SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1692
CALIBRATION DATE: 14-Nov-00s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.80183833e-03
h = 6.71729502e-04
i = 2.54951452e-05
j = 2.00539190e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68127028e-03
b = 6.00452363e-04
c = 1.48699839e-05
d = 2.00681151e-06
f_0 = 5874.425

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5043	5874.425	-1.5043	-0.00003
1.0569	6221.229	1.0569	0.00000
4.6315	6729.561	4.6315	0.00005
8.1382	7256.475	8.1382	0.00004
11.6405	7811.377	11.6405	-0.00002
15.2009	8405.561	15.2008	-0.00003
18.6643	9013.332	18.6641	-0.00015
22.1645	9658.139	22.1645	0.00009
25.6919	10339.594	25.6919	0.00009
29.1622	11041.664	29.1622	0.00002
32.6365	11776.545	32.6364	-0.00005

Temperature ITS-90 $= 1/\{g + h[\ell n(f_0/f)] + i[\ell n^2(f_0/f)] + j[\ell n^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 $= 1/\{a + b[\ell n(f_0/f)] + c[\ell n^2(f_0/f)] + d[\ell n^3(f_0/f)]\} - 273.15$ (°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