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: 0041 CALIBRATION DATE: 12-Mar-15

SBE 49 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.699538e-004 a1 = 2.752088e-004 a2 = -1.413401e-006 a3 = 1.899056e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	682087.426	1.0001	0.0001
4.5000	601808.090	4.4998	-0.0002
14.9999	399699.975	15.0000	0.0001
18.5000	344654.393	18.5001	0.0001
23.9999	269326.529	23.9999	-0.0000
29.0000	211474.623	28.9998	-0.0002
32.5000	176292.115	32.5002	0.0002

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

 $R = \left(MV * 2.295 e + 010 + 9.216 e + 008\right) / \left(6.\ 144 e + 004 - MV * 5.3 e + 005\right)$

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

Residual = instrument temperature - bath temperature

