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: 0040
CALIBRATION DATE: 07-Sep-11

SBE GLIDER PAYLOAD CTD
CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -9.747321e-001
h =  1.477069e-001
i =  1.351316e-004
j =  2.044392e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.2479e-008
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2564.70	0.00000	0.00000
1.0000	35.0036	2.99044	5159.58	2.99046	0.00002
4.5000	34.9832	3.29891	5355.30	3.29891	-0.00000
15.0000	34.9395	4.28512	5936.99	4.28509	-0.00003
18.5000	34.9295	4.63176	6128.05	4.63175	-0.00001
23.9999	34.9182	5.19209	6424.56	5.19213	0.00004
29.0000	34.9113	5.71612	6689.61	5.71614	0.00002
32.5000	34.9062	6.08989	6872.20	6.08987	-0.00002

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \varepsilon p)$ Siemens/meter

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity