SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2533
CALIBRATION DATE: 20-May-00

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.36958431e-003
h = 6.46956070e-004
i = 2.33813609e-005
j = 2.15002283e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68825444e-003
b = 6.03732786e-004
c = 1.63662598e-005
d = 2.15158197e-006
f0 = 2979.943

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-2.0185	2979.943	-2.0185	-0.00003
-1.4053	3021.339	-1.4053	0.00001
1.1032	3195.008	1.1032	0.00005
4.5971	3448.774	4.5971	-0.00000
8.1951	3724.910	8.1951	-0.00006
11.6291	4002.863	11.6291	-0.00001
15.1865	4306.013	15.1865	0.00006
18.6908	4620.125	18.6908	0.00002
22.1900	4949.469	22.1900	-0.00005
25.7497	5300.940	25.7497	-0.00000
29.1653	5654.080	29.1653	0.00001
32.6981	6036.015	32.6981	0.00000

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 ITS-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