Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0696 CALIBRATION DATE: 06-Feb-14

SBE3 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

4.84660871e-003 6.89394384e-004 3.32912264e-005 j = 3.16798616e - 006f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121006e - 003b = 5.99740445e - 004c = 1.59915008e - 005d = 3.16965222e-006f0 = 6191.251

BATH TEMP (ITS-90)	INSTRUMENT FREO (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6191.251	-1.4998	0.00017
1.0000	6548.261	0.9999	-0.00015
4.5000	7072.848	4.4998	-0.00017
8.0000	7627.002	8.0000	-0.00004
11.5000	8211.463	11.5001	0.00011
15.0000	8826.941	15.0002	0.00015
18.5000	9474.137	18.5001	0.00013
22.0000	10153.713	22.0000	0.00002
25.5000	10866.297	25.4998	-0.00021
29.0000	11612.551	28.9997	-0.00025
32.5000	12393.128	32.5002	0.00024

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)

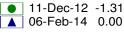
Temperature IPTS-68 = $1/\{a + b[ln(f_0/f)] + c[ln^2(f_0/f)] + d[ln^3(f_0/f)]\} - 273.15$ (°C)

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

Residual = instrument temperature - bath temperature

0.02

Date, Offset(mdeg C)





0.01 Residual, (Degrees C) 0.00 0 5 25 30 -5 10 15 20 35 Temperature, Degrees C