Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 0028
CALIBRATION DATE: 11-May-22

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

COEFFICIENTS:

```
g = -9.953852e-001
h =  1.478446e-001
i = -2.381937e-004
j =  3.731949e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.5666e-007
```

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2597.95	0.00000	0.00000
1.0000	34.6440	2.96264	5178.20	2.96264	0.00000
4.5000	34.6243	3.26839	5373.95	3.26839	-0.00000
15.0000	34.5825	4.24596	5956.15	4.24596	0.00001
18.5000	34.5736	4.58963	6147.50	4.58964	0.00000
24.0000	34.5639	5.14521	6444.56	5.14520	-0.00002
29.0000	34.5560	5.66446	6710.04	5.66447	0.00001
32.5000	34.5493	6.03467	6892.86	6.03459	-0.00008

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity