# WMO 4903351 - OWC Summary Plots

DMQC Operator: Lola Pierson
Date: 20-May-2025 17:16:51
Cycles: 0 - 49
Dfiles: -

Config File: cow_config_sm.txt
WMO Boxes: wmo_boxes_ctd24argo23.mat
Historical Argo: ARGO_for_DMQC_2023V03_1XXX.tar.gz
Historical CTD: CTD_for_DMQC_2024V01_1.tar.gz

## Map Scale

Longitude: 1° / 2°

Latitude: 0.5° / 1°
Age: 5yrs / 10yrs
PV: 0
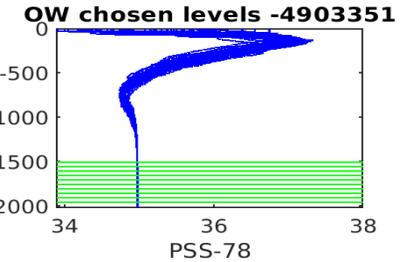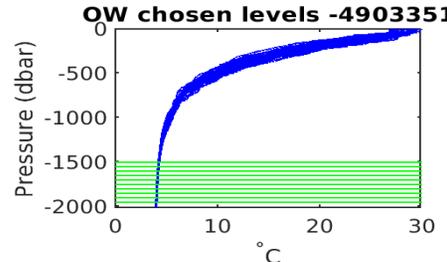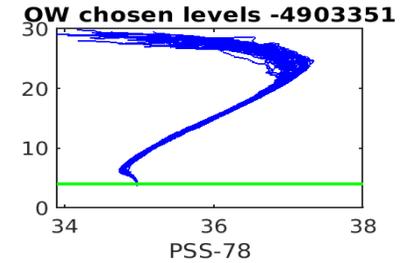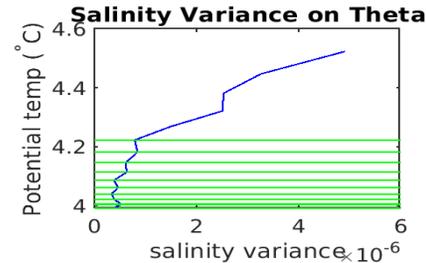SAF: 0

## OWC Parameters

Pressure: : 1200 < pres < --

Theta: -- < theta < --
Breaks: 7.99432 46.9698
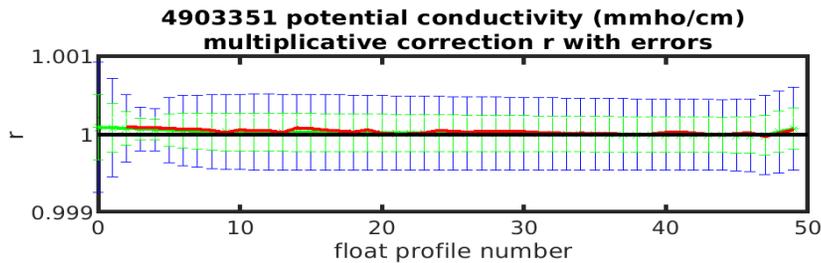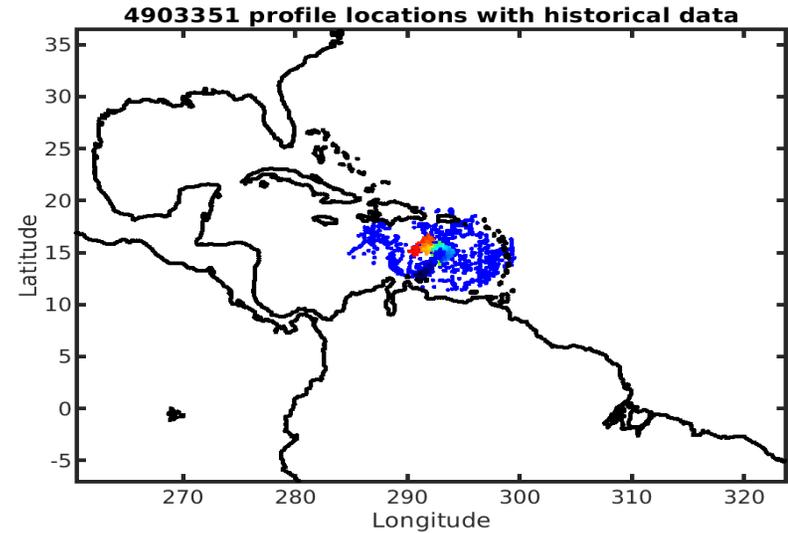
## Output

Pcond factor: [0.99999 - 1.0001]
Salinity Offset: [-0.00025362 - 0.0039124]



4903351 profile locations with historical data



4903351 potential conductivity (mmho/cm) multiplicative correction r with errors

4903351 vertically-averaged salinity (PSS-78) additive correction △ S with errors

float profile number - blue: 2xcal error; green: 1xcal error; red: 1-1 profile f

Salinity Variance on Theta

OW chosen levels -4903351

OW chosen levels -4903351
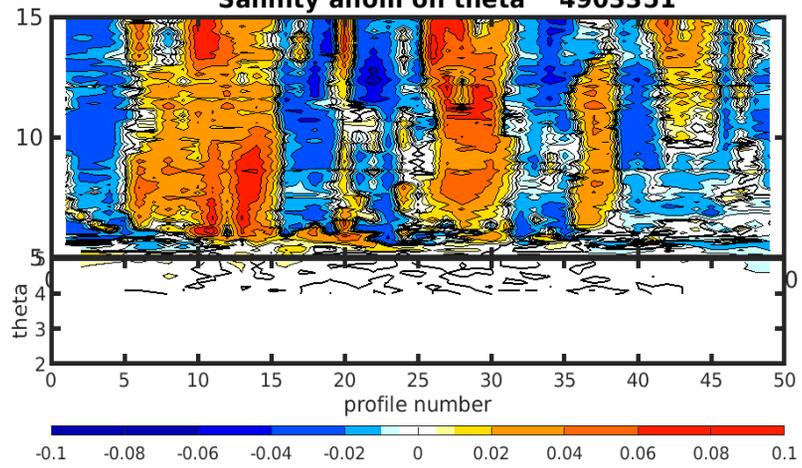
OW chosen levels -4903351

**4903351 uncalibrated float data (-)**
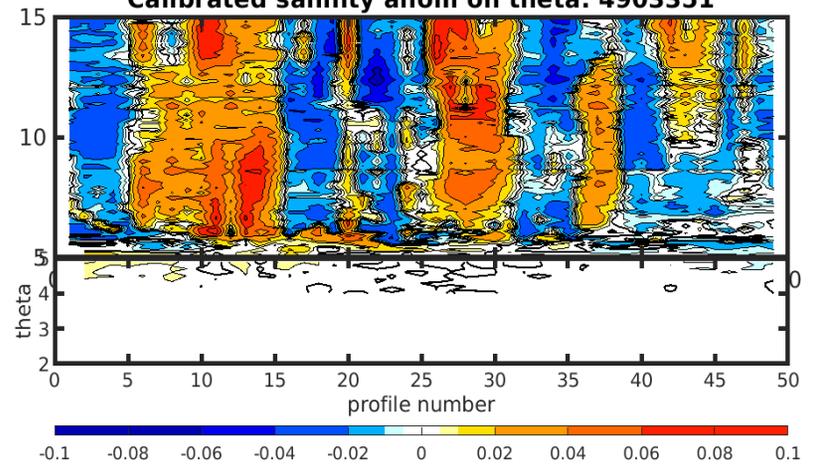**and mapped salinity (o) with objective errors**

**4903351 calibrated float data (-)**
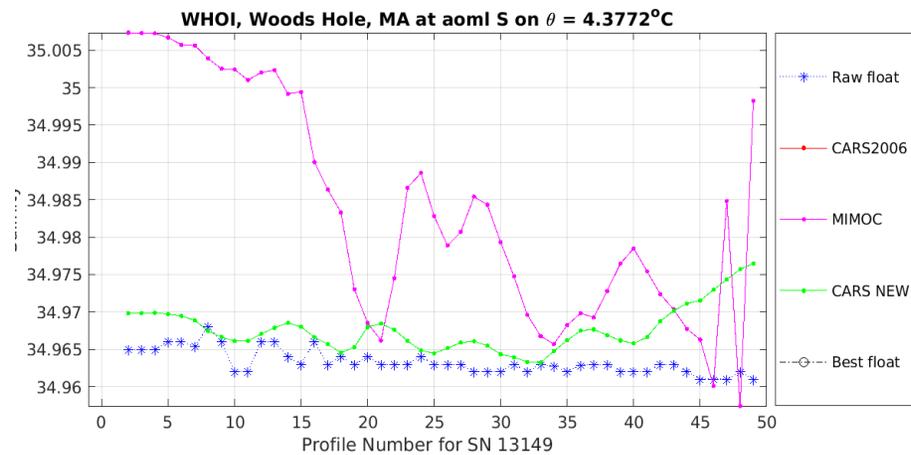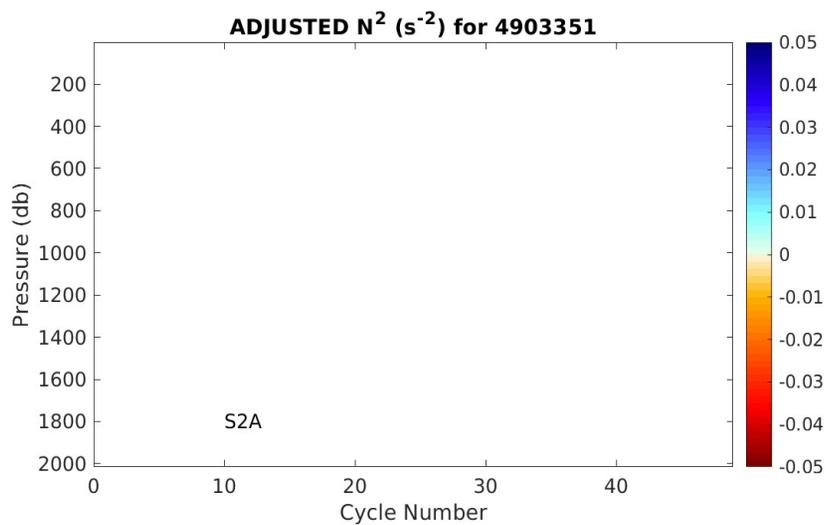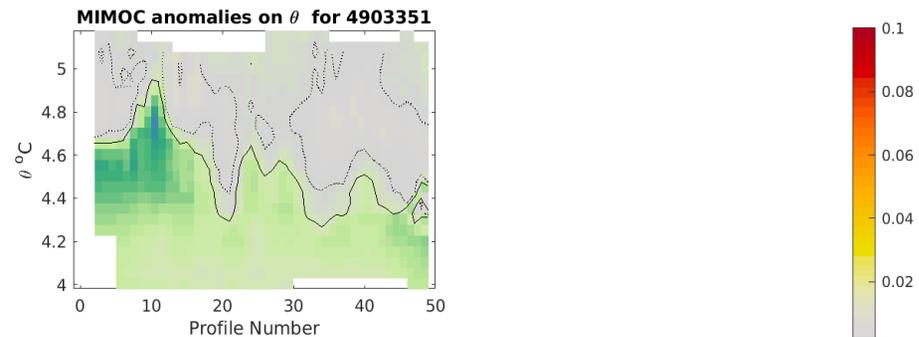**and mapped salinity (o) with objective errors**

**Salinity anom on theta    4903351**

**Calibrated salinity anom on theta. 4903351**

## RAW N$^2$ (s$^{-2}$) for 4903351



SBE41CP
SBE41CP
DRUCK$_2$900PSIA

## ADJUSTED N$^2$ (s$^{-2}$) for 4903351



S2A

WHOI Argo:20-May-2025

## MIMOC anomalies on $\theta$ for 4903351



## CARS NEW anomalies on $\theta$ for 4903351 Anomalies from all profile average on $\theta$



## WHOI, Woods Hole, MA at aoml S on $\theta$ = 4.3772$^o$C



Legend:
- Raw float
- CARS2006
- MIMOC
- CARS NEW
- Best float

Profile Number for SN 13149

WHOI Argo:20-May-2025

$\theta$=4.04$^{\circ}$C $\sigma^2$=3.3969e-07

$\theta$=3.9916$^{\circ}$C $\sigma^2$=3.6131e-07

$\theta$=4.0867$^{\circ}$C $\sigma^2$=3.8416e-07

$\theta$=4.0209$^{\circ}$C $\sigma^2$=3.8913e-07

$\theta$=4.0618$^{\circ}$C $\sigma^2$=4.6494e-07

$\theta$=4.0053$^{\circ}$C $\sigma^2$=5.3433e-07

$\theta$=4.1467$^{\circ}$C $\sigma^2$=6.0694e-07

$\theta$=4.1142$^{\circ}$C $\sigma^2$=6.3538e-07

$\theta$=4.2233$^{\circ}$C $\sigma^2$=7.8849e-07

$\theta$=4.1826$^{\circ}$C $\sigma^2$=8.4648e-07

Blue: uncal float; Red: mapped salinity; Green: cal float w/1xerr