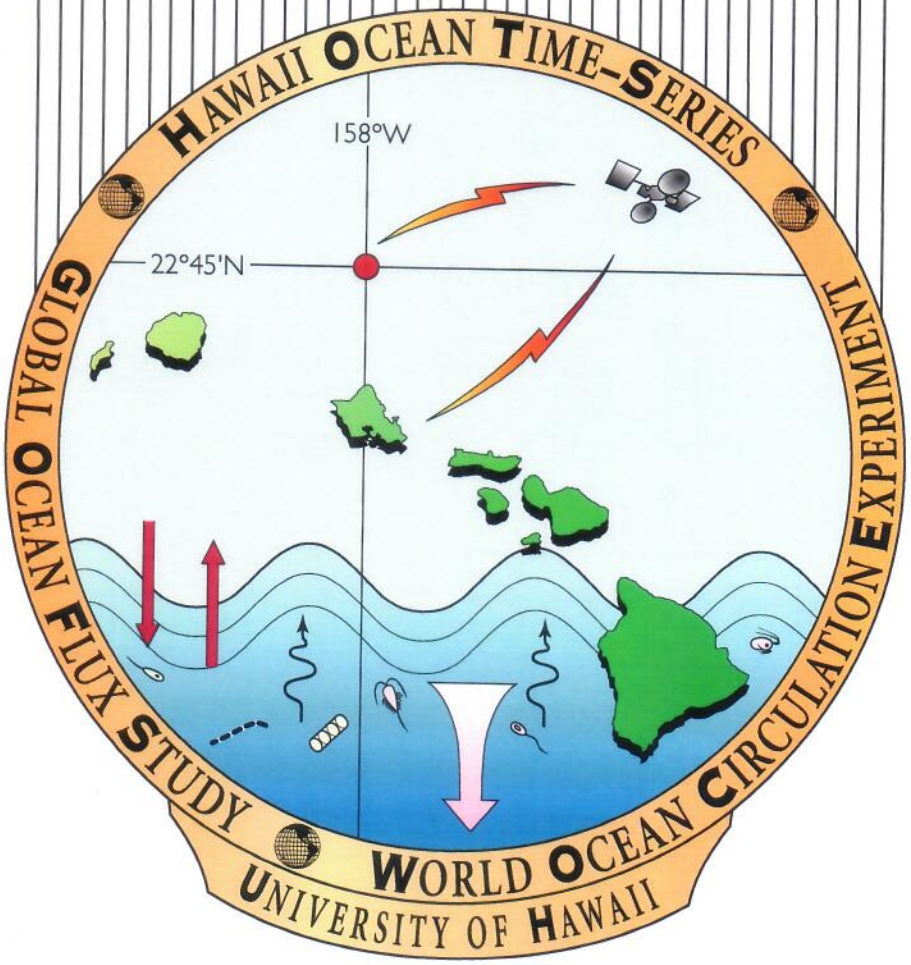
# Hawaii Ocean Time-series Program

# HOT 366



# Hawaii Ocean Time-Series

## HOT-366

## KAHE Station Data Sheet

Station # 1 Date: 9/16/26 (HST)

Cast # 1 Time: 1354 (HST)

Operator(s): MDF,BB,SDM,HM,MB

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ Alk | pH | Nuts | LLN/ LLP | Chl *a* | PD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 1 | 7.7 | | | | | | |
| 2 | **750** | 2,3,4 | 8.7 | | | | | | |
| 3 | **500** | 5 | 10.3 | | | | | | |
| 4 | **350** | 6 | 12.2 | | | 4 | | | |
| 5 | **250** | 7 | 16.7 | | | 5 | | | |
| 6 | **175** | | | | | | | 6 | |
| 7 | **150** | 8 | 21.2 | | | 7 | 7 | 7 | |
| 8 | **125** | | | | | | | 8 | |
| 9 | **100** | 9,10,11 | 23.3 | | | 9 | 9 | 9 A-B | |
| 10 | **75** | | | | | | | 10 | |
| 11 | **45** | 12 | 27.1 | 11 | 1 | 11 | 11 | 11 | |
| 12 | **25** | 13 | 27.3 | 12 | 2 | | | 12A-B | |
| 13 | **5** | 14 | 27.4 | 13 | 3,4,5 | 13 | 13 | 13 | |
| 14 | **5** | QC | 27.7 | | | | | | |
| 15 | **5** | QC | 27.4 | | | | | | |
| 16 | **5** | | | | | | | | X |
| 17 | **5** | | | | | | | | X |
| 18 | **5** | | | | | | | | X |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-Series

HOT-366

KAHE Station Data Sheet

Station # 1 Date: 9/16/26 (HST)

Cast # 1 Time: 1354 (HST)

Operator(s): MOF, BB, SSM, MB, HM

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ Alk | pH | Nuts | LLN/ LLP | Chl *a* | PD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 1 | 7.7 | | | | | | |
| 2 | **750** | 2,3,4 | 8.7 | | | | | | |
| 3 | **500** | 5 | 10.3 | | | | | | |
| 4 | **350** | 6 | 12.2 | | | 4 | | | |
| 5 | **250** | 7 | 16.7 | | | 5 | | | |
| 6 | **175** | | | | | | | 6 | |
| 7 | **150** | 8 | 21.2 | | | 7 | 7 | 7 | |
| 8 | **125** | | | | | | | 8 | |
| 9 | **100** | 9,10,11 | 23.3 | | | 9 | 9 | 9 A-B | |
| 10 | **75** | | | | | | | 10 | |
| 11 | **45** | 12 | 27.1 | 11 | 1 | 11 | 11 | 11 | |
| 12 | **25** | 13 | 27.3 | 12 | 2 | | | 12A-B | |
| 13 | **5** | 14 | 27.4 | 13 | 3,4,5 | 13 | 13 | 13 | |
| 14 | **5** | QC | 27.7 | | | | | | |
| 15 | **5** | QC | 27.4 | | | | | | |
| 16 | **5** | | | | | | | | X |
| 17 | **5** | | | | | | | | X |
| 18 | **5** | | | | | | | | X |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Primary Production Data Sheet

Station # 2 Date: 9/17/26 (HST)

Cast # 1 Time: 0200 (HST)

Operator(s): DS, MD,DH

| Rosette Position | Desired Depth | Light Bottle | Chl *a* FCM | | | | |
|---|---|---|---|---|---|---|---|
| 1 | **175** | 1-1 | 1 | | | | |
| 2 | **175** | 1-2 | 2 | | | | |
| 3 | **175** | 1-3 | 3 | | | | |
| 4 | **150** | 2-1 | 4 | | | | |
| 5 | **150** | 2-2 | 5 | | | | |
| 6 | **150** | 2-3 | 6 | | | | |
| 7 | **125** | 3-1 | 7 | | | | |
| 8 | **125** | 3-2 | 8 | | | | |
| 9 | **125** | 3-3 | 9 | | | | |
| 10 | **100** | 4-1 | 10 | | | | |
| 11 | **100** | 4-2 | 11 | | | | |
| 12 | **100** | 4-3 | 12 | | | | |
| 13 | **75** | 5-1 | 13 | | | | |
| 14 | **75** | 5-2 | 14 | | | | |
| 15 | **75** | 5-3 | 15 | | | | |
| 16 | **45** | 6-1 | 16 | | | | |
| 17 | **45** | 6-2 | 17 | | | | |
| 18 | **45** | 6-3 | 18 | | | | |
| 19 | **25** | 7-1 | 19 | | | | |
| 20 | **25** | 7-2 | 20 | | | | |
| 21 | **25** | 7-3 | 21 | | | | |
| 22 | **5** | 8-1 | 22 | | | | |
| 23 | **5** | 8-2 | 23 | | | | |
| 24 | **5** | 8-3 | 24 | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Primary Production Data Sheet

Station # 2
Cast # 1
Operator(s):

Date: 9117/26 (HST)
Time: 0203 (HST)

| Rosette Position | Desired Depth | Light Bottle | Chl *a* FCM | | | | |
|---|---|---|---|---|---|---|---|
| 1 | **175** | 1-1 | 1 | | | | |
| 2 | **175** | 1-2 | 2 | | | | |
| 3 | **175** | 1-3 | 3 | | | | |
| 4 | **150** | 2-1 | 4 | | | | |
| 5 | **150** | 2-2 | 5 | | | | |
| 6 | **150** | 2-3 | 6 | | | | |
| 7 | **125** | 3-1 | 7 | | | | |
| 8 | **125** | 3-2 | 8 | | | | |
| 9 | **125** | 3-3 | 9 | | | | |
| 10 | **100** | 4-1 | 10 | | | | |
| 11 | **100** | 4-2 | 11 | | | | |
| 12 | **100** | 4-3 | 12 | | | | |
| 13 | **75** | 5-1 | 13 | | | | |
| 14 | **75** | 5-2 | 14 | | | | |
| 15 | **75** | 5-3 | 15 | | | | |
| 16 | **45** | 6-1 | 16 | | | | |
| 17 | **45** | 6-2 | 17 | | | | |
| 18 | **45** | 6-3 | 18 | | | | |
| 19 | **25** | 7-1 | 19 | | | | |
| 20 | **25** | 7-2 | 20 | | | | |
| 21 | **25** | 7-3 | 21 | | | | |
| 22 | **5** | 8-1 | 22 | | | | |
| 23 | **5** | 8-2 | 23 | | | | |
| 24 | **5** | 8-3 | 24 | | | | |

**Notes:**

# Hawaii Ocean Time-series
## HOT-366
## WOCE Deep Data Sheet

Station # 2
Cast # 2
Operator(s): DH, DS, MD, LDL, SM, GLP

Date: 9/17/2026 (HST)
Time: 05:00 (HST)

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ Alk | pH | DOC | Nutrient | Refrig. Si |
|---|---|---|---|---|---|---|---|---|
| 1 | **4800** | 15 | 4.2 | | | | 1 | 1 |
| 2 | **4600** | 16 | 4.0 | | | | 2 | 2 |
| 3 | **4500** | 17,18,19 | 4.9 | 3A-B | 1,2,3 | 3ABC | 3A-B | 3A-B |
| 4 | **4400** | 20 | 3.9 | | | | 4 | 4 |
| 5 | **4200** | 21 | 4.0 | | | | 5 | 5 |
| 6 | **4000** | 22 | 4.0 | | | | 6 | 6 |
| 7 | **3800** | 23,24,25 | 5.0 | | | 7ABC | 7A-B | 7A-B |
| 8 | **3600** | 26 | 4.3 | | | | 8 | 8 |
| 9 | **3400** | 27 | 4.7 | | | | 9 | 9 |
| 10 | **3200** | 28 | 4.5 | | | | 10 | 10 |
| 11 | **3000** | 29,~~30~~ 105,31 | 5.4 | 11 | 4 | 11ABC | 11A-B | 11A-B |
| 12 | **2800** | 32 | 4.5 | | | | 12 | 12 |
| 13 | **2600** | 33 | 4.3 | | | | 13 | 13 |
| 14 | **2400** | 34 | 4.3 | | | | 14 | 14 |
| 15 | **2200** | 35 | 5.1 | | | | 15 | 15 |
| 16 | **2000** | 36 | 5.6 | 16 | 5 | 16ABC | 16A-B | 16A-B |
| 17 | **1800** | 37,38,39 | 5.8 | | | | 17 | 17 |
| 18 | **1600** | 40 | 4.7 | | | | 18 | 18 |
| 19 | **1400** | 41 | 5.5 | | | | 19 | 19 |
| 20 | **1200** | 42 | 5.9 | | | | 20 | 20 |
| 21 | **1000** | 43 | 6.4 | | | | 21 | 21 |
| 22 | **750** | 44 | 6.8 | | | | 22 | 22 |
| 23 | **500** | 45 | 8.5 | | | | 23 | 23 |
| 24 | **5** | 46 | 26.2 | | | | 24 | |

**Notes: 30 BROKE →** ~~1030~~ 105

# Hawaii Ocean Time-series

## HOT-366

## WOCE Deep Data Sheet

Station # 2 Date: 9/7/16 (HST)

Cast # 2 Time: 0:300 (HST)

Operator(s): DH, DS, MD, LDL, SM, CLP

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ Alk | pH | DOC | Nutrient | Refrig. Si |
|---|---|---|---|---|---|---|---|---|
| 1 | **4800** | 15 | 4.2 | | | | 1 | 1 |
| 2 | **4600** | 16 | 4.0 | | | | 2 | 2 |
| 3 | **4500** | 17,18,19 | 4.9 | 3A-B | 1,2,3 | 3ABC | 3A-B | 3A-B |
| 4 | **4400** | 20 | 3.9 | | | | 4 | 4 |
| 5 | **4200** | 21 | 4.0 | | | | 5 | 5 |
| 6 | **4000** | 22 | 4.0 | | | | 6 | 6 |
| 7 | **3800** | 23,24,25 | 5.0 | | | 7ABC | 7A-B | 7A-B |
| 8 | **3600** | 26 | 4.3 | | | | 8 | 8 |
| 9 | **3400** | 27 | 4.7 | | | | 9 | 9 |
| 10 | **3200** | 28 | 4.5 | | | | 10 | 10 |
| 11 | **3000** | 29,30,31 | 5.4 | 11 | 4 | 11ABC | 11A-B | 11A-B |
| 12 | **2800** | 32 | 4.5 | | | | 12 | 12 |
| 13 | **2600** | 33 | 4.3 | | | | 13 | 13 |
| 14 | **2400** | 34 | 4.3 | | | | 14 | 14 |
| 15 | **2200** | 35 | 5.1 | | | | 15 | 15 |
| 16 | **2000** | 36 | 5.6 | 16 | 5 | 16ABC | 16A-B | 16A-B |
| 17 | **1800** | 37,38,39 | 5.3 | | | | 17 | 17 |
| 18 | **1600** | 40 | 4.7 | | | | 18 | 18 |
| 19 | **1400** | 41 | 5.5 | | | | 19 | 19 |
| 20 | **1200** | 42 | 5.9 | | | | 20 | 20 |
| 21 | **1000** | 43 | 6.4 | | | | 21 | 21 |
| 22 | **750** | 44 | 6.8 | | | | 22 | 22 |
| 23 | **500** | 45 | 8.5 | | | | 23 | 23 |
| 24 | **5** | 46 | 26.2 | | | | 24 | |

**Notes:** 30 Bricks 9150

# Hawaii Ocean Time-series

HOT-366

PO Shallow Data Sheet

Station # 2 Date: 9/17/26 (HST)

Cast # 3 Time: 12:00 (HST)

Operator(s): DS, DH, MND, MD

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ Alk | pH | DOC | Nutrient | Refrig. Si | Replicate Depths |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **1020** | 47,48,49 | 7.8 | 1 | 1 | 1 | 1 A-B | 1 A-B | **1000** |
| 2 | **988** | 50 | 7.3 | | | | 2 | 2 | |
| 3 | **948** | 51 | 7.4 | | | | 3 | 3 | |
| 4 | **908** | 52 | 7.4 | | | | 4 | 4 | |
| 5 | **868** | 53 | 7.7 | | | | 5 | 5 | |
| 6 | **828** | 54 | 7.6 | | | | 6 | 6 | |
| 7 | **781** | 55 | 7.8 | | | | 7 | 7 | |
| 8 | **734** | 56,57,58 | 8.4 | 8 | 2 | 8 | 8 | 8 | **750** |
| 9 | **662** | 59 | 8.4 | | | | 9 | 9 | |
| 10 | **626** | 60 | 8.7 | | | | 10 | 10 | |
| 11 | **589** | 61 | 8.9 | 11 | 3 | 11 | 11 | 11 | **600** |
| 12 | **549** | 62 | 9.3 | | | | 12 | 12 | |
| 13 | **502** | 63 | 9.7 | 13 | 4 | 13 | 13 A-B | 13 A-B | **525/500** |
| 14 | **468** | 64,65,66 | 10.7 | | | | 14 | 14 | **450** |
| 15 | **404** | 67 | 11.1 | | | | 15 | | |
| 16 | **337** | 68 | 12.6 | 16A,B | 5,6 | 16 | 16 | | **350** |
| 17 | **296** | 69 | 13.6 | | | | 17 | | |
| 18 | **225** | 70,71,72 | 16.5 | 18 | 7 | 18 | 18 | | **250/225** |
| 19 | **169** | 73 | 19.5 | | | | 19 | | |
| 20 | **111** | 74 | 21.9 | | | | 20 | | |
| 21 | **76** | 75 | 23.6 | | | | 21 A-B | | **150** |
| 22 | **60** | 76 | 24.8 | | | | 22 | | |
| 23 | **39** | 77 | 26.4 | | | | 23 | | |
| 24 | **5** | 78 | 26.4 | | | | 24 | | **5** |

**Notes:** Ref. Si below 400 meters

# Hawaii Ocean Time-series

## HOT-366

## PO Shallow Data Sheet

Station # 2 Date: 9/17/26 (HST)

Cast # 3 Time: (HST)

Operator(s): DS, DH, MD, MND

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ Alk | pH | DOC | Nutrient | Refrig. Si | Replicate Depths |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **1020** | 47,48,49 | 7.8 | 1 | 1 | 1 | 1 A-B | 1 A-B | **1000** |
| 2 | **988** | 50 | 7.3 | | | | 2 | 2 | |
| 3 | **948** | 51 | 7.4 | | | | 3 | 3 | |
| 4 | **908** | 52 | 7.4 | | | | 4 | 4 | |
| 5 | **868** | 53 | 7.7 | | | | 5 | 5 | |
| 6 | **828** | 54 | 7.6 | | | | 6 | 6 | |
| 7 | **781** | 55 | 7.8 | | | | 7 | 7 | |
| 8 | **734** | 56,57,58 | 8.4 | 8 | 2 | 8 | 8 | 8 | **750** |
| 9 | **662** | 59 | 8.4 | | | | 9 | 9 | |
| 10 | **626** | 60 | 8.7 | | | | 10 | 10 | |
| 11 | **589** | 61 | 8.9 | 11 | 3 | 11 | 11 | 11 | **600** |
| 12 | **549** | 62 | 9.3 | | | | 12 | 12 | |
| 13 | **502** | 63 | 9.7 | 13 | 4 | 13 | 13 A-B | 13 A-B | **525/500** |
| 14 | **468** | 64,65,66 | 10.7 | | | | 14 | 14 | **450** |
| 15 | **404** | 67 | 11.1 | | | | 15 | | |
| 16 | **337** | 68 | 12.6 | 16A,B | 5,6 | 16 | 16 | | **350** |
| 17 | **296** | 69 | 13.6 | | | | 17 | | |
| 18 | **225** | 70,71,72 | 14.5 | 18 | 7 | 18 | 18 | | **250/225** |
| 19 | **169** | 73 | 19.5 | | | | 19 | | |
| 20 | **111** | 74 | 21.9 | | | | 20 | | |
| 21 | **76** | 75 | 23.6 | | | | 21 A-B | | **150** |
| 22 | **60** | 76 | 24.8 | | | | 22 | | |
| 23 | **39** | 77 | 26.4 | | | | 23 | | |
| 24 | **5** | 78 | 26.4 | | | | 24 | | **5** |

**Notes:** Ref. Si below 400 meters

# Hawaii Ocean Time-series

## HOT-366

## PC/PN Data Sheet

Station # 2 Date: 9/17/26 (HST)

Cast # 4 Time: 1348 (HST)

Operator(s): BB,MDF,SDM,HM,MB Pre-screen mesh size: 202 um

Blank #'s **__B1__** **__B2__** **__B3__**

| Rosette Position | Desired Depth | Carboy # | Total Volume | Sample # | | | |
|---|---|---|---|---|---|---|---|
| 1 | **1020** | | | | | | |
| 2 | **Sal Min** | | | | | | |
| 3 | **350** | 1 | 10 | 3 | | | |
| 4 | **350** | 2 | 10 | 4 | | | |
| 5 | **250** | 3 | 10 | 5 | | | |
| 6 | **200** | 4 | 10 | 6 | | | |
| 7 | **175** | 5 | 10 | 7 | | | |
| 8 | **150** | 6 | 10 | 8 | | | |
| 9 | **125** | 7,8 | 4,4 | 9A,B | | | |
| 10 | **100** | 9 | 4 | 10 | | | |
| 11 | **75** | 10 | 4 | 11 | | | |
| 12 | **45** | 11 | 4 | 12 | | | |
| 13 | **45** | | | | | | |
| 14 | **45** | | | | | | |
| 15 | **25** | 12,13 | 4,4 | 13A,B | | | |
| 16 | **25** | | | | | | |
| 17 | **25** | | | | | | |
| 18 | **5** | 14 | 4 | 14 | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

**Notes**

100 mL's lost on carboy #11

the filter on carboy #5 blew out but also had to be replaced because it got too full

orange filter!!

# Hawaii Ocean Time-series

## HOT-366

## PC/PN Data Sheet

Station # 2 Date: 9/17/26 (HST)

Cast # 4 Time: 1348 (HST)

Operator(s): _____ Pre-screen mesh size: 202 um

Blank #'s **___B1___ ___B2___ ___B3___**

| Rosette Position | Desired Depth | Carboy # | Total Volume | Sample # | PD | | |
|---|---|---|---|---|---|---|---|
| 1 | **1020** | | | | | | |
| 2 | **Sal Min** | | | | | | |
| 3 | **350** | 1 | 10 | 3 | | | |
| 4 | **350** | 2 | 10 | 4 | | | |
| 5 | **250** | 3 | 10 | 5 | | | |
| 6 | **200** | 4 | 10 | 6 | | | |
| 7 | **175** | 5 | 10 | 7 | | | |
| 8 | **150** | 6 | 10 | 8 | | | |
| 9 | **125** | 7,8 | 4,4 | 9A,B | | | |
| 10 | **100** | 9 | 4 | 10 | | | |
| 11 | **75** | 10 | 4 | 11 | | | |
| 12 | **45** | 11 | 4 | 12 | | | |
| 13 | **45** | | | | | | |
| 14 | **45** | | | | | | |
| 15 | **25** | 12,13 | 4,4 | 13A,B | | | |
| 16 | **25** | | | | | | |
| 17 | **25** | | | | | | |
| 18 | **5** | 14 | 4 | 14 | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

**Notes** 100mL's lost on #11

# Hawaii Ocean Time-series

## HOT-366

## Particulate Phosphorus Data Sheet

Station # 2 Date: 9/17/26 (HST)

Cast # 5 Time: 0500 (HST)

Operator(s): MDF,BB,SDM,HM,MB Pre-screen mesh size: 202 um

Blank #'s **B1** **B2** **B3**

| Rosette Position | Desired Depth | Carboy # | Total Volume | Sample # | | | |
|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | |
| 2 | **Sal min** | | | | | | |
| 3 | **350** | 1 | 10 | 3 | | | |
| 4 | **350** | 2 | 10 | 4 | | | |
| 5 | **250** | 3 | 4 | 5 | | | |
| 6 | **200** | 4 | 10 | 6 | | | |
| 7 | **175** | 5 | 10 | 7 | | | |
| 8 | **150** | 6 | 10 | 8 | | | |
| 9 | **125** | 7,8 | 4,4 | 19A-B | | | |
| 10 | **100** | 9 | 4 | 10 | | | |
| 11 | **75** | 10 | 4 | 11 | | | |
| 12 | **45** | 11 | 4 | 12 | | | |
| 13 | **25** | 12,13 | 4,4 | 13A-B | | | |
| 14 | **5** | 14 | 4 | 14 | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

**Notes:**

**200 mLs lost on carboys #2 & #5**

# Hawaii Ocean Time-series

HOT-366

## Particulate Phosphorus Data Sheet

Station # 2 Date: _____ (HST)

Cast # 5 Time: _____ (HST)

Operator(s): _____ Pre-screen mesh size: 202 um

Blank #'s **__B1__ __B2__ __B3__**

| Rosette Position | Desired Depth | Carboy # | Total Volume | Sample # | | | |
|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | |
| 2 | **Sal min** | | | | | | |
| 3 | **350** | 1 | 10 | 3 | | | |
| 4 | **350** | 2 | 10 | 4 | | | |
| 5 | **250** | 3 | 4 | 5 | | | |
| 6 | **200** | 4 | 10 | 6 | | | |
| 7 | **175** | 5 | 10 | 7 | | | |
| 8 | **150** | 6 | 10 | 8 | | | |
| 9 | **125** | 7,8 | 4,4 | 19A-B | | | |
| 10 | **100** | 9 | 4 | 20 | | | |
| 11 | **75** | 10 | 4 | 21 | | | |
| 12 | **45** | 11 | 4 | 22 | | | |
| 13 | **25** | 12,13 | 4,4 | 23A-B | | | |
| 14 | **5** | 14 | 4 | 24 | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## BEACH Shallow Data Sheet (1/2)

Station # 2
Cast # 6
Operator(s): MDF,BB,SDM,HM,MG

Date: 9/17/2026 (HST)
Time: 2045 (HST)

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ ALK | Quay DIC | Keeling DIC | pH | DOC |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 79 | 8.2 | | | | | |
| 2 | **$O_2$ min** | 80 | 9.0 | | | | | |
| 3 | **Sal min** | 81 | 11.8 | | | | | |
| 4 | **200** | 82 | 18.9 | 4 | | | 1 | 4 |
| 5 | **175** | 83 | 20.3 | | | | | 5 |
| 6 | **165** | 84 | 20.5 | | | | | |
| 7 | **150** | 85 | 21.0 | 7 | | | 2 | 7 |
| 8 | **130** | | | | | | | |
| 9 | **125** | 86 | 22.0 | | | | | 9 |
| 10 | **115** | 87 | 22.4 | | | | | |
| 11 | **110** | | | | | | | |
| 12 | **100** | 88,89,90 | 23.4 | 12 | | | 3 | 12 |
| 13 | **90** | | | | | | | |
| 14 | **85** | 91 | 24.3 | | | | | |
| 15 | **75** | 92 | 25.5 | 15 | | | 4 | 15 |
| 16 | **60** | | | | | | | 16 |
| 17 | **45** | 93 | 26.2 | 17 | | | 5 | 17 |
| 18 | **35** | | | | | | | 18 |
| 19 | **25** | 94 | 26.4 | 19 | | | | 19 |
| 20 | **25** | | | | 20 | | 6 | |
| 21 | **15** | | | | | | | 21 |
| 22 | **5** | 95 | 26.5 | 22A-B | | | 7,8 | 22 |
| 23 | **5** | | | | 23 | 23A-B | | |
| 24 | | | | | | | | |

**Notes: K&Q @ 21:16**
**O2 92 & 95 had bubbles in them.**

# Hawaii Ocean Time-series

## HOT-366

## BEACH Shallow Data Sheet (2/2)

Station # 2 Date: _____ (HST)

Cast # 6 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | Nutrient | LLN | LLP | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **$O_2$ min** | | | | | | | |
| 3 | **Sal min** | | | | | | | |
| 4 | **200** | 4 | | | | | | |
| 5 | **175** | 5 | 5 | 5 | | | | |
| 6 | **165** | | 6 | | | | | |
| 7 | **150** | 7 | 7A-B | 7 | | | | |
| 8 | **130** | | 8 | | | | | |
| 9 | **125** | 9A-B | 9 | 9 | | | | |
| 10 | **115** | | 10 | 10 | | | | |
| 11 | **110** | | 11 | | | | | |
| 12 | **100** | 12 | 12A-B | 12 | | | | |
| 13 | **90** | | 13 | | | | | |
| 14 | **85** | | 14 | 14 | | | | |
| 15 | **75** | 15 | 15 | 15 | | | | |
| 16 | **60** | 16 | 16 | 16 | | | | |
| 17 | **45** | 17A-B | 17 | 17 | | | | |
| 18 | **35** | 18 | 18 | | | | | |
| 19 | **25** | 19 | 19 | 19 | | | | |
| 20 | **25** | | | | | | | |
| 21 | **15** | 21 | 21 | | | | | |
| 22 | **5** | 22 | 22A-B | 22 | | | | |
| 23 | **5** | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## BEACH Shallow Data Sheet (1/2)

Station # 2 Date: _____ (HST)

Cast # 6 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | DIC/ ALK | Quay DIC | Keeling DIC | pH | DOC |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 79 | 8.2 | | | | | |
| 2 | **$O_2$ min** | 80 | 9.0 | | | | | |
| 3 | **Sal min** | 81 | 11.8 | | | | | |
| 4 | **200** | 82 | 18.9 | 4 | | | 1 | 4 |
| 5 | **175** | 83 | 20.3 | | | | | 5 |
| 6 | **165** | 84 | 20.5 | | | | | |
| 7 | **150** | 85 | 21.0 | 7 | | | 2 | 7 |
| 8 | **130** | | | | | | | |
| 9 | **125** | 86 | 22.0 | | | | | 9 |
| 10 | **115** | 87 | 22.4 | | | | | |
| 11 | **110** | | | | | | | |
| 12 | **100** | 88,89,90 | 23.4 | 12 | | | 3 | 12 |
| 13 | **90** | | | | | | | |
| 14 | **85** | 91 | 24.3 | | | | | |
| 15 | **75** | 92 | 25.5 | 15 | | | 4 | 15 |
| 16 | **60** | | | | | | | 16 |
| 17 | **45** | 93 | 26.2 | 17 | | | 5 | 17 |
| 18 | **35** | | | | | | | 18 |
| 19 | **25** | 94 | 26.4 | 19 | | | | 19 |
| 20 | **25** | | | | 20 | | 6 | |
| 21 | **15** | | | | | | | 21 |
| 22 | **5** | 95 | 26.5 | 22A-B | | | 7,8 | 22 |
| 23 | **5** | | | | 23 | 23A-B | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## BEACH Shallow Data Sheet (2/2)

Station # 2 Date: _____ (HST)

Cast # 6 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | Nutrient | LLN | LLP | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **$O_2$ min** | | | | | | | |
| 3 | **Sal min** | | | | | | | |
| 4 | **200** | 4 | | | | | | |
| 5 | **175** | 5 | 5 | 5 | | | | |
| 6 | **165** | | 6 | | | | | |
| 7 | **150** | 7 | 7A-B | 7 | | | | |
| 8 | **130** | | 8 | | | | | |
| 9 | **125** | 9A-B | 9 | 9 | | | | |
| 10 | **115** | | 10 | 10 | | | | |
| 11 | **110** | | 11 | | | | | |
| 12 | **100** | 12 | 12A-B | 12 | | | | |
| 13 | **90** | | 13 | | | | | |
| 14 | **85** | | 14 | 14 | | | | |
| 15 | **75** | 15 | 15 | 15 | | | | |
| 16 | **60** | 16 | 16 | 16 | | | | |
| 17 | **45** | 17A-B | 17 | 17 | | | | |
| 18 | **35** | 18 | 18 | | | | | |
| 19 | **25** | 19 | 19 | 19 | | | | |
| 20 | **25** | | | | | | | |
| 21 | **15** | 21 | 21 | | | | | |
| 22 | **5** | 22 | 22A-B | 22 | | | | |
| 23 | **5** | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

Kelling & Yung 21:56

$O_2$ #42 & 45 had bubbles in tiem.

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 2 Date: _____ (HST)

Cast # 7 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **5** | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes**

# Hawaii Ocean Time-series

## HOT-366

## Gas Array Experiment Data Sheet

Station # 2
Cast # 8
Operator(s): DS, MD,DH

Date: 9/18/26 (HST)
Time: 0200 (HST)

| Rosette Position | Desired Depth | 15N2 | T0 | MC DNA | | | |
|---|---|---|---|---|---|---|---|
| 1 | **1020** | | | | | | |
| 2 | **Sal min** | | | | | | |
| 3 | **175** | | | 1 | | | |
| 4 | **150** | | | 2 | | | |
| y5 | **125** | | | 3 | | | |
| 6 | **125** | 3-1 | x | | | | |
| 7 | **125** | 3-2 | | | | | |
| 8 | **125** | 3-3 | | | | | |
| 9 | **100** | | | 4 | | | |
| 10 | **100** | 4-1 | X | | | | |
| 11 | **100** | 4-2 | | | | | |
| 12 | **100** | 4-3 | | | | | |
| 13 | **75** | 5-1 | X | | | | |
| 14 | **75** | 5-2 | | 5 | | | |
| 15 | **75** | 5-3 | | | | | |
| 16 | **45** | 6-1 | X | | | | |
| 17 | **45** | 6-2 | | 6 | | | |
| 18 | **45** | 6-3 | | | | | |
| 19 | **25** | 7-1 | X | | | | |
| 20 | **25** | 7-2 | | 7 | | | |
| 21 | **25** | 7-3 | | | | | |
| 22 | **5** | 8-1 | X | | | | |
| 23 | **5** | 8-2 | | 8 | | | |
| 24 | **5** | 8-3 | | | | | |

**Notes: No 13C added, left ashore**

# Hawaii Ocean Time-series

## HOT-366

## Gas Array Experiment Data Sheet

Station # 2 Date: 9/19/26 (HST)

Cast # 8 Time: (HST)

Operator(s):

| Rosette Position | Desired Depth | 15N2 | T0 | MC DNA | | | |
|---|---|---|---|---|---|---|---|
| 1 | **1020** | | | | | | |
| 2 | **Sal min** | | | | | | |
| 3 | **175** | | | 1 | | | |
| 4 | **150** | | | 2 | | | |
| 5 | **125** | | | 3 | | | |
| 6 | **125** | 3-1 | x | | | | |
| 7 | **125** | 3-2 | | | | | |
| 8 | **125** | 3-3 | | | | | |
| 9 | **100** | | | 4 | | | |
| 10 | **100** | 4-1 | X | | | | |
| 11 | **100** | 4-2 | | | | | |
| 12 | **100** | 4-3 | | | | | |
| 13 | **75** | 5-1 | X | | | | |
| 14 | **75** | 5-2 | | 5 | | | |
| 15 | **75** | 5-3 | | | | | |
| 16 | **45** | 6-1 | X | | | | |
| 17 | **45** | 6-2 | | 6 | | | |
| 18 | **45** | 6-3 | | | | | |
| 19 | **25** | 7-1 | X | | | | |
| 20 | **25** | 7-2 | | 7 | | | |
| 21 | **25** | 7-3 | | | | | |
| 22 | **5** | 8-1 | X | | | | |
| 23 | **5** | 8-2 | | 8 | | | |
| 24 | **5** | 8-3 | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Open Data Sheet

Station # 2
Cast # 9
Operator(s): FP, MD

Date: 9/18/26 (HST)
Time: 0500 (HST)

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **5** | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 2

Cast # 9

Operator(s):

Date: 9/18/26 (HST)

Time: 0448 (HST)

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **5** | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT- 366

## Particulate Silica Data Sheet

Station # 2
Cast # 10
Operator(s): DS, MND, DH, LDL, SM, GLP
Blank # **B1, B2, B3**

Date: 9/18/2026 (HST)
Time: 0747 (HST)

| Rosette Position | Desired Depth | Carboy # | Total Volume | Sample # | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal min** | | | | | | | |
| 3 | **175** | 7 | 4 | 3 | | | | |
| 4 | **150** | 8 | 4 | 4 | | | | |
| 5 | **125** | 9,10 | 4,4 | 5A-B | | | | |
| 6 | **100** | 11 | 4 | 6 | | | | |
| 7 | **75** | 12 | 4 | 7 | | | | |
| 8 | **45** | 13 | 4 | 8 | | | | |
| 9 | **25** | 14,15 | 4,4 | 9A-B | | | | |
| 10 | **5** | 16 | 4 | 10 | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT- 366

## Particulate Silica Data Sheet

Station # 2

Cast # 10

Operator(s): DS, MND, DH, LDL, SM, GLP

Blank # **B1, B2, B3**

Date: 9/18/26 (HST)

Time: 0747 (HST)

| Rosette Position | Desired Depth | Carboy # | Total Volume | Sample # | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal min** | | | | | | | |
| 3 | **175** | 7 | 4 | 3 | | | | |
| 4 | **150** | 8 | 4 | 4 | | | | |
| 5 | **125** | 9,10 | 4,4 | 5A-B | | | | |
| 6 | **100** | 11 | 4 | 6 | | | | |
| 7 | **75** | 12 | 4 | 7 | | | | |
| 8 | **45** | 13 | 4 | 8 | | | | |
| 9 | **25** | 14,15 | 4,4 | 9A-B | | | | |
| 10 | **5** | 16 | 4 | 10 | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 2 Date: 9/18/2026 (HST)

Cast # 11 Time: 1041 (HST)

Operator(s): JL, AL

| Rosette Position | Desired Depth | PD | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **5** | | | | | | | |
| 4 | **5** | X | | | | | | |
| 5 | **5** | X | | | | | | |
| 6 | **5** | X | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 2

Cast # 11

Operator(s): AL, JL

Date: 9/18/26 (HST)

Time: 1041 (HST)

| Rosette Position | Desired Depth | PD | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **5** | | | | | | | |
| 4 | **5** | X | | | | | | |
| 5 | **5** | X | | | | | | |
| 6 | **5** | X | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## ATP Data Sheet

Station # 2 Date: 09/18/26 (HST)

Cast # 12 Time: (HST)

Operator(s): MDF,MD,BB Pre-screen mesh size: 202 um

Blank #'s 28, 29, 30

| Rosette Position | Desired Depth | ATP Tube #'s | Volume Filtered | Carboy # | DL | | |
|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | |
| 2 | **Sal min** | | | | | | |
| 3 | **350** | 1 – 3 | 3x2 | 1 | | | |
| 4 | **250** | 4 – 6 | 3x2 | 2 | | | |
| 5 | **175** | | | | X | | |
| 6 | **150** | | | | X | | |
| 7 | **150** | 7 – 9 | 3x1 | 7 | | | |
| 8 | **125** | | | | X | | |
| 9 | **125** | 10 – 12 | 3x1 | 8 | | | |
| 10 | **100** | | | | X | | |
| 11 | **100** | 15 | 3x1 | 9 | | | |
| 12 | **75** | | | | X | | |
| 13 | **75** | 16 – 18 | 3x1 | 10 | | | |
| 14 | **45** | | | | X | | |
| 15 | **45** | 25 | 3x1 | 11 | | | |
| 16 | **25** | | | | X | | |
| 17 | **25** | 22 – 24 | 3x1 | 12 | | | |
| 18 | **5** | 19 - 21 | 3x1 | 13 | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

**Notes:**

**Tubes 13 and 14 have filters from carboy 9 and 11. Tube 25 has one filter from 11 and tube 15 has one filter from 9. In sum, tubes 13-14 are compromised because they have two filters from separate depths; tubes 15 and 25 have one filter from carboys 9 and 11 respectively.**

# Hawaii Ocean Time-series

HOT-366

ATP Data Sheet

Station # 2 Date: 9/18/26 (HST)

Cast # 12 Time: 1354 (HST)

Operator(s): Pre-screen mesh size: 202 um

Blank #'s 28, 29, 30

| Rosette Position | Desired Depth | ATP Tube #'s | Volume Filtered | Carboy # | DL | | |
|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | |
| 2 | **Sal min** | | | | | | |
| 3 | **350** | 1 – 3 | 3x2 | 1 ✓ | | | |
| 4 | **250** | 4 – 6 | 3x2 | 2 ✓ | | | |
| 5 | **175** | | | | X | | |
| 6 | **150** | | | | X | | |
| 7 | **150** | 7 – 9 | 3x1 | 7 ✓ | | | |
| 8 | **125** | | | | X | | |
| 9 | **125** | 10 – 12 | 3x1 | 8 ✓ | | | |
| 10 | **100** | | | | X | | |
| 11 | **100** | ~~13 15~~ 15 | 3x1 | 9 | | | |
| 12 | **75** | ~~19 25~~ | | | X | | |
| 13 | **75** | 16 – 18 | 3x1 | 10 ✓ | | | |
| 14 | **45** | | | | X | | |
| 15 | **45** | ~~19 21~~ 25 | 3x1 | 11 | | | |
| 16 | **25** | ~~19 21~~ | | | X | | |
| 17 | **25** | 22 – 24 | 3x1 | 12 ✓ | | | |
| 18 | **5** | ~~25 - 27~~ | 3x1 | 13 ✗ | | | |
| 19 | | 19 – 21 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

Notes:

- 2 filters from carboy 11 in 13 & 14
- Tube #25 has one filter from carboy 11
- #13-19 tubes have carboy 9 & 14 filters
- Blanks tubes #28-30

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 2 Date: _____ (HST)

Cast # 13 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Open Data Sheet

Station # 2 Date: _____ (HST)

Cast # 13 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | Sal Max | | | | | | | |
| 4 | 5 | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## HPLC & Chl *a*. Bottle Data Sheet

Station #: 2
Cast #: 14
Operator(s): MDF,BB,SDM,HM,MB

Date: 9/17/2026 (HST)
Time: 2000 (HST)

| Rosette Position | Desired Depth | Carboy # | Total Volume | HPLC | Chl *a*. | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal min** | | | | | | | |
| 3 | **175** | 1 | 10 | 3 | 3 | | | |
| 4 | **150** | 2 | 10 | 4 | 4 | | | |
| 5 | **135** | 7 | 4 | 5 | 5A-B | | | |
| 6 | **125** | 8,9 | 4,4 | 6 A-B | 6 | | | |
| 7 | **115** | 10 | 4 | 7 | 7 | | | |
| 8 | **100** | 11 | 4 | 8 | 8 | | | |
| 9 | **85** | 12 | 4 | 9 | 9 | | | |
| 10 | **75** | 13 | 4 | 10 | 10 | | | |
| 11 | **60** | 14 | 4 | 11 | 11A,B | | | |
| 12 | **45** | 15,16 | 4,4 | 12AB | 12 | | | |
| 13 | **25** | 3 | 10 | 13 | 13 | | | |
| 14 | **5** | 4 | 10 | 14 | 14 | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
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| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes: Carboy 3 had ~150mL of spillage.**

# Hawaii Ocean Time-series

## HOT-366

## HPLC & Chl *a*. Bottle Data Sheet

Station # 2 Date: 9/17/2026 (HST)

Cast # 14 Time: 2000 (HST)

Operator(s): MDF,BB,SDM,HM,MB

| Rosette Position | Desired Depth | Carboy # | Total Volume | HPLC | Chl *a*. | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal min** | | | | | | | |
| 3 | **175** | 1 | 10 | 3 | 3 | | | |
| 4 | **150** | 2 | 10 | 4 | 4 | | | |
| 5 | **135** | 7 | 4 | 5 | 5A-B | | | |
| 6 | **125** | 8,9 | 4,4 | 6 A-B | 6 | | | |
| 7 | **115** | 10 | 4 | 7 | 7 | | | |
| 8 | **100** | 11 | 4 | 8 | 8 | | | |
| 9 | **85** | 12 | 4 | 9 | 9 | | | |
| 10 | **75** | 13 | 4 | 10 | 10 | | | |
| 11 | **60** | 14 | 4 | 11 | 11A,B | | | |
| 12 | **45** | 15,16 | 4,4 | 12AB | 12 | | | |
| 13 | **25** | 3 | 10 | 13 | 13 | | | |
| 14 | **5** | 4 | 10 | 14 | 14 | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
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| 19 | | | | | | | | |
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| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

Carboy #3 had ~150ml of spillage

# Hawaii Ocean Time-series

## HOT-366

## WOCE Deep 2 Data Sheet

Station # 2 Date: 9/27/2026 (HST)

Cast # 15 Time: 2300 (HST)

Operator(s): MDF,BB,SDM,HM,MB

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **Bottom** | 96 | 4.3 | | | | | |
| 2 | **4000** | 97 | 4.2 | | | | | |
| 3 | **3000** | 98 | 4.2 | | | | | |
| 4 | **2000** | 99 | 4.6 | | | | | |
| 5 | **O2 min** | 100 | 7.2 | | | | | |
| 6 | **Sal min** | 101 | 9.8 | | | | | |
| 7 | **O2 max** | 102 | 24.0 | | | | | |
| 8 | **5** | 103 | 26.3 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
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| 21 | | | | | | | | |
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| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

WOCE Deep 2 Data Sheet

Station # 2 Date: 9/19/2026 (HST)

Cast # 15 Time: 2:31 (HST)

Operator(s): _____

| Rosette Position | Desired Depth | Oxygen | Sample Temp. | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **Bottom** | 96 | 4.3 | | | | | |
| 2 | **4000** | 97 | 4.2 | | | | | |
| 3 | **3000** | 98 | 4.2 | | | | | |
| 4 | **2000** | 99 | 4.6 | | | | | |
| 5 | **O2 min** | 100 | 7.2 | | | | | |
| 6 | **Sal min** | 101 | 9.8 | | | | | |
| 7 | **O2 max** | 102 | 24.0 | | | | | |
| 8 | **5** | 103 | 26.3 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
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| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## STATION 50 Data Sheet

Station # 50 Date: 9/19/26 (HST)

Cast # 1 Time: 0915 (HST)

Operator(s): Ds. nd

| Rosette Position | Desired Depth | DIC/TA | pH | PD | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **5** | 1A,B | 1,2,3 | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
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| 19 | | | | | | | | |
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| 21 | | | | | | | | |
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| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Open Data Sheet

Station # 2
Cast # 16
Operator(s): AL, JL

Date: 9/18/26 (HST)
Time: 1317 (HST)

| Rosette Position | Desired Depth | PD | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **200** | X | | | | | | |
| 2 | **5** | X | | | | | | |
| 3 | **5** | X | | | | | | |
| 4 | **5** | X | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
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**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 2 Date: 9/18/26 (HST)

Cast # 16 Time: 1317 (HST)

Operator(s):

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **200** | | | | | | | |
| 2 | **5** | | | | | | | |
| 3 | **5** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
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**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 2 Date: _____ (HST)

Cast # 100 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
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| 12 | | | | | | | | |
| 13 | | | | | | | | |
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| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 101 Date: 9/19/26 (HST)

Cast # 1 Time: 2300 (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 13 | | | | | | | | |
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| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # ~~2~~ 101

Cast # ~~101~~ 1

Operator(s): _____

Date: _____ (HST)

Time: _____ (HST)

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
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| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Open Data Sheet

Station # 102 Date: 9/20/2026 (HST)

Cast # 1 Time: 0330 (HST)

Operator(s): MD, DH, LDL, GLP, SM

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 1,2,3 | 4.0 | | | X | | |
| 2 | **900** | 4 | 4.3 | | | | | |
| 3 | **750** | 5,6,7 | 4.9 | | | X | | |
| 4 | **500** | 8 | 7.0 | | | X | | |
| 5 | **Sal Min** | 9 | 8.6 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **O2 Max** | 10 | 21.1 | | | | | |
| 10 | **Sal Max** | 11 | 22.1 | | | | | |
| 11 | **DCM** | | | 11A-B | X | | | |
| 12 | **100** | | | 12A-B | | | | |
| 13 | **75** | | | | | | | |
| 14 | **5** | 12,13,14 | 26.9 | 14A-B | X | X | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
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| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 102 Date: 9/20/26 (HST)

Cast # 1 Time: 0330 (HST)

Operator(s): DH, MD, LDL, GLPISM

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 1,2,3 | 4.0 | | | X | | |
| 2 | **900** | 4 | 4.3 | | | | | |
| 3 | **750** | 5,6,7 | 4.9 | | | X | | |
| 4 | **500** | 8 | 7.0 | | | X | | |
| 5 | **Sal Min** | 9 | 31.6 | | | | | |
| 6 | **250** | | | | AB X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **O2 Max** | 10 | 21.1 | | | | | |
| 10 | **Sal Max** | 11 | 22.6 | | | | | |
| 11 | **DCM** | | | 11A-B | AB X | | | |
| 12 | **100** | | | 12A-B | | | | |
| 13 | **75** | — | | | | | | |
| 14 | **5** | 12,13,14 | 26.9 | 14A-B | AB X | X | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
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| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

Didn't grab $O_2$ temp from niskin, grabbed from CTD

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 2 Date: 9/20/16 (HST)

Cast # 103 Time: 0353 (HST)

Operator(s): DS, IVC, MD

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
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| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 104 Date: 9/20/26 (HST)

Cast # 1 Time: 0539 (HST)

Operator(s): DH, MD, DS

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 15 | 6.7 | | | X | | |
| 2 | **900** | 16 | 7.9 | | | | | |
| 3 | **750** | 17 | 7.3 | | | X | | |
| 4 | **500** | 18 | 9.1 | | | X | | |
| 5 | **Sal Min** | 19 | 11.2 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **100** | | | 9A-B | X | | | |
| 10 | **100** | | | | | | | |
| 11 | **80** | 20 | 23.4 | | | | | |
| 12 | **75** | | | | | | | |
| 13 | **70** | 21 | 24.1 | | | | | |
| 14 | **5** | 22 | 26.5 | 14A-B | X | X | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
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| 21 | | | | | | | | |
| 22 | | | | | | | | |
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| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # ~~2~~ 104

Cast # ~~104~~ 1

Operator(s): DH, MD, DS

Date: 9/20/26 (HST)

Time: 0539 (HST)

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 15 | 6.7 | | | X | | |
| 2 | **900** | 16 | 7.9 | | | | | |
| 3 | **750** | 17 | 7.3 | | | X | | |
| 4 | **500** | 18 | 9.1 | | | X | | |
| 5 | **Sal Min** | 19 | 11.2 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **100** | | | 9A-B | X | | | |
| 10 | **100** | | | | | | | |
| 11 | **80** | 20 | 23.4 | | | | | |
| 12 | **75** | | | | | | | |
| 13 | **70** | 21 | 24.1 | | | | | |
| 14 | **5** | 22 | 26.5 | 14A-B | X | X | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
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**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 105 Date: 9/20/2026 (HST)

Cast # 1 Time: 0750 (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
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**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # ~~2~~ 105 Date: 9/20/16 (HST)

Cast # ~~105~~ 1 Time: 0750 (HST)

Operator(s): _____

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
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**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 106 Date: 9/20/26 (HST)

Cast # 1 Time: 938 (HST)

Operator(s): DS

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 106 Date: 9/20/2026 (HST)

Cast # 1 Time: 0938 (HST)

Operator(s): DS

| Rosette Position | Desired Depth | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **Sal Max** | | | | | | | |
| 4 | **5** | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
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| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 107 Date: 9/20/2026 (HST)

Cast # 1 Time: 12:50 (HST)

Operator(s): MND, GLP, DS, DH

| Rosette Position | Desired Depth | **Oxygen** | **Sample Temp** | **FCM** | **CHL** | **NUTS** | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 29 | 7.0 | | | X | | |
| 2 | **900** | 23 | 7.2 | | | | | |
| 3 | **750** | 24 | 7.6 | | | X | | |
| 4 | **500** | 25 | 9.2 | | | X | | |
| 5 | **Sal Min** | 26 | 11.2 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **DCM** | | | 9A-B | X | | | |
| 10 | **100** | | | | | | | |
| 11 | 75 | | | | | | | |
| 12 | O2/Sal Max | 27 | 24.1 | | | | | |
| 13 | **5** | 28 | 26.6 | 13A-B | X | X | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 107 Date: 9/20/2026 (HST)

Cast # 1 Time: 12:50 (HST)

Operator(s): DS, GLP, MD, DH

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 29 | 7.0 | | | X | | |
| 2 | **900** | 30 23 | 7.2 | | | | | |
| 3 | **750** | 31 24 | 7.6 | | | X | | |
| 4 | **500** | 32 25 | 9.2 | | | X | | |
| 5 | **Sal Min** | 33 26 | 11.2 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **DCM** | | | 9A-B | X | | | |
| 10 | **100** | | | | | | | |
| 11 | 75 | | | | | | | |
| 12 | O2/Sal Max | 34 27 | 24.1 | | | | | |
| 13 | **5** | 28 | 26.6 | 13A-B | X | X | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

DCM: 105m

# Hawaii Ocean Time-series

## HOT-366

## Open Data Sheet

Station # 108 Date: 9/20/2026 (HST)

Cast # 1 Time: 14:20 (HST)

Operator(s): MD, DH, GLP, LDL, SM

| Rosette Position | Desired Depth | FCM | CHL | NUTS | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | X | | | | |
| 2 | **750** | | | X | | | | |
| 3 | **500** | | | X | | | | |
| 4 | **Sal Min** | | | | | | | |
| 5 | **250** | | X | X | | | | |
| 6 | **150** | 6A-B | | | | | | |
| 7 | **125** | 7A-B | | | | | | |
| 8 | **DCM** | 8A-B | X | | | | | |
| 9 | **100** | 9A-B | | | | | | |
| 10 | **80** | | | | | | | |
| 11 | **75** | | | | | | | |
| 12 | **5** | 12A-B | X | X | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

## HOT-366

## Open Data Sheet

Station # 108 Date: 9/20/26 (HST)

Cast # 1 Time: 14:20 (HST)

Operator(s): MD, DH, GLP, LQL, SM

| Rosette Position | Desired Depth | FCM | CHL | NUTS | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | X | | | | |
| 2 | **750** | | | X | | | | |
| 3 | **500** | | | X | | | | |
| 4 | **Sal Min** | | | | | | | |
| 5 | **250** | | X | X | | | | |
| 6 | **150** | 6A-B | | | | | | |
| 7 | **125** | 7A-B | | | | | | |
| 8 | ~~**Sal Max**~~ | 8A-B | X | | | | | |
| 9 | ~~**DCM**~~ | 9A-B | ~~X~~ | | | | | |
| 10 | ~~**100**~~ | ~~10A-B~~ | | | | | | |
| 11 | **75** | | | | | | | |
| 12 | **5** | 12A-B | X | X | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

DCM 100 ~Sal Max

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 109 Date: _____ (HST)

Cast # 1 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | FCM | CHL | NUTS | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | | | X | | | | |
| 2 | **750** | | | X | | | | |
| 3 | **500** | | | X | | | | |
| 4 | **Sal Min** | | | | | | | |
| 5 | **250** | | X | X | | | | |
| 6 | **150** | 6A-B | | | | | | |
| 7 | **125** | 7A-B | | | | | | |
| 8 | **Sal Max** | | | | | | | |
| 9 | **DCM** | 9A-B | X | | | | | |
| 10 | **100** | 10A-B | | | | | | |
| 11 | **75** | | | | | | | |
| 12 | **5** | 12A-B | X | X | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 110 Date: 9/20/2026 (HST)

Cast # 1 Time: (HST)

Operator(s):

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 31 | 6.5 | | | X | | |
| 2 | **900** | 32 | 6.9 | | | | | |
| 3 | **750** | 33 | 7.2 | | | X | | |
| 4 | **500** | 34 | 8.5 | | | X | | |
| 5 | **Sal Min** | 38 | 10.5 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **O2 Max** | 35 | 21.4 | | | | | |
| 10 | **Sal Max** | 36 | 21.9 | | | | | |
| 11 | **DCM** | | | 11A-B | X | | | |
| 12 | **100** | | | 12A-B | | | | |
| 13 | **5** | | | | | | | |
| 14 | **5** | 37 | 26.5 | 14A-B | X | X | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 108 Date: _____ (HST)

Cast # ~~110~~ 1 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | Oxygen | Sample Temp | FCM | CHL | NUTS | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **1000** | 31 | 6.5 | | | X | | |
| 2 | **900** | 32 | 6.9 | | | | | |
| 3 | **750** | 33 | 7.2 | | | X | | |
| 4 | **500** | 34 | 8.5 | | | X | | |
| 5 | **Sal Min** | ~~51~~ 38 | 10.5 | | | | | |
| 6 | **250** | | | | X | X | | |
| 7 | **150** | | | 7A-B | | | | |
| 8 | **125** | | | 8A-B | | | | |
| 9 | **O2 Max** | 35 | 21.4 | | | | | |
| 10 | **Sal Max** | 36 | 21.9 | | | | | |
| 11 | **DCM** | | | 11A-B | X | | | |
| 12 | **100** | | | 12A-B | | | | |
| 13 | **5** | | | | | | | |
| 14 | **5** | 37 | 26.5 | 14A-B | X | X | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

## Open Data Sheet

Station # 111 Date: _____ (HST)

Cast # 11 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | FCM | CHL | NUTS | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **500** | | | X | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **250** | | X | X | | | | |
| 4 | **150** | 4A-B | | | | | | |
| 5 | **125** | 5A-B | | X | | | | |
| 6 | **Sal Max** | | | | | | | |
| 7 | **DCM** | 7A-B | X | X | | | | |
| 8 | **100** | 8A-B | | | | | | |
| 9 | **75** | | | | | | | |
| 10 | **5** | 10A-B | X | X | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series

HOT-366

Open Data Sheet

Station # 111 Date: _____ (HST)

Cast # 1 Time: _____ (HST)

Operator(s): _____

| Rosette Position | Desired Depth | FCM | CHL | NUTS | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | ~~450~~ 900 | | | X | | | | |
| 2 | **Sal Min** | | | | | | | |
| 3 | **250** | | X | X | | | | |
| 4 | **150** | 4A-B | | | | | | |
| 5 | **125** | 5A-B | | X | | | | |
| 6 | **Sal Max** | | | | | | | |
| 7 | **DCM** | 7A-B | X | X | | | | |
| 8 | **100** | 8A-B | | | | | | |
| 9 | **75** | | | | | | | |
| 10 | **5** | 10A-B | X | X | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |

**Notes:**

# Hawaii Ocean Time-series
## HOT 366
## Chlorophyll Grab Sample Sheet

| Date | Time (HST) | Location | GS # |
|---|---|---|---|
| 9/16/2026 | 22:18 | Transit | 1 |
| 9/17/2026 | 02:15 | ALOHA | 2 |
| 9/17/2026 | 06:26 | ALOHA | 3 |
| 9/17/2026 | 10:10 | ALOHA | 4 |
| 9/17/2026 | 13:54 | ALOHA | 5 |
| 9/17/2026 | 19:05 | ALOHA | 6 |
| 9/17/2026 | 22:13 | ALOHA | 7 |
| 9/18/2026 | 02:11 | ALOHA | 8 |
| 9/18/2026 | 06:03 | ALOHA | 9 |
| 9/18/2026 | 09:55 | ALOHA | 10 |
| 9/18/2026 | 14:11 | ALOHA | 11 |
| 9/18/2026 | 21:51 | ALOHA | 12 |
| 9/19/2026 | 10:13 | ALOHA | 13 |
| 9/19/2026 | 14:54 | ALOHA | 14 |
| | | | |
| | | | |
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# Hawaii Ocean Time-series

## HOT 366

## Chlorophyll Grab Sample Sheet

| Date | Time (HST) | Location | GS # |
|---|---|---|---|
| 9/16/26 | 22 18 | Transit | 1 |
| 9/17/26 | 2:15 | ALOHA | 2 |
| 9/17/26 | 06:26 | ALOHA | 3 |
| 9/17/26 | 10:10 | ALOHA | 4 |
| 9/17/26 | 13:54 | ALOHA | 5 |
| 9/17/26 | 17:05 | ALOHA | 6 |
| 9/17/26 | 22:13 | ALOHA | 7 |
| 9/18/26 | 2:11 | ALOHA | 8 |
| 9/18/26 | 06:03 | ALOHA | 9 |
| 9/18/26 | 09:55 | ALOHA | 10 |
| 9/18/26 | 14:11 | ALOHA | 11 |
| 〃 | 21:51 | ALOHA | 12 |
| 9/19/26 | 10:13 | ALOHA | 13 |
| 9/19/26 | 14:14 | ALOHA | 14 |
| | | | |
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# Hawaii Ocean Time-series
## HOT-366
## In Situ Gas Array Data Sheet

| | |
|---|---|
| Operators: DS, MD, BW, FP, DH | Operators: DS, MD, BW, FP, DH |
| Date Deployed: 9/18/26 | Date Recovered: 09/19/26 |
| Time (HST): 04:30 AM | Time (HST): 0430 |
| Position In: 22° 44.7765'N 158° 04.4769'W | Position Out: 22° 40.849'N 158° 06.621'W |

## Nitrogen Fixation Sample Processing Sheet

| Sample ID | Date Spiked | Time Spiked | Date filtered | Time Filtered | 15N Batch | Comments |
|---|---|---|---|---|---|---|
| 3-1 | 9/18/26 | 03:30 | 9/19/26 | 0455 | 9.11 | |
| 3-2 | 9/18/26 | 03:31 | 9/19/26 | 0455 | 9.11 | |
| 3-3 | 9/18/26 | 03:29 | 9/19/26 | 0455 | 9.11 | |
| 4-1 | 9/18/26 | 03:32 | 9/19/26 | 0455 | 9.11 | |
| 4-2 | 9/18/26 | 03:34 | 9/19/26 | 0455 | 9.11 | |
| 4-3 | 9/18/26 | 03:33 | 9/19/26 | 0455 | 9.11 | |
| 5-1 | 9/18/26 | 03:35 | 9/19/26 | 0455 | 9.11 | |
| 5-2 | 9/18/26 | 03:36 | 9/19/26 | 0533 | 9.11 | |
| 5-3 | 9/18/26 | 03:37 | 9/19/26 | 0533 | 9.11 | |
| 6-1 | 9/18/26 | 03:32 | 9/19/26 | 0533 | 9.11 | |
| 6-2 | 9/18/26 | 03:33 | 9/19/26 | 0533 | 9.11 | |
| 6-3 | 9/18/26 | 03:31 | 9/19/26 | 0541 | 9.11 | |
| 7-1 | 9/18/26 | 03:34 | 9/19/26 | 0541 | 9.11 | |
| 7-2 | 9/18/26 | 03:35 | 9/19/26 | 0605 | 9.11 | |
| 7-3 | 9/18/26 | 03:36 | 9/19/26 | 0605 | 9.11 | |
| 8-1 | 9/18/26 | 03:37 | 9/19/26 | 0605 | 9.11 | |
| 8-2 | 9/18/26 | 03:38 | 9/19/26 | 0620 | 9.11 | |
| 8-3 | 9/18/26 | 03:39 | 9/19/26 | 0620 | 9.11 | |
| | | | | | | |
| T0 | | | 9/18/26 | 03:30 | | |
| | | | | | | |

No 13C- DS forgot to pack it

# Hawaii Ocean Time-series
## HOT-366
## In Situ Gas Array Data Sheet

| | |
|---|---|
| Operators: | Operators: BW, FD, DS, MD, DH |
| Date Deployed: 9/18/26 | Date Recovered: 4/19/26 |
| Time (HST): 0430 | Time (HST): 0430 |
| Position In: 22°44.7765'N 158°04.478W | Position Out: 22° 40.849 158° 06.629 |

## Nitrogen Fixation Sample Processing Sheet

| Sample ID | Date Spiked | Time Spiked | Date filtered | Time Filtered | 15N Batch | Comments |
|---|---|---|---|---|---|---|
| 3-1 | 9/18/26 | 03:30 AM | 9/19/26 | 0455 | 9.11 | |
| 3-2 | 9/18/26 | 03:31 AM | | ↓ | ↓ | |
| 3-3 | 9/18/26 | 03:29 AM | | | | |
| 4-1 | 9/18/26 | 03:32 AM | | | | |
| 4-2 | 9/18/26 | 03:34 AM | | | | |
| 4-3 | 9/18/26 | 03:33 AM | | | | |
| 5-1 | 9/18/26 | 03:35 AM | | | | |
| 5-2 | 9/18/26 | 03:36 AM | | ↓ | | |
| 5-3 | 9/18/26 | 03:37 AM | | 5:33 | | |
| 6-1 | 9/18/26 | 03:32 AM | | ↓ | | |
| 6-2 | 9/18/26 | 03:33 AM | | ↓ | | |
| 6-3 | 9/18/26 | 03:31 AM | | 5:41 | | |
| 7-1 | 9/18/26 | 03:34 AM | | ↓ | | |
| 7-2 | 9/18/26 | 03:35 AM | | 0605 | | |
| 7-3 | 9/18/26 | 03:36 AM | | ↓ | | |
| 8-1 | 9/18/26 | 03:37 AM | | ↓ | | |
| 8-2 | 9/18/26 | 03:30 AM | | 0620 | | |
| 8-3 | 9/18/26 | 03:39 AM | | ↓ | ↓ | |
| | | | | | | |
| T0 | | | 9/18/26 | 0530 | | |
| | | | | | | |

With a re-pipettor added 1.0 mL of $^{13}C$ bicarbonate to each bottle
T0 filtered

NO 13C - DS forgot to pack it

# Hawaii Ocean Time-series
## HOT-366 In Situ Primary Production Data Sheet

| | |
|---|---|
| **Inoculation Start time** | 0330 |
| **Inoculation End time** | 00340 |

**Deployment**

| | |
|---|---|
| **Date Deployed** | **9/17/26** |
| **Operators** | **DS, BW, FP, MD** |
| **Position In** | **22° 45.016' N, 158° 02.201'W** |
| **Time In (HST)** | **0430** |
| **Comments** | |

**Recovery**

| | |
|---|---|
| **Date Recovered** | **9/17/2026** |
| **Operators** | **BW,BB,TR,SN,PF** |
| **Position out** | **22° 42.369' N, 158° 04.250'W** |
| **Time Out (HST)** | **1844** |
| **Weather condition** | **20 KTS** |
| **Sea State** | **7 FOOT SWELL** |
| **Comments** | |

| | |
|---|---|
| **Filtration Start time** | 1900 |
| **Filtration End time** | |

# Hawaii Ocean Time-series
## HOT-366 In Situ Primary Production Data Sheet

| | |
|---|---|
| **Inoculation Start time** | 0330 |
| **Inoculation End time** | 00340 |

**Deployment**

| | |
|---|---|
| **Date Deployed** | **9/17/26** |
| **Operators** | **DS, BW, FP, MD** |
| **Position In** | **22° 45.016' N, 158° 02.201'W** |
| **Time In (HST)** | **0430** |
| **Comments** | |

**Recovery**

| | |
|---|---|
| **Date Recovered** | **9/17/2026** |
| **Operators** | **BW,BB,TR,SN,PF** |
| **Position out** | 22°42.369'N, 158°4.250'W |
| **Time Out (HST)** | 1841t |
| **Weather condition** | 20 kts Wind |
| **Sea State** | 7ft swell |
| **Comments** | |

| | |
|---|---|
| **Filtration Start time** | ~~1930~~ 1900 |
| **Filtration End time** | |

# Hawaii Ocean Time-series
## HOT-366 In Situ Primary Production Data Sheet

| | |
|---|---|
| **Inoculation Start time** | 0330 |
| **Inoculation End time** | 00340 |

**Deployment**

| | |
|---|---|
| **Date Deployed** | **9/17/26** |
| **Operators** | **DS, BW, FP, MD** |
| **Position In** | **22°** 45.016'N 158 02.201'W |
| **Time In (HST)** | ~~0430~~ 0418 |
| **Comments** | |

**Recovery**

| | |
|---|---|
| **Date Recovered** | |
| **Operators** | |
| **Position out** | |
| **Time Out (HST)** | |
| **Weather condition** | |
| **Sea State** | |
| **Comments** | |

| | |
|---|---|
| **Filtration Start time** | ~~1945~~ |
| **Filtration End time** | ~~2035~~ |

Data Sheet for Sediment Trap Volumes HOT

Cruise #: 366

Analyst: MD, DH

Directions: 1) Mark the traps with 2 lines

a) Line #1 is at the interface

| Trap Name | Depth (m) | Height (cm) at Line #2 (Top Line) |
|---|---|---|
| | | |
| A | 150 | 39 |
| B | 150 | 37 |
| C | 150 | 39 |
| D | 150 | 39 |
| E | 150 | 37 |
| F | 150 | 38 |
| G | 150 | 39 |
| H | 150 | 38 |
| I | 150 | 38 |
| J | 150 | 39 |
| K | 150 | 38 |
| L | 150 | 38 |
| | | |

Data Sheet for Sediment Trap Volumes HOT

Cruise #: 366

Analyst: Devin, Madi

Directions: 1) Mark the traps with 2 lines

a) Line #1 is at the interface

| Trap Name | Depth (m) | Height (cm) at Line #2 (Top Line) |
|---|---|---|
| | | |
| A | 150 | 39 |
| B | 150 | 37 |
| C | 150 | 39 |
| D | 150 | 39 |
| E | 150 | 37 |
| F | 150 | 38 |
| G | 150 | 39 |
| H | 150 | 38 |
| I | 150 | 38 |
| J | 150 | 39 |
| K | 150 | 38 |
| L | 150 | 38 |
| | | |

# Hawaii Ocean Time-series
## HOT-366 Sediment Trap Data Sheet

### Deployment

| | |
|---|---|
| Type of traps | PIT |
| Date Deployed | 9/16/2026 |
| Operators | MDF,TR,BB,BW,SDM,HM,MB |
| Position in | 22° 45.019'N, 158° 03.288'W |
| Time PIT goes in water (HST) | |
| Comments | |

### Recovery

| | |
|---|---|
| Date Recovered | 9/19/2026 |
| Operators | MD, DH, DS, LDL, GLP, SM |
| Position out | 22°35.7424 N, 158°08.4174 W |
| Time PIT is out of water (HST) | 0610 HST |
| Wind | 23.4 kts, 69°E |
| Sea State | 1-2 meters waves, calm |
| Comments | |

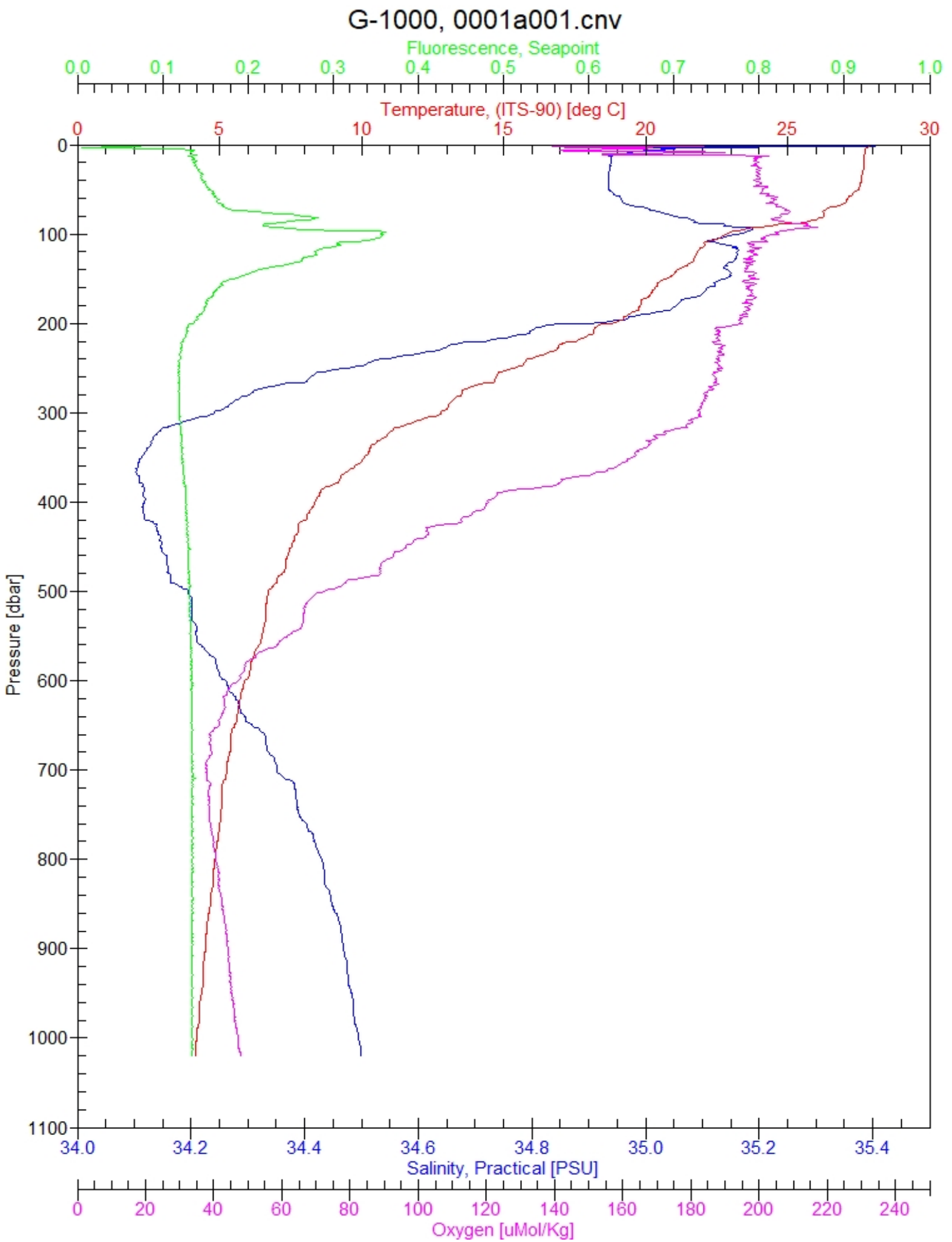
# Hawaii Ocean Time-series
## HOT-366 Sediment Trap Data Sheet

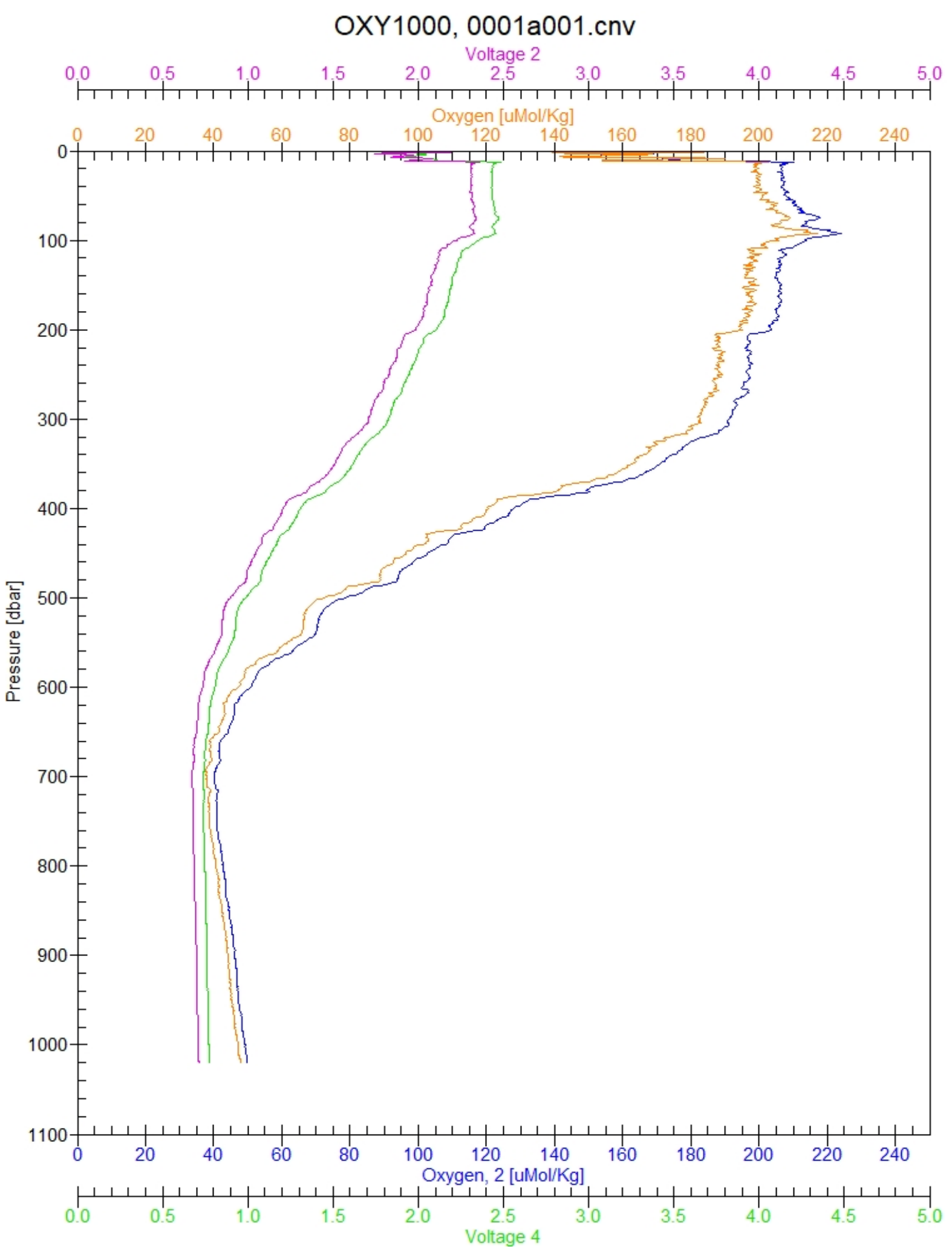
### Deployment

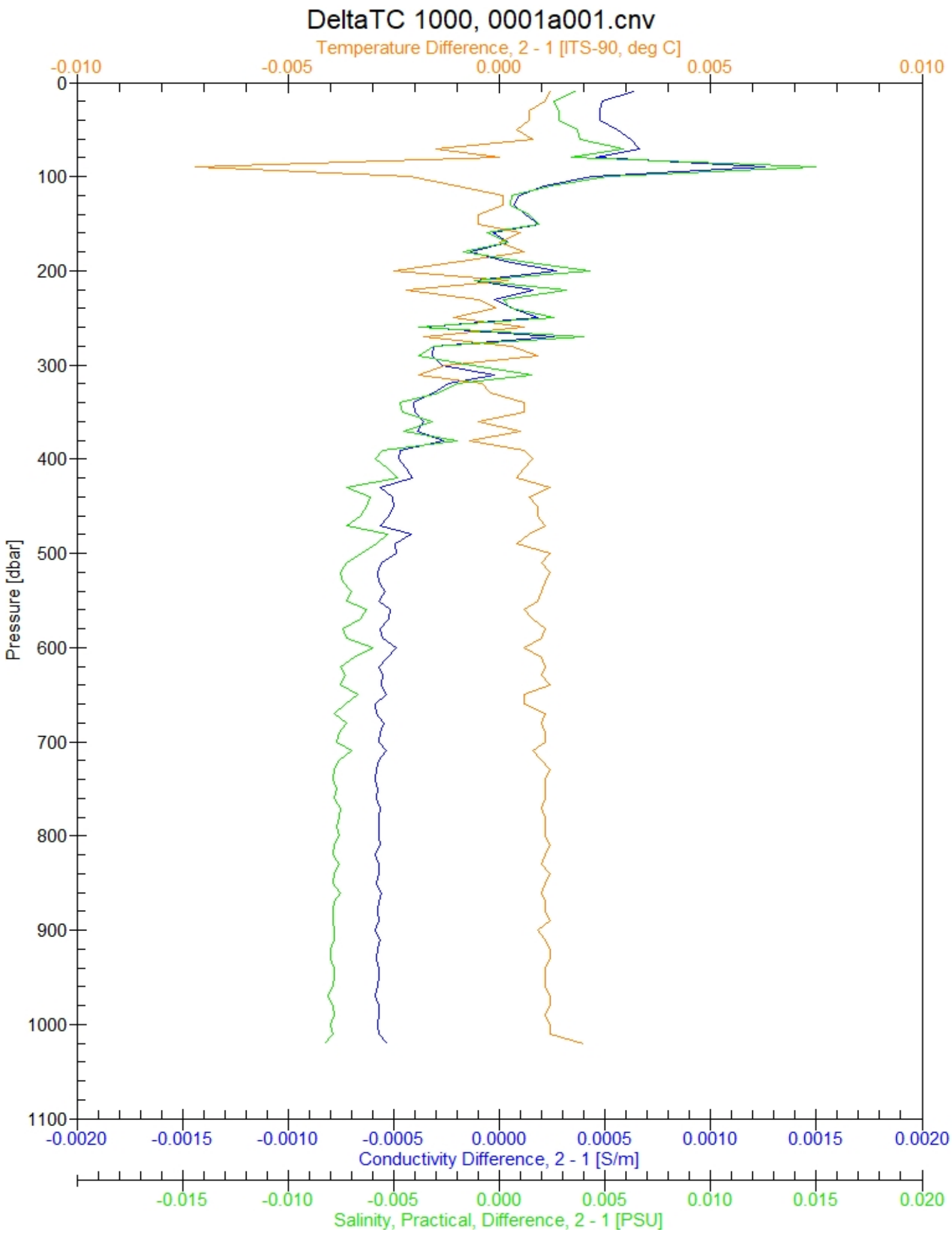
| | |
|---|---|
| Type of traps | PIT |
| Date Deployed | 9/16/2026 |
| Operators | MDF,TR,BB,BW,SDM,HM,MB |
| Position in | 22° 45.0193'N, 158° 3.2884'W |
| Time PIT goes in water (HST) | 1010 |
| Comments | |

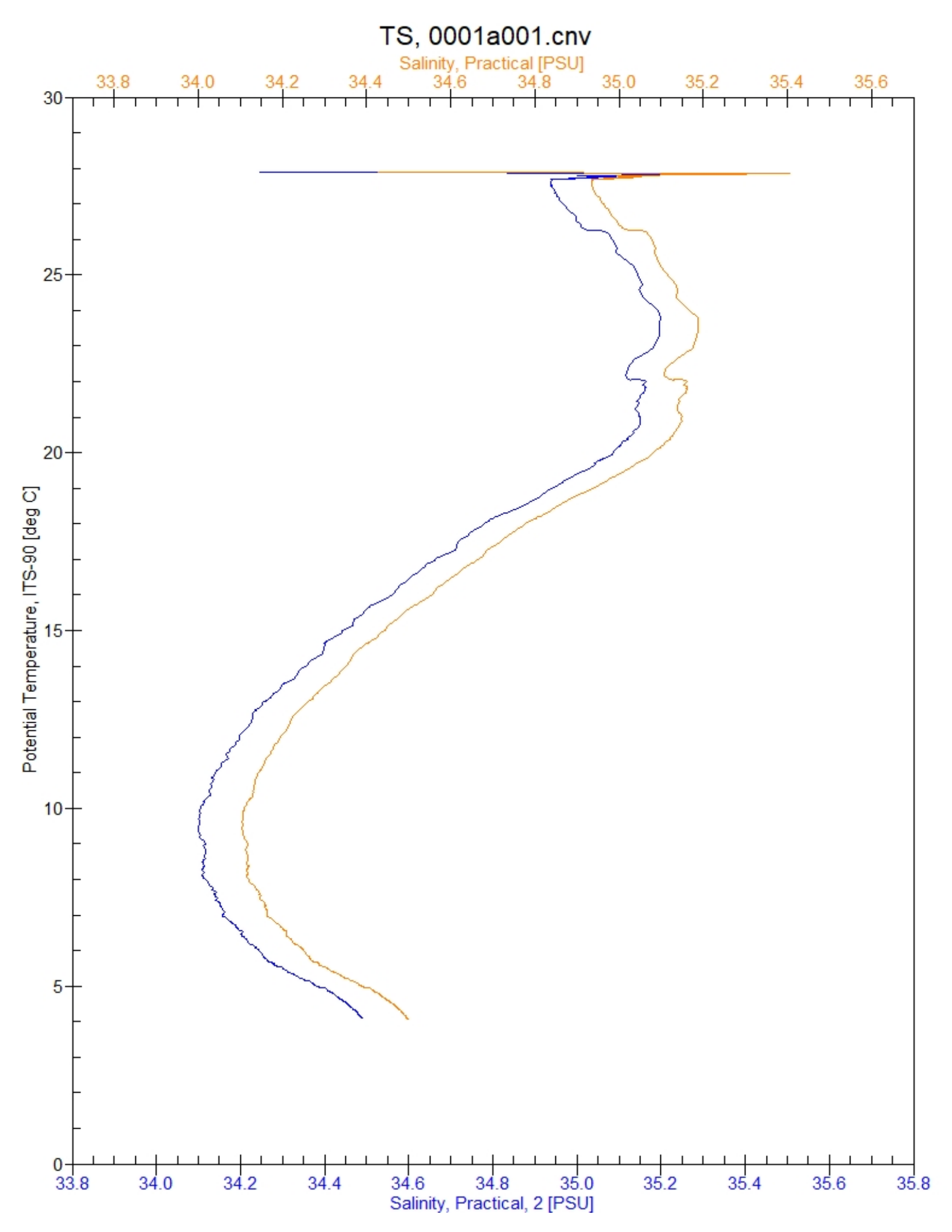
### Recovery

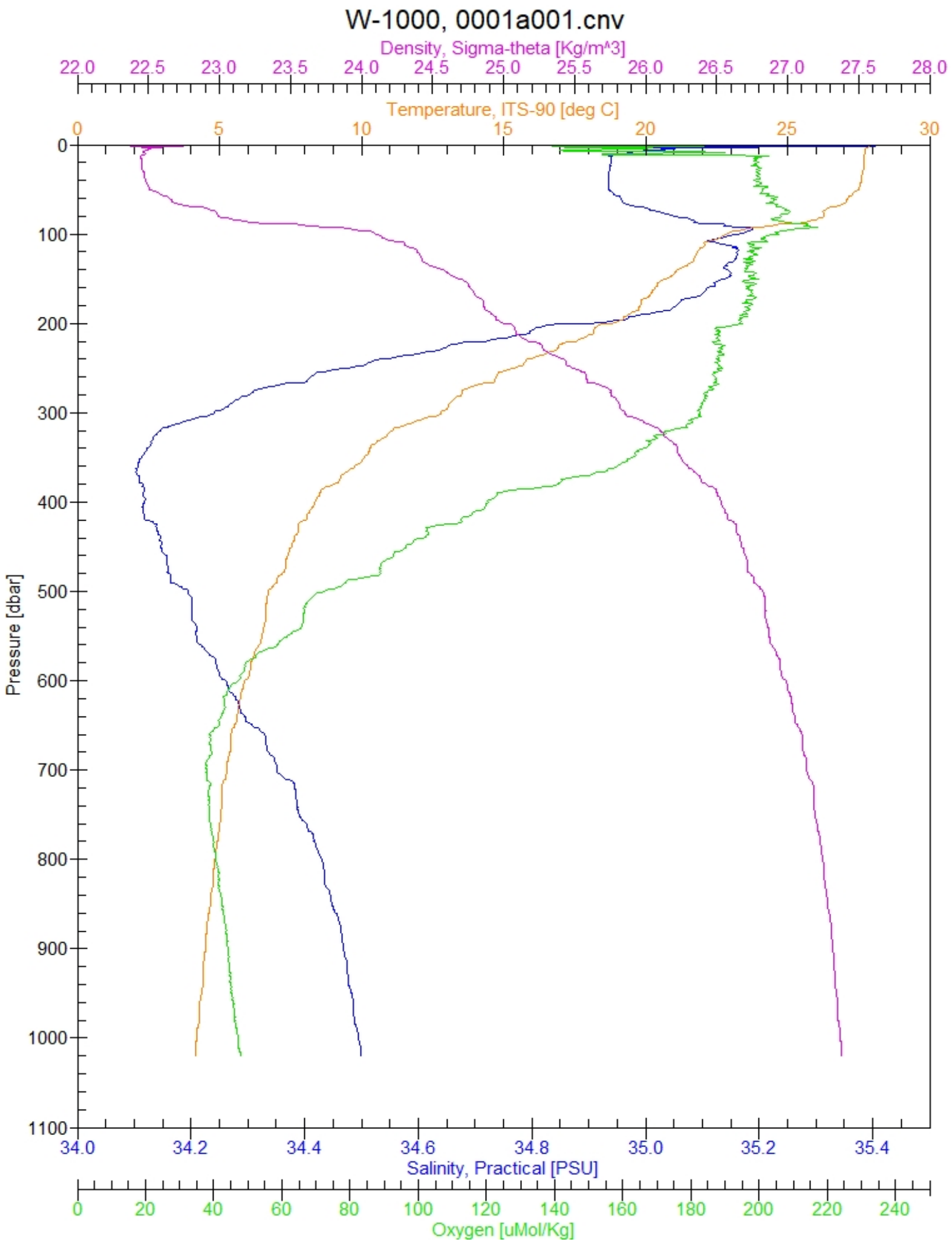
| | |
|---|---|
| Date Recovered | 9/19/2026 |
| Operators | MO, DH, DS, LOL, GLP, SM |
| Position out | 22° 35.7424 N 158° 02.4174 W |
| Time PIT is out of water (HST) | 6:10 |
| Wind | 23.4 kts 69° E |
| Sea State | 1-2 m waves, calm |
| Comments | |

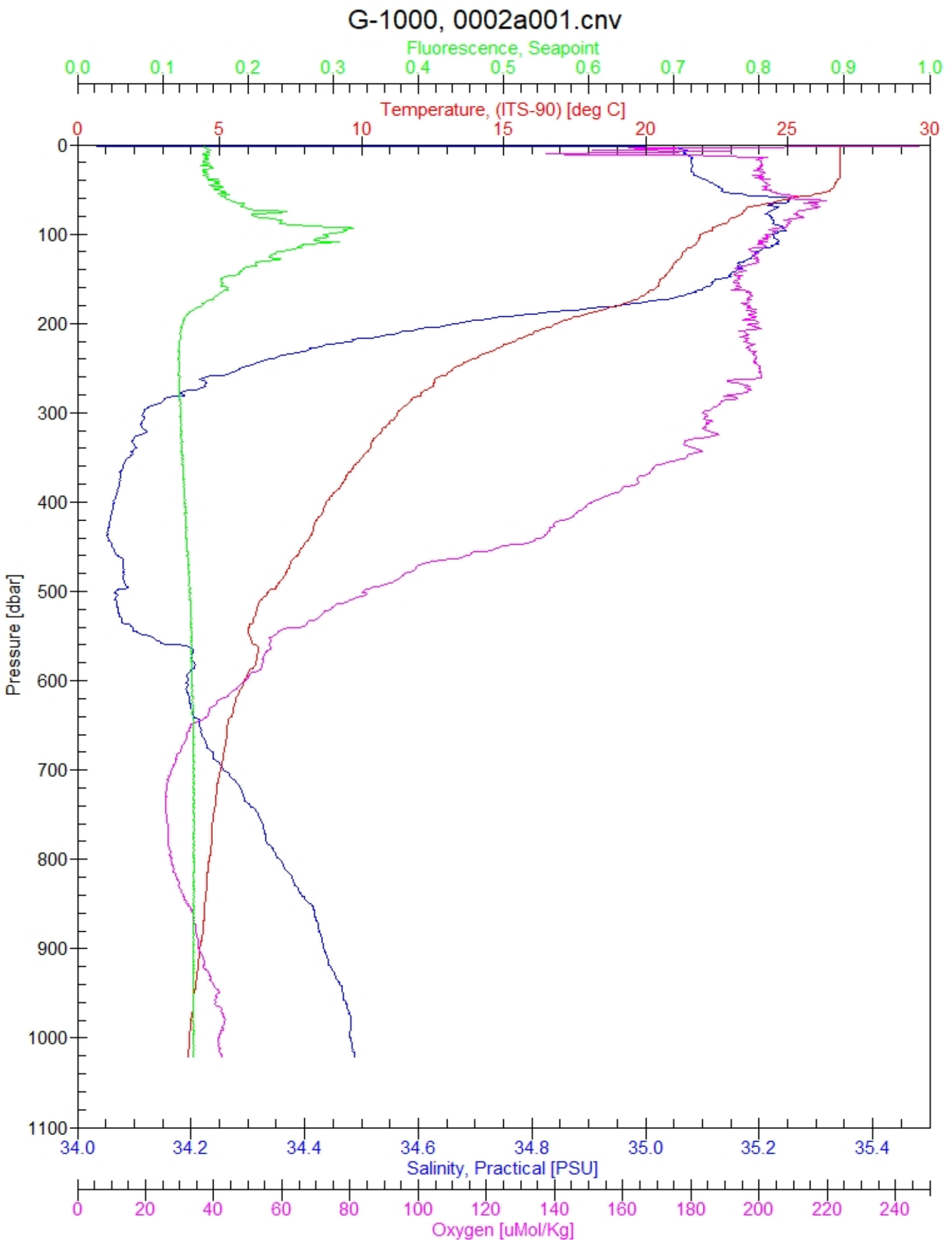

G-1000, 0001a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

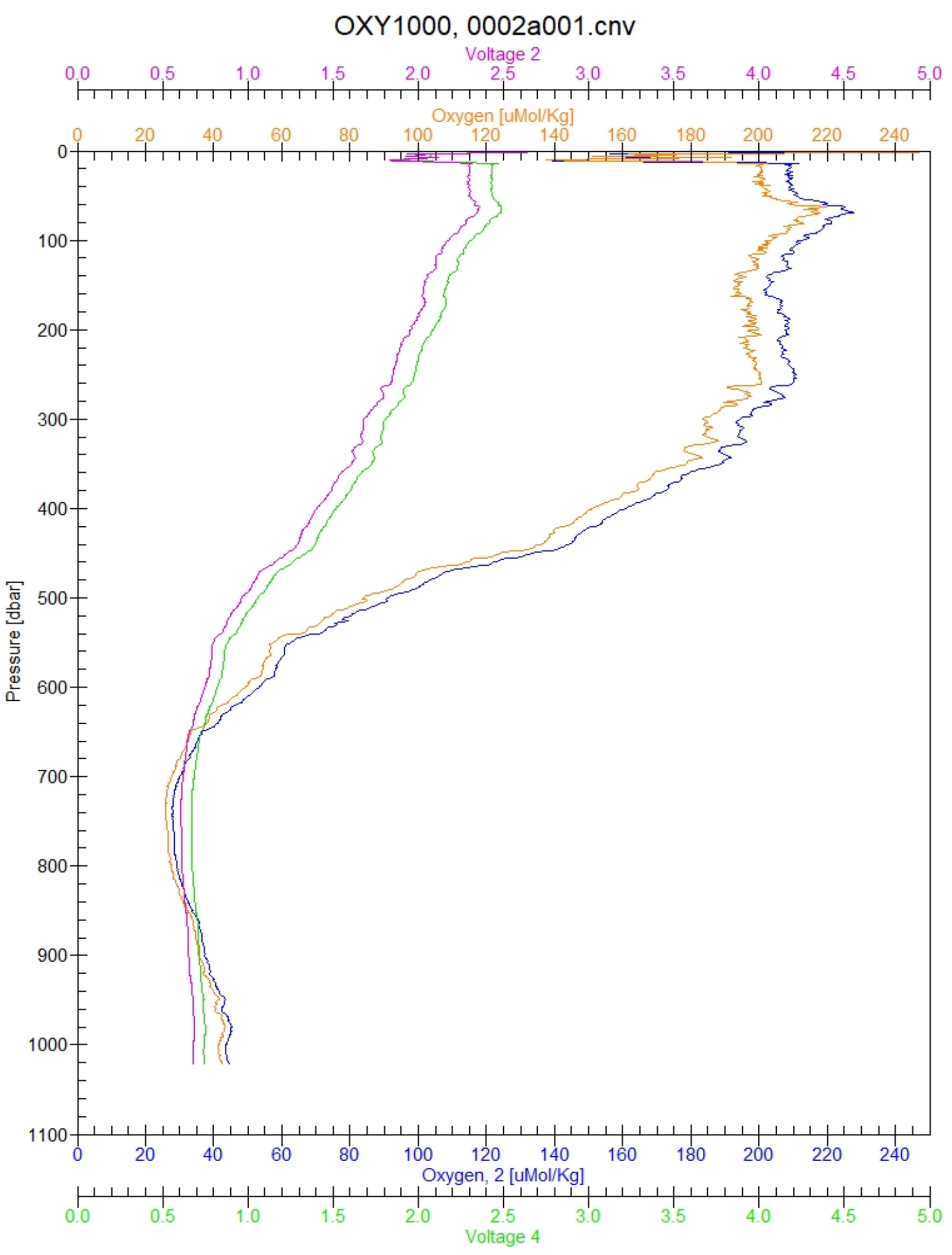

OXY1000, 0001a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

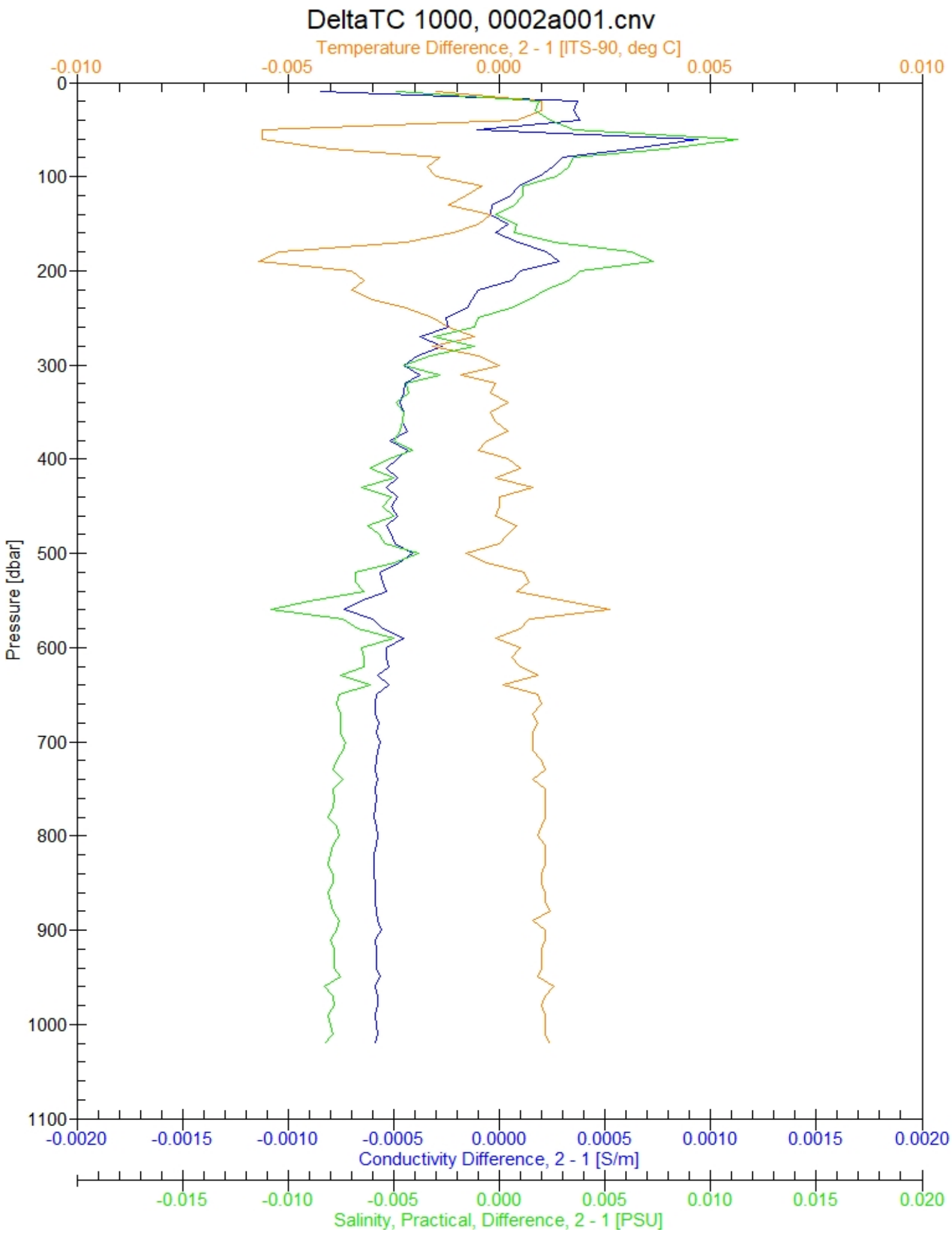

DeltaTC 1000, 0001a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

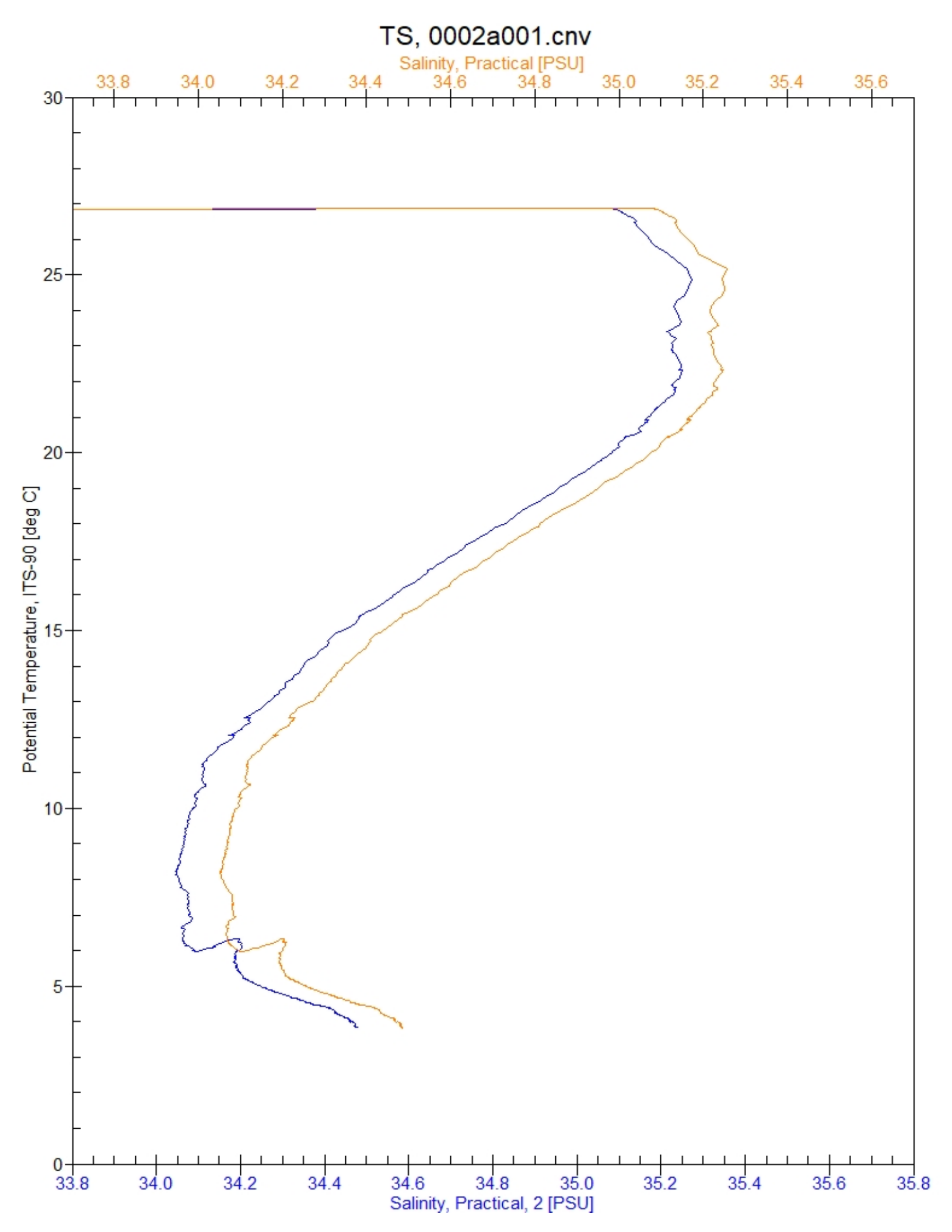

TS, 0001a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

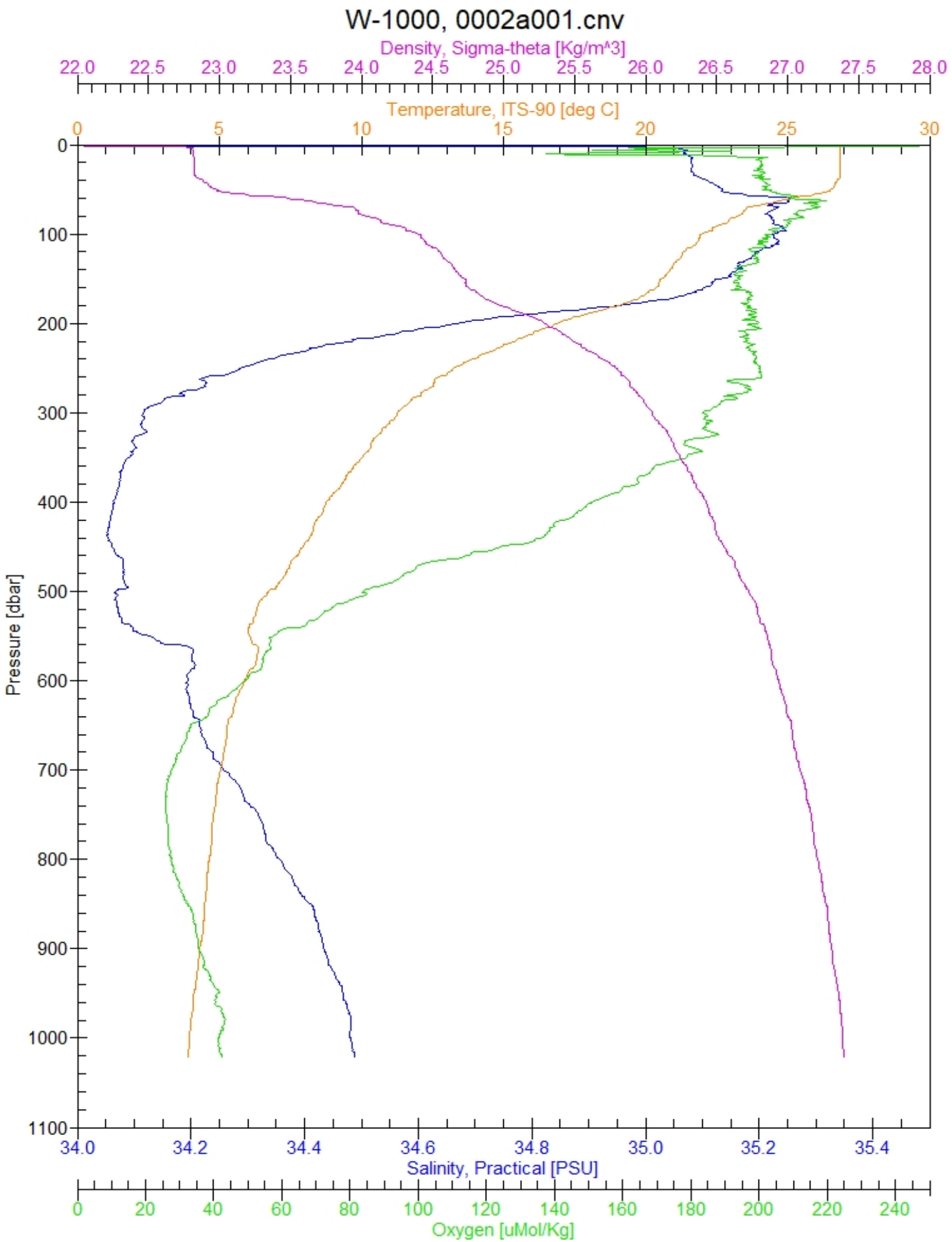

W-1000, 0001a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

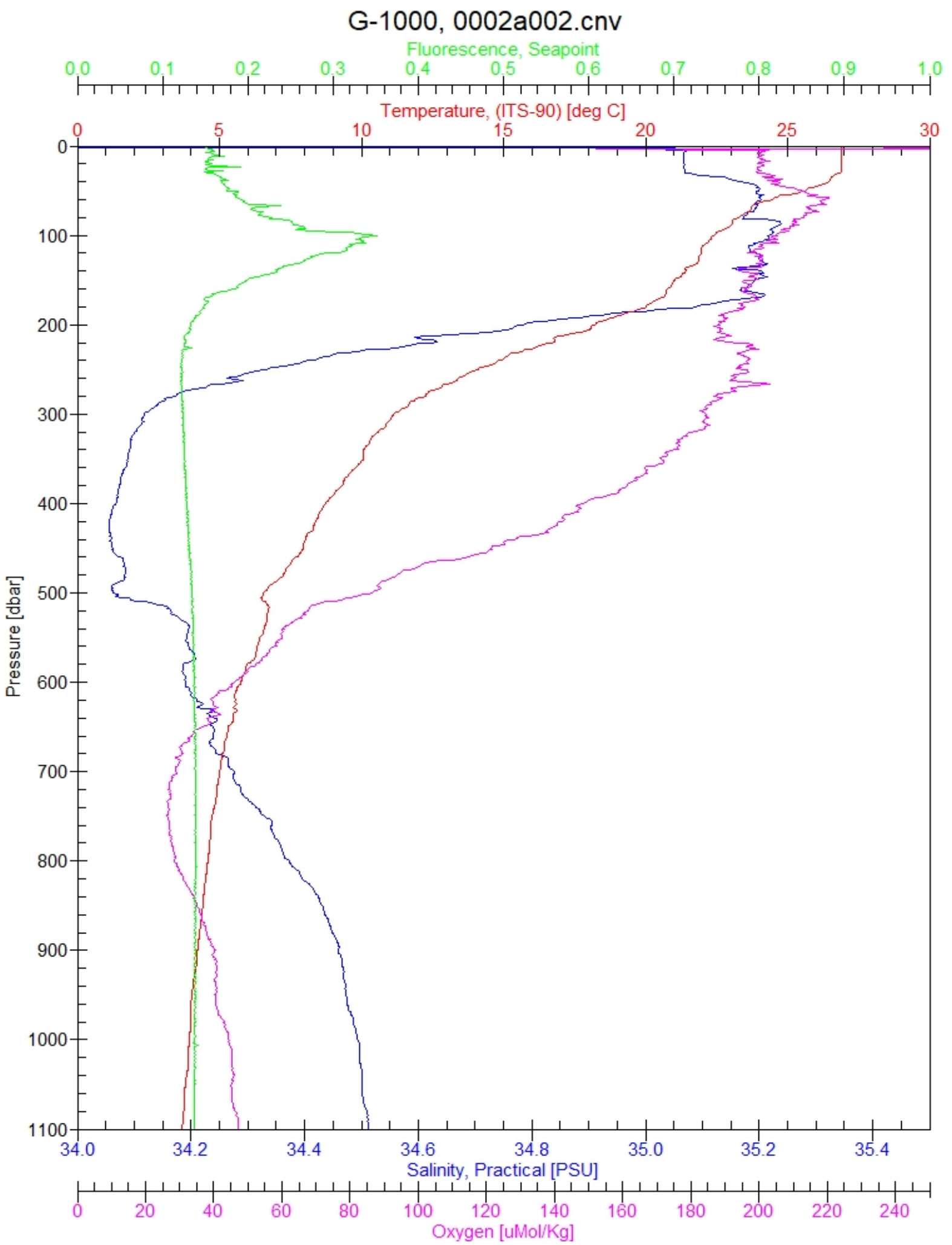

G-1000, 0002a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

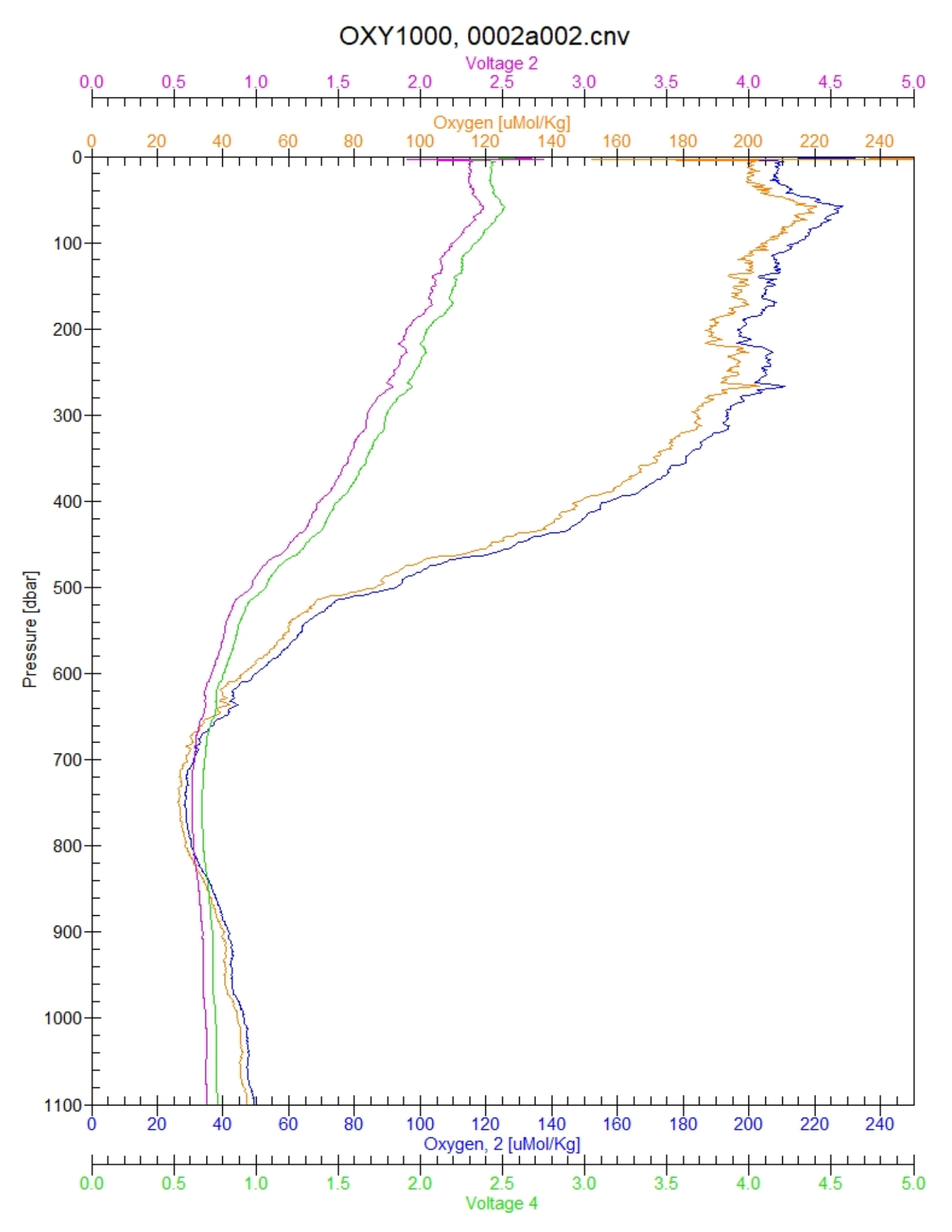

OXY1000, 0002a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
Voltage 4

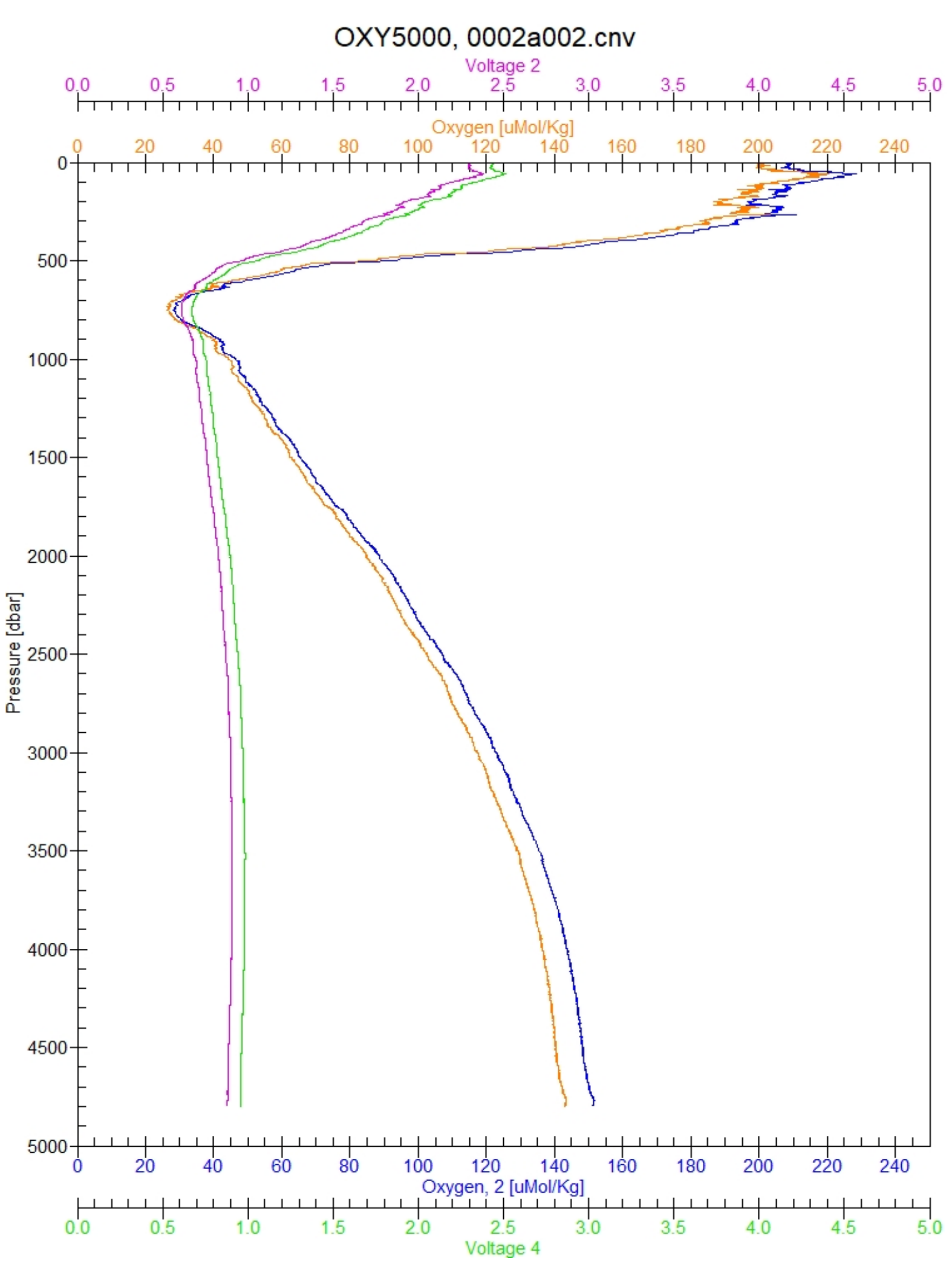

DeltaTC 1000, 0002a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

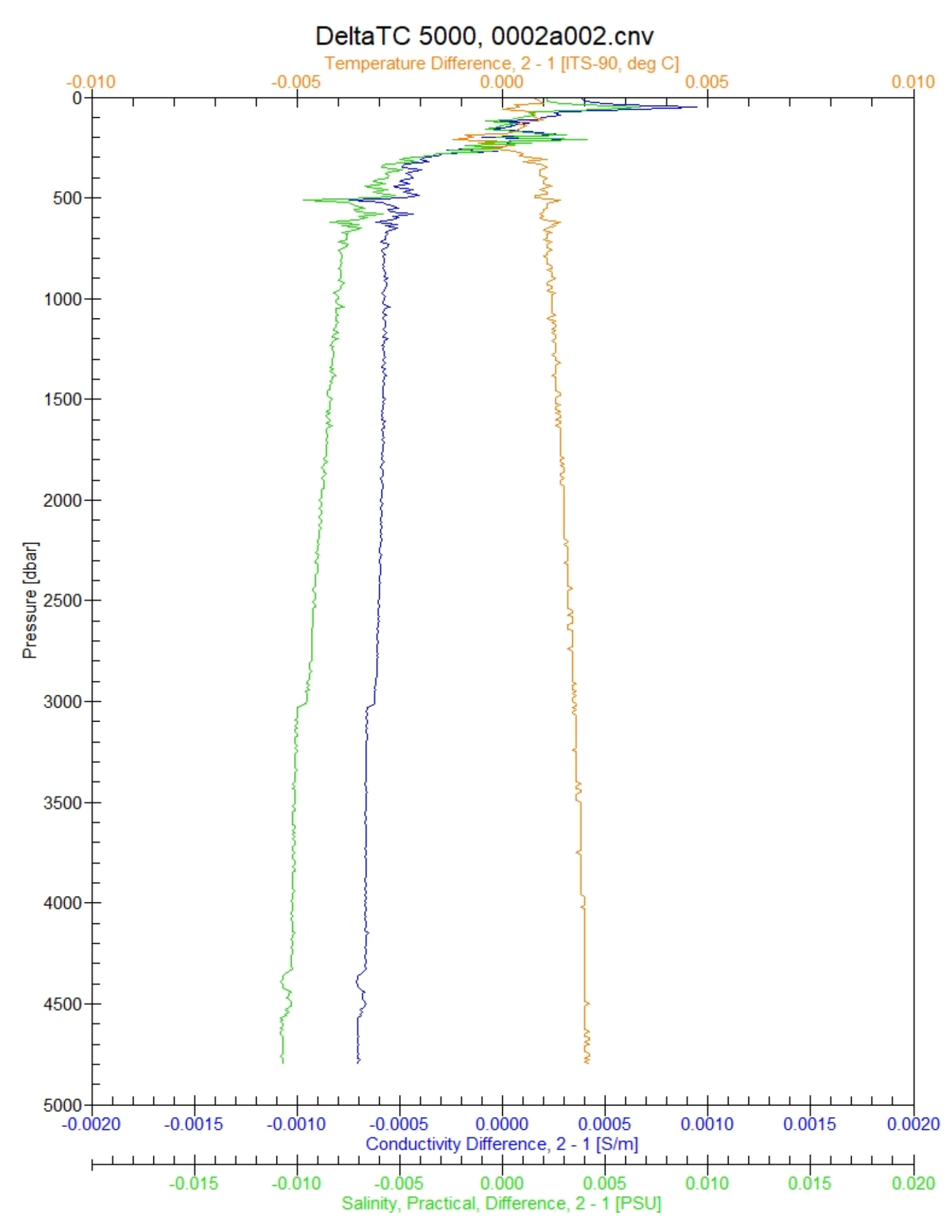

TS, 0002a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

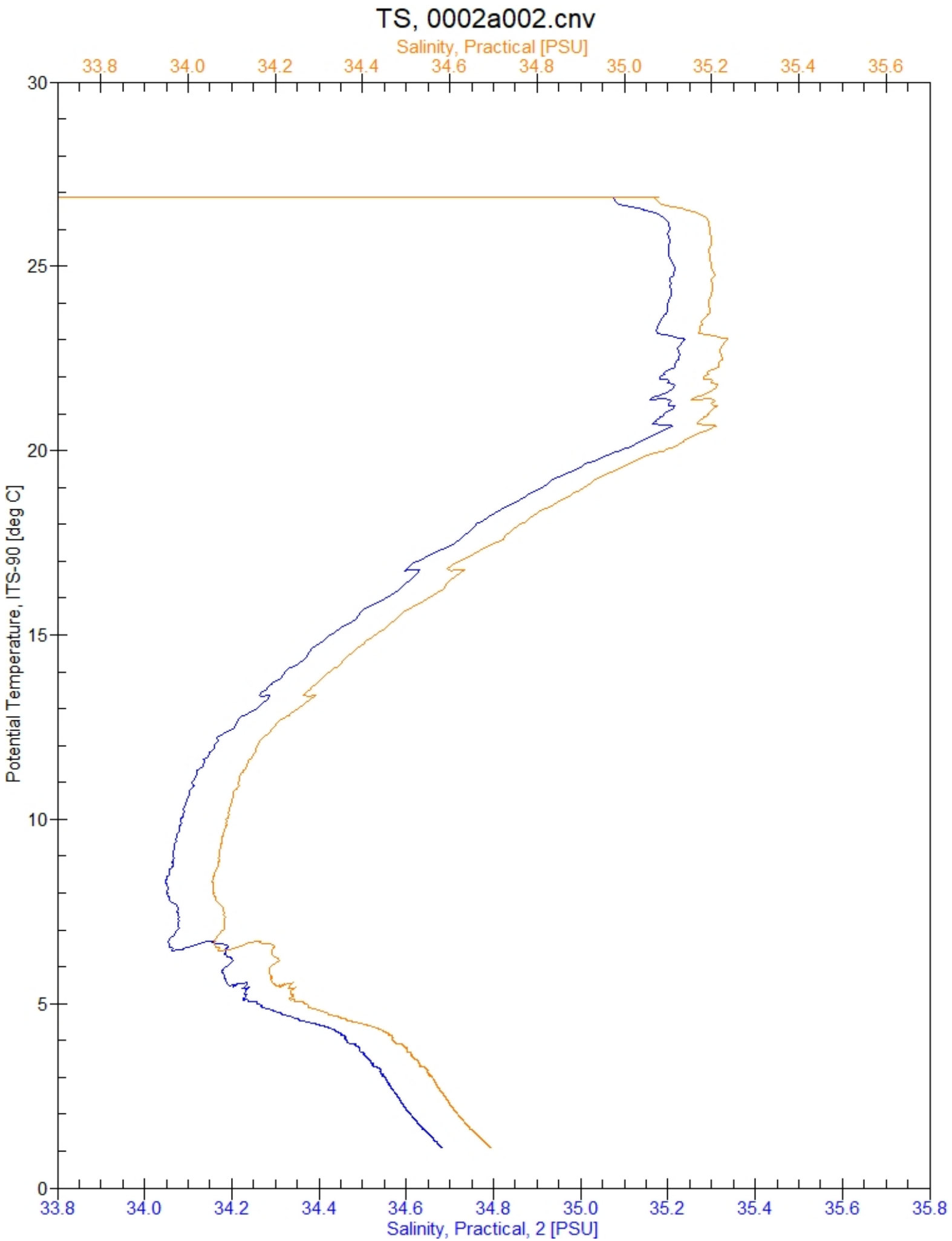

W-1000, 0002a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

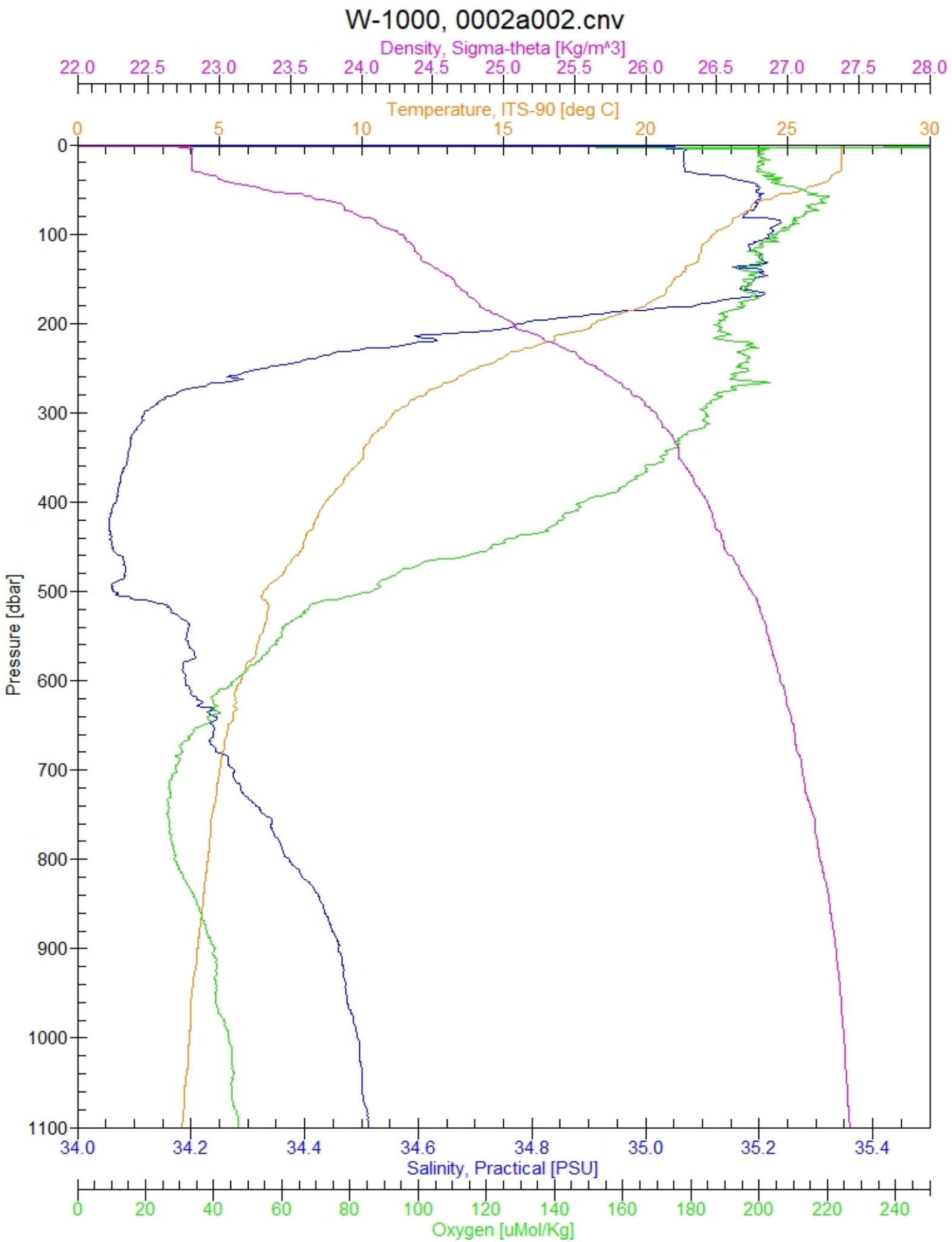

G-1000, 0002a002.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

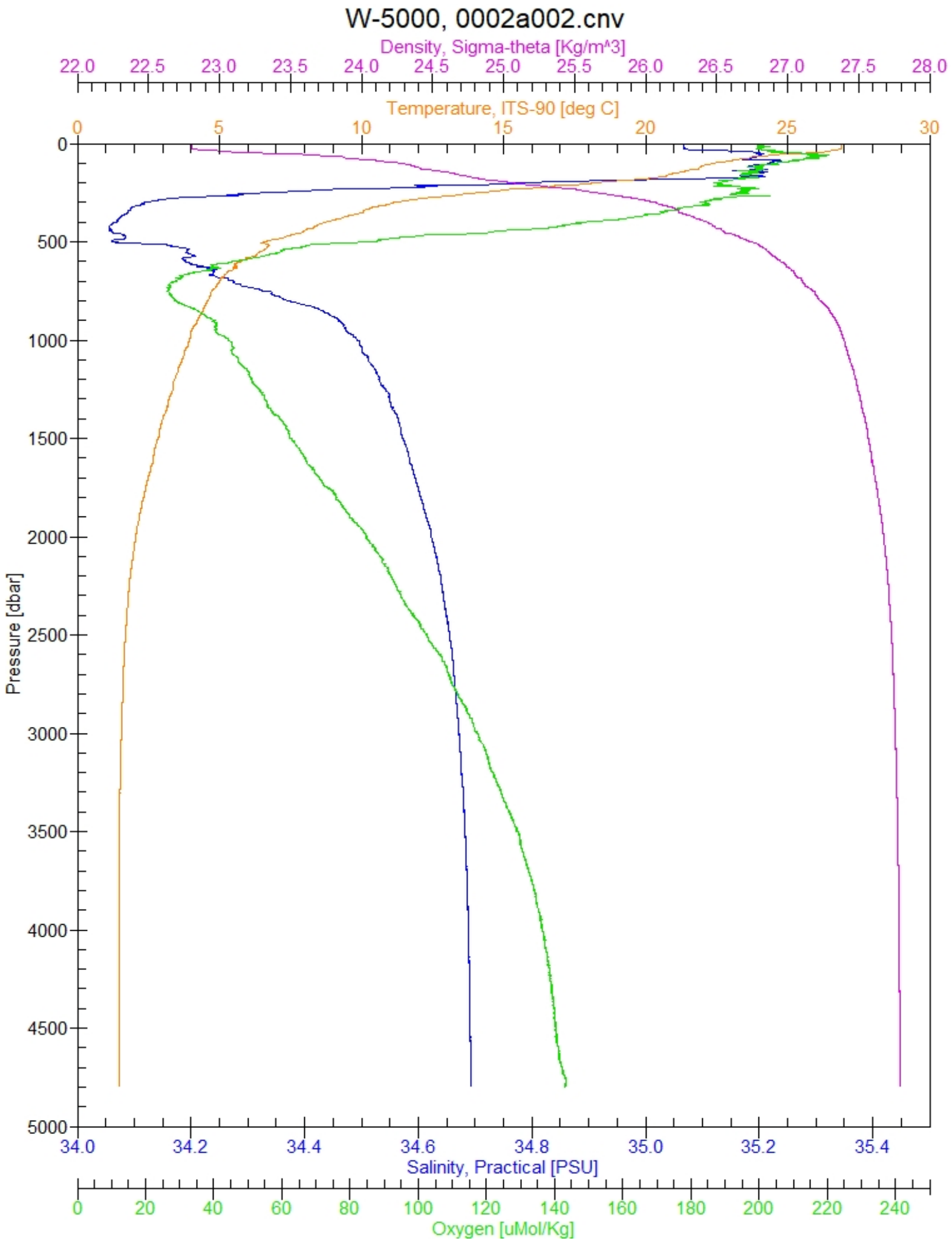

OXY1000, 0002a002.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

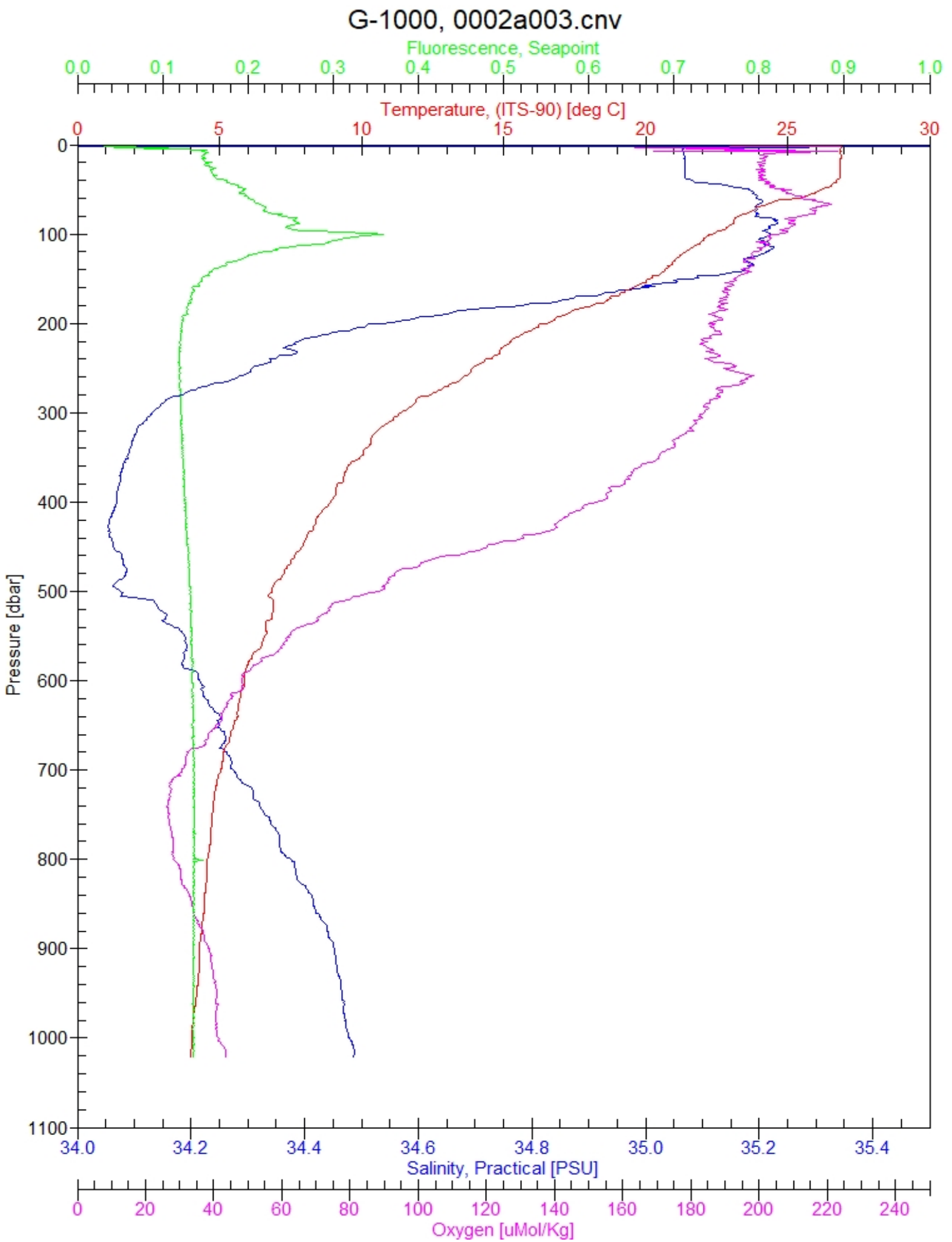

OXY5000, 0002a002.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

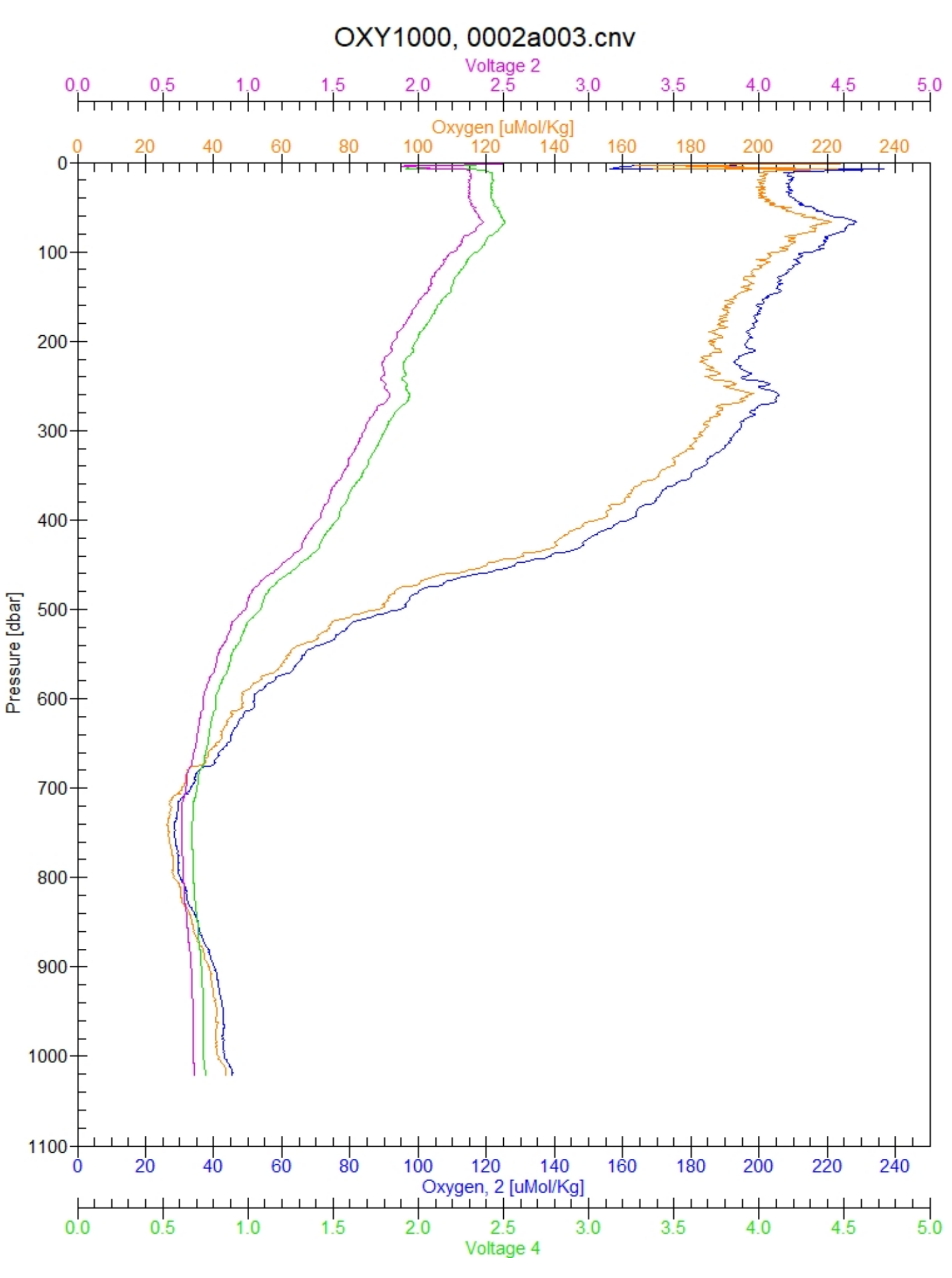

DeltaTC 5000, 0002a002.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

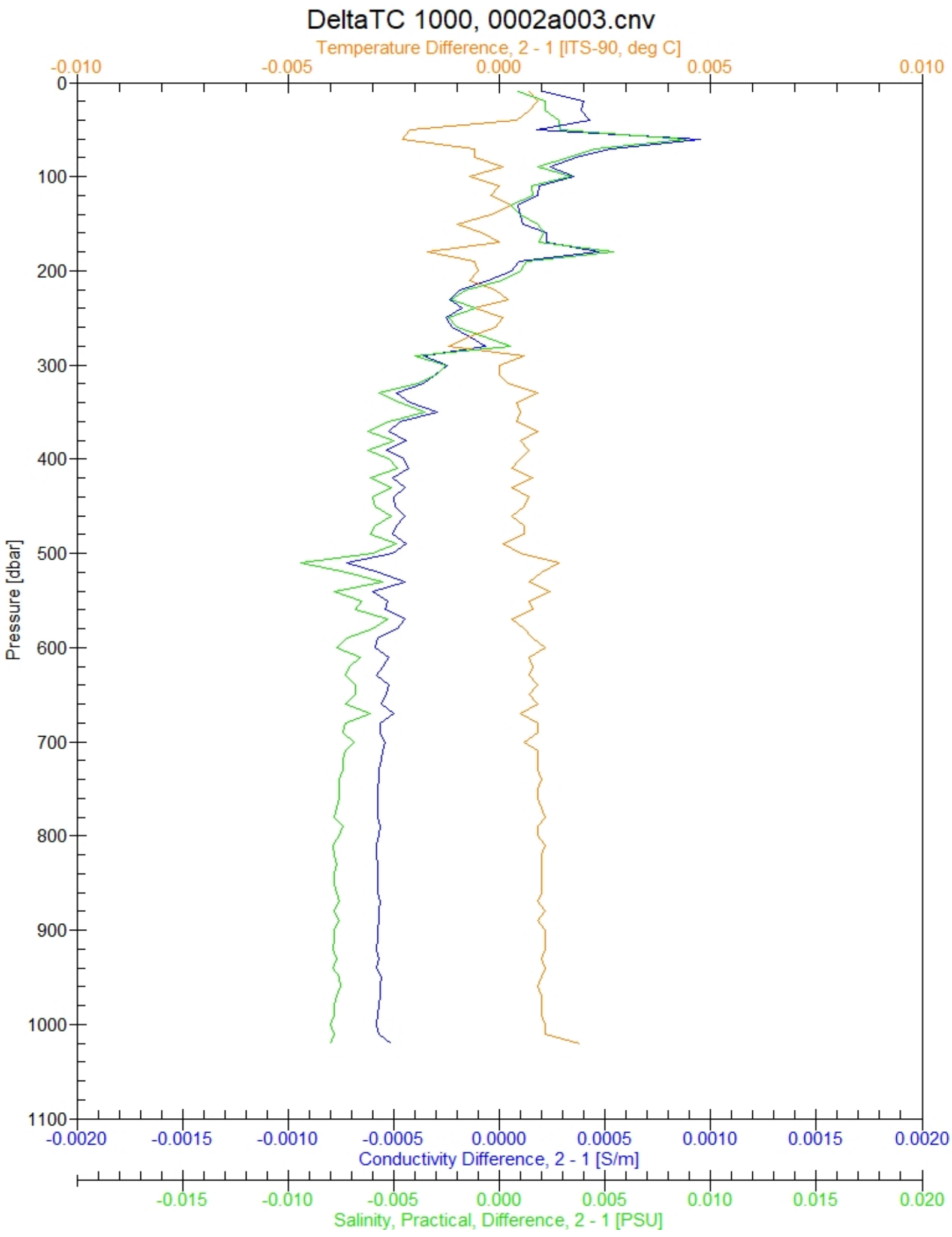

TS, 0002a002.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

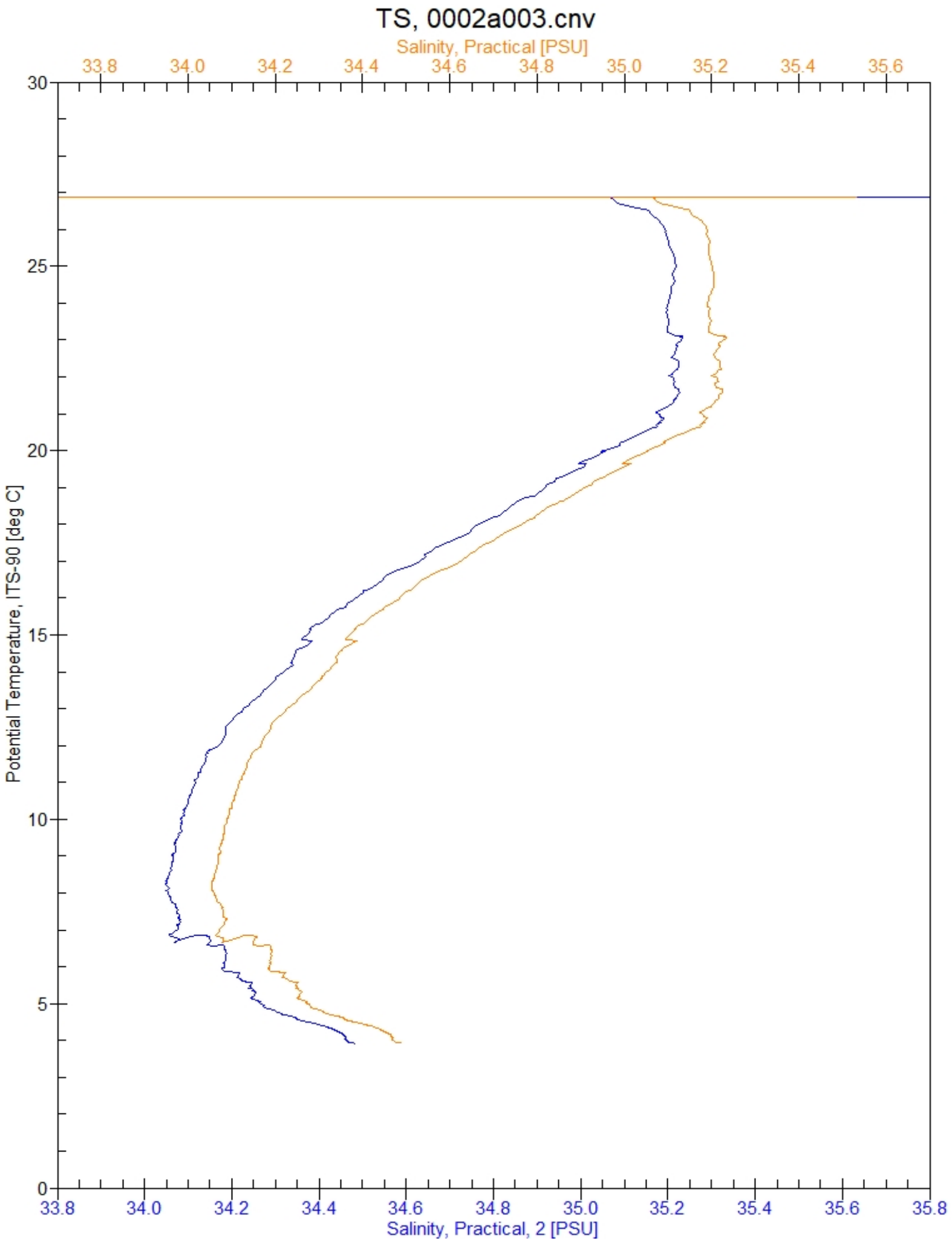

W-1000, 0002a002.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

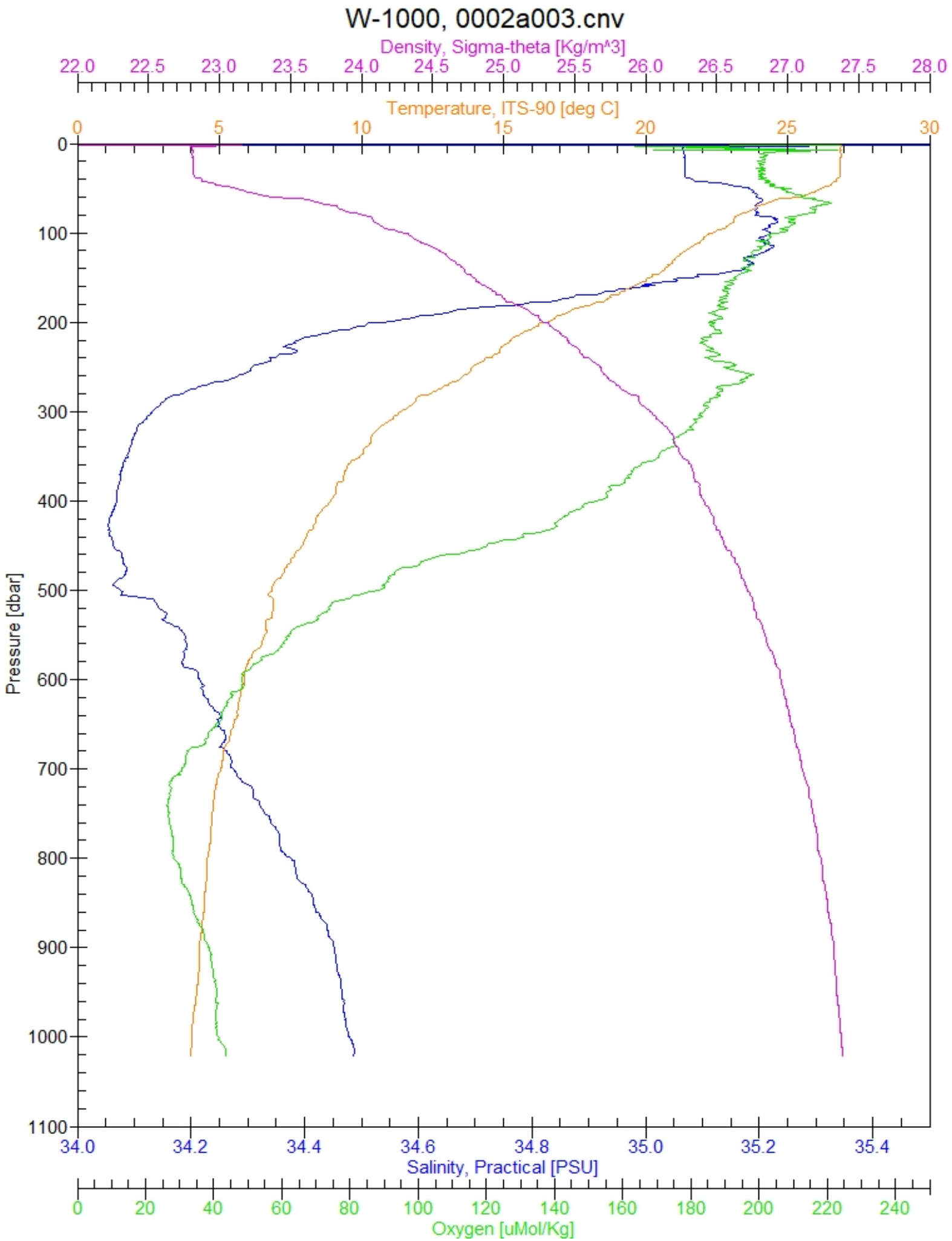

W-5000, 0002a002.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

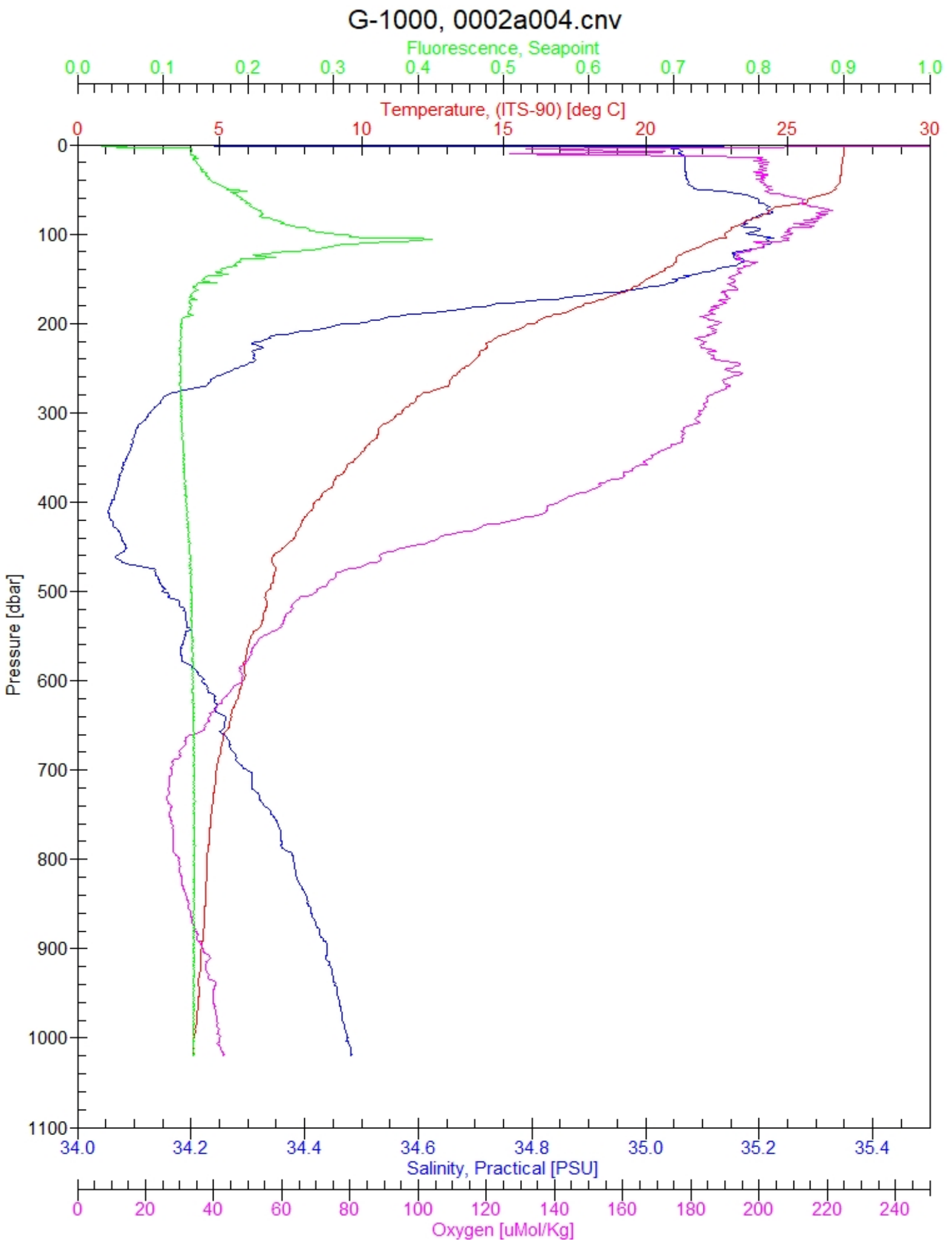

G-1000, 0002a003.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

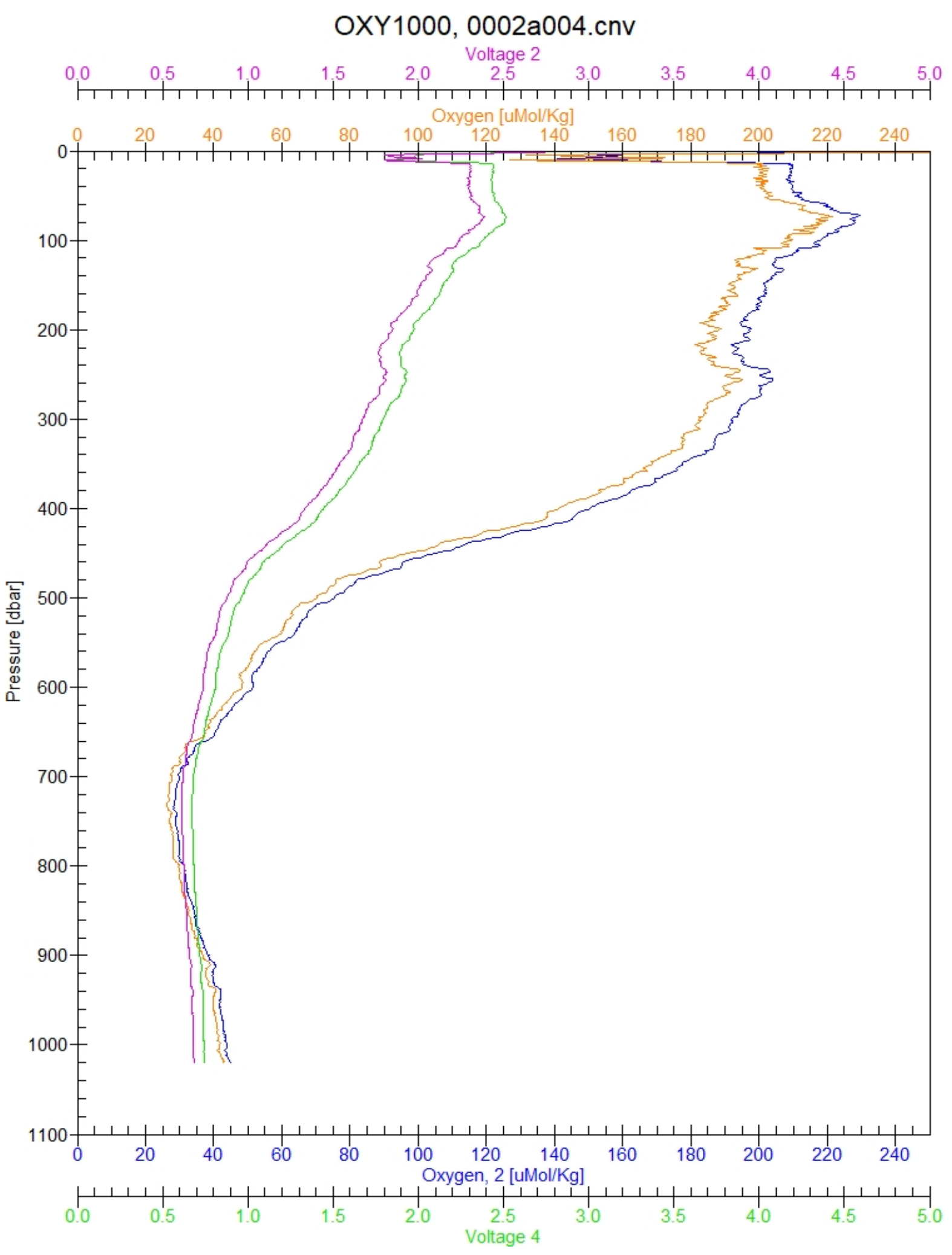

OXY1000, 0002a003.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Voltage 4
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

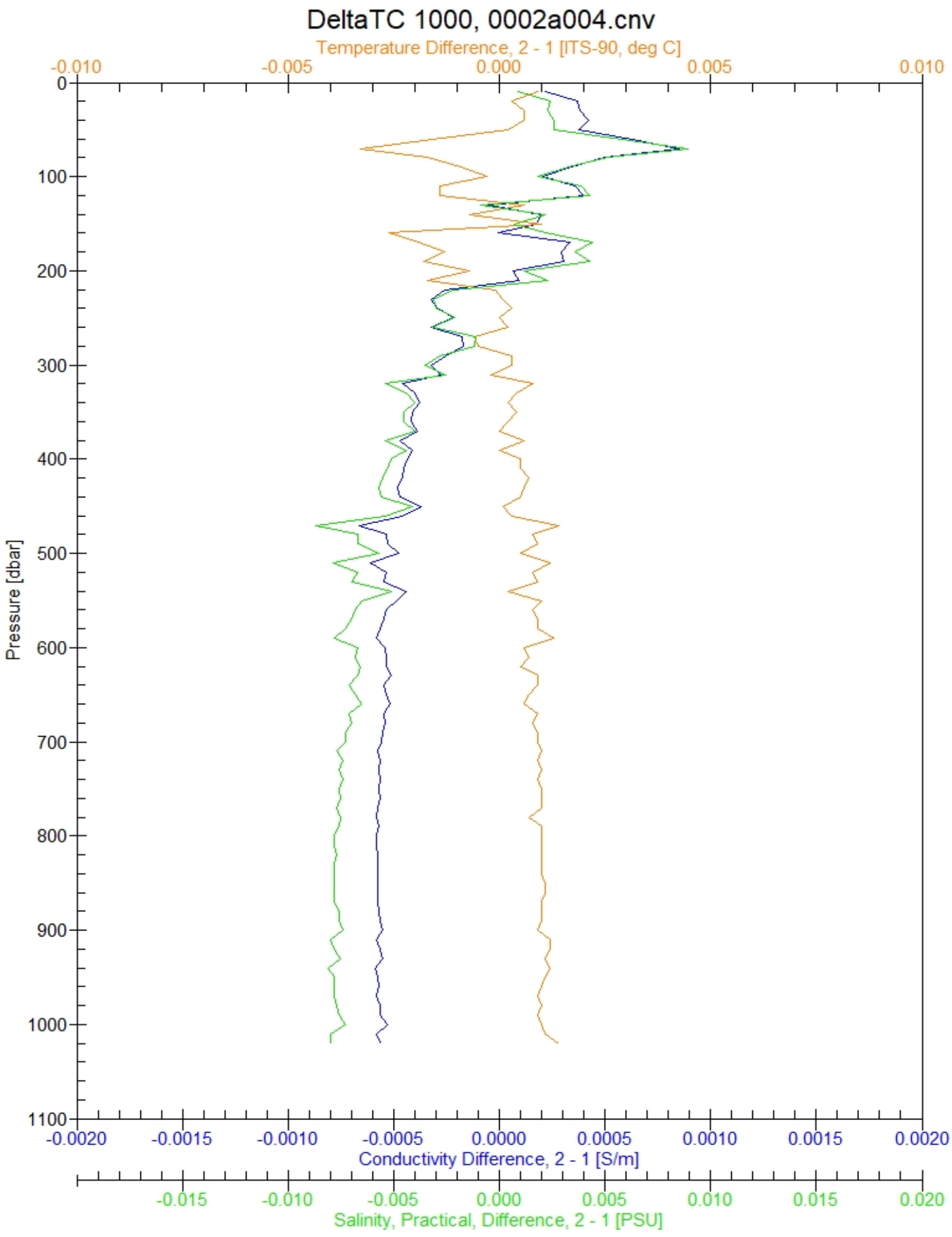

DeltaTC 1000, 0002a003.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

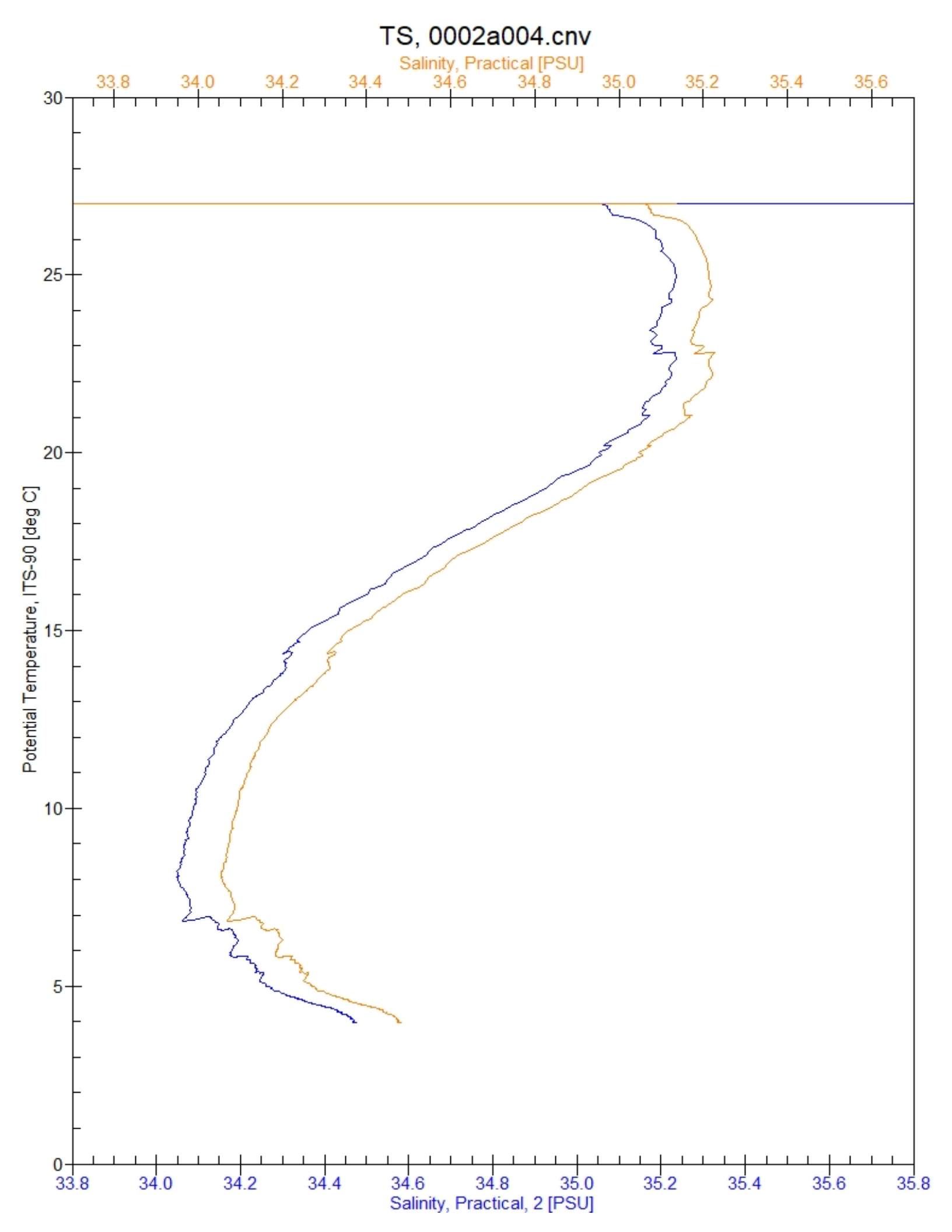

TS, 0002a003.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

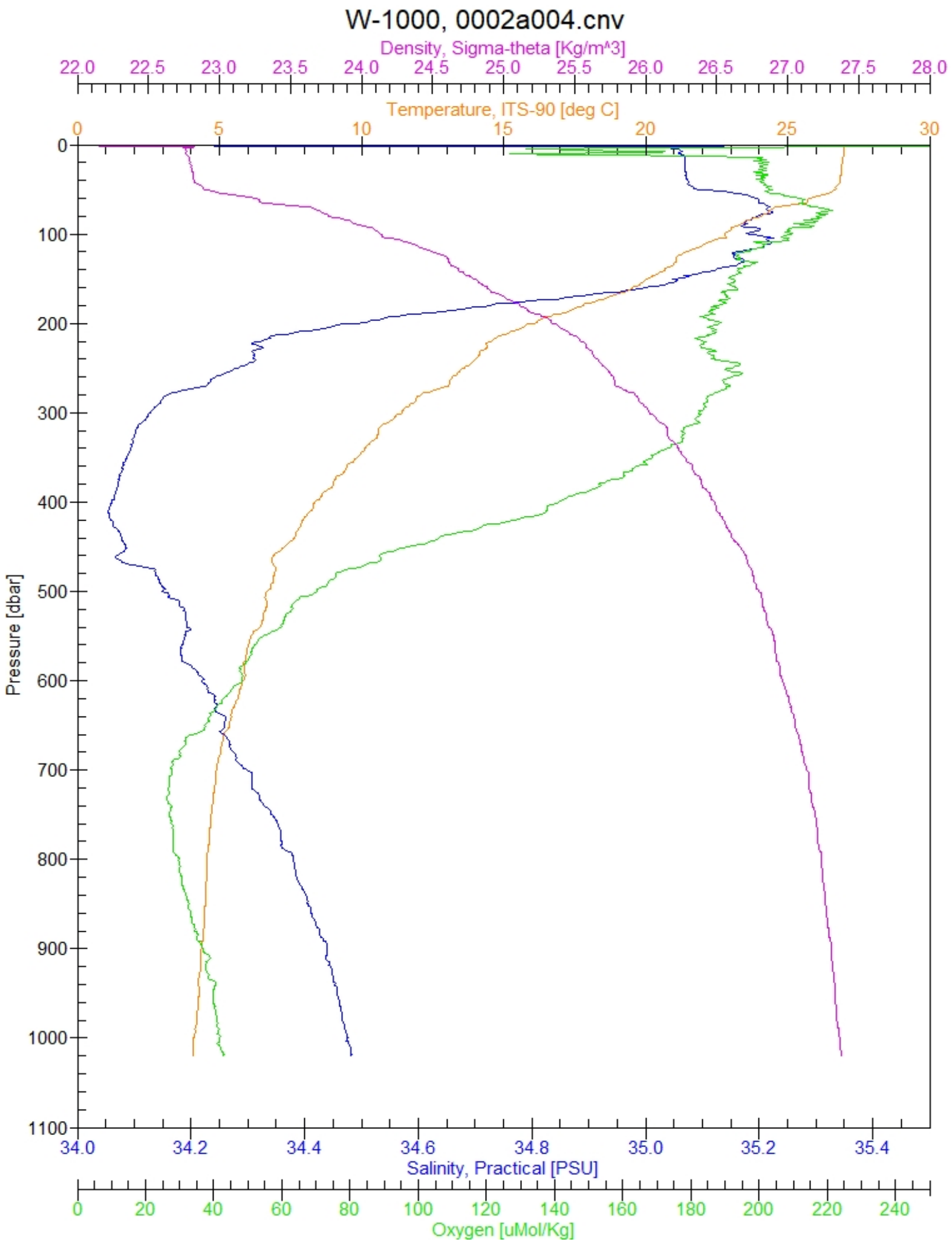

W-1000, 0002a003.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

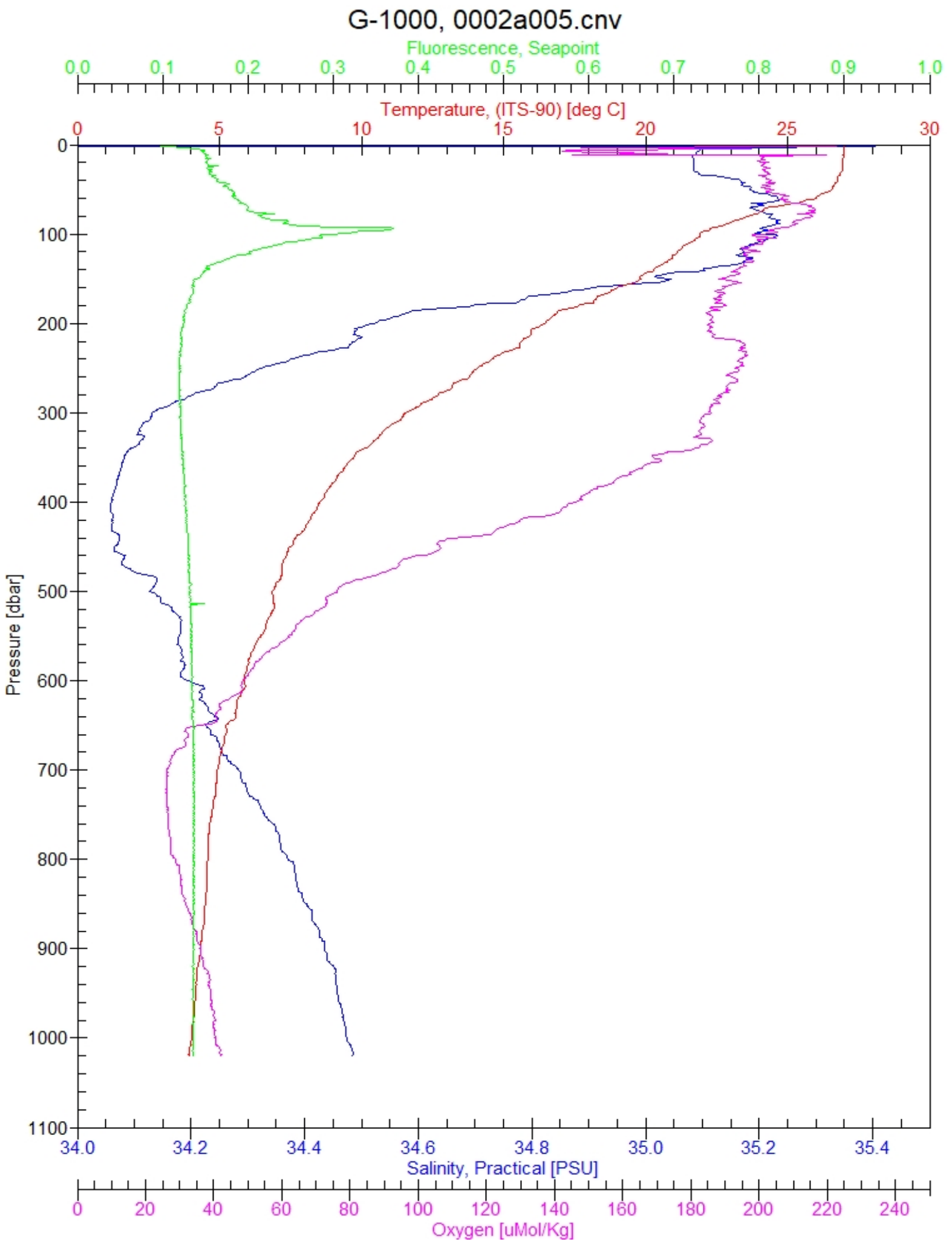

G-1000, 0002a004.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

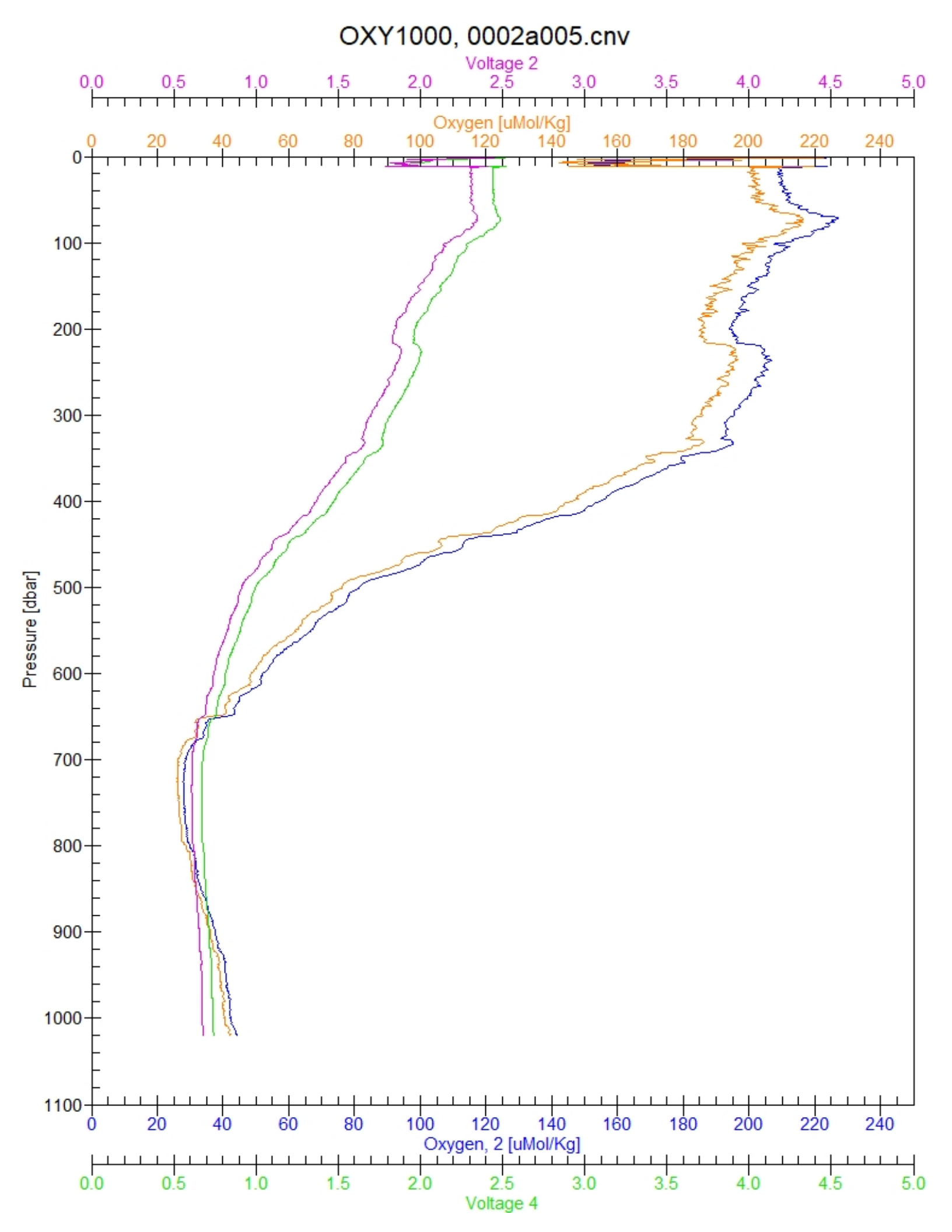

OXY1000, 0002a004.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

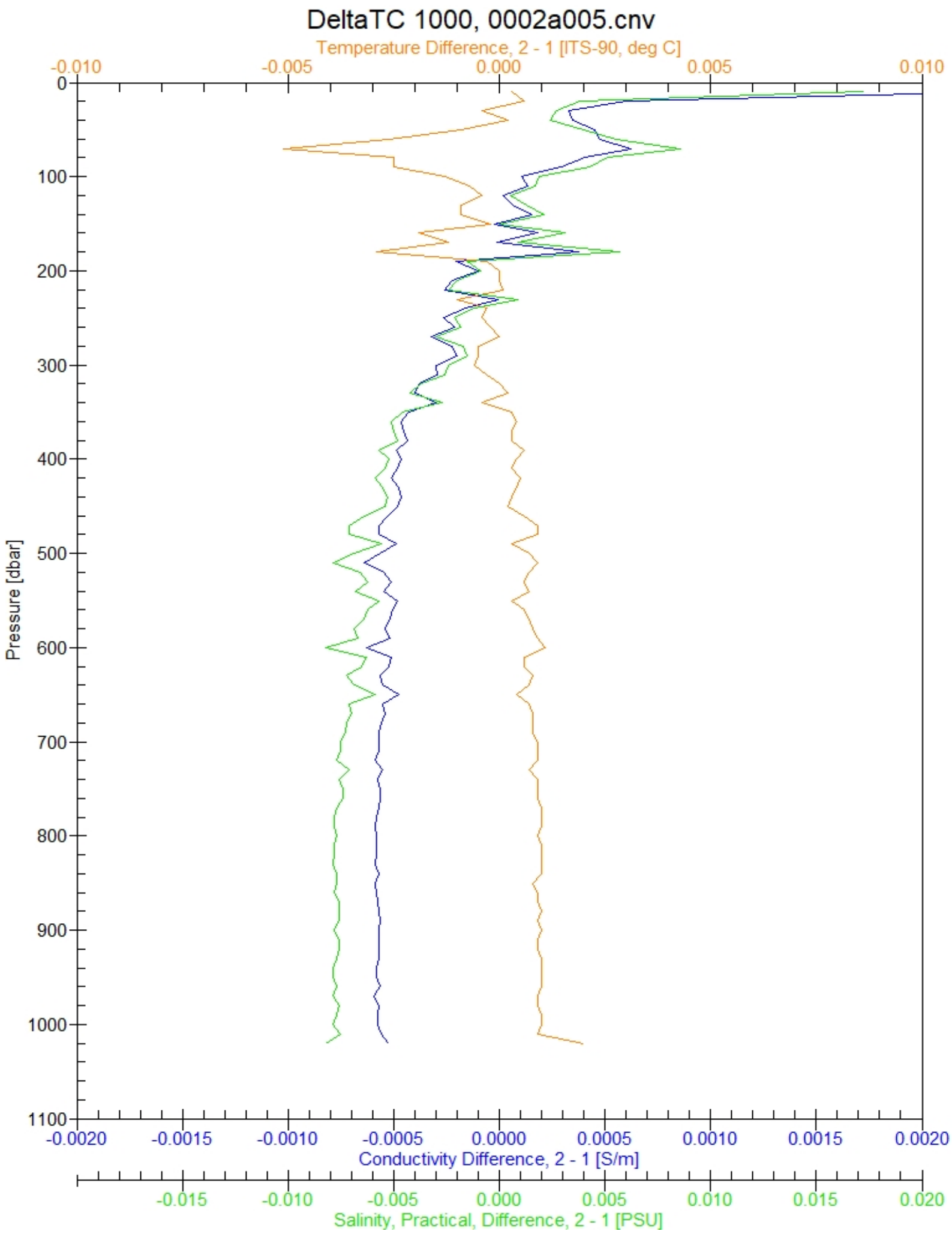

DeltaTC 1000, 0002a004.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

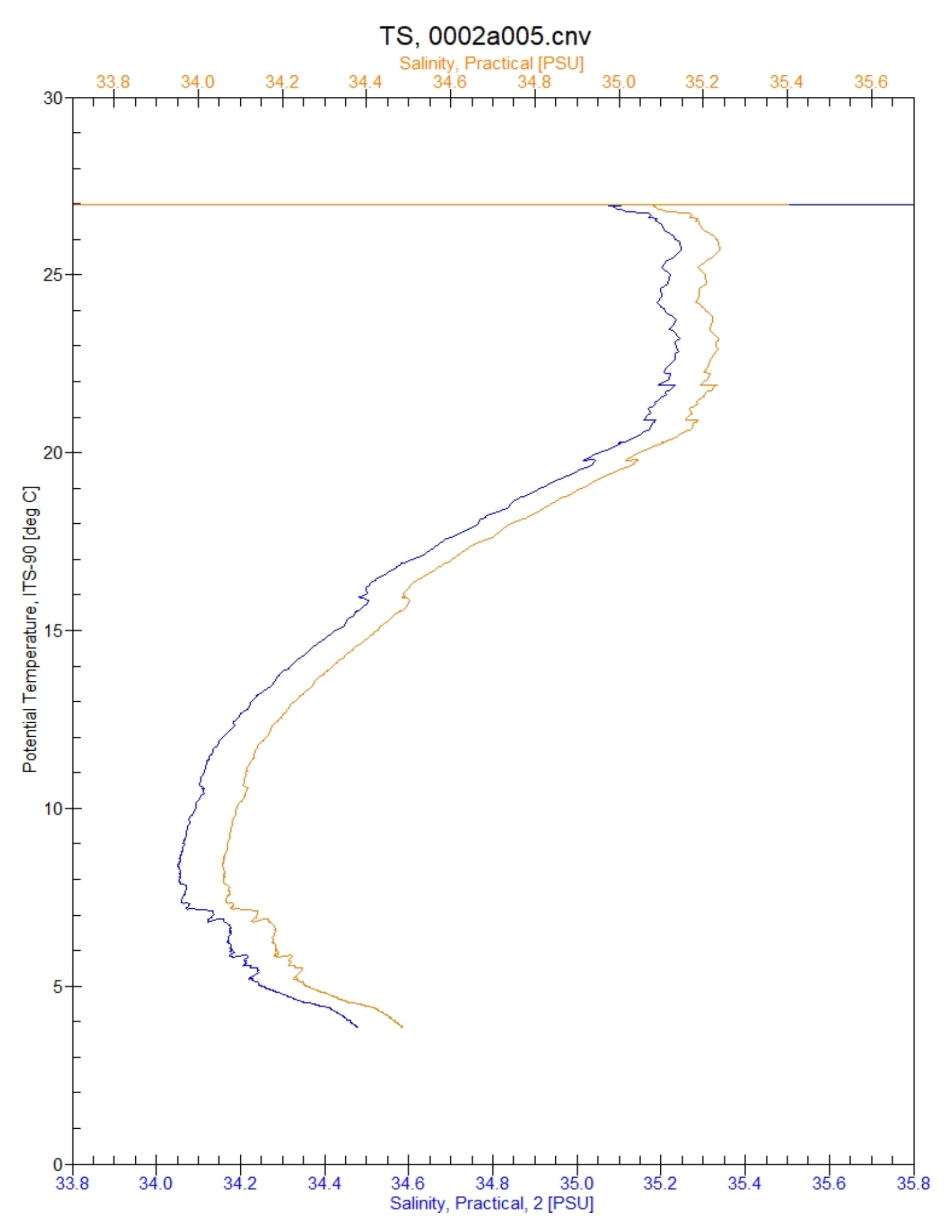

TS, 0002a004.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

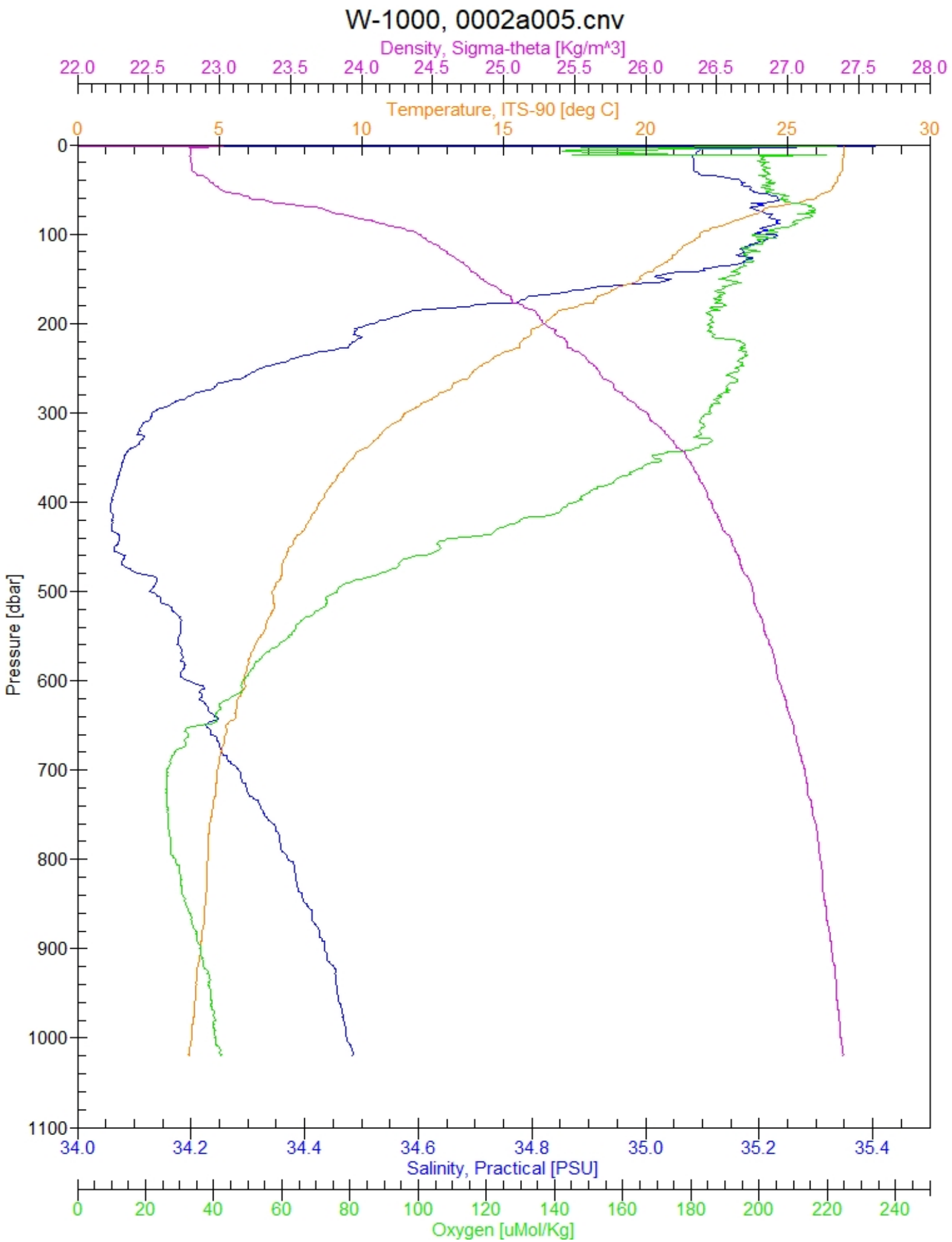

W-1000, 0002a004.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

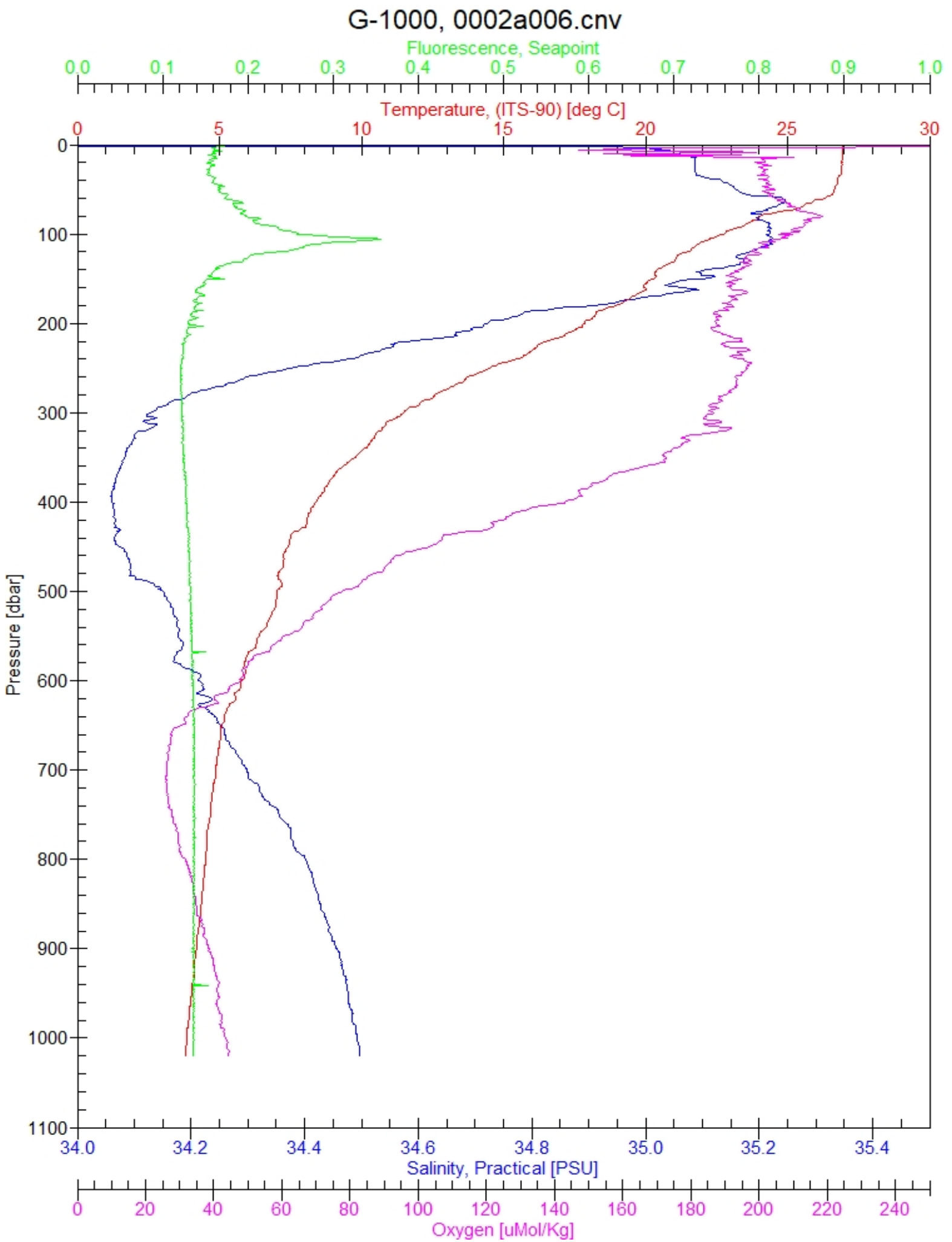

G-1000, 0002a005.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

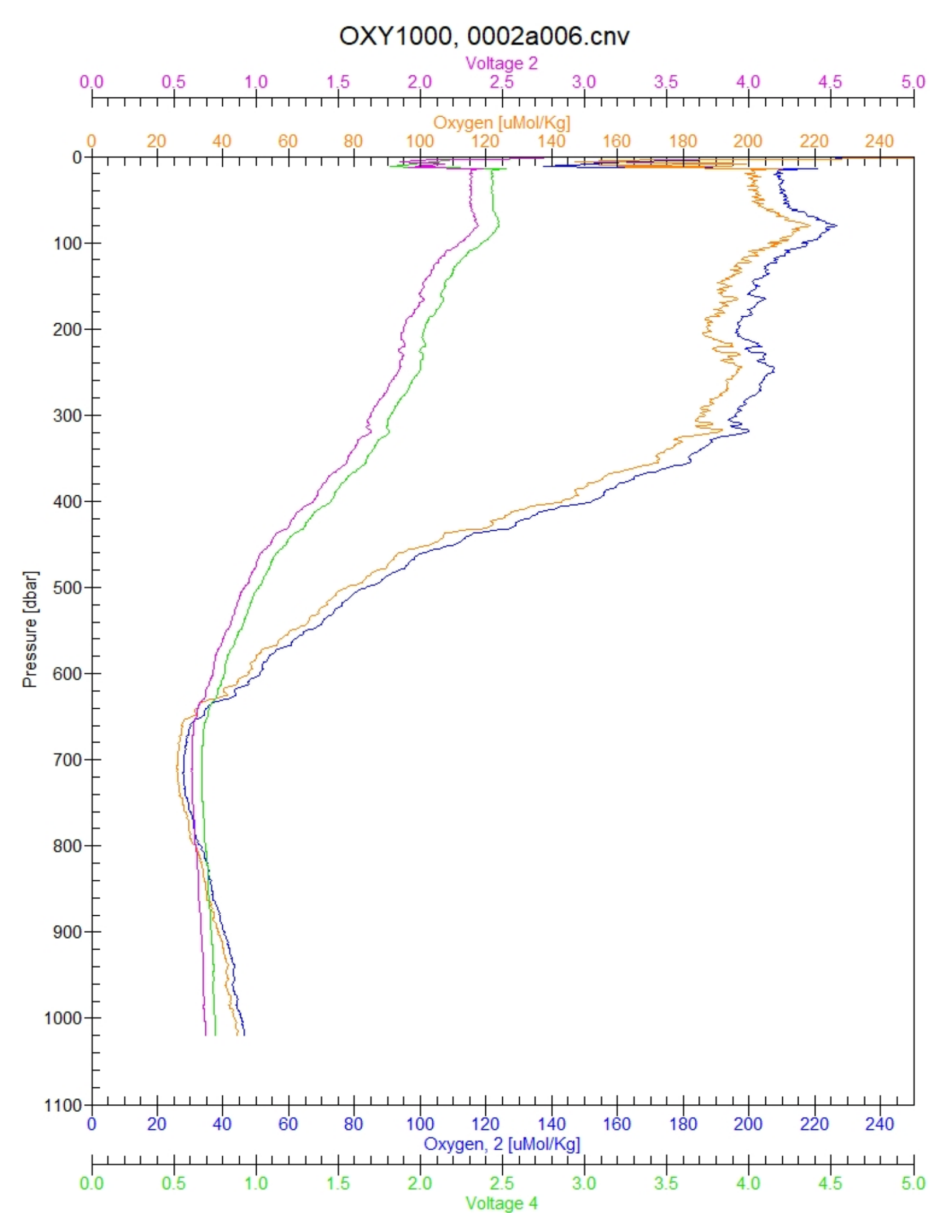

OXY1000, 0002a005.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

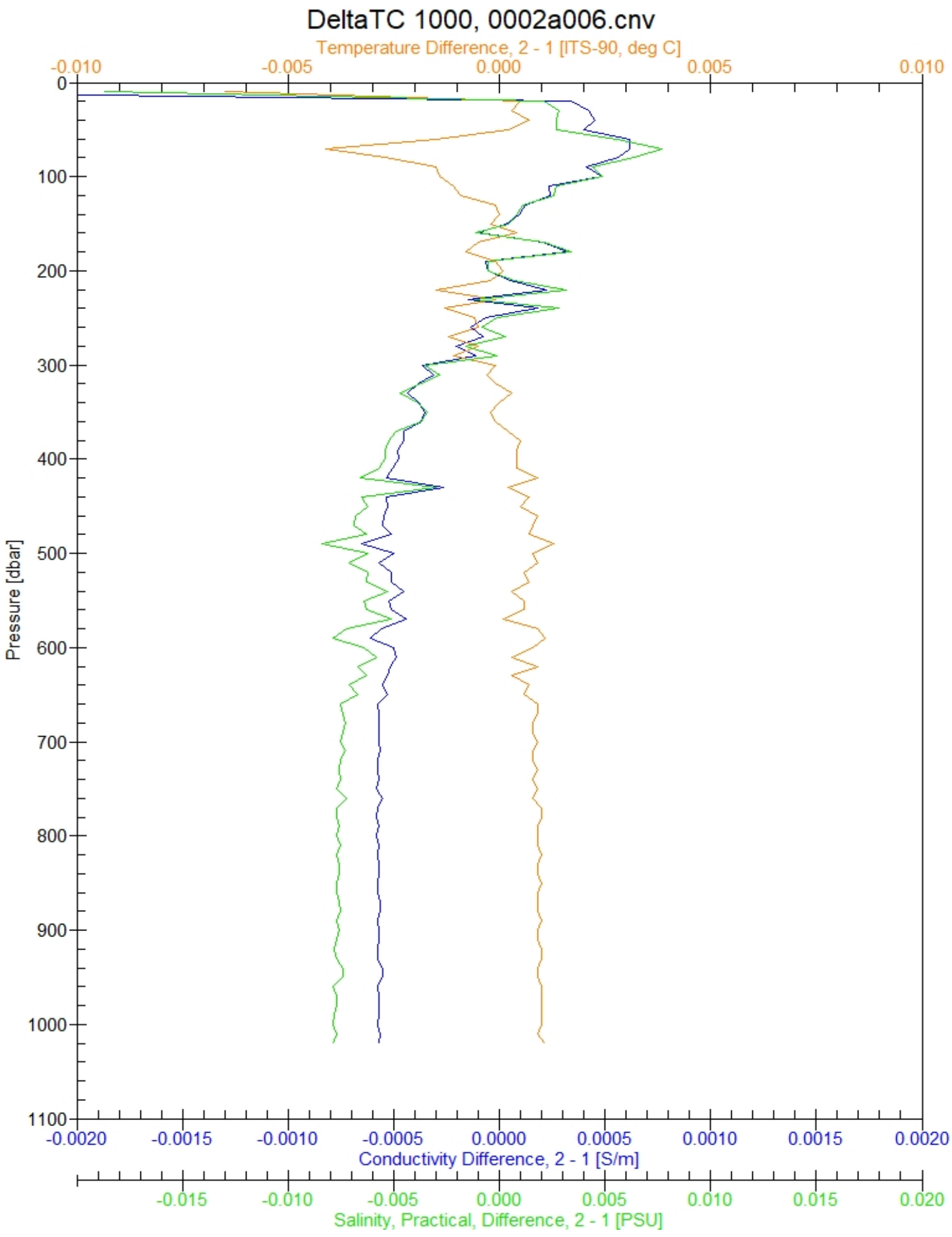

DeltaTC 1000, 0002a005.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

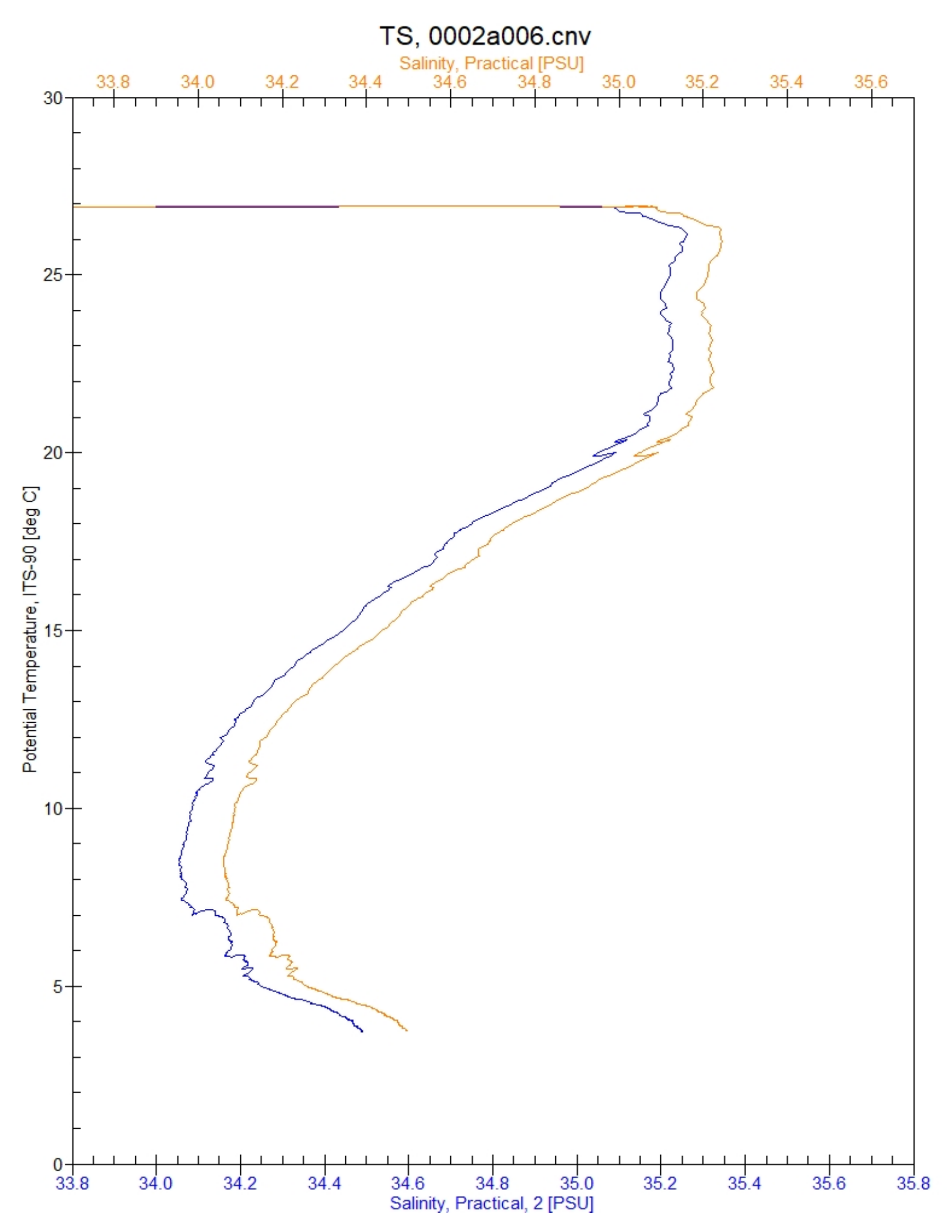

TS, 0002a005.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

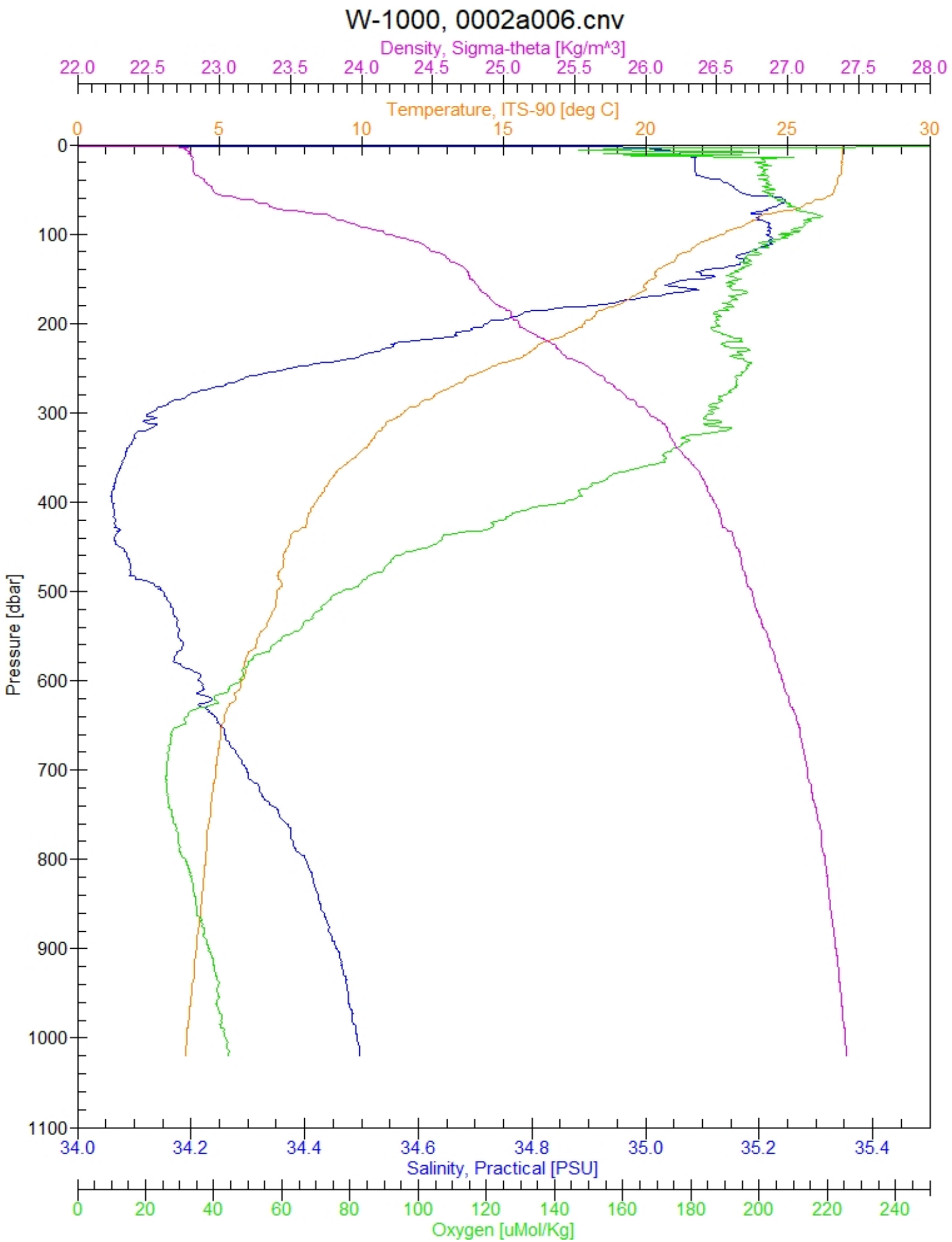

W-1000, 0002a005.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

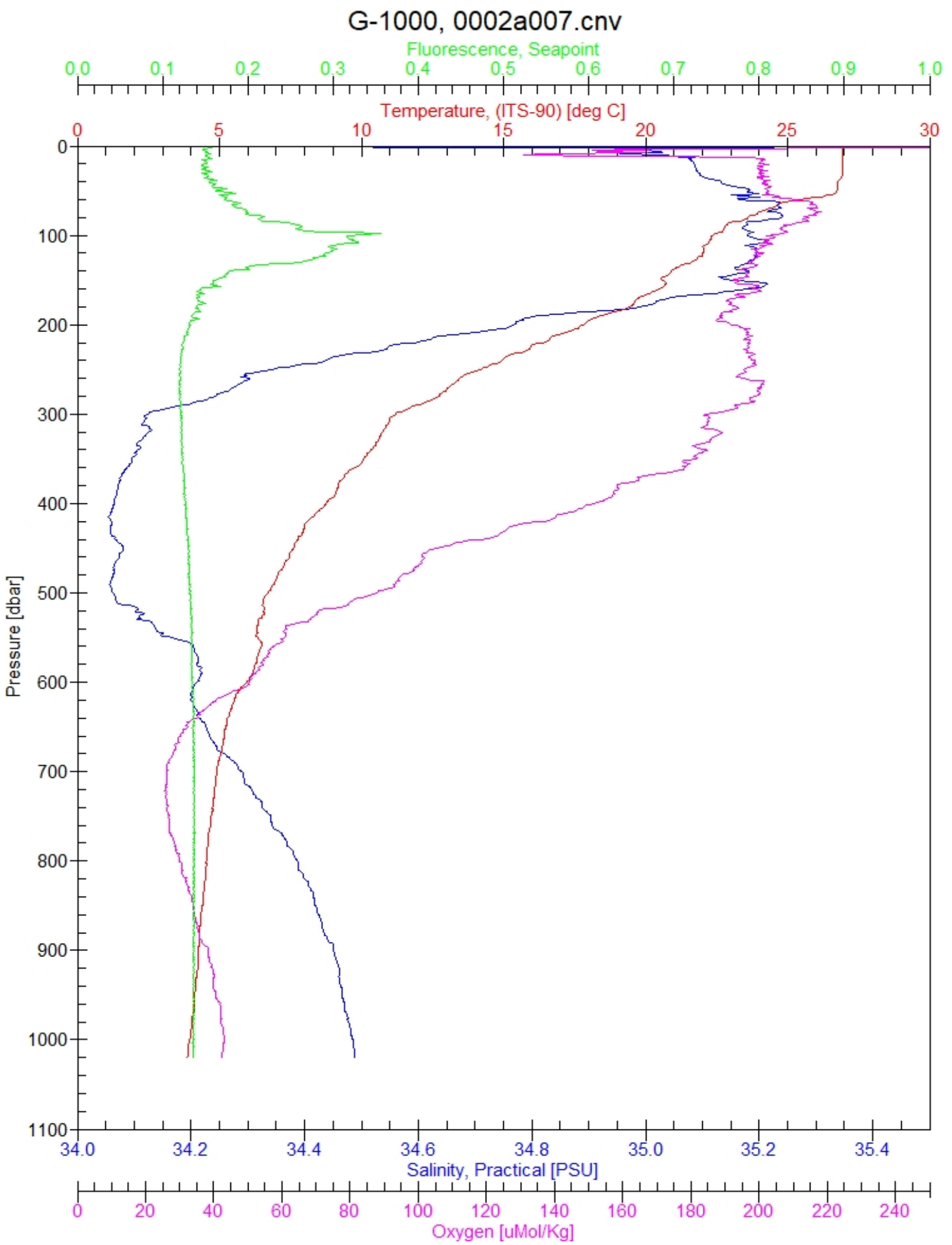

G-1000, 0002a006.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

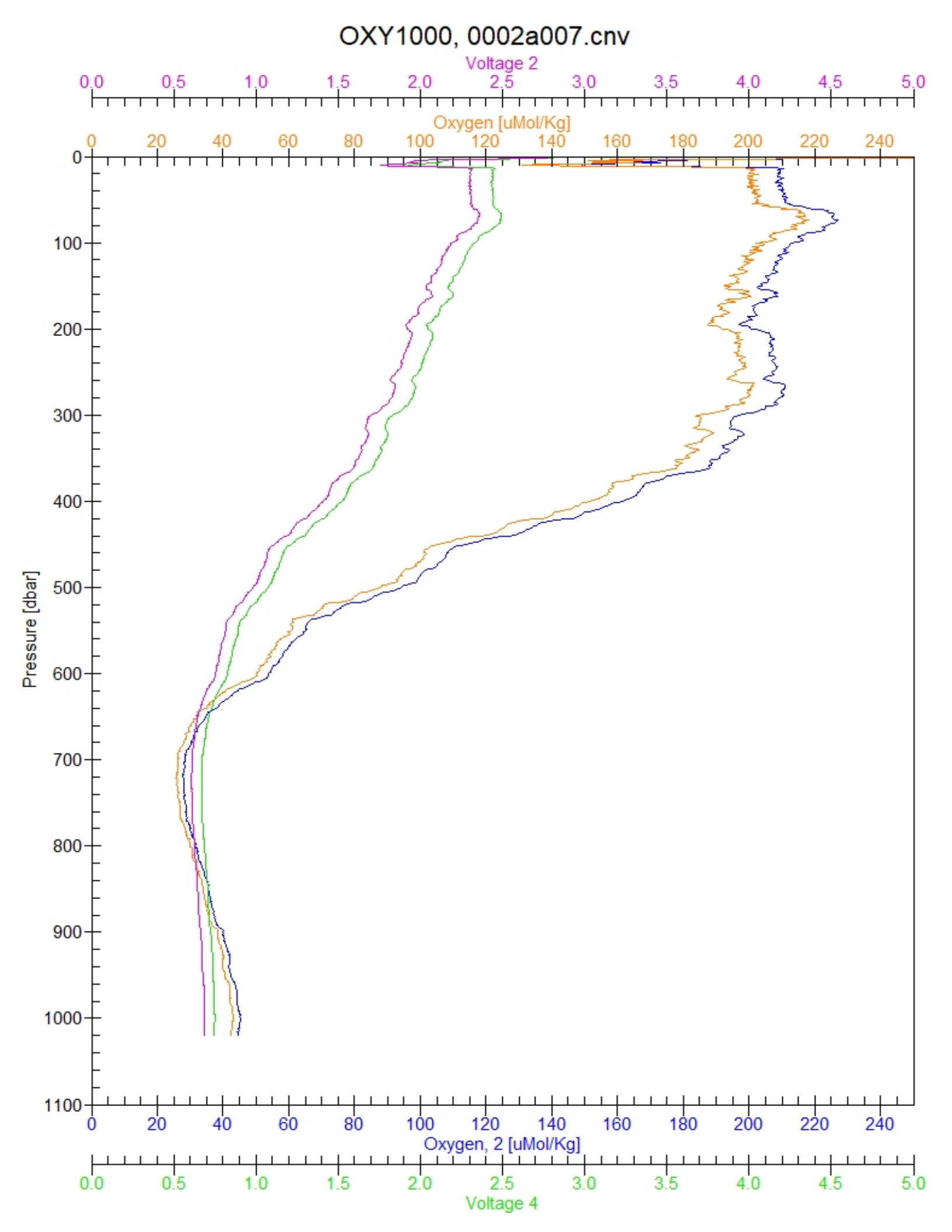

OXY1000, 0002a006.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
Voltage 4

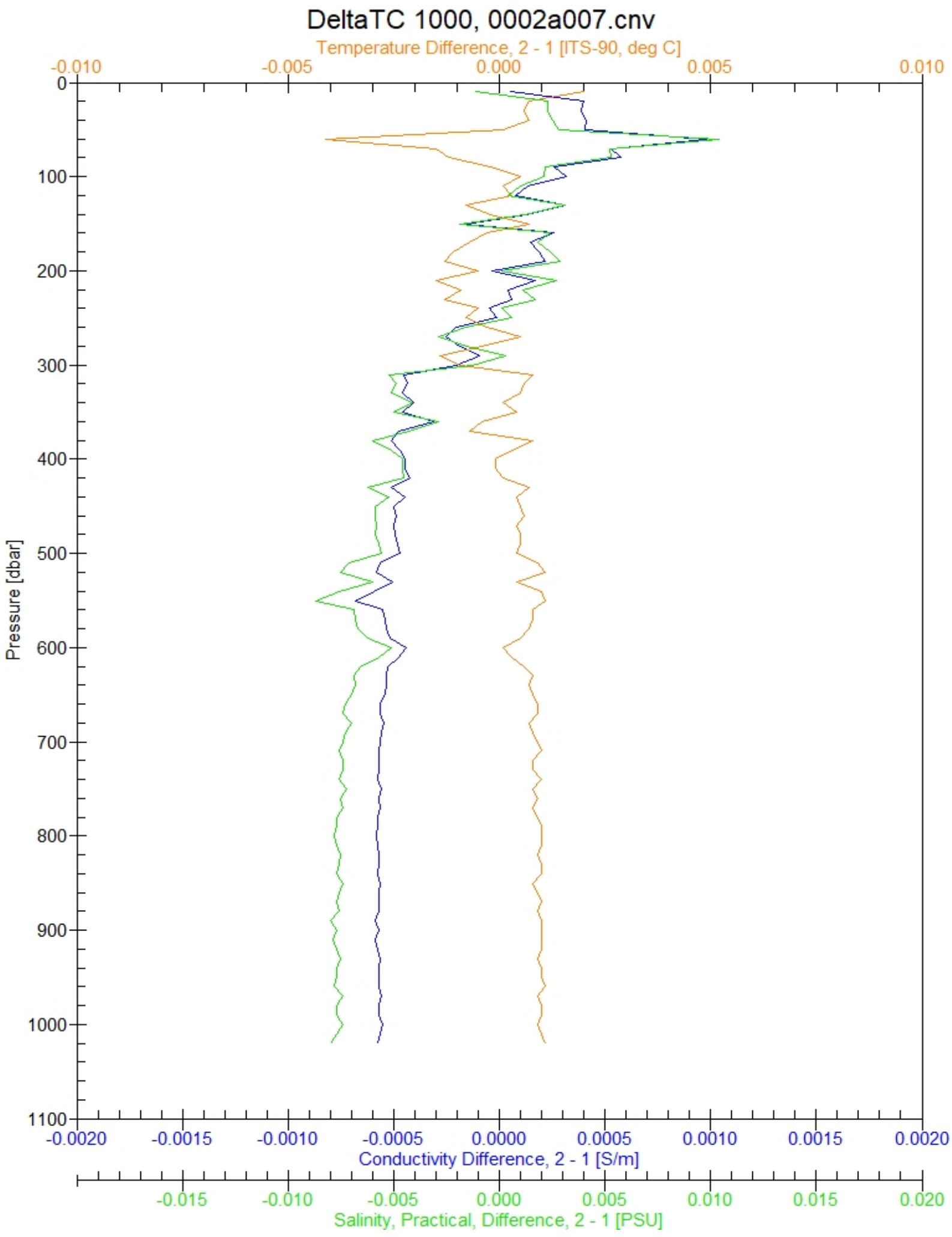

DeltaTC 1000, 0002a006.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

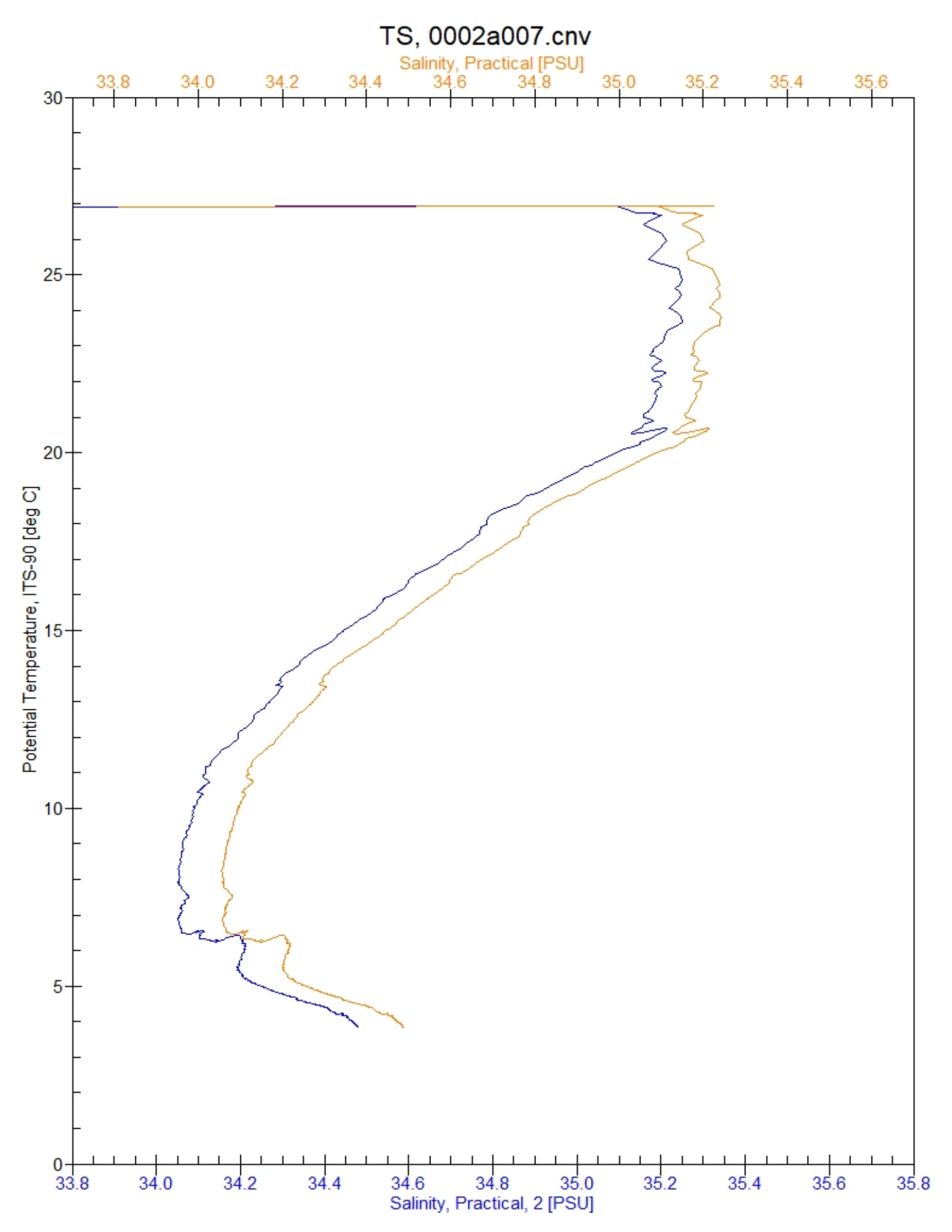

TS, 0002a006.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

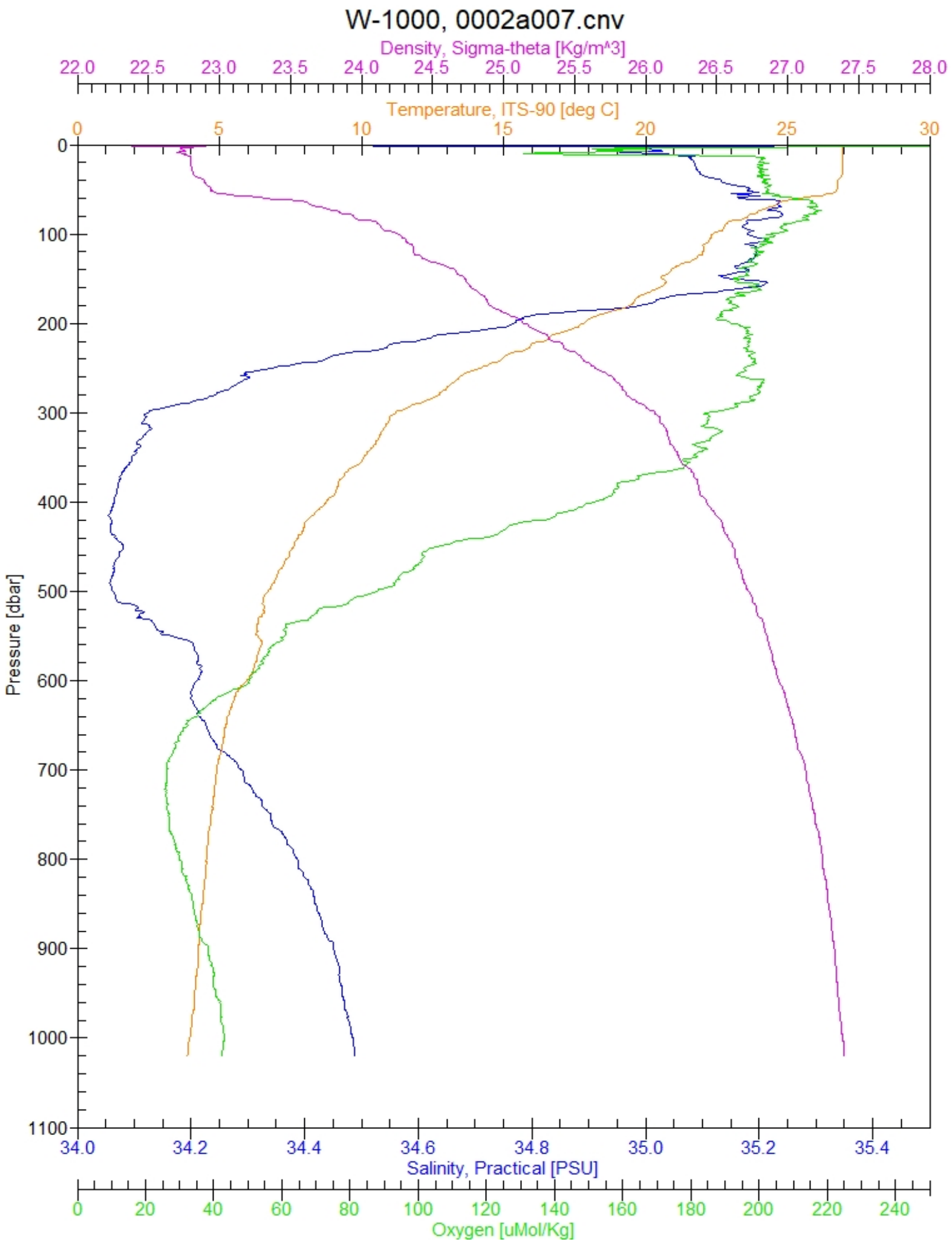

W-1000, 0002a006.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

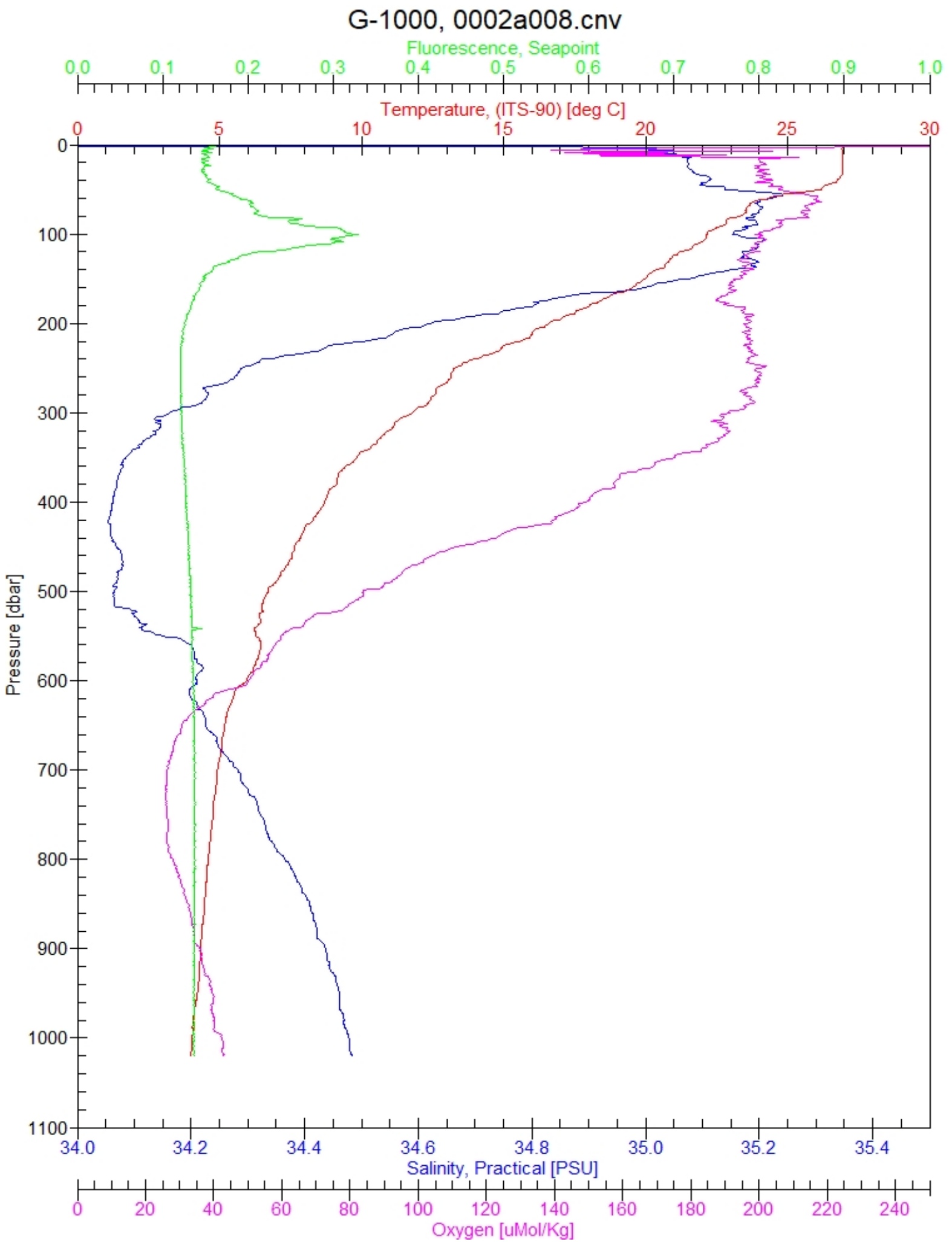

G-1000, 0002a007.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

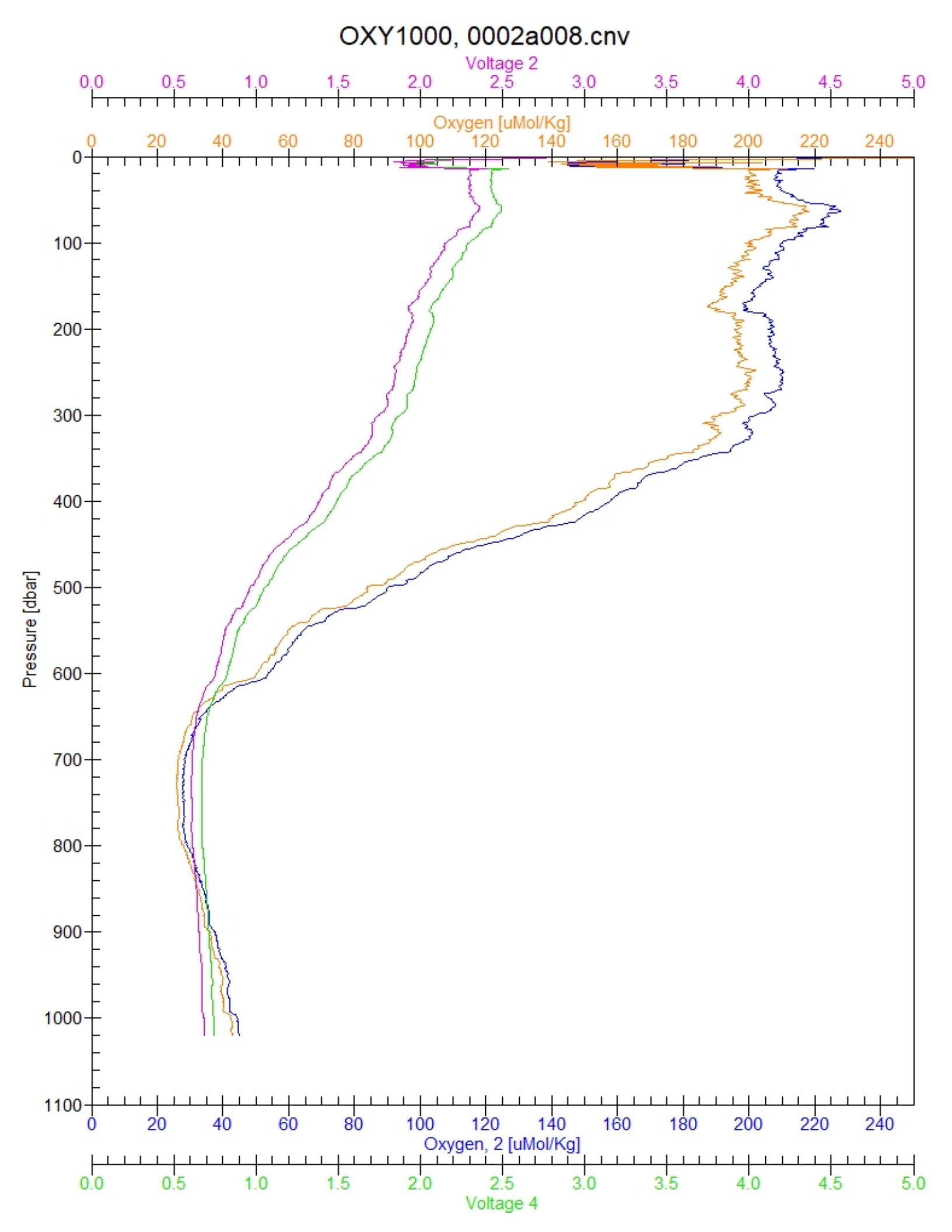

OXY1000, 0002a007.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

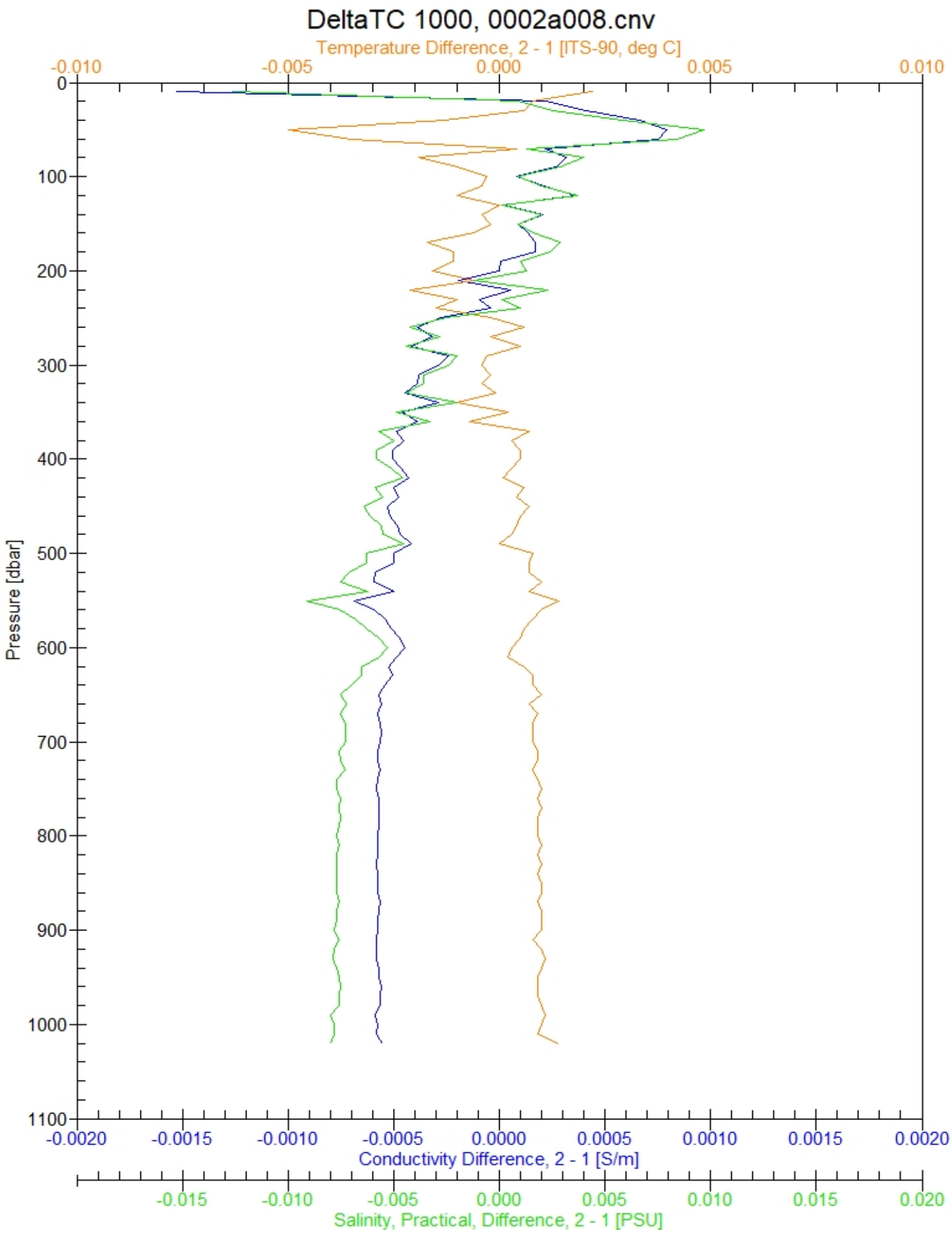

DeltaTC 1000, 0002a007.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

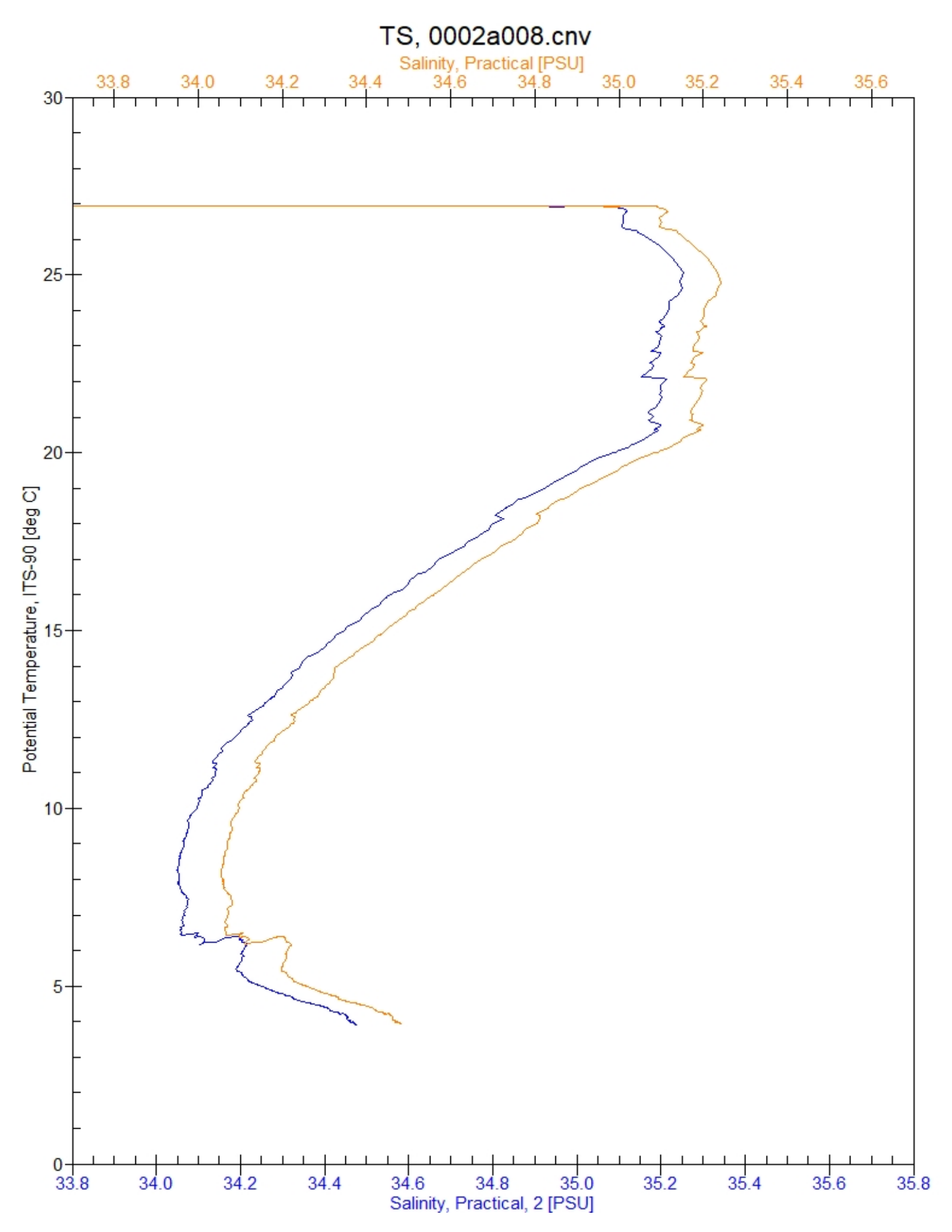

TS, 0002a007.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

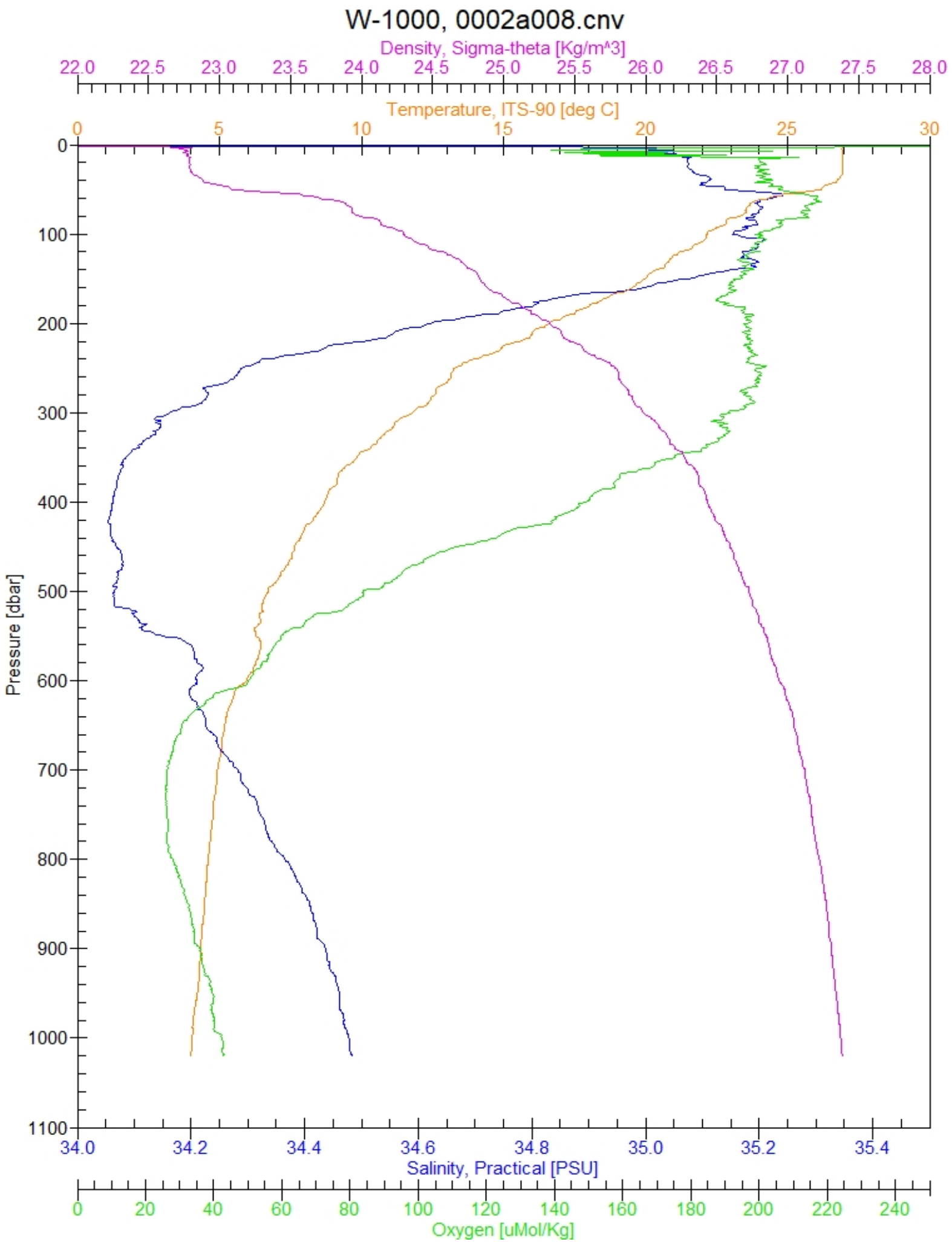

W-1000, 0002a007.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

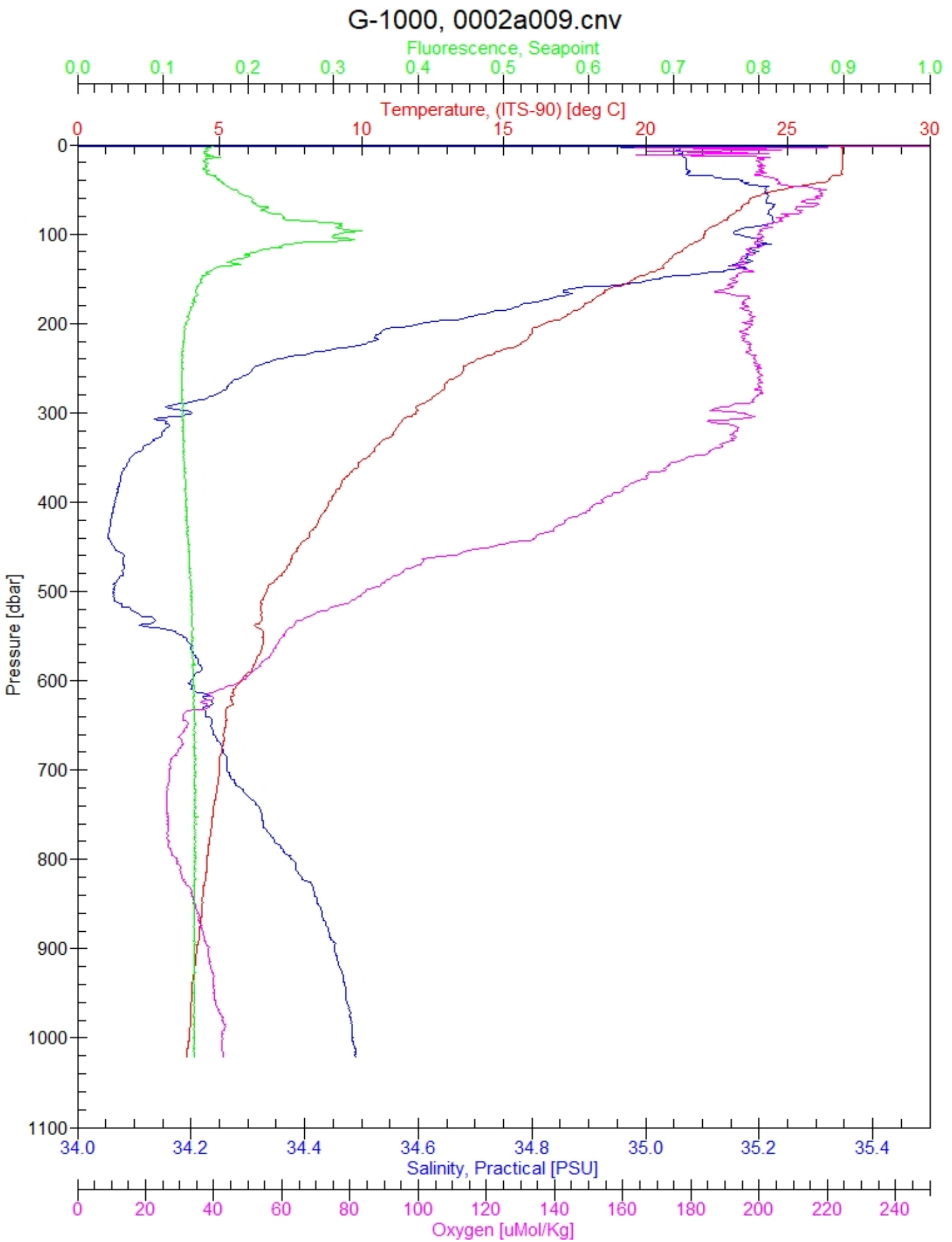

G-1000, 0002a008.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

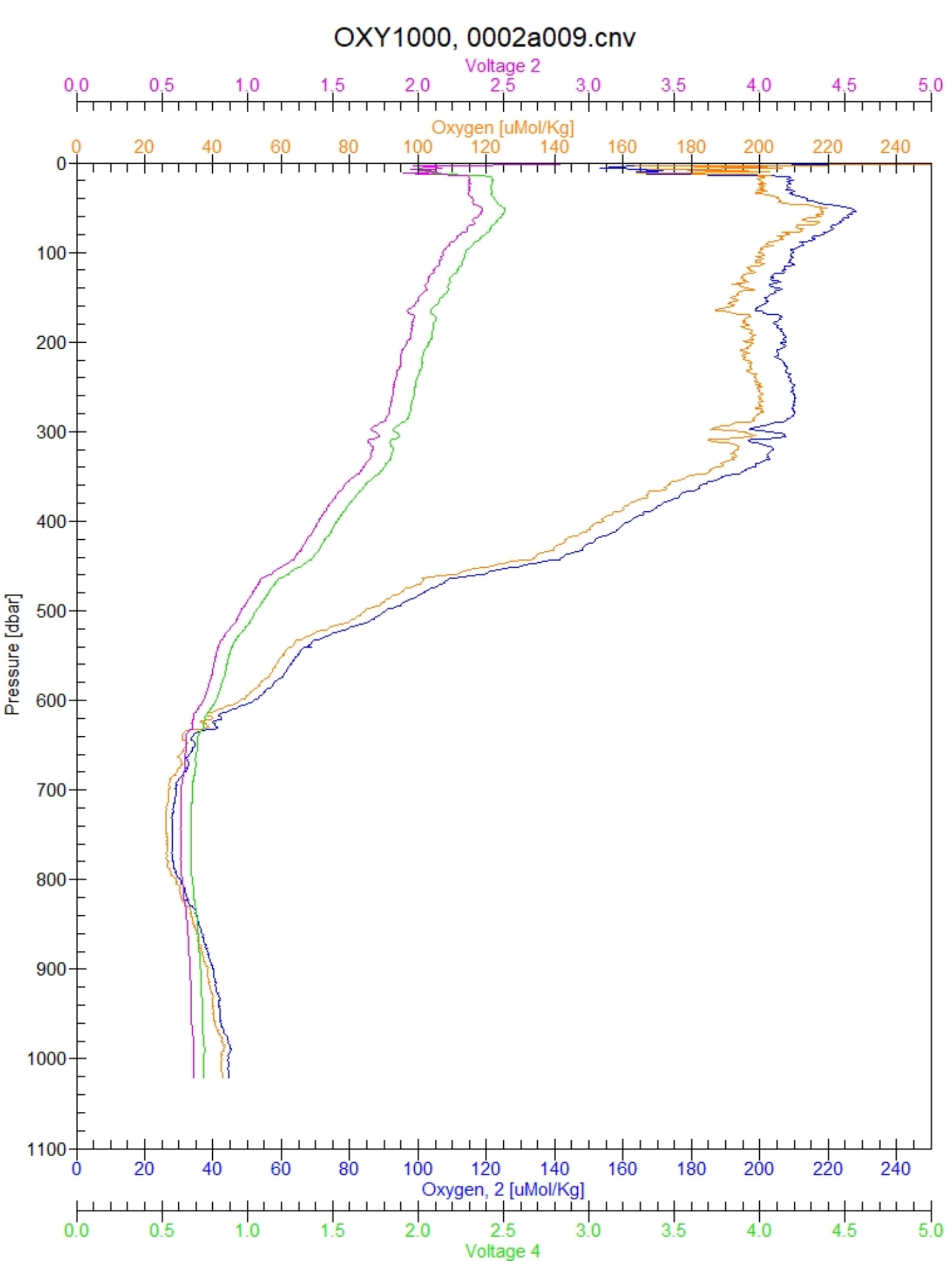

OXY1000, 0002a008.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
Voltage 4

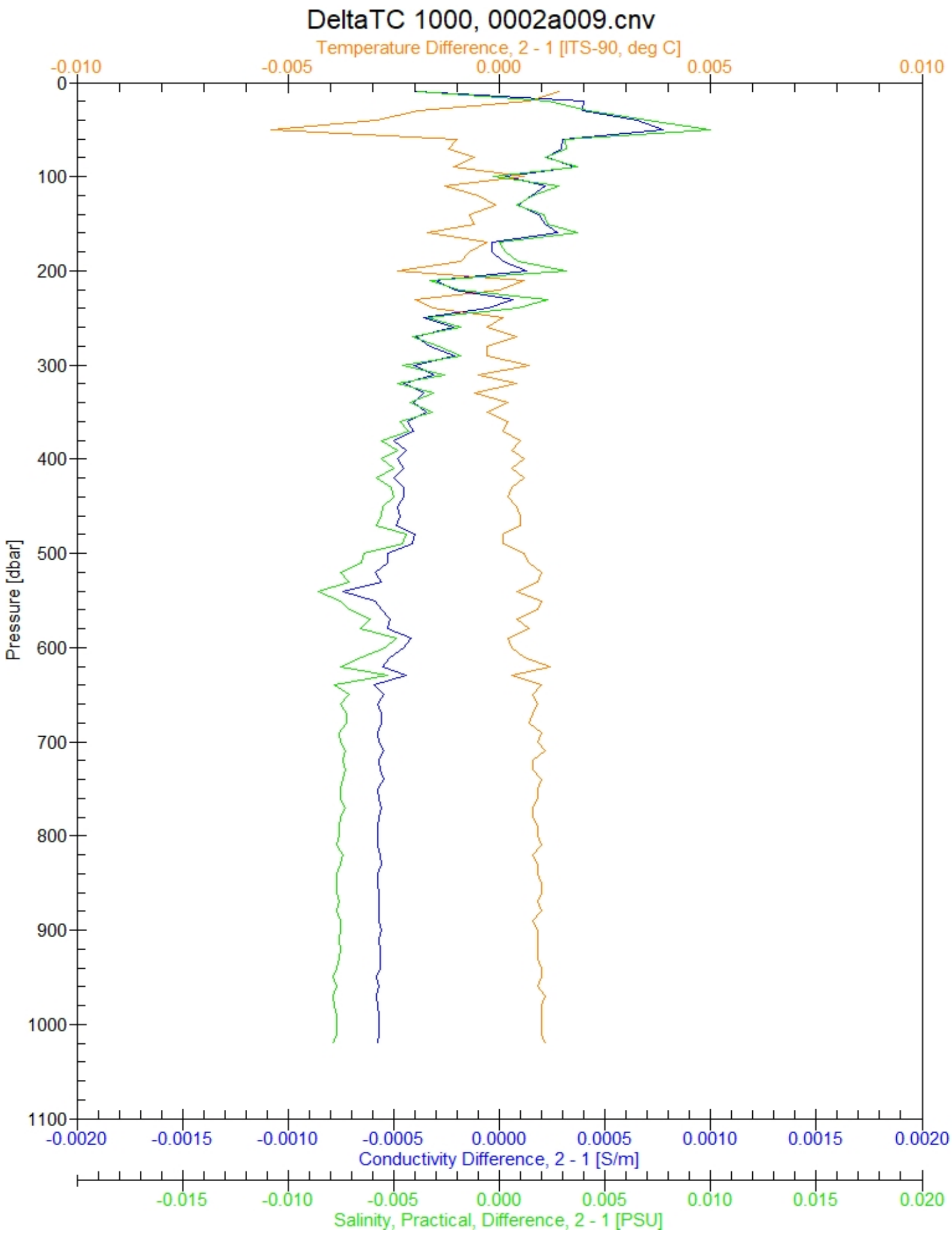

DeltaTC 1000, 0002a008.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

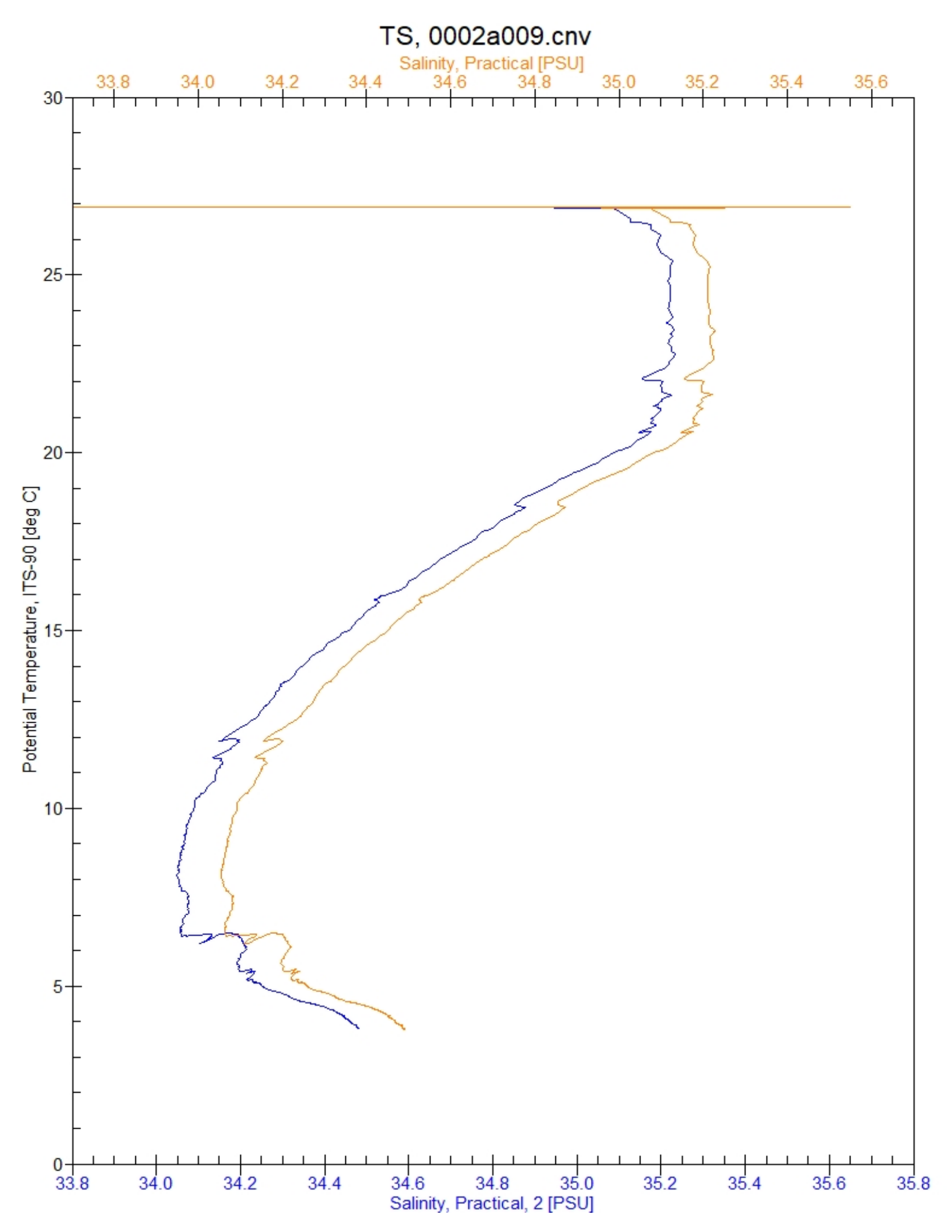

TS, 0002a008.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

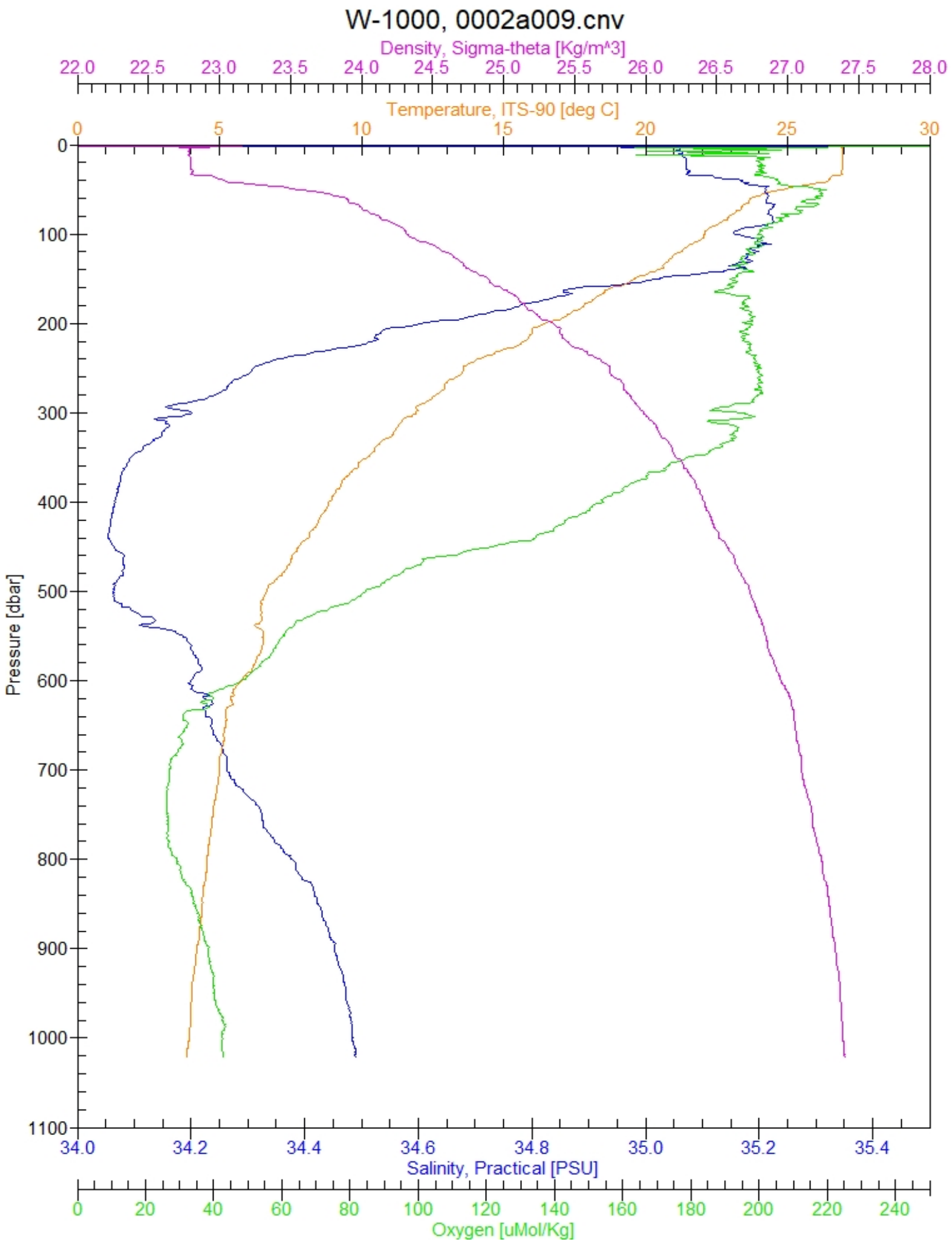

W-1000, 0002a008.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

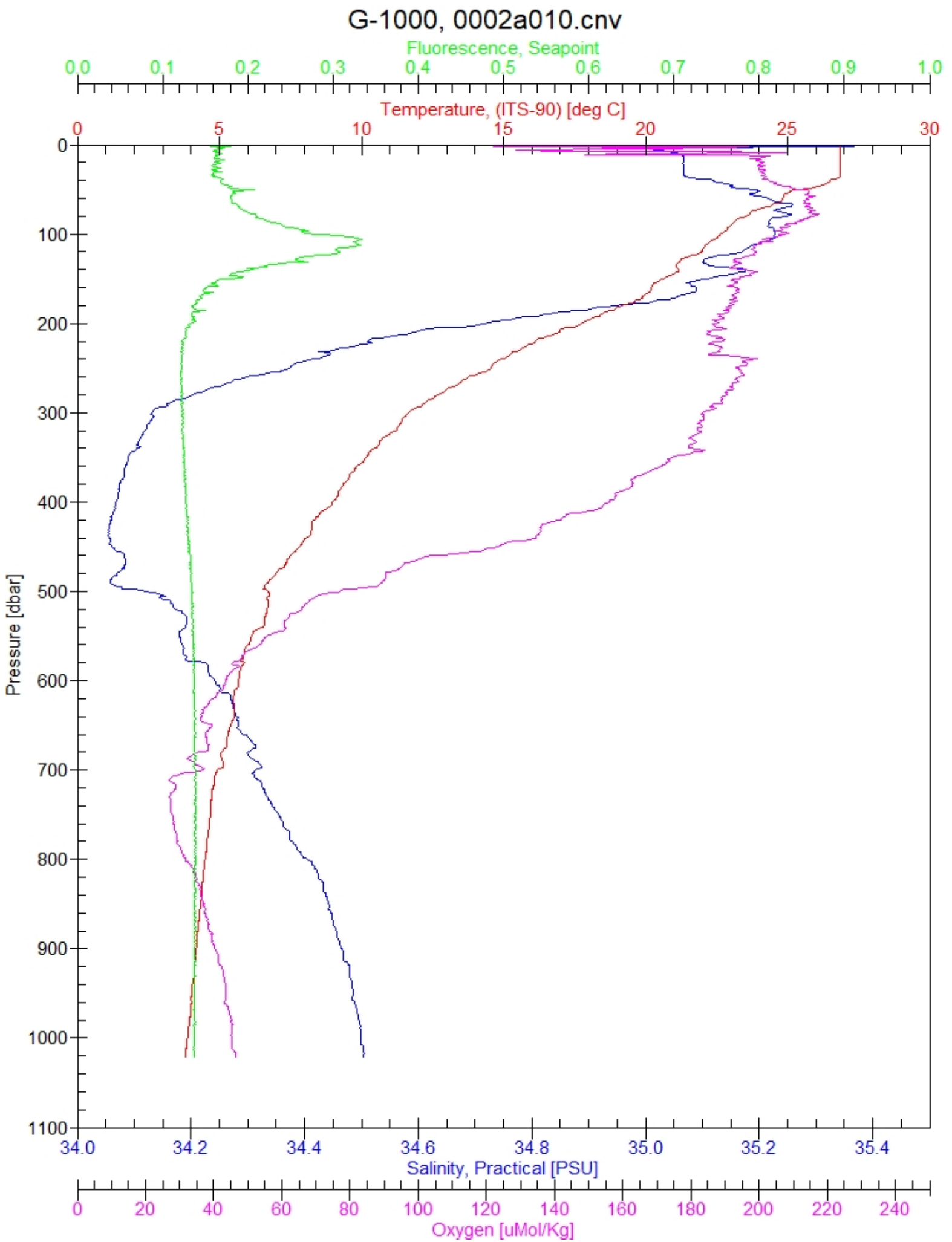

G-1000, 0002a009.cnv
Fluorescence, Seapoint
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
Temperature, (ITS-90) [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

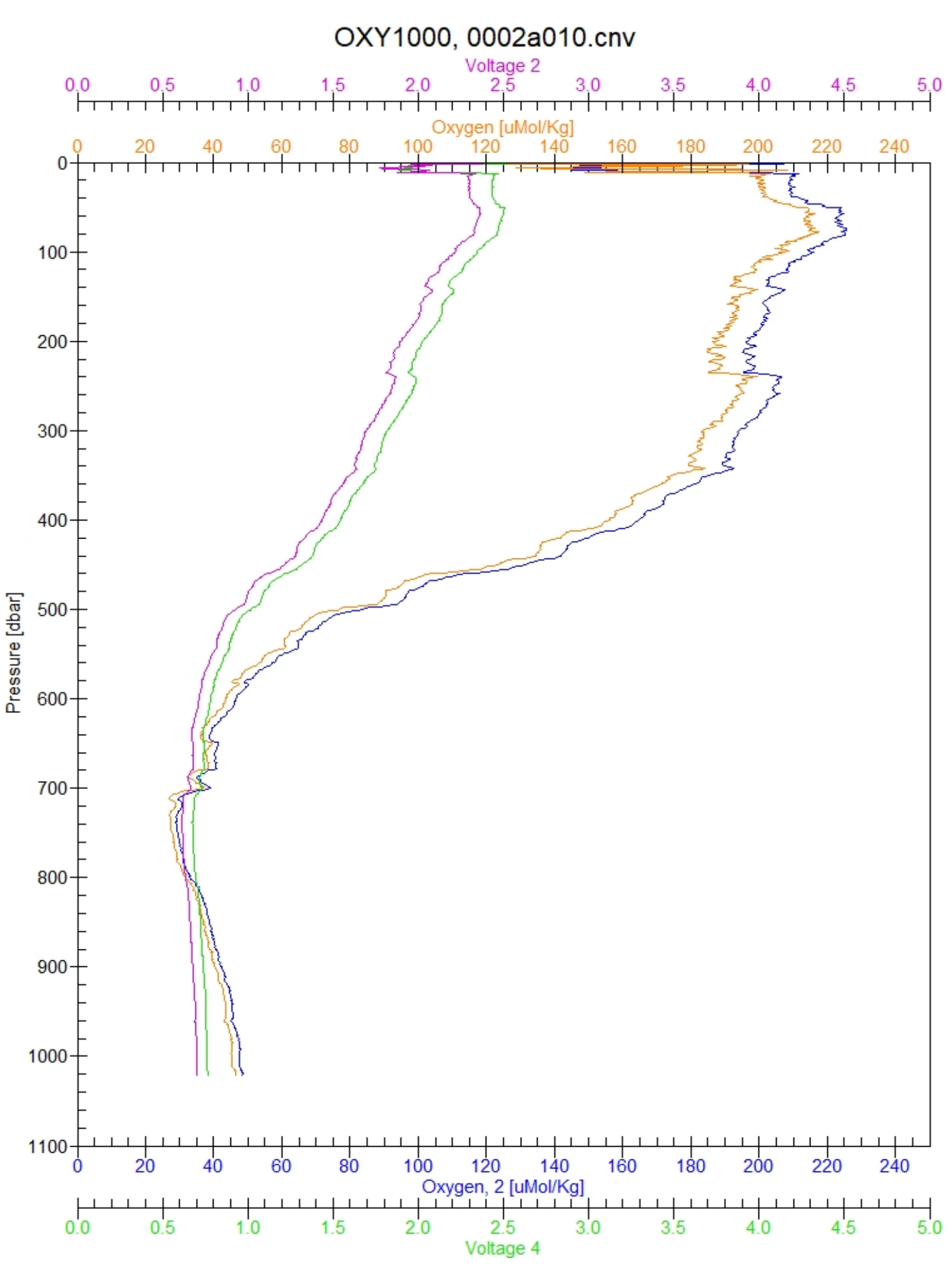

OXY1000, 0002a009.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

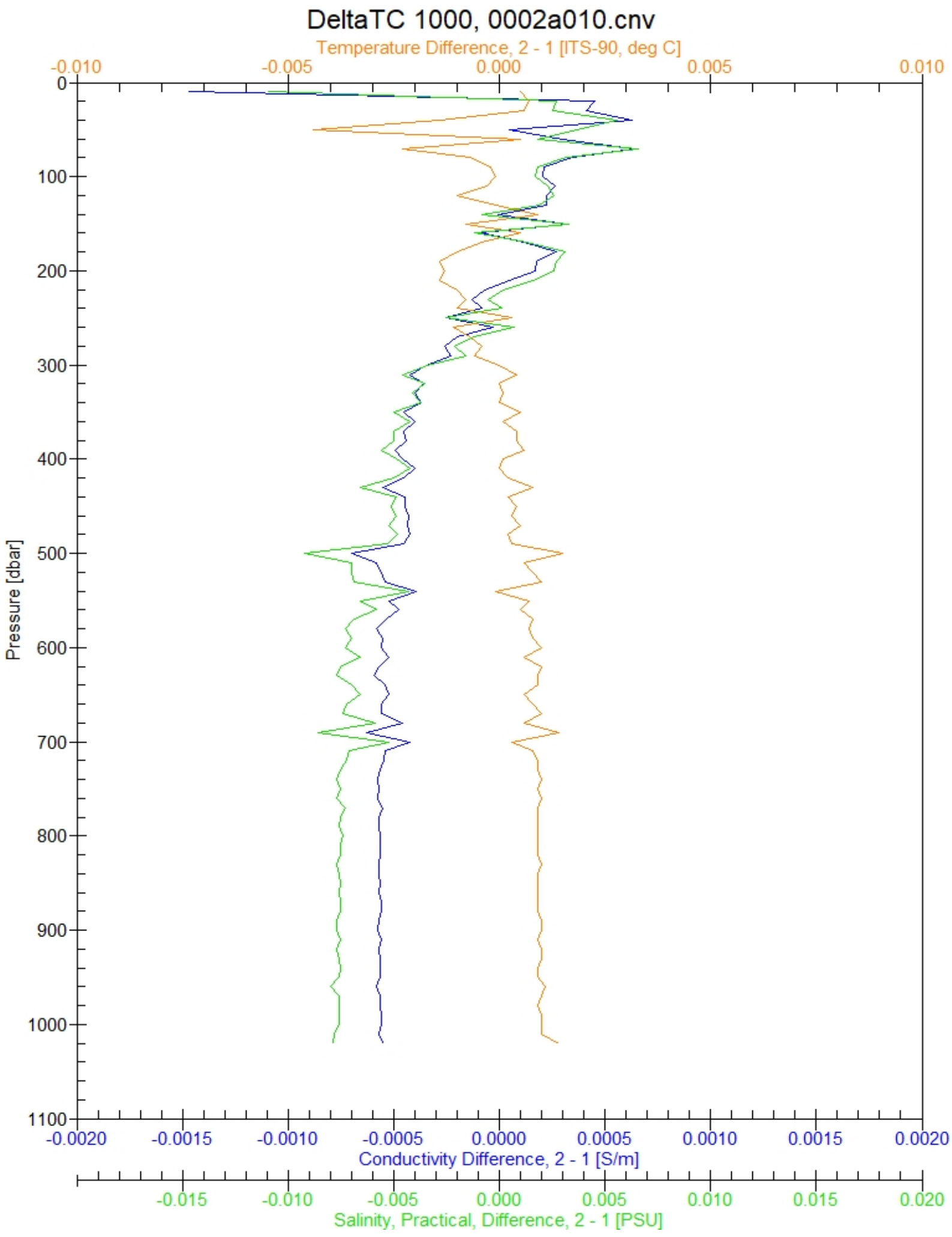

DeltaTC 1000, 0002a009.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

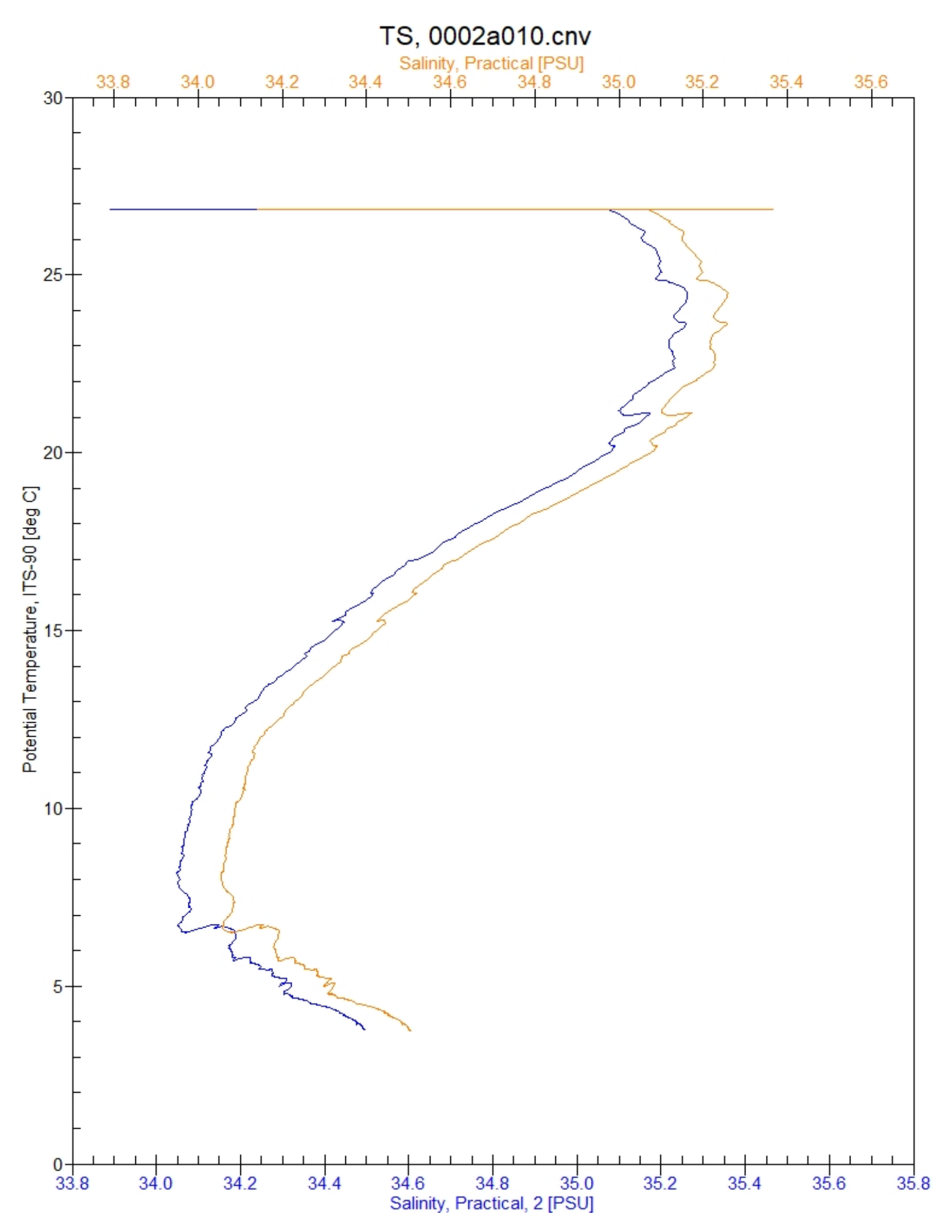

TS, 0002a009.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

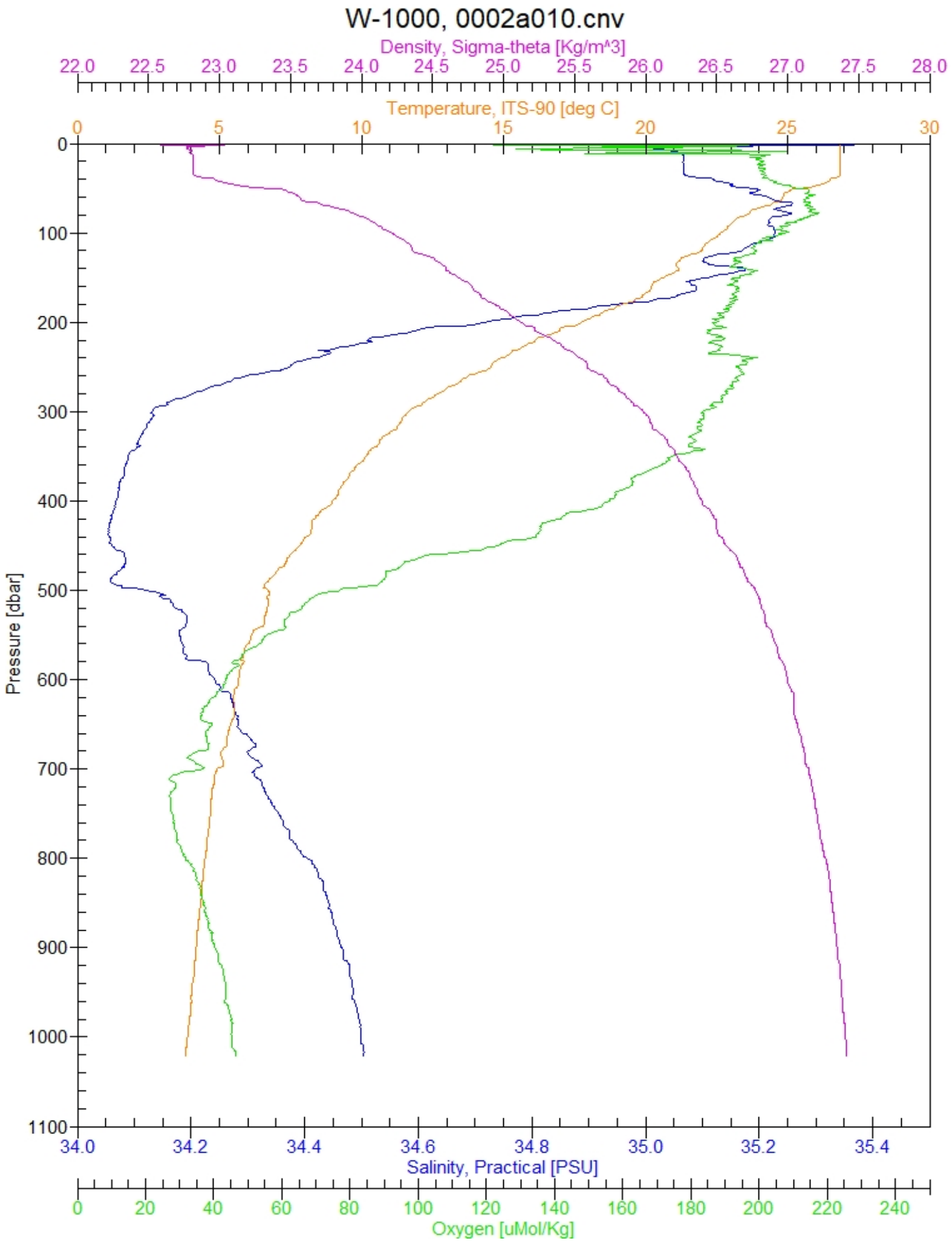

W-1000, 0002a009.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

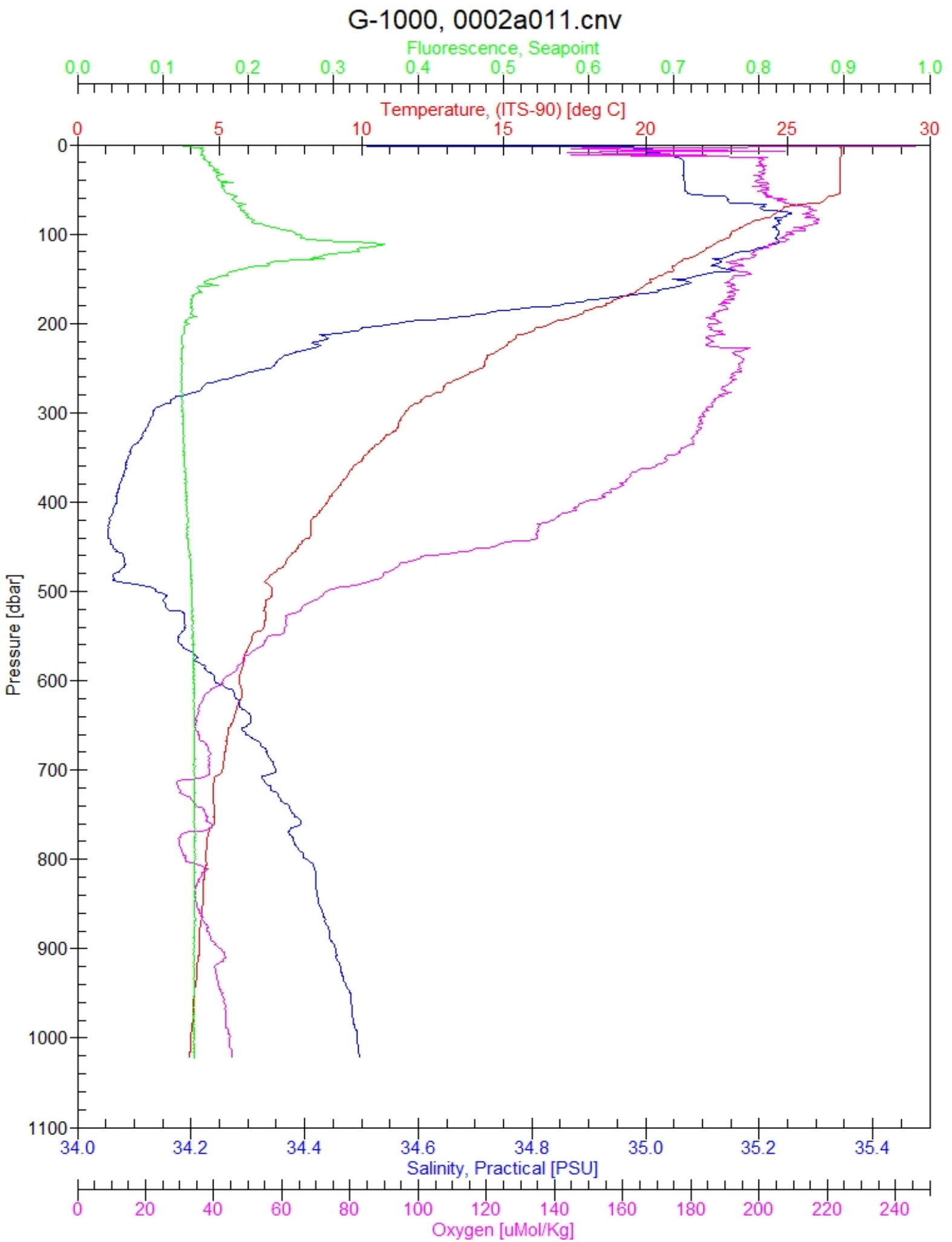

G-1000, 0002a010.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

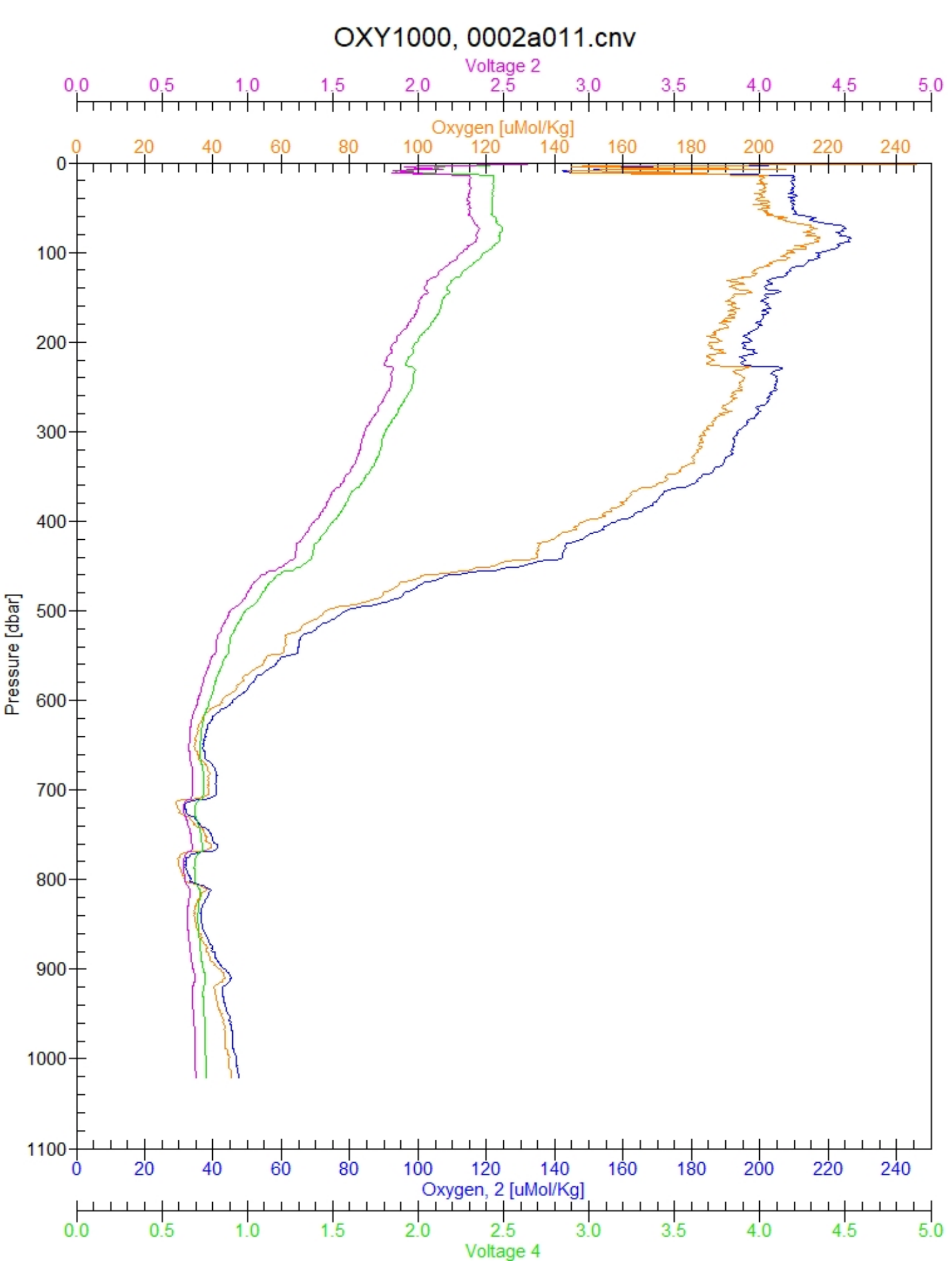

OXY1000, 0002a010.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

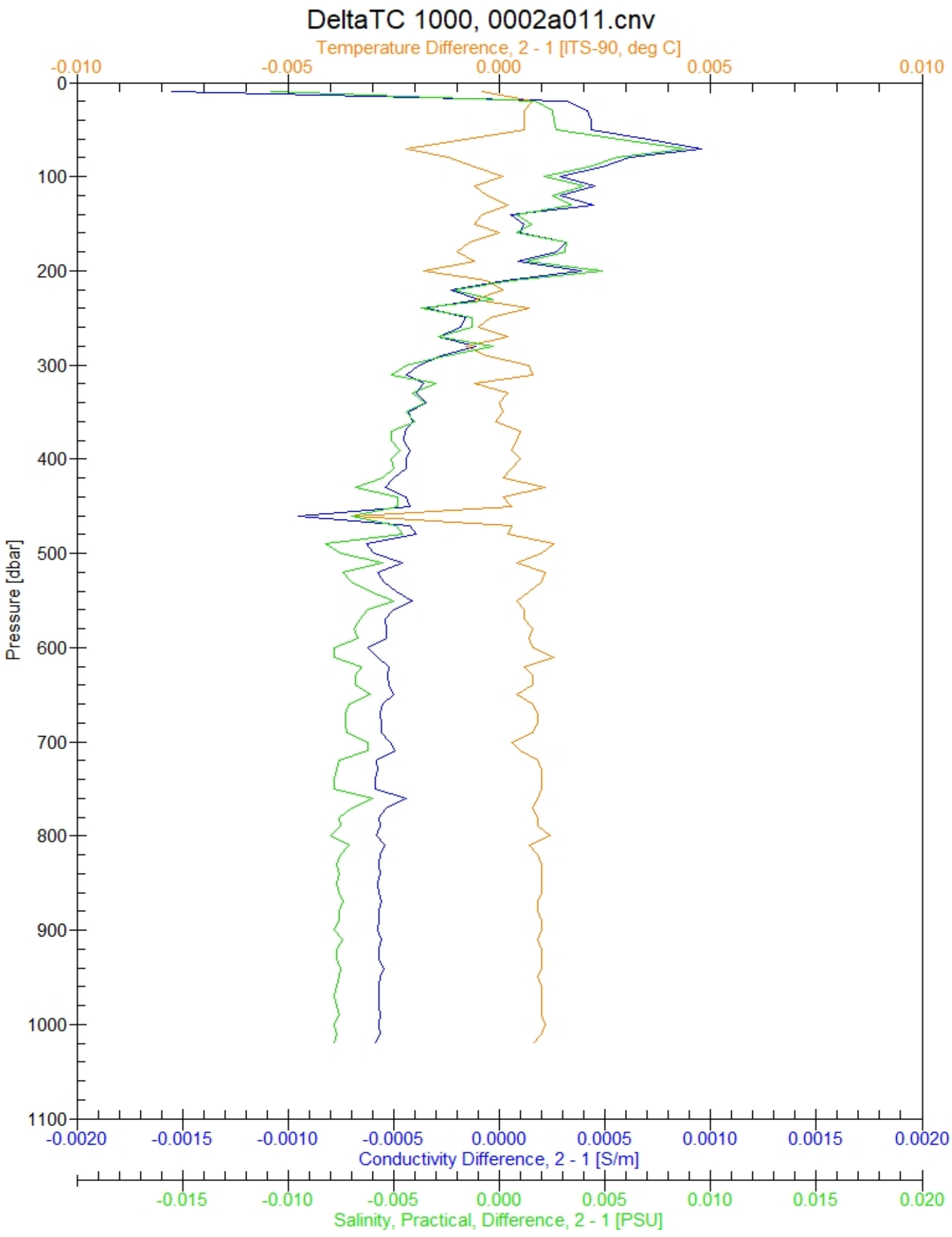

DeltaTC 1000, 0002a010.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

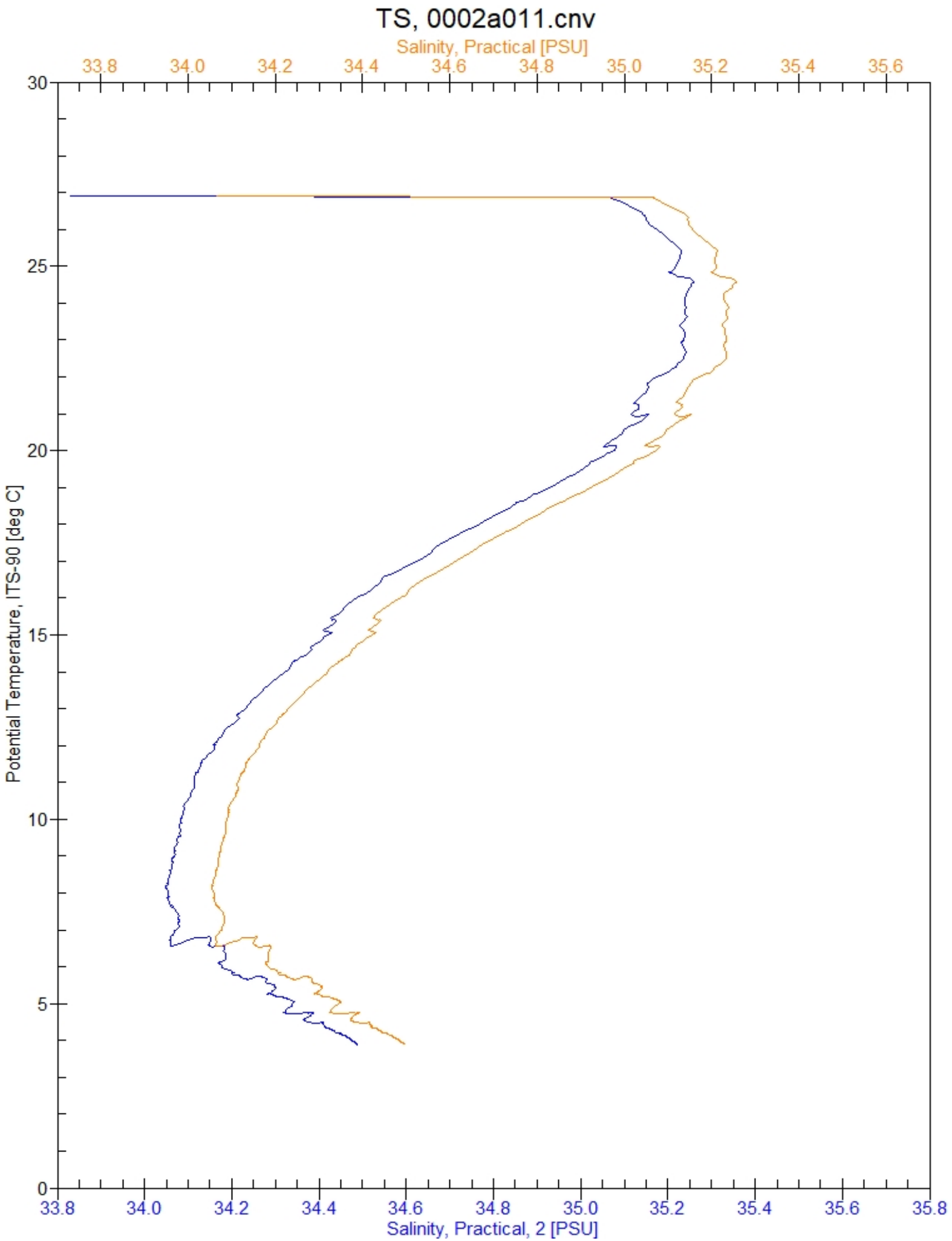

TS, 0002a010.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

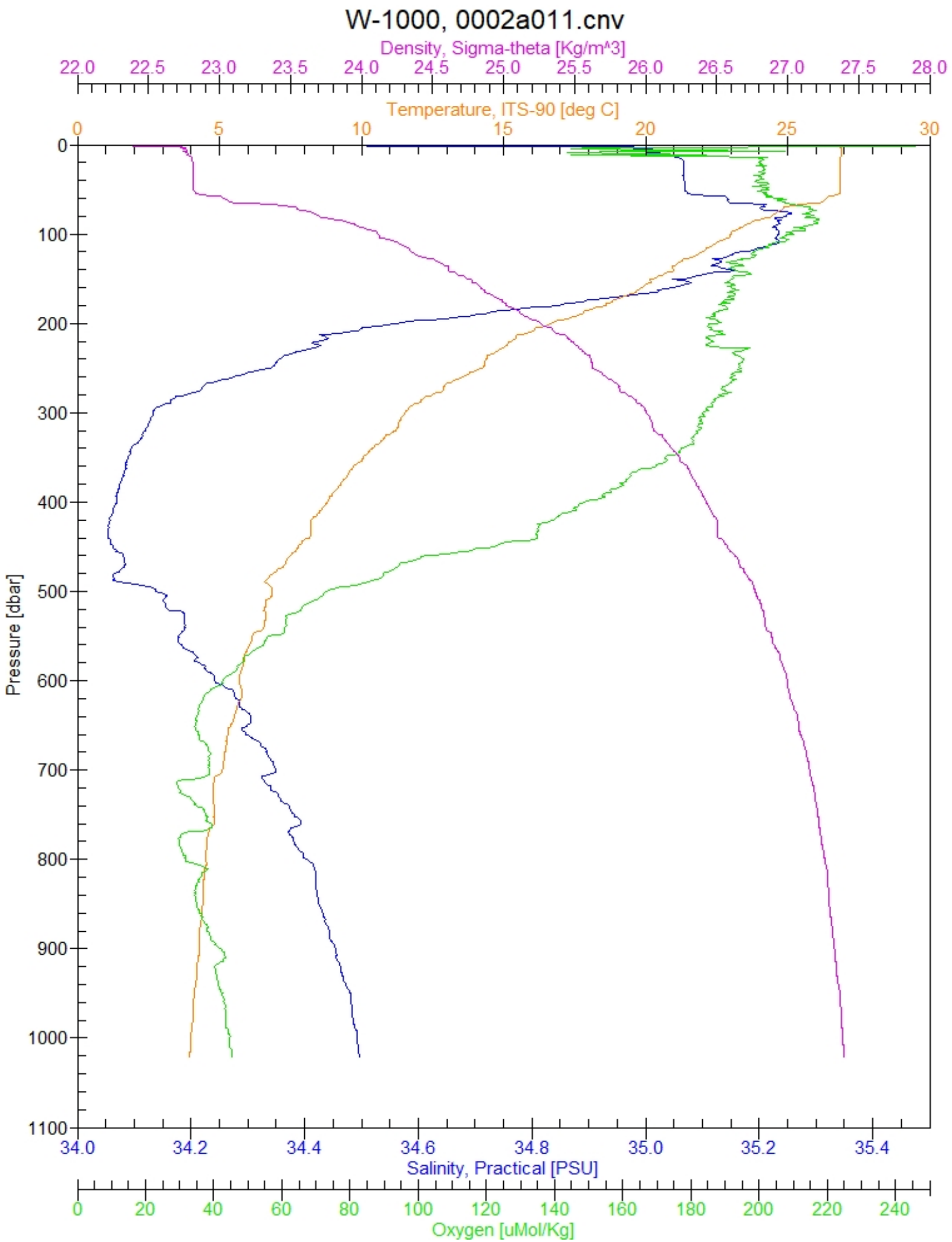

W-1000, 0002a010.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

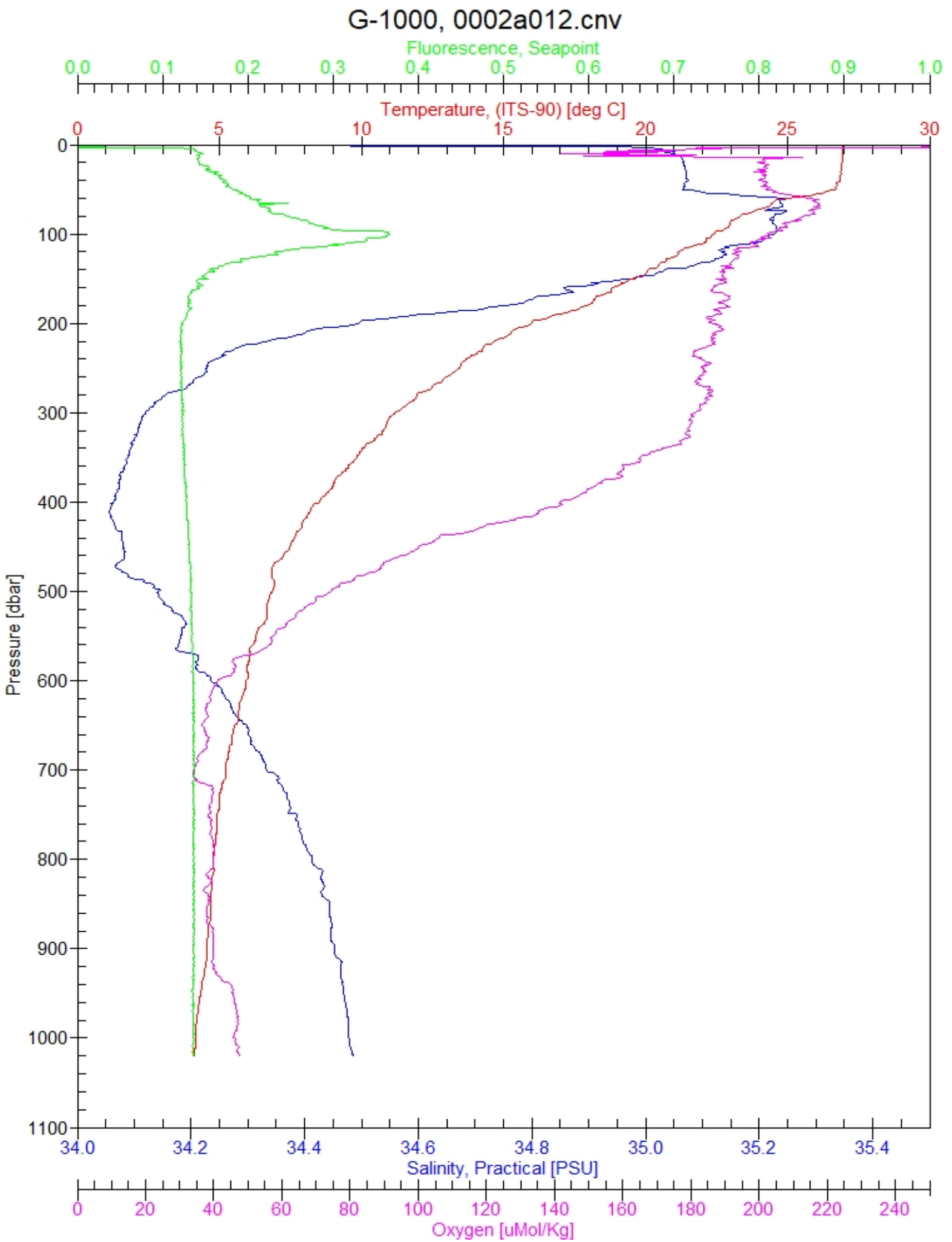

G-1000, 0002a011.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

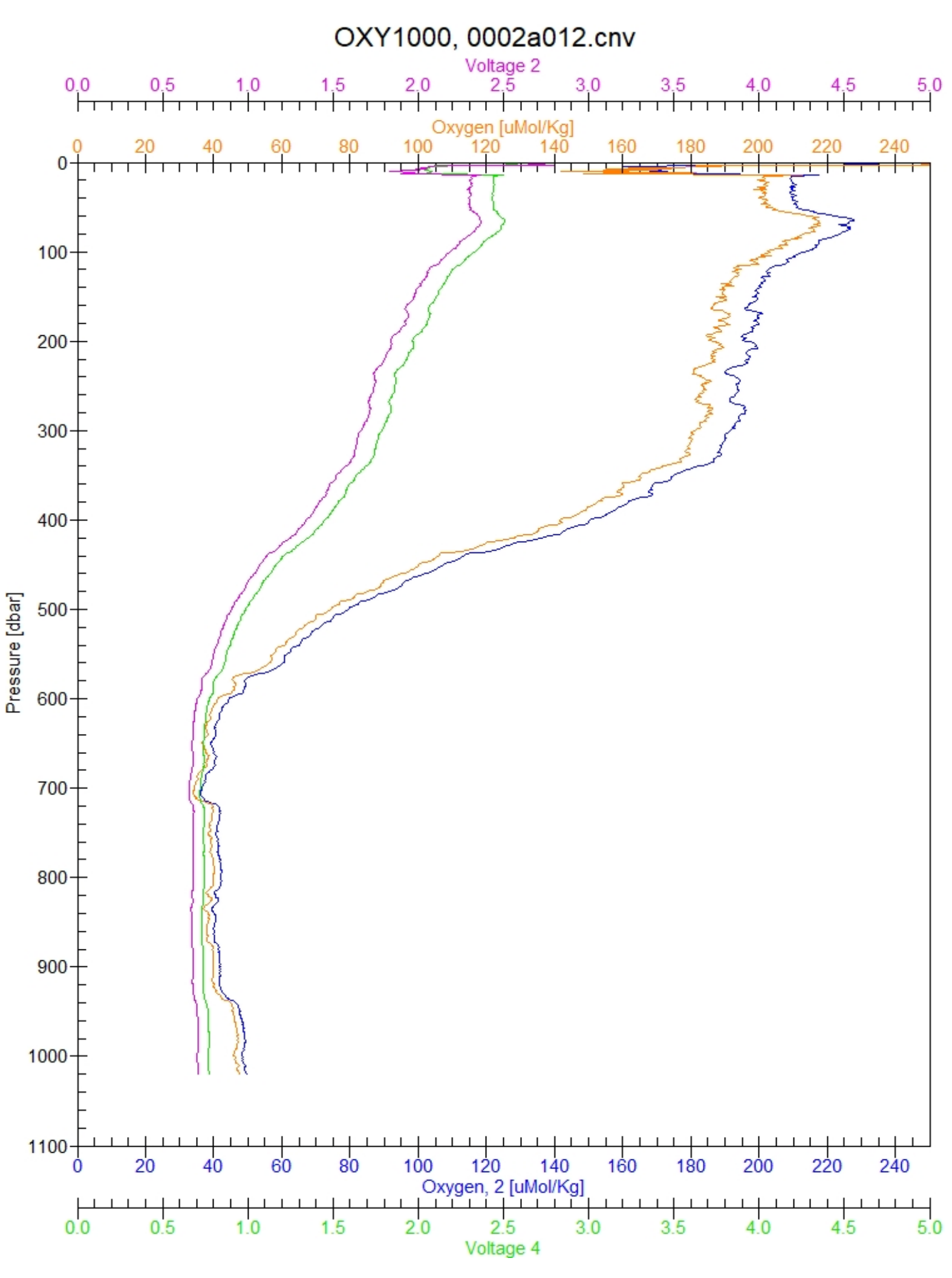

OXY1000, 0002a011.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

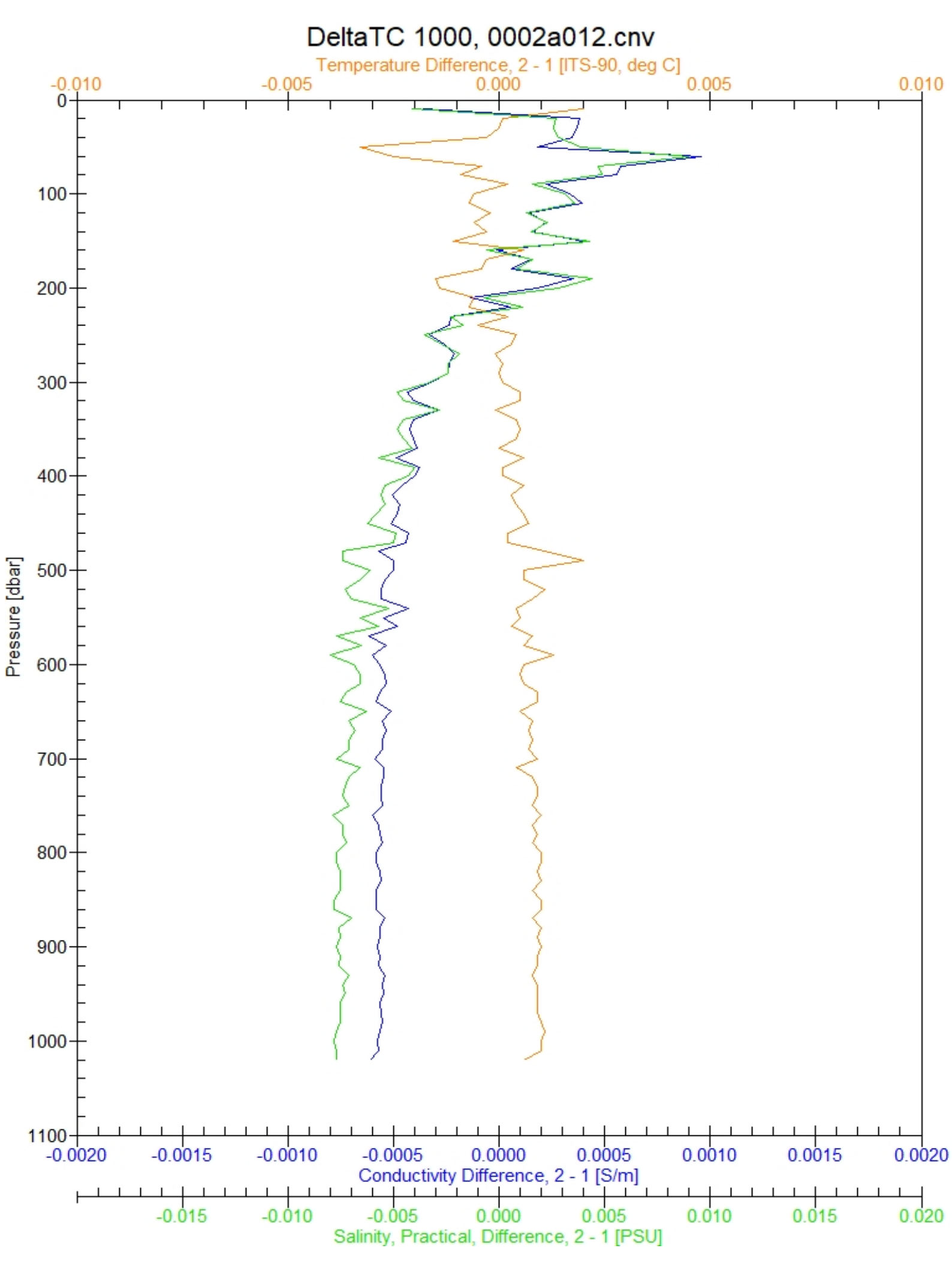

DeltaTC 1000, 0002a011.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

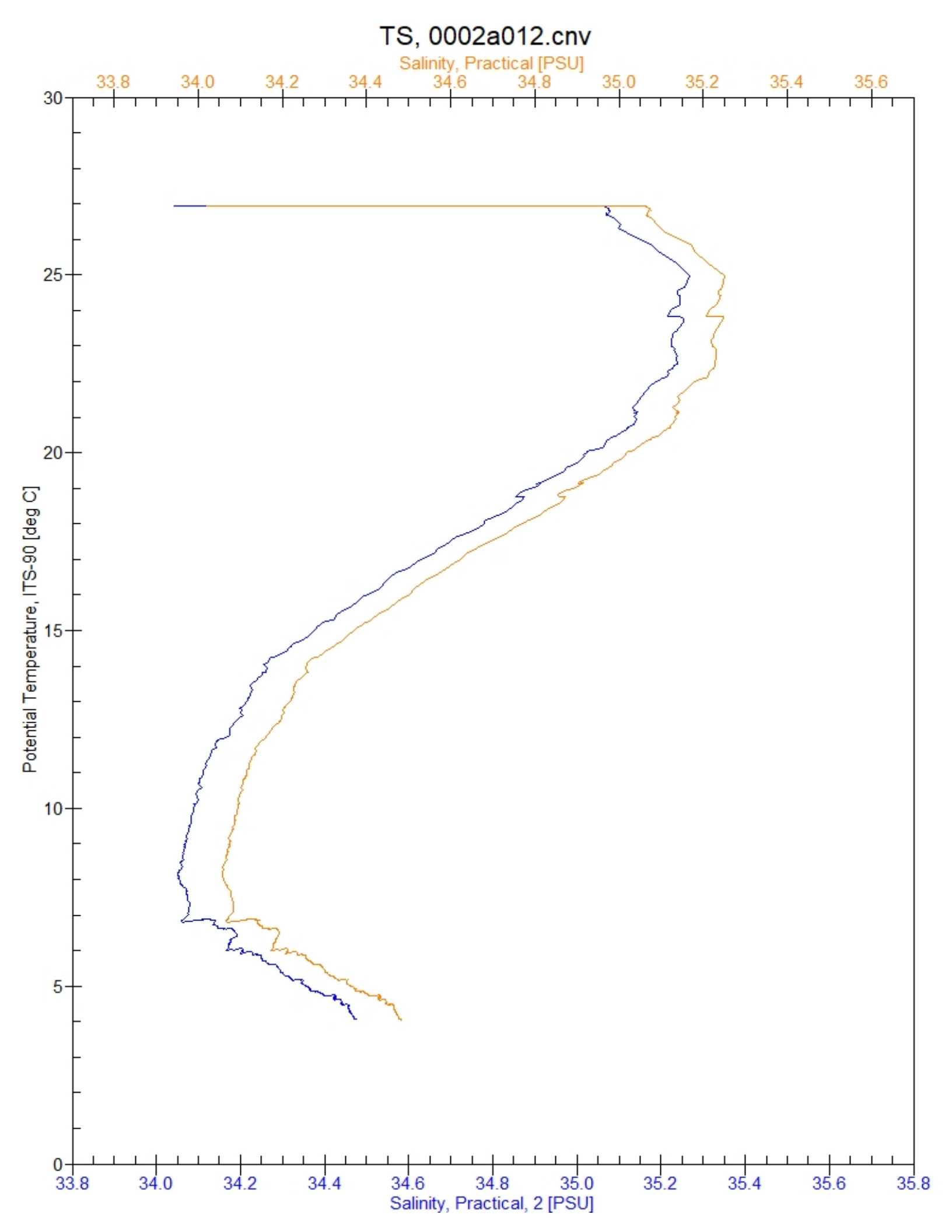

TS, 0002a011.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

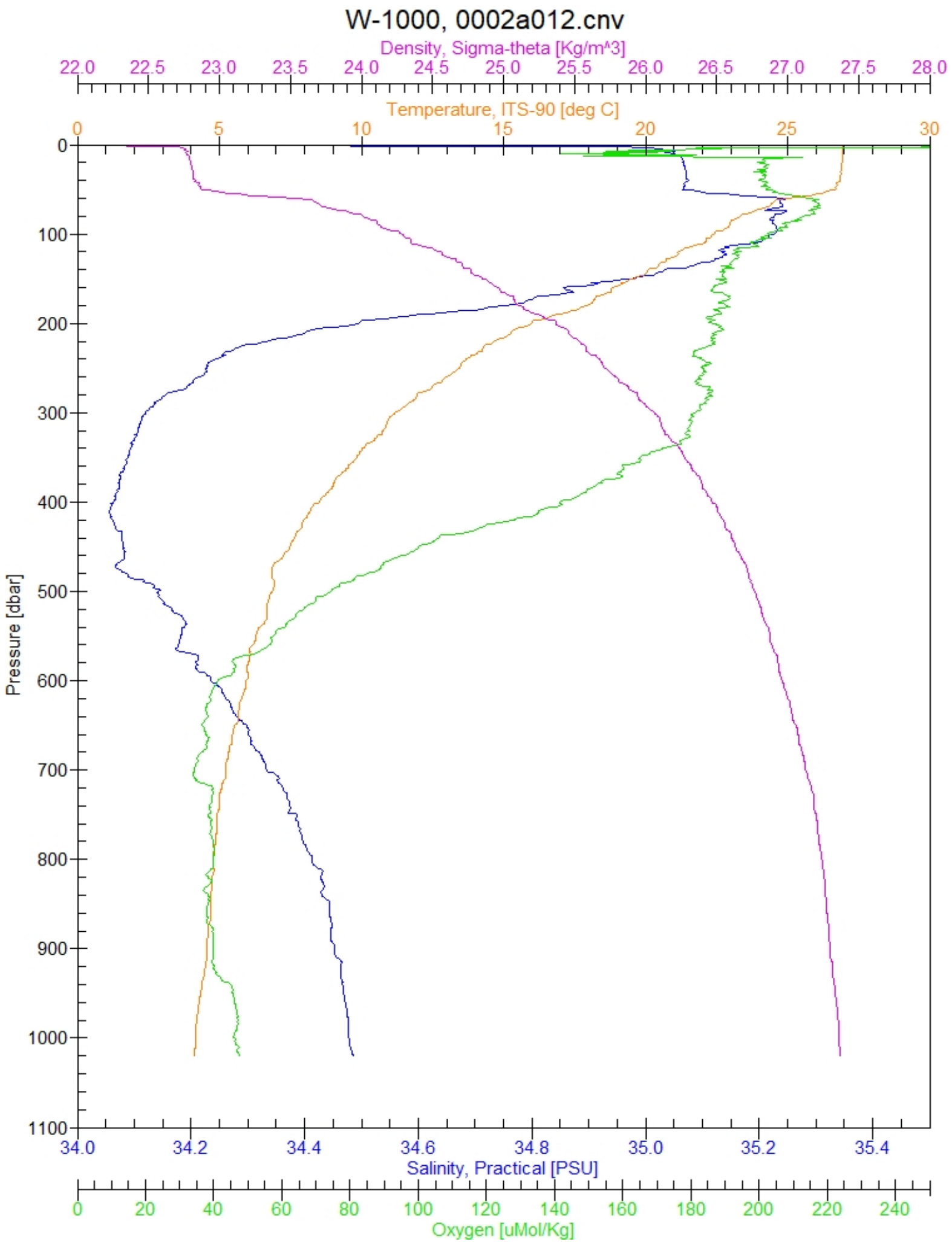

W-1000, 0002a011.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

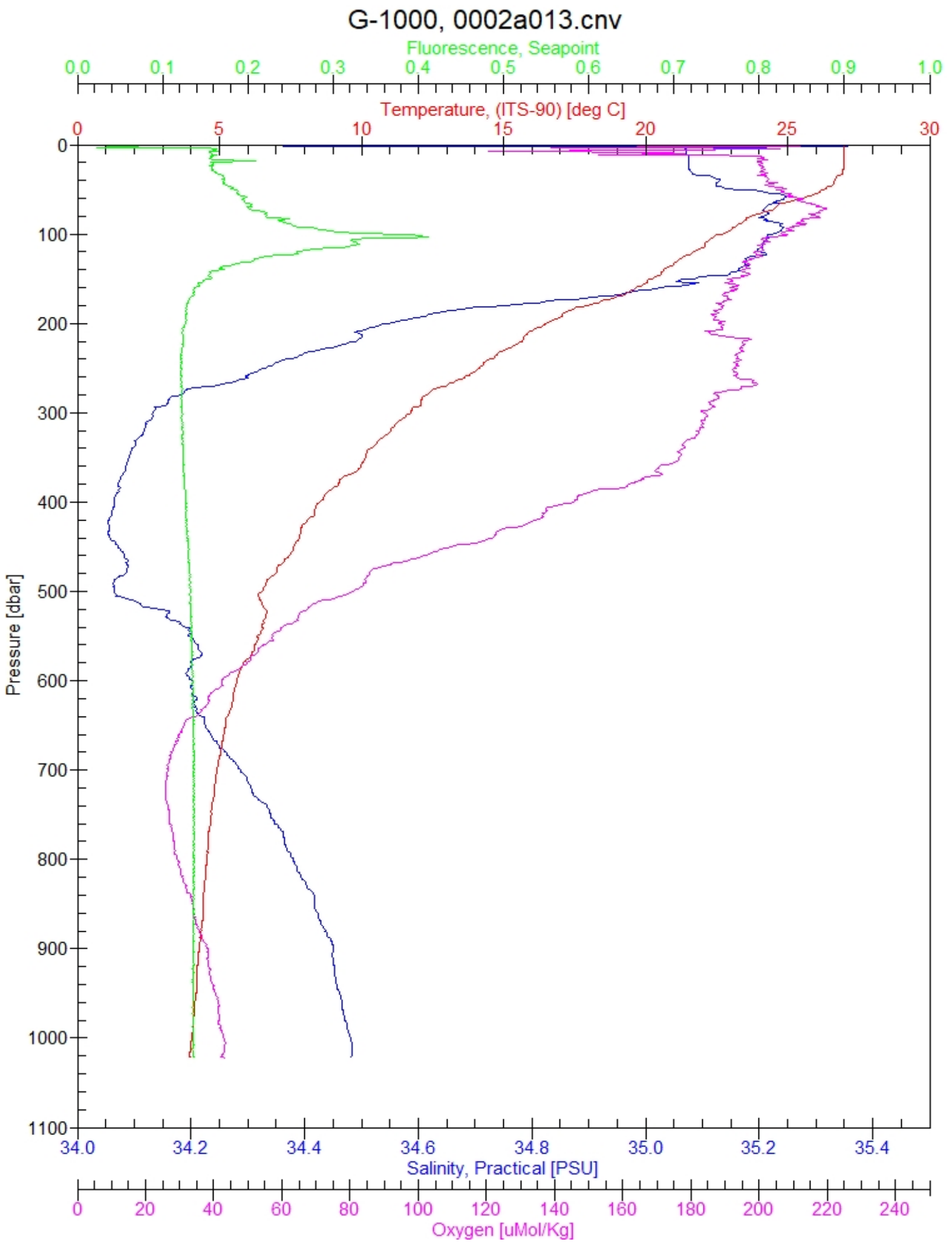

G-1000, 0002a012.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

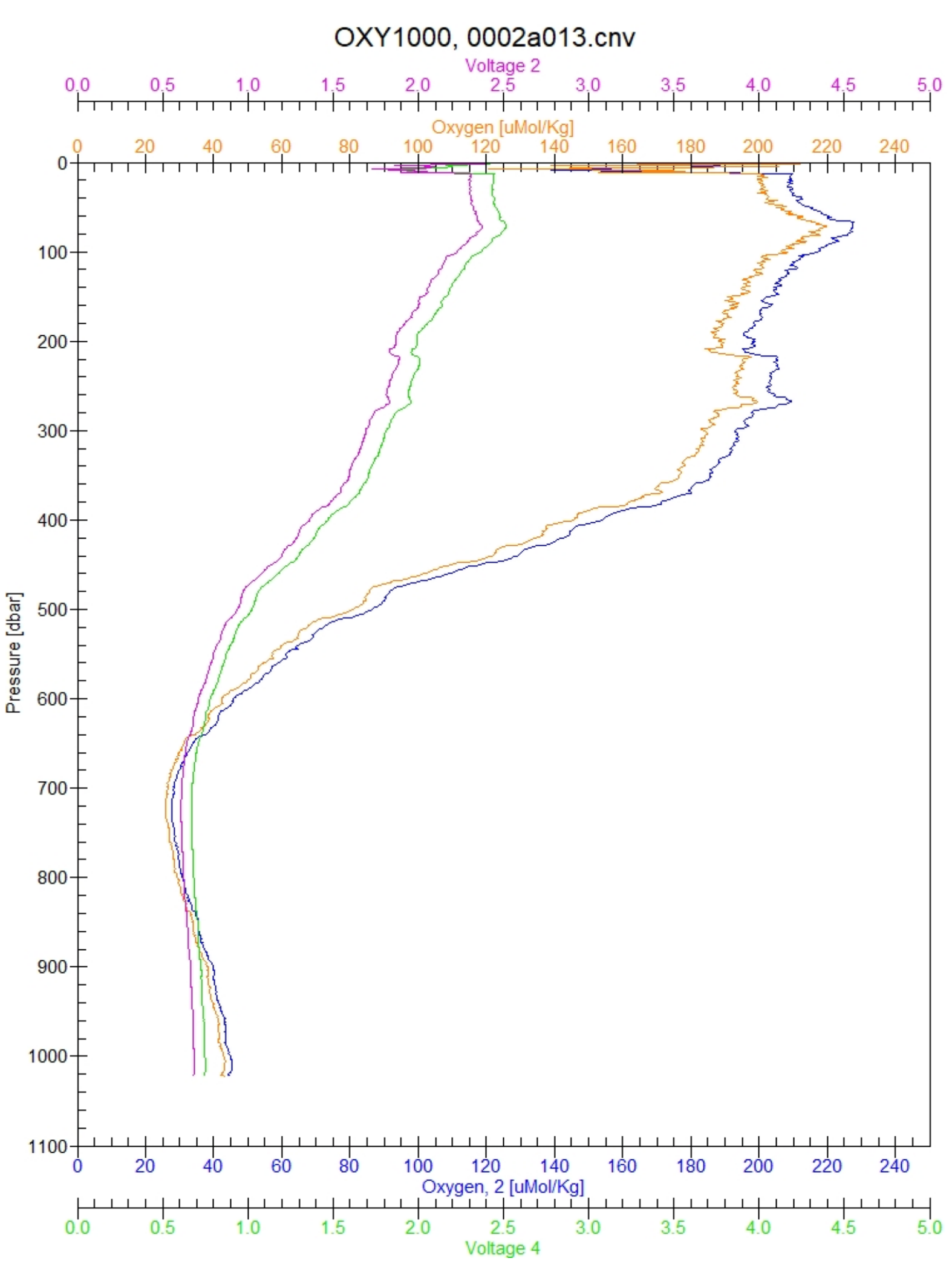

OXY1000, 0002a012.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Voltage 4
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

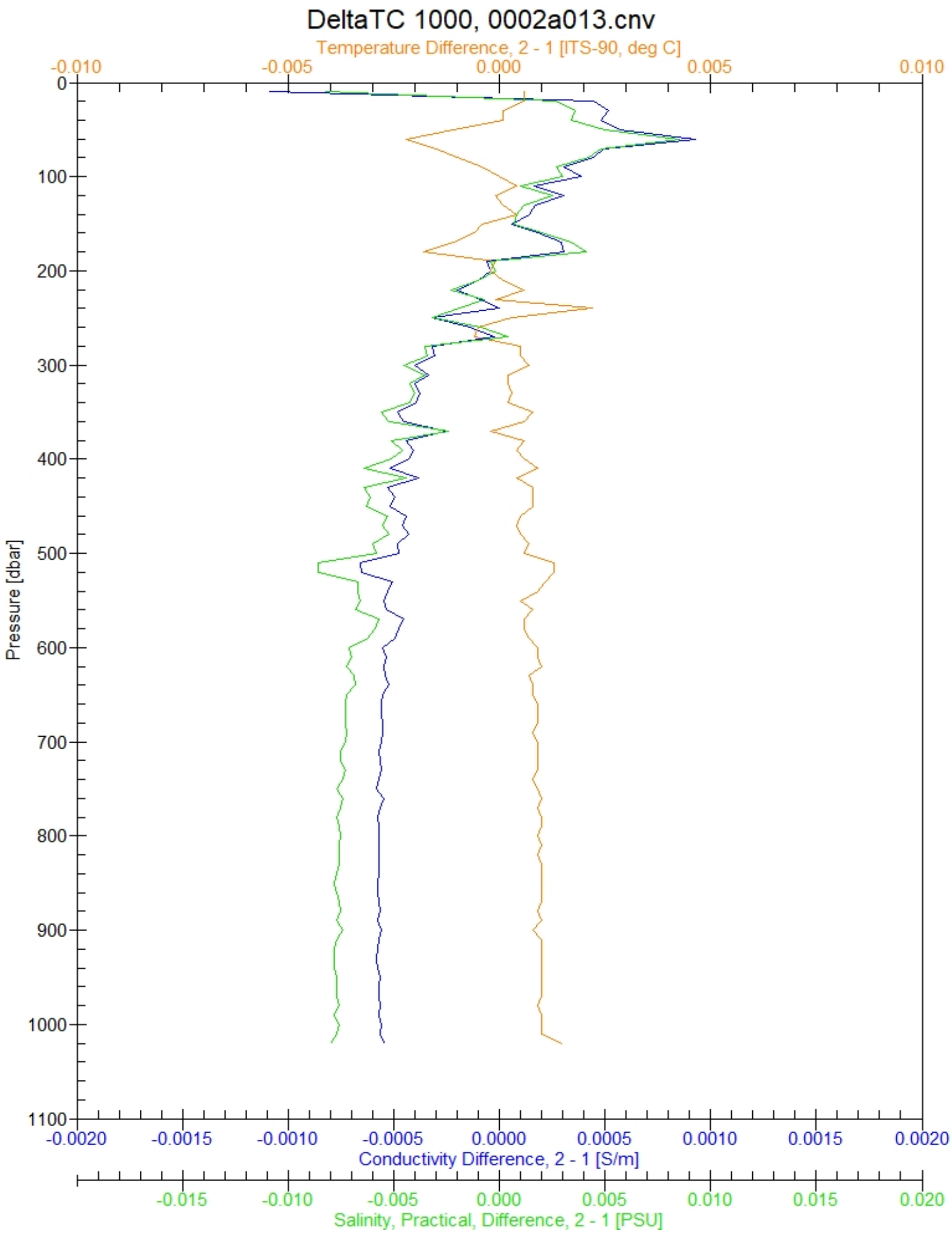

DeltaTC 1000, 0002a012.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

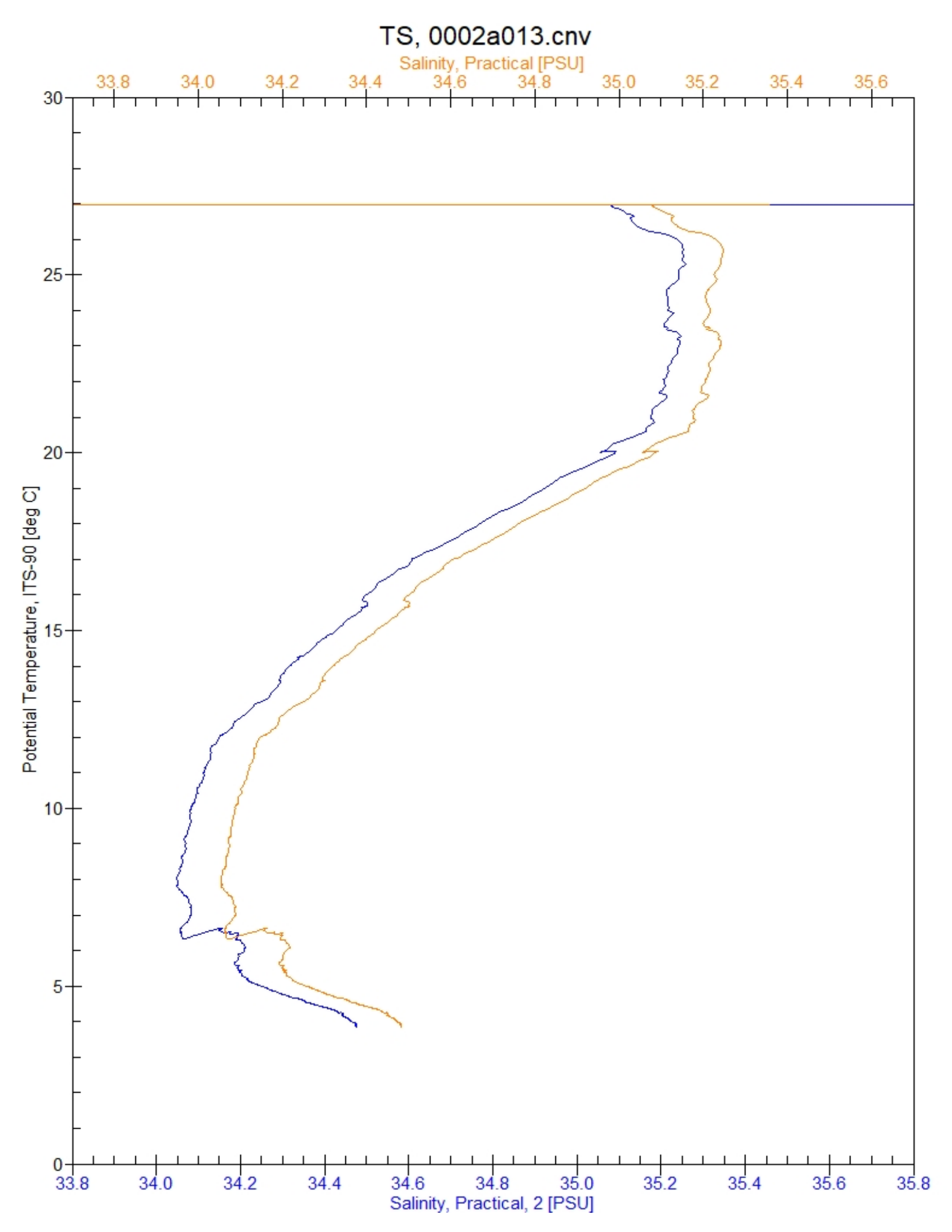

TS, 0002a012.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

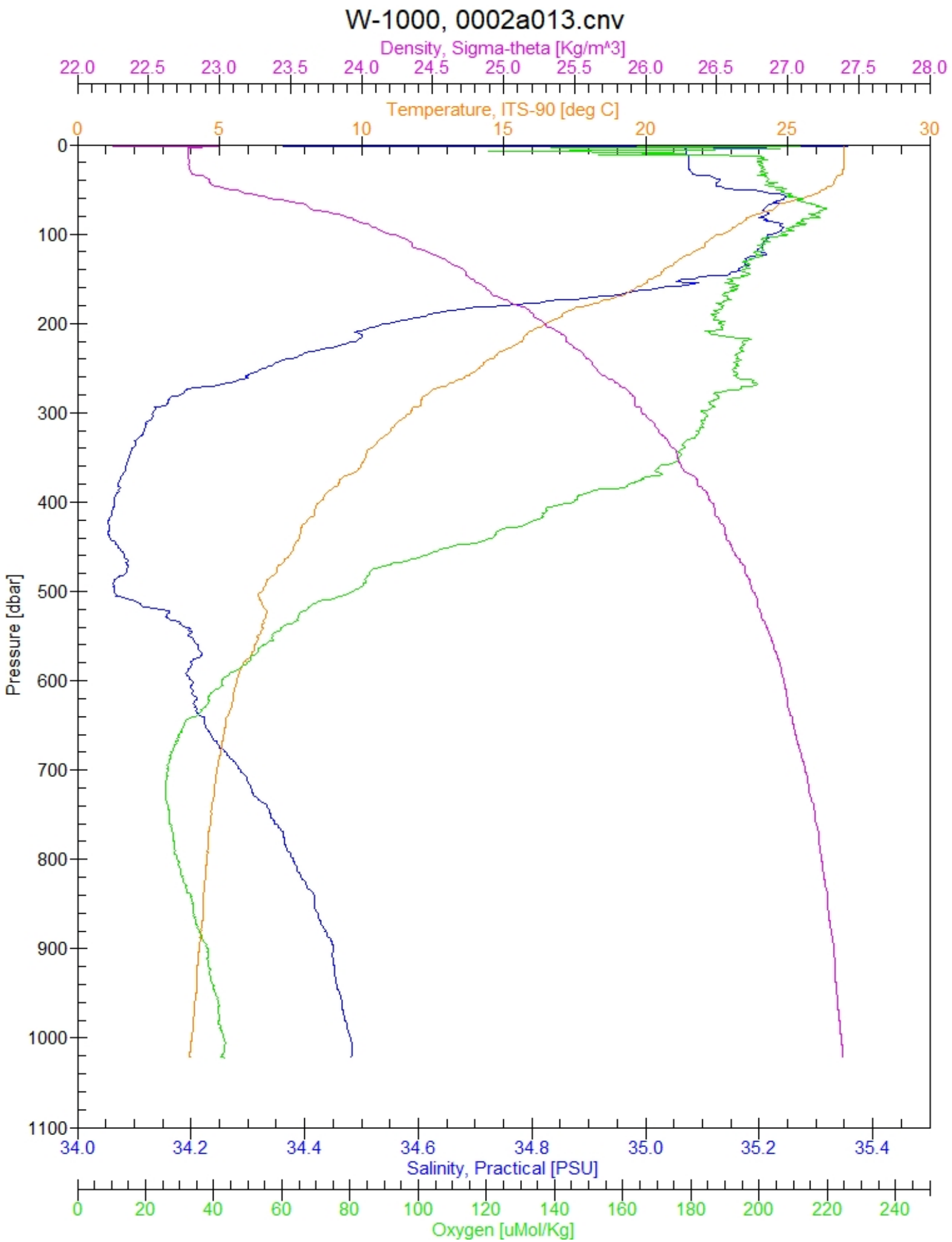

W-1000, 0002a012.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

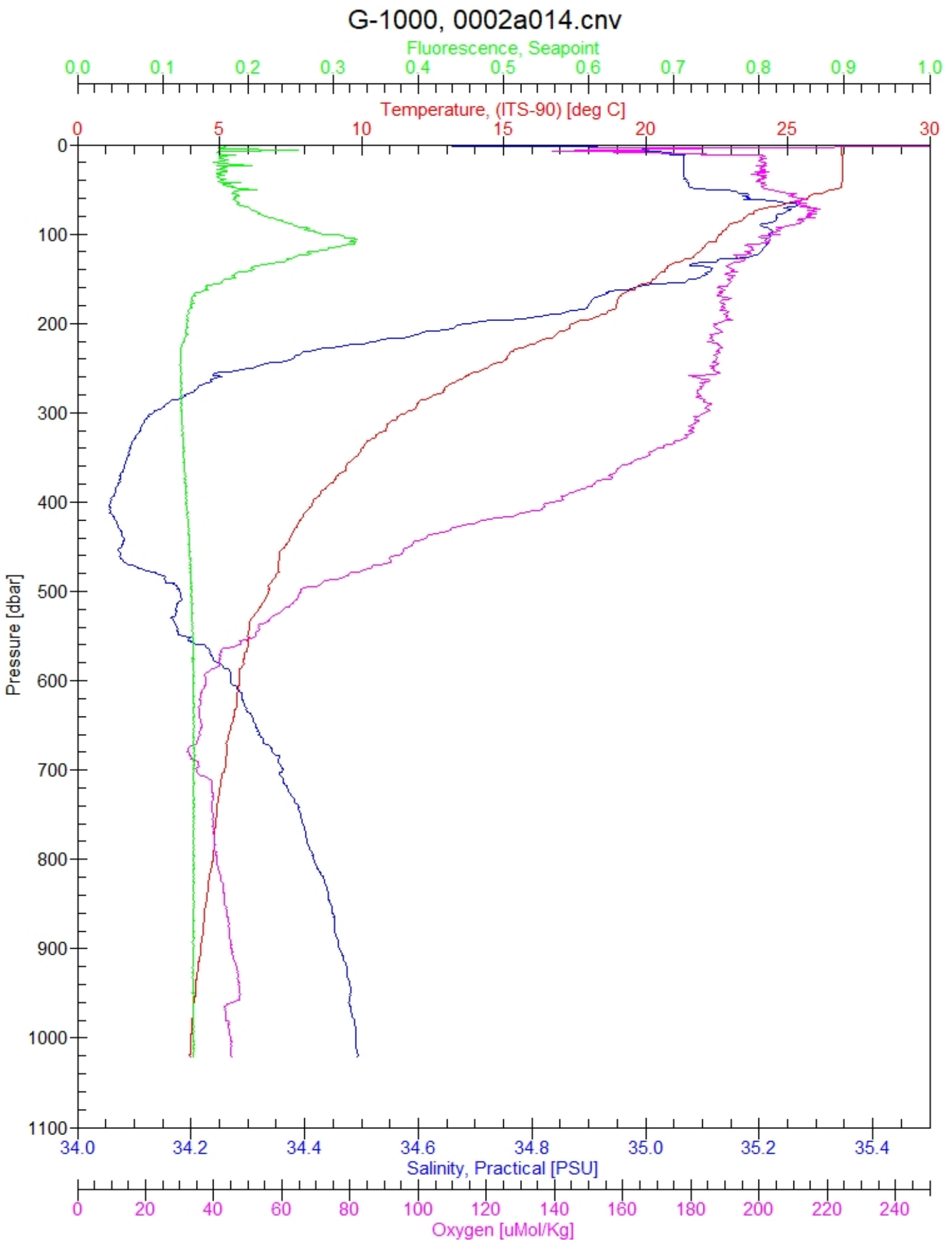

G-1000, 0002a013.cnv
Fluorescence, Seapoint
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
Temperature, (ITS-90) [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

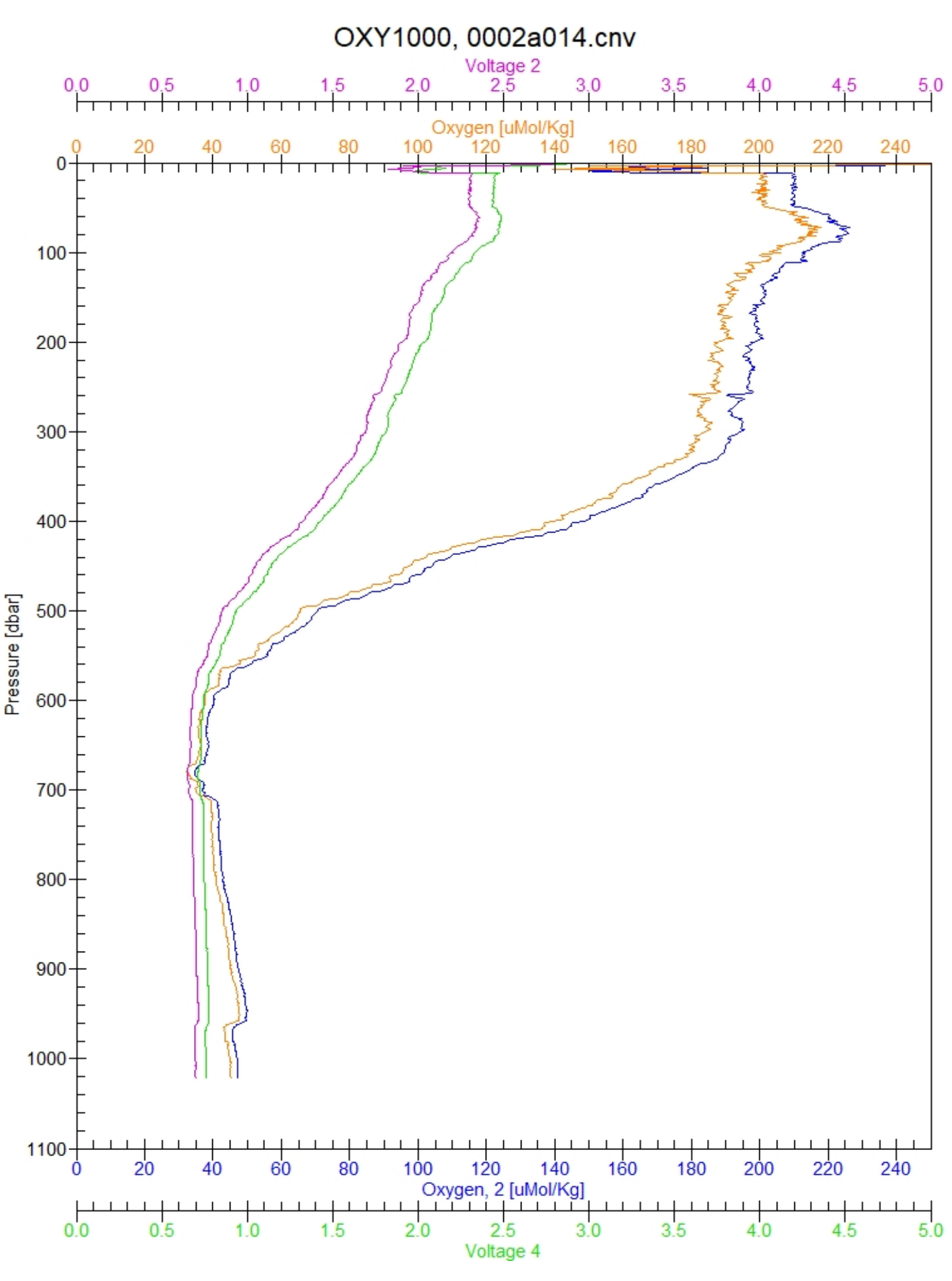

OXY1000, 0002a013.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

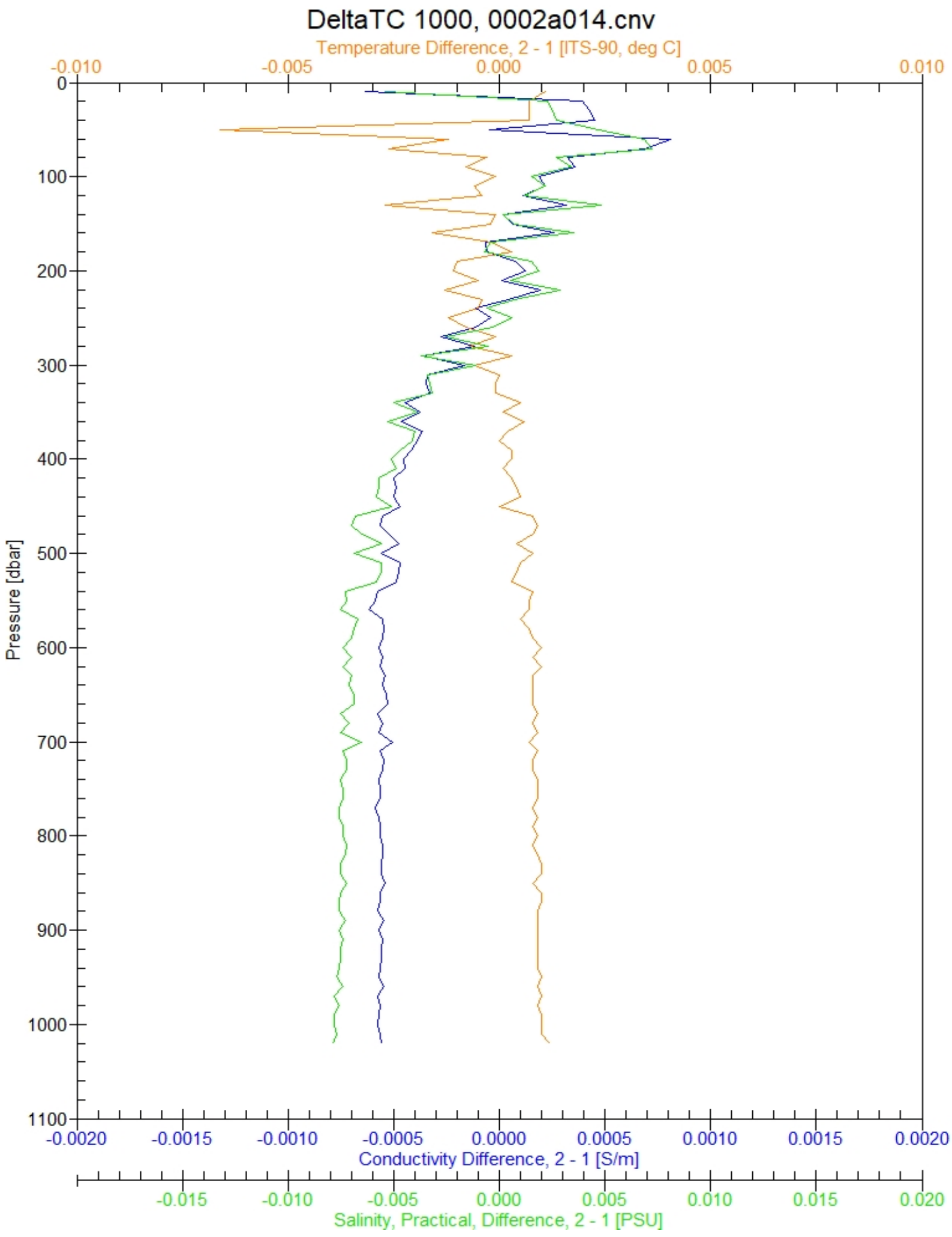

DeltaTC 1000, 0002a013.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

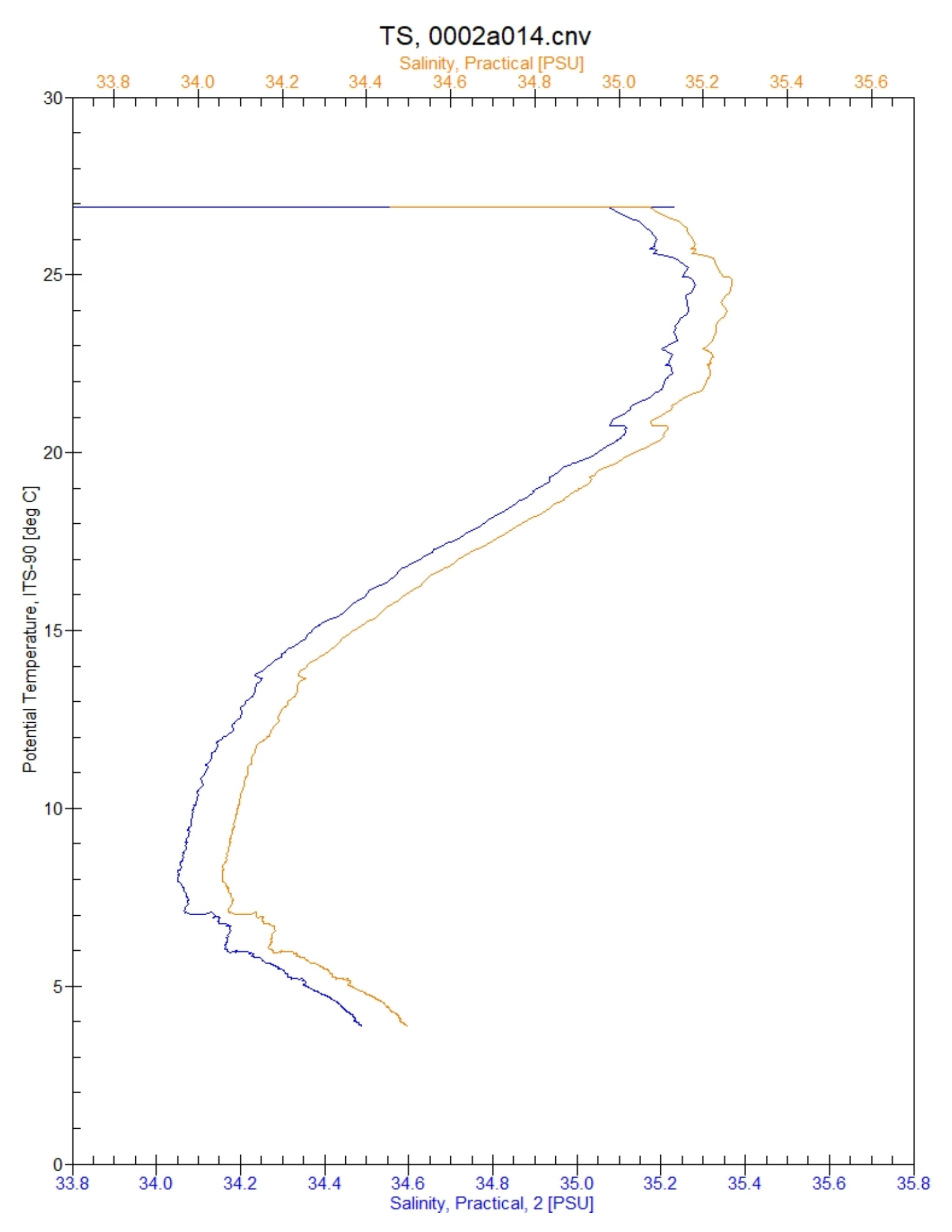

TS, 0002a013.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

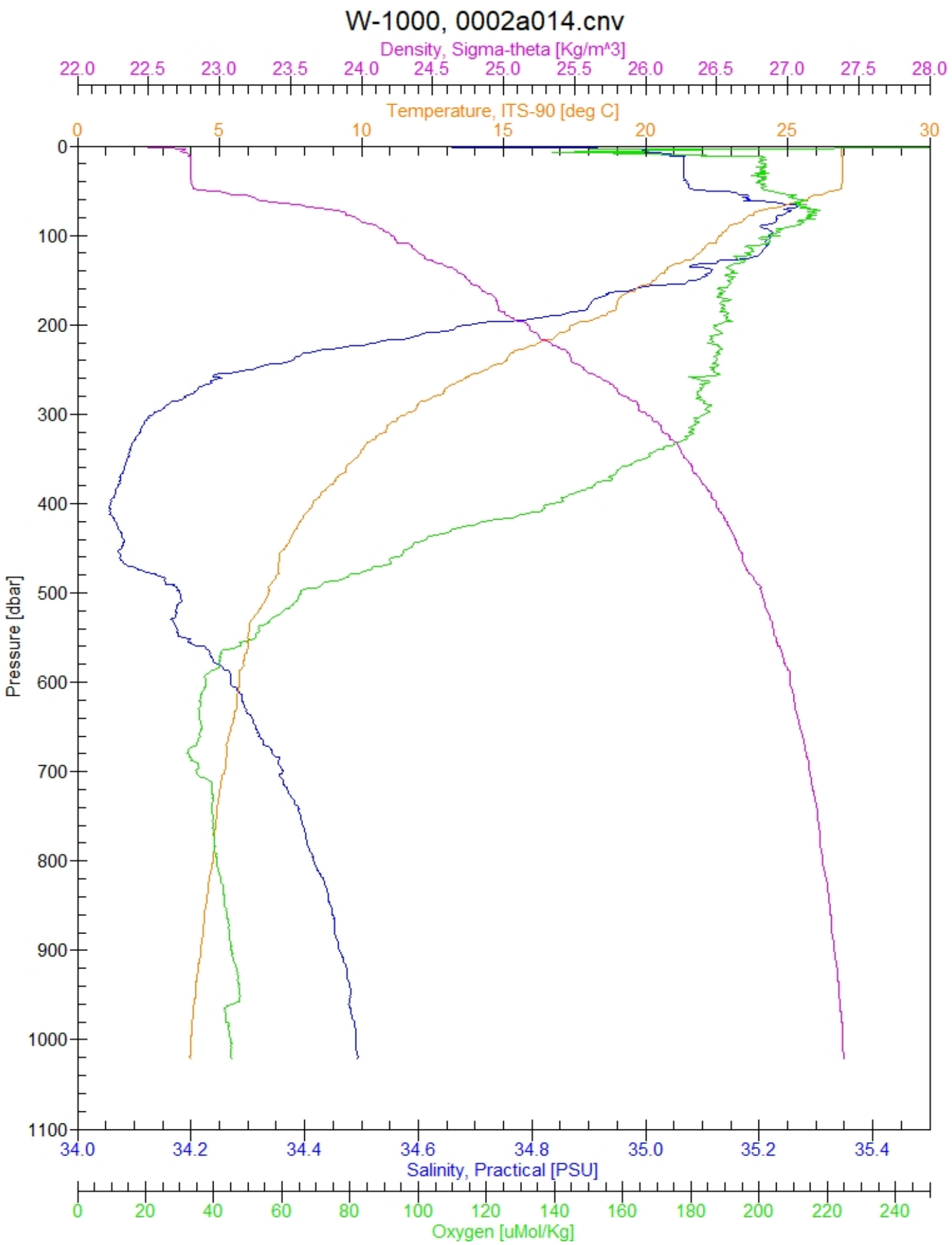

W-1000, 0002a013.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

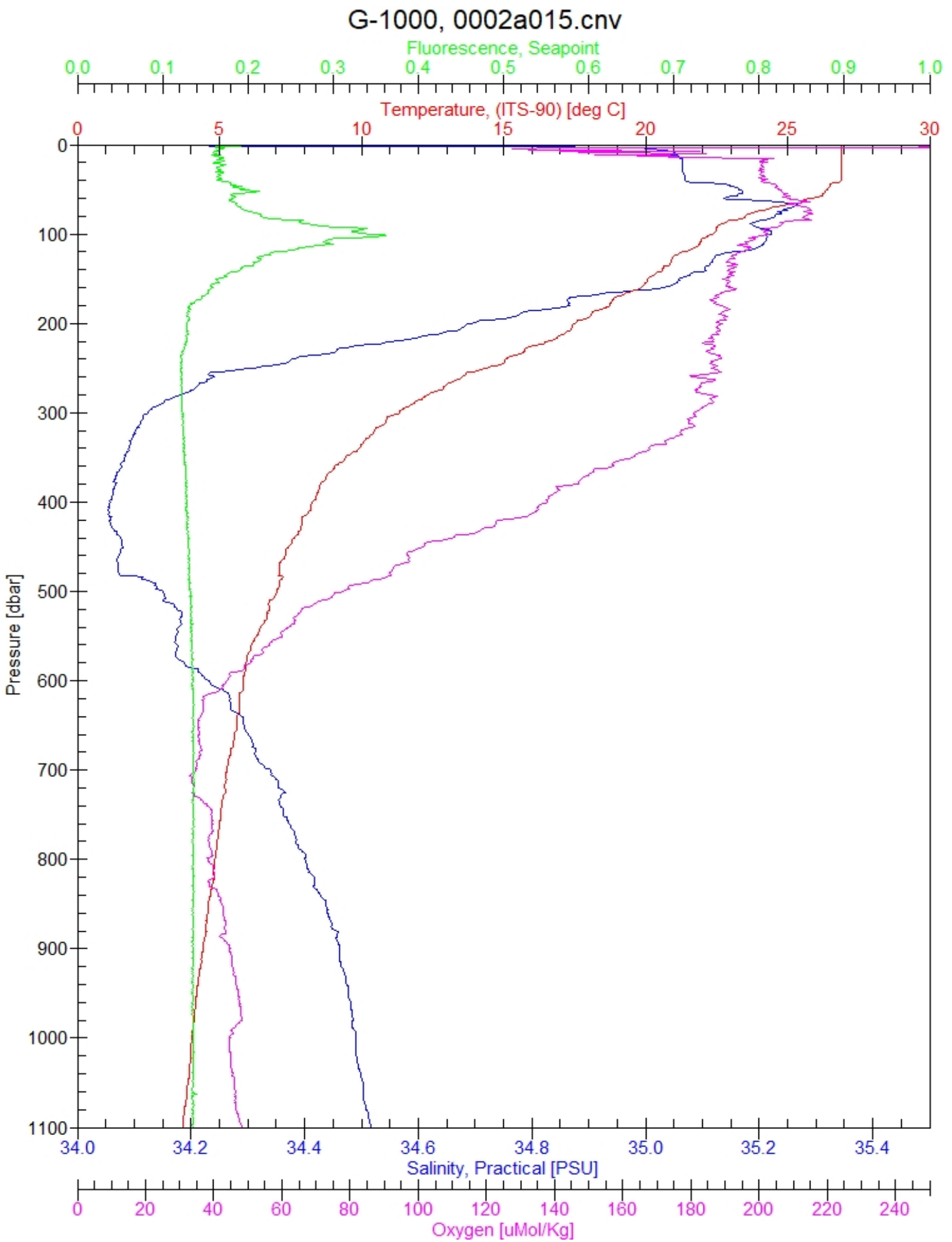

G-1000, 0002a014.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

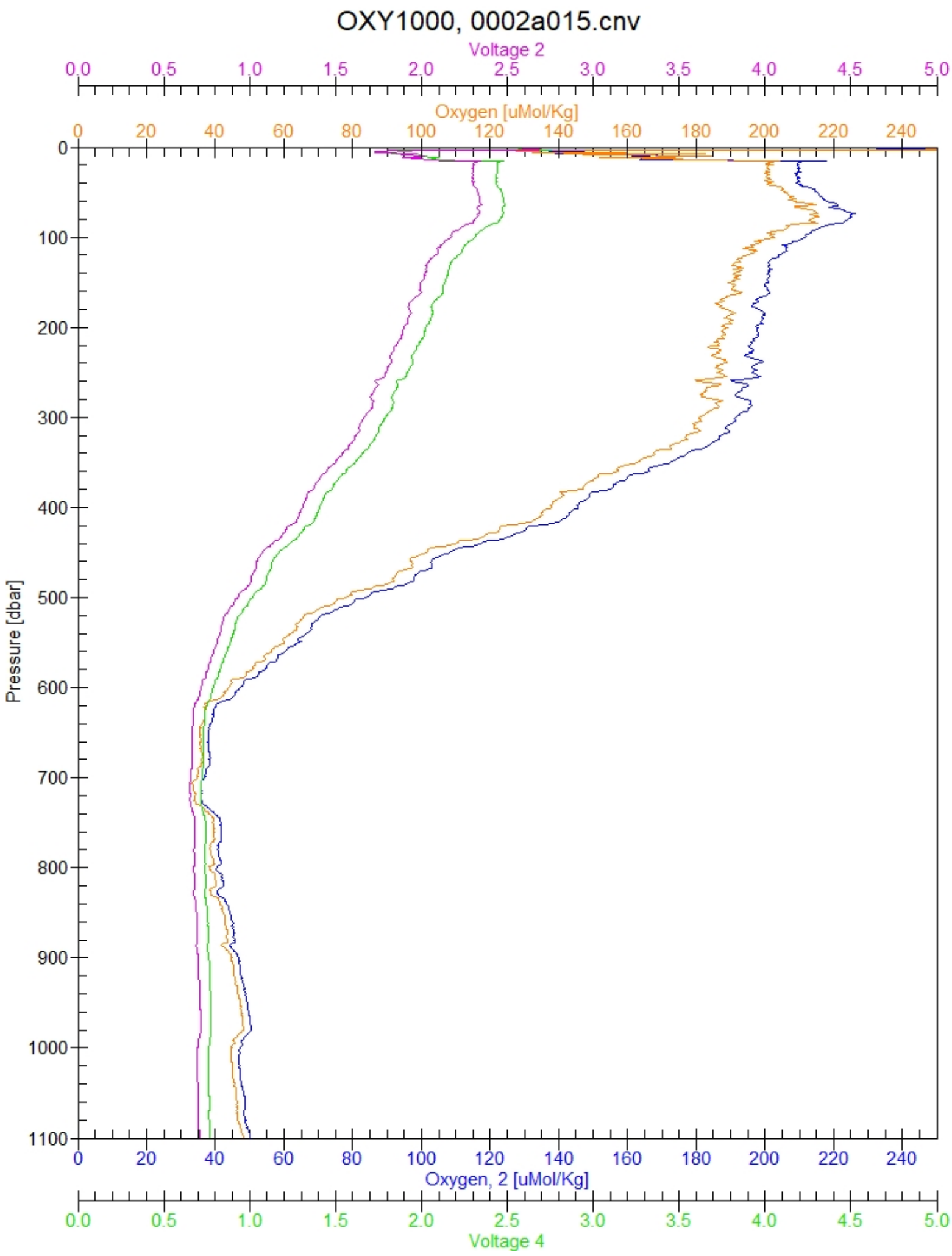

OXY1000, 0002a014.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

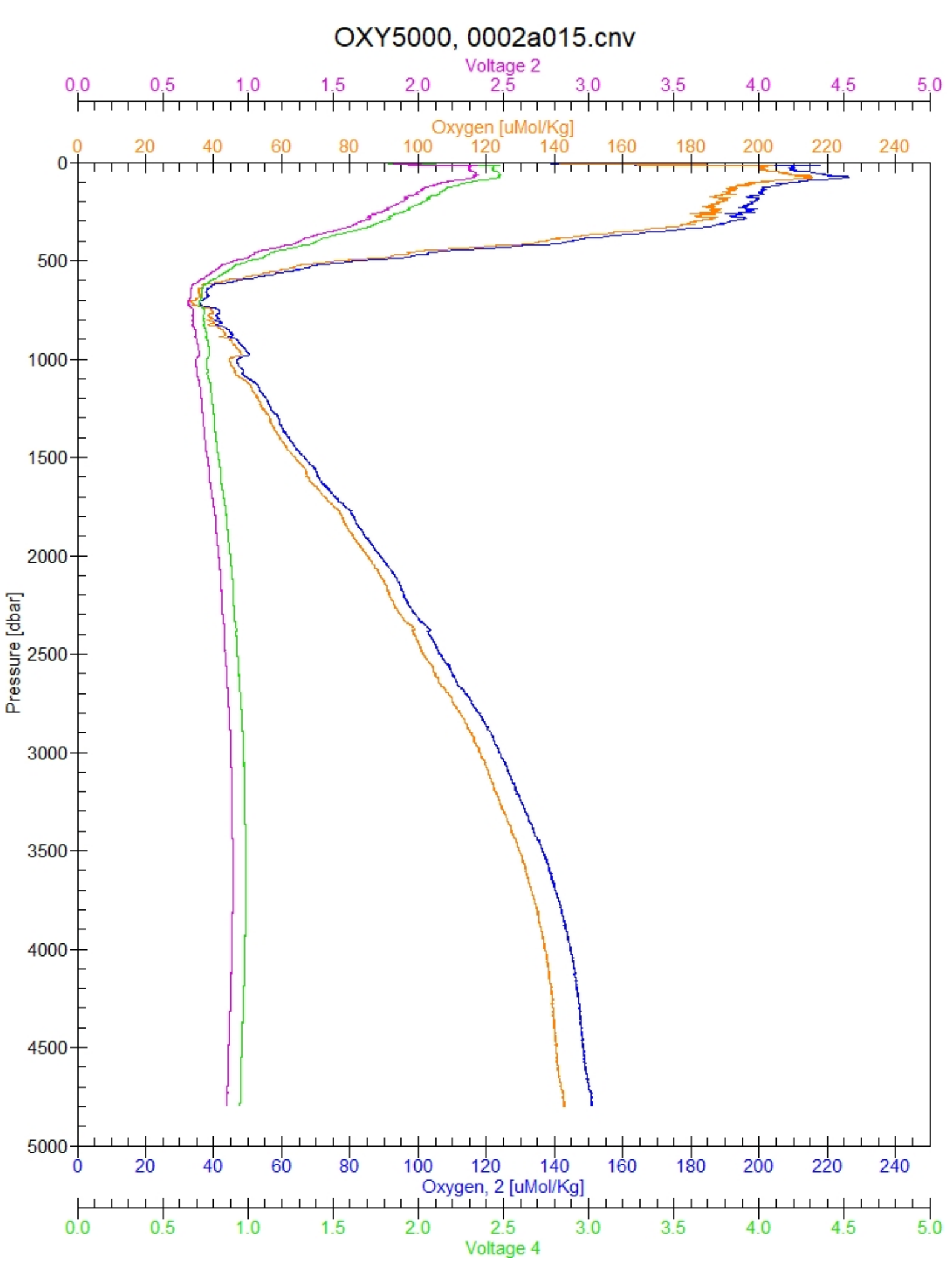

DeltaTC 1000, 0002a014.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

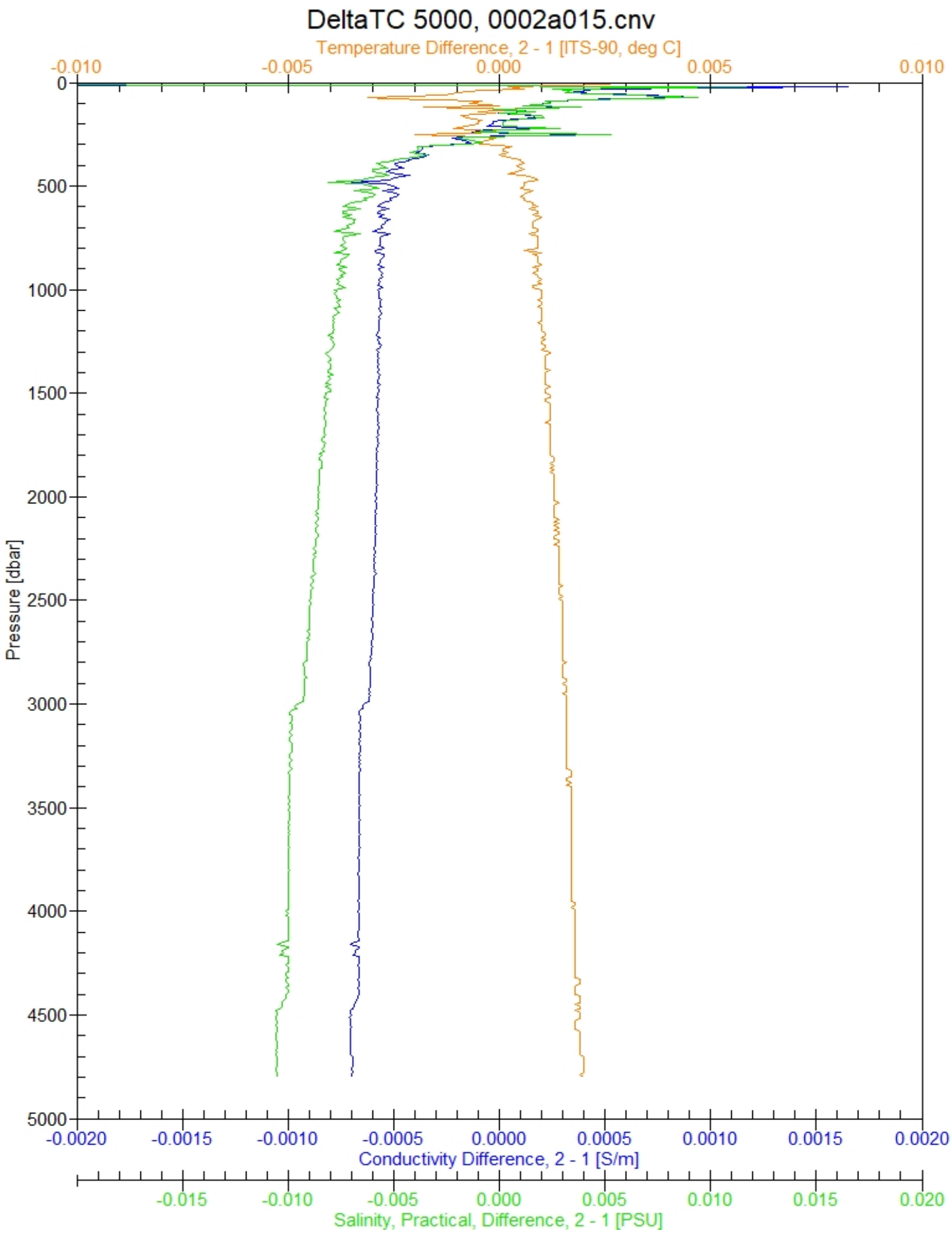

TS, 0002a014.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

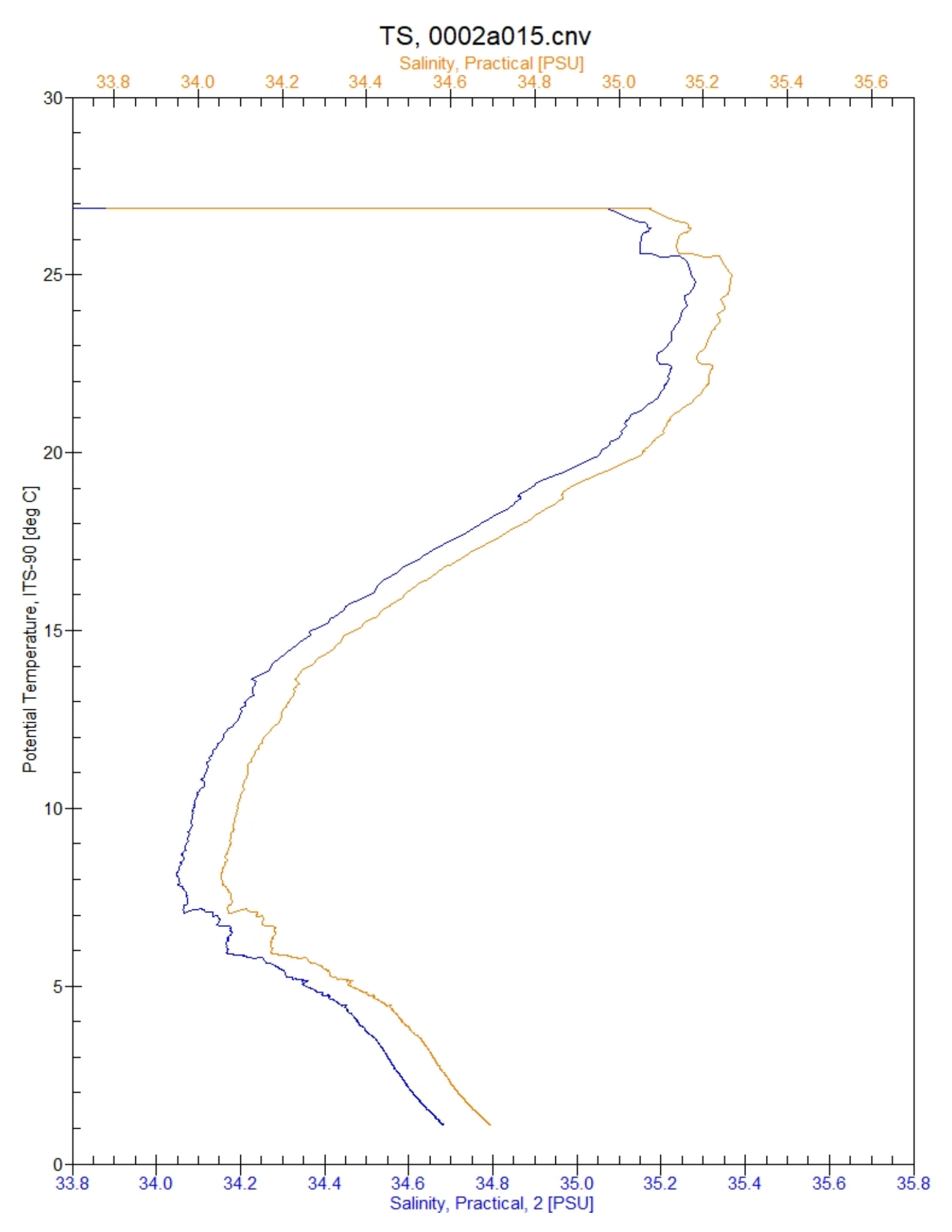

W-1000, 0002a014.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

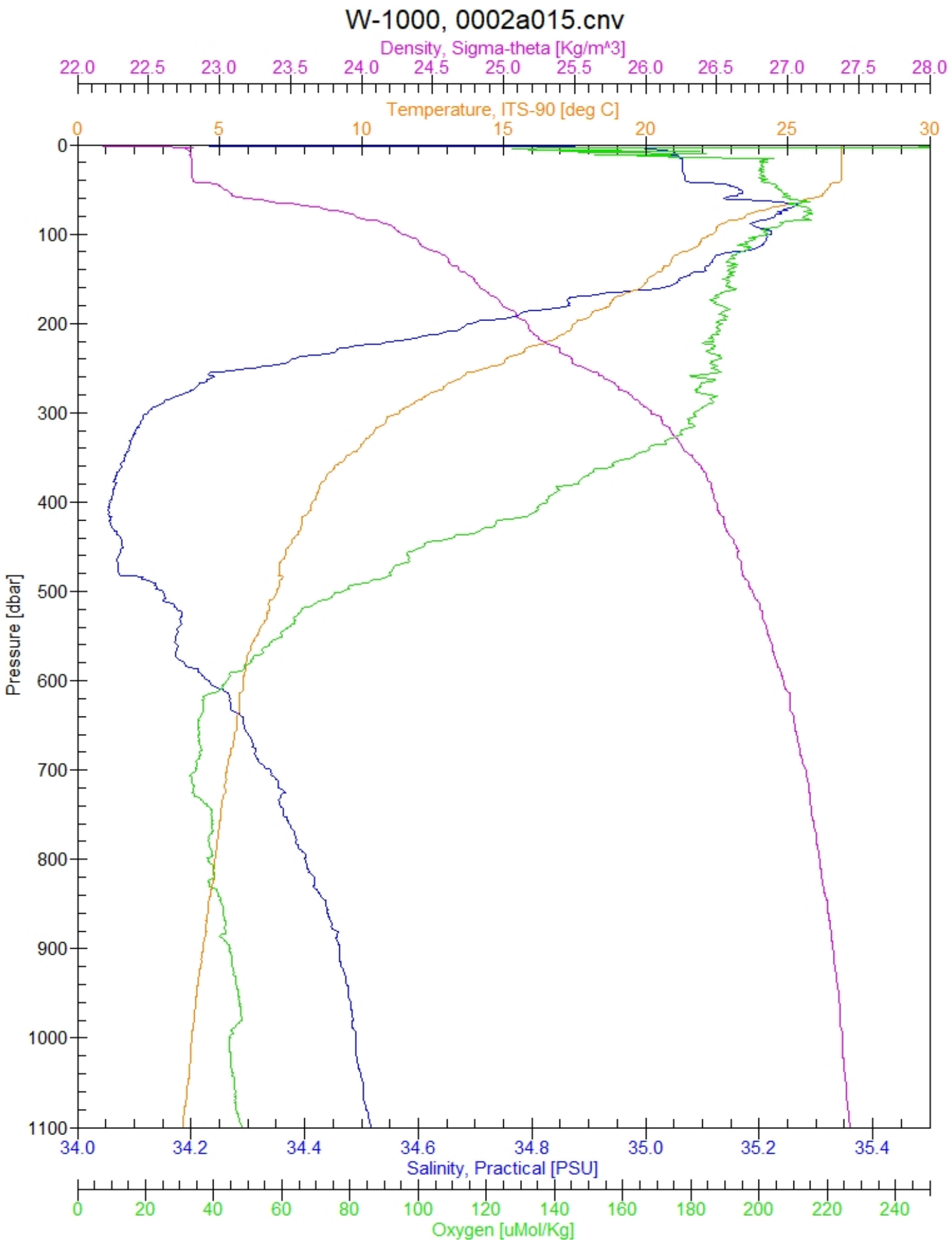

G-1000, 0002a015.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

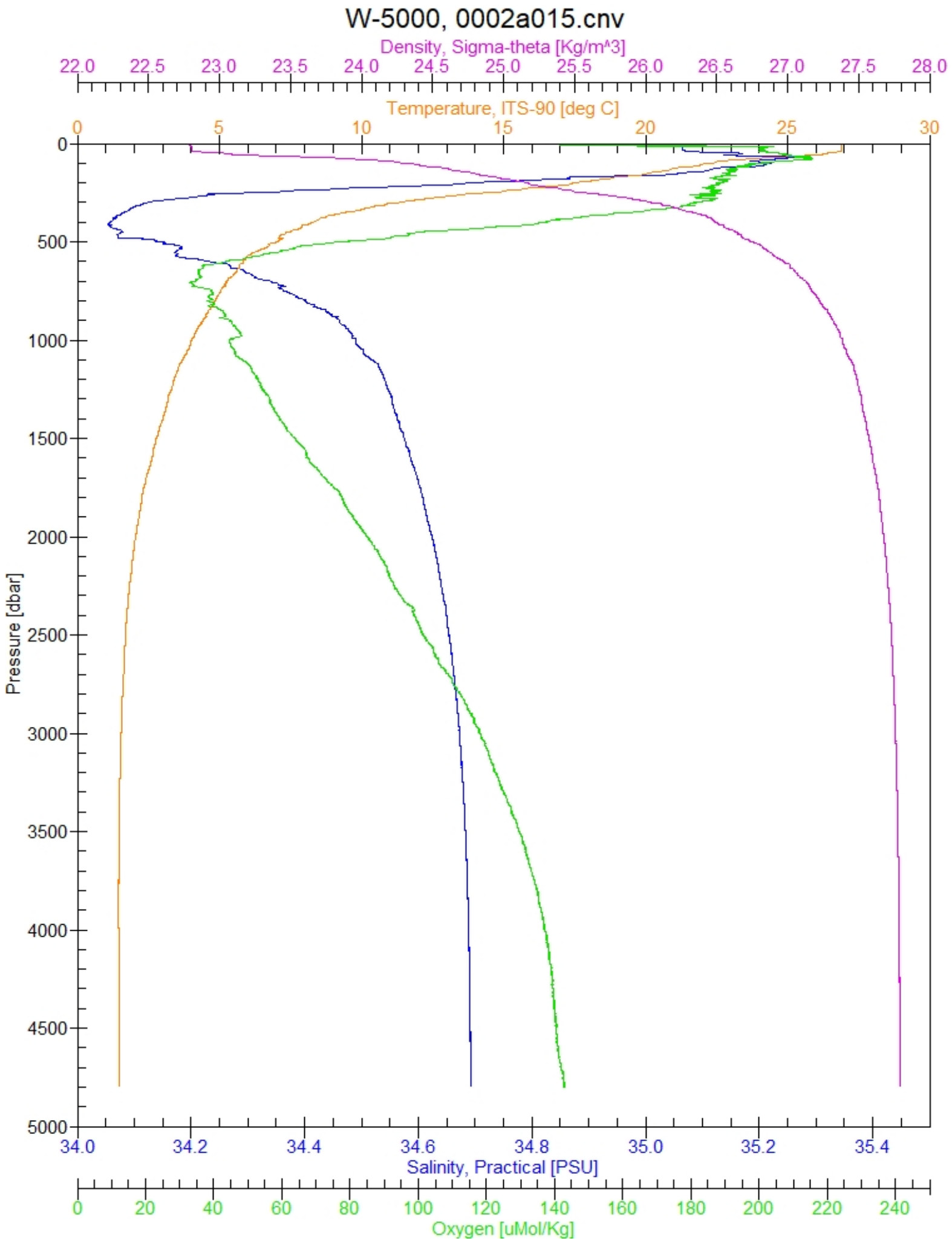

OXY1000, 0002a015.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

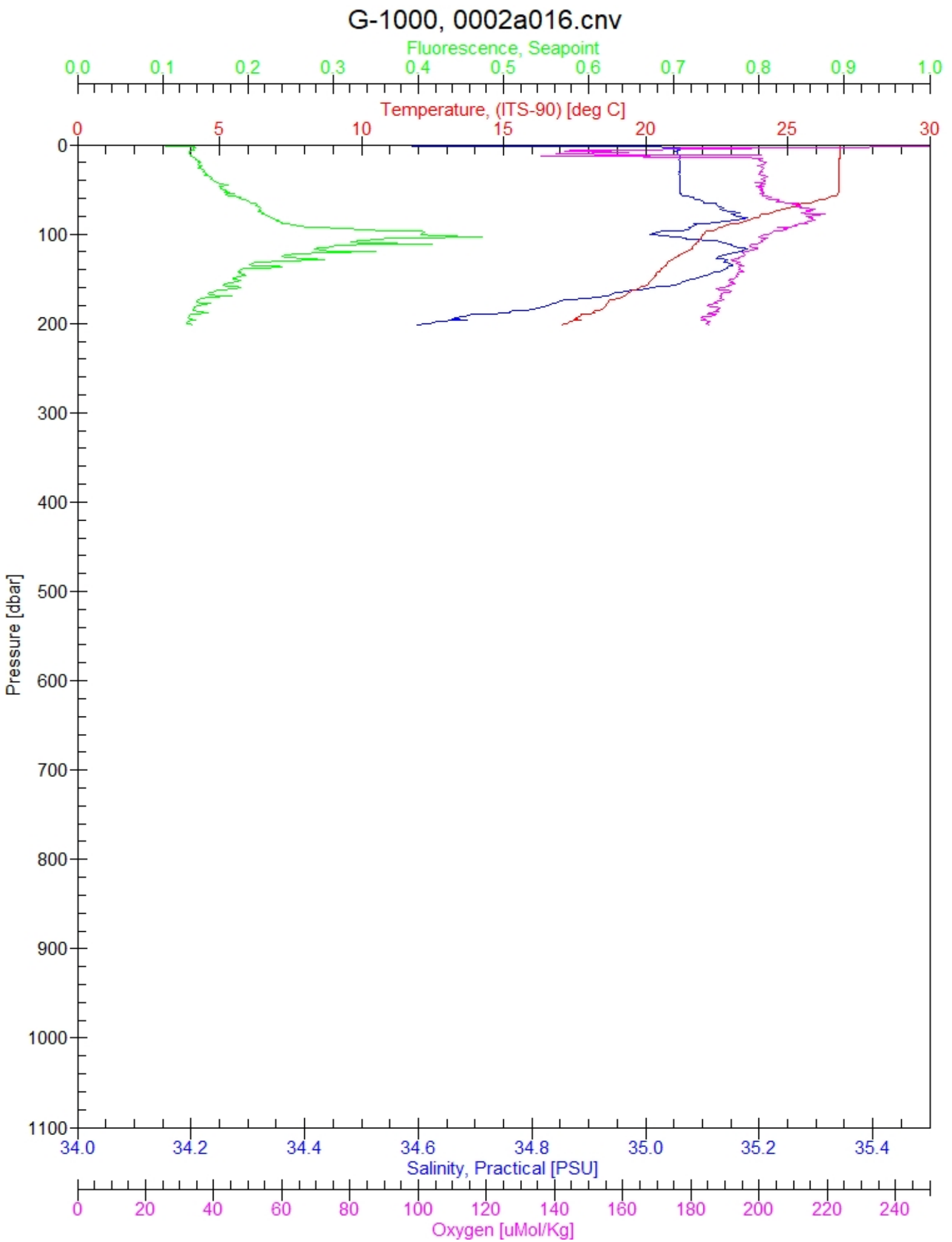

OXY5000, 0002a015.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

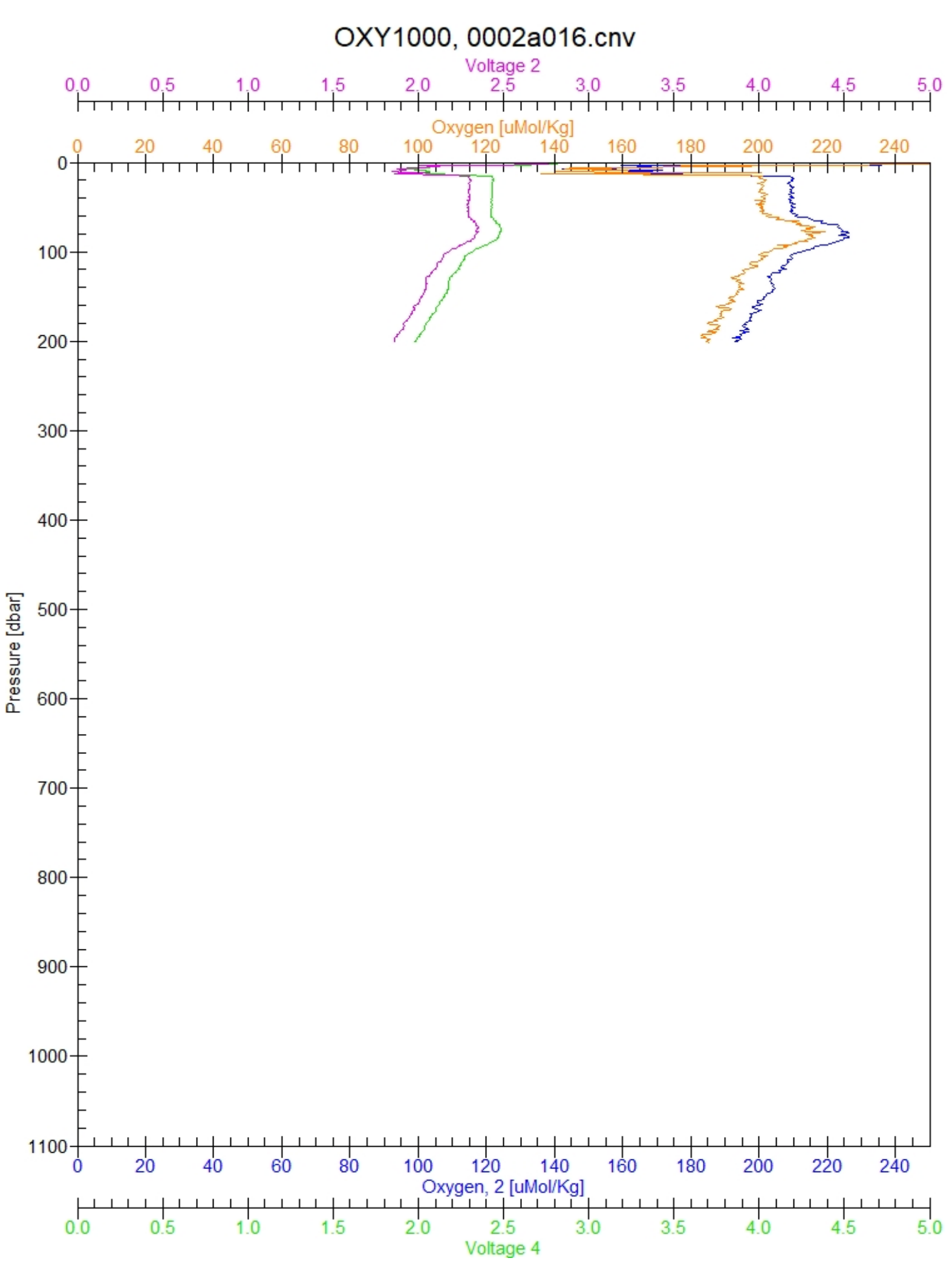

DeltaTC 5000, 0002a015.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Pressure [dbar]
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

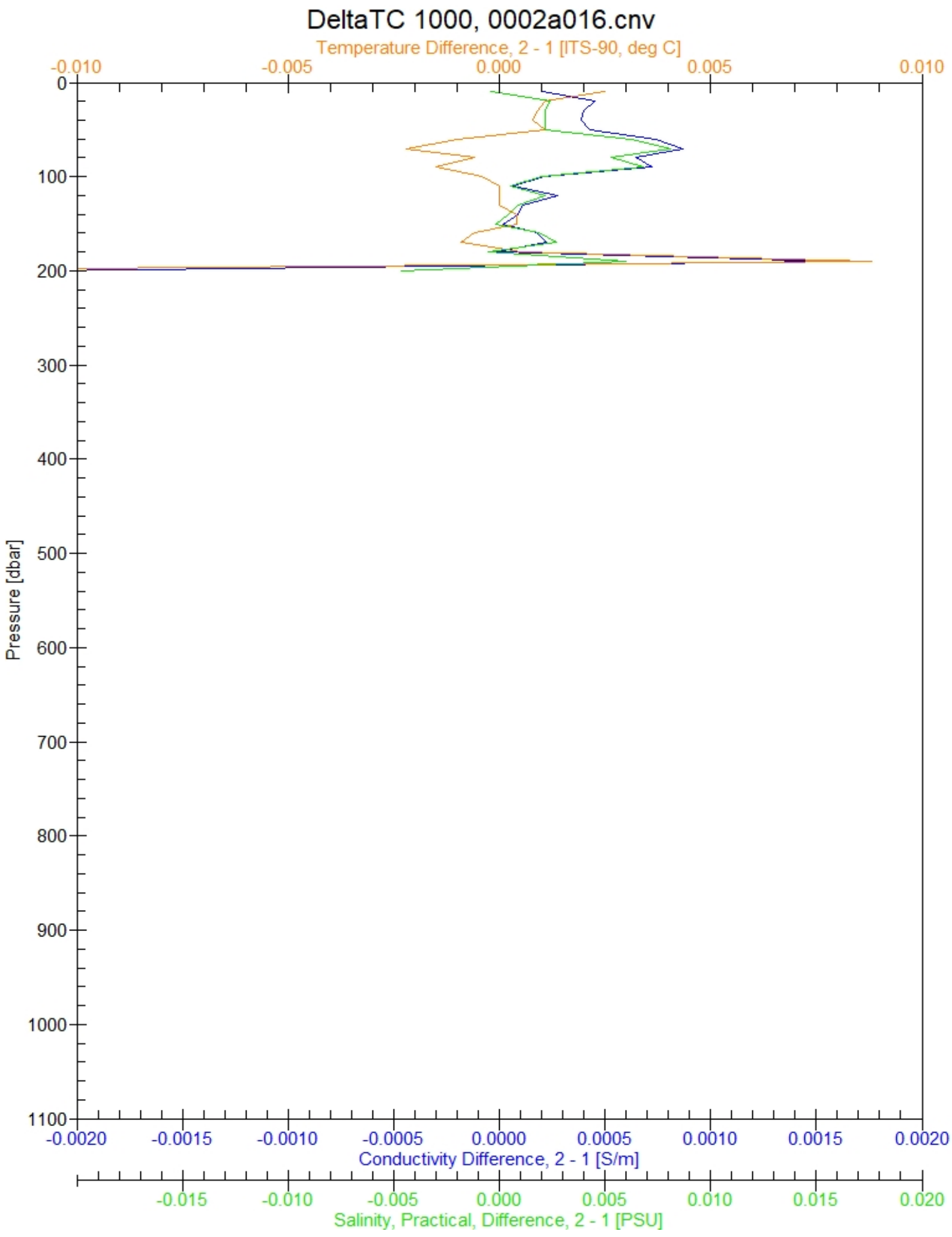

TS, 0002a015.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

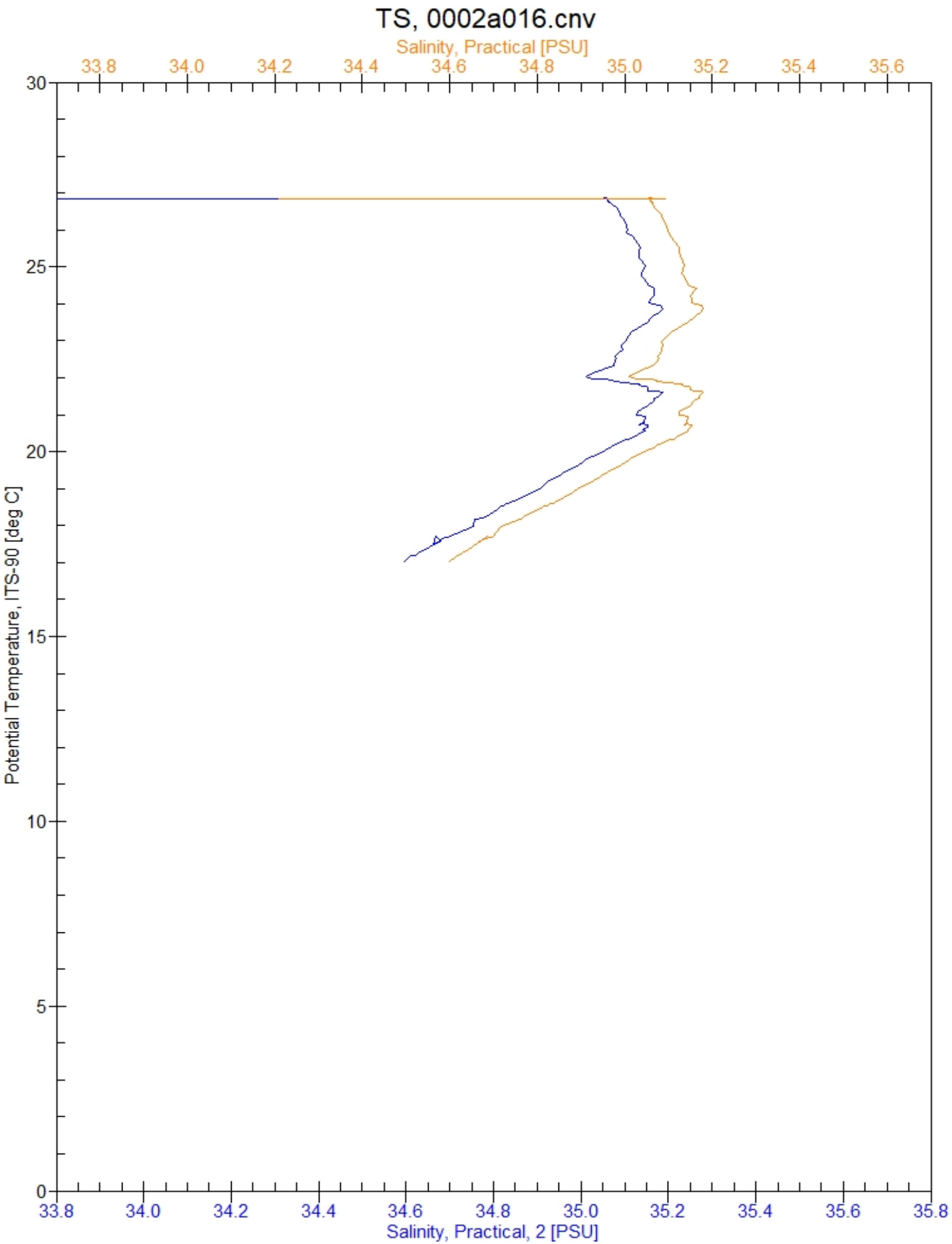

W-1000, 0002a015.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

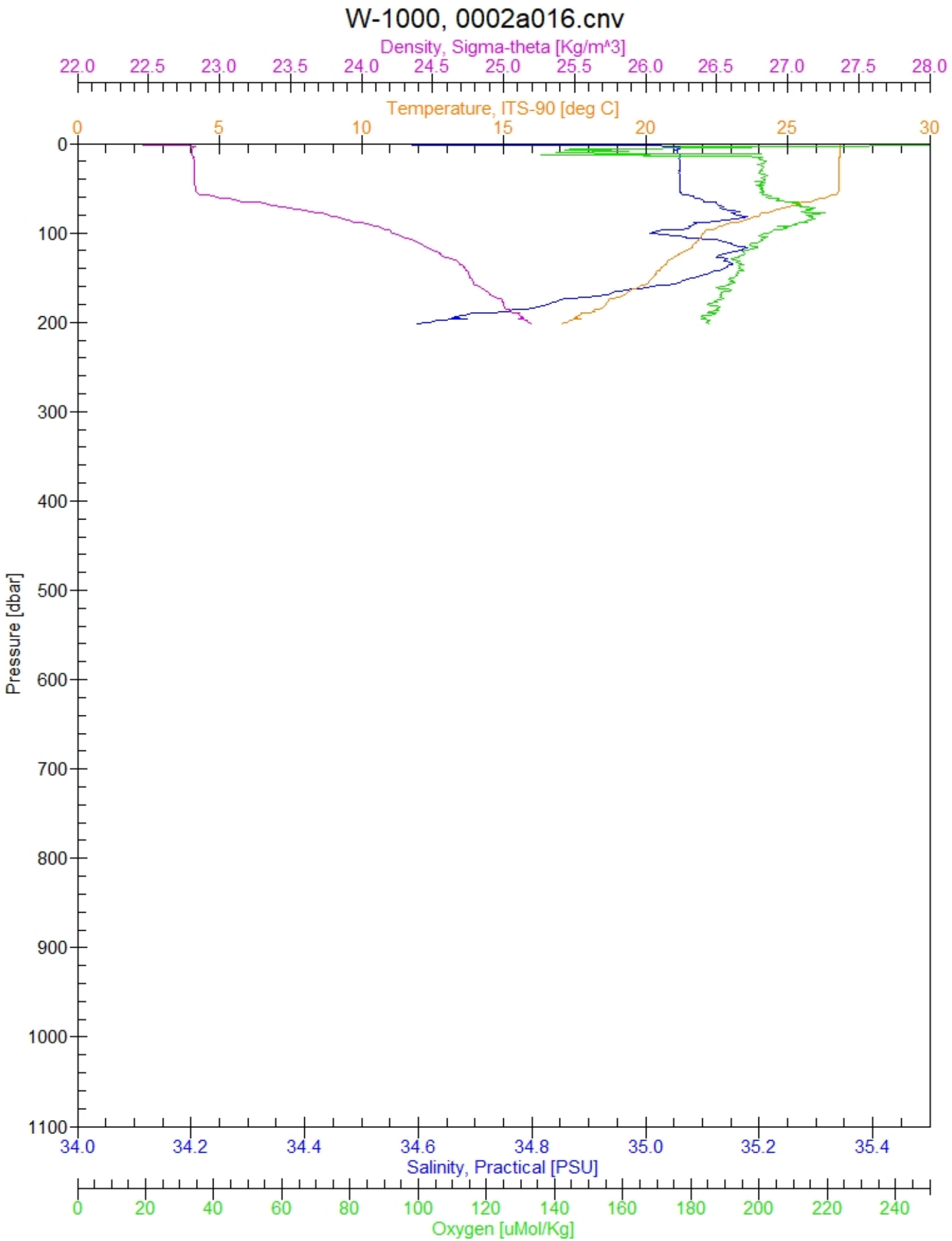

W-5000, 0002a015.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

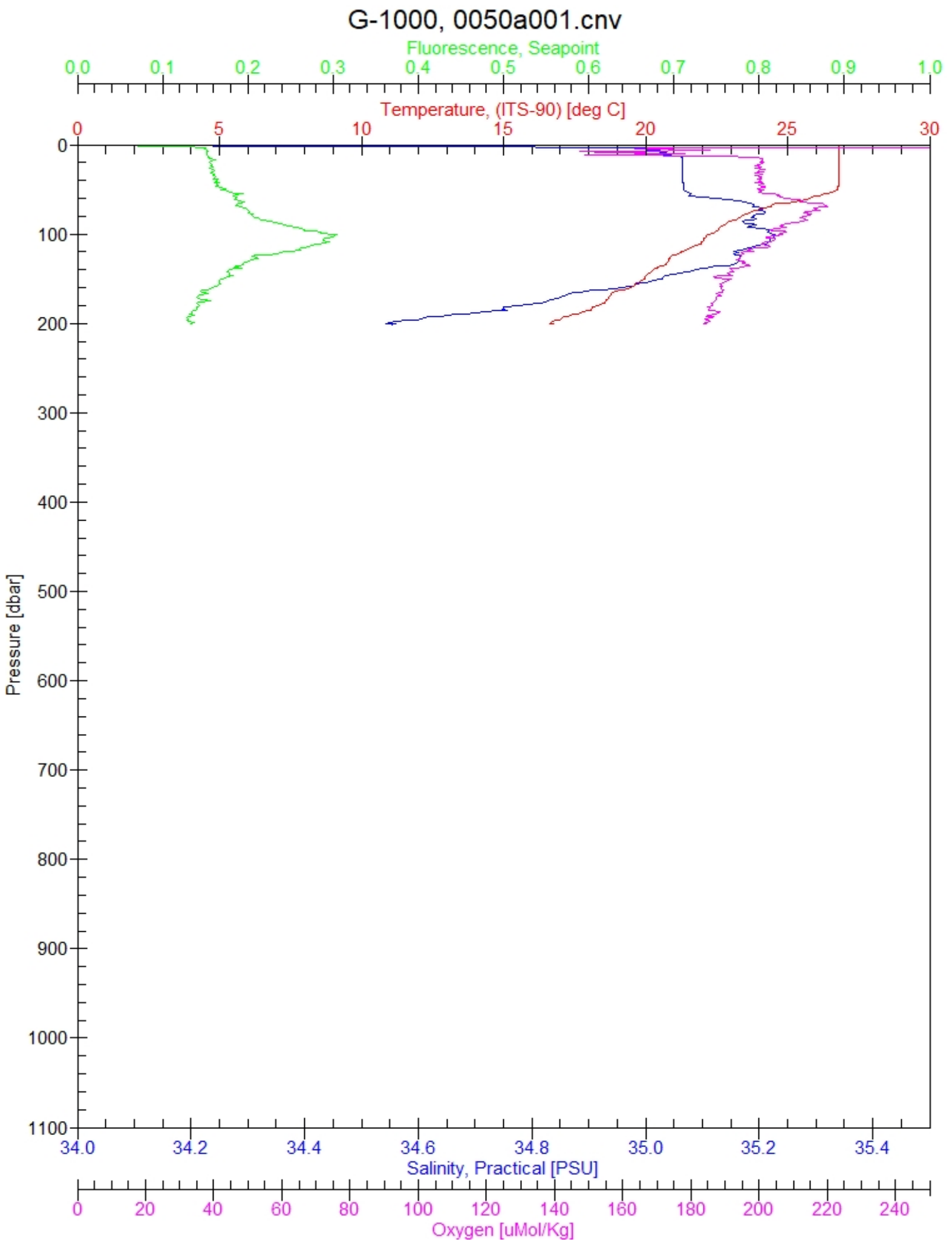

G-1000, 0002a016.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

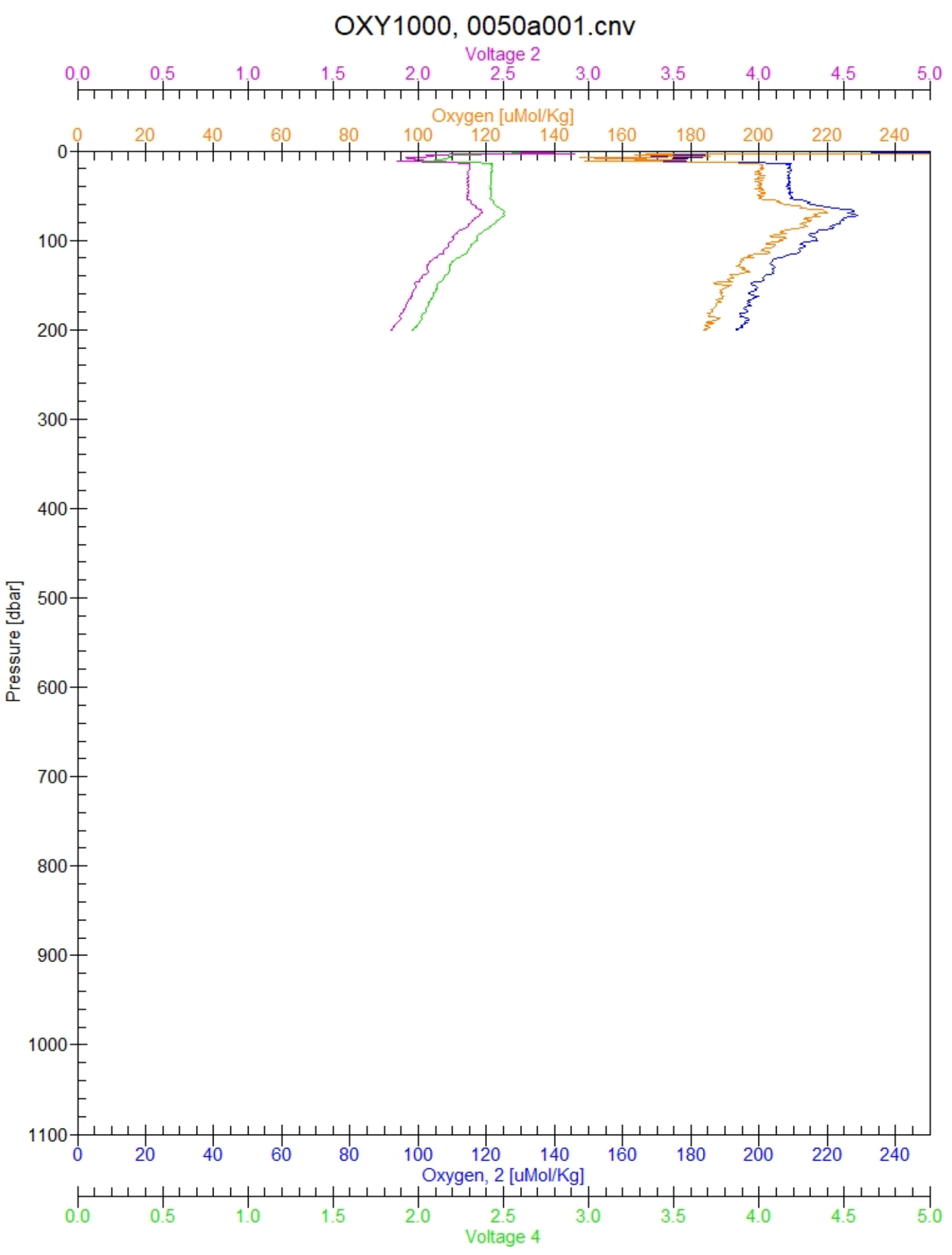

OXY1000, 0002a016.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

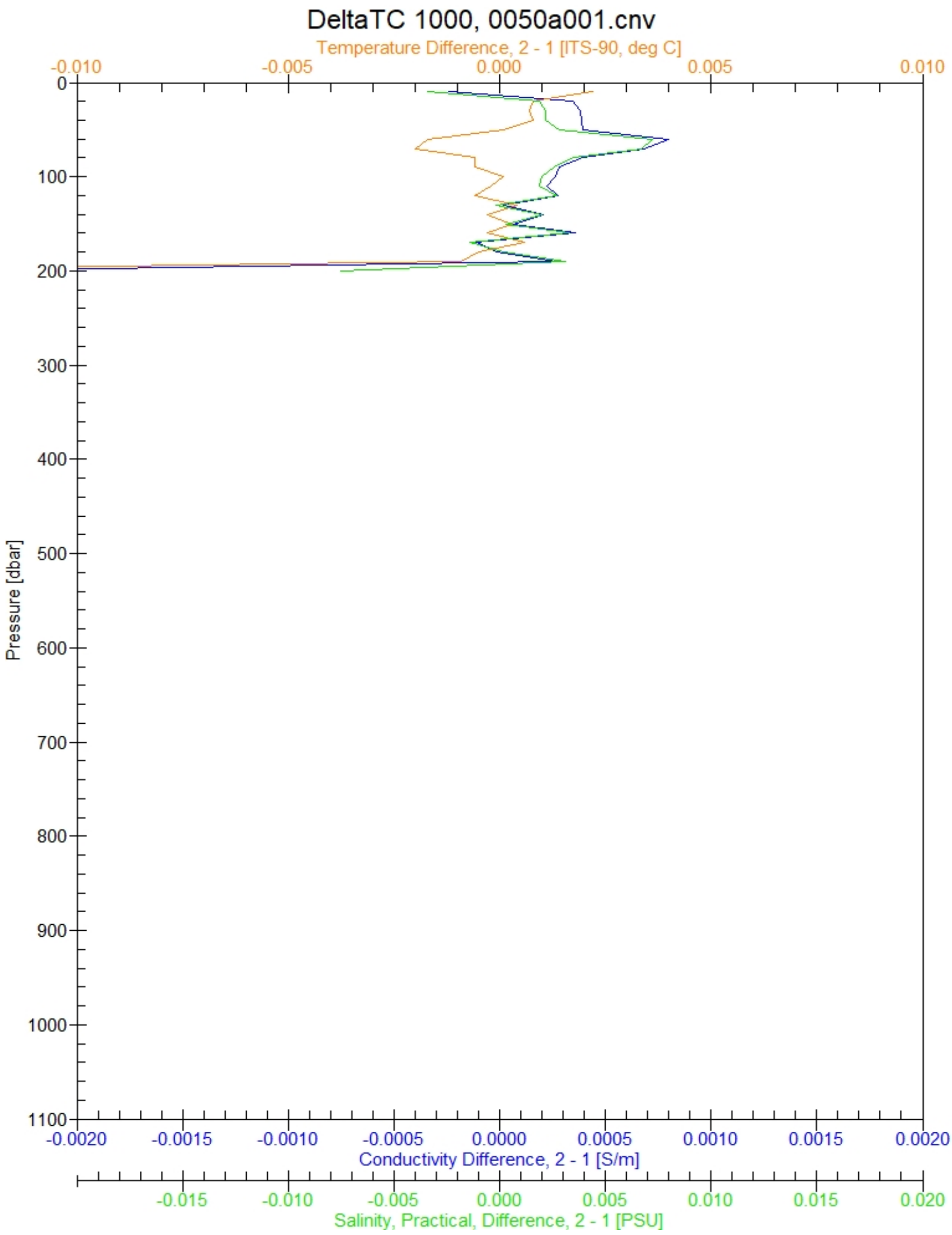

DeltaTC 1000, 0002a016.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
0
100
200
300
400
500
600
700
800
900
1000
1100
Pressure [dbar]
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

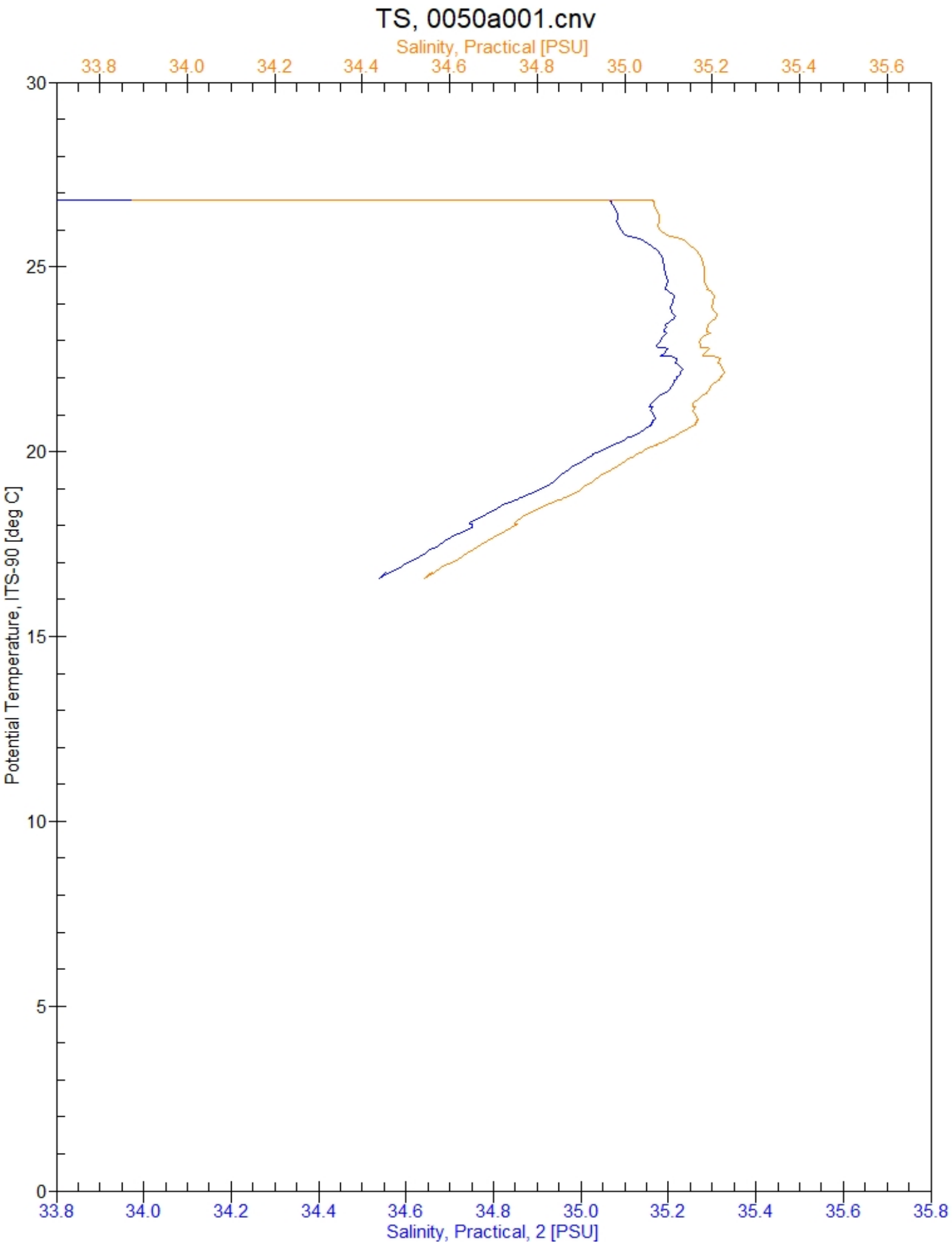

TS, 0002a016.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

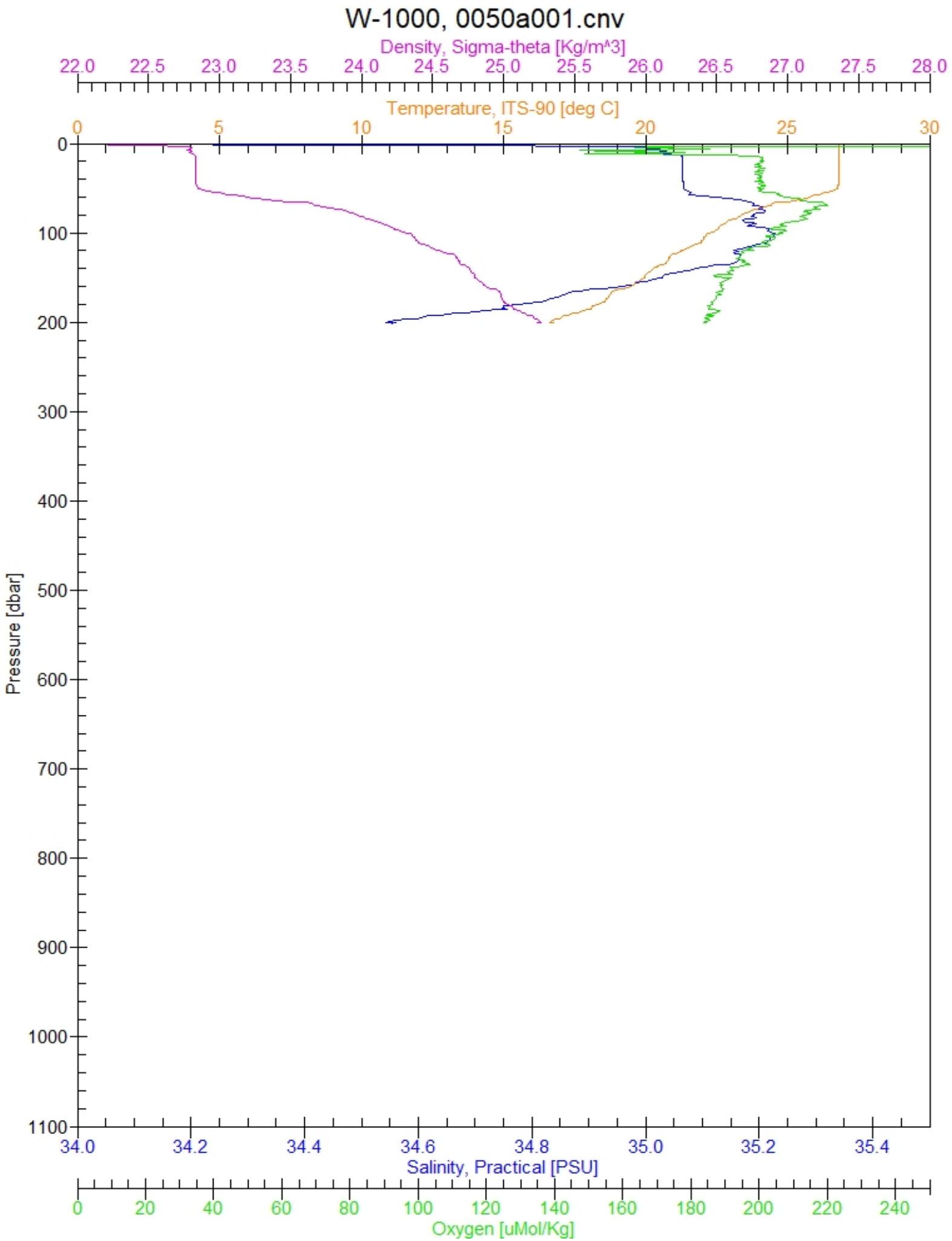

W-1000, 0002a016.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

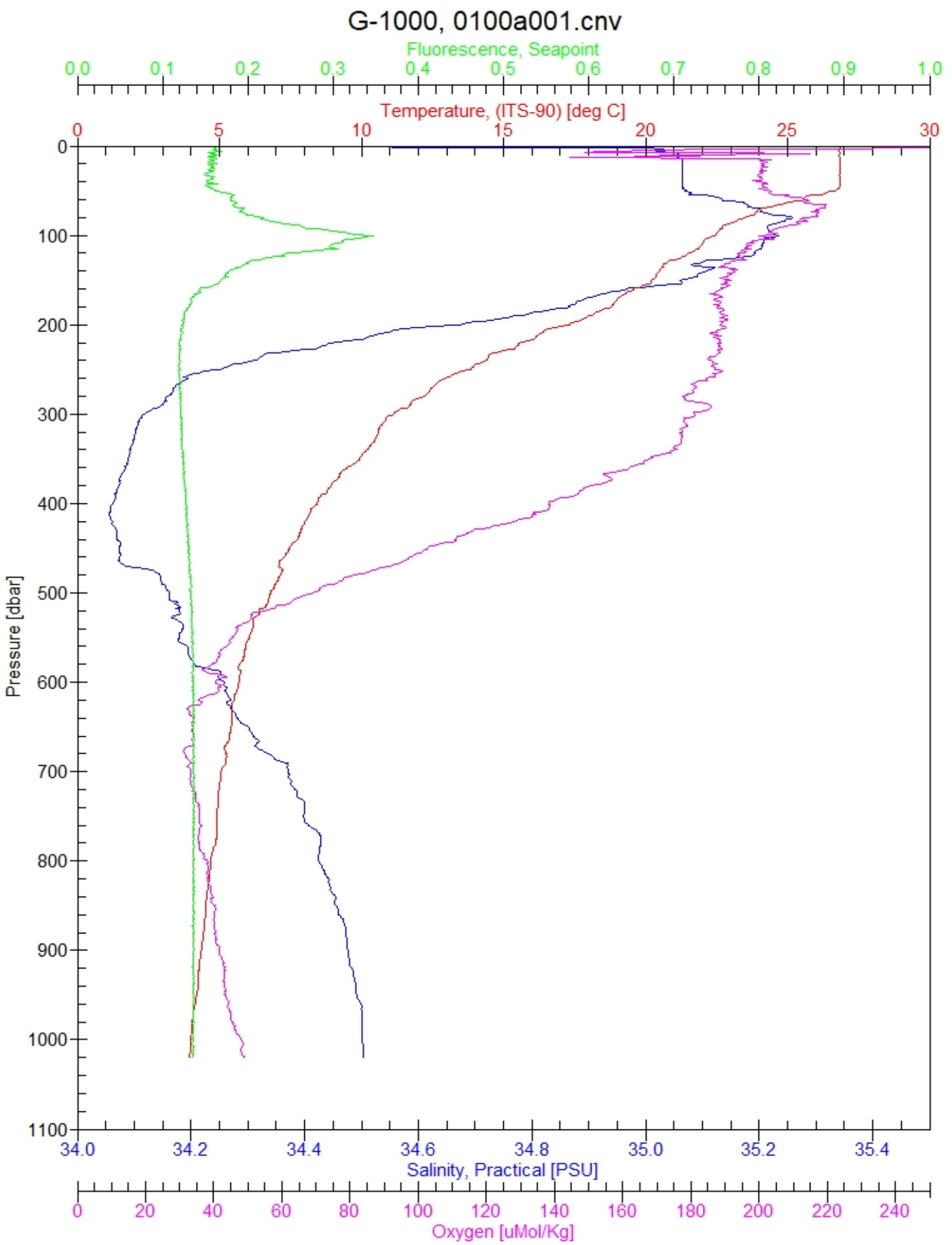

G-1000, 0050a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

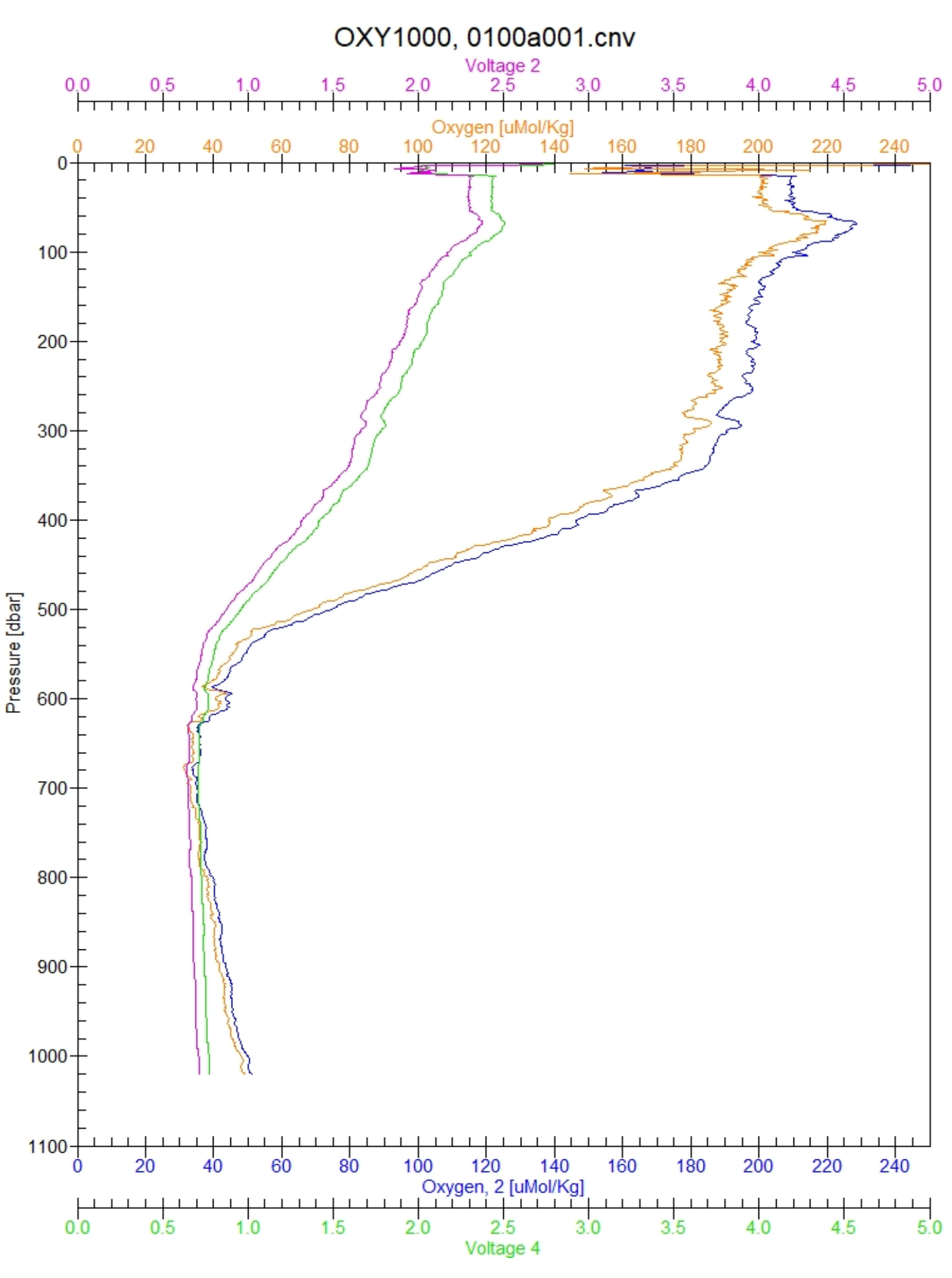

OXY1000, 0050a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

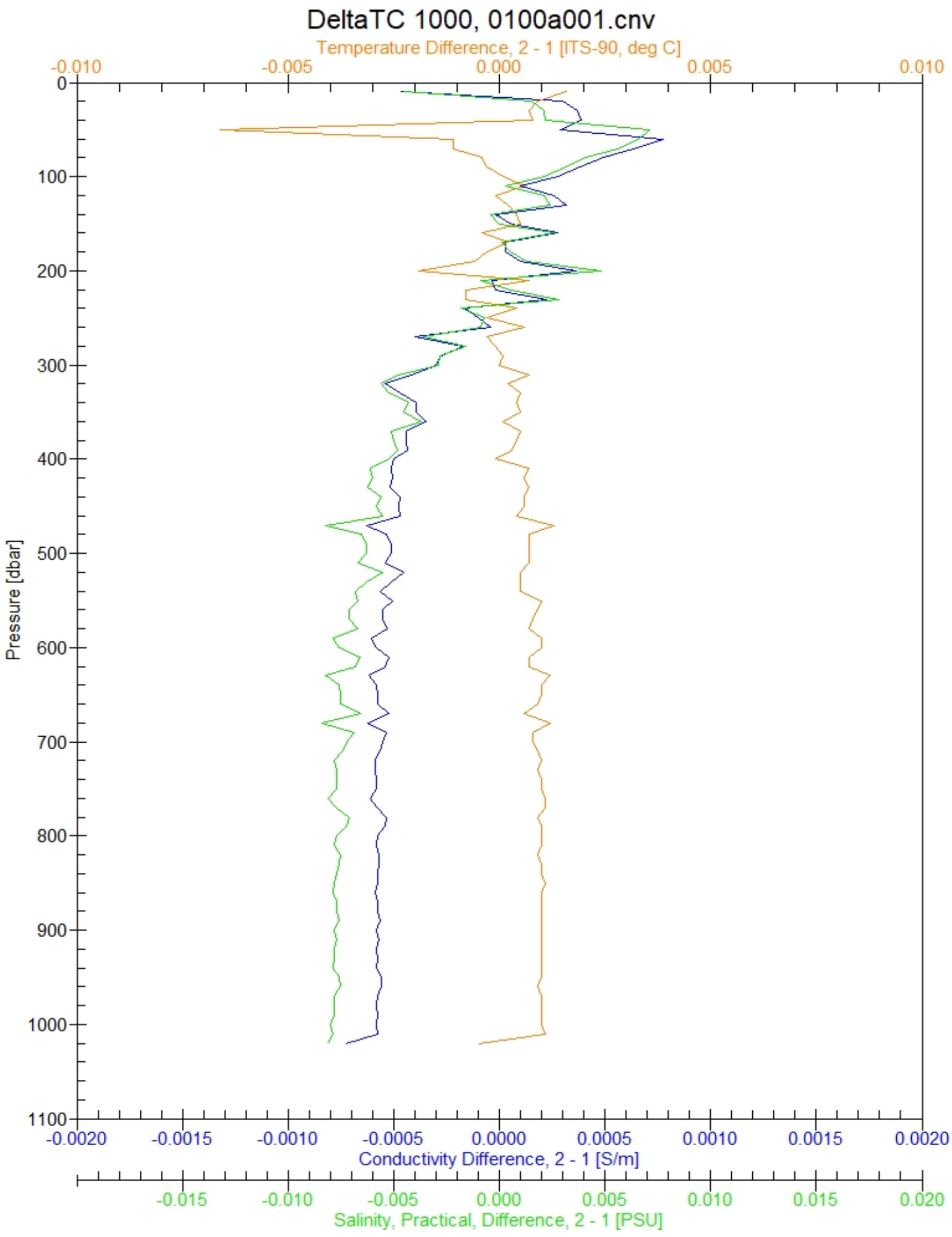

DeltaTC 1000, 0050a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

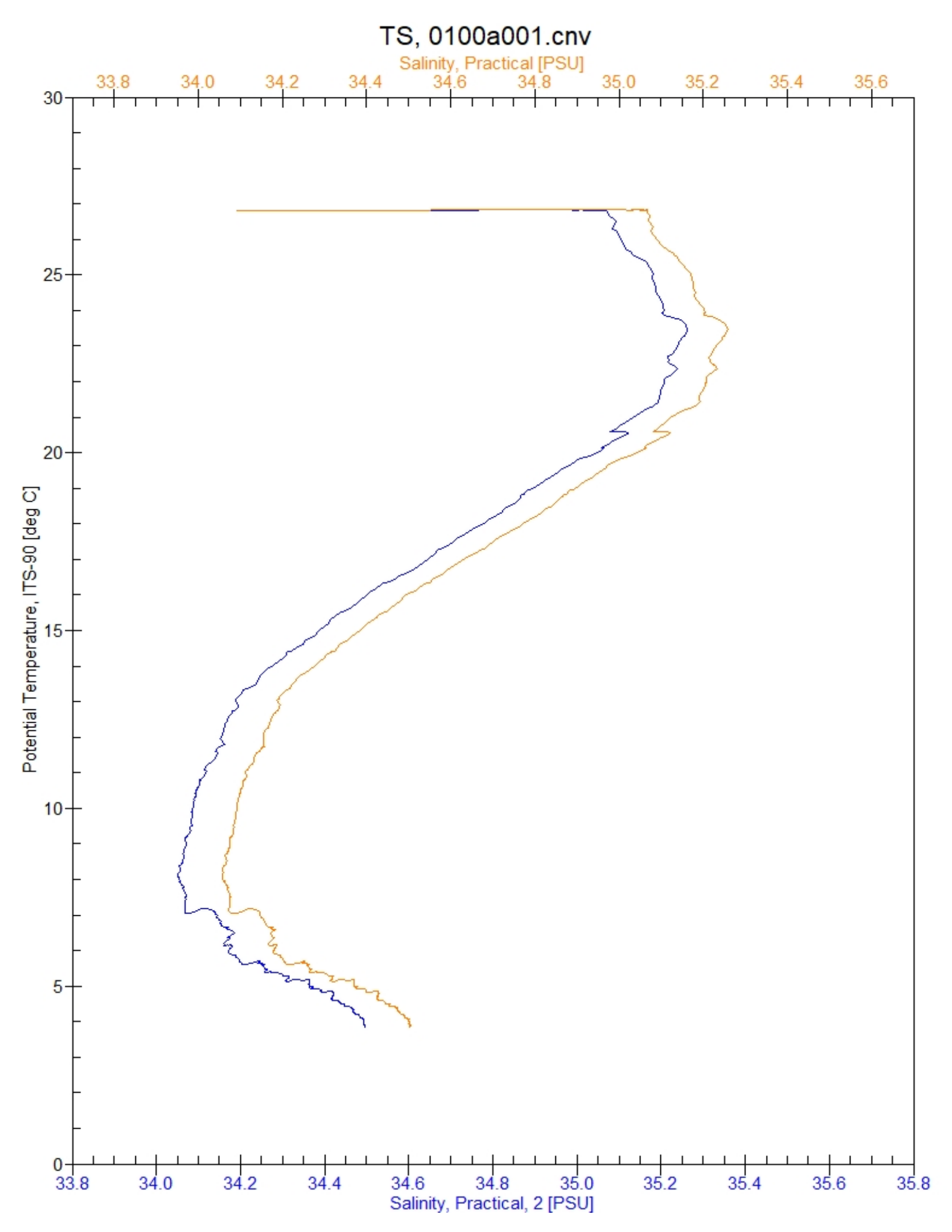

TS, 0050a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

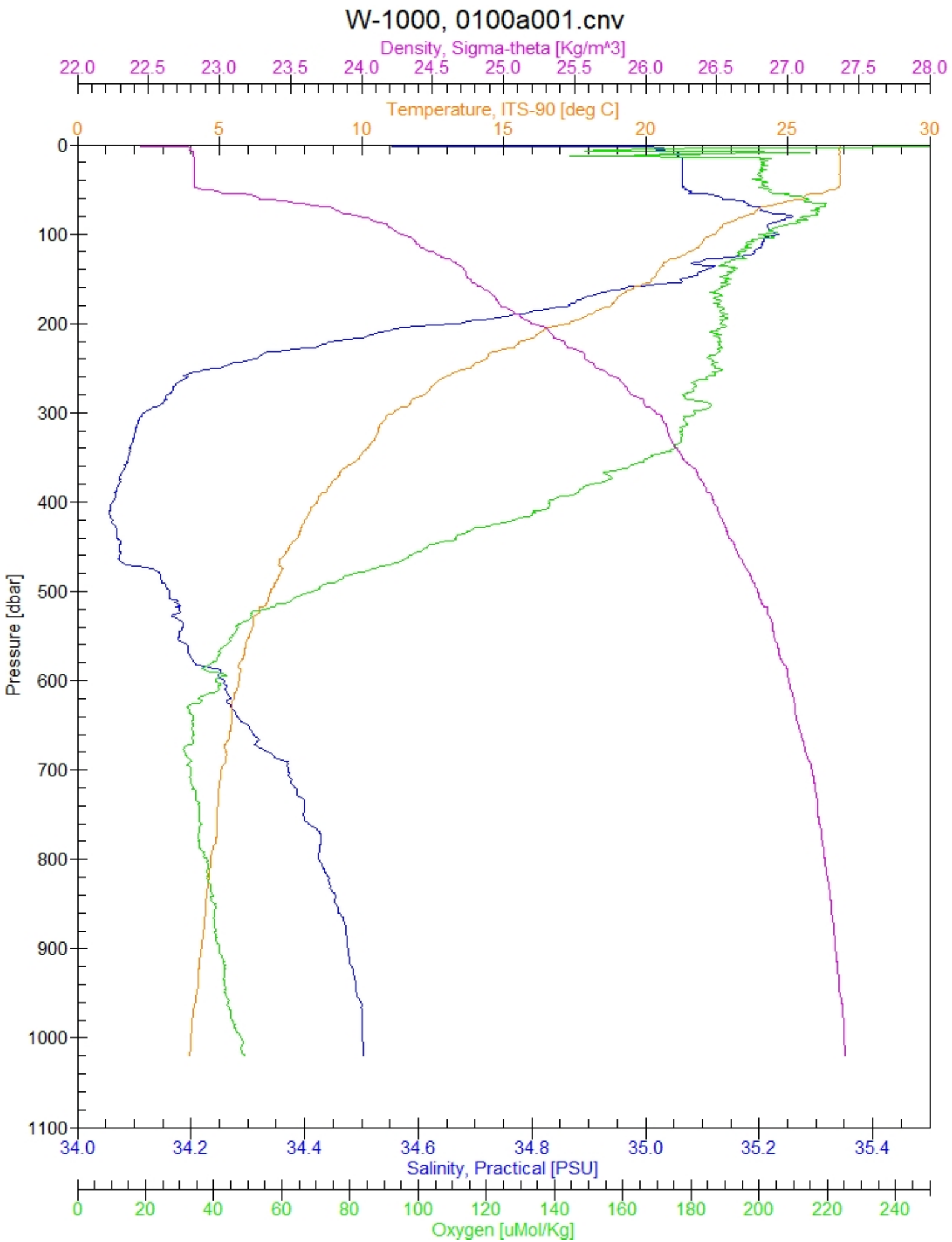

W-1000, 0050a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Salinity, Practical [PSU]
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240

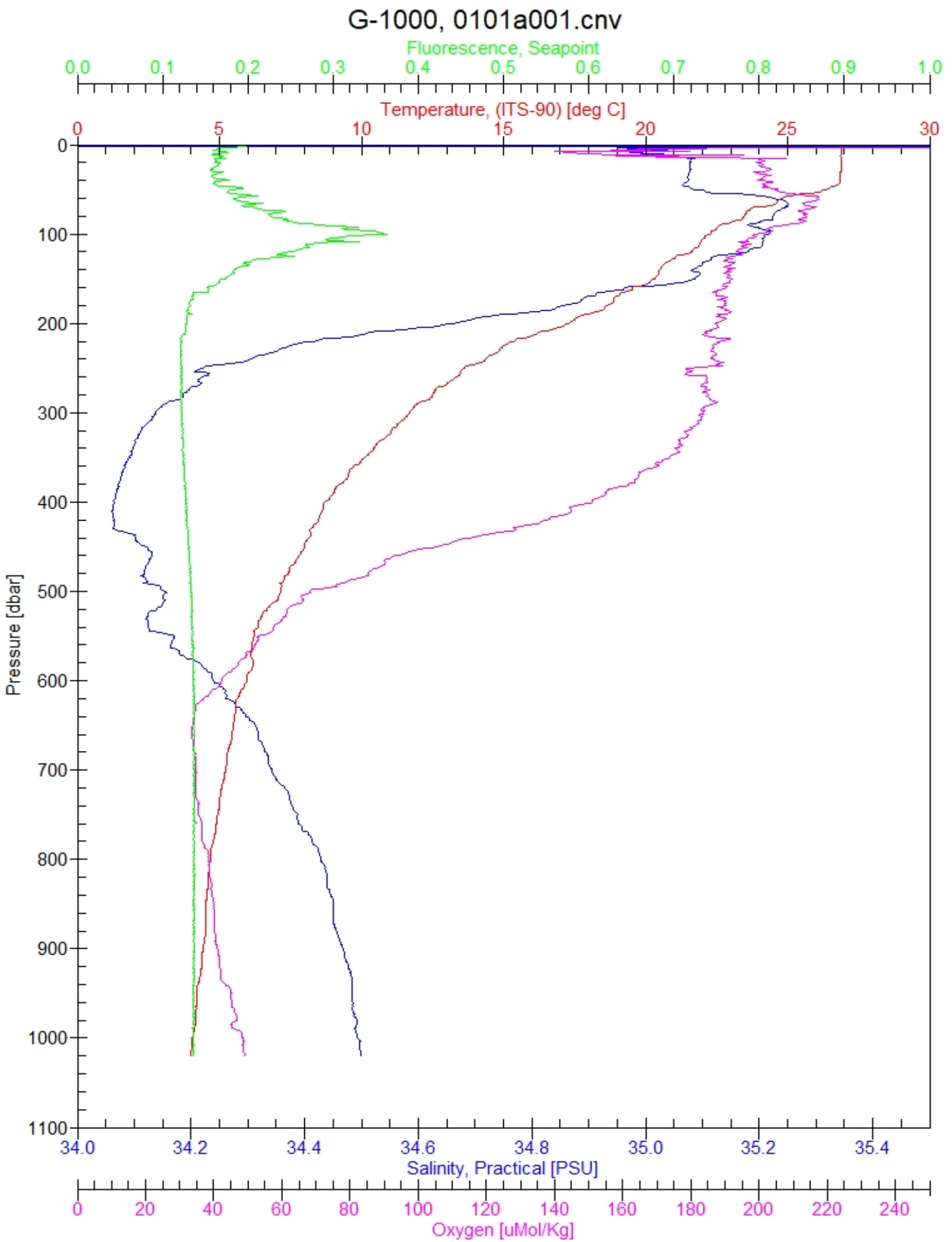

G-1000, 0100a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

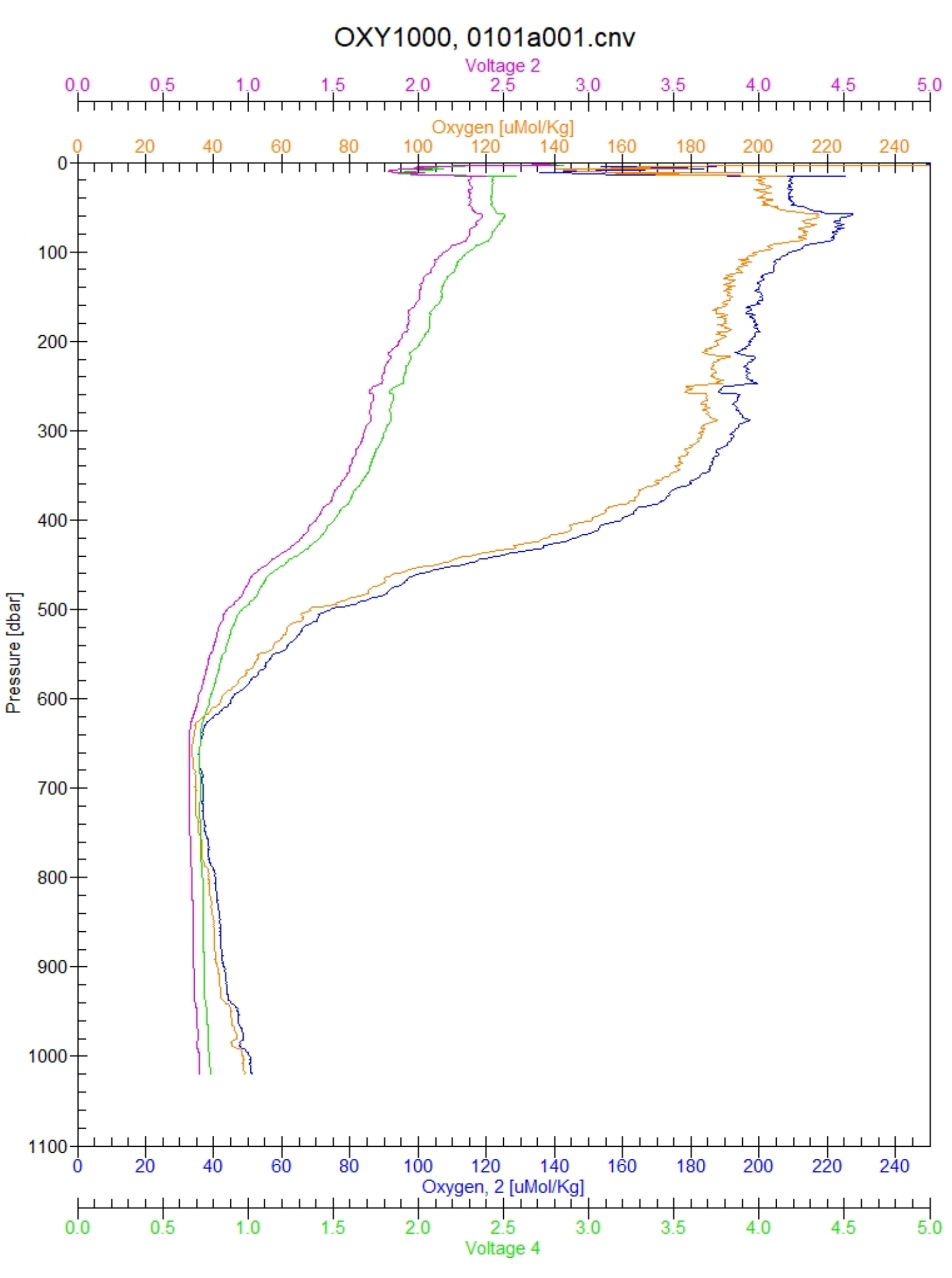

OXY1000, 0100a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

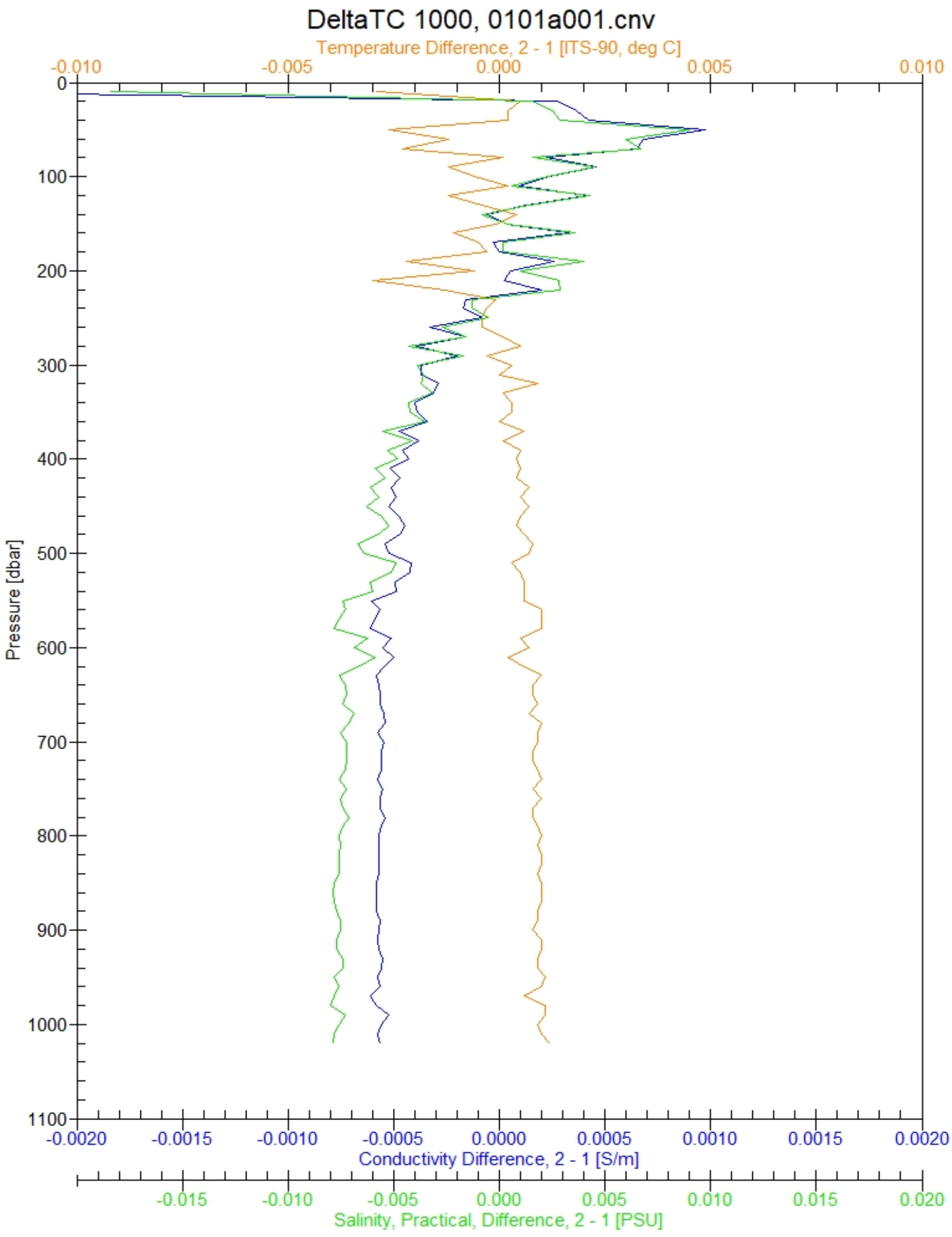

DeltaTC 1000, 0100a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

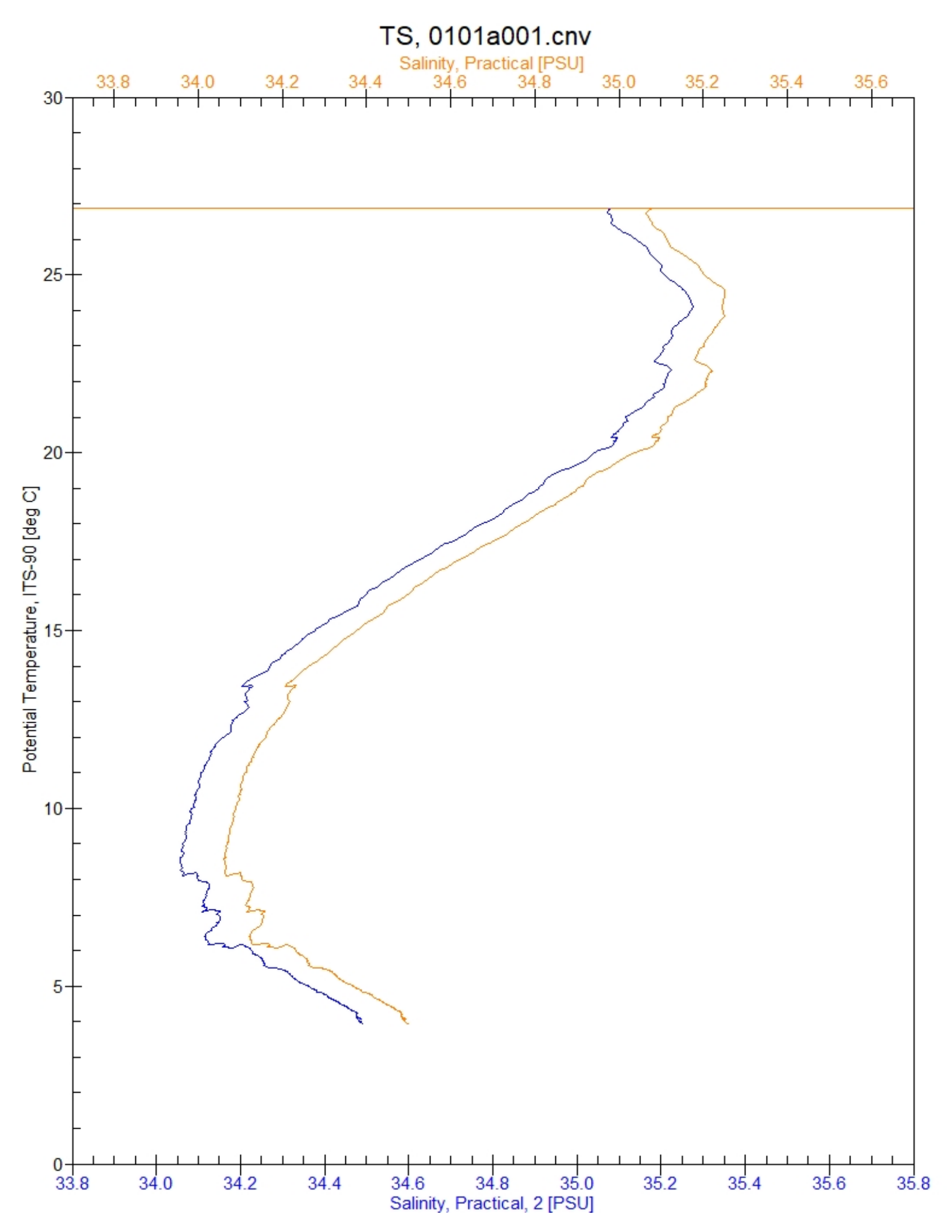

TS, 0100a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

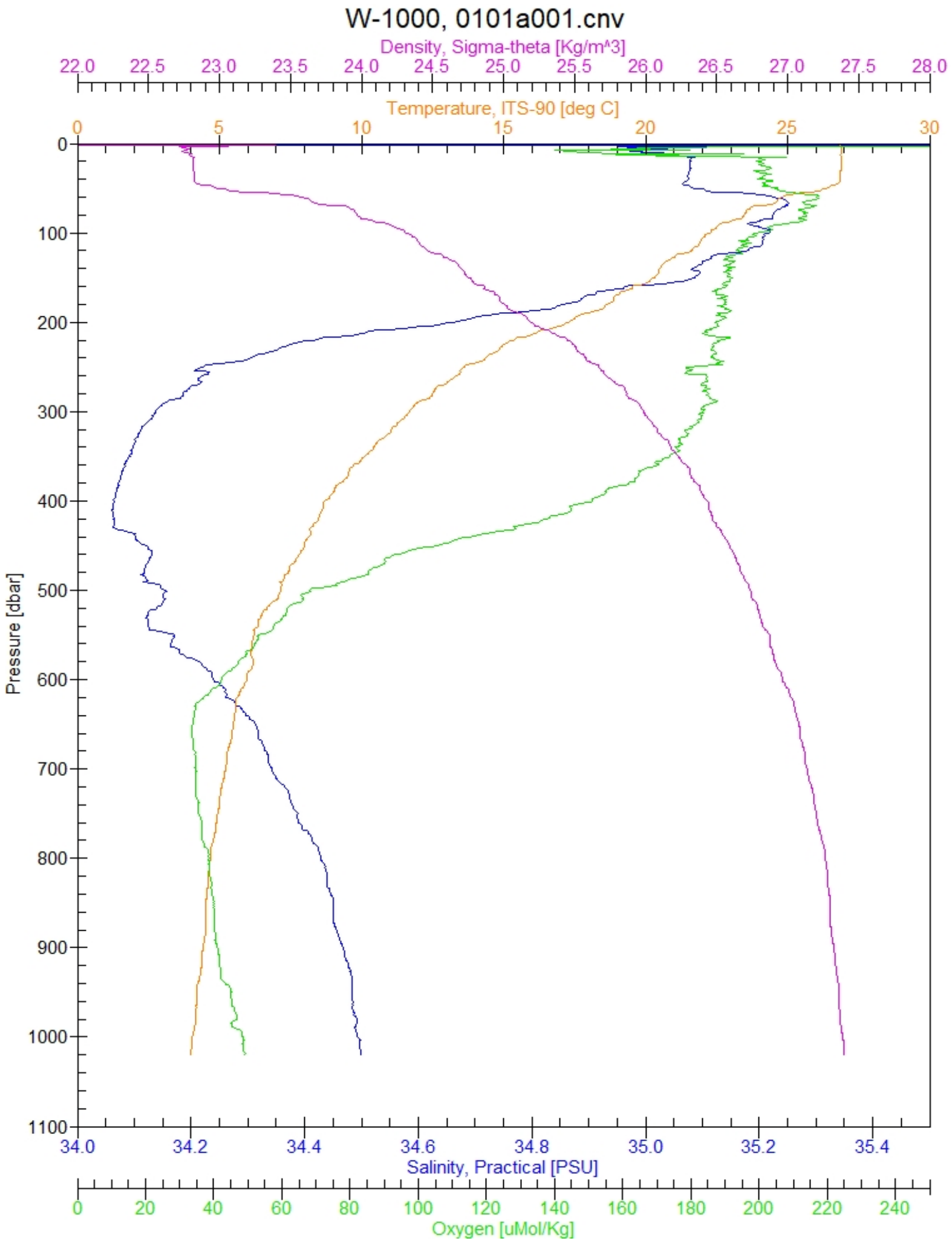

W-1000, 0100a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

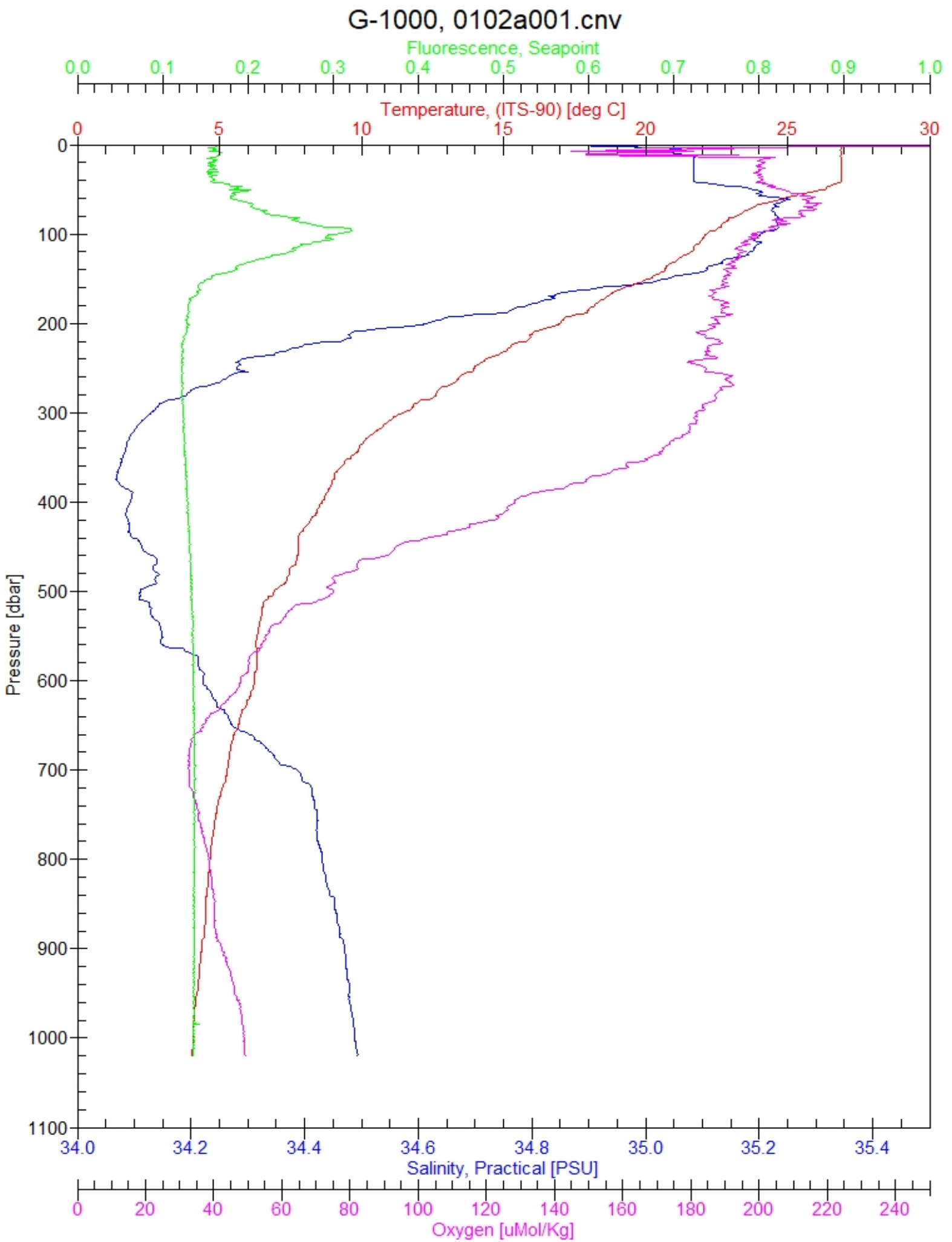

G-1000, 0101a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

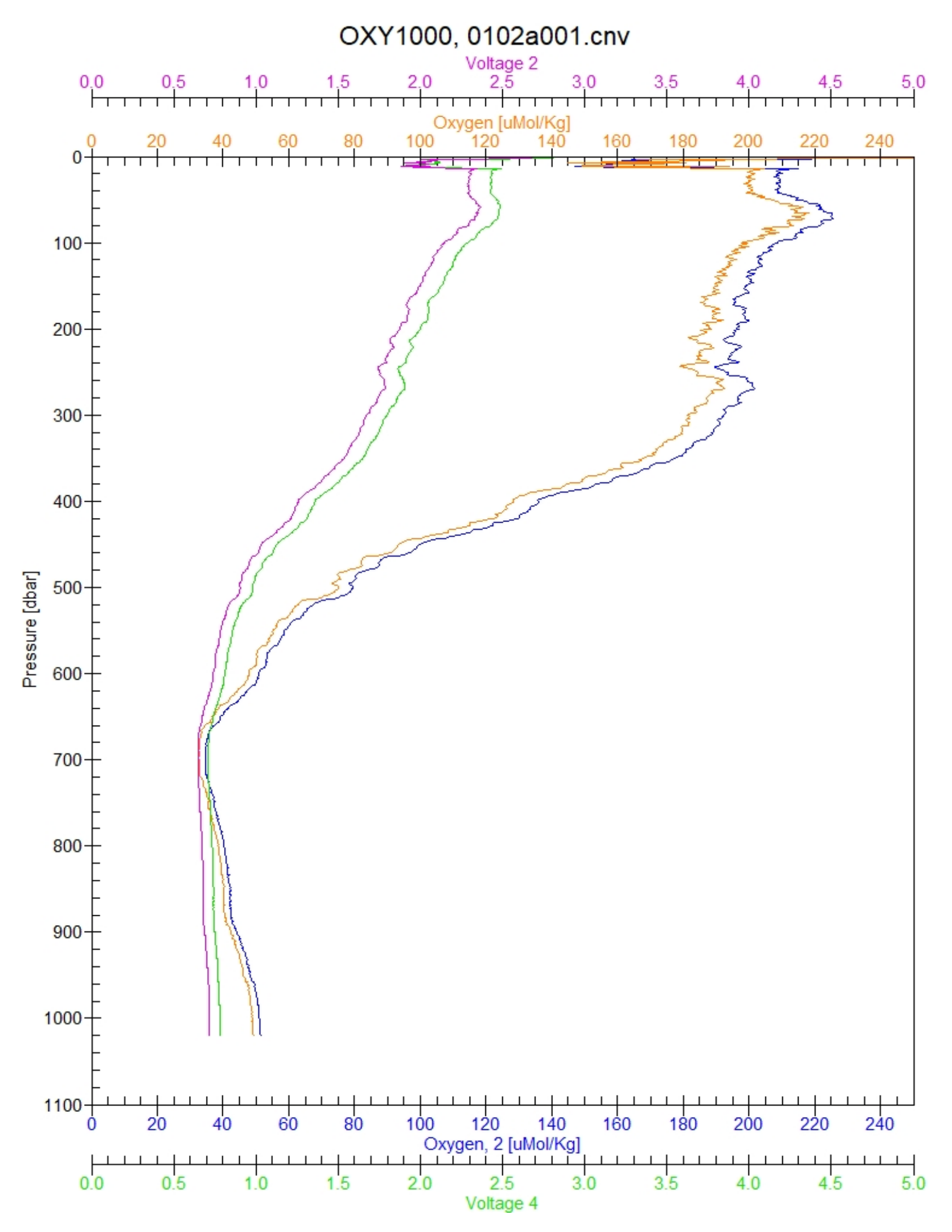

OXY1000, 0101a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

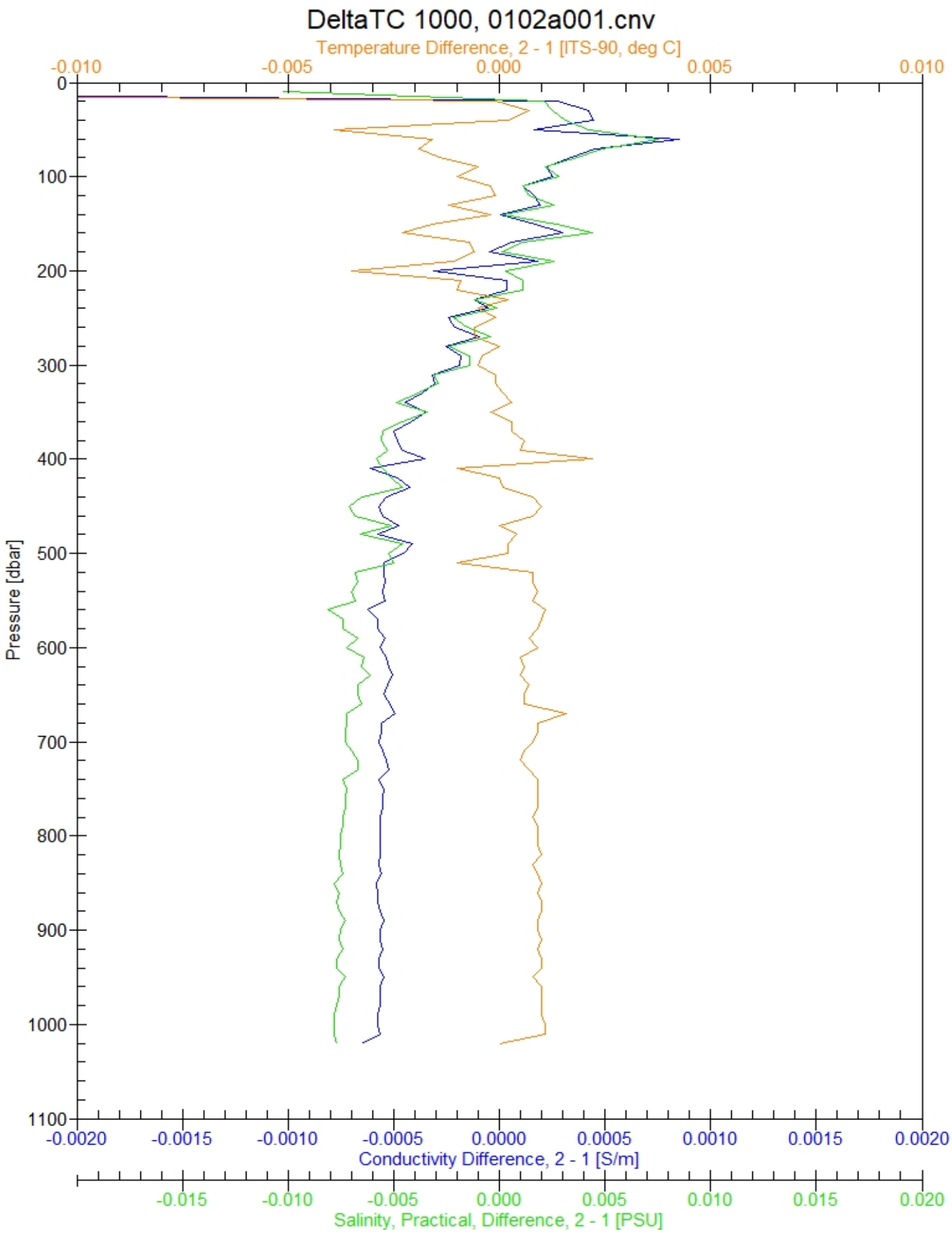

DeltaTC 1000, 0101a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

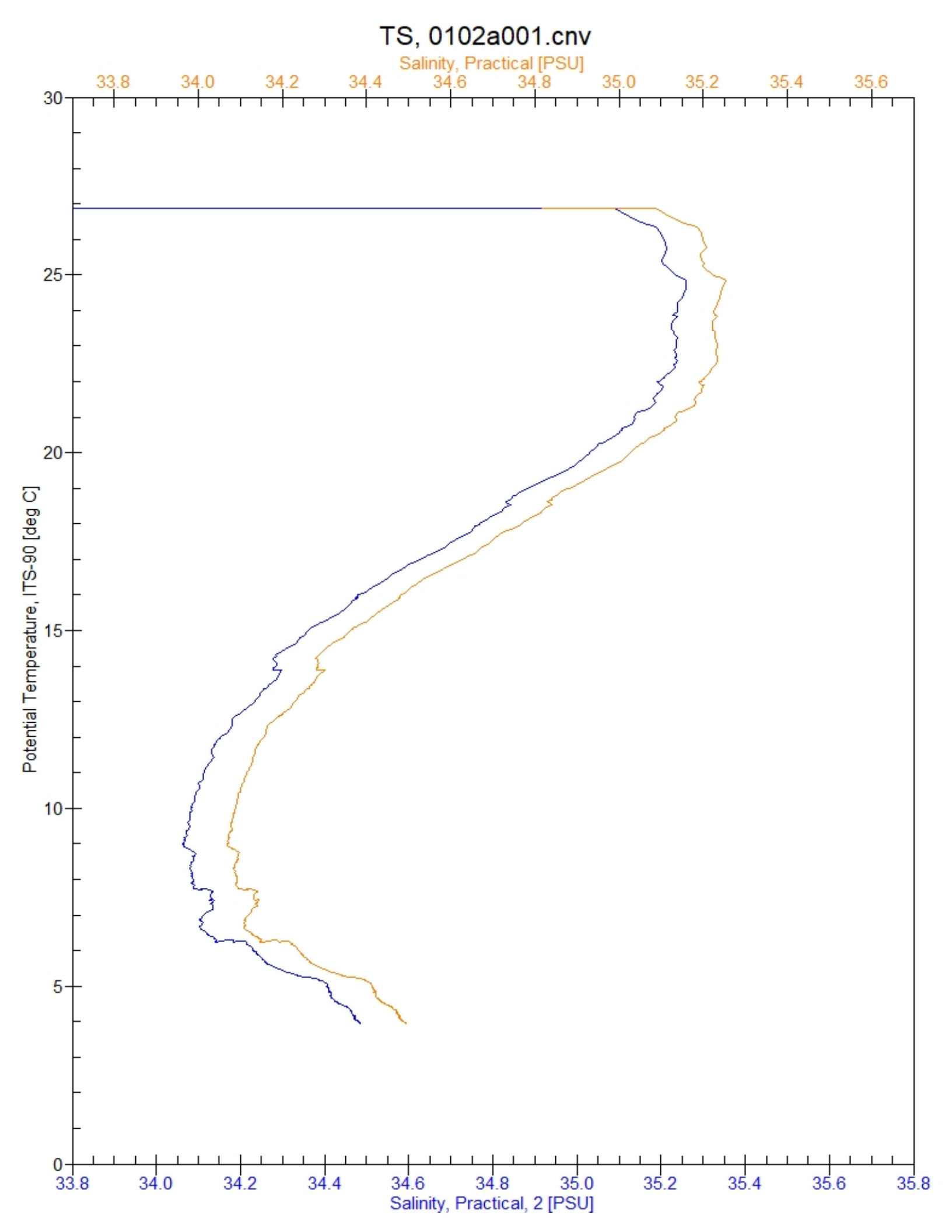

TS, 0101a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

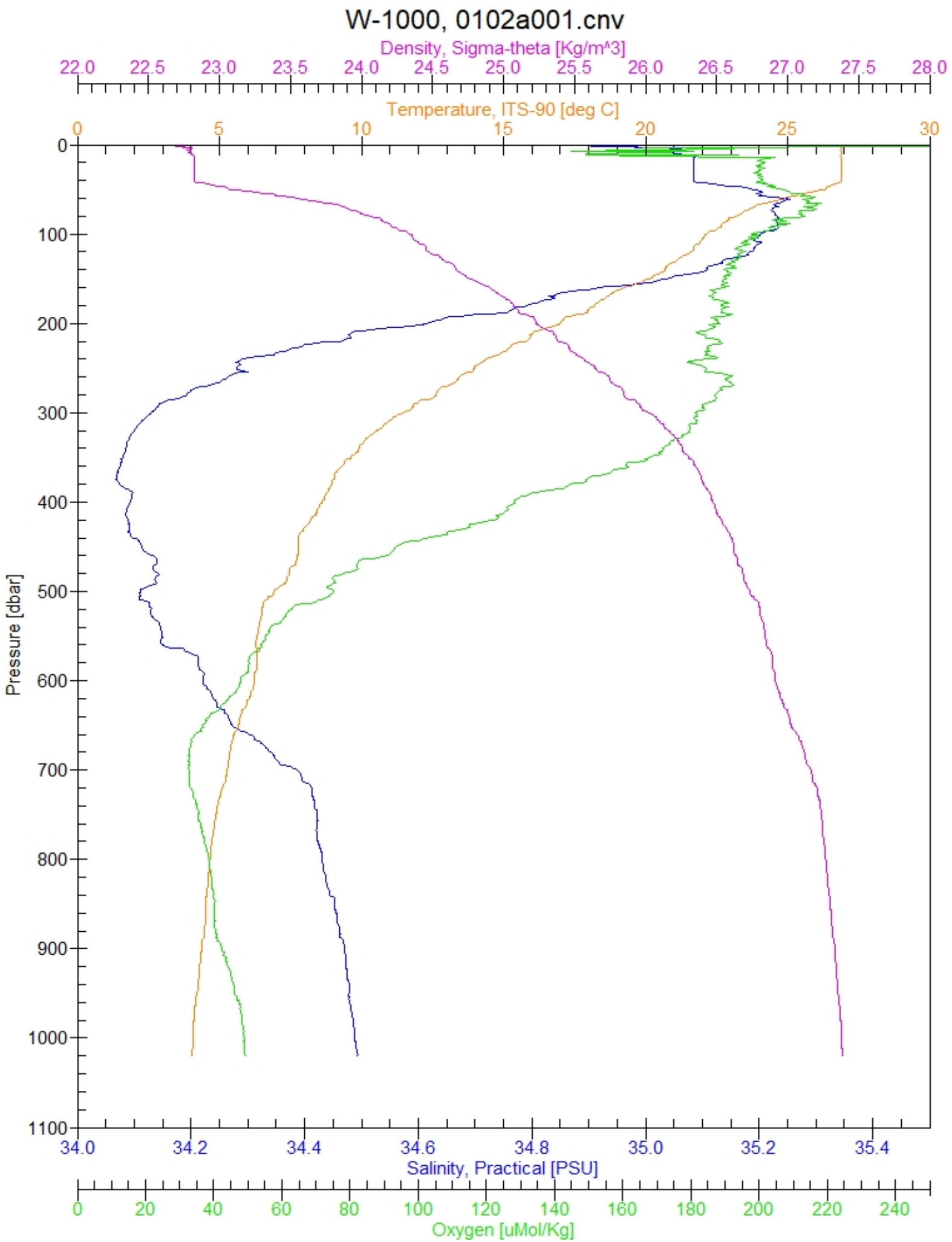

W-1000, 0101a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

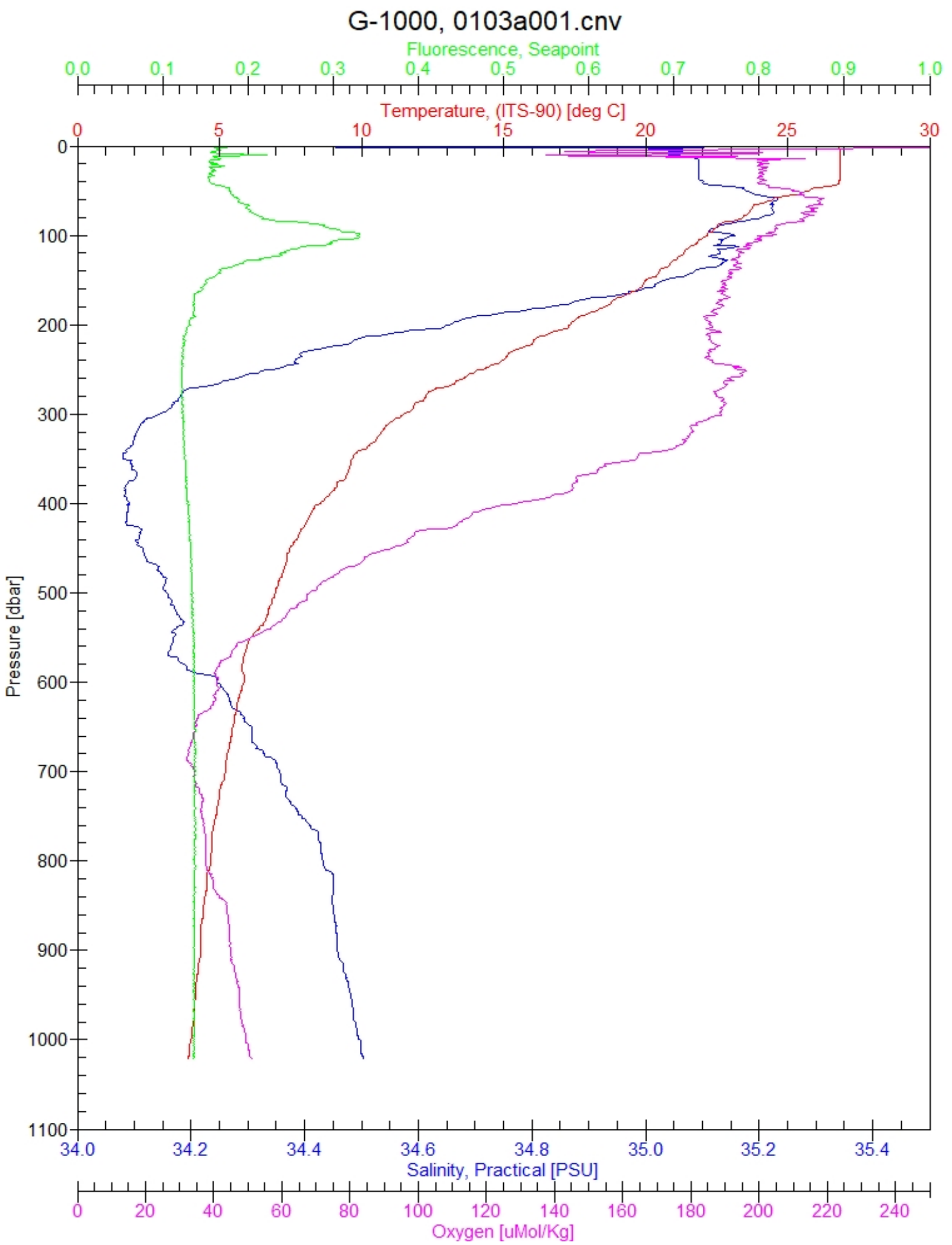

G-1000, 0102a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

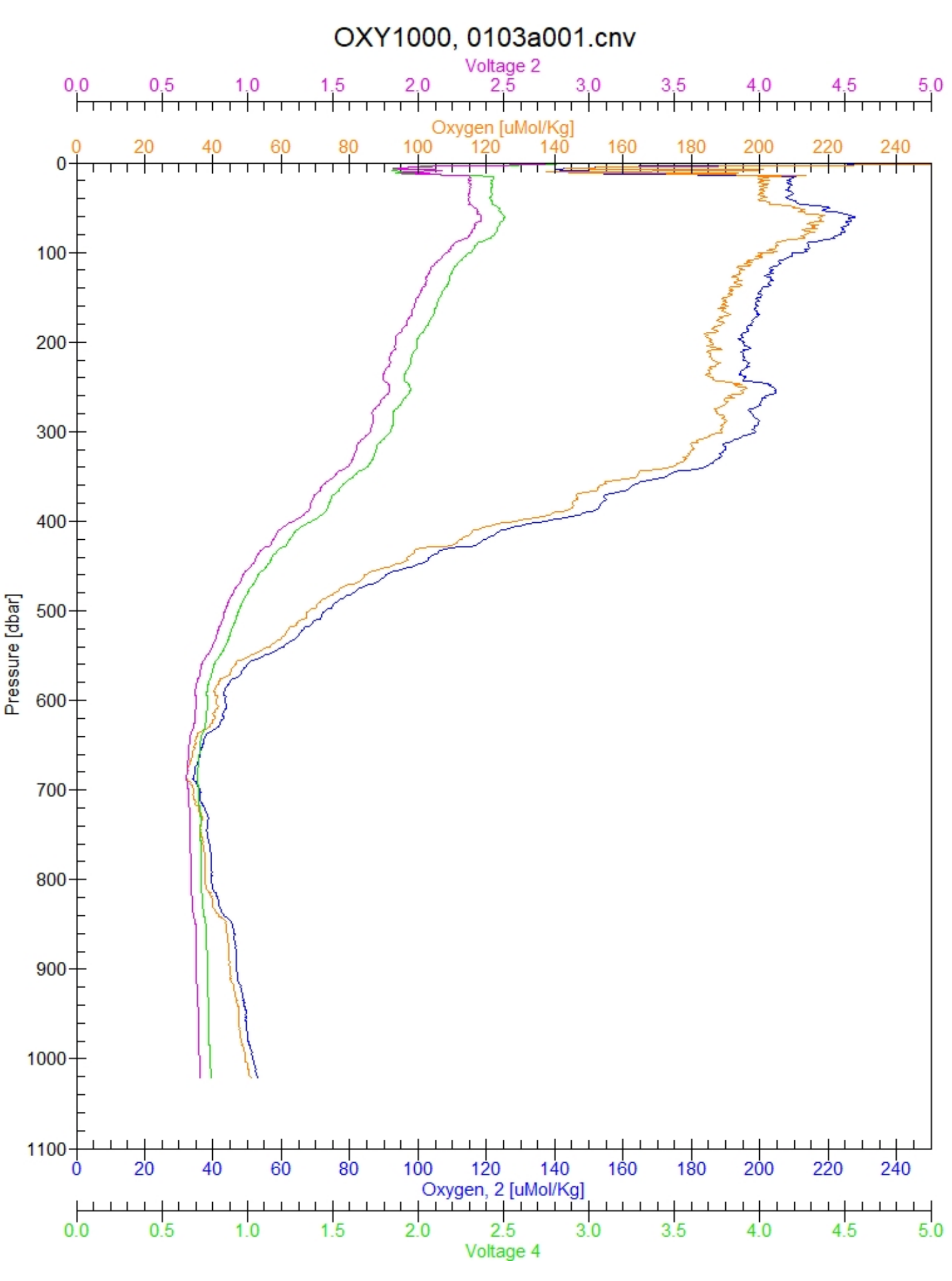

OXY1000, 0102a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

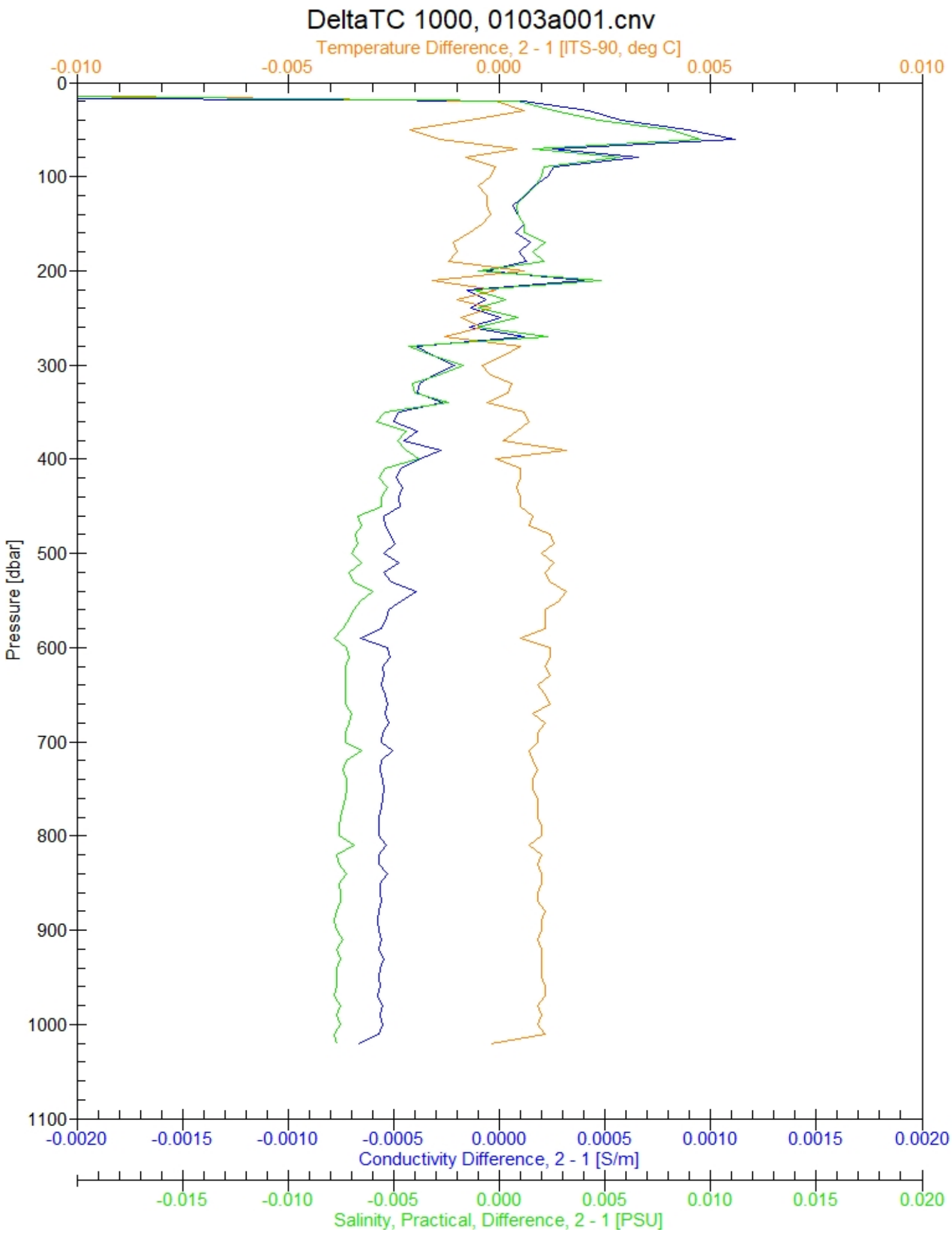

DeltaTC 1000, 0102a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

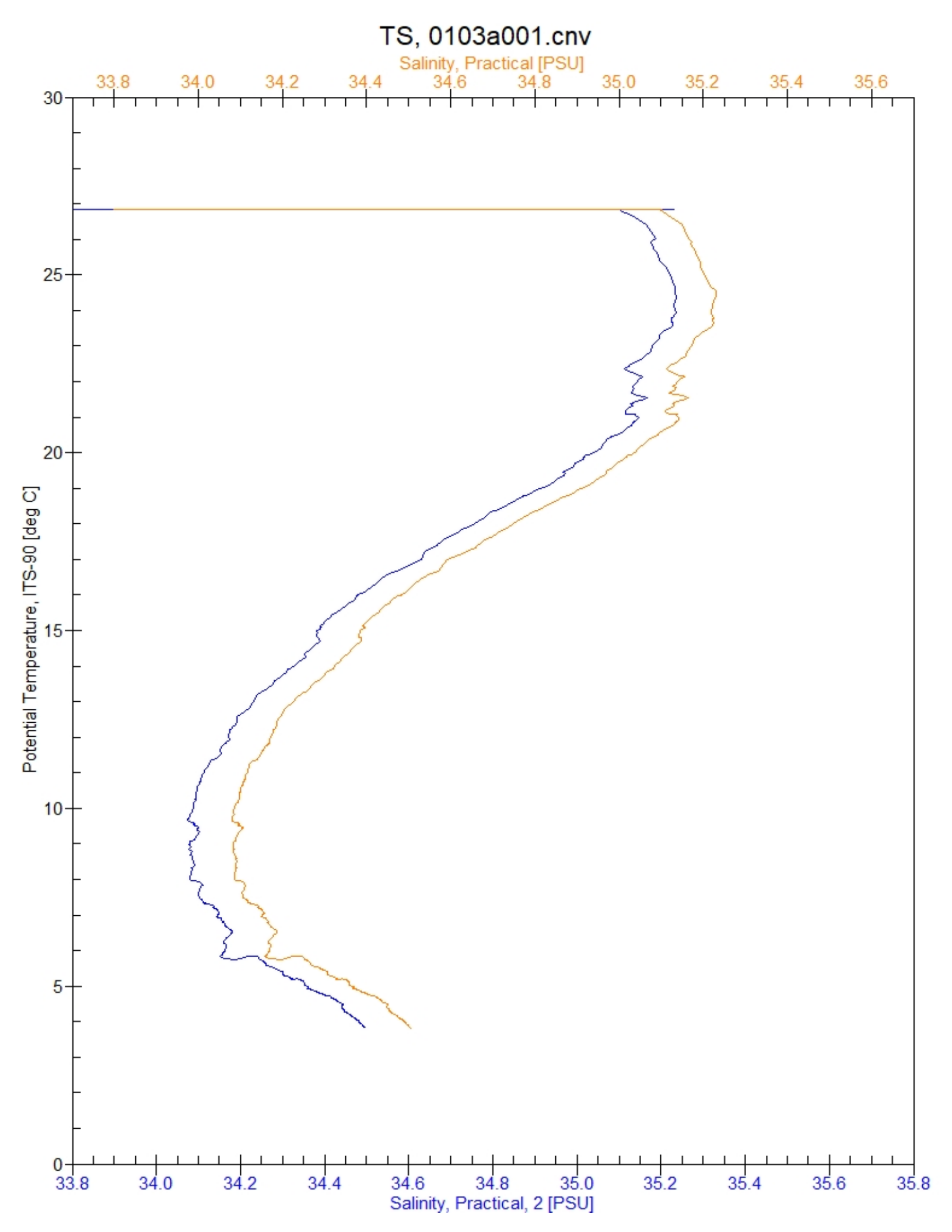

TS, 0102a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

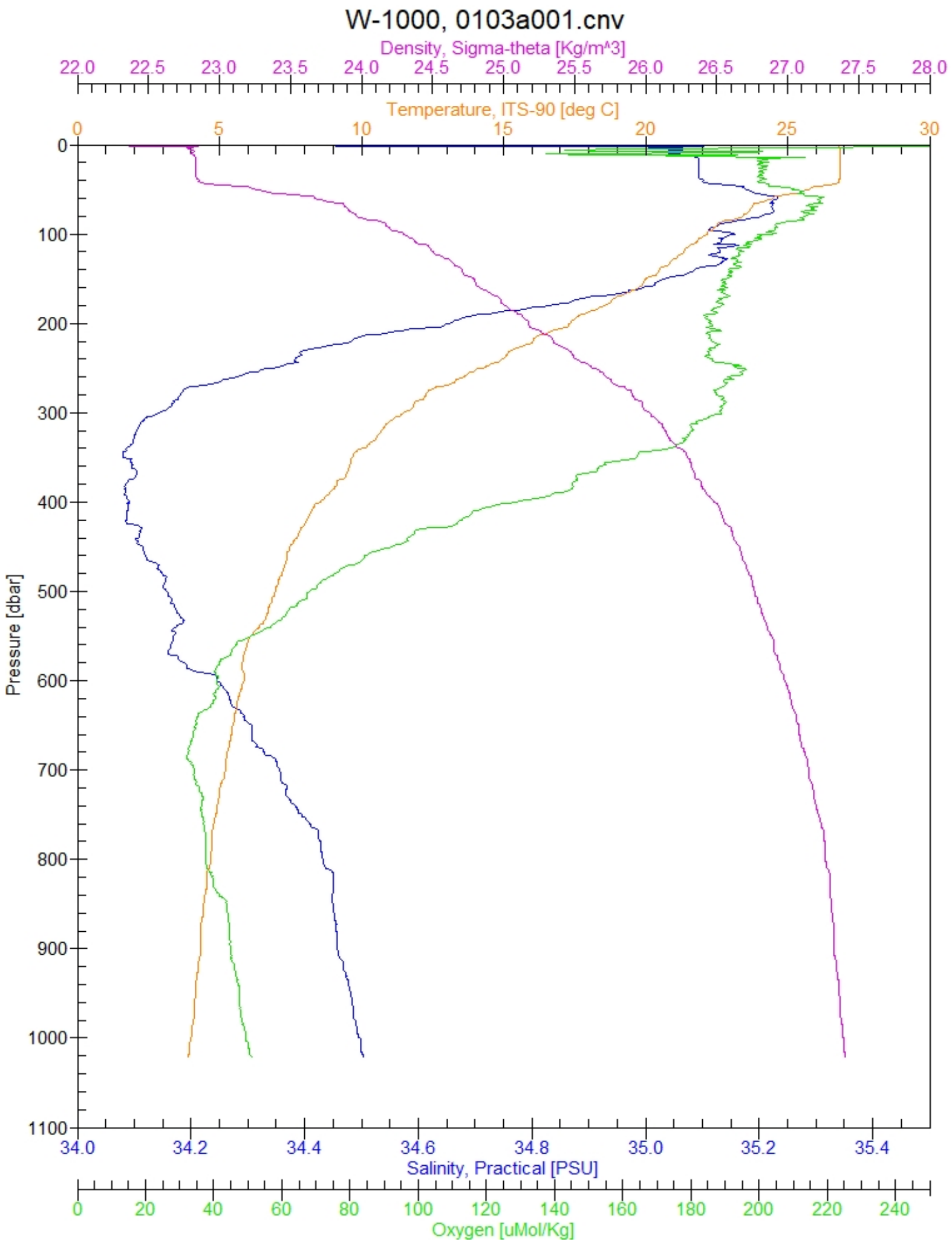

W-1000, 0102a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

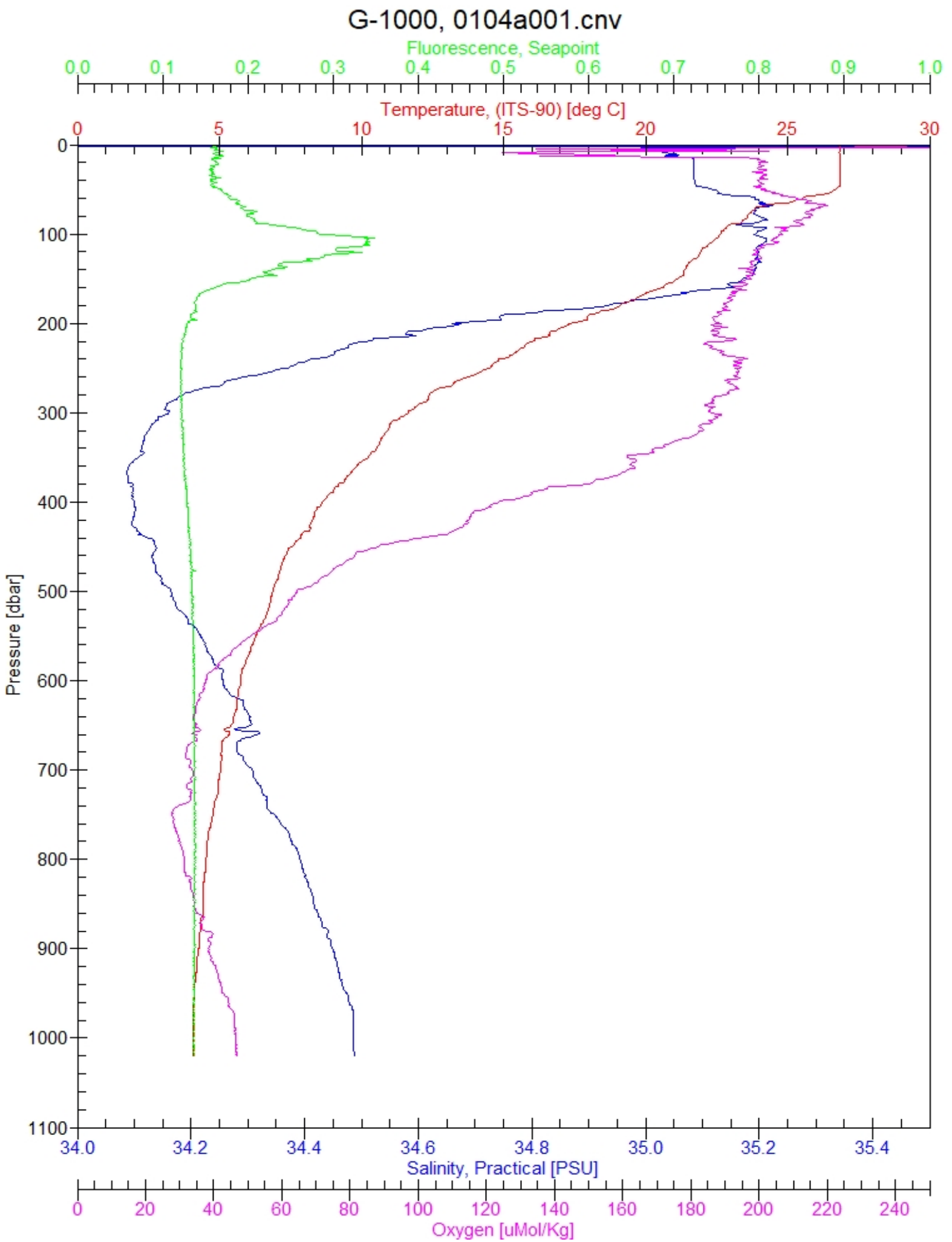

G-1000, 0103a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

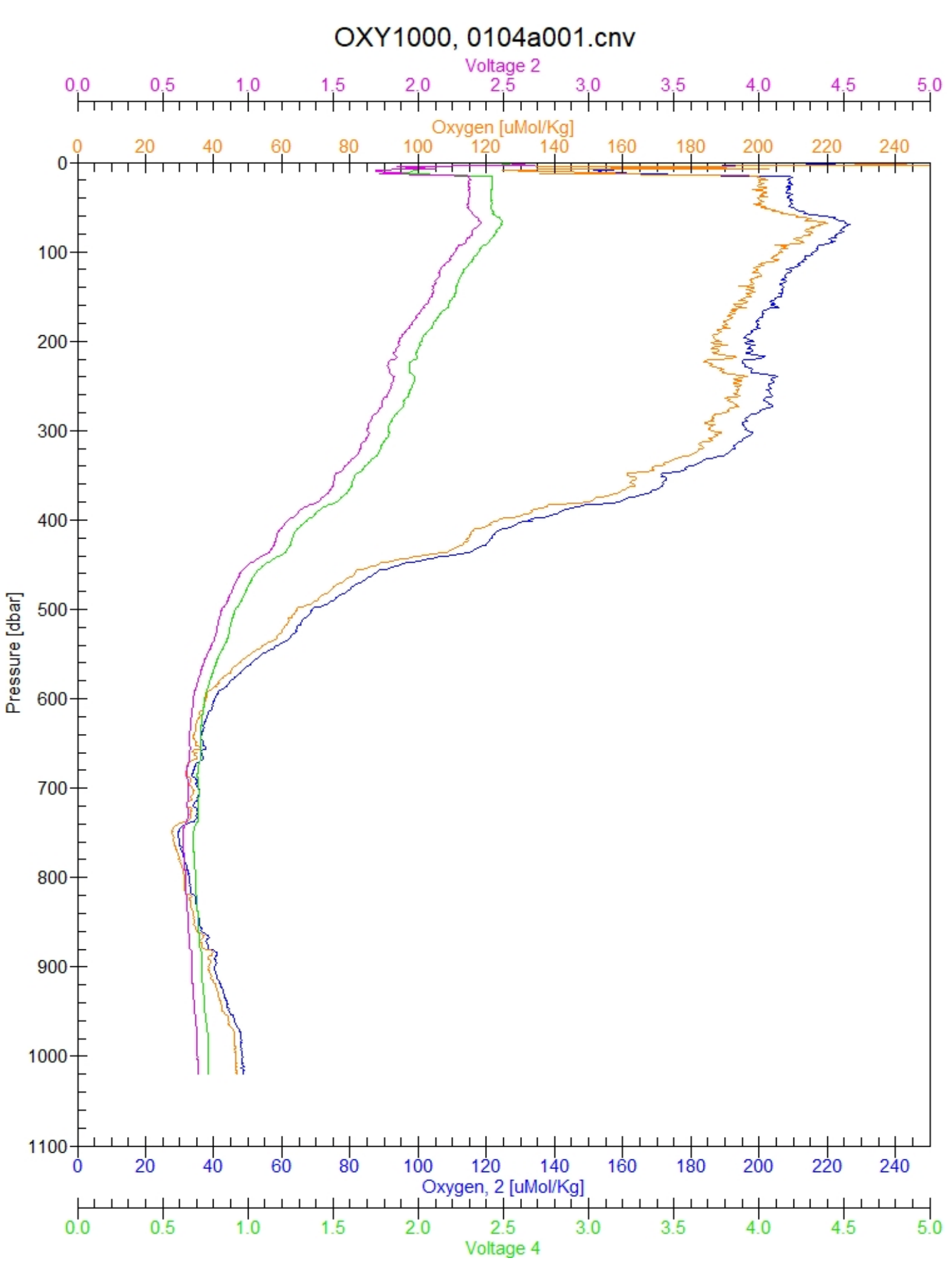

OXY1000, 0103a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

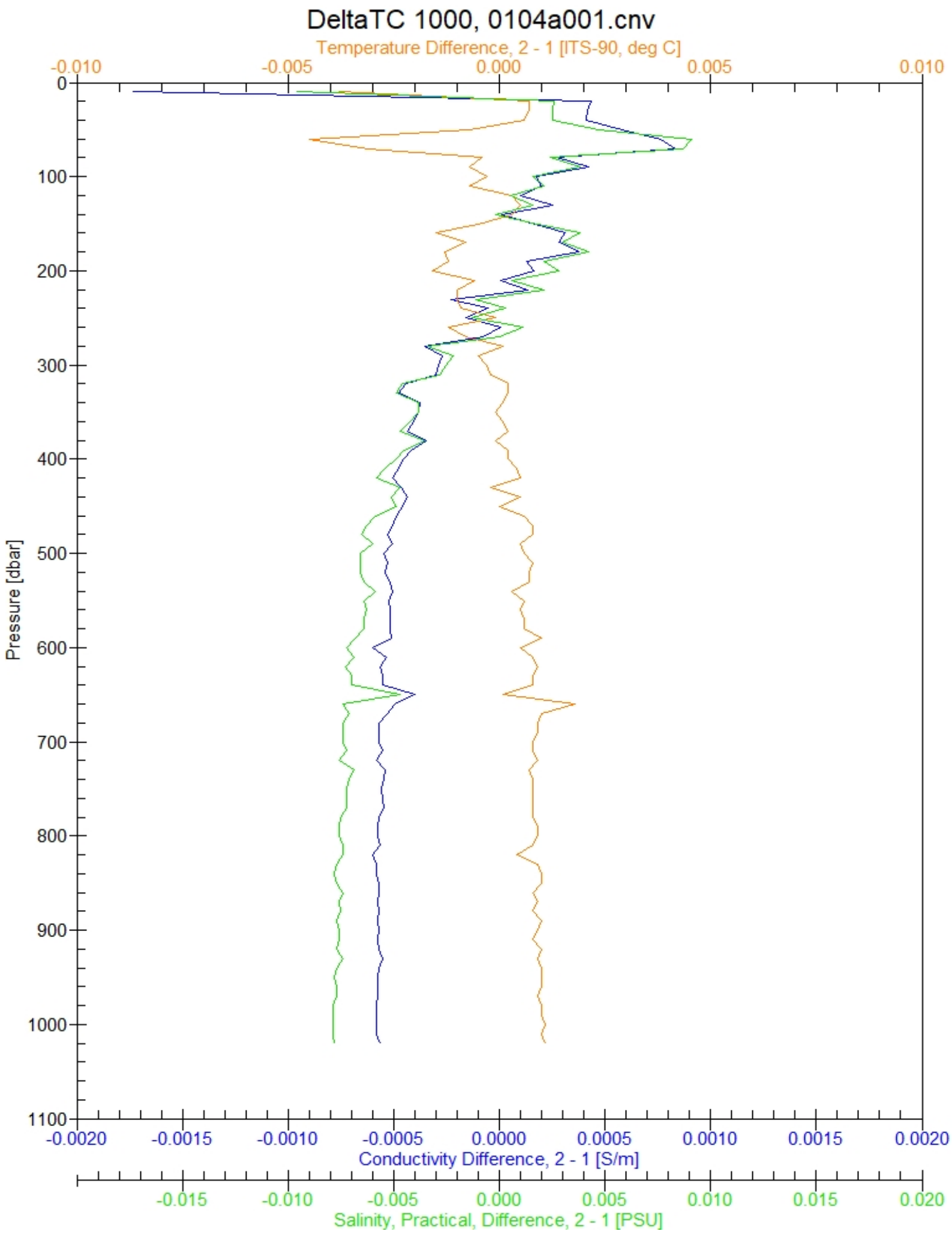

DeltaTC 1000, 0103a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

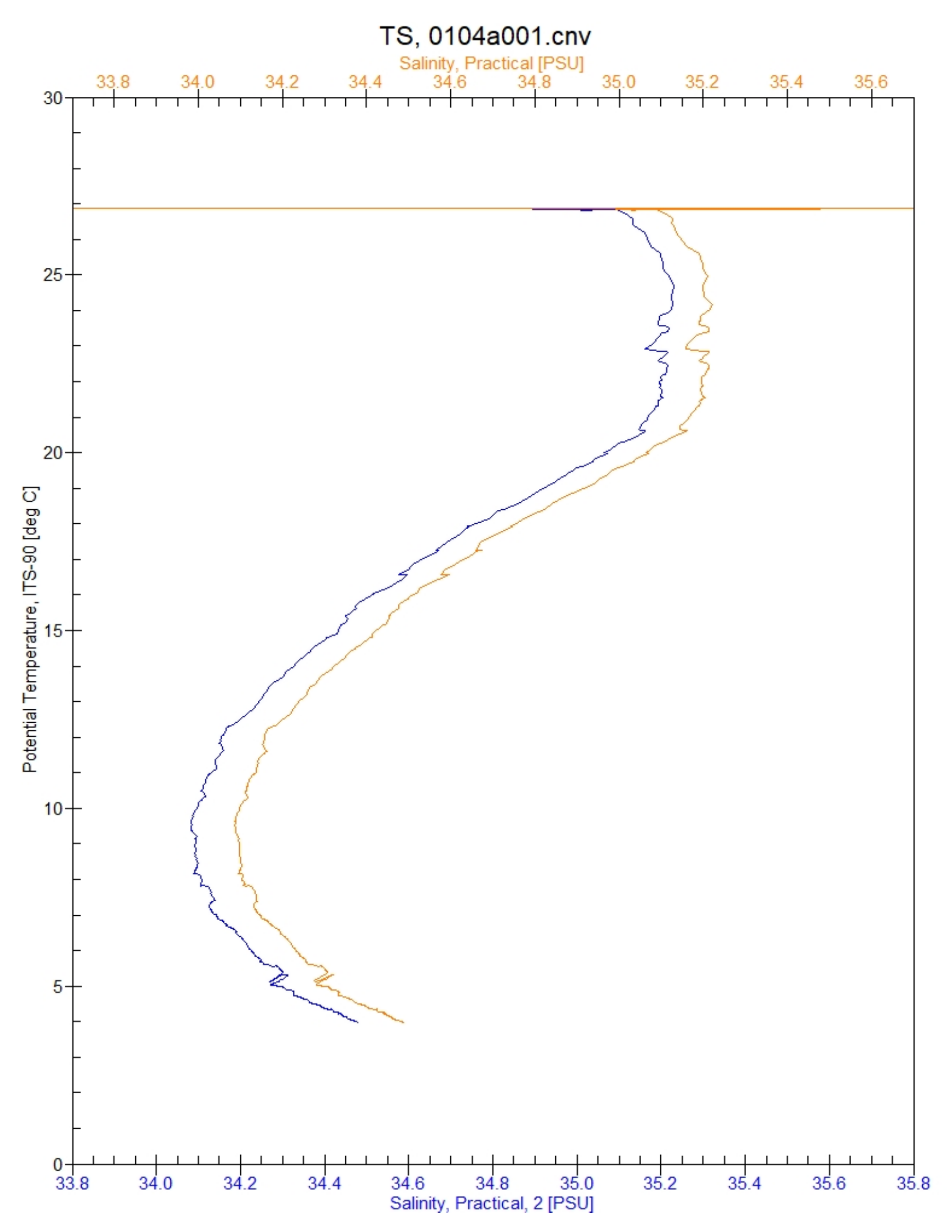

TS, 0103a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

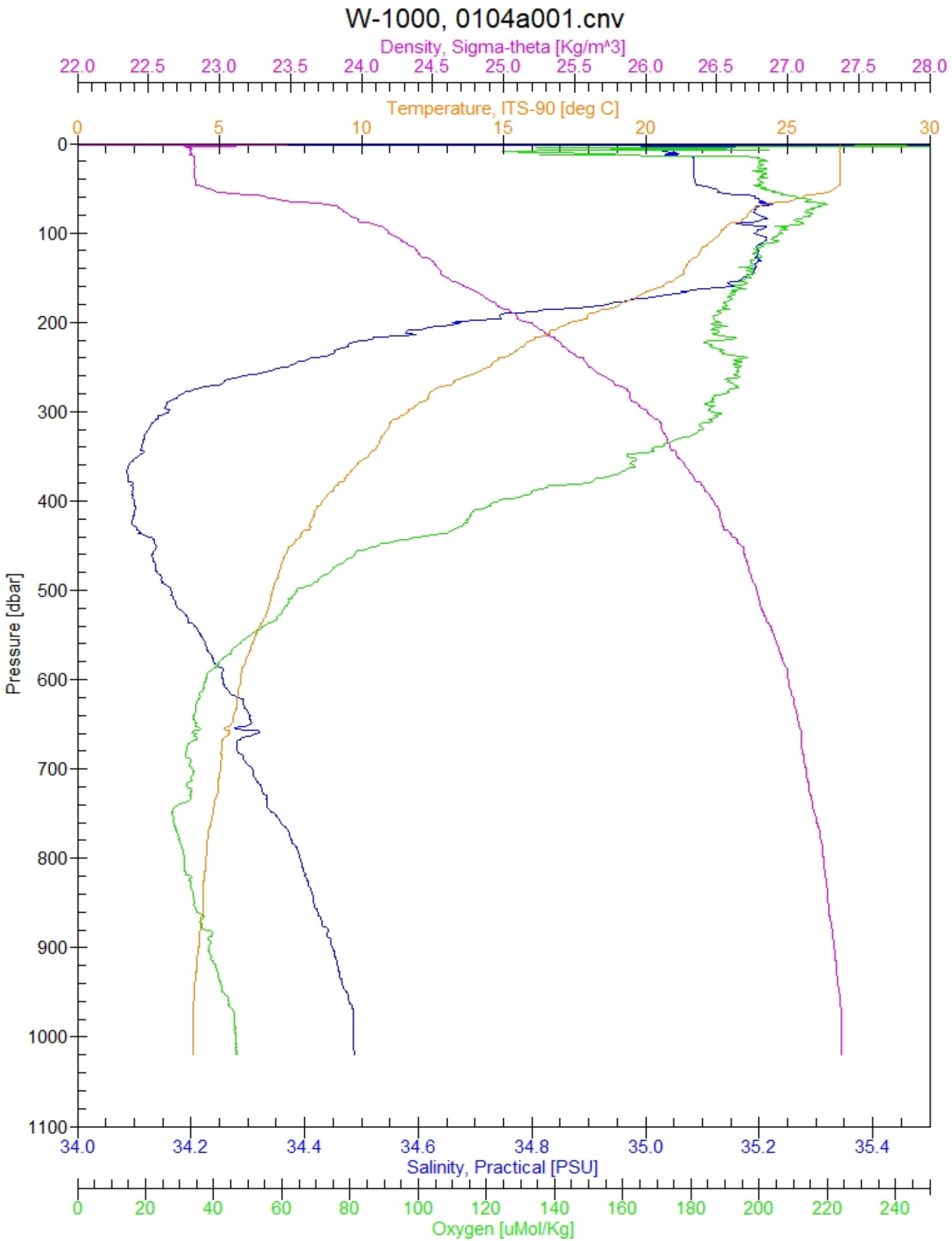

W-1000, 0103a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

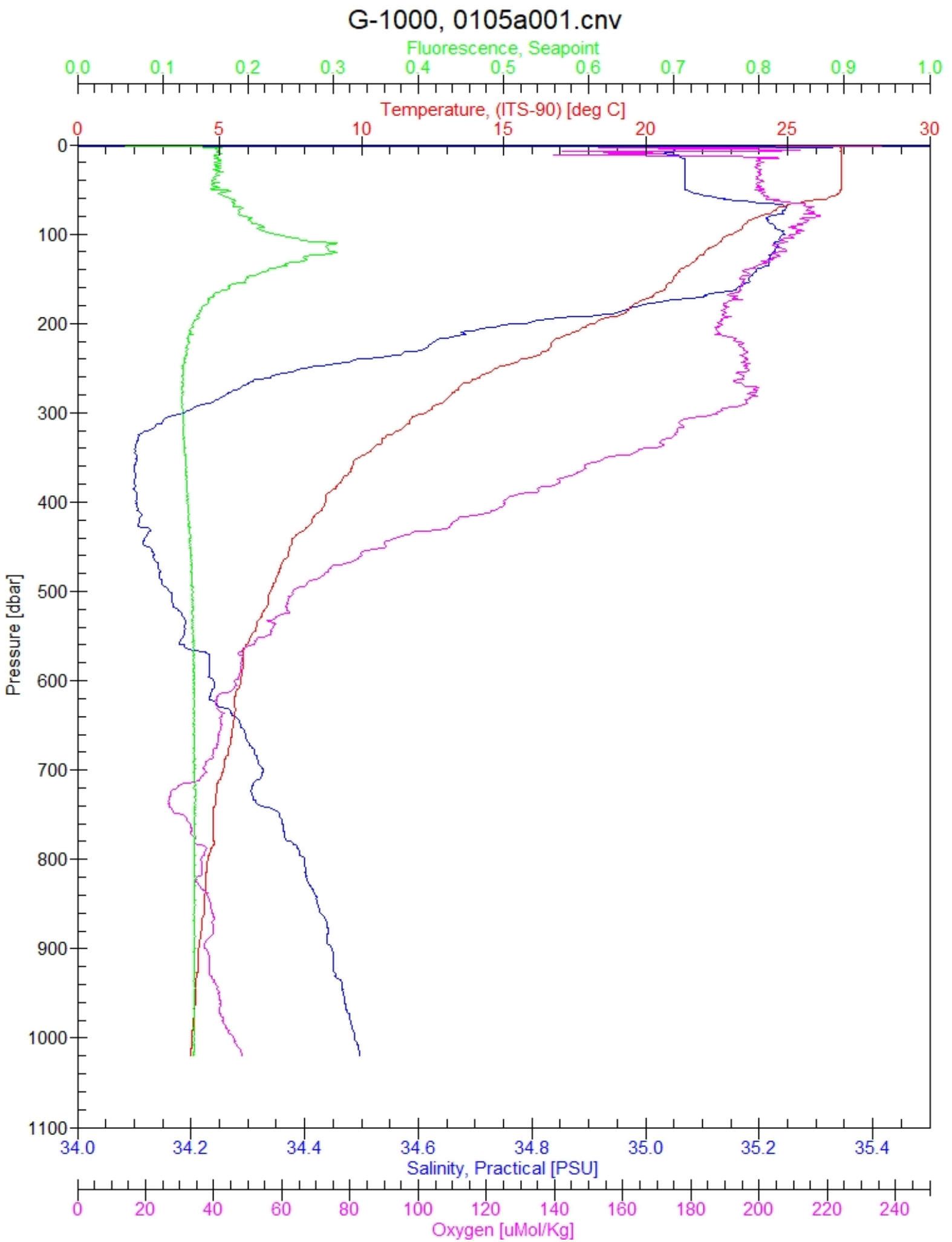

G-1000, 0104a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

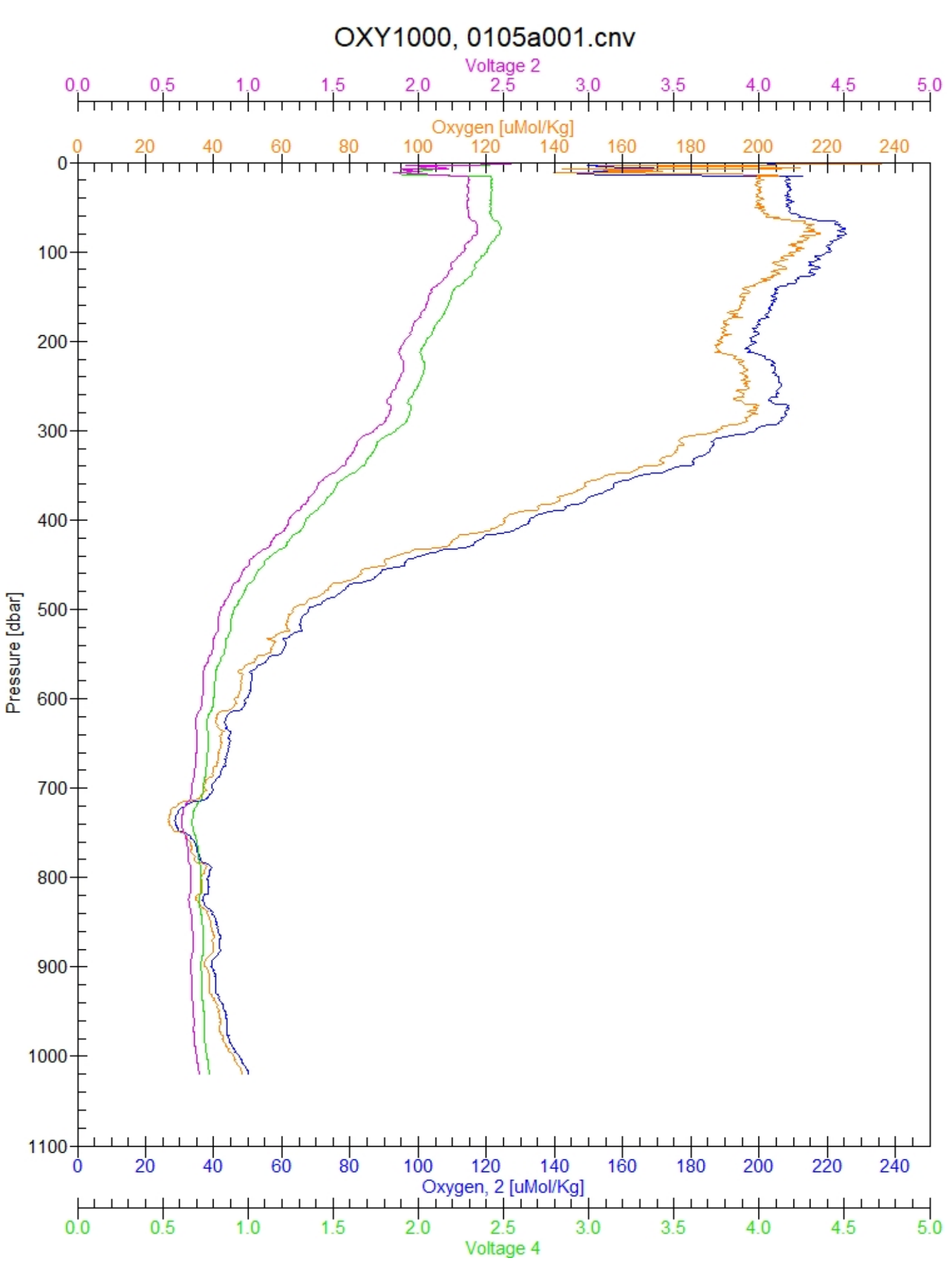

OXY1000, 0104a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Voltage 4
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

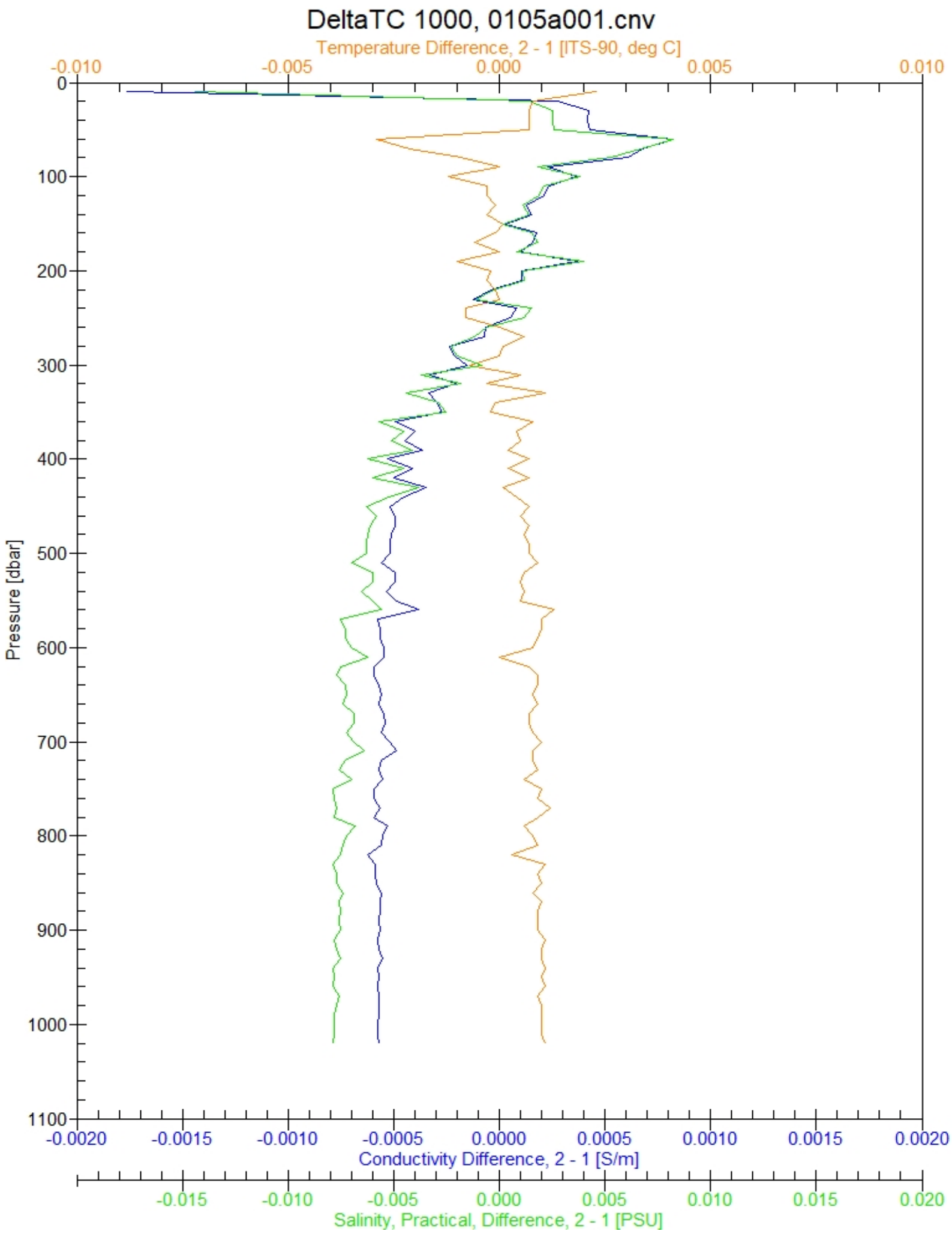

DeltaTC 1000, 0104a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

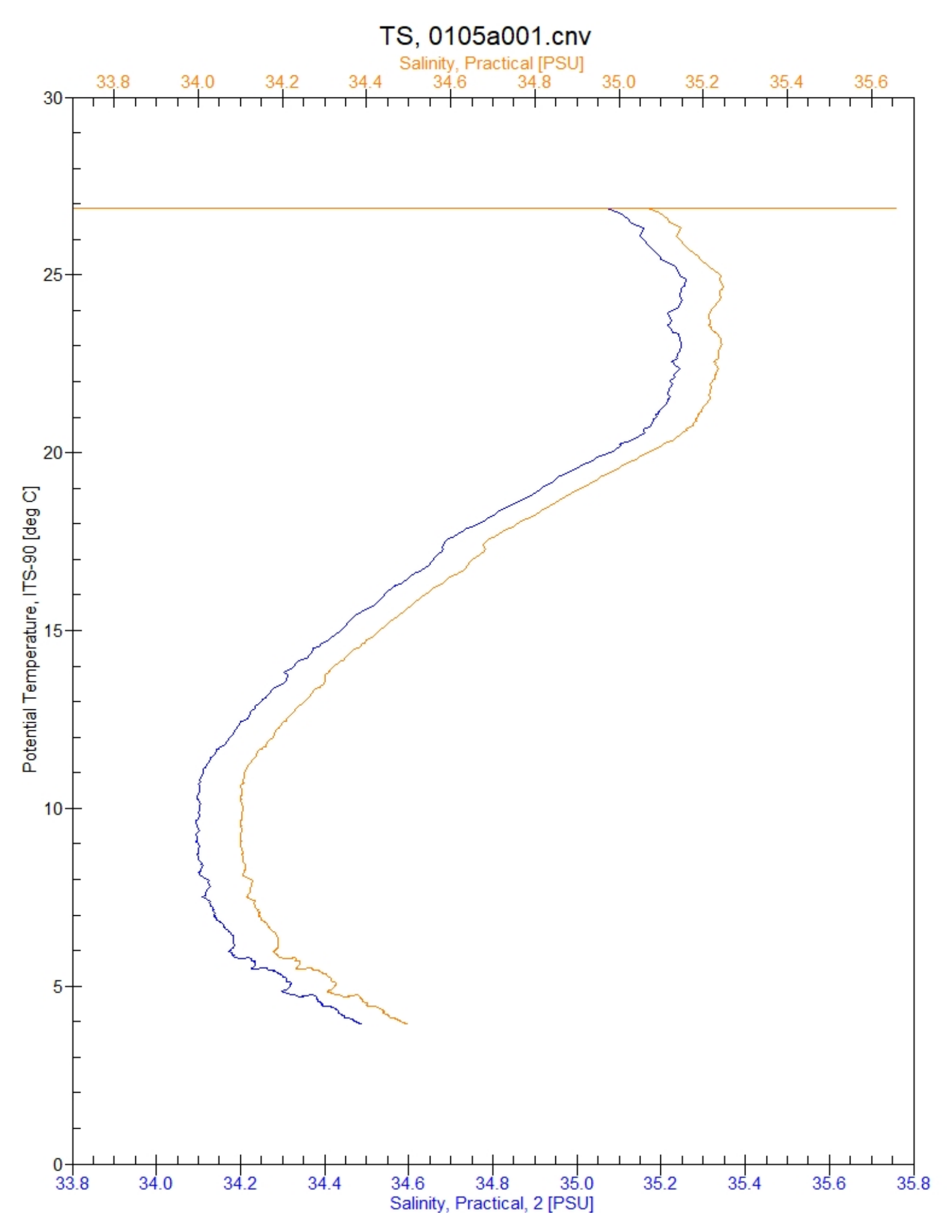

TS, 0104a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

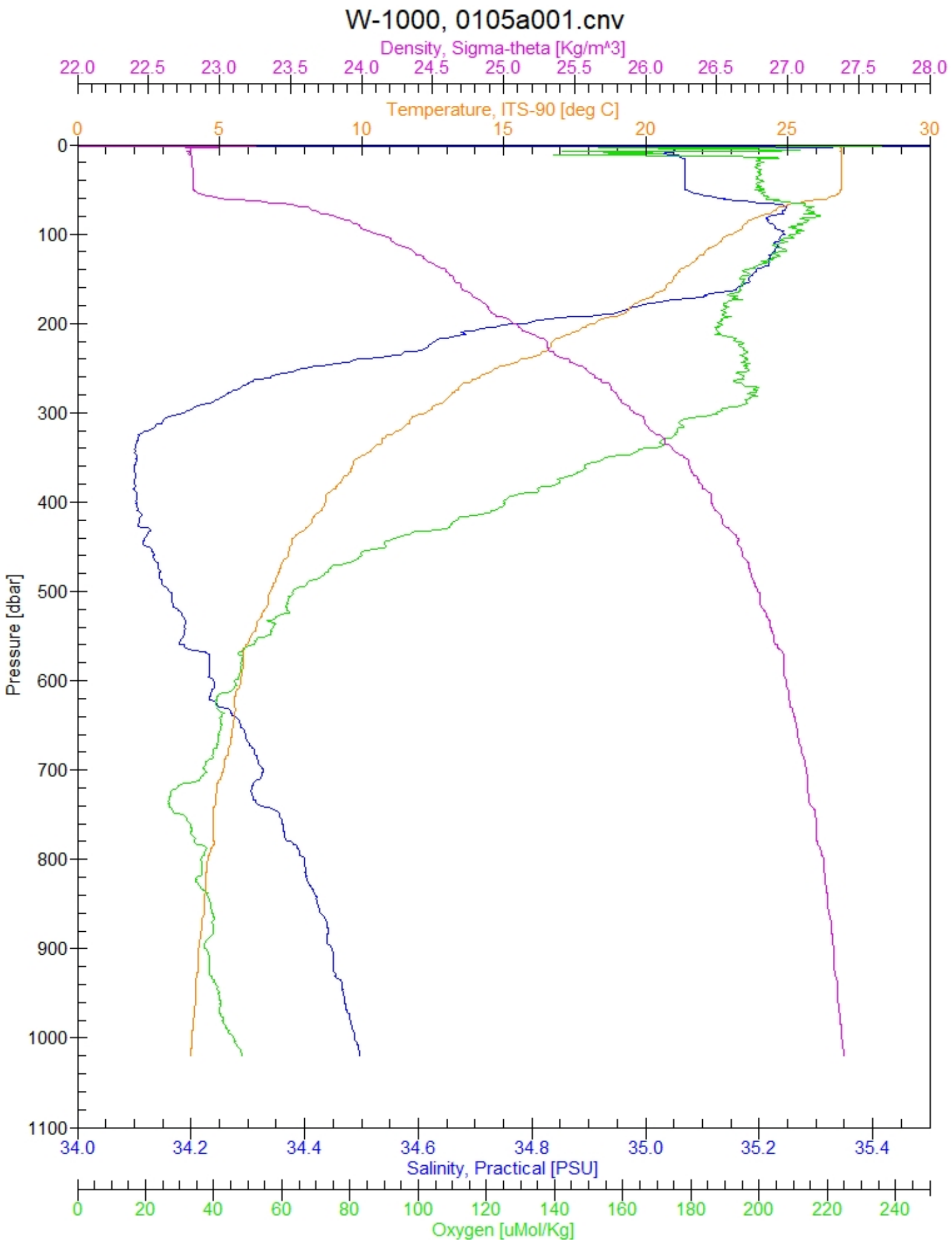

W-1000, 0104a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

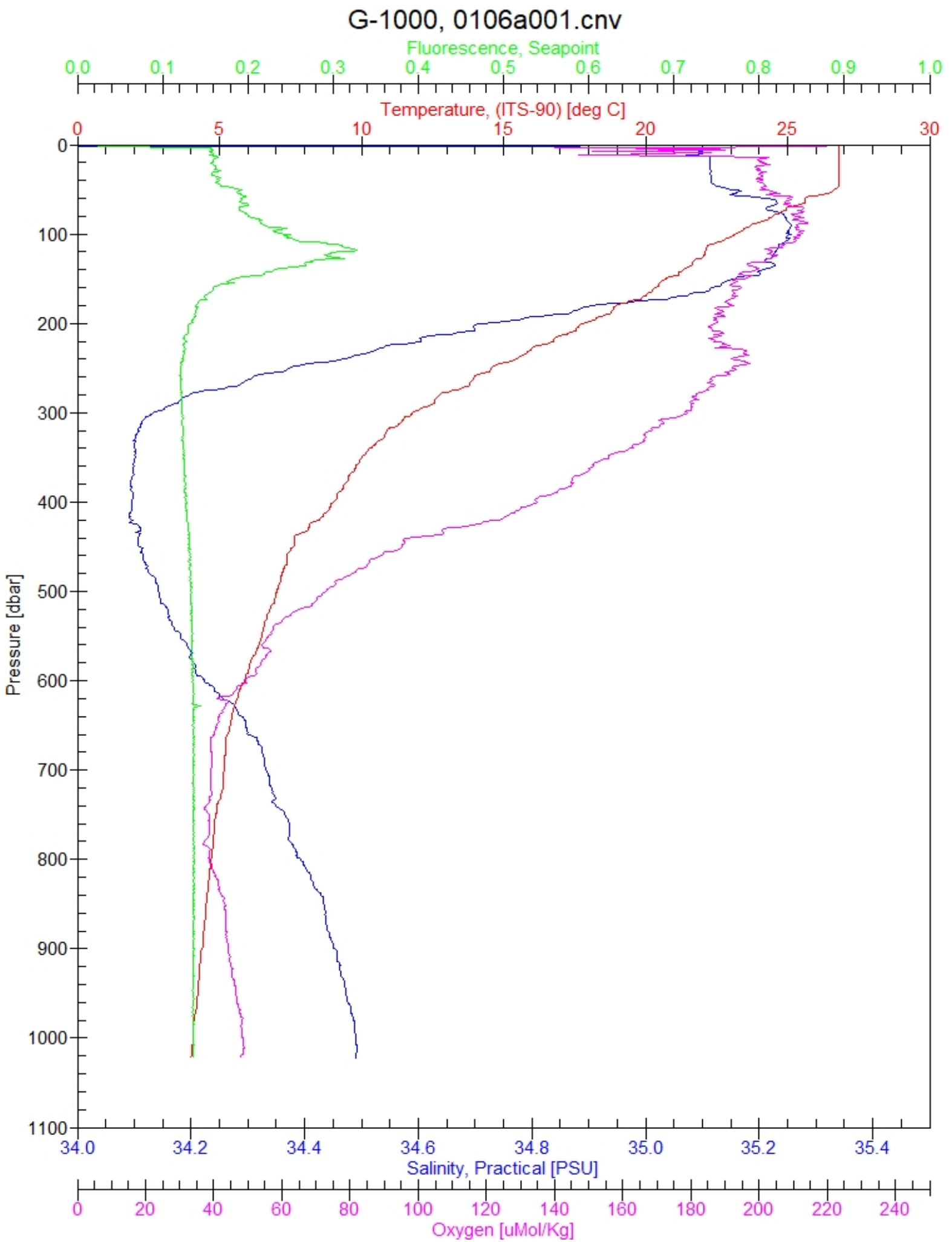

G-1000, 0105a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

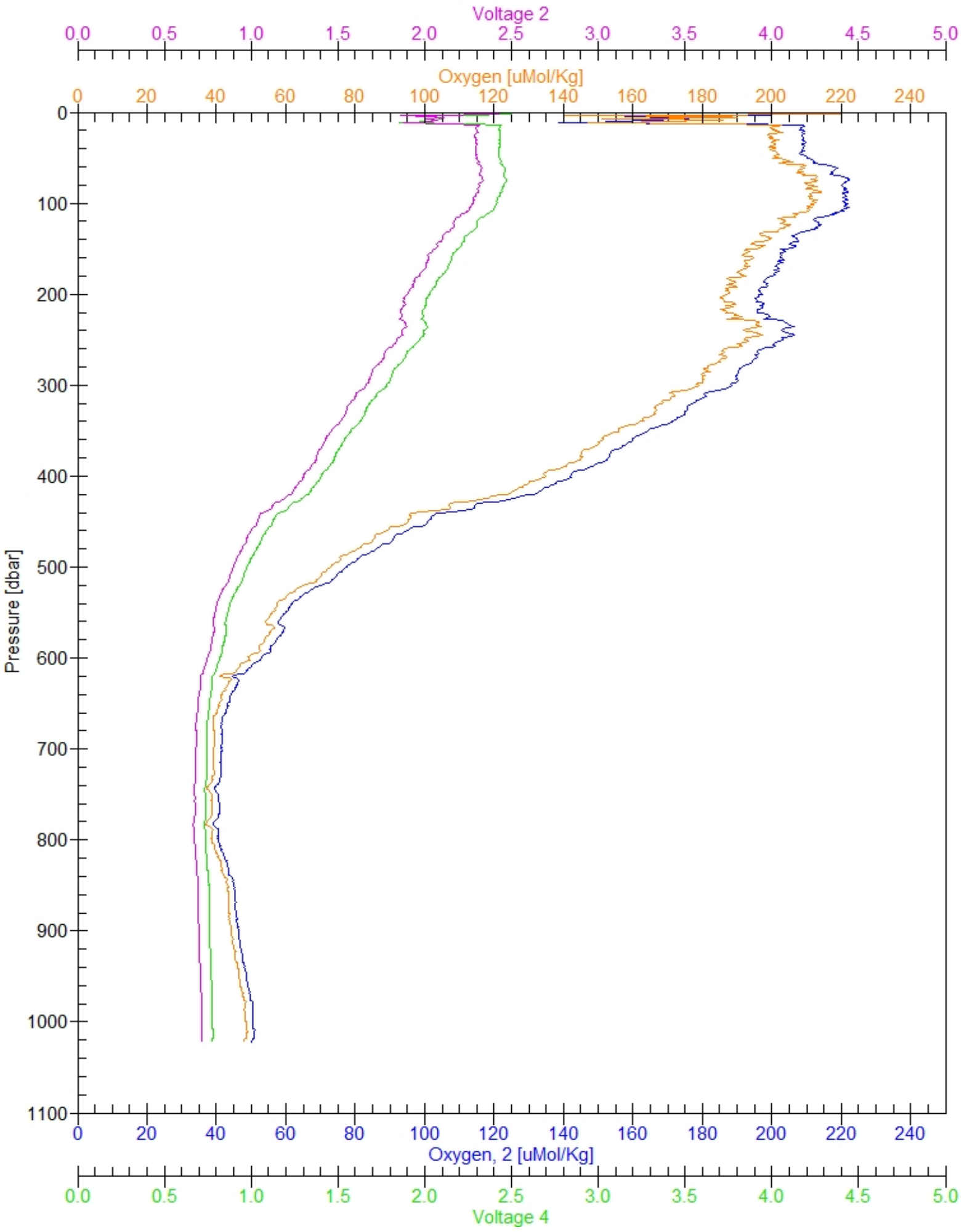

OXY1000, 0105a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

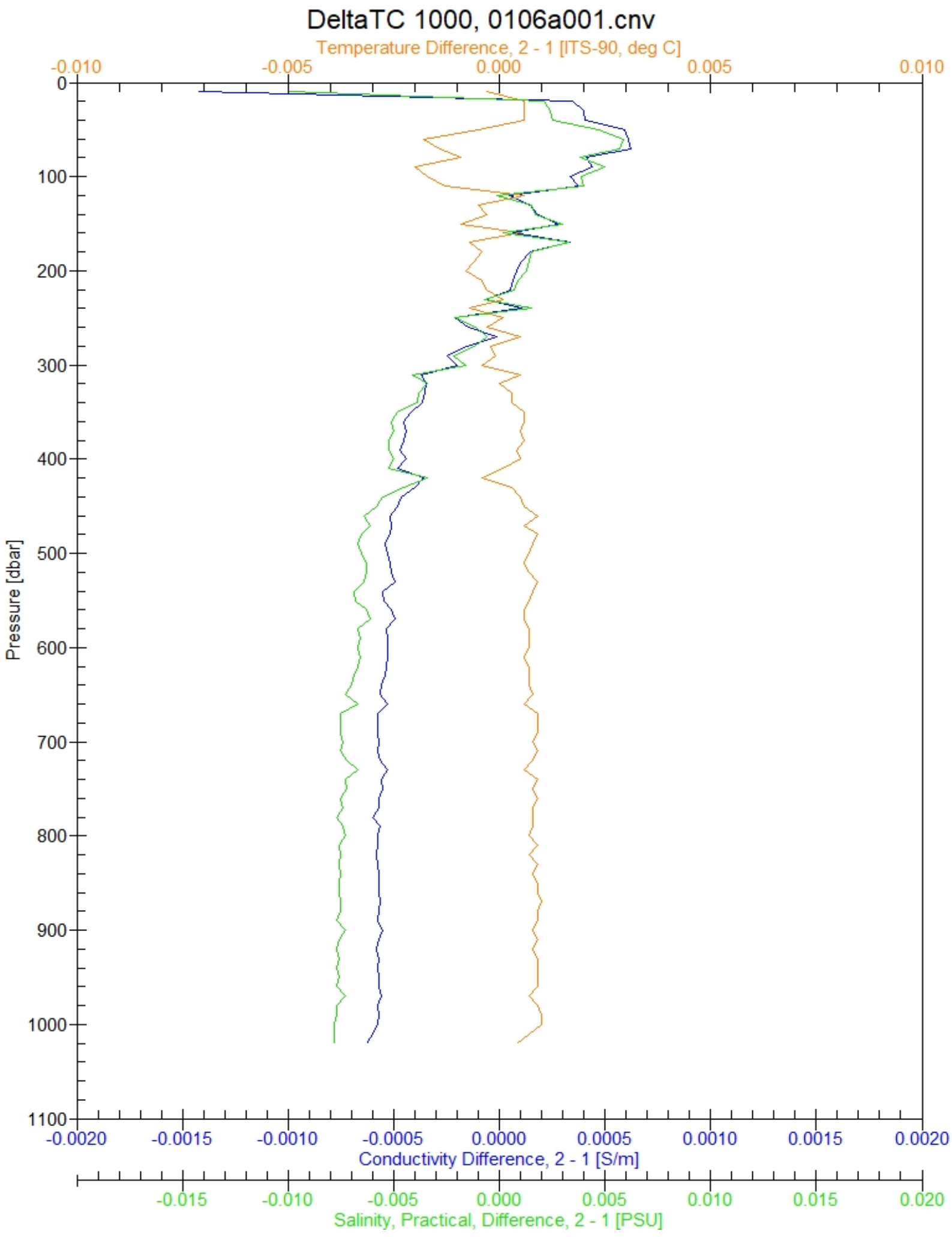

DeltaTC 1000, 0105a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

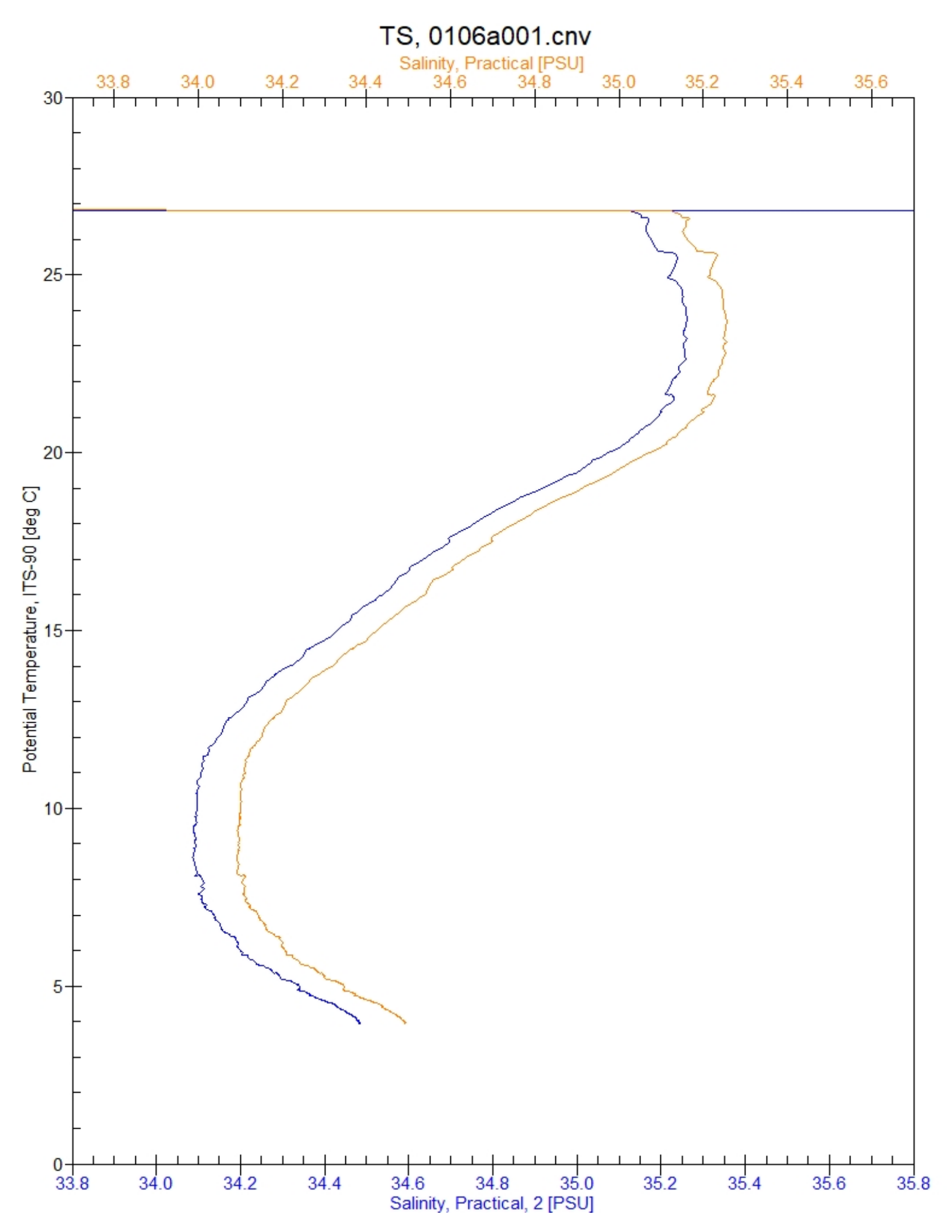

TS, 0105a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

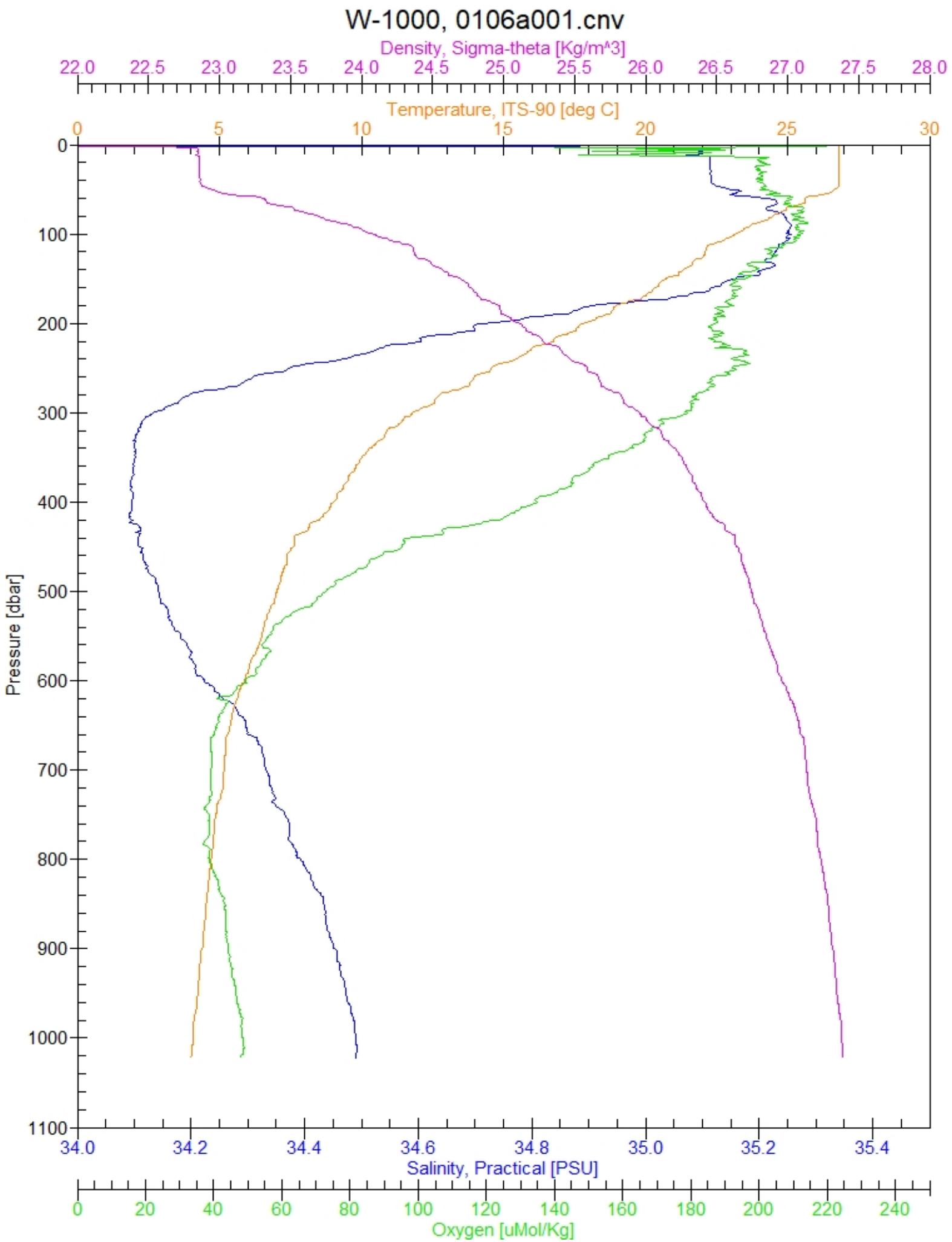

W-1000, 0105a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

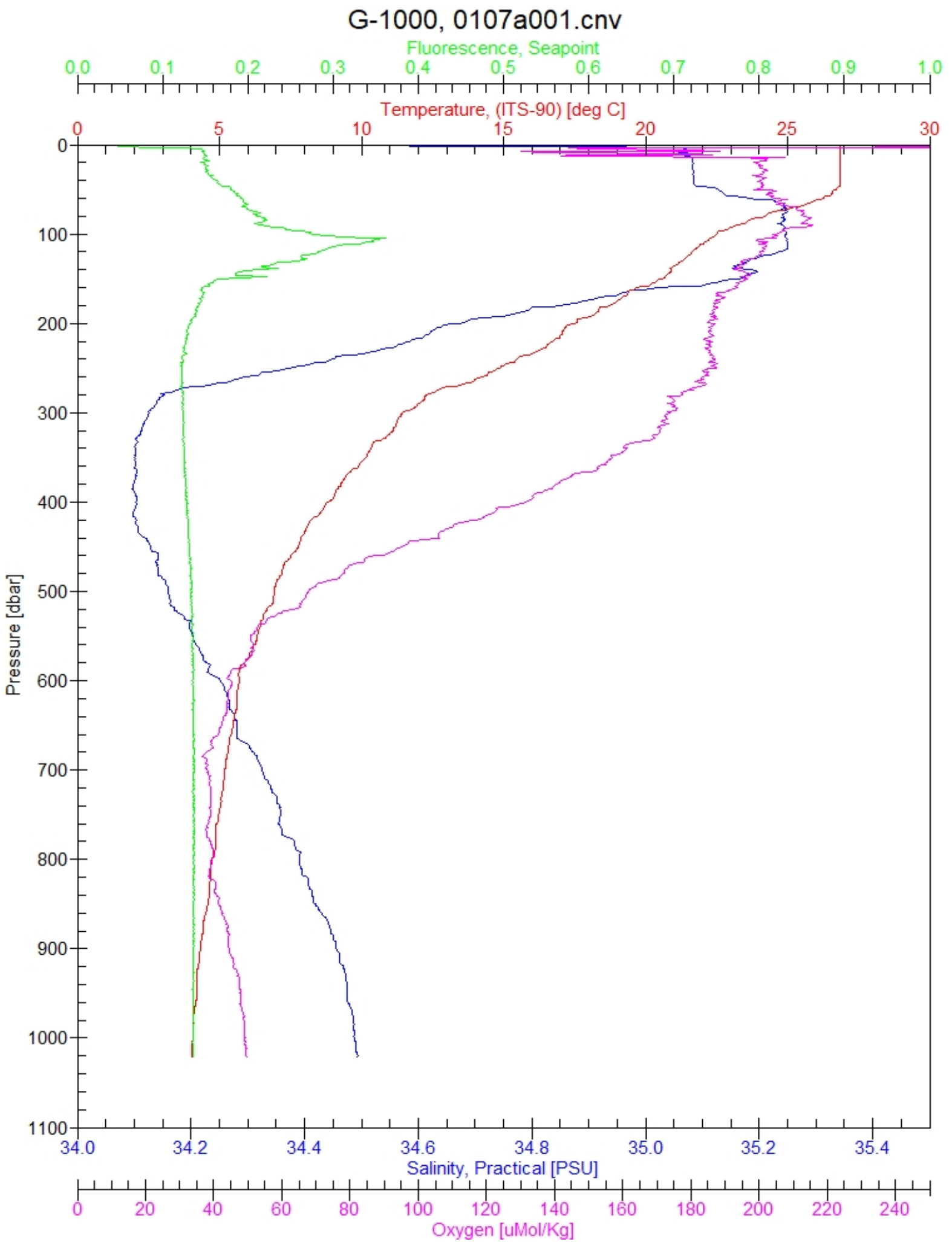

G-1000, 0106a001.cnv
Fluorescence, Seapoint
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
Temperature, (ITS-90) [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

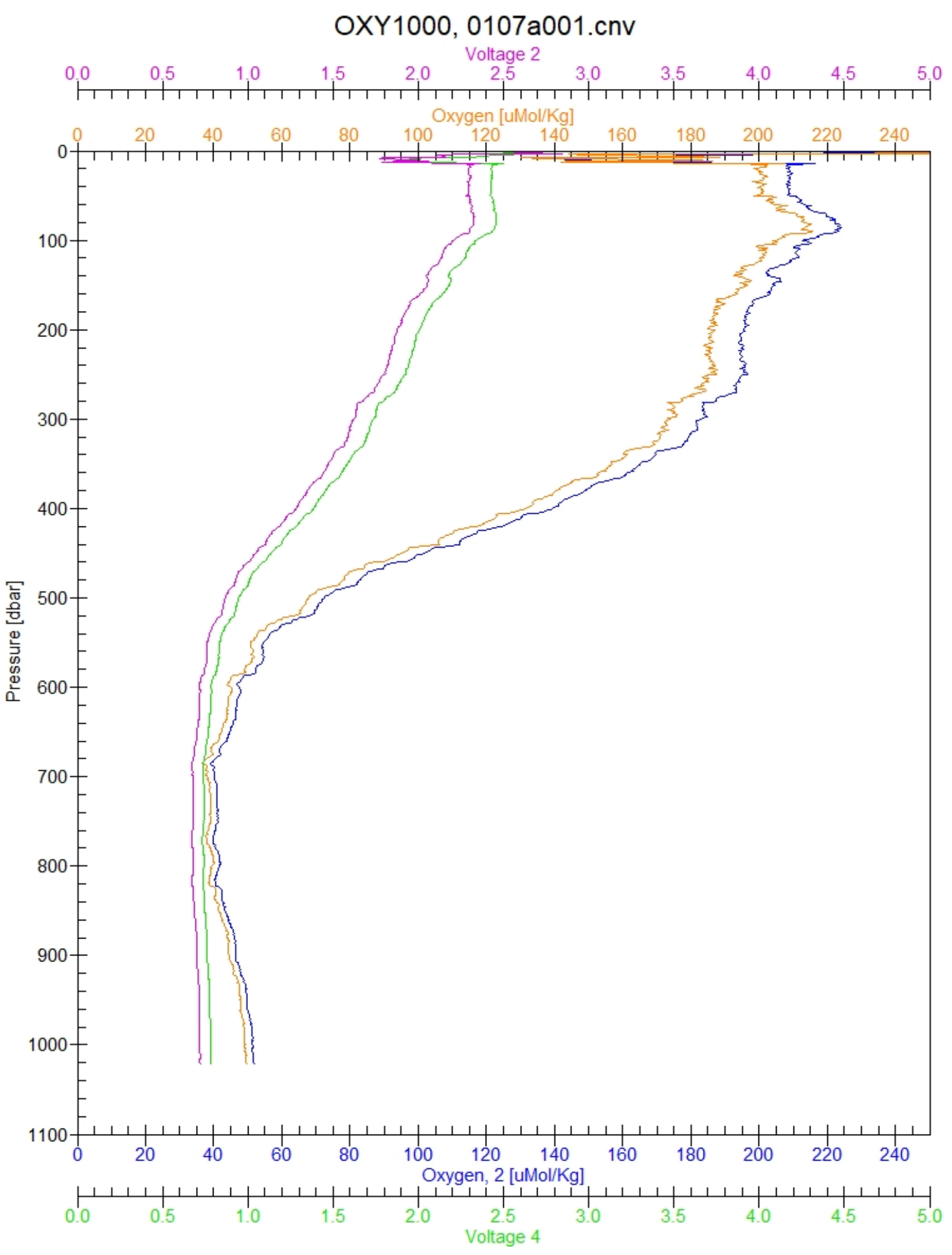

OXY1000, 0106a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

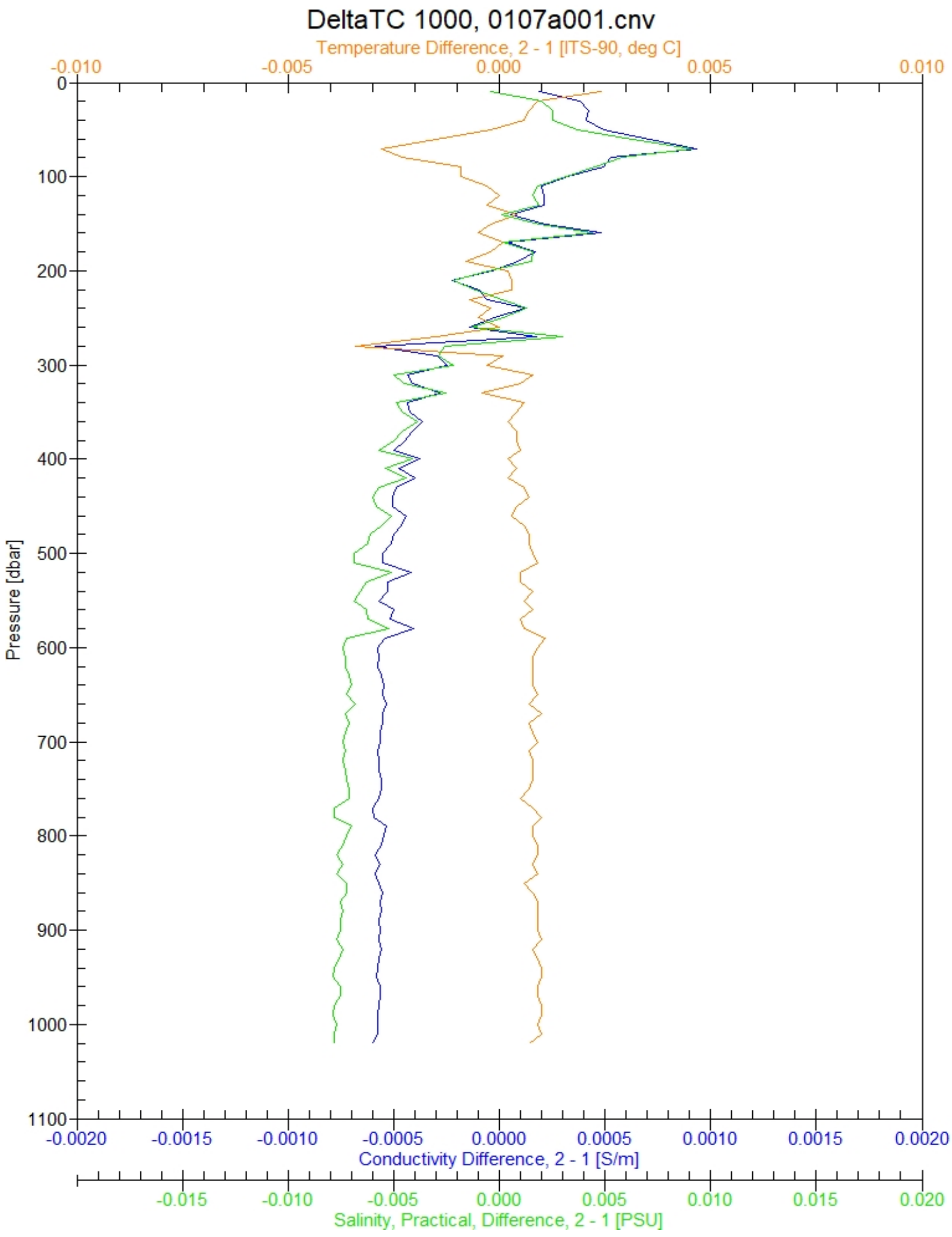

DeltaTC 1000, 0106a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

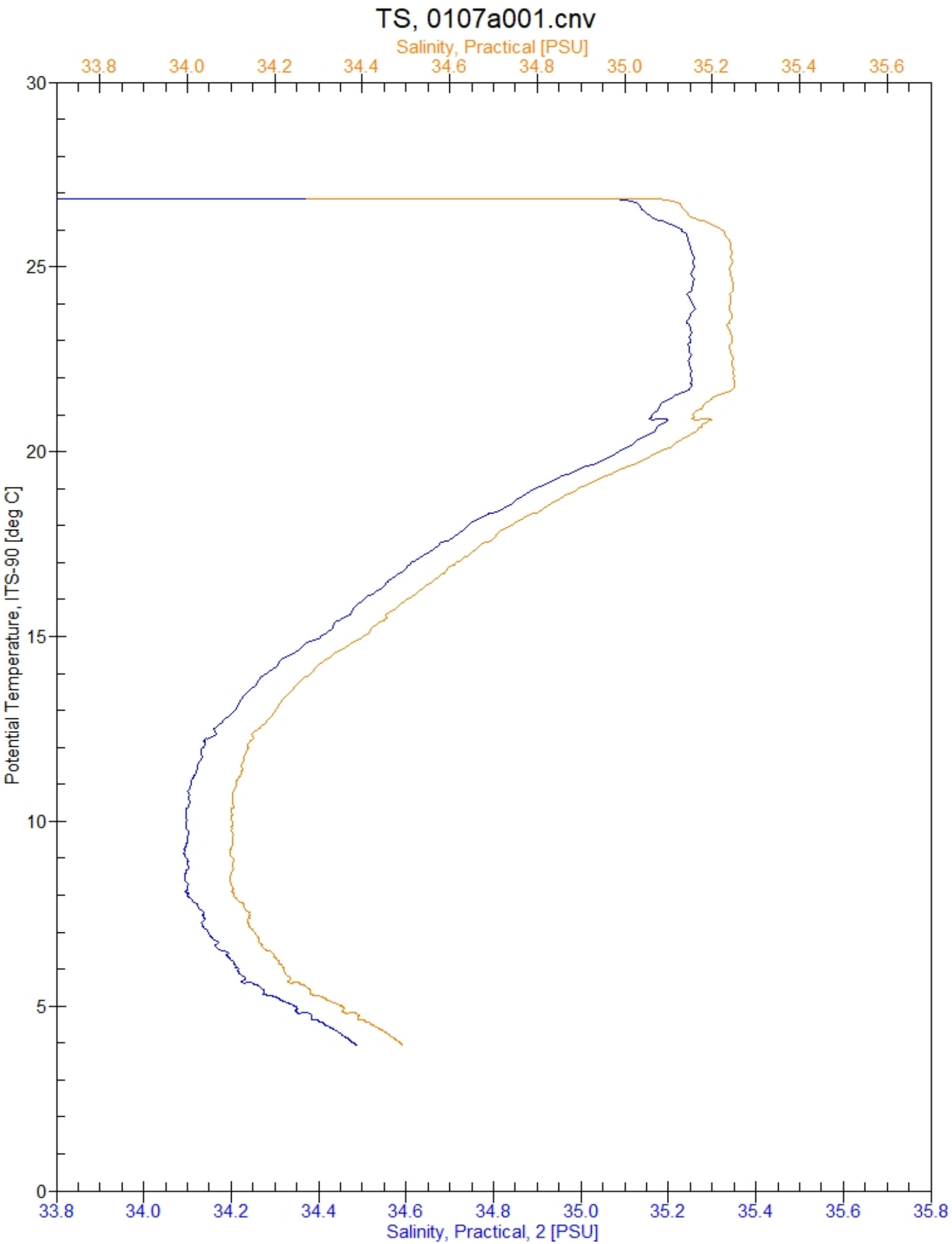

TS, 0106a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

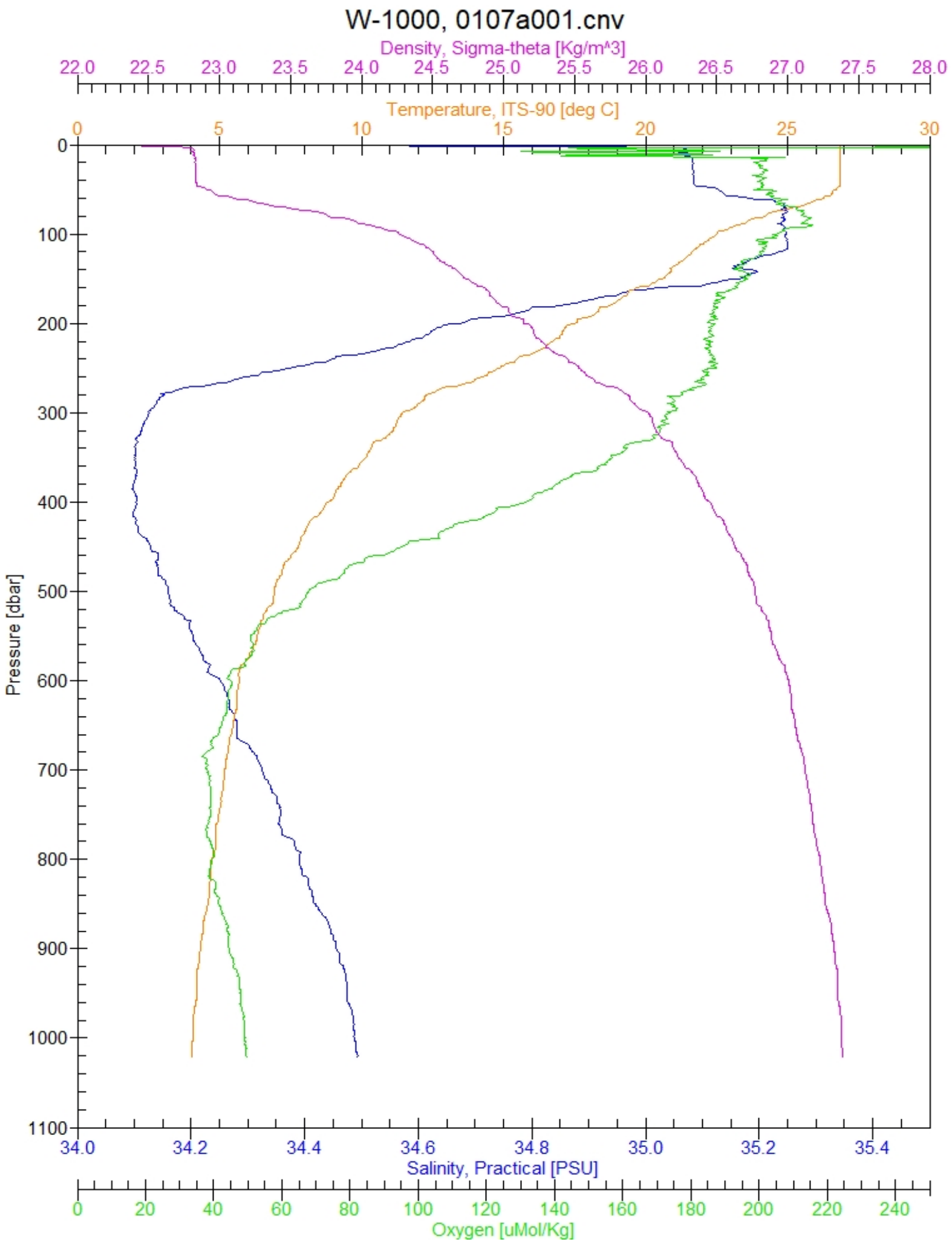

W-1000, 0106a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

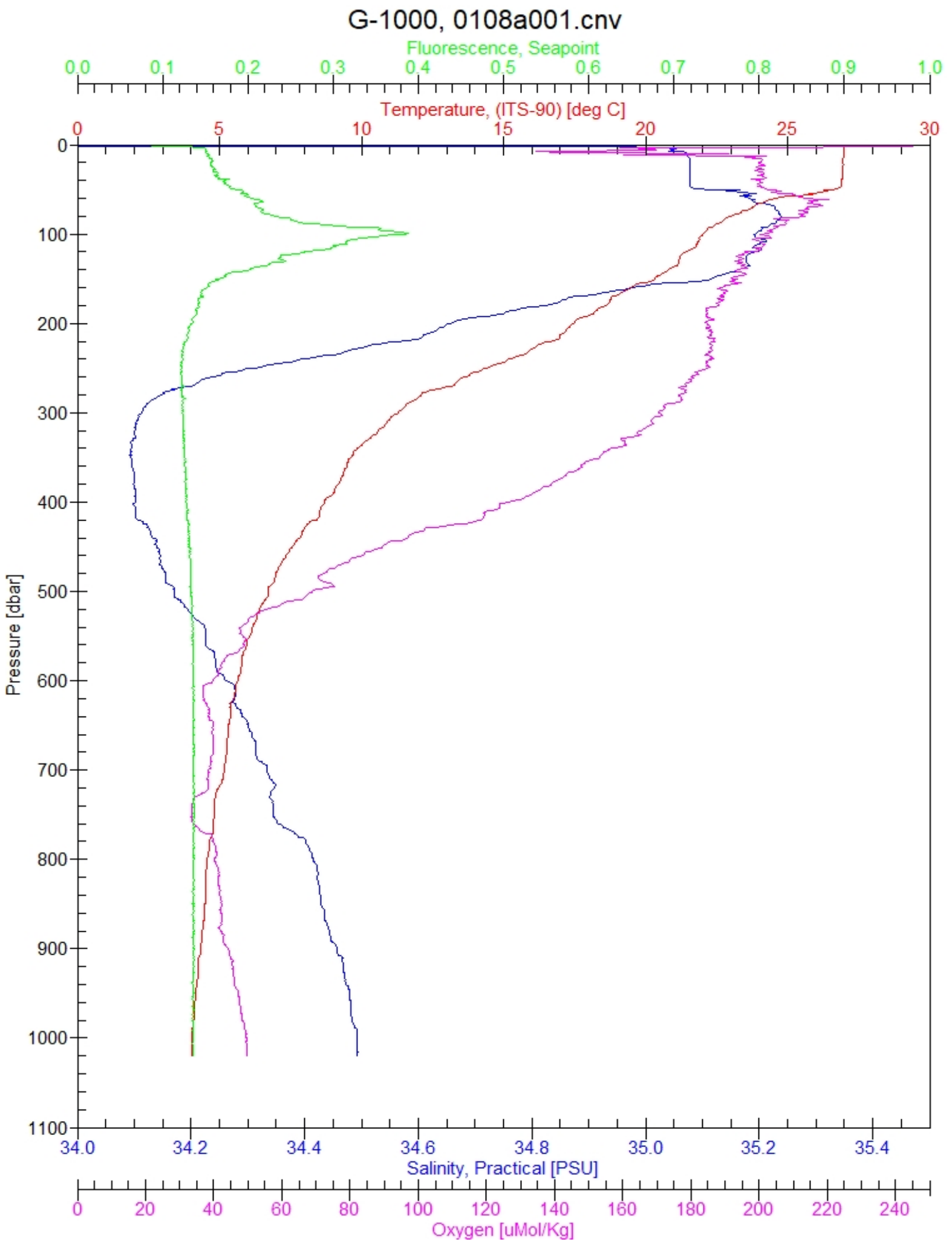

G-1000, 0107a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

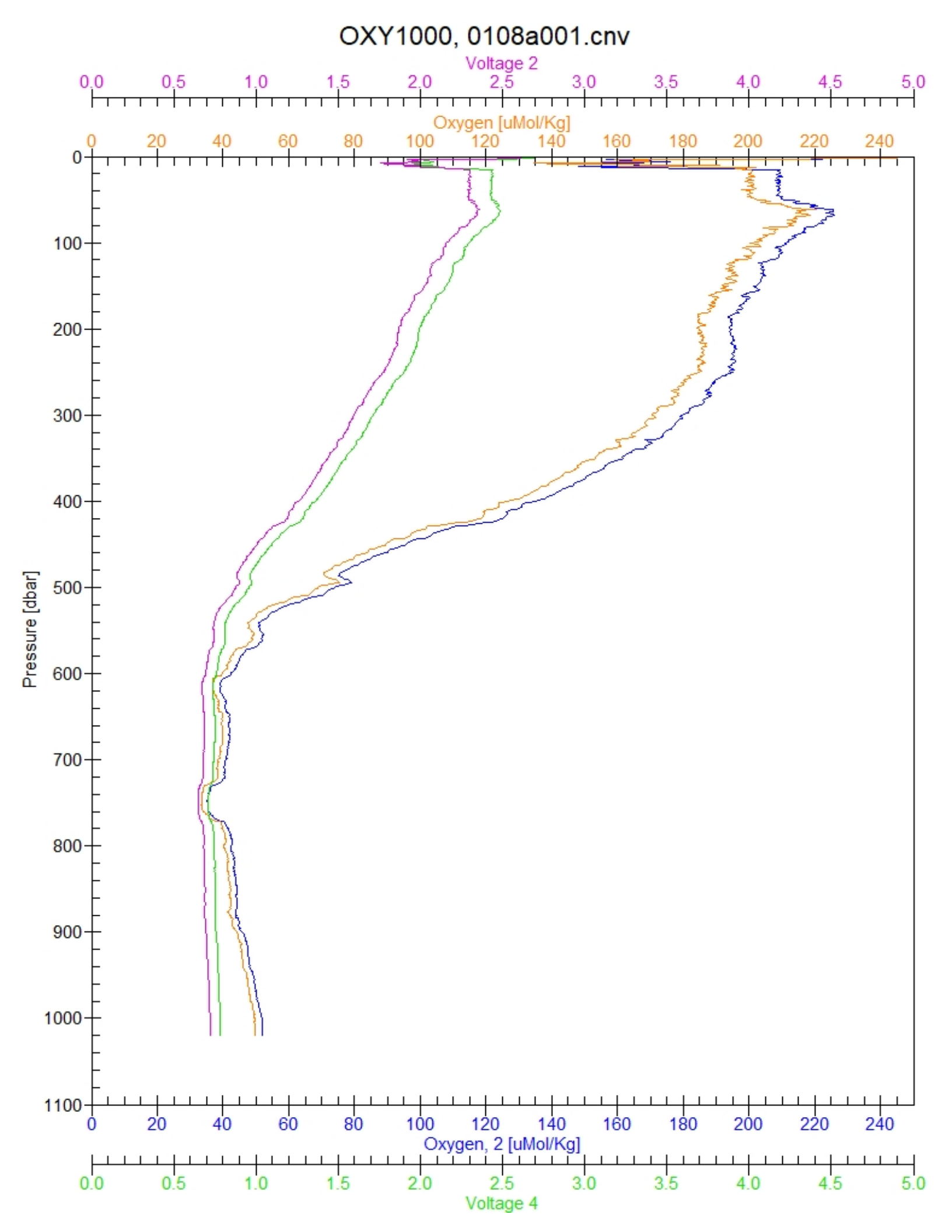

OXY1000, 0107a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4

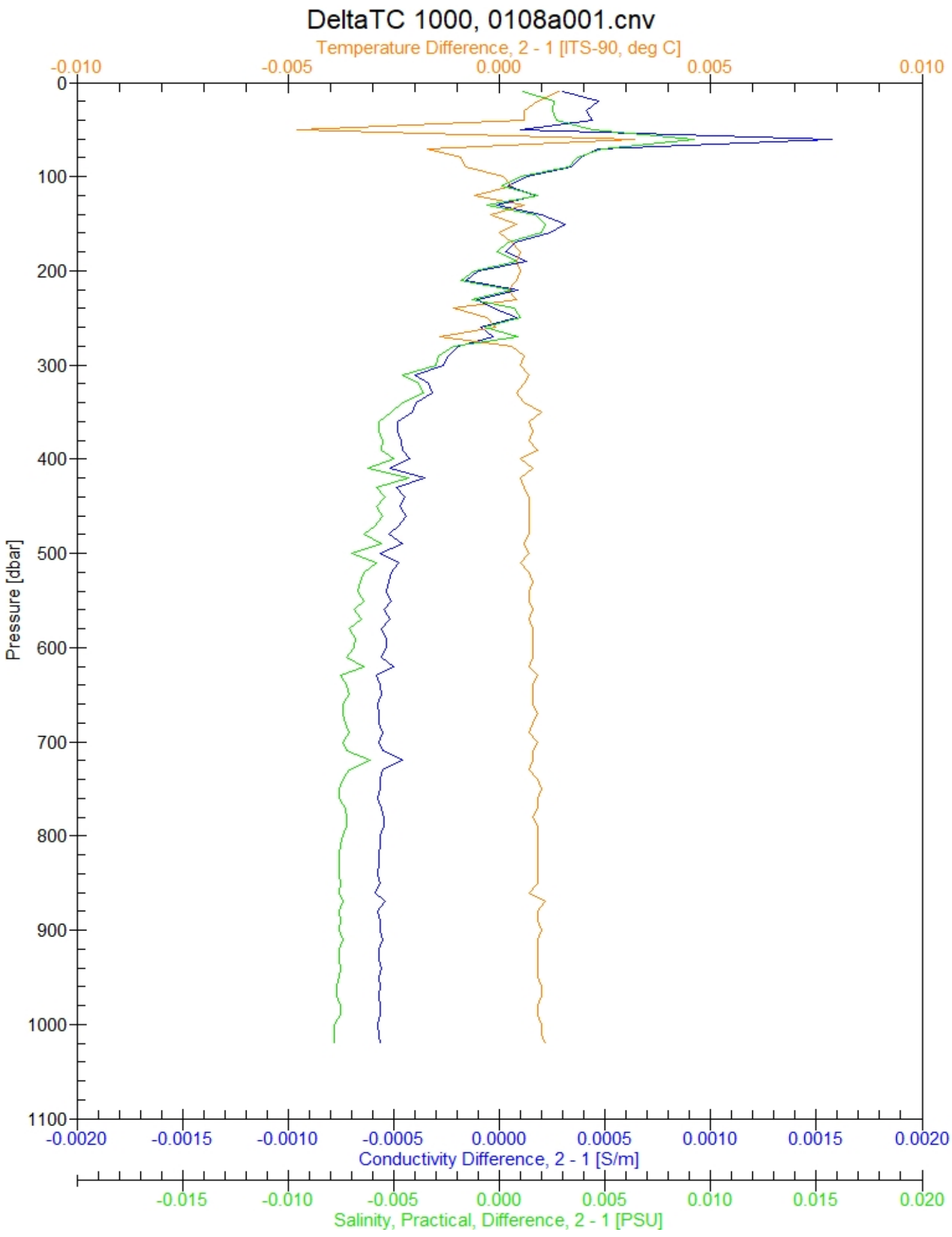

DeltaTC 1000, 0107a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

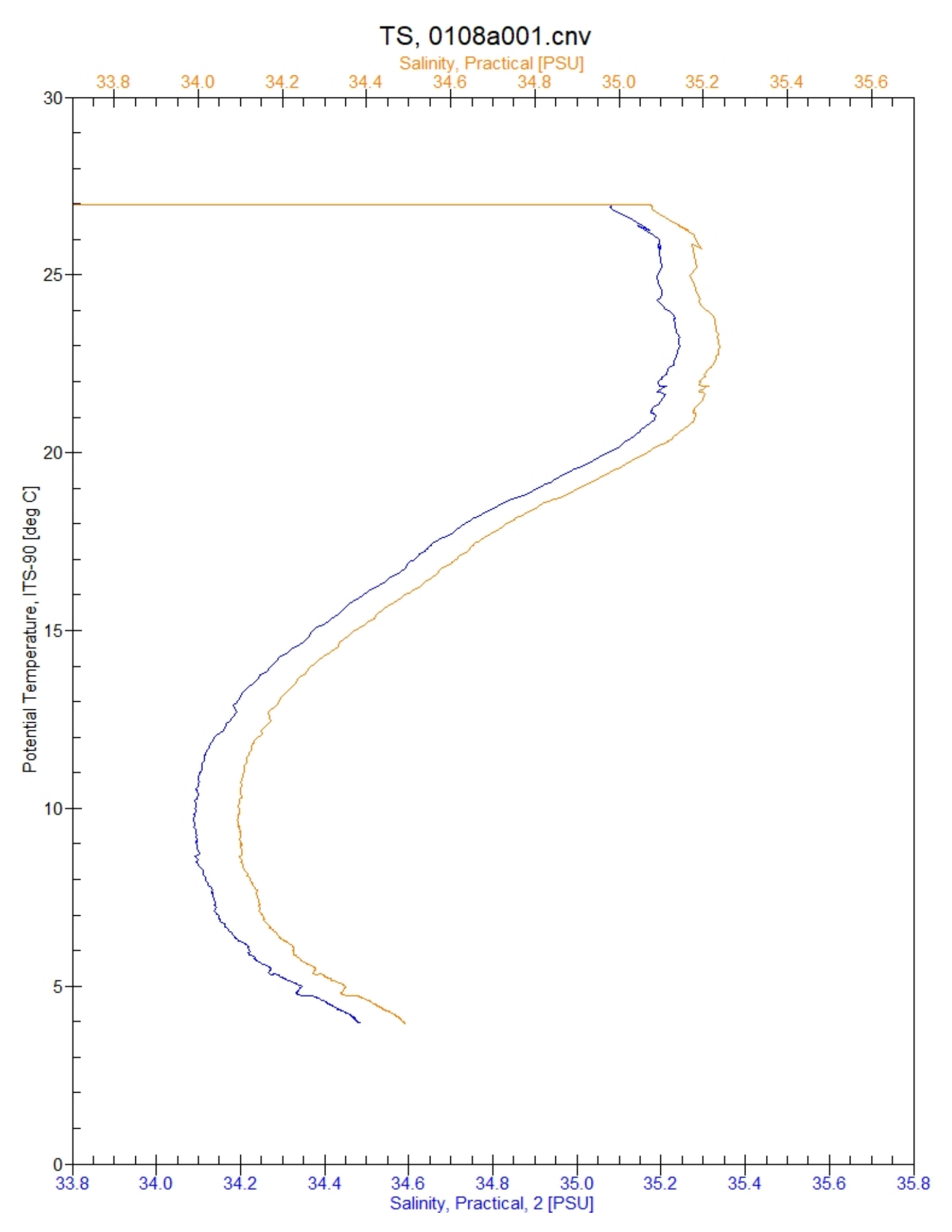

TS, 0107a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

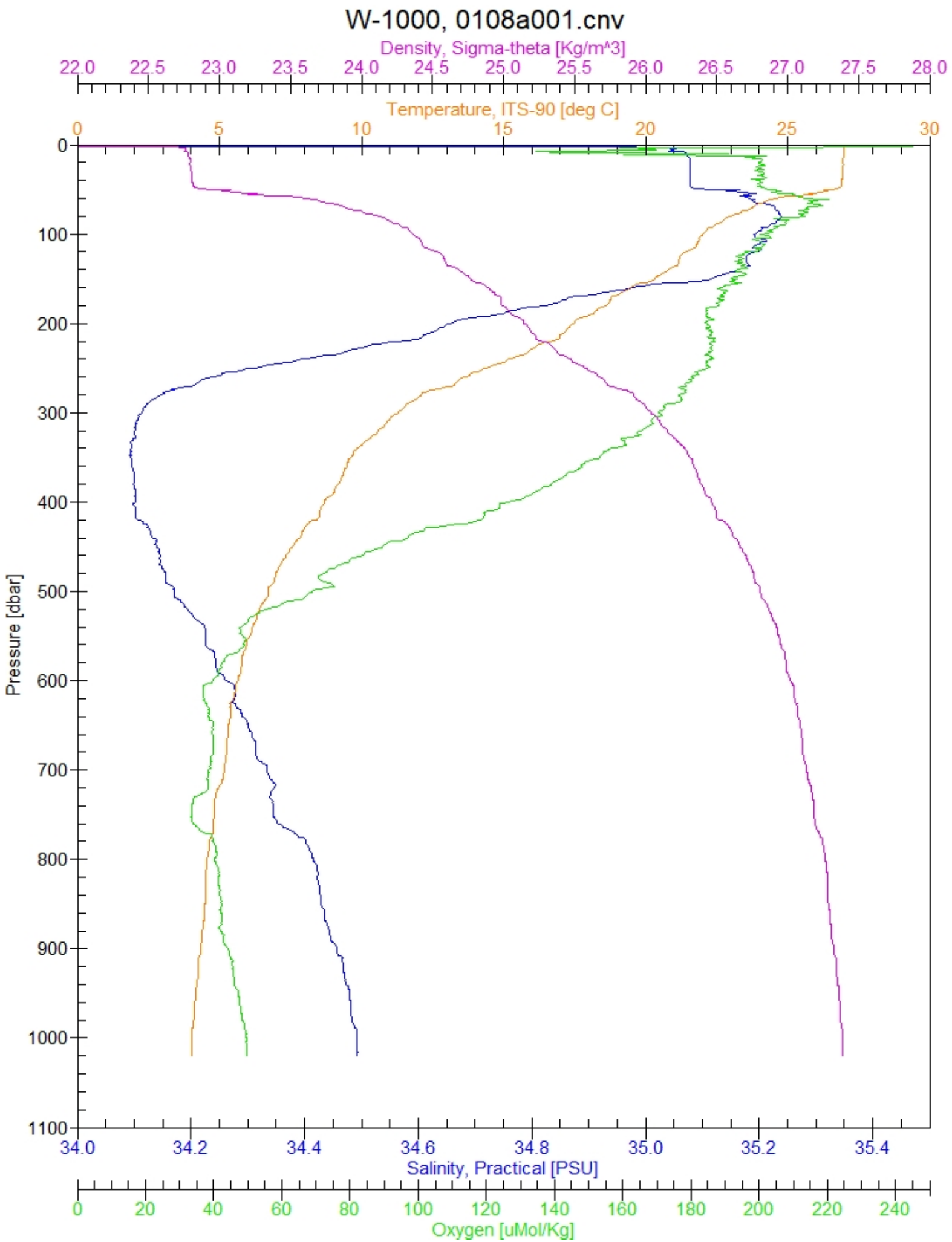

W-1000, 0107a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

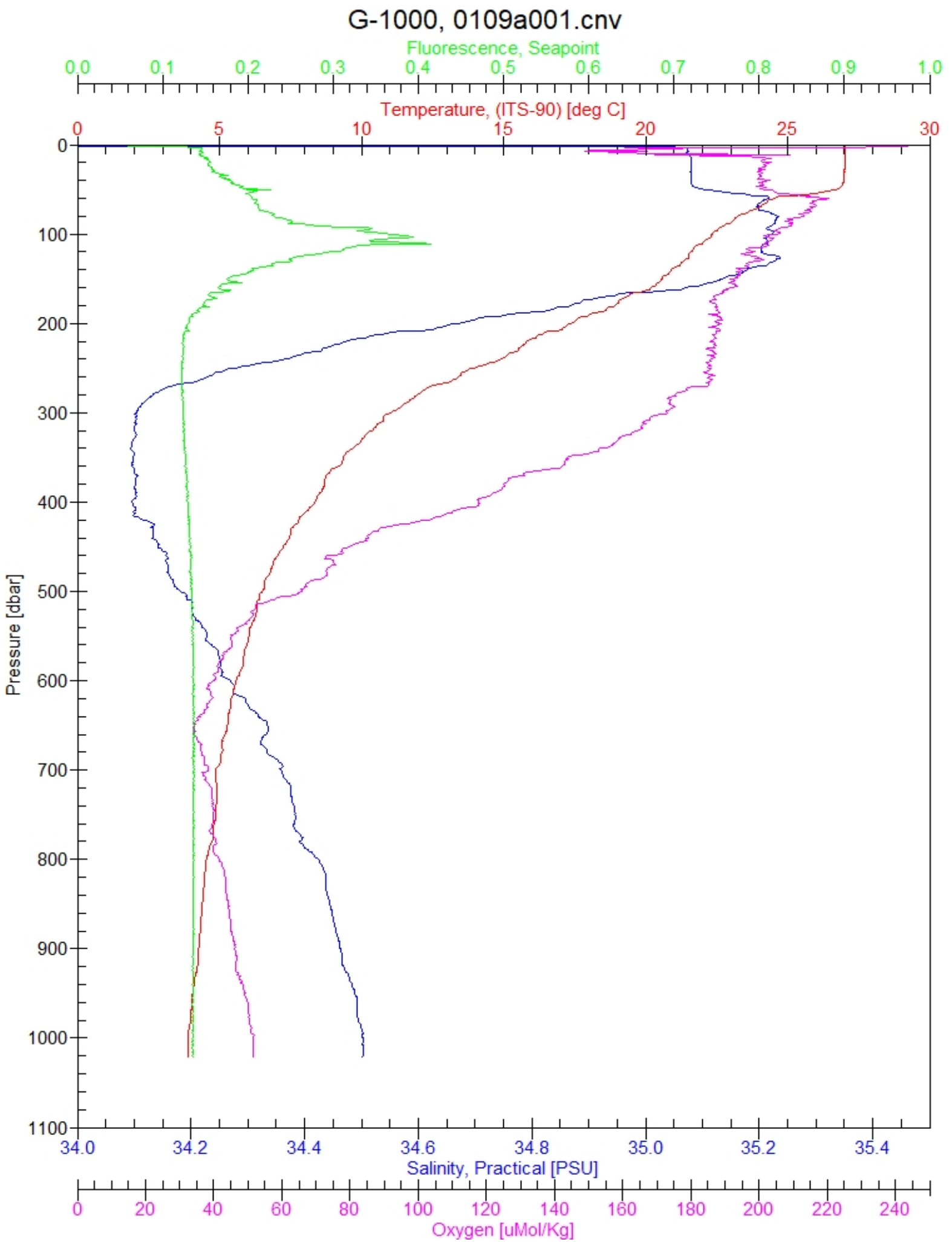

G-1000, 0108a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

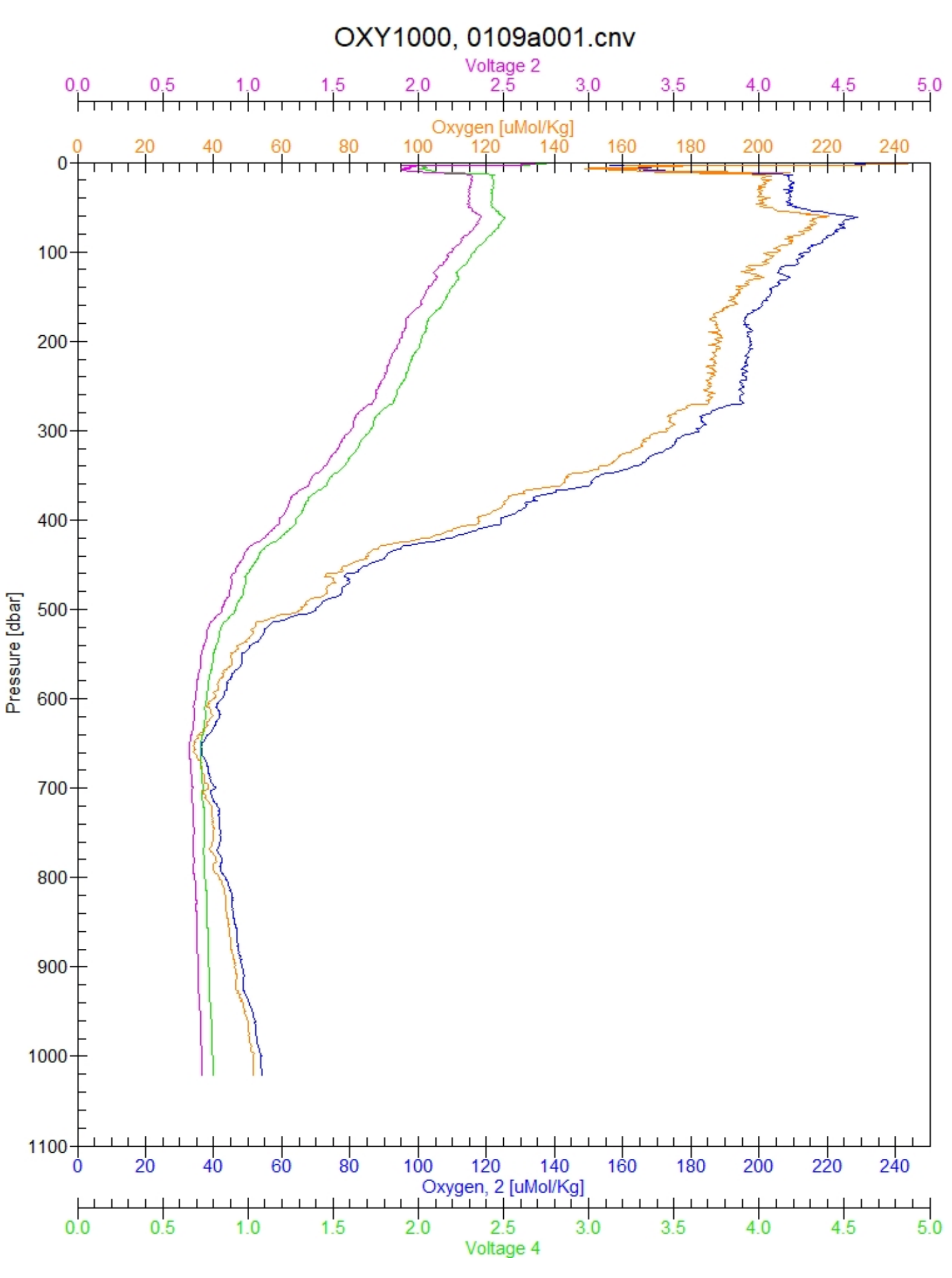

OXY1000, 0108a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
Voltage 4

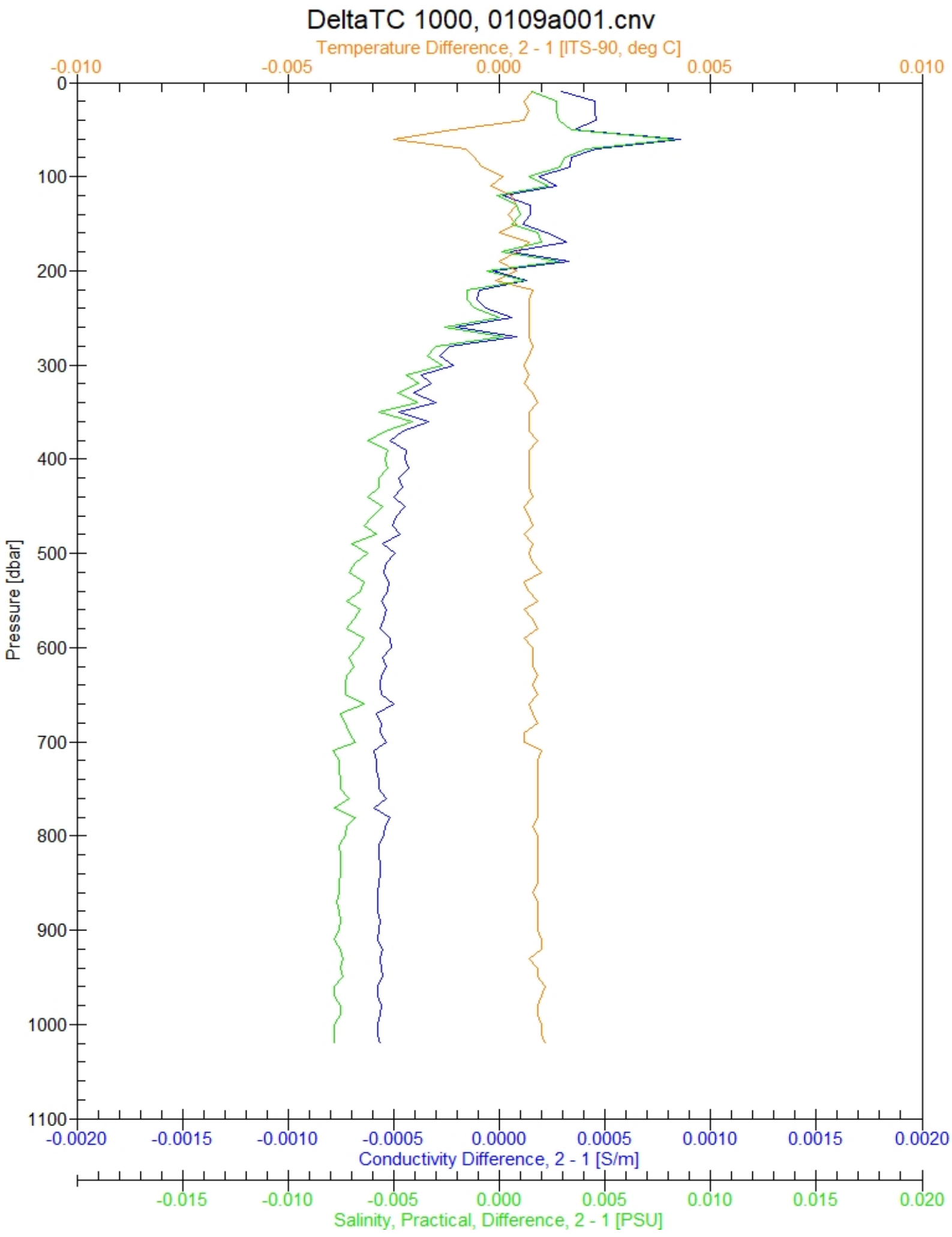

DeltaTC 1000, 0108a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

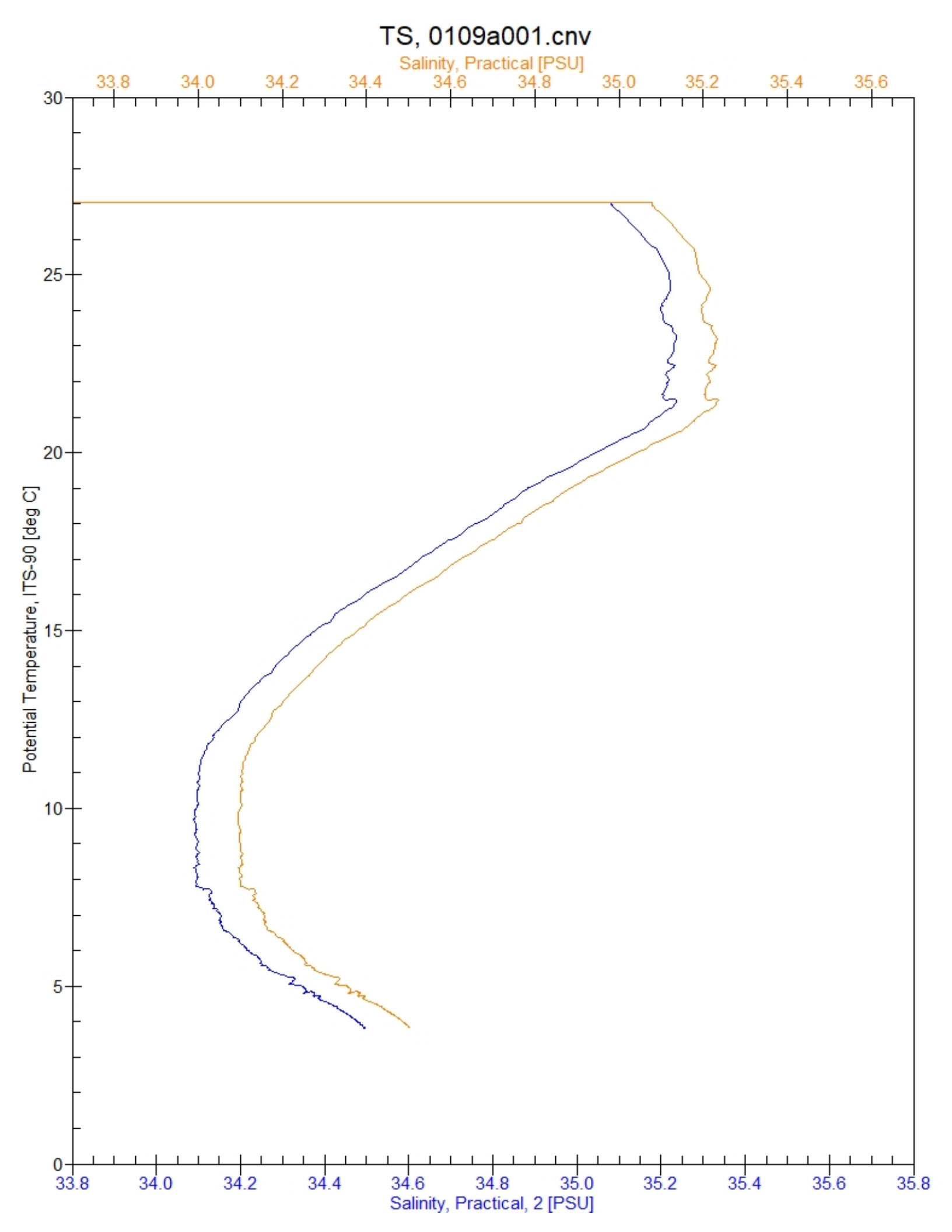

TS, 0108a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

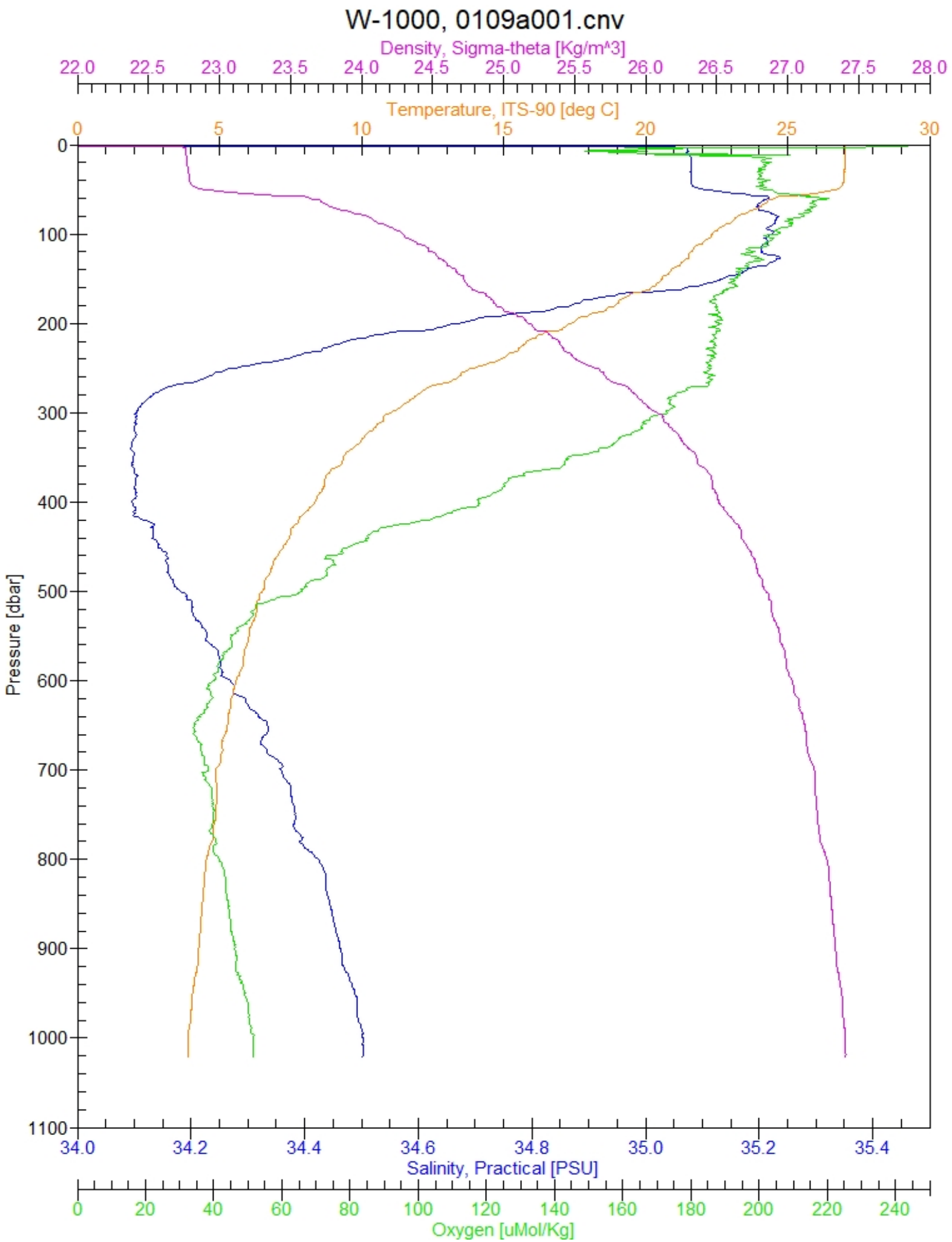

W-1000, 0108a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

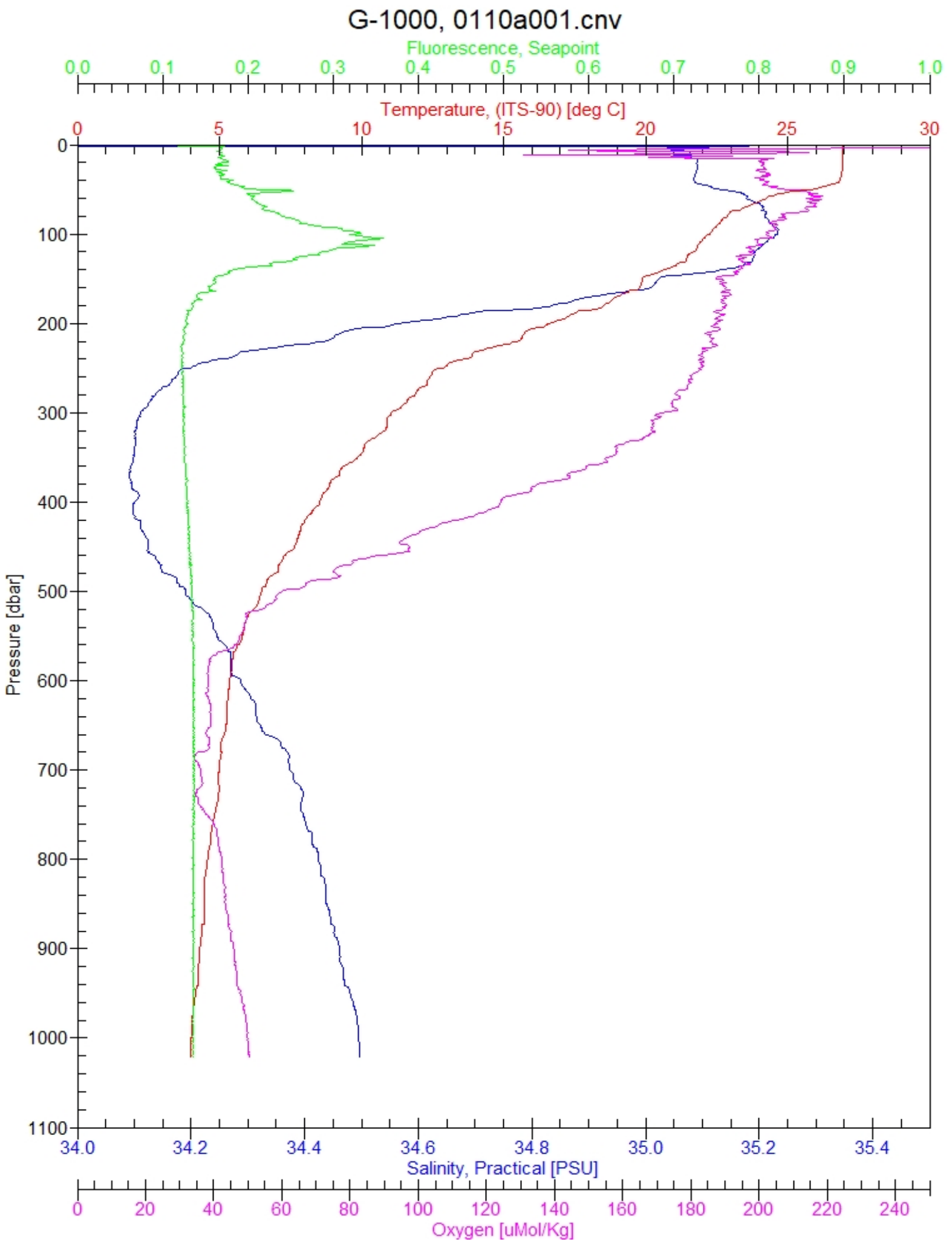

G-1000, 0109a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

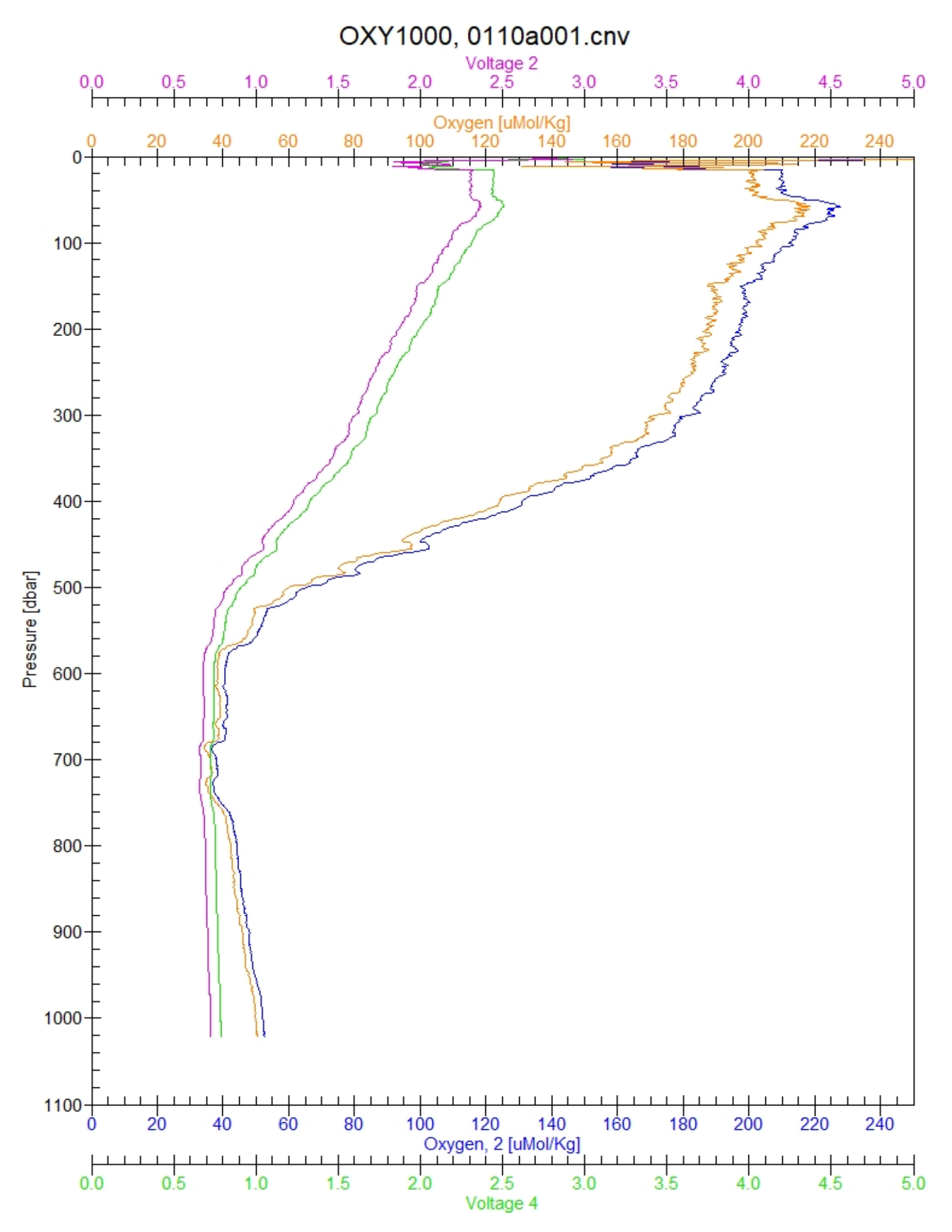

OXY1000, 0109a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Voltage 4
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

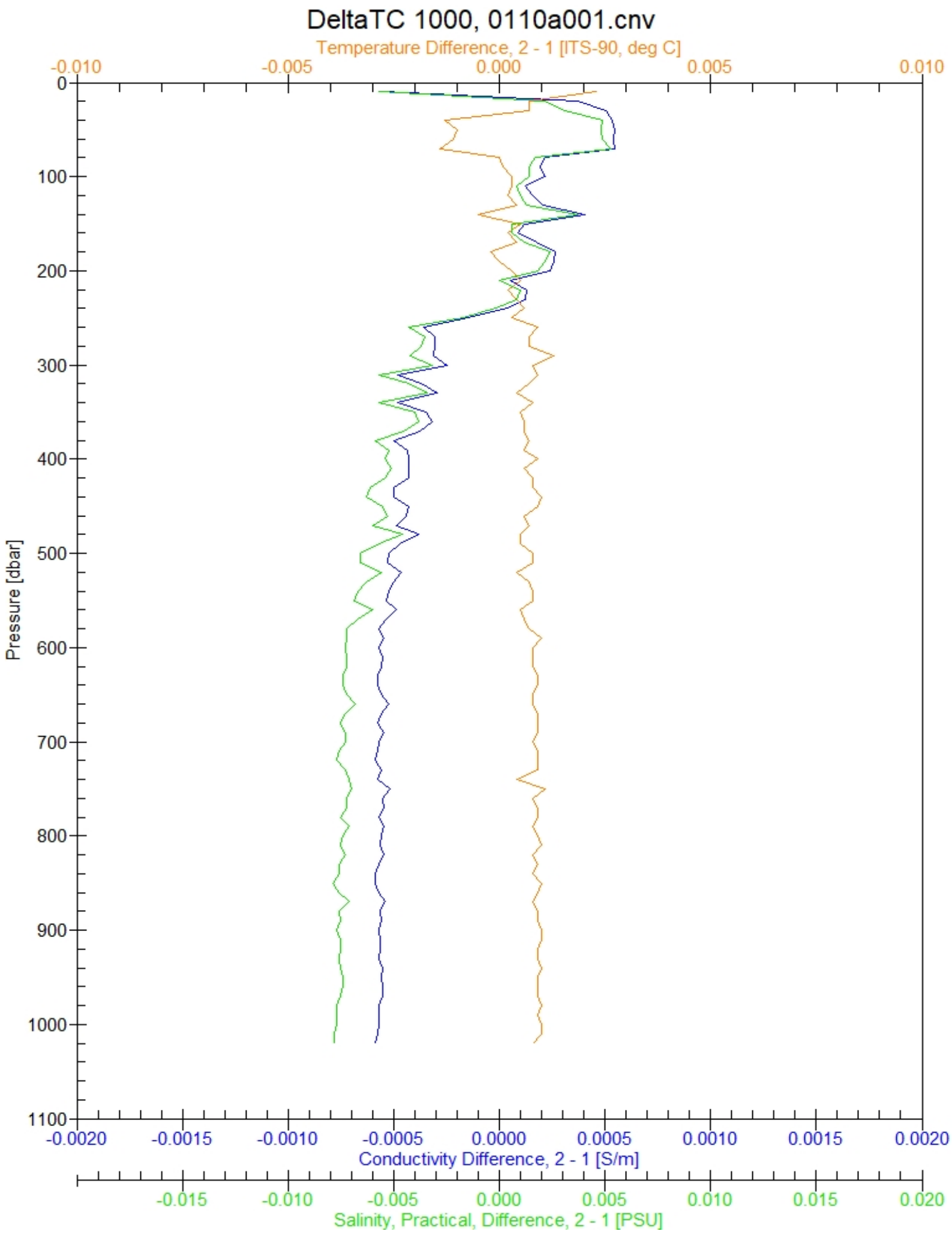

DeltaTC 1000, 0109a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

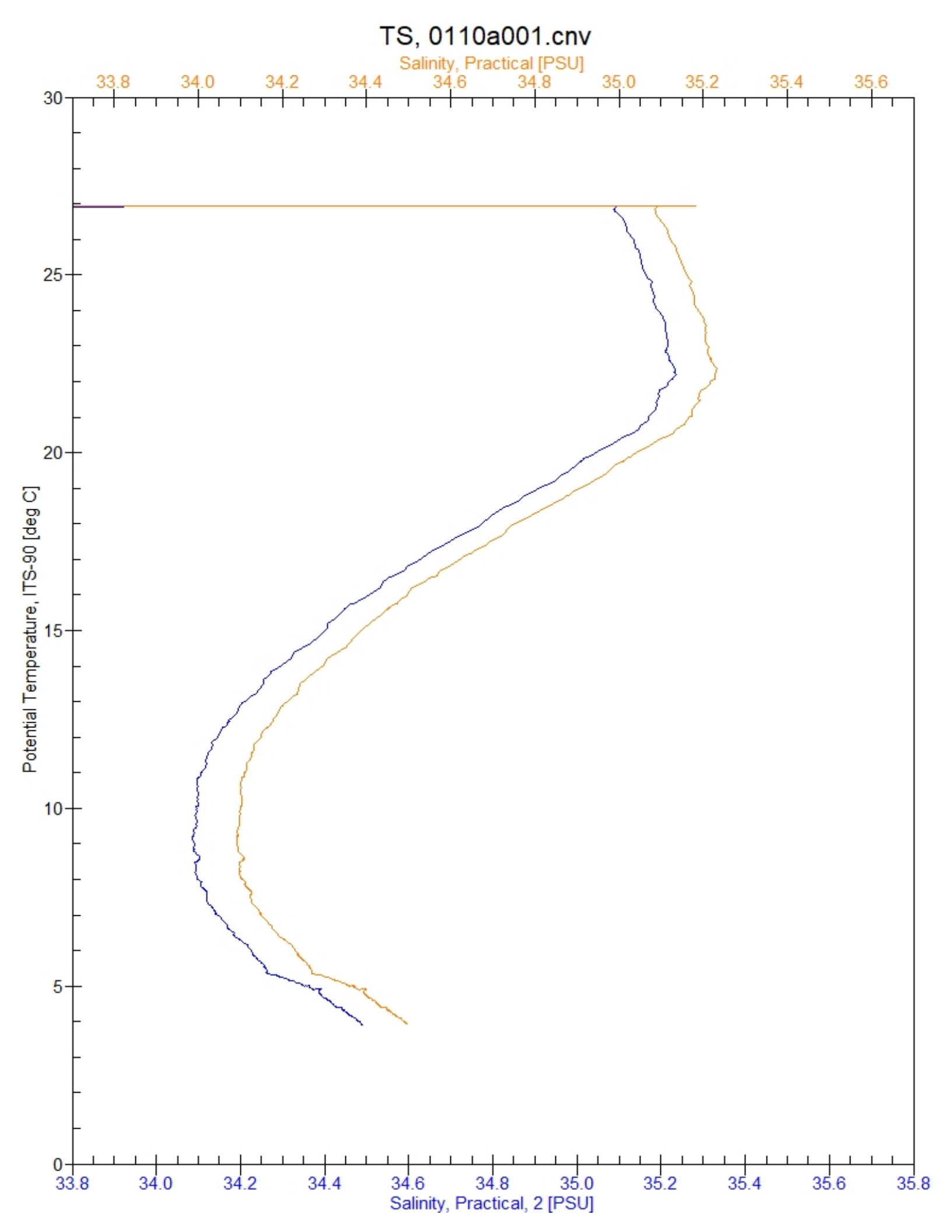

TS, 0109a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

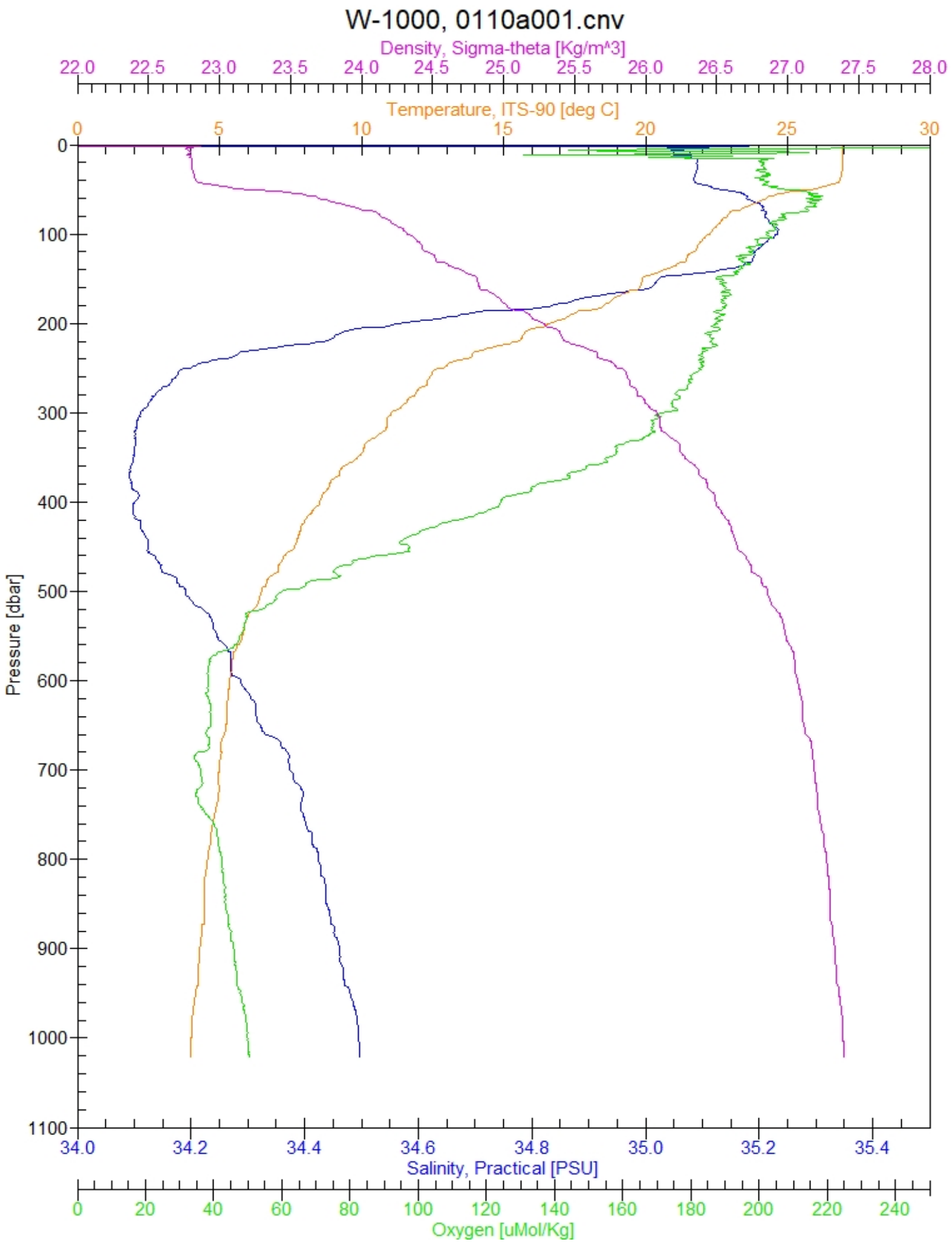

W-1000, 0109a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Salinity, Practical [PSU]
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240

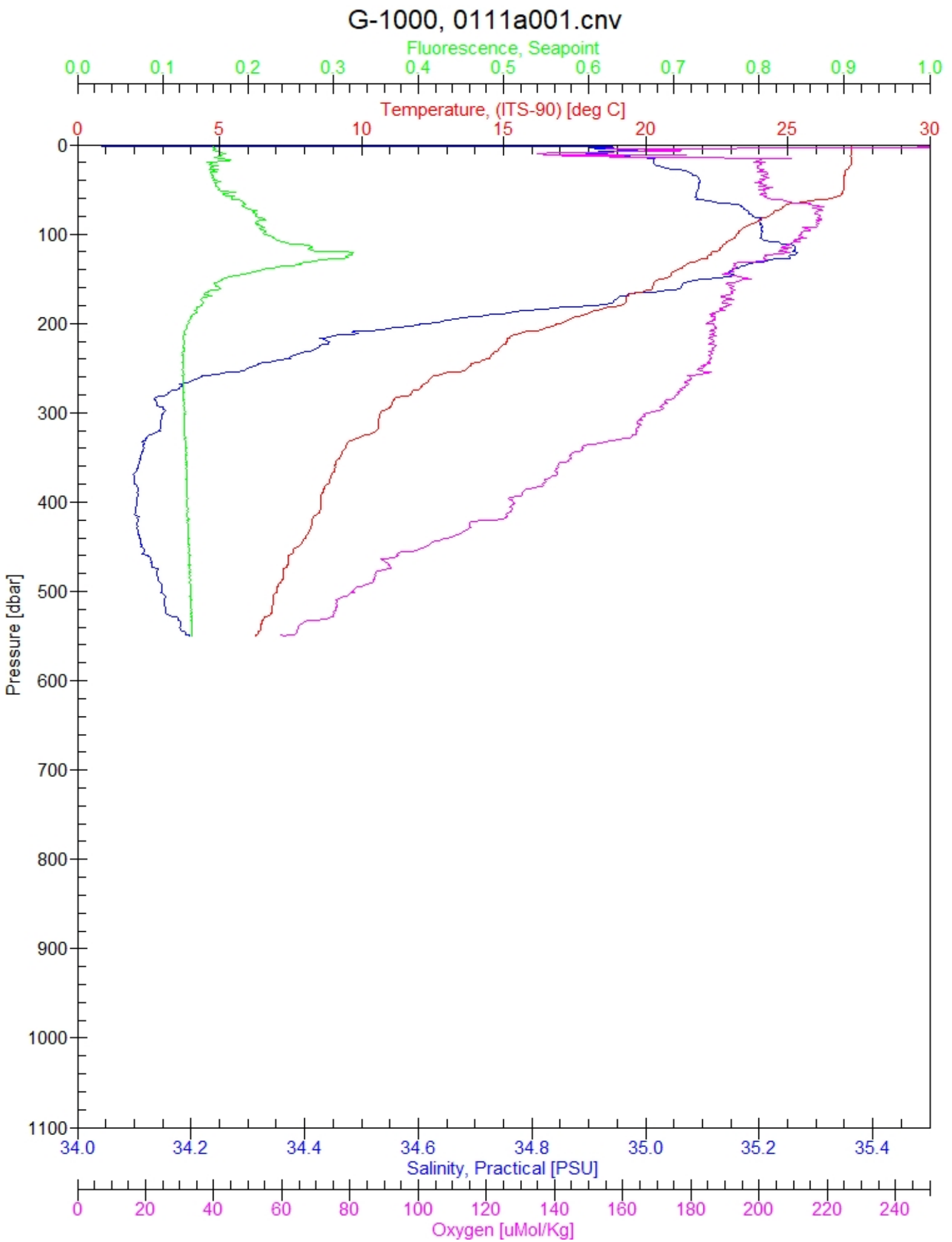

G-1000, 0110a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]

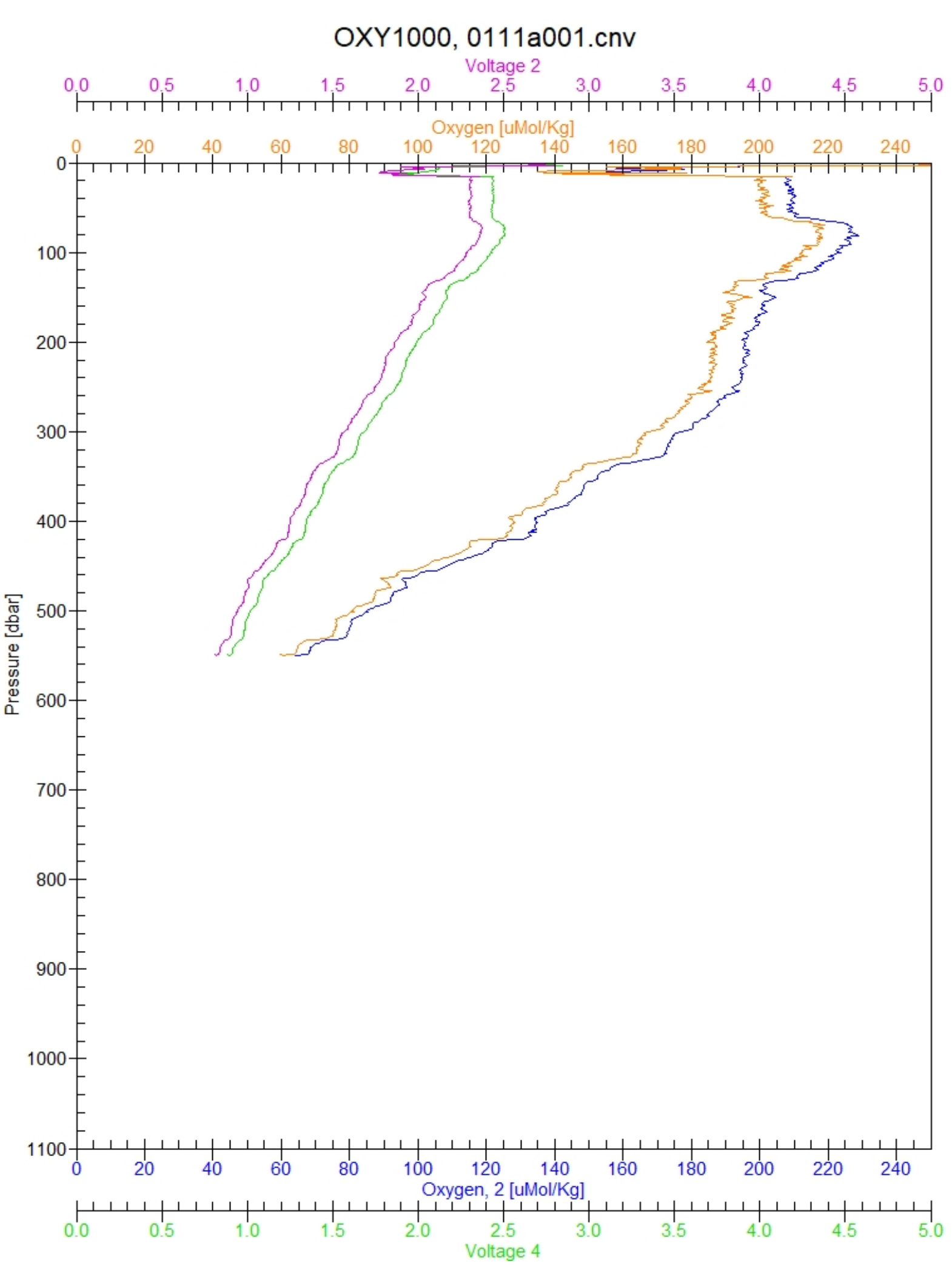

OXY1000, 0110a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
Oxygen, 2 [uMol/Kg]
Voltage 4

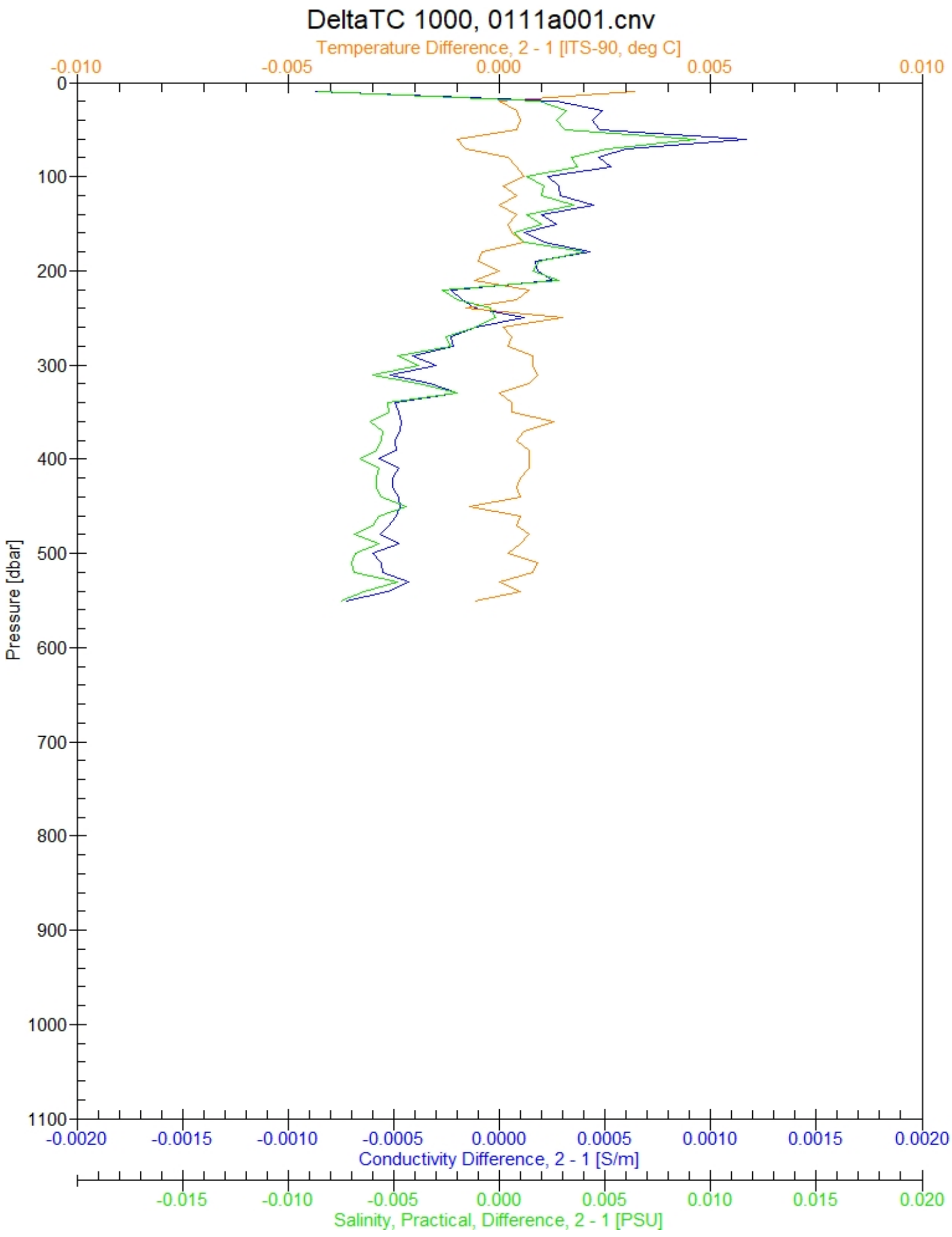

DeltaTC 1000, 0110a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]

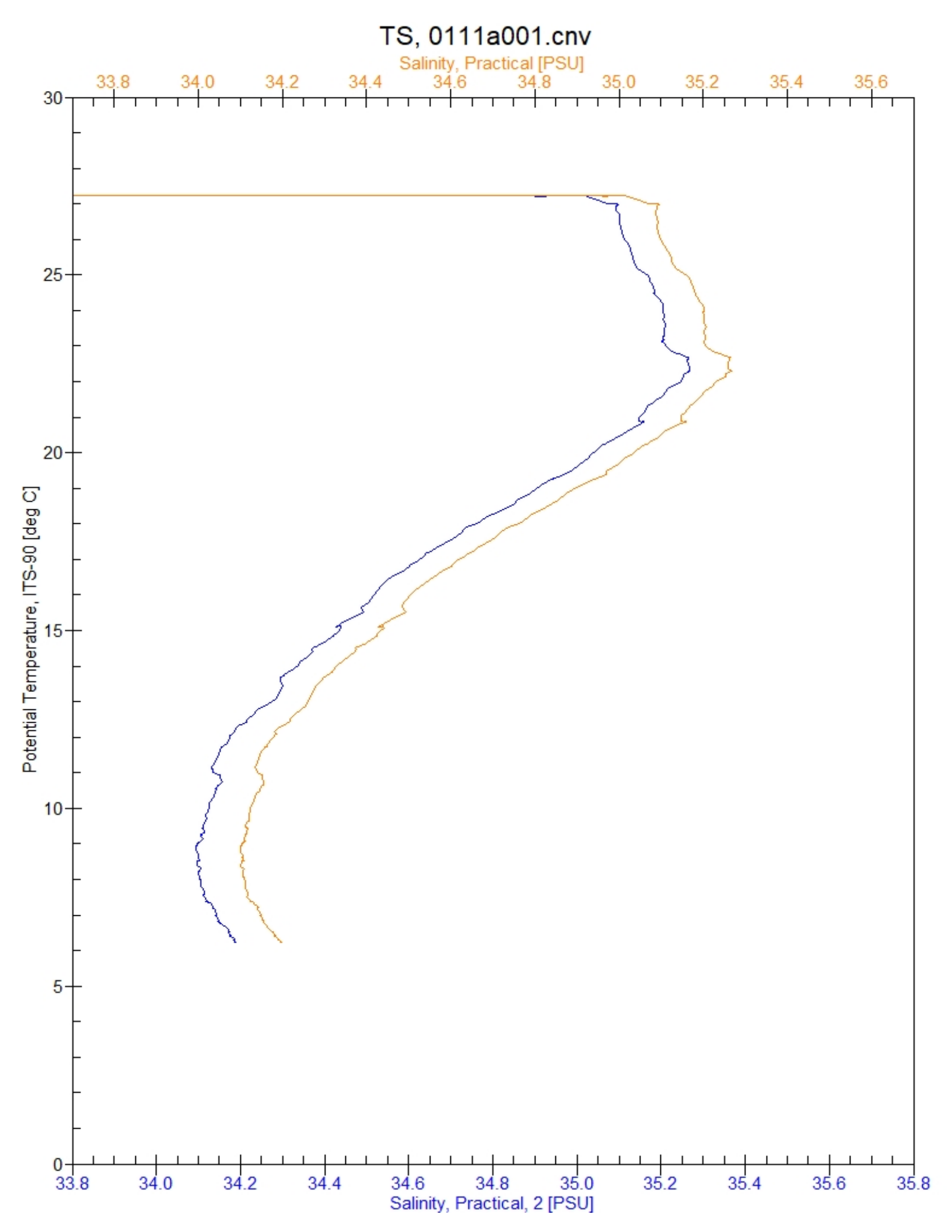

TS, 0110a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]

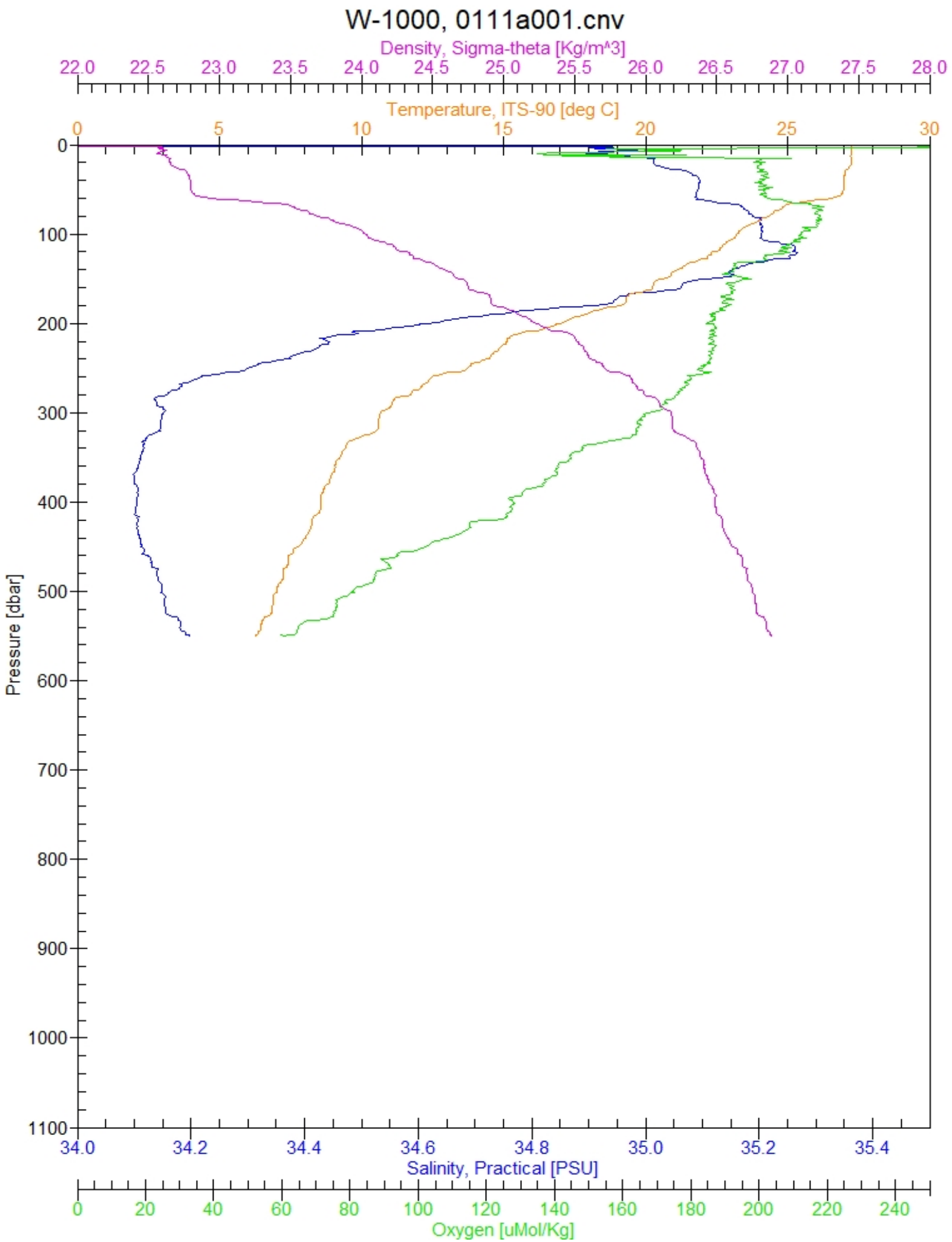

W-1000, 0110a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]


G-1000, 0111a001.cnv
Fluorescence, Seapoint
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Temperature, (ITS-90) [deg C]
0
5
10
15
20
25
30
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
Salinity, Practical [PSU]
0
20
40
60
80
100
120
140
160
180
200
220
240
Oxygen [uMol/Kg]


OXY1000, 0111a001.cnv
Voltage 2
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Oxygen [uMol/Kg]
0 20 40 60 80 100 120 140 160 180 200 220 240
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen, 2 [uMol/Kg]
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Voltage 4


DeltaTC 1000, 0111a001.cnv
Temperature Difference, 2 - 1 [ITS-90, deg C]
-0.010
-0.005
0.000
0.005
0.010
Pressure [dbar]
0
100
200
300
400
500
600
700
800
900
1000
1100
-0.0020
-0.0015
-0.0010
-0.0005
0.0000
0.0005
0.0010
0.0015
0.0020
Conductivity Difference, 2 - 1 [S/m]
-0.015
-0.010
-0.005
0.000
0.005
0.010
0.015
0.020
Salinity, Practical, Difference, 2 - 1 [PSU]


TS, 0111a001.cnv
Salinity, Practical [PSU]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
30
25
20
15
10
5
0
Potential Temperature, ITS-90 [deg C]
33.8
34.0
34.2
34.4
34.6
34.8
35.0
35.2
35.4
35.6
35.8
Salinity, Practical, 2 [PSU]


W-1000, 0111a001.cnv
Density, Sigma-theta [Kg/m^3]
22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0
Temperature, ITS-90 [deg C]
0 5 10 15 20 25 30
Pressure [dbar]
0 100 200 300 400 500 600 700 800 900 1000 1100
34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4
Salinity, Practical [PSU]
0 20 40 60 80 100 120 140 160 180 200 220 240
Oxygen [uMol/Kg]

KAHE

HOT- 366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 61000685 | 12L | 27.90 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 1 | Cast: 1 |
| Latitude start: 21°20.754'N end: | Longitude start: 158°16.1172' W end: |
| Depth of water: 4480 meters | Date (GMT): 9/16/26 |
| Pressure on Deck | Time: |
| Begin: -0.37 End: -0.94 | Start Log: 2354 In Water: 0001 |
| Max cast pressure: 1020 dbar | Out of Water: 0056 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 00:21:43 | 00:22:13 | 1020 | 1000 | |
| 2 | 00:27:27 | 00:27:57 | 750 | 750 | |
| 3 | 00:32:47 | 00:33:18 | 499 | 500 | |
| 4 | 00:36:33 | 00:37:29 | 349 | 350 | |
| 5 | 00:39:50 | 00:40:22 | 249 | 250 | |
| 6 | 00:42:12 | 00:42:43 | 175 | 175 | |
| 7 | 00:43:40 | 00:44:11 | 150 | 150 | |
| 8 | 00:45:09 | 00:45:39 | 125 | 125 | |
| 9 | 00:46:36 | 00:47:08 | 100 | 100 | |
| 10 | 00:48:08 | 00:48:39 | 75 | 75 | |
| 11 | 00:49:41 | 00:50:24 | 44 | 45 | |
| 12 | 00:51:17 | 00:51:49 | 25 | 25 | |
| 13 | 00:53:01 | 00:53:31 | 5 | 5 | |
| 14 | " | 00:53:53 | " | 5 | |
| 15 | " | 00:54:10 | " | 5 | |
| 16 | " | 00:54:18 | " | 5 | |
| 17 | " | 00:54:30 | " | 5 | |
| 18 | " | 00:54:49 | " | 5 | |
| 19 | " | 00:54:58 | " | " | |
| 20 | " | 00:55:05 | " | " | |
| 21 | " | 00:55:12 | " | " | |
| 22 | " | 00:55:20 | " | " | |
| 23 | " | 00:55:28 | " | " | |
| 24 | " | 00:55:36 | " | " | |

| Hawaii Ocean Time Series | | | Station #: 1 | Cast #: 1 | Box #: 2 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | Sampler: | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 25 | | | |
| 2 | 750 | 26 | | | |
| 3 | 500 | 27 | | | |
| 4 | 350 | 28 | | | |
| 5 | 250 | 29 | | | |
| 6 | 175 | 30 | | | |
| 7 | 150 | 31 | | | |
| 8 | 125 | 32 | | | |
| 9 | 100 | 33 | | | |
| 10 | 75 | 34 | | | |
| 11 | 45 | 35 | | | |
| 12 | 25 | 36 | | | |
| 13 | 5 | 37 | | | |
| 14 | 5 | 39 | | | |
| 15 | 5 | 39 | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 61600 | 12L | 23.69 | FSM/MD |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 2 | Cast: 1 |
| Latitude start: 22° 45.009'N end: 22° 44.969'N | Longitude start: 158° 2.198'W end: 158° 2.168'W |
| Depth of water: 4750 meters | Date (GMT): 9/17/26 |
| Pressure on Deck | Time: |
| Begin: -0.4 End: -0.93 | Start Log: 12:03 In Water: Out of Water: 1255 |
| Max cast pressure: 1020 dbar | |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 12:40:52 | 12:41:23 | 175 | 175 | |
| 2 | 〃 | 12:41:32 | 〃 | 175 | |
| 3 | 〃 | 12:41:40 | 〃 | 175 | |
| 4 | 12:42:16 | 12:43:16 | 151 | 150 | |
| 5 | 〃 | 12:43:25 | 〃 | 150 | |
| 6 | 〃 | 12:43:32 | 〃 | 150 | |
| 7 | 12:44:27 | 12:45:01 | 125 | 125 | |
| 8 | 〃 | 12:45:08 | 〃 | 125 | |
| 9 | 〃 | 12:45:16 | 〃 | 125 | |
| 10 | 12:46:17 | 12:46:42 | 100 | 100 | |
| 11 | 〃 | 12:46:51 | 〃 | 100 | |
| 12 | 〃 | 12:46:58 | 〃 | 100 | |
| 13 | 12:47:58 | 12:48:29 | 74 | 75 | |
| 14 | 〃 | 12:48:37 | 〃 | 75 | |
| 15 | 〃 | 12:48:45 | 〃 | 75 | |
| 16 | 12:49:47 | 12:50:18 | 45 | 45 | |
| 17 | 〃 | 12:50:26 | 〃 | 45 | |
| 18 | 〃 | 12:50:34 | 〃 | 45 | |
| 19 | 12:51:37 | 12:52:07 | 25 | 25 | |
| 20 | 〃 | 12:52:16 | 〃 | 25 | |
| 21 | 〃 | 12:52:24 | 〃 | 25 | |
| 22 | 12:53:29 | 12:54:09 | 3 | 5 | |
| 23 | 〃 | 12:54:16 | 〃 | 5 | |
| 24 | 〃 | 12:54:23 | 〃 | 5 | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 1 | Box #: 2-3 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 175 | 40 | | | |
| 2 | 175 | 41 | | | |
| 3 | 175 | 42 | | | |
| 4 | 150 | 43 | | | |
| 5 | 150 | 44 | | | |
| 6 | 150 | 45 | | | |
| 7 | 125 | 46 | | | |
| 8 | 125 | 47 | | | |
| 9 | 125 | 48 | | | |
| 10 | 100 | 49 | | | |
| 11 | 100 | 50 | | | |
| 12 | 100 | 51 | | | |
| 13 | 75 | 52 | | | |
| 14 | 75 | 53 | | | |
| 15 | 75 | 54 | | | |
| 16 | 45 | 55 | | | |
| 17 | 45 | 56 | | | |
| 18 | 45 | 57 | | | |
| 19 | 25 | 58 | | | |
| 20 | 25 | 59 | | | |
| 21 | 25 | 60 | | | |
| 22 | 5 | 61 | | | |
| 23 | 5 | 62 | | | |
| 24 | 5 | 63 | | | |
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HOT- 366

# Hawaii Ocean Time-Series CONSOLE LOG

PO-1 DEEP

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| w3000GPS | 12L | 26.80 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

DCM = ~100

MLI: ~50dbar

Nmax: ~120/490 OMZ: ~150

MAX: 87

| Station: 2 | Cast: 2 |
|---|---|
| Latitude start: 22° 45.004' N end: 22° 45.004' N | Longitude start: 157° 59.993' W end: 157° 59.993' W |
| Depth of water: 4743 meters | Date (GMT): 9 / 17 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.33 End: -0.64 | Start Log: 1459 In Water: 1503 |
| Max cast pressure: 4820 dbar | Out of Water: 1821 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 16:32:34 | 16:33:17 | 4740 | 4800 | |
| 2 | 16:37:11 | 16:37:42 | 4594 | 4600 | |
| 3 | 16:40:04 | 16:40:31 | 4494 | 4500 | |
| 4 | 16:42:47 | 16:43:18 | 4400 | 4400 | |
| 5 | 16:47:25 | 16:47:56 | 4200 | 4200 | |
| 6 | 16:52:18 | 16:52:59 | 4000 | 4000 | |
| 7 | 16:56:53 | 16:57:24 | 3798 | 3800 | |
| 8 | 17:01:34 | 17:02:04 | 3600 | 3600 | |
| 9 | 17:05:49 | 17:06:19 | 3400 | 3400 | |
| 10 | 17:10:17 | 17:10:48 | 3198 | 3200 | |
| 11 | 17:14:39 | 17:15:11 | 2999 | 3000 | |
| 12 | 17:19:07 | 17:19:38 | 2799 | 2800 | |
| 13 | 17:23:33 | 17:24:08 | 2599 | 2600 | |
| 14 | 17:28:00 | 17:28:30 | 2400 | 2400 | |
| 15 | 17:32:39 | 17:33:10 | 2200 | 2200 | |
| 16 | 17:37:05 | 17:37:37 | 1999 | 2000 | |
| 17 | 17:41:21 | 17:41:58 | 1799 | 1800 | |
| 18 | 17:45:51 | 17:46:21 | 1599 | 1600 | |
| 19 | 17:50:21 | 17:50:52 | 1399 | 1400 | |
| 20 | 17:54:59 | 17:55:35 | 1199 | 1200 | |
| 21 | 17:59:35 | 18:00:06 | 1000 | 1000 | |
| 22 | 18:05:01 | 18:05:32 | 750 | 750 | |
| 23 | 18:10:21 | 18:10:52 | 499 | 500 | |
| 24 | 18:22:01 | 18:22:37 | 5 | 5 | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 2 | Box #: 4 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | | Sampler: MD/FP |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 4800 | 73 | | | |
| 2 | 4600 | 74 | | | |
| 3 | 4500 | 75 | | | |
| 4 | 4400 | 76 | | | |
| 5 | 4200 | 77 | | | |
| 6 | 4000 | 78 | | | |
| 7 | 3900 | 79 | | | |
| 8 | 3600 | 80 | | | |
| 9 | 3400 | 81 | | | |
| 10 | 3200 | 82 | | | |
| 11 | 3000 | 83 | | | |
| 12 | 2800 | 84 | | | |
| 13 | 2600 | 85 | | | |
| 14 | 2400 | 86 | | | |
| 15 | 2200 | 87 | | | |
| 16 | 2000 | 88 | | | |
| 17 | 1800 | 89 | | | |
| 18 | 1600 | 90 | | | |
| 19 | 1400 | 91 | | | |
| 20 | 1200 | 92 | | | |
| 21 | 1000 | 93 | | | |
| 22 | 750 | 94 | | | |
| 23 | 500 | 95 | | | |
| 24 | 5 | 96 | | | |
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| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 2 | Box #: 5 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | Sampler: MOI RP | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 4800 | 97 | D | | |
| 2 | 4600 | 98 | U | | |
| 3 | 4500 | 99 | P | | |
| 4 | 4400 | 100 | L | | |
| 5 | 4200 | 101 | I | | |
| 6 | 4000 | 102 | C | | |
| 7 | 3800 | 103 | A | | |
| 8 | 3600 | 104 | T | | |
| 9 | 3400 | 105 | E | | |
| 10 | 3200 | 106 | S | | |
| 11 | 3000 | 107 | | | |
| 12 | 2800 | 108 | | | |
| 13 | 2600 | 109 | | | |
| 14 | 2400 | 110 | | | |
| 15 | 2200 | 111 | | | |
| 16 | 2000 | 112 | | | |
| 17 | 1800 | 113 | | | |
| 18 | 1600 | 114 | | | |
| 19 | 1400 | 115 | | | |
| 20 | 1200 | 116 | | | |
| 21 | 1000 | 117 | | | |
| 22 | 750 | 118 | | | |
| 23 | 500 | 119 | | | |
| 24 | 5 | 120 | | | |
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HOT-356

# Hawaii Ocean Time-Series CONSOLE LOG

PO-2 SHALLOW

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6100dbs | 12L | 26.90 | MD |

- ☐ Pinger
- ☐ Altimeter
- ☐ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☐ PO Fluorometer
- ☐

| Station: 2 | Cast: 3 |
|---|---|
| Latitude start: 22°45.005'N end: 22°45.004'N | Longitude start: 158°00.[illegible]'W end: 158°00.[illegible]'W |
| Depth of water: 4742 meters | Date (GMT): 9/17/26 |
| Pressure on Deck | Time: |
| Begin: -0.21 End: -0.75 | Start Log: 2047 In Water: 2052 |
| Max cast pressure: 1021 dbar | Out of Water: 2261 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 21:14:56 | 21:15:37 | 102' | 1020 | |
| 2 | 21:16:46 | 21:17:47 | 987 | 988 | |
| 3 | 21:19:03 | 21:19:39 | 948 | 948 | |
| 4 | 21:20:57 | 21:21:28 | 907 | 908 | |
| 5 | 21:22:41 | 21:23:15 | 866 | 868 | |
| 6 | 21:24:25 | 21:24:56 | 825 | 828 | |
| 7 | 21:26:19 | 21:26:59 | 781 | 781 | |
| 8 | 21:28:14 | 21:28:45 | 733 | 734 | |
| 9 | 21:30:25 | 21:30:56 | 662 | 662 | |
| 10 | 21:32:02 | 21:32:32 | 626 | 626 | |
| 11 | 21:33:48 | 21:34:45 | 588 | 589 | |
| 12 | 21:35:58 | 21:36:28 | 547 | 549 | |
| 13 | 21:37:50 | 21:38:29 | 500 | 502 | |
| 14 | 21:39:32 | 21:40:18 | 466 | 468 | |
| 15 | 21:42:12 | 21:42:47 | 404 | 404 | |
| 16 | 21:44:22 | 21:44:52 | 335 | 337 | |
| 17 | 21:46:09 | 21:46:40 | 296 | 296 | |
| 18 | 21:48:27 | 21:48:58 | 223 | 225 | |
| 19 | 21:50:32 | 21:51:07 | 167 | 169 | |
| 20 | 21:52:39 | 21:53:09 | 110 | 111 | |
| 21 | 21:54:17 | 21:54:48 | 74 | 76 | |
| 22 | 21:55:36 | 21:56:07 | 59 | 60 | |
| 23 | 21:57:15 | 21:58:06 | 39 | 39 | |
| 24 | 22:00:13 | 22:00:41 | 5 | 5 | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 3 | Box #: 6 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: MDIFF | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 121 | | | |
| 2 | 988 | 122 | | | |
| 3 | 948 | 123 | | | |
| 4 | 908 | 124 | | | |
| 5 | 868 | 125 | | | |
| 6 | 828 | 126 | | | |
| 7 | 781 | 127 | | | |
| 8 | 731 | 128 | | | |
| 9 | 662 | 129 | | | |
| 10 | 626 | 130 | | | |
| 11 | 589 | 131 | | | |
| 12 | 549 | 132 | | | |
| 13 | 502 | 133 | | | |
| 14 | 468 | 134 | | | |
| 15 | 404 | 135 | | | |
| 16 | 337 | 136 | | | |
| 17 | 296 | 137 | | | |
| 18 | 225 | 138 | | | |
| 19 | 159 | 139 | | | |
| 20 | 111 | 140 | | | |
| 21 | 76 | 141 | | | |
| 22 | 60 | 142 | | | |
| 23 | 39 | 143 | | | |
| 24 | 4 | 144 | | | |
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# Hawaii Ocean Time-Series

HOT - 366

| | | | |
|---|---|---|---|
| Station: | 2 | Cast: | 3 |
| Latitude: | 22° 45.005' N | Longitude: | 157° 59.994' W |
| Date: | 2026-09-17 | Time (GMT): | 2052 |
| Operator: | MD | | |

| $\delta_\theta$ | $\sigma_\theta$ | Depth |
|---|---|---|
| 700 | 20.76 | |
| 650 | 21.28 | |
| 600 | 21.80 | |
| 550 | 22.33 | |
| 500 | 22.85 | 39 |
| 450 | 23.37 | 60 |
| 400 | 23.90 | 76 |
| 350 | 24.42 | 111 |
| 300 | 24.95 | 169 |
| 250 | 25.47 | 225 |
| 200 | 26.00 | 296 |
| 180 | 26.21 | 337 |
| 160 | 26.42 | 404 |
| 140 | 26.63 | 468 |
| 130 | 26.73 | 502 |
| 120 | 26.84 | 549 |
| 110 | 26.94 | 589 |
| 100 | 27.05 | 662 |
| 90 | 27.16 | 734 |
| 80 | 27.26 | 828 |
| 70 | 27.37 | 988 |

| | |
|---|---|
| $S_{max}$ | 87 |
| $S_{min}$ | 425 |
| $S_{max}$ | |
| $S_{min}$ | |

| | |
|---|---|
| $O_{max}$ | 67 |
| $O_{min}$ | 210 |
| $O_{max}$ | |
| $O_{min}$ | |
| $O_{max}$ | |

| | |
|---|---|
| $F_{max}$ | 100 |
| $F_{min}$ | |
| $F_{max}$ | |
| $F_{min}$ | |
| $F_{max}$ | |

| Bottle | Depth |
|---|---|
| 1 | 1020 |
| 2 | 988 |
| 3 | 948 |
| 4 | 909 |
| 5 | 868 |
| 6 | 828 |
| 7 | 781 |
| 8 | 734 |
| 9 | 662 |
| 10 | 626 |
| 11 | 589 |
| 12 | 549 |
| 13 | 502 |
| 14 | 468 |
| 15 | 404 |
| 16 | 337 |
| 17 | 296 |
| 18 | 225 |
| 19 | 169 |
| 20 | 111 |
| 21 | 76 |
| 22 | 60 |
| 23 | 39 |
| 24 | 5 |

HOT- 366

# Hawaii Ocean Time-Series CONSOLE LOG

PCPN

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| G1000GPS | 12L | 27.01 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| Station: 2 | Cast: 4 |
|---|---|
| Latitude start: 22° 45.486'N end: 22° 45.487'N | Longitude start: 157° 59.335'W end: 157° 59.384'W |
| Depth of water: 4733 meters | Date (GMT): 9/17/26 |
| Pressure on Deck | Time: |
| Begin: -0.28 End: -0.93 | Start Log: 2342 In Water: 2348 |
| Max cast pressure: 1020 dbar | Out of Water: 0043 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 000917 | 000948 | 1020 | 1020 | |
| 2 | 002051 | 002122 | 409 | 410 | 5 min |
| 3 | 002259 | 002332 | 349 | 350 | |
| 4 | 〃 | 002345 | 〃 | 350 | |
| 5 | 002559 | 002629 | 249 | 250 | |
| 6 | 002754 | 002825 | 198 | 200 | |
| 7 | 002921 | 002951 | 174 | 175 | |
| 8 | 003105 | 003136 | 149 | 150 | |
| 9 | 003250 | 003321 | 125 | 125 | |
| 10 | 003434 | 003505 | 100 | 100 | |
| 11 | 003617 | 003648 | 74 | 75 | |
| 12 | 003814 | 003844 | 45 | 45 | |
| 13 | 〃 | 003953 | 〃 | 45 | |
| 14 | 〃 | 004001 | 〃 | 45 | |
| 15 | 004005 | 004136 | 25 | 25 | |
| 16 | 〃 | 004145 | 〃 | 25 | |
| 17 | 〃 | 004153 | 〃 | 25 | |
| 18 | 004206 | 004236 | 5 | 5 | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 4 | Box #: 7 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | | Sampler: TRIPSM |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 145 | | | |
| 2 | 410 | 146 | 5 min | | |
| 3 | 350 | 147 | | | |
| 4 | 350 | 148 | | | |
| 5 | 250 | 149 | No water left for sal | | |
| 6 | 200 | 150 | No water left for sal | | |
| 7 | 175 | 151 | | | |
| 8 | 150 | 152 | | | |
| 9 | 125 | 153 | | | |
| 10 | 100 | 154 | | | |
| 11 | 75 | 311 | | | |
| 12 | 45 | 156 | | | |
| 13 | — | — | | | |
| 14 | — | — | | | |
| 15 | 25 | 157 | | | |
| 16 | — | — | | | |
| 17 | — | — | | | |
| 18 | 5 | 158 | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6 :000 | 12 L | 27.00 | FS-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| Station: 2 | Cast: 5 |
|---|---|
| Latitude start: 22 43.441 end: | Longitude start: 158° 3.139 end: |
| Depth of water: 4765 meters | Date (GMT): 9 / 18 / 26 |
| Pressure on Deck | Time: |
| Begin: − 0.21 End: − 0.81 | Start Log: 02:54 In Water: 3:01 |
| Max cast pressure: 1020 dbar | Out of Water: 3:55 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 3:21:10 | 3:22:00 | 1020 | 1020 | |
| 2 | 03:33:08 | 3:33:38 | 398 | 400 | 5-min |
| 3 | 3:35:05 | 3:35:35 | 350 | 350 | |
| 4 | 1 | 3:35:45 | 1 | 350 | |
| 5 | 03:37:55 | 03:38:20 | 250 | 250 | |
| 6 | 3:39:42 | 03:40:12 | 199 | 200 | |
| 7 | 3:41:07 | 3:41:27 | 174 | 175 | |
| 8 | 3:42:27 | 3:42:47 | 150 | 150 | |
| 9 | 43:45 | 44:15 | 125 | 125 | |
| 10 | 45:20 | 45:50 | 99 | 100 | |
| 11 | 46:50 | 47:20 | 76 | 75 | |
| 12 | 49:45 | 50:15 | 44 | 45 | |
| 13 | 51:40 | 52:10 | 25 | 25 | |
| 14 | 53:40 | 54:10 | 4 | 5 | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
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| 20 | | | | | |
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| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 5 | Box #: 7-8 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | | Sampler: TR, JSM |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1900 | 159 | | | |
| 2 | 400 | 160 | S-main | | |
| 3 | 350 | 161 | | | |
| 4 | 350 | 162 | | | |
| 5 | 250 | 163 | | | |
| 6 | 200 | 164 | | | |
| 7 | 175 | 165 | | | |
| 8 | 150 | 166 | | | |
| 9 | 125 | 167 | | | |
| 10 | 100 | 168 | | | |
| 11 | 75 | 169 | | | |
| 12 | 45 | 170 | | | |
| 13 | 25 | 171 | | | |
| 14 | 5 | 172 | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
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HOT- 366

BEACH

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 1LL | 26.83 | FS-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| Station: 2 | Cast: 6 |
|---|---|
| Latitude start: 22 42.3905 end: 22 42.3885 | Longitude start: 158 3.866 end: 158 3.8654 |
| Depth of water: 4767 meters | Date (GMT): 9 118 126 |
| Pressure on Deck | Time: |
| Begin: -0.3 End: -0.55 | Start Log: 5:39 In Water: 5:41 |
| Max cast pressure: 1019 dbar | Out of Water: 6:44 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 6:01:35 | 52:05 | 1019 | 1020 | |
| 2 | 8:05 | 8:35 | 700 | 700 | |
| 3 | 14:20 | 14:50 | 399 | 400 | |
| 4 | 18:50 | 19:20 | 200 | 200 | |
| 5 | 20:20 | 20:50 | 175 | 175 | |
| 6 | 21:55 | 22 25 | 164 | 165 | |
| 7 | 23:20 | 23:50 | 150 | 150 | |
| 8 | 24:55 | 25:25 | 130 | 130 | |
| 9 | 26:00 | 26:30 | 125 | 125 | |
| 10 | 2715 | 27:45 | 113 | 115 | |
| 11 | 28:15 | 28:45 | 110 | 110 | |
| 12 | 29 30 | 30:00 | 99 | 100 | |
| 13 | 30 35 | 31:05 | 90 | 90 | |
| 14 | 31:50 | 32:20 | 84 | 85 | |
| 15 | 33:00 | 33:30 | 75 | 75 | |
| 16 | 34:20 | 34:50 | 59 | 60 | |
| 17 | 35:45 | 36:15 | 46 | 45 | |
| 18 | 37:05 | 37:35 | 36 | 35 | |
| 19 | 38:30 | 39:00 | 25 | 25 | |
| 20 | | 10 | 25 | 25 | |
| 21 | 39:55 | 40:25 | 14 | 15 | |
| 22 | 41:20 | 41:50 | 5 | 5 | |
| 23 | 30 | [illegible]:00 | 5 | 5 | |
| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 6 | Box #: |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 173 | | | |
| 2 | 4 | 174 | 02-min | | |
| 3 | 400 | 175 | 5-min | | |
| 4 | 300 | 176 | | | |
| 5 | 175 | 177 | | | |
| 6 | 165 | 178 | | | |
| 7 | 150 | 179 | | | |
| 8 | 130 | 180 | | | |
| 9 | 125 | 181 | | | |
| 10 | 115 | 182 | | | |
| 11 | 110 | 183 | | | |
| 12 | 100 | 184 | | | |
| 13 | 90 | 185 | | | |
| 14 | 85 | 186 | | | |
| 15 | 75 | 187 | | | |
| 16 | 60 | 188 | | | |
| 17 | 45 | 189 | | | |
| 18 | 35 | 190 | | | |
| 19 | 25 | 191 | | | |
| 20 | 25 | 192 | | | |
| 21 | 15 | 193 | | | |
| 22 | 5 | 194 | | | |
| 23 | 5 | 195 | | | |
| 24 | | | | | |
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OPN

HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6 1000 | 12L | 26.82 | ES-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 2 | Cast: 7 |
| Latitude start: 22 44.769 end: 22 44.768 | Longitude start: 158 4.492 end: 158 4.492 |
| Depth of water: 4762 meters | Date (GMT): 9 / 18 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.35 End: -1.1 | Start Log: 09:07 In Water: 09:18 Out of Water: 10:05 |
| Max cast pressure: 1021 dbar | |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 9:40:40 | 41:10 | 1021 | 1020 | |
| 2 | 54:10 | 52:40 | 426 | 425 | 5 min |
| 3 | 59:10 | 59:50 | 73 | 75 | 5-max |
| 4 | 3:15 | 7:45 | 6 | 5 | |
| 5 | | | | | |
| 6 | | | | | |
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| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
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| 23 | | | | | |
| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 7 | Box #: 9 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: TR | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 196 | | | |
| 2 | 425 | 197 | 5- min | | |
| 3 | 75 | 198 | 5- max | | |
| 4 | 5 | 199 | | | |
| 5 | | | | | |
| 6 | | | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

GAS ARRAY

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 12 L | 26.80 | TS-YM/MD |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 2 | Cast: 8 |
| Latitude start: 22 44.769 end: 22° 44.768'N | Longitude start: 158 4.4888 end: 158° 4.489'W |
| Depth of water: 4761 meters | Date (GMT): 9/18/26 |
| Pressure on Deck | Time: |
| Begin: -0.25 End: -0.89 | Start Log: 11:50 In Water: 11:56 |
| Max cast pressure: 1020 dbar | Out of Water: 1247 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 12:16:20 | 16:50 | 1020 | 1020 | |
| 2 | 27:25 | 27:55 | 424 | 425 | 5-min |
| 3 | 123235 | 123307 | 175 | 175 | |
| 4 | 123401 | 123431 | 148 | 150 | |
| 5 | 123527 | 123600 | 124 | 125 | |
| 6 | " | 123612 | " | 125 | |
| 7 | " | 123620 | " | 125 | |
| 8 | " | 123627 | " | 125 | |
| 9 | 123720 | 123752 | 100 | 100 | |
| 10 | " | 123803 | " | 100 | |
| 11 | " | 123810 | " | 100 | |
| 12 | " | 123820 | " | 100 | |
| 13 | 123907 | 123937 | 76 | 75 | |
| 14 | " | 123948 | " | 75 | |
| 15 | " | 123955 | " | 75 | |
| 16 | 124052 | 124122 | 45 | 45 | |
| 17 | " | 124132 | " | 45 | |
| 18 | " | 124139 | " | 45 | |
| 19 | 124237 | 124307 | 25 | 25 | |
| 20 | " | 124317 | " | 25 | |
| 21 | " | 124324 | " | 25 | |
| 22 | 124455 | 124533 | 3 | 5 | |
| 23 | " | 124542 | " | 5 | |
| 24 | " | 124550 | " | 5 | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 2 | Box #: 9-10 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 266 | Sampler: | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 200 | | | |
| 2 | 425 | 201 | [illegible] | | |
| 3 | " | " | | | |
| 4 | " | " | | | |
| 5 | " | " | | | |
| 6 | 125 | 202 | NO WATER | | |
| 7 | 125 | 203 | | | |
| 8 | 125 | 204 | | | |
| 9 | ——— | ——— | | | |
| 10 | 100 | 205 | NO WATER | | |
| 11 | 100 | 206 | | | |
| 12 | 100 | 207 | | | |
| 13 | 75 | 208 | | | |
| 14 | 75 | 209 | | | |
| 15 | 75 | 210 | | | |
| 16 | 45 | 211 | | | |
| 17 | 45 | 212 | | | |
| 18 | 45 | 213 | | | |
| 19 | 25 | 214 | | | |
| 20 | 25 | 215 | | | |
| 21 | 25 | 216 | | | |
| 22 | 5 | 217 | | | |
| 23 | 5 | 218 | | | |
| 24 | 5 | 219 | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

OPEN

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 8/1000 6PS | 12L | 26.81 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 2 | Cast: 9 |
| Latitude start: 22° 44.839'N end: 22° 44.838'N | Longitude start: 158° 4.154'W end: 158° 4.151'W |
| Depth of water: 4760 meters | Date (GMT): 9 / 18 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.42 End: -1.1 | Start Log: 1413 In Water: 1418 Out of Water: 1531 |
| Max cast pressure: 1020 dbar | |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 150911 | 150941 | 1020 | 1000 | |
| 2 | 152006 | 152036 | 434 | 435 | 5 min |
| 3 | 152914 | 152945 | 6 | 5 | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
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| 23 | | | | | |
| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 9 | Box #: 10 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: MD | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 220 | | | |
| 2 | 435 | 221 | 5 min | | |
| 3 | 5 | 222 | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

PSi

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6 1000605 | 12 L | 26.92 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 2 | Cast: 10 |
| Latitude start: 22° 45.623'N end: 22° 45.623'N | Longitude start: 158° 0.810'W end: 158° 0.810'W |
| Depth of water: 4744 meters | Date (GMT): 9 / 18 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.35 End: -0.97 | Start Log: 1743 In Water: 1747 |
| Max cast pressure: 1020 dbar | Out of Water: 1837 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 180803 | 180833 | 1020 | 1000 | |
| 2 | 181856 | 181929 | 434 | 435 | 5 m.m |
| 3 | 182431 | 182501 | 175 | 175 | |
| 4 | 182614 | 182647 | 150 | 150 | |
| 5 | 182745 | 182815 | 125 | 125 | |
| 6 | 182926 | 182956 | 100 | 100 | |
| 7 | 183054 | 183125 | 75 | 75 | |
| 8 | 183221 | 183252 | 45 | 45 | |
| 9 | 183353 | 183426 | 25 | 25 | |
| 10 | 183536 | 183609 | 5 | 5 | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
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| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 10 | Box #: 10 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | Sampler: MDIFP | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 223 | | | |
| 2 | 435 | 224 | 5min | | |
| 3 | 175 | 225 | | | |
| 4 | 150 | 226 | | | |
| 5 | 125 | 227 | | | |
| 6 | 100 | 228 | | | |
| 7 | 75 | 229 | | | |
| 8 | 45 | 230 | | | |
| 9 | 25 | 231 | | | |
| 10 | 5 | 232 | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
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HOT-366

OPEN

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6100GPS | 12L | 26.81 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 2 | Cast: 11 |
| Latitude start: 22°45.622'N end: 22°45.622'N | Longitude start: 158° 0.841'W end: 158° 0.841'W |
| Depth of water: 4742 meters | Date (GMT): 9 / 18 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.28 | Start Log: 2036 |
| End: -1.13 | In Water: 2041 |
| Max cast pressure: 1020 dbar | Out of Water: 2125 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 210218 | 210403 | 1020 | 1000 | |
| 2 | 211425 | 211456 | 434 | 435 | 5 min |
| 3 | 212335 | 212406 | 5 | 5 | |
| 4 | " | 212417 | " | 5 | |
| 5 | " | 212424 | " | 5 | |
| 6 | " | 212431 | " | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 11 | Box #: 10 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | Sampler: MD | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 233 | | | |
| 2 | 435 | 234 | 5 min | | |
| 3 | 5 | 235 | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

ATP

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| E1600GPS | 12L | 26.95 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 2 | Cast: 12 |
| Latitude start: 22° 45.578'N end: 22°45.578'N | Longitude start: 157°58.802'W end: 157°58.808'W |
| Depth of water: 4731 meters | Date (GMT): 9 / 18 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.27 End: -0.92 | Start Log: 2349 In Water: 2354 |
| Max cast pressure: 1020 dbar | Out of Water: 0047 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 001542 | 001613 | 1020 | 1000 | |
| 2 | 002702 | 002732 | 408 | 410 | 5min |
| 3 | 002911 | 002941 | 349 | 350 | |
| 4 | 003154 | 003225 | 249 | 250 | |
| 5 | 003412 | 003442 | 176 | 175 | |
| 6 | 003600 | 003630 | 151 | 150 | |
| 7 | 〃 | 003638 | 〃 | 150 | |
| 8 | 003733 | 003803 | 126 | 125 | |
| 9 | 〃 | 003812 | 〃 | 125 | |
| 10 | 003914 | 003945 | 100 | 100 | |
| 11 | 〃 | 003954 | 〃 | 100 | |
| 12 | 004110 | 004141 | 74 | 75 | |
| 13 | 〃 | 004149 | 〃 | 75 | |
| 14 | 004249 | 004320 | 46 | 45 | |
| 15 | 〃 | 004328 | 〃 | 45 | |
| 16 | 004427 | 004500 | 26 | 25 | |
| 17 | 〃 | 004508 | 〃 | 25 | |
| 18 | 004620 | 004651 | 4 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 12 | Box #: 10/11 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | | Sampler: TR / FSM |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 236 | | | |
| 2 | 410 | 237 | 5 min | | |
| 3 | 350 | 238 | | | |
| 4 | 250 | 239 | | | |
| 5 | — | — | | | |
| 6 | — | — | | | |
| 7 | 150 | 240 | | | |
| 8 | — | — | | | |
| 9 | 125 | 241 | | | |
| 10 | — | — | | | |
| 11 | 100 | 242 | | | |
| 12 | — | — | | | |
| 13 | 75 | 243 | | | |
| 14 | — | — | | | |
| 15 | 45 | 244 | | | |
| 16 | — | — | | | |
| 17 | 25 | 245 | | | |
| 18 | 5 | 246 | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 12 L | 26.90 | FS-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ DAR

| | |
|---|---|
| Station: 2 | Cast: 13 |
| Latitude start: 22 47.526 end: 22 47.526 | Longitude start: 158 4.661 end: 158 4.662 |
| Depth of water: 4753 meters | Date (GMT): 9 1 19126 |
| Pressure on Deck | Time: |
| Begin: -0.3 End: -1.05 | Start Log: 02:56 In Water: 02 58 |
| Max cast pressure: 1021 dbar | Out of Water: 03:42 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 3:18:45 | 19:15 | 1021 | 1020 | |
| 2 | 3:29:55 | 3:30:25 | 425 | 425 | S-min |
| 3 | 3:36:55 | 3:37:25 | 88 | 90 | S-max |
| 4 | 3:40:00 | 3:40:20 | 5 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 13 | Box #: 11 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | | Sampler: TC |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 247 | | | |
| 2 | 425 | 248 | 5-min | | |
| 3 | 90 | 249 | 5-max | | |
| 4 | 5 | 250 | | | |
| 5 | | | | | |
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HOT- 366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 12L | 26.82 | TSM |

- ☐ Pinger
- ☐ Altimeter
- ☐ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☐ PO Fluorometer
- ☐

HRC

| Station: 2 | Cast: 141 |
|---|---|
| Latitude start: 22 45.004 end: 22 45.005 | Longitude start: 158 0.000 end: 158 59.995 |
| Depth of water: 4744 meters | Date (GMT): 9/19/05 |
| Pressure on Deck | Time: |
| Begin: -0.35 End: -0.70 | Start Log: 05:54 In Water: 06:05 |
| Max cast pressure: 1020 dbar | Out of Water: 07:03 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 27:25 | 27:55 | 1019 | 1020 | |
| 2 | 39:00 | 39:30 | 400 | 400 | |
| 3 | 44:00 | 44:30 | 175 | 175 | |
| 4 | 45:30 | 46:00 | 149 | 150 | |
| 5 | 46:45 | 47:15 | 131 | 125 | |
| 6 | 48:30 | 49:00 | 123 | 125 | |
| 7 | 49:40 | 50:10 | 116 | 115 | |
| 8 | 51:10 | 51:40 | 101 | 100 | |
| 9 | 52:05 | 53:05 | 85 | 85 | |
| 10 | 53:50 | 54:20 | 75 | 75 | |
| 11 | 55:10 | 55:50 | 61 | 60 | |
| 12 | 56:45 | 57:15 | 44 | 45 | |
| 13 | 58:05 | 58:35 | 25 | 25 | |
| 14 | 7:01:30 | 02:00 | 6 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 14 | Box #: 1 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- [illegible] | Sampler: FS-M, TR | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 251 | | | |
| 2 | 400 | [illegible] | [illegible] | | |
| 3 | 175 | [illegible] | | | |
| 4 | 150 | [illegible] | | | |
| 5 | 135 | 255 | | | |
| 6 | 125 | 256 | | | |
| 7 | 115 | 257 | | | |
| 8 | 100 | 258 | | | |
| 9 | 85 | 259 | | | |
| 10 | 75 | 260 | | | |
| 11 | 60 | 261 | | | |
| 12 | 45 | 262 | | | |
| 13 | 25 | 263 | | | |
| 14 | 5 | 264 | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

P02 - Deep

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| [illegible] | [illegible] | 26.76 | TS-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 2 | Cast: 15 |
| Latitude start: 22 44.99 end: 22 44.992 | Longitude start: 158 0.00 55 end: 158 0.0015 |
| Depth of water: 4743 meters | Date (GMT): 1/19/26 |
| Pressure on Deck | Time: |
| Begin: -0.32 End: -0.55 | Start Log: 09:05 In Water: 09:08 |
| Max cast pressure: 4801 dbar | Out of Water: 12:13 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 10:40:20 | 10:40:20 | 4801 | 4700 | |
| 2 | 10:54:00 | 10:54:30 | 3999 | 4000 | |
| 3 | 11:11:55 | 11:12:25 | 2999 | 3000 | |
| 4 | 29:50 | 30:20 | 2000 | 2000 | |
| 5 | 52:40 | 53:10 | 719 | 720 | O2-min |
| 6 | 59:10 | 59:50 | 399 | 400 | 5-min |
| 7 | 6:10 | 6:40 | 75 | 75 | O2-max |
| 8 | 9:55 | 10:25 | 5 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 2 | Cast #: 15 | Box #: 12 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: FS-MTR | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 4700 | 265 | | | |
| 2 | 4000 | 266 | | | |
| 3 | 3000 | 267 | | | |
| 4 | 2000 | 268 | | | |
| 5 | 720 | 269 | O2 duplicate | | |
| 6 | 400 | 270 | S- duplicate | | |
| 7 | 75 | 271 | O2 - Index | | |
| 8 | 5 | 272 | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| CTDOPS | 12L | 26.68 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 50 | Cast: 1 |
| Latitude start: 22° 45.396'N end: 22° 45.3[illegible]'N | Longitude start: 158° 56.351'W end: 158° 56.[illegible]'W |
| Depth of water: 4723 meters | Date (GMT): 9 / 19 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.33 End: -0.34 | Start Log: 1859 In Water: 1905 |
| Max cast pressure: [illegible] dbar | Out of Water: 1957 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 195609 | 195640 | 3 | 5 | |
| 2 | | | | | |
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HOT-___

# Hawaii Ocean Time-Series CONSOLE LOG

OPEN

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| [illegible] | [illegible] | 26.5 | [illegible] |

- ☐ Pinger
- ☐ Altimeter
- ☒ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☒ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 2 | Cast: 1 |
| Latitude start: [illegible] end: 21° 0' 2.735 N | Longitude start: 157° [illegible] end: 157° [illegible] W |
| Depth of water: [illegible] meters | Date (GMT): 9 / 19 / 26 |
| Pressure on Deck | Time: |
| Begin: [illegible] | Start Log: 2252 |
| End: -0.30 | In Water: [illegible] |
| Max cast pressure: 200 dbar | Out of Water: 2309 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 230249 | 230320 | 199 | 200 | |
| 2 | 230815 | 230846 | 2 | 3 | |
| 3 | 1 | 230901 | 1 | 2 | |
| 4 | 1 | 230908 | 1 | 3 | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 12L | 26.80 | ±5-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

Start A2K1 transect at the center of ALOHA Sta.

| Station: 100 | Cast: 1 |
|---|---|
| Latitude start: 22 45.003 end: 22 45.0039 | Longitude start: 157 59.995 end: 157 59.996 |
| Depth of water: 4742 meters | Date (GMT): 9 120 126 |
| Pressure on Deck | Time: |
| Begin: -0.45 End: -1.2 | Start Log: 7:52 In Water: 8:06 |
| Max cast pressure: 1020 dbar | Out of Water: 8:51 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 8:27:45 | 28:15 | 1020 | 1020 | |
| 2 | 39:10 | 39:40 | 409 | 410 | 5-min |
| 3 | 45:40 | 46:10 | 90 | 90 | 5-max |
| 4 | 50:10 | 50:40 | 8 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 100 | Cast #: 1 | Box #: 12 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: TK, FSM | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 273 | | | |
| 2 | 410 | 274 | S-min | | |
| 3 | 90 | 275 | S-max | | |
| 4 | 5 | 276 | | | |
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HOT- 366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| G-1000 | 12 L | 26.71 | FS-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 101 | Cast: 1 |
| Latitude start: 22 40.0002 end: 22 40.0016 | Longitude start: 158 0.011 end: 158 0.011 |
| Depth of water: 4751 meters | Date (GMT): 9/20/26 |
| Pressure on Deck | Time: |
| Begin: -0.25 End: -1.1 | Start Log: 9:56 In Water: 10:00 |
| Max cast pressure: 1020 dbar | Out of Water: 10:45 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 10:22:35 | 23:05 | 1020 | 1020 | |
| 2 | 34:65 | 34:35 | 398 | 400 | S-min |
| 3 | 40:45 | 41:15 | 71 | 70 | S-max |
| 4 | 43:15 | 43:45 | 6 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 101 | Cast #: 1 | Box #: |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | Sampler: | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 277 | | | |
| 2 | | 278 | 5-min | | |
| 3 | | 279 | 5-max | | |
| 4 | 5 | 280 | | | |
| 5 | | | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 12L | 26.72 | FS-M/[illegible] |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 102 | Cast: 1 |
| Latitude start: 22 54.983 end: [illegible] | Longitude start: 158 0.0018 end: 158° 0.207' W |
| Depth of water: 4791 meters | Date (GMT): 9 / 20 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.15 End: -1.0 | Start Log: 11:53 In Water: 12:00 Out of Water: 12:53 |
| Max cast pressure: 1020 dbar | |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 12:21:45 | 22:15 | 1020 | 1020 | |
| 2 | 25:00 | 25:30 | 901 | 900 | |
| 3 | 28:50 | 29:20 | 748 | 750 | |
| 4 | 123410 | 123411 | [illegible] | 500 | |
| 5 | 123715 | 123735 | [illegible] | 400 | |
| 6 | 124044 | 124115 | 250 | 250 | |
| 7 | 124346 | 124411 | 150 | 150 | |
| 8 | 124530 | 124603 | 125 | 125 | |
| 9 | 〃 | 124611 | 〃 | 125 | |
| 10 | 124733 | 124804 | 99 | 100 | |
| 11 | 〃 | 124813 | 〃 | 100 | DCM |
| 12 | 〃 | 124820 | 〃 | 100 | |
| 13 | 125149 | 125211 | 4 | 5 | |
| 14 | 〃 | 125222 | 〃 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 102 | Cast #: 1 | Box #: 12 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-300 | | Sampler: MD, FCP |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 281 | | | |
| 2 | 900 | 282 | | | |
| 3 | 750 | 283 | | | |
| 4 | 500 | 284 | | | |
| 5 | 400 | 285 | S-MIX | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | 125 | 286 | | | |
| 10 | 100 | 287 | | | |
| 11 | | | | | |
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| 14 | 5 | 288 | | | |
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| Hawaii Ocean Time Series | | | Station #: | Cast #: | Box #: |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- | Sampler: | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | | | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| | | | |

- ☐ Pinger
- ☐ Altimeter
- ☒ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: | Cast: 1 |
| Latitude start: [illegible] end: 22° 25.002 N | Longitude start: [illegible] end: 157°59.993 W |
| Depth of water: 1186 meters | Date (GMT): 9/20/06 |
| Pressure on Deck | Time: |
| Begin: -0.23 End: -0.66 | Start Log: 1551 In Water: 1539 |
| Max cast pressure: 1019 dbar | Out of Water: 1635 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 155839 | 155910 | 1019 | 1000 | |
| 2 | 160144 | 160250 | 900 | 900 | |
| 3 | 160551 | 160622 | 748 | 750 | |
| 4 | 161102 | 161133 | 498 | 500 | |
| 5 | 161414 | 161452 | 364 | 365 | |
| 6 | 161719 | 161750 | 249 | 250 | |
| 7 | 162003 | 162034 | 151 | 150 | |
| 8 | 162134 | 162205 | 124 | 125 | |
| 9 | 162259 | 162329 | 99 | 100 | DCM |
| 10 | 1 | 162339 | 1 | 100 | |
| 11 | 162533 | 162604 | 81 | 80 | SMAX |
| 12 | 162723 | 122755 | 75 | 75 | |
| 13 | 162833 | 162913 | 69 | 70 | O2 MAX |
| 14 | 163101 | 163132 | 5 | 5 | |
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| Hawaii Ocean Time Series | | | Station #: 104 | Cast #: 1 | Box #: 13 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT-366 | Sampler: MM/FP | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 295 | | | |
| 2 | 900 | 294 | | | |
| 3 | 700 | 295 | | | |
| 4 | 500 | 296 | | | |
| 5 | 365 | 297 | 5 min | | |
| 6 | — | — | | | |
| 7 | — | — | | | |
| 8 | — | — | | | |
| 9 | — | — | " " | | |
| 10 | — | — | " " | | |
| 11 | 80 | 298 | S/MAX | | |
| 12 | — | — | | | |
| 13 | 70 | 299 | O2 MAX | | |
| 14 | 5 | 300 | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6000 6PS | 12L | 25.7 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 105 | Cast: 1 |
| Latitude start: 22° 19.998 N<br>end: 22° 20.002 N | Longitude start: 157° 59.943<br>end: 157° 59.9[illegible] W |
| Depth of water: 4867 meters | Date (GMT): 9/20/26 |
| Pressure on Deck | Time: |
| Begin: -0.15<br>End: -1.15 | Start Log: 1745<br>In Water: 1750 |
| Max cast pressure: 1019 dbar | Out of Water: 1833 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 181050 | 181138 | 1019 | 1000 | |
| 2 | 182314 | 182346 | 360 | 360 | Surf |
| 3 | 182911 | 182942 | 74 | 75 | Surf |
| 4 | 183151 | 183227 | 4 | 5 | |
| 5 | | | | | |
| 6 | | | | | |
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| Hawaii Ocean Time Series | | | Station #: 109 | Cast #: 1 | Box #: 13 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 363 | | Sampler: FP [illegible] |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 301 | | | |
| 2 | 360 | 302 | 5 min | | |
| 3 | 75 | 303 | 5 min | | |
| 4 | 5 | 304 | | | |
| 5 | | | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| CTD06PS | 12L | 26.68 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 106 | Cast: 1 |
| Latitude start: 22° 14.941'N end: 22°14.939'N | Longitude start: 157° 59.968'W end: 157° 59.[illegible]'W |
| Depth of water: 4822 meters | Date (GMT): 9 / 20 / 26 |
| Pressure on Deck | Time: |
| Begin: -0.2 End: -1.0 | Start Log: 1935 - In Water: 1938 |
| Max cast pressure: 1020 dbar | Out of Water: 2022 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 195831 | 195902 | 1018 | 1000 | |
| 2 | 201000 | 201034 | 415 | 415 | 5 min |
| 3 | 201641 | 201711 | 89 | 90 | 5 max |
| 4 | 201905 | 202025 | 3 | 5 | |
| 5 | | | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6100GPS | 12L | 26.79 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| Station: 107 | Cast: 1 |
|---|---|
| Latitude start: 22° 9.000'N end: 22° 9.972'N | Longitude start: 158° 0.002'W end: 158° 0.001'W |
| Depth of water: 1790 meters | Date (GMT): 9/20/26 |
| Pressure on Deck | Time: |
| Begin: -0.13 End: -0.66 | Start Log: 2111 - In Water: 2119 |
| Max cast pressure: 1021 dbar | Out of Water: 2219 |

DCM 105 SA MAX 70
$O_2$ MAX 85 SA MIN = 34.5

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 214213 | 214246 | 1021 | 1000 | |
| 2 | 214513 | 214546 | 897 | 900 | |
| 3 | 214852 | 214926 | 750 | 750 | |
| 4 | 215415 | 215452 | 501 | 500 | |
| 5 | 215732 | 215802 | 384 | 389 | SAMP |
| 6 | 220050 | 220236 | 249 | 250 | |
| 7 | 220550 | 220620 | 149 | 150 | |
| 8 | 220610 | 220636 | 125 | 125 | |
| 9 | 220744 | 220816 | 105 | 105 | DCM |
| 10 | 220903 | 220935 | 90 | 100 | |
| 11 | 221027 | 221057 | 76 | 75 | |
| 12 | 221250 | 221324 | 70 | 70 | $O_2$ MAX & SMAX |
| 13 | 221742 | 221823 | 5 | 5 | |
| 14 | | | | | |
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| Hawaii Ocean Time Series | | | Station #: 102 | Cast #: 1 | Box #: 13/14 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- [illegible] | Sampler: [illegible] | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1000 | 309 | | | |
| 2 | 400 | 310 | | | |
| 3 | [illegible] | 313 | 150x [illegible] | | |
| 4 | [illegible] | 311 | | | |
| 5 | 385 | 315 | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | 70 | 316 | | | |
| 13 | 5 | 317 | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 61000605 | 12 L | 26.92 | MD |

- ☐ Pinger
- ☑ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐

| | |
|---|---|
| Station: 108 | Cast: 1 |
| Latitude start: 22° 5.015'N<br>end: 22° 5.048'N | Longitude start: 158° 0.042'W<br>end: 158° 0.018'W |
| Depth of water: [illegible] meters | Date (GMT): 9 / 20 / 06 |
| Pressure on Deck | Time: |
| Begin: 0.02<br>End: −0.94 | Start Log: 2308<br>In Water: 2315 |
| Max cast pressure: 1021 dbar | Out of Water: 0009 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 232621 | 232657 | 1021 | 1000 | |
| 2 | 234223 | 234302 | 749 | 750 | |
| 3 | 234754 | 234859 | 501 | 500 | |
| 4 | 235224 | 235255 | 345 | 345 | 5 min |
| 5 | 235310 | 235348 | 251 | 250 | |
| 6 | 235810 | 235840 | 148 | 150 | |
| 7 | 235953 | 240024 | 125 | 125 | |
| 8 | 004140 | 004210 | 101 | 100 | DCM |
| 9 | 1 | 004219 | 1 | 100 | |
| 10 | 000323 | 000351 | 80 | 80 | 5 min |
| 11 | 000423 | 000453 | 75 | 75 | |
| 12 | 000734 | 000804 | 5 | 5 | |
| 13 | | | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6 1000 | 12 L | 26.95 | F.S-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☐ PAR

| Station: 109 | Cast: 1 |
|---|---|
| Latitude start: 22 0.0068 end: 22 0.054 | Longitude start: 158 0.042 end: 158 0.048 |
| Depth of water: 4043 meters | Date (GMT): 9/21/26 |
| Pressure on Deck | Time: |
| Begin: −0.2 End: −0.6 | Start Log: 01:02 In Water: 01:16 |
| Max cast pressure: 1020 dbar | Out of Water: 2:20 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 1:39:30 | 40:00 | 1020 | 1020 | |
| 2 | 46:00 | 46:20 | 749 | 750 | |
| 3 | 52:25 | 52:35 | 500 | 500 | |
| 4 | 56:20 | 57:00 | 351 | 350 | 5-min |
| 5 | 59:35 | 00:05 | 251 | 250 | |
| 6 | 2:40 | 3:10 | 150 | 150 | |
| 7 | 5:10 | 5:40 | 126 | 125 | |
| 8 | 7:00 | 7:30 | 111 | 110 | ] |
| 9 | | :40 | 111 | 110 | DCM ] |
| 10 | 8:40 | 9:34 | 99 | 100 | |
| 11 | | 12:05 | 75 | 75 | |
| 12 | 16:40 | 17:10 | 7 | 5 | |
| 13 | | | | | |
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HOT-366

# Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| 6-1000 | 12L | 26.90 | TS-M |

- ☐ Pinger
- ☐ Altimeter
- ☒ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☒ PO Fluorometer
- ☐ PAR

| Station: 110 | Cast: 1 |
|---|---|
| Latitude start: 21 55.0025 end: 21 55.0036 | Longitude start: 157 59.994 end: 157 59.995 |
| Depth of water: 3149 meters | Date (GMT): 9 12 1 26 |
| Pressure on Deck | Time: |
| Begin: -0.2 End: -1.0 | Start Log: 3:55 In Water: 3:58 Out of Water: 4:50 |
| Max cast pressure: 1020 dbar | |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | 4:18:20 | 18:50 | 1019 | 1020 | |
| 2 | 21:20 | 21:50 | 899 | 900 | |
| 3 | 24:50 | 25:20 | 751 | 750 | |
| 4 | 30:00 | 30:30 | 499 | 500 | |
| 5 | 33:15 | 33:45 | 376 | 375 | 5-min |
| 6 | 34:20 | 34:50 | 251 | 250 | |
| 7 | 39:50 | 40:00 | 150 | 150 | |
| 8 | 40:55 | 41:25 | 124 | 125 | ] |
| 9 | " | 25 | 124 | 125 | ] |
| 10 | 42:20 | 42:50 | 109 | 110 | ] |
| 11 | | 00 | 109 | 110 | 1CM ] |
| 12 | 44:10 | 44:40 | 101 | 100 | |
| 13 | 48:55 | 49:25 | 6 | 5 | ] |
| 14 | | 35 | 6 | 5 | ] |
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| Hawaii Ocean Time Series | | | Station #: 110 | Cast #: 1 | Box #: 14 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 266 | Sampler: TR. ESM | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 1020 | 326 | | | |
| 2 | 900 | 327 | | | |
| 3 | 750 | 328 | | | |
| 4 | 500 | 329 | | | |
| 5 | 375 | 360 | 5-min | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | 125 | 331 | | | |
| 10 | 110 | 332 | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | 5 | 333 | | | |
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HOT-366

Hawaii Ocean Time-Series CONSOLE LOG

| Cast type | Bottle type | SST | Operator |
|---|---|---|---|
| S-1000 | 12L | 27.09 | TS-M |

- ☐ Pinger
- ☐ Altimeter
- ☑ Transmissometer
- ☐ BEACH Sea Tech Fluorometer
- ☐ OTG Seapoint Fluorometer
- ☐ ISUS
- ☑ PO Fluorometer
- ☑ PAR

| | |
|---|---|
| Station: 111 | Cast: 1 |
| Latitude start: 22° 50.033 end: 22° 50.027 | Longitude start: 158° 0.032 end: 158° 0.032 |
| Depth of water: 1090 meters | Date (GMT): 9/21/06 |
| Pressure on Deck | Time: |
| Begin: −0.2 End: −0.8 | Start Log: 5:00 In Water: 6:05 |
| Max cast pressure: 5419 dbar | Out of Water: 6:59 |

| Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
|---|---|---|---|---|---|
| 1 | | 6:[illegible]:00 | 501 | 900 | |
| 2 | 6:33:50 | [illegible]:20 | [illegible] | 400 | 5-min |
| 3 | 37:40 | 38:10 | 250 | 250 | |
| 4 | 41:15 | 41:45 | 150 | 150 | |
| 5 | 43:00 | 43:30 | 124 | 125 | |
| 6 | 44:20 | 44:50 | 120 | 120 | −1 |
| 7 | | 00 | 120 | 120 | DCM |
| 8 | 46:00 | 46:30 | 99 | 100 | |
| 9 | 47:50 | 48:20 | 74 | 75 | |
| 10 | 51:05 | 51:35 | 4 | 5 | |
| 11 | | | | | |
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| 24 | | | | | |

| Hawaii Ocean Time Series | | | Station #: 111 | Cast #: 1 | Box #: 14 + 15 |
|---|---|---|---|---|---|
| Salinity Sample Log Sheet | | | Cruise #: HOT- 366 | Sampler: FSM, TR | |
| Niskin # | Depth | Serial # | Comments | | |
| 1 | 900 | 334 | | | |
| 2 | 400 | 335 | 5-min | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | 75 | 336 | | | |
| 10 | 5 | 337 | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

UTC

# HOT-366

## CTD CONFIGURATION

CTD: 91361
DECK UNIT: 112060
PRESSURE: 754134
CAROUSEL: 0223
T1: 4448 T2: 5519
C1: 6092 C2: 6056
O1: 4232 O2: 4321
PUMP1: 11395 PUMP2: 11398
FLUOROMETER: 3602
ALTIMETER: 319952 (*NOT WORKING)
BUCKET TEMP: 3638
TRANSMISSOMETER 2407
PAR: 2089

## CRUISE PARTICIPANTS

GARRETT LICATA-PORTENTOSO (GRAD STD UH)
MAGGIE BRADLEY (GRAD STD UH)
HI'ILANI MIETLICKI (UNDERGRAD STD. UH)
SOPHIA DEMARCO ( " " )
SAGE MELTON ( " " )
LEANNE DE LEON ( " " )
A. LAUGHLIN
J. LEANING
B. WATKINS
B. BREVES
D. SADLER
D. HOGATE
F. CARVALHO PACHECO
F. SANTIAGO-MANDUJAN
M. DA FIENO
M. DAVIS
M. DOWD
T. ROHRER
S. JUNNERY (OTG)
JOSEPH SOLTIS (OTG)
PETE FELICIAN (OTG)

2026-09-13 - LOADING

FLUOROMETER (V0)
CLOSE: 4.89133
OPEN: 0.24786

PAR (V7)
CLOSE: 0.12943
OPEN: 3.71917

TRANSMISSOMETER (V1)
CLOSE: 000733
OPEN: 4.81441

ON HELIO
L» \EXPORT\HELIO\MATLAB5\CTDPROC

MATLAB
>> [m, b, data1] = xmscal.b 2407 4.81441, 0.007
m = 21.2161
B = -0.1555
L» UPDATE p1scal.b xms
L» UPDATE .CON FILES (ACQ + PROC)

OTEA (timeter not working —
- NOT OPERATIONAL FOR 366. CORROSION WAS OBSERVED ON THE CONNECTOR PINS DURING LOADING DAY. PIN(6) WAS BENDED. WHILE ATTEMPTING TO STRAIGHTEN THIS PIN, IT BROKE SUPER EASY.

TC
DEPART P
SAFETY B
FIRE AND
ARRIVE @
START WEI
21° 20
TEN
TEN
END WEIGI
START HYC
21° 20.
END HYPER
21° 20.67
SWITCHING
START HYPER
21° 20.6
DURING SEC
SHOWING, D
RECOVER HY
21° 20.77
BEGIN SIC1,
21° 20.75
PAR
END SIC1, 2
21° 20.

UTC HOT-366. KM2611

2004 DEPART PIER 35 2026-09-16

2015 SAFETY BRIEFING

2030 FIRE AND ABANDON SHIP DRILLS

2209 ARRIVE @ KAHE STN

2215 START WEIGHT CAST
21° 20.6921'N 158° 16.3806'W
TENSION AIR 1091 lbs
TENSION WATER 1180 lbs @ 500 m

2248 END WEIGHT CAST

2253 START HYPERPRO
21° 20.6264'N 158° 16.3407'W

2307 END HYPERPRO
21° 20.6791'N 158° 16.3348'W
SWITCHING HYPERPRO CABLE - GLITCHED @ 50-60 m

2312 START HYPERPRO (DEEP)
21° 20.6804'N 158° 16.3229'W
DURING SECOND DEEP CAST, DATA DISPLAYED STOP (~100m)
SHOWING, BUT INDICATOR LIGHTS "ON" (ACTIVE, LOGGING)

2338 RECOVER HYPERPRO
21° 20.7723'N 158° 16.1948

2354 BEGIN SICI, KAHE, 61000 GBS
21° 20.7509'N 158° 16.1472'W
PAR GLITCH 60-147 m

2026-09-17

0056 END SICI, 24 MARKS OK
21° 20.7422'N 158° 16.1298'W

UTC

05 TRANSI

57 ARRIVE
-RAIN

10 BEGIN Si
22° 4

20 Deploc
22°4

23 Star
22°

END S2
22° 44
HAWBOLDT
40 m PA

BEGIN PP
22° 45.0

END PP
22° 45.0

BEGIN S2
22° 45

52 4801 dbar, 11
22 045

END S2 (2,
22° 45.0
PAR 62

HOT-366 2026-09-17

UTC

1105 TRANSIT TO ALOHA

1957 ARRIVE 3 NM W of CENTER
-RAINING ON STATION-

2110 BEGIN SED TRAP ARRAY DEPLOYMENT
22° 45.0189'N, 158 3.288 W

2320 deployed sed. traps array
22°45.0193'N, 158° 3.258'W

2403 Start S2C1 - 1000m PPcast
22° 45.0094'N 158° 2.1930'W

2555 END S2C1, 24 MARKS OK
22° 44.969'N 158° 2.168'W
HAWBOLDT LINE JUMPED COIL AFTER LANDING CTD.
40 m PAID OUT & RE-ALIGNED ON DRUM

0357 BEGIN PP DEPLOYMENT 2 NM W of CENTER
22° 45.0112'N 158° 02.2101'W WIND: 20.6 KTS, 50.7° NE
CURRENT: 0.3-0.4 KTS ~S

0418 END PP DEPLOYMENT
22° 45.0157'N 158° 02.2009'W

0503 BEGIN S2C2, PO-1 DEEP, 650006PS
22° 45.004'N 157° 59.993'W

0632 4801 dbar, 4789 WIREOUT NO ALTIMETER
22 045.005 'N 157° 59.993 'W

0824 END S2C2, 24 MARKS OK
22° 45.001'N 157° 59.993'W
PAR GLITCH @ UPCAST 97-85 m & 80-0 m

Salinity bottle 155 does not exist, its replaced with bottle 311

TRANSIT

BEGIN S2C
22° 45.0
DOWNCA
UPCAST 6

END S2C3, 2
22° 45.004

BEGIN NET
22° 45.0

END NE
22° 45.28

START t
22° 45.35

END H

BEGIN S
22° 45.

END S2C4
22° 45.41

Transi

Start

End

UTC HOT-360 2026-09-17

1334 TRANSIT TO PUMP TANKS

1352 BEGIN S2C3, P0.7 SHALLOW, 61000 GPS
22° 45.005'N 157° 59.944'W
DOWNCAST PAR 0-123M DID NOT WORK
UPCAST GLITCH ~27M, 20-0m

1401 END S2C3, 24 MARKS OK
22° 45.004'N 158° 00.000'W

1421 BEGIN NET TOW
22° 45.0483'N 157° 59.9277'W

1442 END NET TOW
22°45.284'N 157°59.592'W

1456 START HYPERPRO
22° 45.3548'N 157° 59.5166'W

1545 END HYPERPRO

1548 BEGIN S2C4, PCPN, 61000 GPS
22° 45.486'N 157° 59.380'W

2026-09-18

1443 END S2C4, 18 MARKS OK
22° 45.487'N 157° 59.384'W

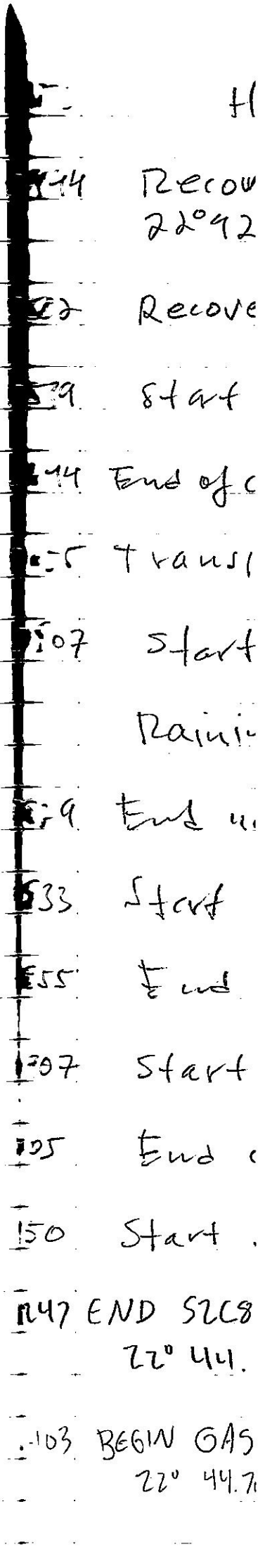
1500 Transit to LL array location

1754 Start S2C5 Particulate Phosphorus

1855 End of cast, 14 marks OK

9/18/26 05:02
AFTER PP RECOVERY, THE 5m SPREADER BAR CAME BACK BROKEN ← TWO BOTTLES MISSING. THE LINE IS MASHED FLAT, w/ BLACK STREAKS, BUNGEE CUT.

MetOSS Laptop iresponse is very slow we need a new laptop



JTL

# HOT-366 September 18, 2026

1944 Recovered PP array
22°42.369'N, 158° 4.250'W

1502 Recovery completed } N42NM SW OF CENTER
- 17-20 KTS WIND ENE

1539 Start S2C6 BEACH cast

1644 End of cast, 23 marks OK

1655 Transit to pump tanks

1807 Start net tow

Raining on station

1829 End net tow

1833 Start net tow

1855 End net tow

1907 Start S2C7 Open cast

2005 End of cast, 4 marks OK

2150 Start S2C8 Gas array cast

0147 END S2C8, 24 MARKS OK
22° 44.768'N 158° 4.489'W

0403 BEGIN GAS ARRAY DEPLOYMENT 4NM W of CENTER
22° 44.7697'N 158° 04.4897'W WIND: 15.3 KTS E 92°
CURRENT 04 KTS, 248° W

* NEED MORE BLACK INK (245XL)
PG-245, CANON

END GAS
22° 41

BEGIN S
22° 44

END S2
22° 44

TRANSIT

BEGIN S
22° 45.

END S2C
22°45

BEGIN S2
22° 45.

END S2C
22° 45.6

BEGIN NE
22° 45.6

END NE

BEGIN NE
22° 45.62

END NET
22° 45.62

UTC HOT-366 2026-09-18

1929 END GAS ARRAY DEPLOYMENT
22° 44.7765'N 158° 04'.4769'W

1949 BEGIN S2C9, OPEN, G1000GPS
22° 44.839'N 158° 4.154'W

1931 END S2C9, 3 MARKS OK
22° 44.838'N 158° 41.151'W

1939 TRANSIT TO PUMP TANKS

1947 BEGIN S2C10, PS:, G1000GPS
22° 45.623'N 158° 0.840'W
RAIN ON STATION

1957 END S2C10, 11 MARKS
22°45.623'N 158°0.840'W

2041 BEGIN S2C11, OPEN, G1000GPS
22° 45.622'N 158° 0.841'W RAIN ON STATION

2135 END S2C11, 6 MARKS OK
22° 45.622'N 158° 0.841'W

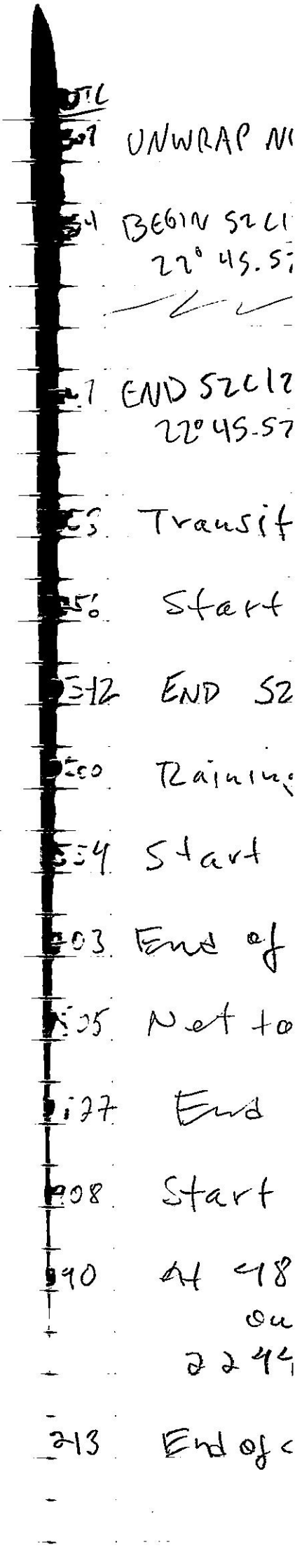
2202 BEGIN NET TOW #1
22° 45.6266'N 158° 00.8331'W
WIND: 15-16 KTS E
CURRENT: 02-03 KTS N/E

2224 END NET TOW #1

2227 BEGIN NET TOW #2
22° 45.6258'N 158° 00.2325'W

2249 END NET TOW #2
22° 45.6253'N 157° 59.7482'W

Need mechanical pencil leads
2B size 0.7



UTC HOT-366 2026-09-18

:307 UNWRAP NET TOW LINE FOR MAINTENANCE

:354 BEGIN S2C12, ATP, 6000 GPS RAIN ON STATION
22° 45.578'N 157° 58.802'W

2026-09-19

:047 END S2C12, 18 MARKS OK
22° 45.578'N 157° 58.808'W

:058 Transit to pump ship's tanks

:256 Start S2C13, open cast

:342 END S2C13, 4 MARKS OK

:500 Raining on station

:554 Start S2C14, HPLC cast

:703 End of cast

:505 Net tow

:827 End net tow

:908 Start S2C15, PO-3 @-5000 GPS

:940 At 4801 dbar, about 4780m wire out, no altimeter
22° 44.9927'N, 158° 0.0046'W

:213 End of cast, 8 marks OK

Transit t

BEGIN GA
22° 16.90

SUCSESSFUL
BOXS ON DECK
SAMPLES ON

END GAS ACRAY
22° 40.92

TRANSIT TO

BEGIN SED TRA
SUCCESSFUL GR
BOXS ON DECK
CROSS ON D
END SED TRA
22° 35.74

TRANSIT TO

START S50C1
22° 45.3

SET 1 200 Obar
1 2.7 Obar
SET 2 200.5 Obar
2 1.82 Obar
SET 3 200.6 Obar
3 2.15 Obar

# HOT-366 19 September 2026

0731 Transit to recover gas array ~7NM SW FROM CENTER

0800 BEGIN GAS ARRAY RECOVERY WIND: 19.8kts 79° E
22° 40.9019'N 158° 07.0679'W CURRENT: 0.6kts 215° SW

1430 SUCSESSFUL GRAPPLE 22° 40.8497'N 158° 06.6293'W
1436 BUOYS ON DECK
1454 ALL SAMPLES ON BOARD 22° 40.9552'N 158° 06.6833'W

1457 END GAS ARRAY RECOVERY
22° 40.9298'N 158° 06.7538'W

1458 TRANSIT TO RECOVER SED TRAPS ~12 NM SW FROM CENTER

1554 BEGIN SED TRAP RECOVERY 22° 35.6514'N 158° 08.5128'W WIND: 23.4 kts 69° E
1601 SUCCESSFUL GRAPPLE CURRENT 0.4 KTS
1605 BUOYS ON DECK 238° SW
1610 CROSS ON DECK
1618 END SED TRAP RECOVERY
22° 35.7424'N 158° 08.4174'W

1614 TRANSIT TO WHOTS

1705 START S50C1, WHOTS, 6200GPS
22° 45.396'N 157° 56.351'W

| | | | | |
|---|---|---|---|---|
| 1711 | BOT 1 | 200 dbar | 22° 45.395'N | 157° 56.352'W |
| 1717 | UP 1 | 2.7 dbar | 22° 45.395'N | 157° 56.350'W |
| 1721 | BOT 2 | 200.5 dbar | 22° 45.394'N | 157° 56.350'W |
| 1726 | UP 2 | 1.82 dbar | 22° 45.394'N | 157° 56.351'W |
| 1731 | BOT 3 | 200.6 dbar | 22° 45.392'N | 157° 56.350'W |
| 1737 | UP 3 | 2.18 dbar | 22° 45.392'N | 157° 56.351'W |

TC

-11 BOT 4 202
-6 UP 4 2.28
-51 BOT 5 200.1
-57 UP 5 36(

-157 END S50(
22° 45.3

-0 BEGIN VP(
22° 45.39

-226 END UPR C1
22° 45.32

-227 TRANSI I

-2256 BEGIN S2(
22° 45.2

-2309 END S2C1
22° 45.2

-2333 BEGIN HYPE(
22° 45.2
PROGRA
ABORTED
COMPUTE

-2355 REDEPLOY HYP
22° 45.22

0010 RE OVER

HOT-366 9/19/26

UTC

2411 BOT 4 2023 dbar 22° 45.392'N 157° 56.352'W
2416 UP 4 2.28 dbar 22° 45.392'N 157° 56.350'W
2451 BOT 5 200.1 dbar 22° 45.394'N 157° 56.351'W
2457 UP 5 36 dbar 22° 45.392'N 157° 56.348'W

2457 END SSOCI, 1 MARK OK
22° 45.392'N 157° 56.348'W

2510 BEGIN VPR CAST WIND: 16.0 kts 83° E
22° 45.3940'N 157° 56.2720'W CURRENT 0.3 kts
265°W

2526 END VPR CAST
22° 45.3200'N 157° 53.6499'W

2527 TRANSIT 2 NM INTO CIRCLE

2556 BEGIN S2C16, OPEN, 6'000GPS
22° 45.2301'N 157° 54.7119'W

2609 END S2C16, 4 MARKS OK
22° 45.235'N 157° 54.709'W

2633 BEGIN HYPERPRO
22° 45.2261'N 157° 54.8062'W
PROGRAM FAILED TO RECORD DEPTH,
ABORTED HYPERPRO. BEFORE RESTART,
COMPUTER CRASHED

2655 REDEPLOY HYPERPRO-
22° 45.2282'N 157° 54.7824'W

0010 RECOVER HYPERPRO 9/20/26

TL

TRANSIT T

BEGIN VPR#

END VPR#

BEGIN VPR#

END VPR#

Start

Start

Transec

End of C

Start

G-1000

End of

Transit

ship's

Start S

END S102C(1

22° 34.90

TRANSIT T

BEGIN S103C

22° 30.002'N

END S103C(1

22° 30.00

TL HOT-366 2026-09-20

-35 TRANSIT TO PUMP TANKS

-23 BEGIN VPR#2
-3 END VPR#2

-21 BEGIN VPR#3
-5 END VPR#3

52 Start S100C1 at the center of ALOHA Sta.
Start ALOHA to Kahoku (A2K1)
transect

551 End of cast, 4 marks OK

756 Start S101C1, 22°40', 158° W
G-1000 GPS
745 End of cast, 41 marks OK

750 Transit to Station 102, pumping
ship's tanks outside of ALOHA

153 Start S102C1, G1000 GPS

253 END S102C1, 14 MARKS OK
22° 34.990'N 158° 0.007'W

303 TRANSIT TO STATION 103

353 BEGIN S103C1, G1000GPS,
22° 30.002'N 157° 59.990'W

435 END S103C1, 4MARKS OK
22° 30.004'N 157° 59.993'W

90

TRANSIT

BEGIN S
22° 25

END S10
22° 25

TRA

BEGIN S1C
22° 19 9

END S10SC
22° 20.00

TRANSIT T

BEGIN S 10G
22° 14. 9

END S106C1
22° 14.93

TRANSIT T

BEGIN S10
22° 9.97

END S107C1
22° 9.972

TRANSIT

HOT-366 2026-09-20

1136 TRANSIT TO STATION 104

1539 BEGIN S104C1, G1000 6PS
22° 25.000'N 157° 59.992'W

1635 END S104C1; 14 MARKS OK
22° 25.002'N 157° 59.993'W

1641 TRANSIT TO STATION 105

1750 BEGIN S105C1 G1000 6PS
22° 19.996'N 157° 59.993'W

1833 END S105C1, 4 MARKS OK
22° 20.002'N 157° 59.994'W

1836 TRANSIT TO STATION 106

WIND 20 KTS / E
CURRENT 0.5 KTS SW

1938 BEGIN S106C1, G1000 6PS
22° 14.9443'N 157° 59.9670'W

2022 END S106C1, 4 MARKS OK
22° 14.939'N 157° 59.964'W

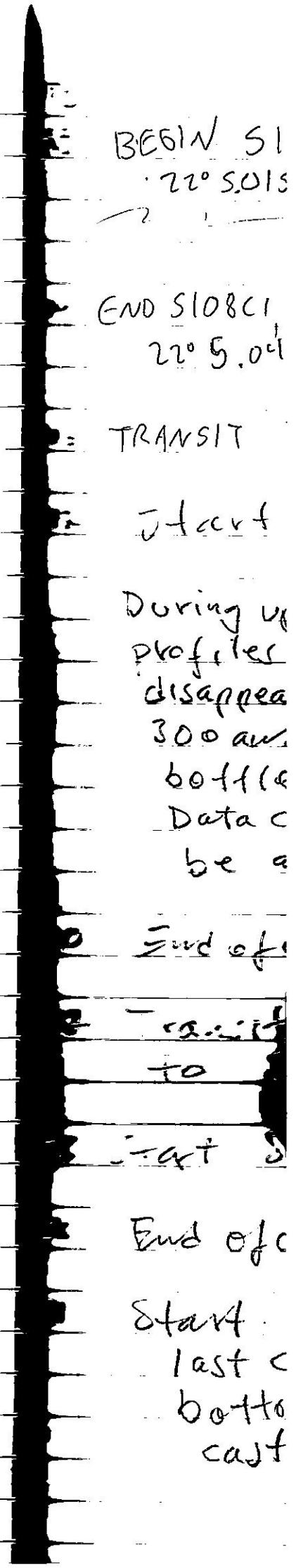
2026 TRANSIT TO STATION 107

2119 BEGIN S107C1, G1000 6PS
22° 9.972'N 158° 0.002'W

2219 END S107C1, 13 MARKS OK
22° 9.972'N 158° 0.001'W

2225 TRANSIT TO STATION 108

Salinity bottle SN 330 does not exist, used bottle 360 in its place



HOT 366 2026-09-20

~~2~~

~~0~~ BEGIN S108C1, G1000GPS
22° 5.015'N 158° 0.042'W

2026-09-21

~~1~~ END S108C1, 12 MARKS OK
22° 5.048'N 158° 0.048'W

~~1~~6 TRANSIT TO STATION 109

~~92~~ Start Station 109, cast 1

During upcast, the acquisition computer profiles from the downcast disappeared from the screen between 300 and 750 dbar after firing bottle 2 at 750 dbar (??) Data collection doesn't seem to be affected.

~~220~~ End of cast, 12 marks OK

~~232~~ Transit to pump tanks and to Sta 110

~~253~~ Start Sta 110 cast 1

~~250~~ End of cast, 14 marks OK

~~300~~ Start Sta 111, cast 1
last CTD cast of A2K1 transect
bottom depth ~1110 m
cast to 900 dbar, no altimeter

H

26 which
604 m
Apparent
bottom
do "

The ec
probabl
depth
topog

24 End of
No ap
vose.

Transit

FIRST

E

HOT-366 21.

:26 which stopped at 549 dbar
604 m wire out
Apparently the CTD touched the
bottom. sensor data, T, S, O2
do not seem to be affected

The echosounder is showing 1100 m
probably off from the actual
depth due to the steep
topography

:54 End of cast, 10 marks OK
No apparent damage in the
rosette or sensors

:: Transit to pier 35

:55 FIRST LINE ON DECK

END 366

HOT-[illegible] -KM-

# Meteorological Observations

Date: [illegible]

| (Use in Matlab) GMT: | 0000Z | 0400Z | 0800Z | 1200Z | 1600Z | 2000Z |
|---|---|---|---|---|---|---|
| Local Time: | ~~2400~~ | ~~1800~~ | 2200 | 0200 | 0600 | 1000 |
| Latitude<br>Longitude | | | | | 22 45.00 | |
| True wind speed<br>(kts)<br>True wind direction | | | | 17.3<br>57.0 | | 2<br>50.6 |
| Atmospheric pressure | | | | [illegible] | | 1011.30 |
| Dry air temperature<br>Wet air temperature<br>Sea surface temp | | | | [illegible] | | 26.[illegible]<br>[illegible]<br>26.[illegible] |
| Cloud type H/M/L<br>( / if dark)<br>Amount 1/8ths<br>( 9 if dark)<br>Weather Code | | | | /<br>1<br>[illegible] | [illegible]<br>[illegible]<br>16 | H/M/L<br>[illegible]<br>10 |
| Sea-State/ Swell | | | | | | |
| Comments | | | | | | |
| ADCP | | | | ✓ | ✓ | |
| TSG SST<br>SSS | | | | ✓<br>✓ | ✓ | ✓ |
| ✓ Data Entered | | | | ✓ | ✓ | ✓ |

HOT-____ -KM-

# Meteorological Observations

Date: 9/18/06

| (Use in Matlab) GMT: | 0000Z | 0400Z | 0800Z | 1200Z | 1600Z | 2000Z |
|---|---|---|---|---|---|---|
| Local Time: | 1400 | 1800 | 2200 | 0200 | 0600 | 1000 |
| Latitude | | | 22°44.428 | | 22°44.43 | 22°45.63 |
| Longitude | | | | | 158°04.13 | |
| True wind speed (kts) | 15.5 | | | 13,5 | 15.5 | |
| True wind direction | | | | | | |
| Atmospheric pressure | | | | | | |
| Dry air temperature | | | 25.9 | 25.0 | 23.5 | |
| Wet air temperature | | | 24.9 | 23.6 | 22.5 | |
| Sea surface temp | | | 26.85 | 26.80 | | |
| Cloud type H/M/L ( / if dark) | | | | | / | |
| Amount 1/8ths ( 9 if dark) | | 6 | 9 | 9 | 9 | 5 |
| Weather Code | | 21 | 21 | 21 | 00 | |
| Sea-State/ Swell | | | | | | |
| Comments | | | | | | |
| ADCP | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| TSG SST SSS | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ Data Entered | ✓ | ✓ | ✓ | ✓ | ✓ | |

HOT-366 -KM-

# Meteorological Observations

Date: 9/19/26

| (Use in Matlab) GMT: | 0000Z | 0400Z | 0800Z | 1200Z | 1600Z | 2000Z |
|---|---|---|---|---|---|---|
| Local Time: | 1400 | 1800 | 2200 | 0200 | 0600 | 1000 |
| Latitude | 22° 45.572N | 22°47.3605 | 22°45.004 | 22°44.9929 | | |
| Longitude | 157° 58.[illegible]W | 158°09.2590 | 157°57.771 | [illegible] | | 157°53.20 15 |
| True wind speed (kts) | 16.5 | 21.7 | 20.2 | 22.2 | | |
| True wind direction | 78.7 | 72.1 | 85.5 | 95.0 | | |
| Atmospheric pressure | 1013.40 | 1013.80 | 1016.00 | 1014.40 | | |
| Dry air temperature | 25 | 25.80 | 24.9 | 26.5 | | |
| Wet air temperature | 24 | 24.2 | 23.9 | 24.2 | | |
| Sea surface temp | 26.9 | 26.90 | 26.77 | 26.72 | | |
| Cloud type H/M/L ( / if dark) | H L | L | / | / | | |
| Amount 1/8ths ( 9 if dark) | 4 | 2 | 9 | 9 | | |
| Weather Code | 21 | 03 | 00 | 21 | | |
| Sea-State/ Swell | | | | | | |
| Comments | Sunrise [illegible] | | | | OUT circle | |
| ADCP | ✓ | ✓ | ✓ | ✓ | | ✓ |
| TSG SST | 26.9°C | ✓ | ~~✓~~ | ✓ | ✓ | ✓ |
| SSS | ✓ | | SKIP | | | |
| ✓ Data Entered | ✓ | ✓ | ✓ | ✓ | X | |

HOT-366 -KM-

# Meteorological Observations

Date: 2026/9/20

| (Use in Matlab) GMT: | 0000Z | 0400Z | 0800Z | 1200Z | 1600Z | 2000Z |
|---|---|---|---|---|---|---|
| Local Time: | 1400 | 1800 | 2200 | 0200 | 0600 | 1000 |
| Latitude | | 22°44.8977 | 22° 45.30 | | | |
| Longitude | | 157°5[illegible] | 157°59.90 | | | |
| True wind speed (kts) | | 22.5 | 15.5 | | | |
| True wind direction | | 76.5 | 87.0 | | | |
| Atmospheric pressure | | 10[illegible].00 | 10[illegible].1 | | | |
| Dry air temperature | | 26.8 | 24.9 | | | |
| Wet air temperature | | 23.5 | 23.9 | | | |
| Sea surface temp | | 26.880 | 26.80 | | | |
| Cloud type H/M/L ( / if dark) | | L | / | | | |
| Amount 1/8ths ( 9 if dark) | | 1 | 9 | | | |
| Weather Code | | 03 | 00 | | | |
| Sea-State/ Swell | | | | | | |
| Comments | | Transit - from screen | | | | |
| ADCP | | ✓ | ✓ | | | |
| TSG SST SSS | | ✓ | ✓ | | | |
| ✓ Data Entered | | ✓ | ✓ | | | |