SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1324
CALIBRATION DATE: 08-Jun-99

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.85855223e-003
h = 6.80001606e-004
i = 2.89057126e-005
j = 2.51797584e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68143921e-003
b = 5.98944366e-004
c = 1.49314339e-005
d = 2.51946600e-006
f0 = 6382.181

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5167	6382.181	-1.5167	-0.00004
1.0440	6759.910	1.0440	0.00002
4.6176	7313.626	4.6177	0.00008
8.1242	7887.793	8.1242	0.00001
11.6279	8492.813	11.6278	-0.00005
15.1881	9140.459	15.1880	-0.00009
18.6516	9803.057	18.6517	0.00002
22.1526	10506.099	22.1526	0.00002
25.6802	11249.022	25.6802	0.00004
29.1515	12014.561	29.1515	0.00003
32.6261	12815.666	32.6261	-0.00005

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