

# ATLANTIC SECTION CRUISE AND CLEAN FILE NAME LIST

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This is a list of all Atlantic Ocean files in 'The Best CTD/Hydrographic Data' area of the Java OceanAtlas Suite site ([https://joa.ucsd.edu/Data\\_homepage](https://joa.ucsd.edu/Data_homepage)). Because we are always adding new files, it may be slightly out of date, but the intent is to update this list as needed. There are two principal lists here: (1) A data file list organized by WOCE line number, year, and cruise, and (2) a list of matched cruise segments. The latter are data from different years which cover the same portion of a section within one geographic domain.

All "cleaned" data were downloaded from the CCHDO (<https://cchdo.ucsd.edu>) and then subjected to these procedures: (1) Bottle data columns and headers were rectified to a specified set and order. (2) Duplicate bottles and bottles with little or no data from oxygen titrations or nutrient analyses were discarded. (3) Data which were quality coded bad or uncertain were eliminated. (4) Where there were multiple casts at a single station, the ones which comprised the most nearly complete profile were combined into a single vertical profile. (5) Transects were sorted with south-to-north or west-to-east left-right orientation. (6) Where it took several cruises to cover one very long transect, the data were combined. (7) Overlapping or off-transect data were eliminated. No measured data values were changed. In a few cases errors in station metadata such as position or depth to bottom were corrected.

PLEASE NOTE: The list of matched cruise segments appears at the end of this document.

## CRUISES BY WOCE LINE NUMBER AND YEAR

See the top of page <https://joa.ucsd.edu/atlanticdata> for a master map showing WOCE line numbers.

In the list which follows, a ~~cross-out~~ means that after inspection and/or cleaning, a cruise listed at the CCHDO was deemed not a suitable match for the intentions/criteria of the clean data project, or the data were not available from the CCHDO. Tasks not yet completed are highlighted in grey.

Files with suffix "\_hy1.csv" are in Exchange format (see <https://cchdo.ucsd.edu/formats>), which can be read by several data exploration applications and any application which can read .csv files. Files with ".joa" suffix are in Java OceanAtlas binary format, which can be read only by that application. NOTE: Java OceanAtlas can be used to export an Exchange format (\_hy1.csv) file from any JOA binary (.joa) file.

"WOA" in a file name indicates a data set made from WOA files to as closely as feasible match the track of the WOCE line in question. We will make most of these later.

At this time the focus is on the bottle data files. Only a few cruises now have CTD data on line here. In the fullness of time, we intend that there should be a cleaned bottle file and a cleaned CTD file for each cruise, each in ascii/Exchange and JOA binary formats.

## **A01/AR07 complete**

1981\_1982 (need to convert file natl.1981.6N.58N.joa)

~~1991~~

~~1994~~

1995

A01\_1995\_bot\_clean\_edited.joa

A01\_1995\_bot\_clean\_edited\_hy1.csv

~~2000~~

~~2009~~

WOA

## **A01E/AR07E (tracks do not always closely match cruise to cruise)**

1990

AR07E\_1990\_bot\_clean\_sorted\_hy1.csv

AR07E\_1990\_bot\_clean\_sorted.joa

1991\_a

AR07E\_1991\_04\_APR\_bot\_clean.joa

AR07E\_1991\_04\_APR\_bot\_clean2\_hy1.csv

1991\_b

AR07E\_1991\_08\_AUG\_bot\_clean\_edited\_hy1.csv

AR07E\_1991\_08\_AUG\_bot\_clean\_edited.joa

1991\_c

AR07E\_1991\_09\_SEP\_bot\_clean.joa

AR07E\_1991\_09\_SEP\_bot\_clean2\_hy1.csv

1992

AR07E\_1992\_bot\_clean.joa

AR07E\_1992\_bot\_clean2\_hy1.csv

1994

AR07E\_1994\_bottle\_clean\_hy1.csv

AR07E\_1994\_bottle\_clean.joa

~~1995~~

~~1996~~

1997\_a

AR07E\_1997\_08\_AUG\_b\_bot\_clean.joa

AR07E\_1997\_08\_AUG\_b\_bot\_clean2\_hy1.csv

~~1997\_b~~

2000

AR07E\_2000\_bot\_clean.joa

AR07E\_2000\_bot\_clean2\_hy1.csv

~~2001~~

~~2003\_a~~

~~2003\_b~~

~~2004~~

2005\_a

AR07E\_2005\_09\_SEP\_bot\_clean\_edited\_hy1.csv

AR07E\_2005\_09\_SEP\_bot\_clean\_edited.joa

~~2005\_b~~

2007

AR07E\_2007\_bot\_clean\_edited\_hy1.csv

AR07E\_2007\_bot\_clean\_edited.joa

~~2009~~

2011\_a

AR07E\_2011\_05\_MAY\_bot\_clean\_edited\_hy1.csv

AR07E\_2011\_05\_MAY\_bot\_clean\_edited.joa

~~2011\_b~~

2012

AR07E\_2012\_06\_JUN\_b\_bot\_clean.joa

AR07E\_2012\_06\_JUN\_b\_bot\_clean2\_hy1.csv

~~2014~~

2015

AR07E\_2015\_partial\_bottle\_clean.joa

AR07E\_2015\_partial\_bottle\_clean\_hy1.csv

WOA

### **A01W/AR07W (tracks mostly match closely cruise to cruise)**

1990

AR07W\_1990\_bot\_clean.joa

AR07W\_1990\_bot\_clean\_hy1.csv

AR07W\_1990\_ctd\_clean.joa

AR07W\_1990\_ctd\_clean\_ct1.zip

~~1991~~

1992

AR07W\_1992\_bot\_clean.joa

AR07W\_1992\_bot\_clean\_hy1.csv  
AR07W\_1992\_ctd\_clean.joa  
AR07W\_1992\_ctd\_clean\_ct1.zip

1993

AR07W\_1993\_bot\_clean.joa  
AR07W\_1993\_bot\_clean\_hy1.csv  
AR07W\_1993\_ctd\_clean.joa  
AR07W\_1993\_ctd\_clean\_ct1.zip

1994

AR07W\_1994\_bot\_clean.joa  
AR07W\_1994\_bot\_clean\_hy1.csv  
AR07W\_1994\_ctd\_clean.joa  
AR07W\_1994\_ctd\_clean\_ct1.zip

1995

AR07W\_1995\_06\_JUN\_bot\_clean.joa  
AR07W\_1995\_06\_JUN\_bot\_clean2\_hy1.csv

1996 **a**

AR07W\_1996\_bot\_clean.joa  
AR07W\_1996\_bot\_clean\_hy1.csv  
AR07W\_1996\_ctd\_clean.joa  
AR07W\_1996\_ctd\_clean\_ct1.zip

~~1996 **b**~~

1997\_a

AR07W\_1997a\_bot\_clean.joa  
AR07W\_1997a\_bot\_clean\_hy1.csv  
AR07W\_1997a\_ctd\_clean2\_ct1.zip

1997\_b

AR07W\_1997b\_bot\_clean.joa  
AR07W\_1997b\_bot\_clean\_hy1.csv

1998

AR07W\_1998\_bot\_clean2.joa  
AR07W\_1998\_bot\_clean2\_hy1.csv  
AR07W\_1998\_ctd\_clean.joa  
AR07W\_1998\_ctd\_clean\_ct1.zip

1999 **a**

AR07W\_1999a\_bot\_clean.joa  
AR07W\_1999a\_bot\_clean\_hy1.csv  
AR07W\_1999a\_ctd\_clean2\_ct1.zip

~~1999 **b**~~

2000

AR07W\_2000\_bot\_clean.joa  
AR07W\_2000\_bot\_clean\_hy1.csv

2001

AR07W\_2001\_bot\_clean.joa  
AR07W\_2001\_bot\_clean\_hy1.csv  
AR07W\_2001\_ctd\_clean.joa  
AR07W\_2001\_ctd\_clean\_ct1.zip

2002\_a

AR07W\_2002\_06\_JUN\_bot\_clean3.joa  
AR07W\_2002\_06\_JUN\_bot\_clean3\_hy1.csv

2002\_b

AR07W\_2002\_11\_NOV\_CTD\_clean.joa

2003

AR07W\_2003\_07\_JUL\_bot\_clean.joa  
AR07W\_2003\_07\_JUL\_bot\_clean2\_hy1.csv  
AR07W\_2003\_ctd\_clean.joa  
AR07W\_2003\_ctd\_clean\_ct1.zip

2004

AR07W\_2004\_05\_MAY\_bot\_clean2.joa  
AR07W\_2004\_05\_MAY\_bot\_clean3\_hy1.csv  
AR07W\_2004\_ctd\_clean.joa  
AR07W\_2004\_ctd\_clean\_ct1.zip

2005

AR07W\_2005\_bot\_clean.joa  
AR07W\_2005\_bot\_clean\_hy1.csv  
AR07W\_2005\_ctd\_clean.joa  
AR07W\_2005\_ctd\_clean\_ct1.zip

2006

AR07W\_2006\_bot\_clean.joa  
AR07W\_2006\_bot\_clean\_hy1.csv  
AR07W\_2006\_ctd\_clean.joa  
AR07W\_2006\_ctd\_clean\_ct1.zip

2007

AR07W\_2007\_05\_MAY\_bot\_clean3.joa  
AR07W\_2007\_05\_MAY\_bot\_clean3\_hy1.csv

2008\_a

AR07W\_2008\_05\_MAY\_bot\_clean3.joa  
AR07W\_2008\_05\_MAY\_bot\_clean3\_hy1.csv

2008\_b

AR07W\_2008\_08\_AUG\_bot\_clean.joa  
AR07W\_2008\_08\_AUG\_bot\_clean2\_hy1.csv

2009\_a

AR07W\_2009a\_bot\_clean.joa  
AR07W\_2009a\_bot\_clean\_hy1.csv

AR07W\_2009a\_ctd\_clean\_ct1.zip

2009\_b

AR07W\_2009b\_bot\_clean.joa

AR07W\_2009b\_bot\_clean\_hy1.csv

2010

AR07W\_2010\_bot\_clean.joa

AR07W\_2010\_bot\_clean\_hy1.csv

AR07W\_2010\_ctd\_clean.joa

AR07W\_2010\_ctd\_clean\_ct1.zip

2011\_a

AR07W\_2011\_05\_MAY\_a\_bot\_clean3.joa

AR07W\_2011\_05\_MAY\_a\_bot\_clean3\_hy1.csv

2011\_b

AR07W\_2011\_06\_JUL\_bot\_clean.joa

AR07W\_2011\_06\_JUL\_bot\_clean2\_hy1.csv

2012

AR07W\_2012\_bot\_clean\_sorted.joa

AR07W\_2012\_bot\_clean\_hy1.csv

2013

AR07W\_2013\_bot\_clean\_sorted.joa

AR07W\_2013\_bot\_clean\_hy1.csv

2014

A01\_2014\_05\_MAY\_bot\_clean.joa

A01\_2014\_05\_MAY\_bot\_clean2\_hy1.csv

2015

AR07W\_2015\_bot\_clean\_sorted.joa

AR07W\_2015\_bot\_clean\_hy1.csv

2016

AR07W\_2016\_bot\_clean\_sorted.joa

AR07W\_2016\_bot\_clean\_hy1.csv

WOA

## **A02/AR19**

1957 (will need to be resurrected from other files)

1982 (will need to be resurrected from other files)

1993-a

A02\_1993\_06\_JUN\_bot\_clean\_edited.joa

A02\_1993\_06\_JUN\_bot\_clean\_edited\_hy1.csv

~~1993\_b~~

1994

A02\_1994\_bot\_clean\_edited.joa  
A02\_1994\_bot\_clean\_edited\_hy1.csv  
A02\_1994\_ctd\_clean.joa

1996\_a

A02\_1996\_05\_MAY\_bot\_clean.joa  
A02\_1996\_05\_MAY\_bot\_clean2\_hy1.csv

~~1996\_b~~

1997

A02\_1997\_06\_JUN\_bot\_clean.joa  
A02\_1997\_06\_JUN\_bot\_clean2\_hy1.csv  
A02\_1997\_ctd\_clean.joa

1998

A02\_1998\_bot\_clean\_edited\_hy1.csv  
A02\_1998\_bot\_clean\_edited.joa

~~1999~~

2000

A02\_2000\_bot\_clean.joa  
A02\_2000\_bot\_clean2\_hy1.csv

2001

A02\_2001\_bot\_clean\_sorted\_edited.joa  
A02\_2001\_bot\_clean\_sorted\_edited\_hy1.csv

~~2007~~

~~2008~~

~~2010~~

2011

A02\_2011\_bot\_clean.joa  
A02\_2011\_bot\_clean2\_hy1.csv

2017

A02\_2017\_bot\_clean\_edited\_hy1.csv  
A02\_2017\_bot\_clean\_edited.joa

WOA

### **A03**

1981 (will need to be resurrected from other files)

1993

A03\_1993\_bot\_clean\_edited.joa

A03\_1993\_bot\_clean\_edited\_hy1.csv

2005

A03\_2005\_bot\_clean3\_hy1.csv

A03\_2005\_bot\_clean3.joa

WOA

## **A05/AR01**

1981 (will need to be resurrected from file natl.1981.AN.26N.joa)

1992

A05\_1992\_bot\_clean\_sorted.joa

A05\_1992\_bot\_clean\_sorted\_hy1.csv

A05\_1992\_ctd\_clean.joa

A05\_1992\_ctd\_clean\_ct1.zip

1998

A05\_1998\_bot\_clean\_sorted.joa

A05\_1998\_bot\_clean\_sorted\_hy1.csv

A05\_1998\_ctd\_clean.joa

A05\_1998\_ctd\_clean\_ct1.zip

2004

A05\_2004\_bot\_clean2.joa

A05\_2004\_bot\_clean2\_hy1.csv

A05\_2004\_ctd\_clean.joa

A05\_2004\_ct1.zip

2005

A05/AR01\_2005\_clean\_CTD\_decimated.joa

2010

A05\_2010\_bot\_clean3.joa

A05\_2010\_bot\_clean3\_hy1.csv

2011

A05\_2011\_bot\_clean\_sorted.joa

A05\_2011\_bot\_clean\_sorted\_hy1.csv

2015

A05\_2015\_bot\_clean\_edited.joa

A05\_2015\_bot\_clean\_edited\_hy1.csv

2020

A05\_2020\_bot\_clean2.joa

A05\_2020\_bot\_clean2\_hy1.csv

WOA

A05\_WOA05\_in\_mass\_units\_hy1.csv

A05\_WOA05\_in\_mass\_units.joa



## **A06/AR03**

1989 (will need to be resurrected from file A06\_1989\_bottle.joa)

1993

A06\_1993\_bot\_clean3.joa

A06\_1993\_bot\_clean3\_hy1.csv

2000

A06\_2000\_bot\_clean\_edited.joa

A06\_2000\_bot\_clean\_edited\_hy1.csv

2010

A06\_2010\_bot\_clean.joa

A06\_2010\_bot\_clean2\_hy1.csv

WOA

## **A07**

1993

A07\_1993\_bot\_clean\_edited.joa

A07\_1993\_bot\_clean\_edited\_hy1.csv

WOA

## **A08**

1983 (will need to be resurrected from file A08\_1983\_bottle.joa)

1994

A08\_1994\_bot\_clean\_edited.joa

A08\_1994\_bot\_clean\_edited\_hy1.csv

WOA

## **A09/A09.5**

1991

A09\_1991\_bot\_clean3.joa

A09\_1991\_bot\_clean3\_hy1.csv

2009

A09\_2009\_bot\_clean.joa

A09\_2009\_bot\_clean2\_hy1.csv

2018

A09\_2018\_bot\_clean\_edited.joa

A09\_2018\_bot\_clean\_edited\_hy1.csv

WOA

## **A10**

1983 (will need to be resurrected from other files)

1992

A10\_1992\_bot\_clean2\_sorted\_hy1.csv

A10\_1992\_bot\_clean2\_sorted.joa

A10\_1992\_ctd\_clean.joa

A10\_1992\_ctd\_clean\_ct1.zip

2003

A10\_2003\_bot\_clean.joa

A10\_2003\_bot\_clean3\_hy1.csv

A10\_2003\_ctd\_clean.joa

A10\_2003\_ctd\_clean\_ct1.zip

2009

A10\_2009\_bot\_clean.joa

A10\_2009\_bot\_clean3\_hy1.csv

2011

A10\_2011\_bot\_clean4.joa

A10\_2011\_bot\_clean4\_hy1.csv

2017

A10\_2017\_bot\_clean3\_edited\_hy1.csv

A10\_2017\_bot\_clean3\_edited.joa

2018

A10\_2018\_bot\_clean4\_hy1.csv

A10\_2018\_bot\_clean4.joa

WOA

A10\_WOA05\_in\_mass\_units.joa

A10\_WOA05\_in\_mass\_units\_hy1.csv

A11

1992

A11\_1992\_bot\_clean\_edited.joa

A11\_1992\_bot\_clean\_edited\_hy1.csv

WOA

## **A12/S02/SR04**

Notes: (1) For the cleaned data collection, "A12" will be A12/S02/SR04 sections from Antarctica, on the eastern side of the Weddell Sea, north, mostly towards South Africa; and "SR04" will be A12/S02/SR04 sections crossing the Weddell Sea from Northwest to Southeast. (2) In some of the bottle data files from the Alfred-Wegener Institute there are no bottle salinities or oxygens reported. This is a serious deficiency. The affected files are noted here via the file names (e.g., "A12\_2005\_bot\_clean\_sorted\_nobottleO2\_hy1.csv"). Efforts should be made to obtain and merge the missing bottle oxygen data into the main bottle data files.

A12/S02/SR04 bottle files still to be sought from AWI archives:

1986  
1999  
2000  
2002

## **A12**

00 NOTE re A12 and SR04.pdf

1992

A12\_1992\_bot\_clean3\_edited.joa  
A12\_1992\_bot\_clean3\_edited\_hy1.csv

2002

A12\_2002\_bot\_clean\_edited.joa  
A12\_2002\_bot\_clean\_edited\_hy1.csv

2005

A12\_2005\_bot\_clean\_sorted\_nobottleO2.joa  
A12\_2005\_bot\_clean\_sorted\_nobottleO2\_hy1.csv

**2007**

2008\_a

A12\_2008a\_north\_bot\_clean\_edited\_sorted.joa  
A12\_2008a\_north\_bot\_clean\_edited\_sorted\_hy1.csv

2008\_b

A12\_2008b\_bot\_clean\_nobottleO2\_edited.joa  
A12\_2008b\_bot\_clean\_nobottleO2\_edited\_hy1.csv

2010

A12\_2010\_bot\_clean2\_nobottleO2.joa  
A12\_2010\_bot\_clean2\_nobottleO2\_hy1.csv

**2012**

2014

A12\_2014\_bot\_clean3\_edited.joa  
A12\_2014\_bot\_clean3\_edited\_hy1.csv

WOA

## **SR04**

1989

SR04\_1989\_bot\_clean\_edited.joa

SR04\_1989\_bot\_clean\_edited\_hy1.csv

1990

SR04\_1990\_bot\_clean\_edited.joa

SR04\_1990\_bot\_clean\_edited\_hy1.csv

1992

SR04\_1992\_bot\_clean.joa

SR04\_1992\_bot\_clean2\_hy1.csv

1996

SR04\_1996\_bot\_clean\_edited.joa

SR04\_1996\_bot\_clean\_edited\_hy1.csv

1998

SR04\_1998\_westWeddell\_bot\_clean.joa

SR04\_1998\_westWeddell\_bot\_clean2\_hy1.csv

2005

SR04\_2005\_bot\_clean\_edited\_nobottleO2.joa

SR04\_2005\_bot\_clean\_edited\_nobottleO2\_hy1.csv

2008

SR04\_2008\_bot\_clean\_nobottleO2\_edited.joa

SR04\_2008\_bot\_clean\_nobottleO2\_edited\_hy1.csv

2010

SR04\_2010\_nobottleO2\_bot\_edited.joa

SR04\_2010\_nobottleO2\_bot\_edited\_hy1.csv

## **A13/A13.5**

1983\_1985

A13.5 AJAX\_1983\_1984\_bottle\_clean\_sorted.joa

A13.5 AJAX\_1983\_1984\_bottle\_clean\_sorted\_hy1.csv

1995

A13\_1995\_bot\_clean\_edited.joa

A13\_1995\_bot\_clean\_edited\_hy1.csv

2010

A13.5\_2010\_bot\_clean\_sorted\_hy1.csv

A13.5\_2010\_bot\_clean\_sorted.joa

WOA

### **A14**

1995

A14\_1995\_bot\_clean\_sorted.joa

A14\_1995\_bot\_clean\_sorted\_hy1.csv

WOA

### **A15**

1994

A15\_1994\_bot\_clean\_sorted.joa

A15\_1994\_bot\_clean\_sorted\_hy1.csv

WOA

### **A16/AR21**

1988-1989

A16\_1988\_1989\_bot\_clean.joa

A16\_1988\_1989\_bot\_clean\_hy1.csv

A16\_1988\_1989\_ctd\_clean.joa

A16\_1988\_1989\_ct1.zip

A16\_1988\_1989\_heavydeci\_CTD.joa

**1990**

1991-1993

A16\_1991\_1993\_bot\_clean.joa

A16\_1991\_1993\_bot\_clean\_hy1.csv

A16\_1991\_1993\_ctd\_clean.joa

A16\_1991\_1993\_ct1.zip

**1995**

1998

A16N\_1998\_bot\_clean.joa

A16N\_1998\_bot\_clean3\_hy1.csv

A16N\_1998\_ctd\_clean\_ct1.zip

**1999**

2003-2005

A16\_2003\_2005\_bot\_clean.joa

A16\_2003\_2005\_bot\_clean\_hy1.csv

A16\_2003\_2005\_ct1.zip

A16\_2003\_2005\_decimated\_clean\_CTD.joa

A16\_2003\_2005\_undecimated\_CTD.joa

A16\_2003\_2005\_undecimated\_CTD.jos  
READ\_ME\_re\_A16\_undecimated\_data\_file.txt

**2008**

**2009**

**2010**

**2011**

2013-2014

A16\_2013\_2014\_bot\_clean\_w\_extra\_sorted.joa  
A16\_2013\_2014\_bot\_clean\_w\_extra\_sorted\_hy1.csv  
A16\_2013\_2014\_CTD\_clean\_w\_extra\_sorted.joa

WOA

A16\_WOA05\_in\_mass\_units.joa  
A16\_WOA05\_in\_mass\_units\_hy1.csv

## **A17**

1994

A17\_1994\_bot\_clean3\_sorted.joa  
A17\_1994\_bot\_clean3\_sorted\_hy1.csv

2001

A17\_2001\_bot\_clean\_sorted.joa  
A17\_2001\_bot\_clean\_sorted\_hy1.csv

2002

A17\_2002\_bot\_clean\_sorted.joa  
A17\_2002\_bot\_clean\_sorted\_hy1.csv

2013

A17\_2013\_bot\_clean\_sorted.joa  
A17\_2013\_bot\_clean\_sorted\_hy1.csv

2019

A17\_2019\_bot\_clean\_sorted.joa  
A17\_2019\_bot\_clean\_sorted\_hy1.csv

WOA

## **A20**

1983 (will need to be resurrected from file natl.1983.OC.52W.joa)

1997

A20\_1997\_bot\_clean3\_sorted.joa  
A20\_1997\_bot\_clean3\_sorted\_hy1.csv

2003

A20\_2003\_bot\_clean2\_sorted\_hy1.csv

A20\_2003\_bot\_clean2\_sorted.joa

2012

A20\_2012\_bot\_clean\_sorted\_hy1.csv

A20\_2012\_bot\_clean\_sorted.joa

2021

A20\_2021\_14JUN2021\_bot\_clean\_edited\_hy1.csv

A20\_2021\_14JUN2021\_bot\_clean\_edited.joa

WOA

## **A21**

1990 (includes SR01\_1990)

A21\_SR01\_1990\_bot\_clean3\_edited\_hy1.csv

A21\_SR01\_1990\_bot\_clean3\_edited.joa

1993 (will need to be 'searched and rescued' from AWI files)

~~2006~~

~~2008~~

2010~~-a~~

A21\_2010\_03\_b\_partial\_bot\_clean.joa

A21\_2010\_03\_b\_partial\_bot\_clean2\_hy1.csv

~~2010-b~~

WOA

## **A22**

1985 (will need to be resurrected from other files)

1997

A22\_1997\_bot\_clean\_sorted.joa

A22\_1997\_bot\_clean\_sorted\_hy1.csv

2003

A22\_2003\_bot\_clean\_sorted.joa

A22\_2003\_bot\_clean\_sorted\_hy1.csv

2012

A22\_2012\_bot\_clean\_sorted.joa

A22\_2012\_bot\_clean\_sorted\_hy1.csv

2021  
A22\_2021\_10JUN2021\_bot\_clean\_edited\_hy1.csv  
A22\_2021\_10JUN2021\_bot\_clean\_edited.joa

WOA

**A23** (Note: There is a repeated crossing of the waters downstream from Drake Passage, with several years of data, mostly already cleaned, that we should consider adding to the clean data set, under some reasonable section name.)

1989  
A23\_1989\_bot\_clean\_sorted.joa  
A23\_1989\_bot\_clean\_sorted\_hy1.csv

1995  
A23\_1995\_bot\_clean\_sorted.joa  
A23\_1995\_bot\_clean\_sorted\_hy1.csv

1999  
A23\_1999\_bot\_clean\_edited.joa  
A23\_1999\_bot\_clean\_edited\_hy1.csv

**2012**

**2015**

**2016**

**2017**

**2018**

**2020**

WOA

## **A24/AR24**

**1991**

1996  
AR24\_1996\_N\_leg\_bot\_clean\_hy1.csv  
AR24\_1996\_N\_leg\_bot\_clean.joa  
AR24\_1996\_S\_leg\_bot\_clean\_hy1.csv  
AR24\_1996\_S\_leg\_bot\_clean.joa

1997  
A24N\_1997\_bot\_clean\_sorted.joa  
A24N\_1997\_bot\_clean\_sorted\_hy1.csv

A24S\_1997\_bot\_clean.joa



A24S\_1997\_bot\_clean\_hy1.csv

WOA

## **A25/OVIDE**

1997

A25\_1997\_bot\_clean\_edited.joa

A25\_1997\_bot\_clean\_edited\_hy1.csv

2002

A25\_OVIDE\_2002\_bot\_clean3.joa

A25\_OVIDE\_2002\_bot\_clean3\_hy1.csv

2004

A25\_OVIDE\_2004\_bot\_clean\_edited.joa

A25\_OVIDE\_2004\_bot\_clean\_edited\_hy1.csv

2006

A25\_OVIDE\_2006\_bot\_clean\_edited.joa

A25\_OVIDE\_2006\_bot\_clean\_edited\_hy1.csv

2008

A25\_OVIDE\_2008\_bot\_clean.joa

A25\_OVIDE\_2008\_bot\_clean2\_hy1.csv

2010

A25\_OVIDE\_2010\_bot\_clean.joa

A25\_OVIDE\_2010\_bot\_clean2\_hy1.csv

2012

A25\_OVIDE\_2012\_bot\_clean\_sorted.joa

A25\_OVIDE\_2012\_bot\_clean\_sorted\_hy1.csv

2014

A25\_OVIDE\_2014\_bot\_clean\_edited.joa

A25\_OVIDE\_2014\_bot\_clean\_edited\_hy1.csv

2016

A25\_OVIDE\_2016\_bot\_clean\_edited\_hy1.csv

A25\_OVIDE\_2016\_bot\_clean\_edited.joa

WOA

## **AR04**

1990

AR04W\_1990\_44W\_bot\_clean\_sorted\_hy1.csv

AR04W\_1990\_44W\_bot\_clean\_sorted.joa

1991

AR04E\_1991\_35W\_bot\_clean\_edited\_hy1.csv  
AR04E\_1991\_35W\_bot\_clean\_edited.joa  
AR04W\_1991\_44W\_bot\_clean\_sorted\_hy1.csv  
AR04W\_1991\_44W\_bot\_clean\_sorted.joa

1992

AR04E\_1992\_35W\_bot\_clean\_edited\_hy1.csv  
AR04E\_1992\_35W\_bot\_clean\_edited.joa  
AR04W\_1992\_44W\_bot\_clean\_edited\_hy1.csv  
AR04W\_1992\_44W\_bot\_clean\_edited.joa

1994

AR04E\_1994\_35W\_bot\_clean\_edited.joa  
AR04E\_1994\_35W\_bot\_clean\_edited\_hy1.csv  
AR04W\_1994\_44W\_bot\_clean\_sorted.joa  
AR04W\_1994\_44W\_bot\_clean\_sorted\_hy1.csv

1995

AR04E\_1995\_35W\_bot\_clean\_sorted\_hy1.csv  
AR04E\_1995\_35W\_bot\_clean\_sorted.joa  
AR04W\_1995\_45to41W\_bot\_clean\_edited\_hy1.csv  
AR04W\_1995\_45to41W\_bot\_clean\_edited.joa

1996

AR04E\_1996\_35W\_bot\_clean\_edited.joa  
AR04E\_1996\_35W\_bot\_clean\_edited\_hy1.csv  
AR04W\_1996\_45to41W\_bot\_clean\_edited.joa  
AR04W\_1996\_45to41W\_bot\_clean\_edited\_hy1.csv

2000

AR04E\_2000\_35W\_long\_bot\_clean\_sorted.joa  
AR04E\_2000\_35W\_long\_bot\_clean\_sorted\_hy1.csv

2002

AR04E\_2002\_40W\_bot\_clean\_sorted.joa  
AR04E\_2002\_40W\_bot\_clean\_sorted\_hy1.csv

2003

AR04E\_2003\_35W\_long\_bot\_clean\_nobottleO2\_sorted.joa  
AR04E\_2003\_35W\_long\_bot\_clean\_nobottleO2\_sorted\_hy1.csv

2004

AR04C\_2004\_SE\_N\_ATL\_pair\_bot\_clean\_edited.joa  
AR04C\_2004\_SE\_N\_ATL\_pair\_bot\_clean\_edited\_hy1.csv

2005

AR04C\_2005\_15N\_bot\_clean\_edited.joa  
AR04C\_2005\_15N\_bot\_clean\_edited\_hy1.csv

**AR16**

**1992**

## AR18

~~1992~~

~~1993~~

~~1994~~

~~1995~~

1997

AR18\_1997\_section\_map.pdf

AR18\_1997\_bot\_clean\_all\_hy1.csv

AR18\_1997\_bot\_clean\_all.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_1\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_1.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_2\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_2.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_3\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_3.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_4\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_4.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_5a\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_5a.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_5b\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_5b.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_5c\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_5c.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_6a\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_6a.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_6b\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_6b.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_7\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_7.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_8\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_8.joa

AR18\_1997\_bot\_clean\_DenmarkStrait\_9\_hy1.csv

AR18\_1997\_bot\_clean\_DenmarkStrait\_9.joa

AR18\_1997\_bot\_clean\_Faeroe\_Bank\_Channel\_hy1.csv

AR18\_1997\_bot\_clean\_Faeroe\_Bank\_Channel.joa

AR18\_1997\_bot\_clean\_Faeroe\_Shetland\_Channel\_hy1.csv

AR18\_1997\_bot\_clean\_Faeroe\_Shetland\_Channel.joa

AR18\_1997\_bot\_clean\_NE\_Atl\_hy1.csv

AR18\_1997\_bot\_clean\_NE\_Atl.joa

AR18\_1997\_bot\_clean\_SE\_Iceland\_hy1.csv

AR18\_1997\_bot\_clean\_SE\_Iceland.joa

AR18\_1997\_bot\_clean\_SW\_Iceland\_hy1.csv

AR18\_1997\_bot\_clean\_SW\_Iceland.joa

~~WOA~~

## **Mediterranean**

1987

MedSea\_1987\_east\_bot\_clean\_edited\_hy1.csv

MedSea\_1987\_east\_bot\_clean\_edited.joa

1994

MedSea\_1994\_bot\_clean\_edited\_hy1.csv

MedSea\_1994\_bot\_clean\_edited.joa

~~1997~~

~~1998~~

1999

MedSea\_1999\_bot\_clean.joa

MEDSEA\_1999\_bot\_clean2\_hy1.csv

2001

MedSea\_2001\_bot\_clean.joa

MedSea\_2001\_bot\_clean2\_hy1.csv

2011

MedSea\_2011\_clean\_subset\_hy1.csv

MedSea\_2011\_clean\_subset.joa

~~2013~~

~~OSNAP~~

## **FILE NAMES FOR MATCHED CRUISE SEGMENTS**

These matched segments are data from different years which cover the same section or portion of a section. Most sub-sections were designed to lie within one principal geographic domain, such as an ocean basin. (Complete, basin-spanning matched sections, e.g., A02\_1997 versus A02\_2001, can be gleaned from the master cleaned cruise files.) The matched segments from the same line number and with the same name convention are the closest feasible matches to each other. For example, "A02\_1994\_bot\_clean\_east.joa" covers the same stretch of the northeastern Atlantic Ocean as does "A02\_1997\_bot\_clean\_east.joa", "A02\_2001\_bot\_clean\_sorted\_east.joa", and "A02\_2017\_bot\_clean\_east.joa", in order to facilitate interannual comparisons in that part of the ocean, east of the mid-ocean ridge. The many matched crossings of the Labrador Sea (AR07W) are found in the main cleaned cruise files, not in these matched segments.

We also note that sometimes more than one section track crosses a given ocean subregion. These might be zonal and/or meridional line segments. One might, for example, usefully compare a plot of collective data from time period A from a given ocean subregion with a plot of collective data from time period B from the same subregion. Our master map for the Atlantic matched cruise segments (Atlantic Ocean matched line segment map.pdf) shows

the layout of the sub-sections, and where more than one appears in a given geographic domain. For example, part of the meridional A16 transect crosses the same basin as part of the zonal A10 transect (the Brazil Basin in this case) and so all the A16 "southcentral" and A10 "west" line segments could be considered part of a Brazil Basin group.

Note also that for any cruise segment available on the site only in JOA binary format (.joa), one can use the Java OceanAtlas "Export WOCE Exchange file" command (under the JOA "File" menu) to export and save an ascii, comma-delimited WOCE Exchange file (\_hy1.csv), which can then be used in any application which can read ascii, comma-delimited data (such as Ocean Data View or Excel, for example).

AR07E\_1991\_04\_APR\_bot\_clean\_Irminger\_hy1.csv  
AR07E\_1991\_04\_APR\_bot\_clean\_Irminger.joa

AR07E\_1991\_08\_AUG\_bot\_clean\_edited\_Irminger\_hy1.csv  
AR07E\_1991\_08\_AUG\_bot\_clean\_edited\_Irminger.joa

AR07E\_1991\_09\_SEP\_bottle\_clean\_Irminger\_hy1.csv  
AR07E\_1991\_09\_SEP\_bottle\_clean\_Irminger.joa

AR07E\_1992\_bot\_clean\_Irminger\_hy1.csv  
AR07E\_1992\_bot\_clean\_Irminger.joa

AR07E\_1994\_bottle\_clean\_Irminger\_hy1.csv  
AR07E\_1994\_bottle\_clean\_Irminger.joa

AR07E\_1997\_08\_AUG\_b\_bot\_clean\_Irminger\_hy1.csv  
AR07E\_1997\_08\_AUG\_b\_bot\_clean\_Irminger.joa

AR07E\_2000\_bot\_clean.Irminger\_hy1.csv  
AR07E\_2000\_bot\_clean.Irminger.joa

AR07E\_2005\_09\_SEP\_bot\_clean\_edited\_Irminger\_hy1.csv  
AR07E\_2005\_09\_SEP\_bot\_clean\_edited\_Irminger.joa

AR07E\_2007\_bot\_clean\_edited\_Irminger\_hy1.csv  
AR07E\_2007\_bot\_clean\_edited\_Irminger.joa

AR07E\_2012\_06\_JUN\_b\_bot\_clean\_Irminger\_hy1.csv  
AR07E\_2012\_06\_JUN\_b\_bot\_clean\_Irminger.joa

A02\_1993\_06\_JUN\_bot\_clean\_edited\_east.joa  
A02\_1993\_06\_JUN\_bot\_clean\_edited\_west.joa

A02\_1994\_bot\_clean\_east.joa  
A02\_1994\_bot\_clean\_west.joa

A02\_1996\_05\_MAY\_bot\_clean\_east.joa  
A02\_1996\_05\_MAY\_bot\_clean\_west.joa

A02\_1997\_bot\_clean\_east.joa

A02\_1997\_bot\_clean\_west.joa

A02\_1998\_bot\_clean\_edited.east.joa  
A02\_1998\_bot\_clean\_edited.west.joa

A02\_2000\_bot\_clean\_west.joa

A02\_2001\_bot\_clean\_sorted\_east.joa  
A02\_2001\_bot\_clean\_sorted\_west.joa

A02\_2011\_bot\_clean\_east.joa  
A02\_2011\_bot\_clean\_west.joa

A02\_2017\_bot\_clean\_east.joa  
A02\_2017\_bot\_clean\_west.joa

A03\_1993\_bot\_clean3\_east.joa  
A03\_1993\_bot\_clean3\_west.joa

A03\_2005\_bot\_clean3\_east.joa  
A03\_2005\_bot\_clean3\_west.joa

A05\_1992\_bot\_clean\_east.joa  
A05\_1992\_bot\_clean\_westof60W.joa  
A05\_1992\_bot\_clean\_westcentral.joa

A05\_1998\_bot\_clean\_east.joa  
A05\_1998\_bot\_clean\_westcentral.joa  
A05\_1998\_bot\_clean\_westof60W.joa

A05\_2004\_bot\_clean\_east.joa  
A05\_2004\_bot\_clean\_westcentral.joa  
A05\_2004\_bot\_clean\_westof60W.joa

A05\_2010\_bot\_clean3\_east.joa  
A05\_2010\_bot\_clean3\_westof60W.joa  
A05\_2010\_bot\_clean3\_westcentral.joa

A05\_2011\_bot\_clean\_sorted\_east.joa  
A05\_2011\_bot\_clean\_sorted\_westcentral.joa  
A05\_2011\_bot\_clean\_sorted\_westof60W.joa

A05\_2015\_bot\_clean\_edited\_east.joa  
A05\_2015\_bot\_clean\_edited\_westcentral.joa  
A05\_2015\_bot\_clean\_edited\_westof60W.joa

A05\_2020\_bot\_clean2\_east.joa  
A05\_2020\_bot\_clean2\_westof60W.joa  
A05\_2020\_bot\_clean2\_westcentral.joa

A06\_1993\_bot\_clean3\_fareast.joa  
A06\_1993\_bot\_clean3\_eastcentral.joa  
A06\_1993\_bot\_clean3\_west.joa

A06\_2000\_bot\_clean\_edited\_fareast.joa  
A06\_2000\_bot\_clean\_edited\_eastcentral.joa  
A06\_2000\_bot\_clean\_edited\_west.joa

A06\_2010\_bot\_clean\_fareast.joa  
A06\_2010\_bot\_clean\_eastcentral.joa  
A06\_2010\_bot\_clean\_west.joa

A09\_1991\_bot\_clean3\_eastcentral.joa  
A09\_1991\_bot\_clean3\_west.joa

A09.5\_2009\_bot\_clean2\_eastcentral.joa  
A09.5\_2009\_bot\_clean2\_fareast.joa  
A09.5\_2009\_bot\_clean2\_west.joa

A09.5\_2018\_bot\_clean3\_eastcentral.joa  
A09.5\_2018\_bot\_clean3\_fareast.joa  
A09.5\_2018\_bot\_clean3\_west.joa

A10\_1992\_bot\_clean\_east\_new.joa  
A10\_1992\_bot\_clean\_far\_east\_new.joa  
A10\_1992\_bot\_clean\_stn\_west.joa

A10\_2003\_bot\_clean\_east\_new.joa  
A10\_2003\_bot\_clean\_far\_east\_new.joa  
A10\_2003\_bot\_clean\_stn\_west.joa

A10\_2009\_bot\_clean\_fareast.joa  
A10\_2009\_bot\_clean\_eastcentral.joa  
A10\_2009\_bot\_clean\_west.joa

A10\_2011\_bot\_clean\_east\_new.joa  
A10\_2011\_bot\_clean\_Far\_east\_new.joa  
A10\_2011\_bot\_clean\_stn\_west.joa

A10\_2017\_bot\_clean3\_edited\_fareast.joa  
A10\_2017\_bot\_clean3\_edited\_east.joa  
A10\_2017\_bot\_clean3\_edited\_west.joa

A10\_2018\_bot\_clean4\_east.joa  
A10\_2018\_bot\_clean4\_fareast.joa  
A10\_2018\_bot\_clean4\_west.joa

A12\_1992\_south\_to55S\_bot\_clean3\_edited.joa

A12\_2008a\_northof55S\_bot\_clean\_edited\_sorted.joa

A12\_2014\_northof55S\_bot\_clean3\_edited.joa  
A12\_2014\_south\_to55S\_bot\_clean3\_edited.joa

A13\_1995\_bot\_clean\_edited\_Nof2S.joa  
A13\_1995\_bot\_clean\_edited\_22.5Sto2.5S.joa  
A13\_1995\_bot\_clean\_edited\_40Sto22.5S.joa

A13.5 AJAX\_1983\_1984\_bottle\_clean\_south.joa  
A13.5 AJAX\_1983\_1984\_bottle\_clean\_30Sto7S.joa  
A13.5 AJAX\_1983\_1984\_bottle\_clean\_northof7S.joa

A13.5\_2010\_bot\_clean\_south.joa  
A13.5\_2010\_bot\_clean\_30Sto7S.joa  
A13.5\_2010\_bot\_clean\_northof7S.joa

A16\_1988\_1989\_bot\_clean\_south.joa  
A16\_1988\_1989\_bot\_clean\_southcentral.joa  
A16\_1988\_1989\_bot\_clean\_1Sto18N.joa  
A16\_1988\_1989\_bot\_clean\_18Nto42N.joa  
A16\_1988\_1989\_bot\_clean\_42Nto64N.joa

A16N\_1998\_bot\_clean\_42Nto64N.joa  
A16N\_1998\_bot\_clean\_20Nto42N.joa

A16\_2003\_2005\_bot\_clean\_farsouth.joa  
A16\_2003\_2005\_bot\_clean\_south.joa  
A16\_2003\_2005\_bot\_clean\_southcentral.joa  
A16\_2003\_2005\_bot\_clean\_1Sto18N.joa  
A16\_2003\_2005\_bot\_clean\_18Nto42N.joa  
A16\_2003\_2005\_bot\_clean\_42Nto64N.joa

A16\_2013\_2014\_bot\_clean\_farsouth.joa  
A16\_2013\_2014\_bot\_clean\_south.joa  
A16\_2013\_2014\_bot\_clean\_southcentral.joa  
A16\_2013\_2014\_bot\_clean\_1Sto18N.joa  
A16\_2013\_2014\_bot\_clean\_18Nto42N.joa  
A16\_2013\_2014\_bot\_clean\_42Nto64N.joa

A20\_1997\_bot\_clean\_sorted\_northof20N.joa  
A20\_1997\_bot\_clean\_sorted\_southof20N.joa

A20\_2003\_bot\_clean\_sorted\_northof20N.joa  
A20\_2003\_bot\_clean\_sorted\_southof20N.joa

A20\_2012\_bot\_clean\_northof20N.joa  
A20\_2012\_bot\_clean\_southof20N.joa

A20\_2021\_bot\_clean\_edited\_northof20N.joa  
A20\_2021\_bot\_clean\_edited\_southof20N.joa



A22\_1997\_bot\_clean\_sorted\_south.joa  
A22\_1997\_bot\_clean\_sorted\_north.joa

A22\_2003\_bot\_clean\_sorted\_south.joa  
A22\_2003\_bot\_clean\_sorted\_north.joa

A22\_2012\_bot\_clean\_sorted\_south.joa  
A22\_2012\_bot\_clean\_sorted\_north.joa

A22\_2021\_bot\_clean\_edited\_north.joa  
A22\_2021\_bot\_clean\_edited\_south.joa

A25\_1997\_bot\_clean\_edited\_SE.joa  
A25\_1997\_bot\_clean\_edited\_central.joa  
A25\_1997\_bot\_clean\_edited\_NW.joa

A25\_OVIDE\_2002\_bot\_clean3\_SE.joa  
A25\_OVIDE\_2002\_bot\_clean3\_central.joa  
A25\_OVIDE\_2002\_bot\_clean3\_NW.joa

A25\_OVIDE\_2004\_bot\_clean\_edited\_SE.joa  
A25\_OVIDE\_2004\_bot\_clean\_edited\_central.joa  
A25\_OVIDE\_2004\_bot\_clean\_edited\_NW.joa

A25\_OVIDE\_2006\_bot\_clean\_edited\_SE.joa  
A25\_OVIDE\_2006\_bot\_clean\_edited\_central.joa  
A25\_OVIDE\_2006\_bot\_clean\_edited\_NW.joa

A25\_OVIDE\_2008\_bot\_clean\_SE.joa  
A25\_OVIDE\_2008\_bot\_clean\_central.joa  
A25\_OVIDE\_2008\_bot\_clean\_NW.joa

A25\_OVIDE\_2010\_bot\_clean\_SE.joa  
A25\_OVIDE\_2010\_bot\_clean\_central.joa  
A25\_OVIDE\_2010\_bot\_clean\_NW.joa

A25\_OVIDE\_2012\_bot\_clean\_sorted\_SE.joa  
A25\_OVIDE\_2012\_bot\_clean\_sorted\_central.joa  
A25\_OVIDE\_2012\_bot\_clean\_sorted\_NW.joa

A25\_OVIDE\_2014\_bot\_clean\_edited\_SE.joa  
A25\_OVIDE\_2014\_bot\_clean\_edited\_central.joa  
A25\_OVIDE\_2014\_bot\_clean\_edited\_NW.joa

A25\_OVIDE\_2016\_bot\_clean\_edited\_SE.joa  
A25\_OVIDE\_2016\_bot\_clean\_edited\_central.joa  
A25\_OVIDE\_2016\_bot\_clean\_edited\_NW.joa