SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1324
CALIBRATION DATE: 25-Jun-96

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.85855941e-003
h = 6.79997768e-004
i = 2.89018905e-005
j = 2.51445420e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68159870e-003
b = 5.98925181e-004
c = 1.49489096e-005
d = 2.51594610e-006
f0 = 6380.733

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5285	6380.733	-1.5285	-0.00002
1.0321	6758.405	1.0322	0.00000
4.6059	7312.091	4.6060	0.00007
8.1116	7886.072	8.1116	0.00000
11.6146	8490.924	11.6146	-0.00005
15.1749	9138.535	15.1748	-0.00007
18.6375	9800.916	18.6375	0.00003
22.1384	10503.909	22.1384	0.00005
25.6657	11246.721	25.6656	-0.00002
29.1370	12012.267	29.1370	0.00002
32.6118	12813.404	32.6117	-0.00002

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