

Hydrocarbon Tape Layout 80 Character Records

Record 1, File Header

Characters 1-3	"010"	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 (left-justified)
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 64-80	17 alpha	Investigator and institution responsible for data (left-justified)

Record 2, Sample Header 1

Characters 1-3	"010"	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)
Character 10	"2"	Fixed-record type (denotes sample header)
Characters 11-13	"001"	Fixed-sequence number of record type*
Characters 14-18	5 alpha	Lab sample number
Characters 19-25	6 numeric	Latitude (degrees, minutes, seconds, hemisphere -N or S)
Characters 26-33	7 numeric	Longitude (degrees, minutes, seconds, hemisphere -E or W)
Characters 34-36	1 alpha	Station time (GMT to nearest tenth of an hour)
Characters 37-44	3 numeric	Sample date in form xx/xx/xx (year, month, day)
Characters 45-49	5 numeric	Water depth (to nearest tenth of a meter)
Characters 50-51	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 07-Omega
Character 52	1 numeric	Code for type of sample 1-water column 2-benthic
Character 53	1 numeric	Code for analytical technique 1-GC 2-GCMS
Characters 54-80	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 a 998 as characters 11-13 and all other characters blank.

Record 3, Sample Header 2

Characters 1-3	"010"	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)

Character 10	"2"	Fixed-record type (denotes sample header)
Characters 11-13	"002"	Fixed-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 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 accordint to WMO Code 0885)
Character 39	1 numeric	Swell height (code indicating height of swell according to WMO Code 1555)
Character 40	1 numeric	Weather (code indicating weather according to WMO Code 4501)
Character 41	1 numeric	Cloud type (code indicating cloud type according to WMO Code 0500)
Character 42	1 numeric	Cloud cover (code indicating percent cloud cover according to WMO Code 2700)
Character 43	1 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 3-fluorometer, suspended solid calibration
Characters 49-80	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 1

Character 1-3	"010"	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)
Character 10	"3"	Fixed-record type (denotes data record)
Characters 11-13	"001"	Fixed-sequence number of record type*
Characters 14-18	5 alpha	Lab sample number
Characters 19-24	6 numeric	pristane/plytane ration (3 decimals)
Characters 25-30	6 numeric	pristane/n - c17 ratio (3 decimals)
Characters 31-36	6 numeric	normal/branched alkane ratio (3 decimals)
Characters 37-42	6 numeric	branched-isoprenoid alkane/n-alkane ratio (3 decimals)
Characters 43-46	4 numeric	total alkane recovered by weight (micrograms/gram if solid sample, miligrams/liter if water sample)
Characters 46-49	4 numeric	total aromatics recovered by weight (micorgams/gram if solid sample, miligrams/liter if water sample)
Characters 50-55	6 numeric	ratio within homologous series (3 decimals)

Characters 56-80 Blank

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

Record 5, Data Record 2

Characters 1-3	"010"	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)
Character 10	"3"	Fixed-record type (denotes data record)
Characters 11-13	3 numeric	Sequence number of record type (these start with 002)*
Characters 14-18	5 alpha	Sample number
Characters 19-20	2 numeric	Source
		01-water-particulate hydrocarbons
		02-water-dissolved hydrocarbons
		03-plankton
		04-sediment
		05-surface film
		06-marine organisms
Characters 21-50	30 alpha	Compound name (left-justified)
Characters 51-55	5 numeric	Dry weight $\mu\text{g/g}$
Characters 56-60	5 numeric	Peak value
Characters 61-80	Blank	

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