Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0043 CALIBRATION DATE: 27-Jan-12

SBE 49 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 8.465392e - 004a1 = 2.813514e-004a2 = -2.170496e-006a3 = 1.880379e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	755510.441	1.0001	0.0001
4.4999	668947.051	4.4997	-0.0002
15.0000	448765.814	15.0001	0.0001
18.5000	388354.492	18.5001	0.0001
24.0000	305464.695	23.9998	-0.0002
29.0000	241691.780	29.0000	-0.0000
32.5000	202893.051	32.5001	0.0001

MV = (n - 524288) / 1.6e + 007

R = (MV * 2.295e+010 + 9.216e+008) / (6.144e+004 - MV * 5.3e+005)

Temperature ITS-90 = $1/{a0 + a1[ln(R)] + a2[ln^2(R)] + a3[ln^3(R)]} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)

