| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | *(note if not GMT)* | | | | | | | | |
| 1 | 60 | .009 | N | -148 | .004 | W | 02 | 09 | 24 | 16 | 19 | | 24 | 1 | 1 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

1st haul, only did Niskin Chl & Sampling

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nu tBtl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (for main) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if regis tere d in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 001 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 002 | ↓ | ↓ | ✓ | ✓ | | | | | | | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 003 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 2 | 59 | .9996 | N | -168 | .99 | W | 02 | 09 | 24 | 21 | 10 | | 39 | 2 | 2 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

Did niskin + phytoplankton preserve

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 004 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 005 | | | 500 | 500 | | | | | | | |
| 3 | 20 | | 006 | | | | | | | | | | | |
| 4 | 35 | | 007 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 60 | .002 | N | -169 | .985 | W | 03 | 09 | 24 | 01 | 48 | | 53 | 3 | 3 |

| Sensor IDS (initially & swap-outs) | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

10m Niskin did not fire!

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 008 | 500 | 500 | | | | | | | | | |
| 2 | 20 | | 009 | | | ~~X~~ N/A | X N/A | | | | | | | |
| 3 | 30 | | 010 | | | | | | | | | | | |
| 4 | 40 | | 011 | | | | | | | | | | | |
| 5 | 50 | | 012 | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 59 | .9986 | N | -170 | .997 | W | 03 | 09 | 24 | 1606 | | | 67 | 4 | 4 |

(note if not GMT)

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

10m Niskin did not fire, very rough weather, not enough 10 m water for eDNA

Secondary Conductivity sensor not working.

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 013 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 014 | ↓ | ↓ | N/A | N/A | ✓ | | N/A | | | ✓ | |
| 3 | 20 | | 015 | ↓ | ↓ | | | | | | | | | |
| 4 | 30 | | 016 | ↓ | ↓ | | | | | | | | | |
| 5 | 50 | | 017 | ↓ | ↓ | | | | | | | | | |
| 6 | 60 | | 018 | ↓ | ↓ | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 5 | 60 | .4935 | N | -170 | .996 | W | 03 | 09 | 24 | 2053 | | | 62 | 5 | 5 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | Difficult Conditions | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | | 019 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 020 | ↓ | ↓ | X | X | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 X | | 021 | X | X | | | | | | | | | |
| 5 | 30 | | 022 | ↓ | ↓ | | | | | | | | | |
| 6 | 40 | | 023 | ↓ | ↓ | | | | | | | | | |
| 7 | 55 | | 024 | ↓ | ↓ | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 6 | 60 | .5004 | N | -169 | .999 | W | 04 | 09 | 24 | 16 | 07 | | 48 | 6 | 6 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH = 40

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 025 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 026 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 10 | | | X | X | 500 | 500 | | | | | | | |
| 5 | 20 | | 027 | | | | | | | | | | | |
| 6 | 30 | | 028 | | | | | | | | | | | |
| 7 | 40 | | 029 | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 2400 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | *(note if not GMT)* | | | | | | | | |
| 7 | 60 | .5011 | N | -169 | .006 | W | 04 | 09 | 24 | 2103 | | | 37 | 7 | 7 |

| **Sensor IDS (initially & swap-outs)** | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 0330 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 0331 | | | ✓ | ✓ | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 0332 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW24-01 2024 a 1 | NBS leg 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | GMT DATE MO | GMT DATE YR | GMT Time HR | GMT Time MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 60 | .511 | N | -168 | .021 | W | 05 | 09 | 24 | 0141 | | | 28 | 8 | 8 |

(note if not GMT)

| Sensor IDS (initially & swap-outs) | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 FAILED x | | | | | | | | | | | | | |
| 2 | 10 | | 033 | 500 | 500 | | | | | | | | | |
| 3 | 10 | | | ↓ | ↓ | 500 | 500 | ✓ | | ✓ | | | | |
| 4 | 20 | | 034 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 9 | 60 | .4993 | N | -167 | .014 | W | 05 | 09 | 24 | 16 | 05 | | 25 | 9 | 9 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 035 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 036 | ↓ | ↓ | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | ↓ | ↓ | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 037 | ↓ | ↓ | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 60 | .9948 | N | -166 | .987 | W | 05 | 09 | 24 | 20 | 56 | | 20 | 10 | 10 |

**Sensor IDS (initially & swap-outs)**

| | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 038 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 039 | | | | | | | | | | | |
| 3 | 10 | | | | | ✓ | ✓ | ✓ | | ✓ | | | | |
| 4 | 20 | | 040 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 11 | 60 | .9995 | N | -167 | .994 | W | 06 | 09 | 24 | 01 | 31 | | 28 | 11 | 11 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 041 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 042 | ↓ | ↓ | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 043 | ↓ | ↓ | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01<br>2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 12 | 61 | .001 | N | -169 | .003 | W | 06 | 09 | 24 | 1603 | | | 37 | 12 | 12 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol NO | >10 dup vol (large) NO | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 044 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 045 | ↓ | ↓ | | | ✓ | | ✓ | | | | |
| 3 | 20 | | 046 | | | | | | | | | | | |
| 4 | 30 | | 047 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01<br>2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 13 | 60 | .9991 | N | -169 | .981 | W | 06 | 09 | 24 | 2056 | | | 47 | 13 | 13 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 048 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 049 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 050 | | | | | | | | | | | |
| 5 | 30 | | 051 | | | | | | | | | | | |
| 6 | 40 | | 052 | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW24-01 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 60 | .9997 | N | -171 | .007 | W | 07 | 09 | 24 | 01 | 34 | | SS | 14 | 14 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 053 | 900 | 50 | | | | | | | | | |
| 2 | 10 | | 054 | | | no | no | ✓ | | ✓ | | | | |
| 3 | 20 | | 055 | | | | | | | | | | | |
| 4 | 30 | | 056 | | | | | | | | | | | |
| 5 | 40 | | 057 | | | | | | | | | | | |
| 6 | 50 | | 058 | | | | | | | | | | | ~~50m~~ Nutrient bottle is missing |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

NBS 2024 Nutrient ID# 0058
Cruise NW24 01
Cast 14 Niskin 50m

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 15 | 61 | .5011 | N | -171 | .007 | W | 07 | 09 | 24 | 16 | 21 | | 50 | 15 | 15 |

**Sensor IDS (initially & swap-outs)**

| | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

Chl filtering leaked a lot

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 059 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 060 | ↓ | ↓ | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | | | | | | | | |
| 4 | 20 | | 061 | | | | | | | | | | | |
| 5 | 30 | | 062 | | | | | | | | | | | |
| 6 | 40/45 | | 063 | ↓ | ↓ | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW24-01 2024-01 | NBS leg 1 | |

| 16 CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | 16 STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| | 61 | .5023 | N | -169 | .997 | W | 07 | 09 | 24 | 2108 | | | 45 | 16 | |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 064 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 065 | | | | | | | | | | | |
| 3 | 10 | | | | | ✓ | ✓ | ← droppers these !! | | ✓ | | | | |
| 4 | 20 | | 066 | | | | | | | | | | | |
| 5 | 30 | | 067 | | | | | | | | | | | |
| 6 | 40 | | 068 | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW24-01 2024-01 | NBS leg 1 | |

| 17 CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE (note if not GMT) DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | 17 STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 61 | 15016 | N | -169 | .005 | W | 08 | 09 | 24 | 01 | 37 | | 36 | 17 | |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 069 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 070 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 071 | | | | | | | | | | | |
| 5 | 30 | | 072 | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 2024-9 | **NBS leg** 1 | |

| St. 18 CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | 18 STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| | 61 | .5017 | N | -168 | .001 | W | 08 | 09 | 24 | 1610 | | | 28 | 18 | |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 073 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 074 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 075 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 19 | 61 | .5002 | N | -167 | .012 | W | 08 | 09 | 24 | 20 | 40 | | 21 | 19 | 19 |

| Sensor IDS (initially & swap-outs) | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 076 | 50 | 50 | | | | | | | | | |
| 2 | 10 | | 077 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 078 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 20 | 61 | .9954 | N | -167 | .003 | W | 09 | 09 | 24 | 0117 | | | 30 | 20 | 20 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 079 | | 500 | 500 | | | | | | | | |
| 2 | 10 | | 080 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | | NO (I dropped it) | | | | | | | |
| 4 | 20 | | 081 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 21 | 62 | .0007 | N | -167 | .999 | W | 09 | 09 | 24 | 1614 | | | 28 | 21 | 21 |

| **Sensor IDS (initially & swap-outs)** | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 082 | 500 | ~~500~~ → 500 | 5 samples !! | | | | | | | | |
| 2 | 10 | | 083 | ↓ | 500 | | ✓ | ✓ | | ✓ | | | | |
| 3 | 10 | | | ↓ | ↓ | ✓ | | | | | | | | |
| 4 | 20 | | 084 | ↓ | ↓ | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 22 | 61 | .9987 | N | -168 | .998 | W | 09 | 09 | 24 | 2045 | | | 37 | 22 | 22 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

Filters getting too slow, switching to 250ml

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | P | | 085 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 086 | ↓ | ↓ | ✓ | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | | ✓ | | | | | | | |
| 4 | 20 | | 087 | | | | | | | | | | | |
| 5 | 30 | | 088 | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 2401 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 23 | 62 | .0019 | N | -169 | .998 | W | 10 | 09 | 24 | 01 | 51 | | 45 | 23 | 23 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 089 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 090 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 091 | | | | | | | | | | | |
| 5 | 30 | | 092 | | | | | | | | | | | |
| 6 | 40 | | 093 | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| Northwest Explorer 2024 | NW 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 24 | 62 | .0054 | N | -170 | .975 | W | 10 | 09 | 24 | 16 | 13 | | 49 | 24 | 24 |

**Sensor IDS (initially & swap-outs)**

| | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 094 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 095 | ↓ | ↓ | | ✓ | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 096 | | | | | | | | | | | |
| 5 | 30 | | 097 | | | | | | | | | | | |
| 6 | 40 | | 098 | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 2024-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 25 | 62 | .495 | N | -171 | .006 | W | 10 | 09 | 24 | 20 | 49 | | 44 | 25 | 25 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 099 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 100 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 101 | | | | | | | | | | | |
| 5 | 30 | | 102 | | | | | | | | | | | |
| 6 | 40 | | 103 | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 2024-01 | NBS leg 1 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE (note if not GMT) DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | 62 | .5015 | N | -170 | .009 | W | 11 | 09 | 24 | 0123 | | | 37 | 26 | 26 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 104 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 105 | | | | | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | ✓ | | | | | | | |
| 4 | 20 | | 106 | | | | | | | | | | | |
| 5 | 30 | | 107 | | | | | | | | | | | |
| 6 | 40 | | 108 | | | | | | | | | | | 40m nutrient bottle is missing |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

NBS 2024 Nutrient ID# 0108
Cruise NW24 01
Cast 26 Niskin 40m

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | **GMT** DATE *(note if not GMT)* | | | **GMT** Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 27 | 62 | .495 | N | -169 | .004 | W | 11 | 09 | 24 | 16 | 12 | | 32 | 27 | 27 |

| **Sensor IDS (initially & swap-outs)** | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

filter issue

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 109 | 250 | | | | | | | | | | |
| 2 | 10 | | 110 | ✓ | | · | X | ✓ | | ✓ | | | | |
| 3 | 10 | | | ✓ | | ✓ | | | | | | | | |
| 4 | 20 | | 111 | ✓ | | | | | | | | | | |
| 5 | 30 | | 112 | ✓ | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 | **NBS leg** 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 28 | 62 | .5002 | N | -168 | .006 | W | 11 | 09 | 24 | 2043 | | | 30 | 28 | 28 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 113 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 114 | ↓ | ↓ | ✓ | ✓ | | | ✓ | | | | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 115 | ↓ | ↓ | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 24D1 | NBS leg 1 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 29 | 62 | .5014 | N | -167 | .009 | W | 12 | 09 | 24 | 0105 | | | 35 | 29 | 29 |

| Sensor IDS (initially & swap-outs) | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 116 | 250 | 250 | | | | | | | | | |
| 2 | 10 | | 117 | ↓ | ↓ | | ✓ | ✓ | | ✓ | | | | |
| 3 | 10 | | | | | ✓ | | | | | | | | |
| 4 | 20 | | 118 | | | | | | | | | | | |
| 5 | 30 | | 119 | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW 2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| | 63 | .5008 | N | -165 | .993 | W | 13 | 09 | 24 | 16 | 14 | | 25 | 30 | 30 |

| **Sensor IDS (initially & swap-outs)** | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | ≥10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 120 | 500 | 500 | | | | | | | | | |
| 2-3 | 10 | | 121 | ↓ | ↓ | 500 | 500 | ✓ | | ✓ | | | | |
| ~~3~~ 4 | 20 | | 122 | ↓ | ↓ | | | | | | | | | 22m |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 | **NBS leg** 2 | |

| 31 CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| | 63 | .0073 | N | -165 | .996 | W | 13 | 09 | 24 | 20 | 37 | | 21 | 31 | 31 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 123 | 500 | 500 | | | | | | | | | |
| 2-3 | 10 | | 124 | ↓ | ↓ | | | ✓ | | ✓ | | | | |
| ~~3~~ 4 | 20 | | 125 | ↓ | ↓ | | | | | | | | | 18m |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW24-01 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| | 63 | .0031 | N | -166 | .99 | W | 14 | 09 | 24 | 0108 | | | 26 | 32 | 32 |

| **Sensor IDS (initially & swap-outs)** | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 126 | 500 | 500 | | | | | | | | | |
| 2-3 | 10 | | 127 | ↓ | ↓ | | | ✓ | | ✓ | | | | |
| ~~3~~ 4 | 20 | | 128 | ↓ | ↓ | | | | | | | | | 23m |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 33 | 63 | .5019 | N | -167 | .003 | W | 14 | 09 | 24 | 16 | 13 | | 26 | 33 | 33 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 129 | 500 | 500 | | | | | | 1L | | | |
| 2 | 10 | | 130 | ↓ | ↓ | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 | | 131 | ↓ | ↓ | | | | | | 1L | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE | *(note if not GMT)* | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | | YR | HR | MIN | (°C) | (m) | | |
| 34 | 63 | .4999 | N | -167 | .991 | W | 14 | 0 | 9 | 2 4 | 2020 | | | 33 | 34 | 34 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 132 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 133 | ↓ | ↓ | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 | | 134 | ↓ | ↓ | | | | | | | | | |
| 5 | 30 | | 135 | ↓ | ↓ | | | | | | | | ✓ | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | HW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | | YR | HR | MIN | (°C) | (m) | | |
| 35 | 63 | .9951 | N | -168 | .006 | W | 15 | 0 | 9 | 2 4 | 0047 | | | 36 | 35 | 35 |

**Sensor IDS (initially & swap-outs)**

| | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 136 | 500 | 500 | | | | | | | ✓ | | |
| 2 | 10 | | 137 | ↓ | ↓ | 500 | 500 | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 | | 138 | ↓ | ↓ | | | | | | | | | |
| 5 | 30 | | 139 | ↓ | ↓ | | | | | | | | ✓ | 33m |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 36 | 64 | .0045 | N | -169 | .001 | W | 15 | 09 | 24 | 1622 | | | 35 | 36 | 36 |

| Sensor IDS (initially & swap-outs) | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 140 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 141 | | | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 142 | | | | | | | | | | | |
| 5 | 30 | | 143 | | | | | | | | | | ✓ | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | HW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE DEG | LATITUDE MIN | | LONGITUDE DEG | LONGITUDE MIN | | GMT DATE (note if not GMT) DAY | MO | YR | GMT Time HR | MIN | Surface Temp (°C) | BOTTOM DEPTH (m) | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 64 | .5005 | N | -169 | .003 | W | 16 | 09 | 24 | 16 | 22 | | 42 | 37 | 37 |

**Sensor IDS (initially & swap-outs)**

| | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 144 | 500 | 500 | | | | | | | ✓ | | |
| 2 | 10 | | 145 | | | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 146 | | | | | | | | | | | |
| 5 | 30 | | 147 | | | | | | | | | | | |
| 6 | 40 | | 148 | | | | | | | ✓ ← on ½ bags/replicates | | | | Tem Cor |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 38 | 64 | .4995 | N | -168 | .008 | W | 16 | 09 | 24 | 20 | 37 | | 36 | 38 | 38 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 149 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 150 | ↓ | ↓ | 500 | 500 | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 | | 151 | ↓ | ↓ | | | | | | | | | |
| 5 | 30 | | 152 | ✓ | ✓ | | | | | | | | ✓ | 33m |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE | *(note if not GMT)* | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 39 | 64 | .9989 | N | -167 | .513 | W | 17 | 09 | 24 | 0143 | | | 27 | 39 | 39 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH | Rosette Notes | | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DESIRED | SALT Btl | Nut.Btl | | | | | | | | | | | |
| 1 | 0 | | 153 | 500 | 500 | | | | | | 2L | | | |
| 2 | 10 | | 154 | ↓ | ↓ | | | ✓ | | ✓ | | ✓ | ✓ | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 155 | ✓ | ✓ | | | | | | 2L | | | Actual 25m |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE 9/17 (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 40 | 64 | .5013 | N | -166 | .999 | W | 17 | 09 | 24 | 16 | 20 | | 27 | 40 | 40 |

| Sensor IDS (initially & swap-outs) | |
|---|---|
| SBE type and S/N | |
| PRESS S/N | |
| TEMP 1 &2 SNs | |
| COND 1&2 S/Ns | |
| FLUOR S/N | |
| O2 (SBE43) S/N | |
| Transmiss S/N | |
| PAR S/N | |
| O2 SBE42S/N | |

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 156 | 500 | 500 | | | | | | | | | 20m GFF! |
| 2 | 10 | | | ↓ | ↓ | 500 | 500 | ✓ | | ✓ | | | ✓ | >10 clogged |
| 3 | 10 | | 157 | ↓ | ↓ | | | | | | | | | Very slow end |
| 4 | 20 | | 158 | ↓ | ↓ | | | | | | | | ✓ | Actual 25m |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 41 | 64 | .0043 | N | -167 | .002 | W | 17 | 09 | 24 | 2059 | | | 33 | 41 | 41 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 159 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 160 | | | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 161 | | | | | | | ✓ | | | | |
| 5 | 30 | | 162 | | | | | | | | | | ✓ | Not enough water for 30m eDNA |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 42 | 64 | — | N | -166 | .008 | W | 18 | 09 | 24 | 0154 | | | 22 | 42 | 42 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 163 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 164 | ↓ | ↓ | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 | | 165 | ↓ | ↓ | | | | | | | | ✓ | actual 18m |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | | YR | HR | MIN | (°C) | (m) | | |
| 43 | 64 | .0997 | N | -162 | .503 | W | 18 | 0 | 9 | 2 4 | 16 | 20 | | 21 | 43 | 43 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 166 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 167 | ↓ | ↓ | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | ↓ | ↓ | | | | | | | | | |
| 4 | 20 | | 168 | ↓ | ↓ | | | | | | | | ✓ | secchi 18 m |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 02 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 44 | 64 | .0978 | N | -163 | .512 | W | 18 | 09 | 24 | 20 | 30 | | 23 | 44 | 44 |

**Sensor IDS (initially & swap-outs)**

SBE type and S/N
PRESS S/N
TEMP 1 &2 SNs
COND 1&2 S/Ns
FLUOR S/N
O2 (SBE43) S/N
Transmiss S/N
PAR S/N
O2 SBE42S/N

**Weather:**

CTD MAX. DEPTH =

**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 169 | 500 | 500 | | | | | | | ✓ | | |
| 2 | 10 | | 170 | ↓ | ↓ | | | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 171 | ↓ | ↓ | | | | | | | | ✓ | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| VESSEL | CRUISE ID | PROJECT & LEG | CTD FileName |
|---|---|---|---|
| **Northwest Explorer 2024** | NW2401 | **NBS leg** 2 | |

| CTD Cast # | LATITUDE | | | LONGITUDE | | | GMT DATE (note if not GMT) | | | GMT Time | | Surface Temp | BOTTOM DEPTH | STATION NUMBER | STN. NAME/ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEG | MIN | | DEG | MIN | | DAY | MO | YR | HR | MIN | (°C) | (m) | | |
| 45 | 64 | .1005 | N | -164 | .491 | W | 19 | 09 | 24 | 0025 | | | 20 | 45 | 45 |

| **Sensor IDS (initially & swap-outs)** | **Weather:** | CTD MAX. DEPTH = |
|---|---|---|
| SBE type and S/N | | |
| PRESS S/N | **COMMENT: Difficult conditions, factors that may affect measurements or aid processing** | |
| TEMP 1 &2 SNs | | |
| COND 1&2 S/Ns | | |
| FLUOR S/N | | |
| O2 (SBE43) S/N | | |
| Transmiss S/N | | |
| PAR S/N | | |
| O2 SBE42S/N | | |

| Nisk # | DEPTH DESIRED | Rosette Notes SALT Btl | Rosette Notes Nut.Btl | GFF vol | >10 Large Vol | GF/F dup vol | >10 dup vol (large) | Preserved Phyto (formalin) | Flow Cytometry | eDNA | PFAS | Forel Ule (check below if registered in log) | Stable Isotopes | Notes/ other samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | 172 | 500 | 500 | | | | | | | | | |
| 2 | 10 | | 173 | ↓ | ↓ | 500 | 500 | ✓ | | ✓ | | | ✓ | |
| 3 | 10 | | | | | | | | | | | | | |
| 4 | 20 | | 174 | | | | | | | | | | ✓ | Actual 17m |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
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