

T-1000 Temperature Express (TPX)

Client Report

Client	None
Service Provider	None
Well	Testwell2
Field	Undefined
Hole Section	8.5"
Country	U.K.
Job Date	02 Apr 2023
Report Date	02 Apr 2023
Reporter	Chris Wells

Basic Operations Data

Well Depth	4550.0 m
Casing Shoe Depth	3518.0 m
Fluid Type	OBM
Density	1.6 g/cc
Viscosity	50s
pH	NA
Fluid Loss	2.8 cm ³

Basic Data Comments

Wiper trip performed prior to last 3 runs

Run Summary

Run	T-1000 (m) from log ref	Max Temp (degC)	Run Start (UTC)	Run End (UTC)	Max Depth (m)
Run 2	-22.65	111.09	16 Mar 2023 12:36:11	17 Mar 2023 05:49:59	4248.8
Run 3	-40.46	98.75	17 Mar 2023 10:13:59	17 Mar 2023 14:58:59	3392.6
Run 4	-24.41	110.69	17 Mar 2023 16:33:11	17 Mar 2023 22:54:47	4268.6
Run 5	-24.51	112.66	18 Mar 2023 01:37:23	18 Mar 2023 07:49:23	4416.3
Run 6	-22.47	112.95	18 Mar 2023 09:55:23	18 Mar 2023 15:24:11	4418.8
Run 7	-20.78	111.41	19 Mar 2023 20:00:47	20 Mar 2023 01:01:23	4420.1
Run 8	-7.81	112.62	20 Mar 2023 03:41:35	21 Mar 2023 00:10:23	4412.9
Run 9	-7.90	111.10	21 Mar 2023 04:22:59	21 Mar 2023 15:57:11	4306.1

Run details

Run 2

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	111.09	17 Mar 2023 01:05	4197.8
00004	111.09	17 Mar 2023 01:05	4197.8

Run 3

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	98.71	17 Mar 2023 12:29	3328.2
00004	98.75	17 Mar 2023 12:29	3326.5

Run 4

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	110.69	17 Mar 2023 19:12	4121.1
00004	110.69	17 Mar 2023 19:12	4118.5

Run 5

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	112.64	18 Mar 2023 03:45	4328.5
00004	112.66	18 Mar 2023 03:44	4335.0

Run 6

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	112.95	18 Mar 2023 12:21	4317.1
00004	112.92	18 Mar 2023 12:20	4330.7

Run 7

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	111.39	19 Mar 2023 21:38	4372.3
00004	111.41	19 Mar 2023 21:39	4365.3

Run 8

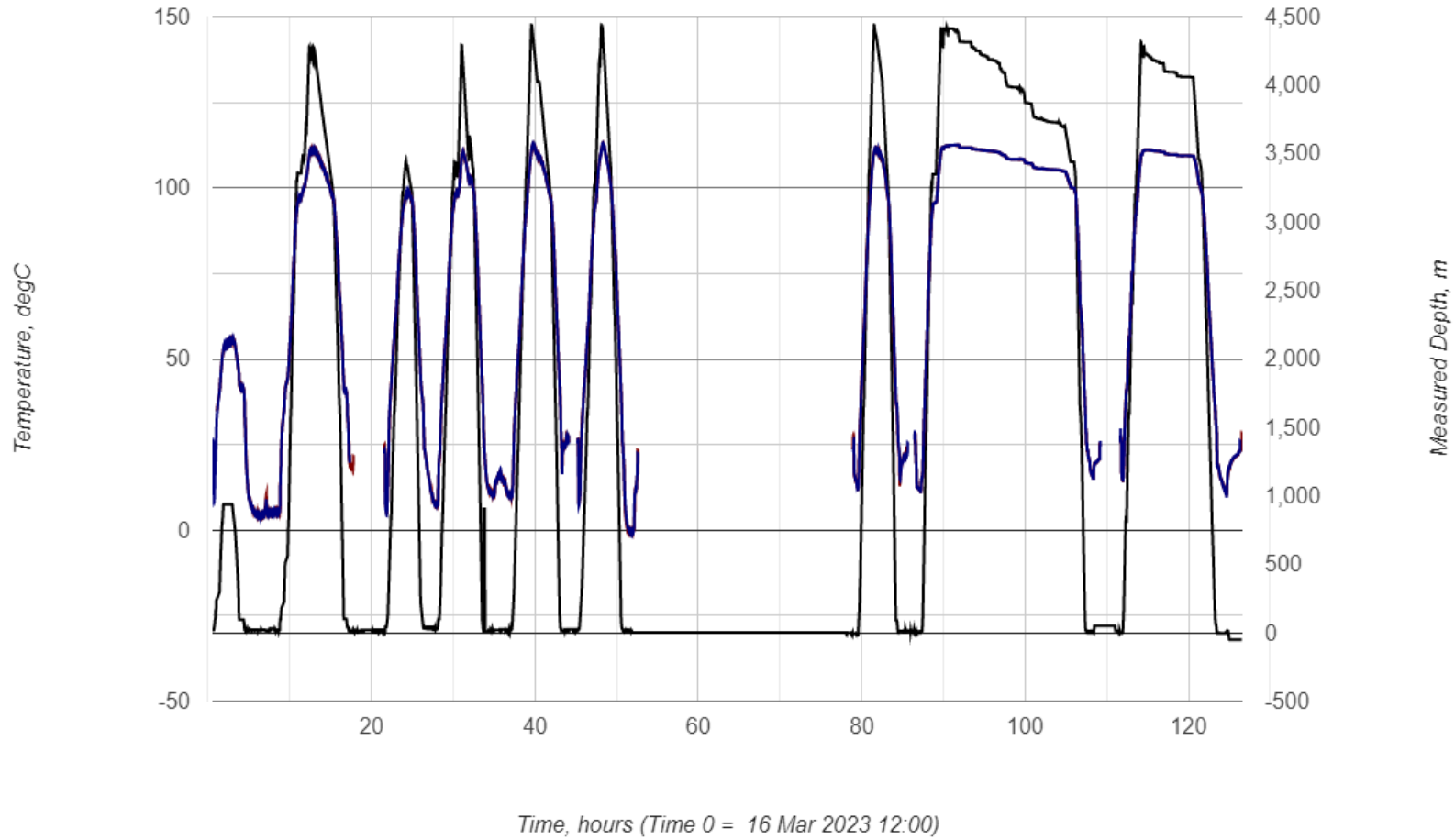
T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	112.60	20 Mar 2023 07:45	4380.3
00004	112.62	20 Mar 2023 07:46	4380.3

Run 9

T-1000 Equipment	Max Temp (degC)	...at DateTime	...at Depth (m)
00003	111.10	21 Mar 2023 06:55	4216.9
00004	111.10	21 Mar 2023 06:55	4211.7

Depth and Temperature versus Time

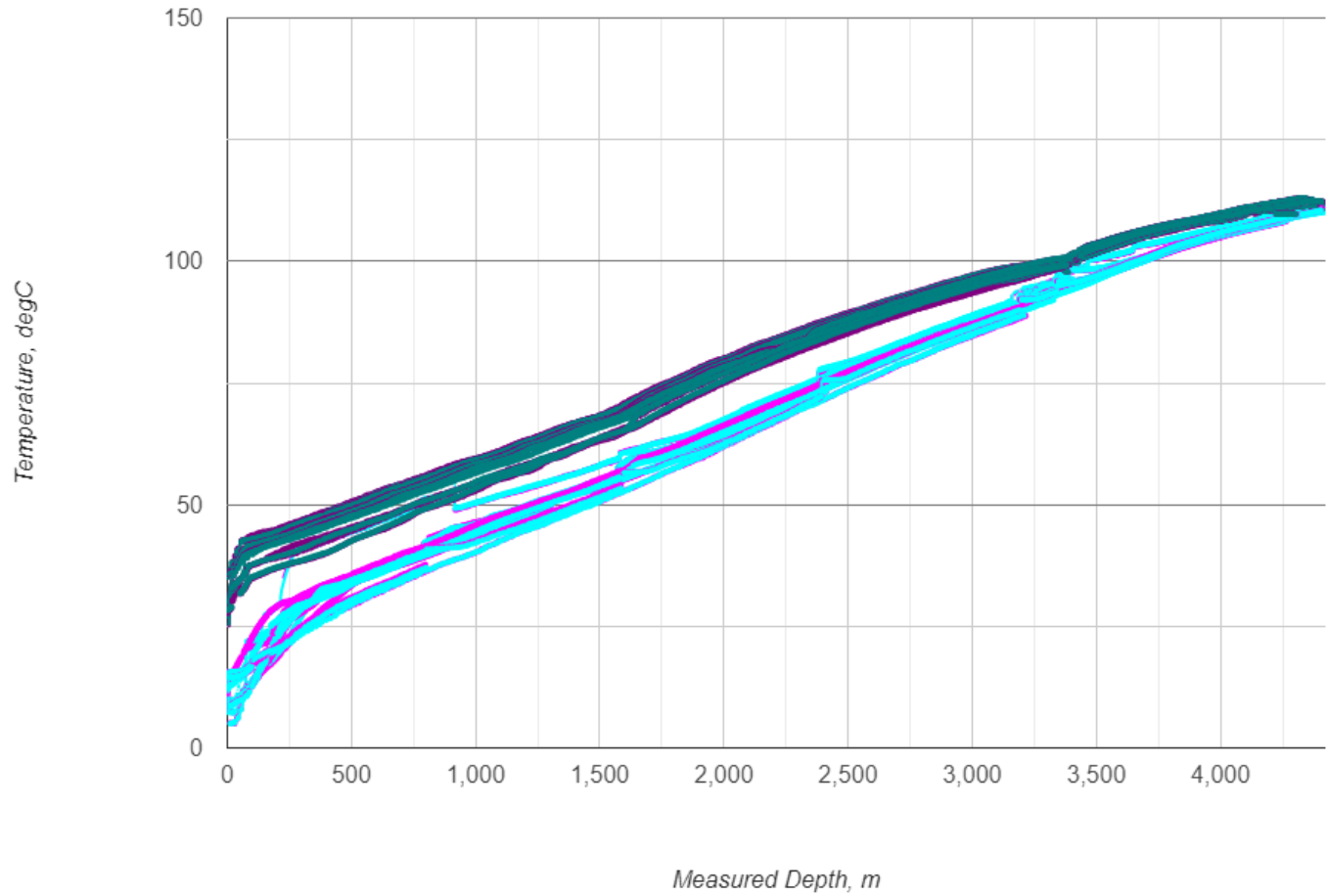
— Measured Depth, m — 00003, degC — 00004, degC



Temperature versus Depth, all runs

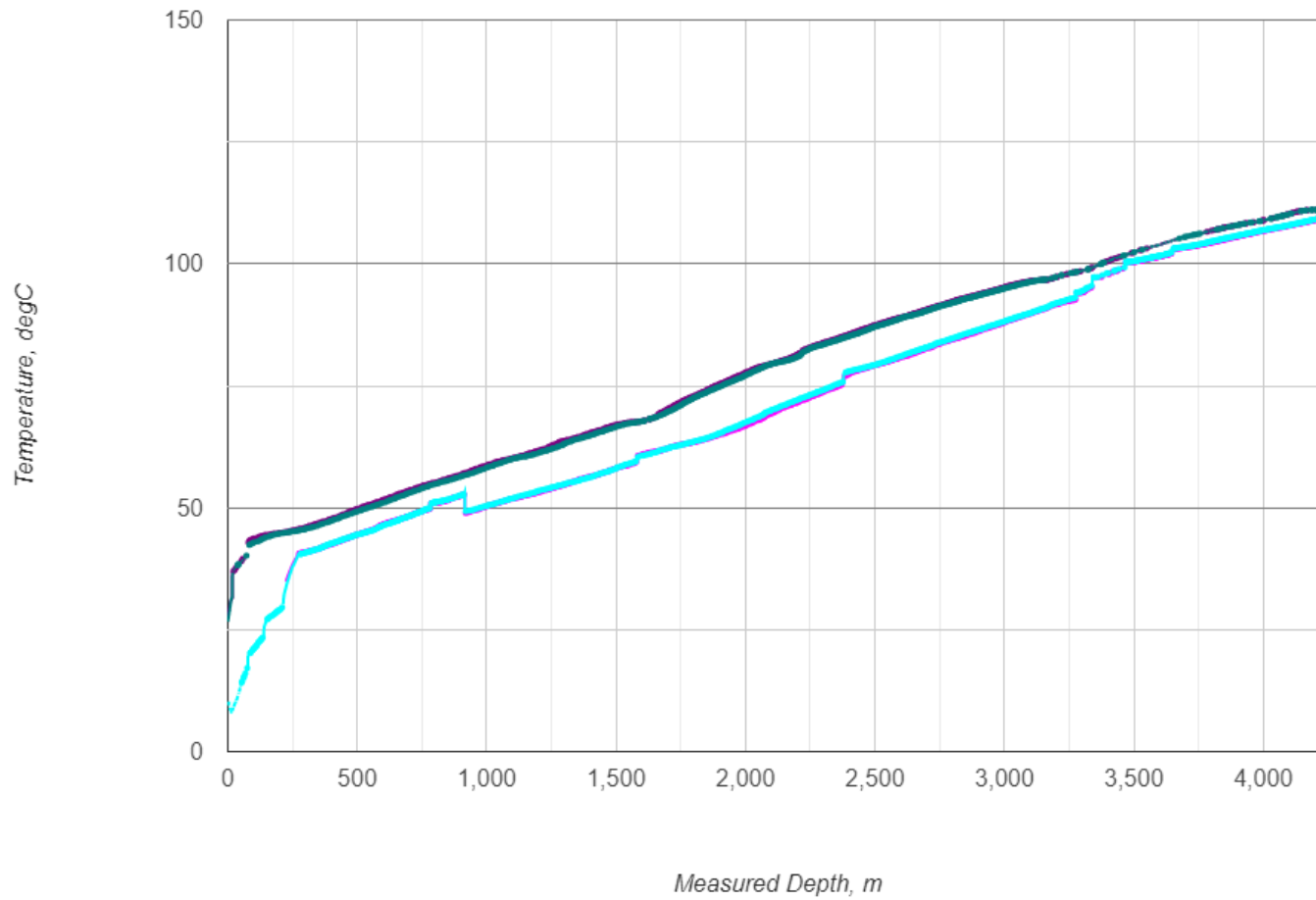
00003 run 1, down 00004 run 1, down 00003 run 1, up
00004 run 1, up 00003 run 2, down 00004 run 2, down

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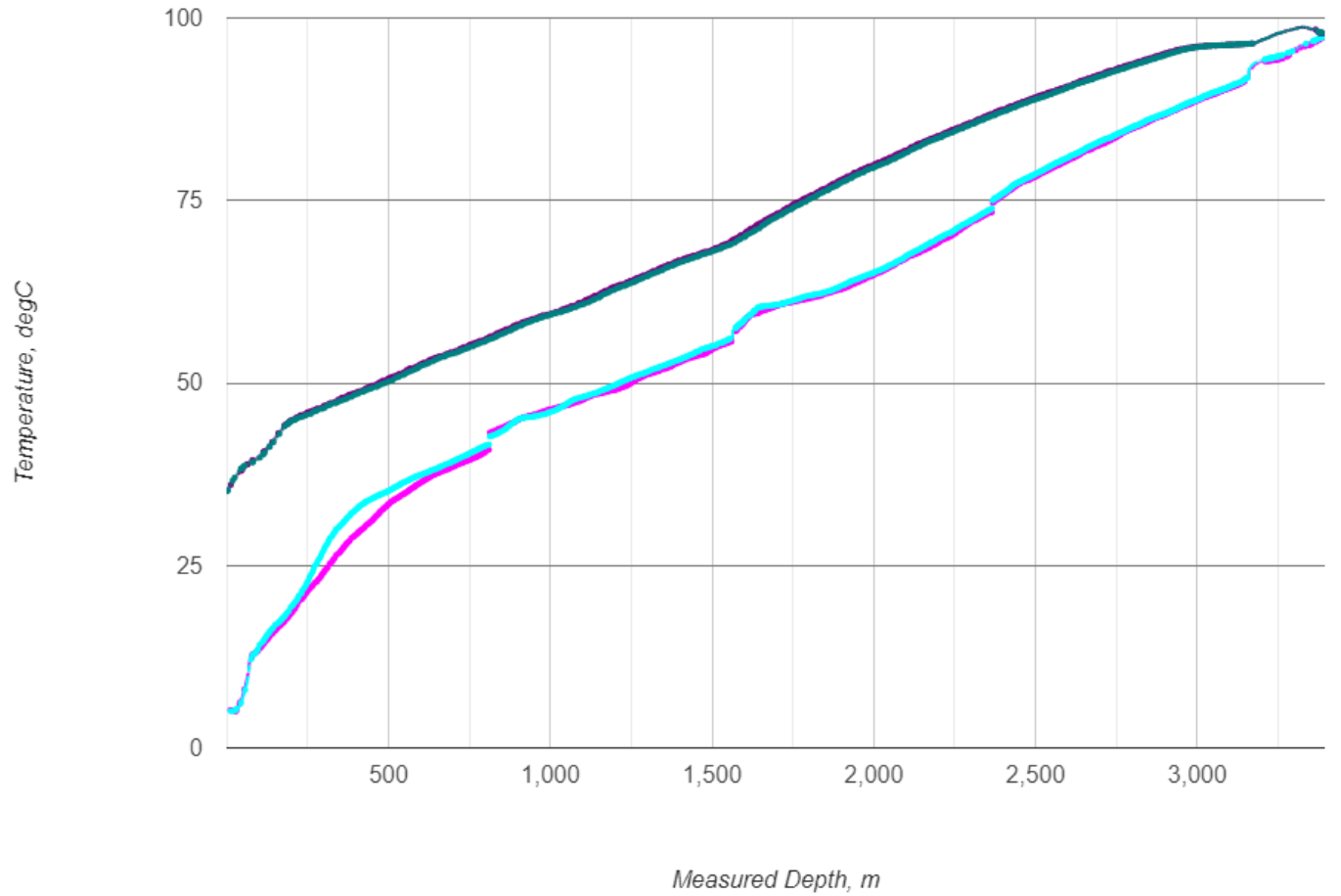
Temperature versus Depth, Run 2

00003 run 1, down 00004 run 1, down 00003 run 1, up 00004 run 1, up



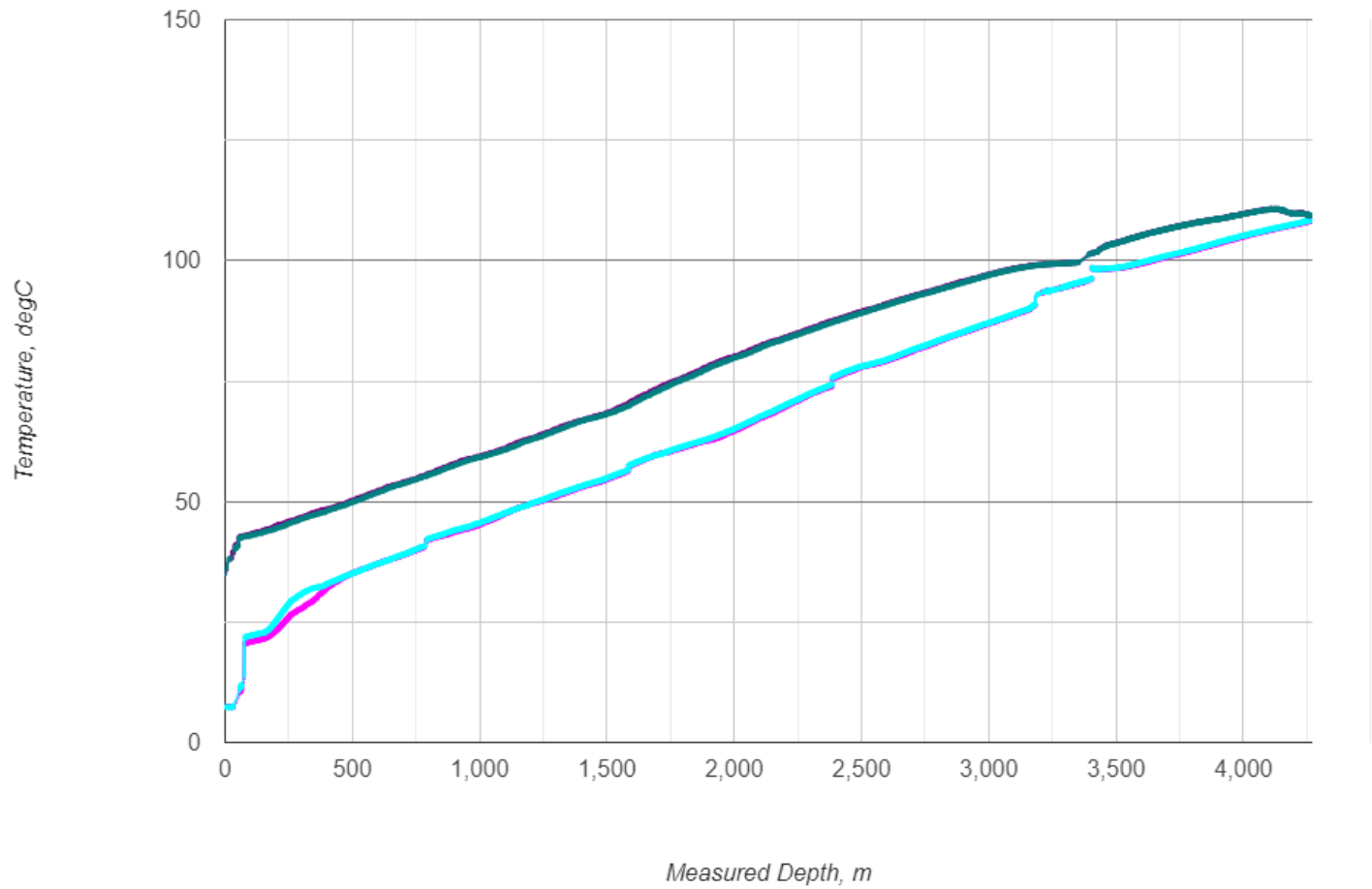
Temperature versus Depth, Run 3

00003 run 2, down 00004 run 2, down 00003 run 2, up 00004 run 2, up



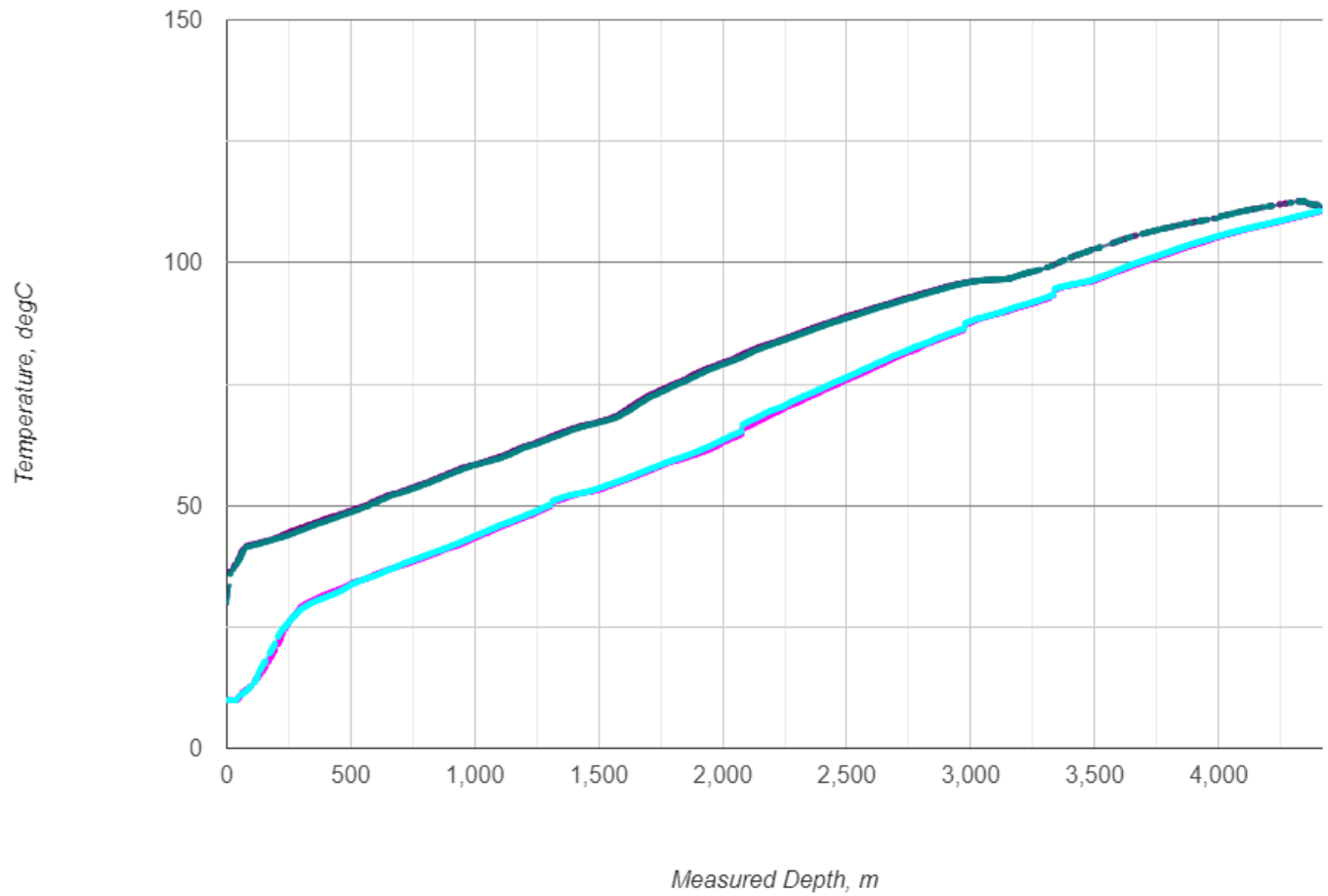
Temperature versus Depth, Run 4

00003 run 3, down 00004 run 3, down 00003 run 3, up 00004 run 3, up



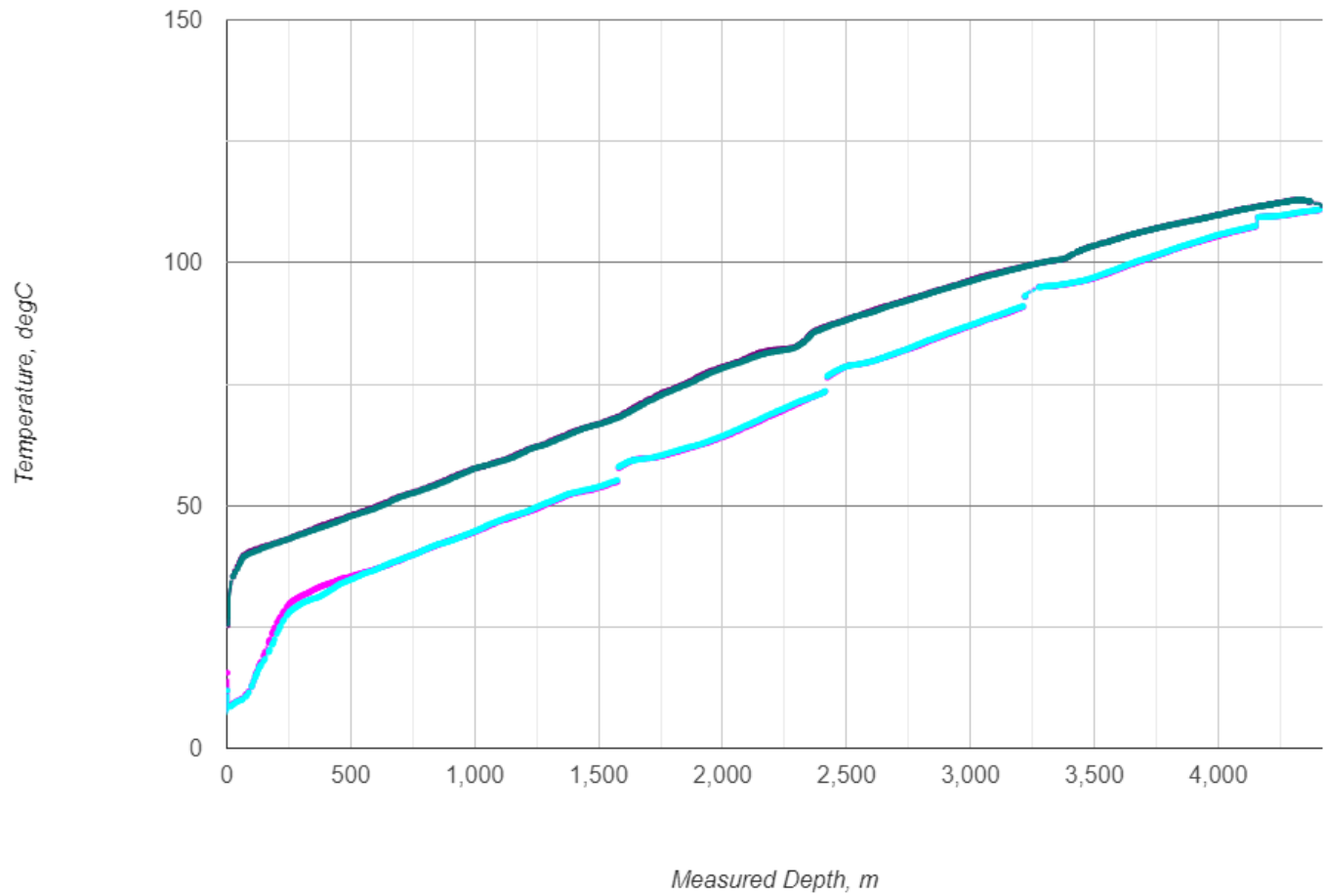
Temperature versus Depth, Run 5

00003 run 4, down 00004 run 4, down 00003 run 4, up 00004 run 4, up



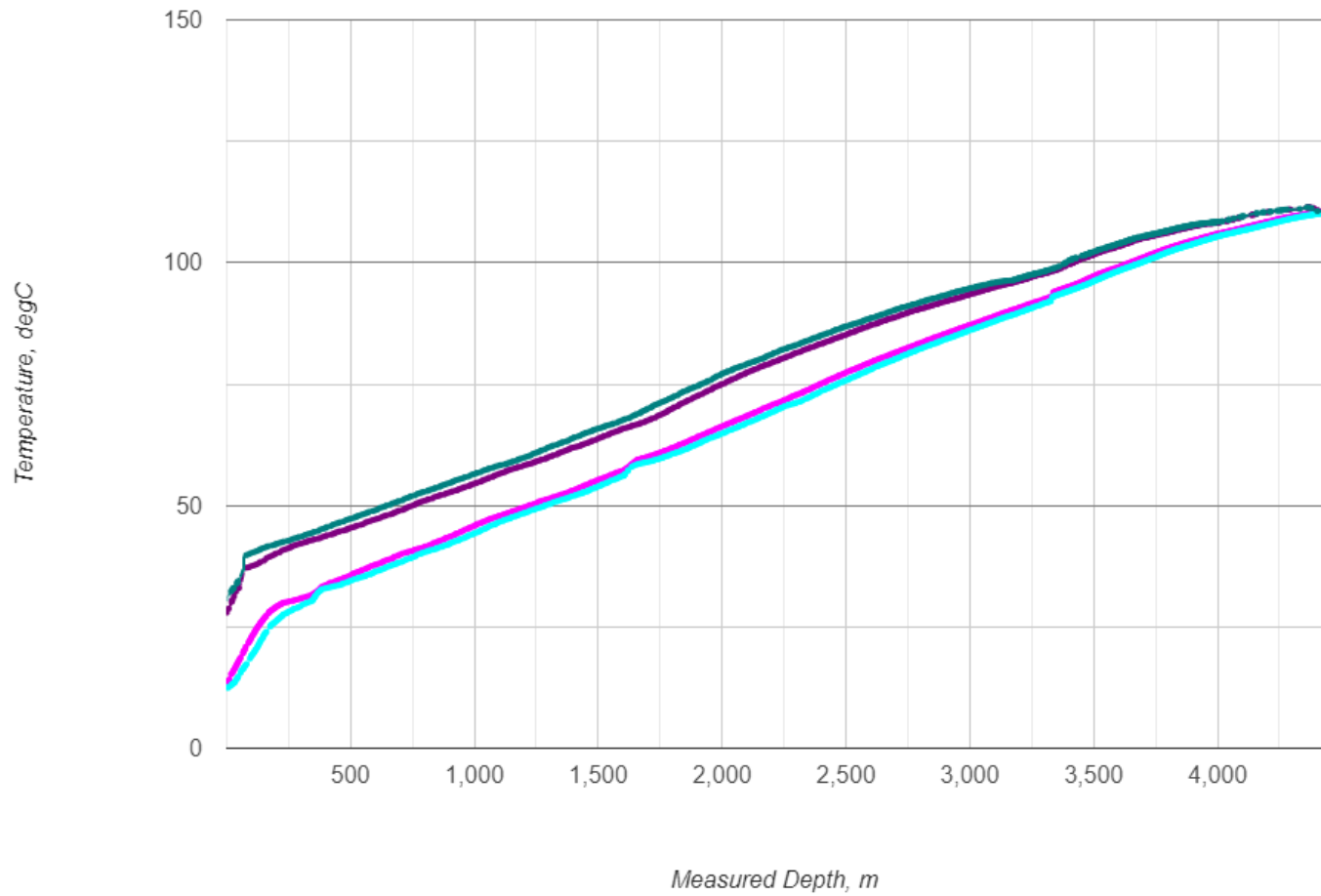
Temperature versus Depth, Run 6

00003 run 5, down 00004 run 5, down 00003 run 5, up 00004 run 5, up



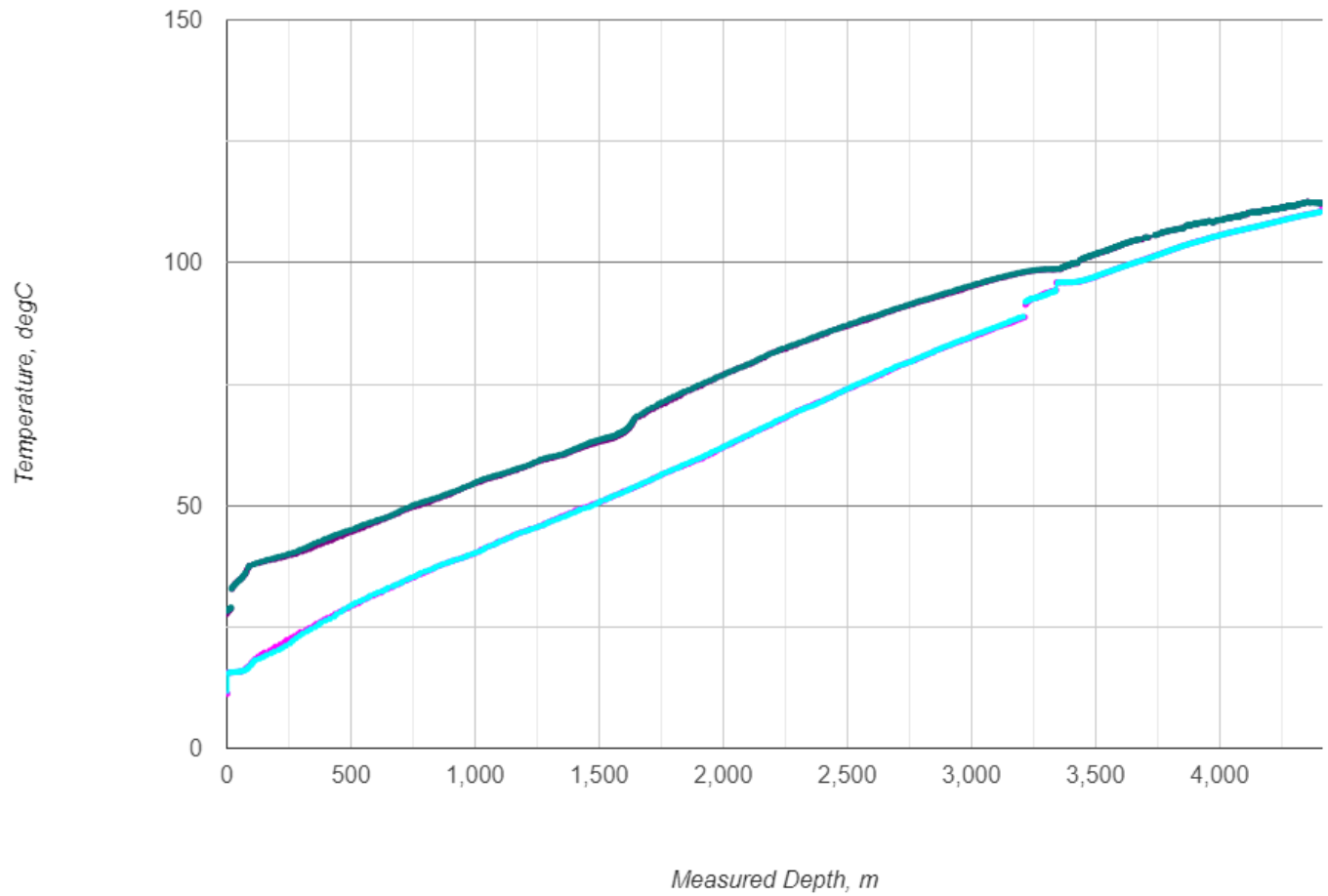
Temperature versus Depth, Run 7

00003 run 6, down 00004 run 6, down 00003 run 6, up 00004 run 6, up



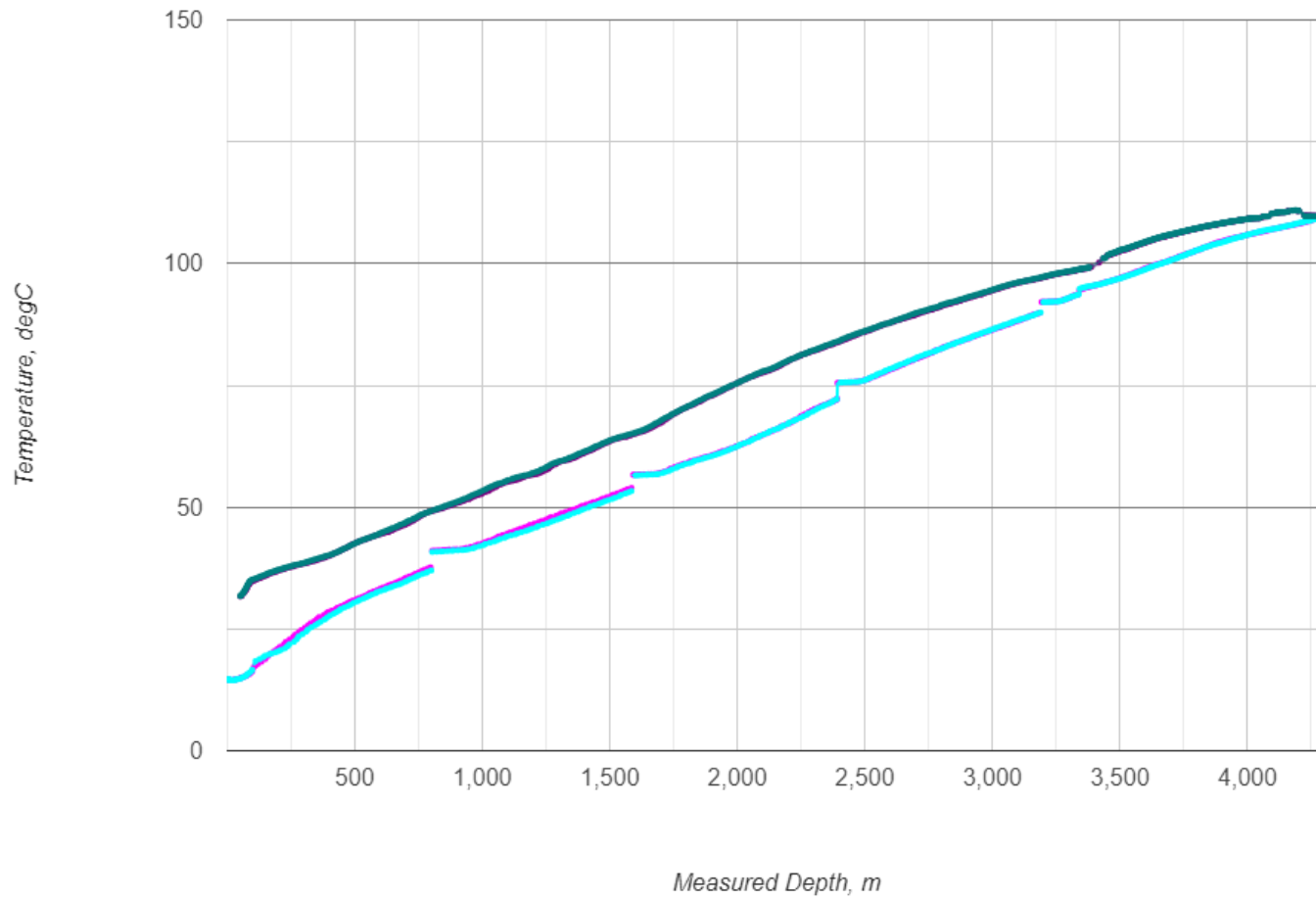
Temperature versus Depth, Run 8

00003 run 7, down 00004 run 7, down 00003 run 7, up 00004 run 7, up



Temperature versus Depth, Run 9

00003 run 8, down 00004 run 8, down 00003 run 8, up 00004 run 8, up



T-1000 Electronics 00003

Maintenance Event Performed by Chris Wells on 29 Jan 2023
Computation Performed on 29 Jan 2023 using ODB version 1.58

Coefficients

a	b	c	d
-2.717017e+1	1.094856e-2	1.450668e-7	-2.380009e-12

Note: $\text{CalibratedValue} = a + b \cdot \text{Raw} + c \cdot \text{Raw}^2 + d \cdot \text{Raw}^3$

Raw measurements and calculated Residuals

Reference (degC)	Raw Value	Residual
32.5	5129.2	-0.01
52.8	6768.8	0.06
78.0	8736.1	-0.03
104.3	10747.5	0.02
129.7	12647.8	0.01
154.4	14472.1	0.06
162.3	15043.6	-0.02

Note: $\text{Residual} = \text{Modeled value} - \text{Reference}$

Calibration Summary for Thermometer Sensor

T-1000 Electronics 00004

Maintenance Event Performed by Chris Wells on 18 May 2022
Computation Performed on 20 May 2022 using ODB version 1.57

Coefficients

a	b	c	d
-3.064441e+1	1.181420e-2	4.883903e-8	7.325774e-13

Note: $\text{CalibratedValue} = a + b \cdot \text{Raw} + c \cdot \text{Raw}^2 + d \cdot \text{Raw}^3$

Raw measurements and calculated Residuals

Reference (degC)	Raw Value	Residual
22.1	4382.9	0.05
41.3	5926.4	-0.05
71.0	8282.1	-0.02
99.6	10509.5	0.17
120.1	12045.3	-0.06
139.5	13491.3	-0.05
148.5	14156.8	-0.01
158.6	14900.7	0.08

Note: $\text{Residual} = \text{Modeled value} - \text{Reference}$