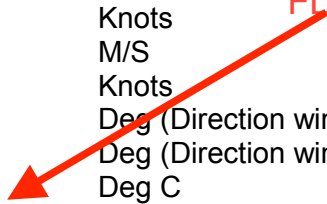


Appendix A MET Parameter Index

Number	Parameter	Description	Units
0	AT	Air Temperature	Deg C
1	BP	Barometric Pressure	millibars (mb)
2	BC	Barometric Pressure Temp	Deg C
3	SW	Short Wave Radiation (SWR)	W/M^2 (Pyranometer)
4	LW	Long Wave Radiation (LWR)	W/M^2 (Pyrgeometer)
5	LD	LWR Dome Temperature	Deg K
6	LB	LWR Body Temperature	Deg K
7	LT	LWR Thermopile	Volts
8	PR	Precipitation	millimeters (mm)
9	PT	Precipitation	mm/hr
10	RH	Relative Humidity	%RH
11	RT	Air Temp (RH module)	Deg C
12	DP	Dew Point	Deg C
13	WS	Rel Wind Speed	M/S
14	WK	Rel Wind Speed	Knots
15	TW	True Wind Speed	M/S
16	TK	True Wind Speed	Knots
17	WD	Rel Wind Direction	Deg (Direction wind is coming from)
18	TI	True Wind Direction	Deg (Direction wind is coming from)
19	ST	Sea Surface Temperature	Deg C
20	TT	Thermosalinograph Temperature	Deg C
21	TC	Thermosalinograph Conductivity	milliSiemens per centimeter (mS/cm) (with slope, offset correction)
22	SA	Salinity	PSU
23	SD	Sigma-t	Kg/m^3
24	SV	Sound Vel (Chen/Millero)	M/S
25	OX	Oxygen	ml/l
26	OG	Oxygen	mg/l
27	OC	Oxygen Current	ua
28	OT	Oxygen Temperature	Deg C
29	OS	Oxygen Saturation value	ml/l
30	PH	Alkalinity (pH)	
31	FL	Fluorometer	ug/l
32	TB	Turbidity	NTU
33	TR	Transmissometer	%
34	BA	Beam Attenuation	
35	PA	Surface PAR	uE/Second/Meter^2
36	FM	USW Flow Meter	GPM
37	FI	USW Flow Meter	LPM
38	VT	Volts	Volts
39	MA	Current	m/a
40	WT	Auxiliary water Temp	Deg C
41	AX	Auxiliary Air Temperature	Deg C
42	PS	Pressure	PSI
43	XX	Unspecified	
44	LA	Latitude Decimal format	Deg
45	LO	Longitude Decimal format	Deg
46	CR	Ships Course (GPS COG)	Deg
47	SP	Ship's Speed (GPS SOG)	Knts
48	SL	Ship's Speed Log –Longitudinal	Knots
49	SX	Speed Log – Transverse	Knots

First S, T values listed are from bow water through bowthruster room TSG SBE45, second set are from bow water through main lab TSG SBE45 * FL-3 is flow of TSG2



50	GY	Ships Heading (Gyrocompass)	Deg
51	GT	GPS Time of Day	GMT Secs 0-86400
52	TS	Time Server Time of Day	GMT Secs 0-86400
53	ZD	GPS DateTime	GMT Secs Since 00:00:00 01/01/1970
54	GA	GPS Altitude	Meters above/below Mean Sealevel
55	GS	GPS Status/Number Satellites	1 st digit – Status (see below)** Last two digits – Number satellites
56	SY	System DateTime	GMT Secs Since 00:00:00 01/01/1970
57	BT	Bottom Depth	Meters
58	SH	Ashtech Heading	Deg
59	SM	Ashtech Pitch	Deg
60	SR	Ashtech Roll	Deg
61	ZO	Winch Wire Out	Meters
62	ZS	Winch Speed	MPM
63	ZT	Winch Tension	LBS
64	VP	VRU Pitch	Deg
65	VR	VRU Roll	Deg
66	VH	VRU Heave	Meters
67	VY	Ship's List	Deg
68	VX	Ship's Trim	Deg
69	RX	Accelerometer X	Meters/Second
70	RY	Accelerometer Y	Meters/Second
71	RZ	Accelerometer Z	Meters/Second
72	IP	CTD Depth	Meters
73	IT	CTD Temperature	Deg C
74	IS	CTD Salinity	PSU
75	IA	CTD Altimeter	Meters
76	IV	CTD Velocity	Meters/Second
77	IX	Instrumentation Aux	
78	PZ	UCW Pump Status	ON/OFF
79	TG	Thermosalinograph Conductivity	MilliSiemens per cm (ms/cm) (no slope, offset correction)
80	MB	Multibeam Depth	Meters
81	BS	Barometric Pressure Sealevel (Corrected to Sea Level)	Millibars (mb)
82	PC	pCO2 (partial pressure of CO2)	(uatm) Micro-atmospheres
83	AF	Air Temperature (Deg F)	Deg F
84	WC	Wind Chill (Deg C)	Deg C
85	WF	Wind Chill (Deg F)	Deg F
86	LF	Depth Sounder (3.5Khz)	Meters (Below Surface)
87	HF	Depth Sounder (12Khz)	Meters (Below Surface)
88	MG	Magnetometer	nanoTesla
89	MD	Magnetometer Depth	Meters (Below Surface)
90	MS	Magnetometer Status	Signal Strength (>80 = good)
91	GV	Gravity	mGal
92	GC	Gravity Counts	Counts
93	FB	Fluorometer Optical Brighteners	PPB
94	FO	Fluorometer Oil	PPB
95	FF	Fluorometer Fuel	PPB
96	FT	Fluorometer Temperature	Deg C
97	SF	Sea Surface Temperature	Deg F
98	TF	Thermosalinograph Temperature	Deg F
99	RF	Air Temp (RH module)	Deg F
100	DF	Dew Point	Deg F

101	WB	Wet Bulb Temperature	Deg C
102	WF	Wet Bulb Temperature	Deg F
103	ZI	Winch ID	Numbers 1 thru 9

****GPS status indicator**

0 = fix not available or invalid

1 = GPS SPS mode, fix valid

2 = differential GPS, SPS mode, fix valid

3 = GPS PPS mode, fix valid

4 = Real Time Kinematic. Satellite system used in RTK mode with fixed integers

5 = Float RTK. Satellite system used in RTK mode with floating integers

6 = Estimated (dead reckoning) mode

7 = Manual input mode

8 = Simulator mode