Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2786 CALIBRATION DATE: 10-Jan-12

SBE3 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.37651429e-003 h = 6.44580133e-004 i = 2.31201103e-005 j = 2.17753522e-006f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121013e-003 b = 6.01167081e-004 c = 1.58383766e-005 d = 2.17905632e-006 f0 = 3061.398

BATH TEMP (ITS-90)	INSTRUMENT FREO (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)	
-1.4999	3061.398	-1.4998	0.00006	
1.0001	3237.510	1.0000	-0.00005	
4.5001	3496.224	4.5000	-0.00006	
8.0001	3769.474	8.0001	-0.00003	
11.5001	4057.650	11.5001	0.00005	
15.0001	4361.128	15.0002	0.00015	
18.5001	4680.246	18.5001	-0.00004	
22.0001	5015.399	22.0000	-0.00006	
25.5001	5366.919	25.5001	-0.00001	
29.0068	5735.838	29.0067	-0.00006	
32.5001	6120.336	32.5002	0.00006	

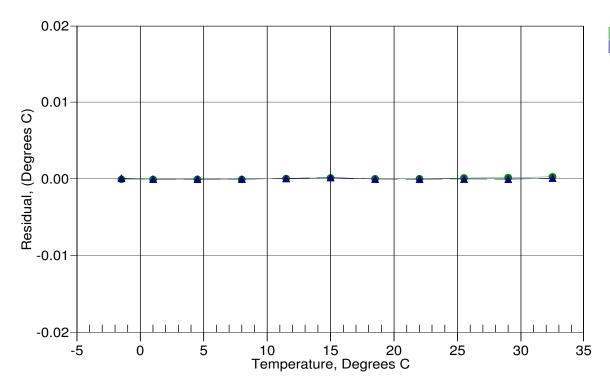
Temperature ITS-90 = $1/\{g + h[ln(f_0/f)] + i[ln^2(f_0/f)] + j[ln^3(f_0/f)]\}$ - 273.15 (°C)

Temperature IPTS-68 = $1/\{a + b[ln(f_0/f)] + c[ln^2(f_0/f)] + d[ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be 1.00024 * T_{90} (-2 to 35 °C)

Residual = instrument temperature - bath temperature

Date, Offset(mdeg C)



• 27-Jan-11 0.03 • 10-Jan-12 0.00