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: 4105
CALIBRATION DATE: 22-Feb-05

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.39435592e-003
h = 6.48105239e-004
i = 2.33856256e-005
j = 2.11001719e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121062e-003
b = 6.03074348e-004
c = 1.61804689e-005
d = 2.11155703e-006
f0 = 3134.952

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4998	3134.952	-1.4999	-0.00007
1.0002	3314.734	1.0003	0.00010
4.5002	3578.767	4.5002	0.00004
8.0002	3857.587	8.0002	-0.00001
11.5002	4151.587	11.5001	-0.00008
15.0002	4461.167	15.0002	-0.00003
18.5002	4786.687	18.5002	-0.00000
22.0002	5128.515	22.0003	0.00006
25.5002	5486.987	25.5002	0.00002
29.0002	5862.449	29.0002	0.00000
32.5002	6255.221	32.5002	-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