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: 0813 CALIBRATION DATE: 25-Nov-15 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.694693e-005 a1 = 2.713672e-004 a2 = -2.140720e-006 a3 = 1.525071e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	743611.1	-1.5000	0.0000
1.0000	664051.9	1.0000	-0.0000
4.5000	568384.3	4.5000	-0.0000
8.0000	488082.2	8.0000	-0.0000
11.5000	420450.3	11.5000	0.0000
15.0000	363303.2	15.0000	0.0000
18.5000	314860.4	18.5000	0.0000
22.0000	273668.3	22.0000	0.0000
25.5000	238535.9	25.5000	-0.0000
29.0000	208483.1	28.9999	-0.0001
32.5000	182701.1	32.5001	0.0001

n = Instrument Output (counts)

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

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

