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 = 1075
CALIBRATION DATE: 27-Feb-03s

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86487382e-03
h = 6.82464030e-04
i = 2.67500991e-05
j = 1.99035520e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68121183e-03
b = 6.04068124e-04
c = 1.57306752e-05
d = 1.99184798e-06
f_0 = 6360.435

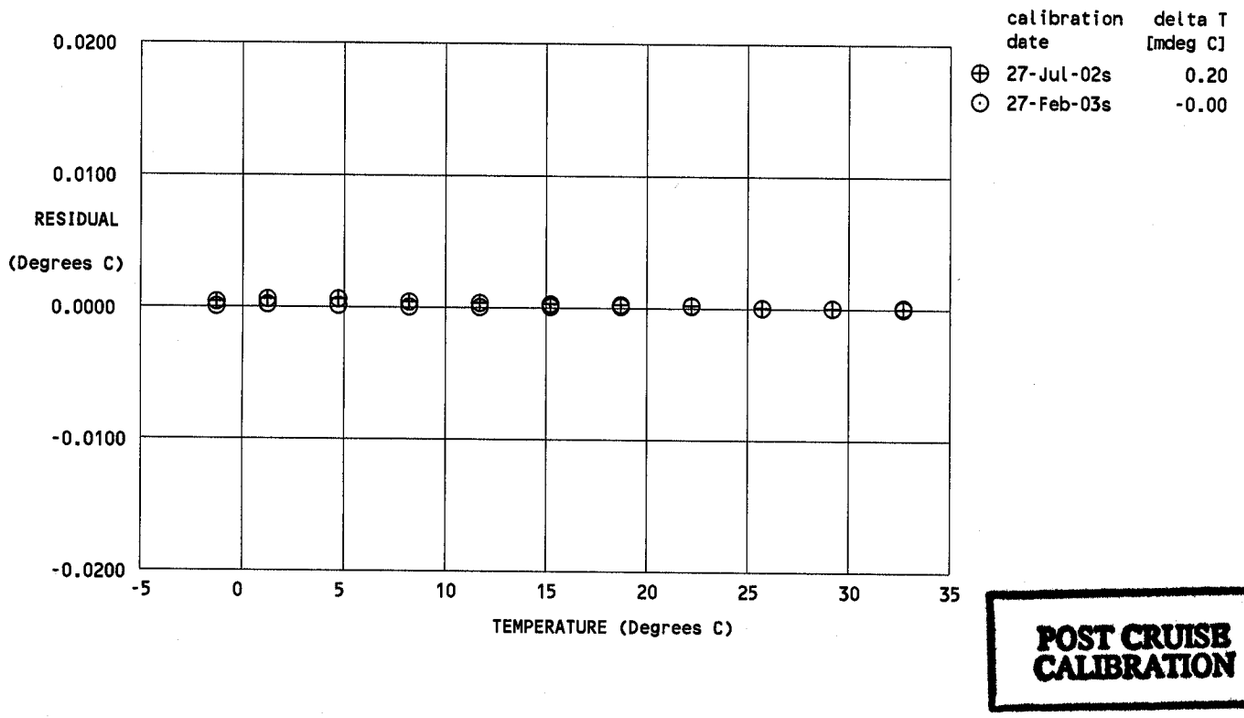
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4999	6360.435	-1.5000	-0.00006
1.0001	6724.556	1.0002	0.00010
4.5002	7259.210	4.5002	0.00003
8.0002	7823.642	8.0001	-0.00006
11.5002	8418.676	11.5001	-0.00005
15.0002	9045.070	15.0002	-0.00000
18.5002	9703.561	18.5002	0.00004
22.0002	10394.865	22.0003	0.00007
25.5002	11119.647	25.5002	-0.00005
29.0002	11878.633	29.0002	-0.00003
32.5002	12672.443	32.5002	0.00002

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



POST CRUISE CALIBRATION