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 = 1609
CALIBRATION DATE: 19-Jun-01s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86584016e-03
h = 6.79809001e-04
i = 2.61315502e-05
j = 2.01051410e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68120912e-03
b = 6.03728610e-04
c = 1.49636947e-05
d = 2.01195080e-06
f_0 = 6398.863

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4999	6398.863	-1.4998	0.00014
1.0001	6765.307	1.0000	-0.00011
4.5001	7303.370	4.4999	-0.00018
8.0001	7871.353	8.0001	-0.00003
11.5001	8470.004	11.5002	0.00012
15.0001	9100.095	15.0005	0.00041
18.5001	9762.159	18.4999	-0.00020
22.0001	10457.172	21.9999	-0.00023
25.5001	11185.759	25.5001	0.00001
29.0001	11948.468	29.0001	0.00005
32.5001	12745.946	32.5001	0.00003

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