according to WMO Code 0500)
Character 42	l numeric	Cloud cover (code indicating percent cloud cover according to WMO Code 2700)
Character 43	l numeric	Visibility (code indicating visibility according to WMO Code 4300)
Characters 44-47	4 numeric	Secchi Disk Depth (to nearest tenth of a meter)
Character 48	1 numeric	Turbidity measurement technique 1-Turbidometer, in JTU 2-Transmissometer, in % light transmission over 10cm path
Charactera 40 0°	T) 7) .	3-Fluorometer, suspended solid colibration
Characters 49-85	Blank	

^{*} The last sample header for each sample is followed by a terminator record with characters 1-10 identical to the last sample header followed by 998 as characters 11-13, and with all other characters blank.

Record 4, Data Record

Characters 1-3 Characters 4-9	"002" 6 numeric	Fixed-file type Date of file generation (year, month, day)
Character 10	J	Fixed-record type (denotes data record)
Characters 11-13	3 numeric	Sequence number of record type *
Characters 14-18	5 alpha	Sample number
Characters 19-20	2 numeric	Replicate number (replicates without specimens not entered on tape)
Characters 21-30	10 numeric	Species code (VIMS Code)
Characters 31-35	5 numeric	Count (number of individuals)
Characters 36-85	Blank	

The last data record of each sample is followed by a sample terminator with characters 1-10 identical to the last data record, followed by 998 as characters 11-13, and with all other characters blank. The last sample terminator of the file (at the end of all data) is followed by a file terminator record with 999 in characters 11-13 (characters 1-10 identical to the last data record) and with all other characters blank.