

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6353  
CALIBRATION DATE: 30-Dec-14

SBE 19plus V2 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

### COEFFICIENTS:

g = -1.012004e+000  
h = 1.503139e-001  
i = -1.877824e-004  
j = 3.579093e-005

CPcor = -9.5700e-008  
CTcor = 3.2500e-006

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	2596.86	0.0000	0.00000
1.0000	34.7358	2.96974	5147.12	2.9697	0.00000
4.5000	34.7161	3.27620	5340.90	3.2762	-0.00000
15.0000	34.6734	4.25593	5917.31	4.2559	0.00000
18.5000	34.6644	4.60039	6106.80	4.6004	-0.00001
24.0000	34.6546	5.15723	6401.01	5.1572	0.00001
29.0000	34.6492	5.67802	6664.14	5.6780	-0.00000
32.5000	34.6460	6.04964	6845.57	6.0497	0.00005

$$f = \text{INST FREQ} / 1000.0$$

$$\text{Conductivity} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p) \text{ Siemens / meter}$$

t = temperatur e[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = instrument conductivity - bath conductivity

