

SEAS 2000 Binary XBT Profile Format for Message Type 2

	Bit Positior	# of Bits	Units	Scale	Offset	Min	Max	Example	
FXY1011 WMO_ID;	0 - 71	72	CCITT IA5					V7SX3	
FXY48211 Old_Mess_Type;	72 - 77	6	Numeric	0				All 1s	
FXY48216 New_Mess_Type;	78 - 87	10	Numeric	0					2
FXY5001 Lat;	88 - 112	25	Degrees	5	-9000000	0	18000000	12862800	38.628
FXY6001 Lon;	113 - 138	26	Degrees	5	-18000000	0	36000000	10830400	-71.696
FXY1080 SOOPLine	139 - 186	48	CCITT IA5	1	0	0		6 AX07	
FXY5036 TransectNo;	187 - 193	7	Numeric	0	0	0	126		10
FXY48304 SeqNo;	194 - 209	16	Numeric	0	0	0	65534		325
FXY4001 Year;	210 - 221	12	Numeric	0	0	0	4094		2010
FXY4002 Month;	222 - 225	4	Numeric	0	0	1	12		12
FXY4003 Day;	226 - 231	6	Numeric	0	0	1	31		4
FXY4004 Hour;	232 - 236	5	Numeric	0	0	0	23		5
FXY4005 Minute;	237 - 242	6	Numeric	0	0	0	59		1
FXY1200 ShipName;	243 - 482	240	CCITT IA5					Oleander	
FXY1201 Lloyds;	483 - 506	24	Numeric	0	0	0	9999999	8901406	
FXY48302 UniqueTag;	507 - 538	32	Numeric	0	0	0	4294967295	BAC81165	
FXY48201 SEASVersion;	539 - 548	10	Numeric	0	0	0	999		6.1
FXY48300 ProbeSerial;	549 - 568	24	Numeric	0	0	0	999999	123456	
FXY48303 ThisDatals;	568 - 571	3	Code Table	0	0	0	6		1
FXY33003 DataQual;	572 - 574	3	Code Table	0	0	0	6		1
FXY48305 LaunchHeight;	575 - 587	13	Meters	2	0	0	8190		12.59
FXY1012 ShipDir;	588 - 596	9	Degrees True	0	0	0	510		275
FXY1013 ShipSpeed;	597 - 609	13	Meters/Sec	2	0	0	8190		10.52
FXY22067 InstType;	610 - 619	10	Code Table	0	0	0	1022		52
FXY22068 RecorderType;	620 - 626	7	Code Table	0	0	0	126		6
FXY2002 TypeWindInst;	627 - 630	4	Code Table	0	0	0	14		1
FXY11001 WindDir;	631 - 639	9	Numeric	0	0	0	510		240
FXY11002 WindSpeed;	640 - 651	12	Meters/Sec	1	0	0	4094		20.2
FXY12004 DryBulbTemp;	652 - 663	12	Deg/Kelvin	1	0	0	4094		15.7
FXY2030 CurrMeasMeth;	664 - 666	3	Code Table	0	0	0	6		4
FXY22004 CurrentDir;	667 - 675	9	Degrees True	0	0	0	510		125
FXY22031 CurrentSpeed;	676 - 688	13	Meters/Sec	2	0	0	8190		2.45
FXY22063 TotalWaterDepth;	689 - 702	14	Meters	0	0	0	16382		754
FXY100000 NoRepFields;	703 - 710	8	Numeric	0	0	0	254		1
FXY31200 TimesReplicated;	711 - 726	16	Numeric	0	0	0	65534		1460
FXY22042S SeaTemp	727 -	12	Degrees Celsius	2	-400	0	4094		
1459 Sea Temps		17508							
Total message size (bits) (Bytes)		18251	2281.375						

All numeric types must account for the endian order of the machine