RECORD DESCRIPTION

IGOSS Radio Message TESAC Format

FIELD NAME	LOCATION Position	Units	LENGTH Number	Units	EXPLANATION/REMARKS
Beginning of Record Indicator	1	bytes	4	bytes	Beginning of observation indicator from the TESAC radio messages (KKXX).
GTS Station	5	"	4	"	Call sign of GTS station which transmitted the radio message.
Transmission Time					The time the radio message was transmitted by the GTS station.
Day	9	"	2	"	1-31, right justified, zero filled
Hour	11	"	2	"	0-23, right justified, zero filled GMT
Minutes	13	"	2	"	0-59, right justified, zero filled
Time Received					The time the radio message was received at the GTS station.
Hour	15	"	2	"	0-23, right justified, zero filled GMT
Minutes	17	"	2	"	0-59, right justified, zero filled
GTS Station	19	"	4	"	Call sign of the GTS station creating the file to be sent to the archiving center.
Date Created					The date the file was created to be sent to the archiving center.
Year	23	"	2	"	0-99, right justified, zero filled
Month	25	"	2	"	1-12, right justified, zero filled GMT
Day	27	"	2	"	1-31, right justified, zero filled

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FIELD NAME	LOCATION		LENGTH		EXPLANATION/REMARKS
	Position	Units	Number	Units	
Date/Time					The date and time the observation was taken.
Year	29	bytes	2	bytes	0-99, right justified, zero filled
Month	31	"	2	"	1-12, right justified, zero filled
Day	33	"	2	"	1-31, right justified, zero filled GMT
Hour	35	"	2	"	0-23, right justified, zero filled
Minutes	37	"	2	"	0-59, right justified, zero filled
Country	39	"	2	"	IOC Country Code. Blank or 99 for unknown (call sign not identified at time of message received).
Ship Call Sign	41	"	8	"	WMO ship call sign, left justified, blank filled.
Data Type	49	"	1	"	The type of data (1=TESAC)
Position					Location that the observation was taken at.
Quadrant	50	"	1	"	1=NE, 3=SE, 5=SW, 7=NW
Latitude					
Degrees	51	"	2	"	0-89, right justified, zero filled
Minutes	53	"	2	"	0-59, right justified, zero filled
Longitude					
Degrees	55	"	3	"	0-179, right justified, zero filled
Minutes	58	"	2	"	0-59, right justified, zero filled
Wind					
Indicator	60	"	1	"	Blank = no data

0 = Meters/second with certified instruments.
1 = Knots with certified instruments.
2 = Meters/second with uncertified instruments.
3 = knots with uncertified instruments.

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FIELD NAME	LOCATION Position	Units	LENGTH Number	Units	EXPLANATION/REMARKS
Direction	61	bytes	2	bytes	True wind direction, in tens of degrees, right justified and zero filled. Use 00 for calm, 36 for a direction of 355 to 004 degrees and blank for no data.
Speed	63	"	2	"	True wind speed, in whole meters/second or whole knots, right justified, zero filled. Use 00 for calm and blank for no data.
Air Temperature					
Indicator	65	"	1	"	FM63 and FM64 governed code. blank = no data, 2 = data present
Sign	66	"	1	"	0 = Positive (+), 1 = Negative (-), blank = no data
Temperature	67	"	3	"	°C to tenths, right justified, zero filled.
Depth to Bottom	70	"	4	"	To whole meters, right justified, zero filled
Hit Bottom					
Indicator	74	"	1	"	Indicates if the probe hit bottom (blank = undetermined, 0 = didn't hit bottom, 1= did hit bottom).
Number of Significant Depths*	75	"	3	"	The number of significant or inflection points taken.
Number of Predetermined Depths*	78	"	3	"	The number of standard, fixed or predetermined depths taken.

* The number of significant depths and the number of predetermined depths must not add up to more than 500. The maximum record length is 7080. Each observation will be a physical record (block).

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FIELD NAME	LOCATION Position	LOCATION Units	LENGTH Number	LENGTH Units	EXPLANATION/REMARKS
First Depth	81	bytes	4	bytes	To whole meters, right justified, zero filled.
First Temperature					
Sign	85	"	1	"	0 = Positive (+), 1 = Negative (-), blank = no data
Temperature	86	"	4	"	°C to hundredths, right justified, zero filled.
First Salinity	90	"	5	"	Parts per thousand to hundredths, right justfied, zero filled. Field is blank if data is not present or not collected.
Depth	95	"	4	"	To whole meters, right justified, zero filled.
Temperature					
Sign	99	"	1	"	0 = Positive (+), 1 = Negative (-), blank = no data
Temperature	100	"	4	"	°C to hundredths, right justified, zero filled.
Salinity	104	"	5	"	Parts per thousand to hundredths, right justified, zero filled. Field is blank if data is not present or not collected.

NOTE: The depth, temperature and salinity fields are repeated as required. All significant or inflection points proceed any predetermined depths when both are present. The number of significant depths and the number of predetermined depths will determine the total number of data points. If the number of significant depths is zero, the standard depths start in byte 81. (Example: 3 significant points followed by 4 predetermined depths.)