SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1367
CALIBRATION DATE: 06-Jul-06

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86127517e-003
h = 6.77017333e-004
i = 2.74975004e-005
j = 2.23053490e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121387e-003
b = 5.97941880e-004
c = 1.50602749e-005
d = 2.23199671e-006
f0 = 6440.856

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	6440.856	-1.5001	-0.00002
0.9999	6813.434	0.9999	0.00002
4.4999	7360.845	4.4999	0.00002
7.9999	7939.123	7.9998	-0.00005
11.4999	8549.122	11.4999	0.00001
14.9999	9191.611	14.9999	0.00002
18.4999	9867.359	18.4999	-0.00001
21.9999	10577.134	21.9999	0.00002
25.4999	11321.624	25.4999	-0.00002
28.9999	12101.544	28.9999	0.00001
32.4999	12917.526	32.4999	-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