

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 2130
CALIBRATION DATE: 22-Jun-05SBE21 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

$g = -4.05622592e+000$
 $h = 4.83482657e-001$
 $i = 1.42023807e-003$
 $j = -3.95137209e-005$
 $CP_{cor} = -9.5700e-008$ (nominal)
 $CT_{cor} = 3.2500e-006$ (nominal)

ABCDM COEFFICIENTS

$a = 5.22450999e-002$
 $b = 4.27807598e-001$
 $c = -4.04344589e+000$
 $d = -1.42403009e-004$
 $m = 2.1$
 $CP_{cor} = -9.5700e-008$ (nominal)

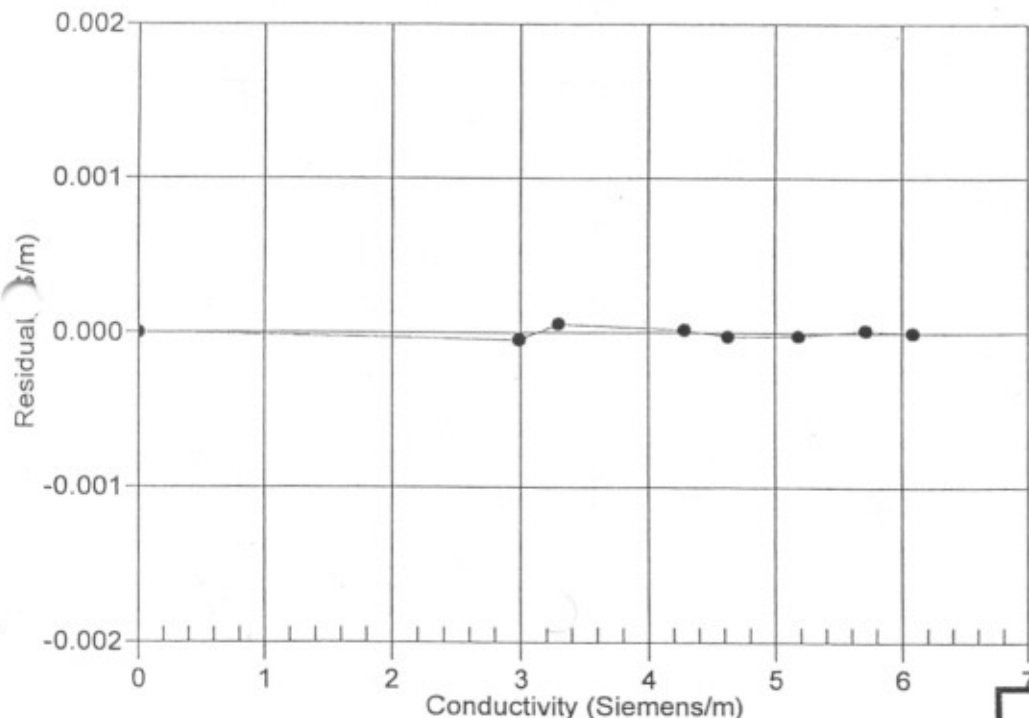
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2.88526	0.00000	0.00000
1.0000	34.9394	2.98548	8.29745	2.98543	-0.00005
4.5000	34.9190	3.29346	8.66379	3.29351	0.00006
15.0000	34.8754	4.27809	9.74164	4.27811	0.00002
18.5000	34.8663	4.62428	10.09297	4.62426	-0.00002
24.0000	34.8568	5.18398	10.63628	5.18396	-0.00002
29.0000	34.8520	5.70751	11.12031	5.70752	0.00002
32.5000	34.8498	6.08117	11.45314	6.08117	-0.00000

$$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p) \text{ Siemens/meter}$$

$$\text{Conductivity} = (af^m + bf^2 + c + dt) / [10(1 + \epsilon p)] \text{ Siemens/meter}$$
 $t = \text{temperature}[^{\circ}\text{C}]; p = \text{pressure}[\text{decibars}]; \delta = CT_{cor}; \epsilon = CP_{cor};$
 $\text{Residual} = (\text{instrument conductivity} - \text{bath conductivity}) \text{ using } g, h, i, j \text{ coefficients}$

Date, Slope Correction

● 22-Jun-05 1.0000000



**CALIBRATION
AFTER
MODIFICATIONS**