

SEAS 2000 Binary XBT Profile Format for Message Type 1

	Bit Position	# 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				1	
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
FXY4001 Year;	139 - 150	12	Numeric	0	0	0	4094	2010	
FXY4002 Month;	151 - 154	4	Numeric	0	0	1	12	12	
FXY4003 Day;	155 - 160	6	Numeric	0	0	1	31	4	
FXY4004 Hour;	161 - 165	5	Numeric	0	0	0	23	5	
FXY4005 Minute;	166 - 171	6	Numeric	0	0	0	59	1	
FXY1200 ShipName;	172 - 411	240	CCITT IA5					Oleander	
FXY1201 Lloyds;	412 - 435	24	Numeric	0	0	0	9999999	8901406	
FXY48302 UniqueTag;	436 - 467	32	Numeric	0	0	0	4294967295	BAC81165	
FXY48201 SEASVersion;	468 - 477	10	Numeric	0	0	0	999	6.1	
FXY48300 ProbeSerial;	478 - 497	20	Numeric	0	0	0	999999	123456	
FXY48303 ThisDatals;	498 - 500	3	Code Table	0	0	0	6	1	
FXY33003 DataQual;	501 - 503	3	Code Table	0	0	0	6	1	
FXY22067 InstType;	504 - 513	10	Code Table	0	0	0	1022	52	
FXY22068 RecorderType;	514 - 520	7	Code Table	0	0	0	126	6	
FXY2002 TypeWindInst;	521 - 524	4	Code Table	0	0	0	14	1	
FXY11001 WindDir;	525 - 533	9	Numeric	0	0	0	510	240	
FXY11002 WindSpeed;	534 - 545	12	Meters/Sec	1	0	0	4094	20.2	
FXY12004 DryBulbTemp;	546 - 557	12	Deg/Kelvin	1	0	0	4094	15.7	
FXY2030 CurrMeasMeth;	558 - 560	3	Code Table	0	0	0	6	4	
FXY22004 CurrentDir;	561 - 569	9	Degrees True	0	0	0	510	125	
FXY22031 CurrentSpeed;	570 - 582	13	Meters/Sec	2	0	0	8190	2.45	
FXY22063 TotalWaterDepth;	583 - 596	14	Meters	0	0	0	16382	754	
FXY100000 NoRepFields;	597 - 604	8	Numeric	0	0	0	254	1	
FXY31200 TimesReplicated;	605 - 620	16	Numeric	0	0	0	65534	1460	
FXY22042S SeaTemp	621 -	12	Degrees Celsius	2	-400	0	4094		
1459 Sea Temps		17508							
Total message size (bits) (Bytes)		18141	2267.625						

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