Sea-Bird Scientific 13431 NE 20th Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 0340 CALIBRATION DATE: 06-Oct-17

SBE 45 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.805531e-005 a1 = 2.687911e-004 a2 = -2.020067e-006 a3 = 1.402323e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	622620.8	1.0000	0.0000
4.5000	531100.1	4.4999	-0.0001
14.9999	336216.3	14.9999	0.0000
18.5000	290508.0	18.5000	0.0000
23.9999	232298.4	24.0000	0.0001
29.0000	190734.9	28.9998	-0.0002
32.4999	166704.1	32.5000	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

