

# PACIFIC SECTION CRUISE AND CLEAN FILE NAME LIST

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This is a list of all Pacific 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 Because we are always adding new files, it may be slightly out of date, but the intent is to update this list as needed.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.

There are two special purpose data sets within the Pacific files: 'Line P' seasonal timeseries CTD sections in the NE Pacific off Vancouver Island and the Hawaii Ocean Timeseries ('HOT') monthly bottle and CTD profiles from a site northwest of Oahu.

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/pacificdata> 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.

PLEASE NOTE: A list of matched cruise segments (for the matched segments area of the JOA Suite data site) appears at the end of this document.

## **P01**

1985

P01\_1985\_bottle\_clean.joa  
P01\_1985\_bottle\_clean\_hy1.csv

1999

P01\_1999\_bot\_clean\_edited.joa  
P01\_1999\_bot\_clean\_edited\_hy1.csv

2007

P01\_2007\_bot\_clean\_complete\_sorted.joa  
P01\_2007\_bot\_clean\_complete\_sorted\_hy1.csv

2014

P01\_2014\_bot\_clean\_hy1.joa  
P01\_2014\_bot\_clean\_hy1.csv

WOA

## **P01NW**

P01NW\_1993\_bot\_clean\_edited\_hy1.csv  
P01NW\_1993\_bot\_clean\_edited.joa

WOA

## **P02**

1993\_1994

P02\_1993\_1994\_botclean\_T\_S\_O2.joa  
P02\_1993\_1994\_botclean\_T\_S\_O2\_hy1.csv

**1994**

2004

P02\_2004\_bot\_clean\_sorted.joa  
P02\_2004\_bot\_clean\_sorted\_hy1.csv  
P02\_2004\_ct1.zip  
P02\_2004\_ctd\_clean.joa

**2010**

2013  
P02\_2013\_bot\_clean\_sorted.joa  
P02\_2013\_bot\_clean\_sorted\_hy1.csv  
P02\_2013\_ct1.zip  
P02\_2013\_ctd\_clean.joa

WOA  
P02\_WOA05\_in\_mass\_units.joa  
P02\_WOA05\_in\_mass\_units\_hy1.csv

### **P03**

1985  
P03\_1985\_all\_bot\_clean2.joa  
P03\_1985\_all\_bot\_clean2\_hy1.csv  
P03\_1985\_ct1.zip  
P03\_1985\_ctd\_clean.joa

2005\_2006  
P03\_2005\_2006\_all\_bot\_clean2.joa  
P03\_2005\_2006\_all\_bot\_clean2\_hy1.csv

2013  
P03W\_2013\_bot\_clean\_edited\_hy1.csv  
P03W\_2013\_bot\_clean\_edited.joa

WOA

### **P04**

1989  
P04\_1989\_merged\_bot\_clean\_edited\_hy1.csv  
P04\_1989\_merged\_bot\_clean\_edited.joa

**P04W**

**2015**

**P05H**

**1987**

### **P06**

1967  
P06\_1967\_28S\_mass\_clean.joa  
P06\_1967\_28S\_mass\_clean\_hy1.csv

1992  
P06\_1992\_bot\_clean.joa  
P06\_1992\_bot\_clean\_hy1.csv  
P06\_1992\_ct1.zip  
P06\_1992\_ctd\_clean.joa

2003  
P06\_2003\_bot\_clean.joa  
P06\_2003\_bot\_clean\_hy1.csv  
P06\_2003\_ct1.zip

## 2006

2009\_2010  
P06\_2009\_2010\_bot\_clean.joa  
P06\_2009\_2010\_bot\_clean\_hy1.csv  
P06\_2009\_2010\_ct1.zip  
P06\_2009\_2010\_ctd\_clean.joa

2017  
P06\_2017\_bot\_clean.joa  
P06\_2017\_bot\_clean\_hy1.csv

WOA  
P06\_WOA05\_in\_mass\_units.joa  
P06\_WOA05\_in\_mass\_units\_hy1.csv

## P08

1974  
(It is unclear if Jim has a 1974 cruise along the P08 longitude in his pre-WOCE collection. If so, this will be a file that must have its oxygens and nutrients converted from volume to mass units. Something that will be done later.)

1996a  
P08\_1996\_JUN\_bot\_clean\_merged\_edited\_hy1.csv  
P08\_1996\_JUN\_bot\_clean\_merged\_edited.joa

1996b  
P08\_1996\_JUL\_someOCT\_bot\_clean\_edited\_hy1.csv  
P08\_1996\_JUL\_someOCT\_bot\_clean\_edited.joa

WOA

## P09/PR02

P09\_1994\_bot\_clean.joa  
P09\_1994\_bot\_clean2\_hy1.csv

P09\_2016\_bot\_clean.joa

P09\_2016\_bot\_clean2\_hy1.csv

P09\_2019\_bot\_clean\_edited\_hy1.csv  
P09\_2019\_bot\_clean\_edited.joa

P09\_PR02\_1990\_bot\_clean\_edited\_hy1.csv  
P09\_PR02\_1990\_bot\_clean\_edited.joa

P09\_PR02\_1991\_01\_JAN\_bot\_clean.joa  
P09\_PR02\_1991\_01\_JAN\_bot\_clean2\_hy1.csv

P09\_PR02\_1991\_06\_JUN\_bot\_clean.joa  
P09\_PR02\_1991\_06\_JUN\_bot\_clean2\_hy1.csv

P09\_PR02\_1992\_01\_JAN\_bot\_clean.joa  
P09\_PR02\_1992\_01\_JAN\_bot\_clean2\_hy1.csv

P09\_PR02\_1992\_07\_JUL\_bot\_clean.joa  
P09\_PR02\_1992\_07\_JUL\_bot\_clean2\_hy1.csv

P09\_PR02\_1993\_01\_JAN\_bot\_clean.joa  
P09\_PR02\_1993\_01\_JAN\_bot\_clean2\_hy1.csv

P09\_PR02\_1993\_07\_JUL\_bot\_clean.joa  
P09\_PR02\_1993\_07\_JUL\_bot\_clean2\_hy1.csv

P09\_PR02\_1994\_bot\_clean.joa  
P09\_PR02\_1994\_bot\_clean2\_hy1.csv

P09\_PR02\_1999\_bot\_clean.joa  
P09\_PR02\_1999\_bot\_clean2\_hy1.csv

P09\_PR02\_2009\_01\_JAN\_bot\_clean.joa  
P09\_PR02\_2009\_01\_JAN\_bot\_clean2\_hy1.csv

P09\_PR02\_2009\_04\_APR\_bot\_clean.joa  
P09\_PR02\_2009\_04\_APR\_bot\_clean2\_hy1.csv

P09\_PR02\_2011\_bot\_clean.joa  
P09\_PR02\_2011\_bot\_clean2\_hy1.csv

WOA

## **P10**

1993  
P10\_1993\_bot\_clean.joa  
P10\_1993\_bot\_clean2\_hy1.csv

2005  
P10\_2005\_bot\_clean\_edited\_hy1.csv  
P10\_2005\_bot\_clean\_edited.joa

2011  
P10\_2011\_01\_JAN\_bot\_clean\_edited\_hy1.csv  
P10\_2011\_01\_JAN\_bot\_clean\_edited.joa

2011\_2012  
P10\_2011\_2012\_bot\_clean\_edited\_hy1.csv  
P10\_2011\_2012\_bot\_clean\_edited.joa

2014  
P10\_2014\_06\_JUN\_bot\_clean.joa  
P10\_2014\_06\_JUN\_bot\_clean2\_hy1.csv

WOA

## **P11**

1993  
P11\_1993\_bot\_clean\_hy1.csv  
P11\_1993\_bot\_clean.joa

## **P12S/SR03**

Data users please note: The P12S/SR03 data can be found in the SR03 area of the Southern Ocean "best" CTD/hydrographic data collection.

## **P13**

1991\_1993  
P13\_1991\_1993\_bot\_clean\_hy1.csv  
P13\_1991\_1993\_bot\_clean.joa

1992  
P13\_1992\_bot\_clean.joa  
P13\_1992\_bot\_clean2\_hy1.csv

2009  
P13\_2009\_bot\_clean.joa  
P13\_2009\_bot\_clean2\_hy1.csv

2009  
P13N\_2009\_06\_JUN\_bot\_clean.joa  
P13N\_2009\_06\_JUN\_bot\_clean2\_hy1.csv

2010  
P13\_2010\_bot\_clean\_edited\_hy1.csv  
P13\_2010\_bot\_clean\_edited.joa

2011  
P13\_2011\_bot\_clean\_edited.joa

P13\_2011\_bot\_clean\_edited.joa.jos

#### **P14**

1996\_1993\_1992

P14\_1996\_1993\_1992\_bot\_clean\_hy1.csv

P14\_1996\_1993\_1992\_bot\_clean.joa

2007\_2012

P14\_2007\_2012\_bot\_clean\_hy1.csv

P14\_2007\_2012\_bot\_clean.joa

2007

P14C\_2007\_bot\_clean\_hy1.csv

P14C\_2007\_bot\_clean.joa

2012

P14N\_2012\_bot\_clean\_hy1.csv

P14N\_2012\_bot\_clean.joa

#### **P14S**

1996

2012

#### **P15N/C/S**

1970

JHS to inspect pre-WOCE files for a 1970 cruise along the P15 longitude ( $175^{\circ}\text{W}$ ).

1990

1994

P15\_1994\_bot\_clean\_merged\_hy1.csv

P15\_1994\_bot\_clean\_merged.joa

1996

P15S\_1996\_bot\_clean3\_hy1.csv

P15S\_1996\_bot\_clean3.joa

2001

P15S\_2001\_bot\_clean.joa

P15S\_2001\_bot\_clean2\_hy1.csv

2009

P15S\_2009\_bot\_clean.joa

P15S\_2009\_bot\_clean2\_hy1.csv

2011

(P15S\_ANT\_2011 will be extracted from the S04P\_2011 complete bottle data file.)

2016

P15S\_2016\_bot\_clean3.joa  
P15S\_2016\_bot\_clean3\_hy1.csv

2018

(P15S\_ANT\_2018 will be extracted from the S04P\_2018 complete bottle data file.)

## **P16**

**1980**

1984  
P16N\_1984\_bot\_clean3.joa  
P16N\_1984\_bot\_clean3\_hy1.csv

1991\_1992

P16\_1991\_1992\_bot\_clean\_edited.joa  
P16\_1991\_1992\_bot\_clean\_edited\_hy1.csv  
P16\_1991\_1992\_ctd\_clean.joa

**1997**

2005-2006  
P16\_2005\_2006\_bot\_clean.joa  
P16\_2005\_2006\_bot\_clean2\_hy1.csv  
P16\_2005\_2006\_ct1.zip  
P16\_2005\_2006\_ctd\_clean.joa

**2006**

**2008**

2014\_2015  
P16\_2014\_2015\_bot\_clean\_sorted.joa  
P16\_2014\_2015\_bot\_clean2\_sorted\_hy1.csv

**2015\_4**

**2015\_5**

2018

P16C\_P16N\_2018\_bot\_clean.joa  
P16C\_P16N\_2018\_bot\_clean\_hy1.csv

WOA

P16\_WOA05\_in\_mass\_units\_hy1.csv  
P16\_WOA05\_in\_mass\_units.joa

## **P16S\_ANT**

2011  
P16S\_ANT\_2011\_76Sto67S\_bot\_clean\_hy1.joa  
P16S\_ANT\_2011\_76Sto67S\_bot\_clean2\_hy1.csv

2018  
P16S\_ANT\_2018\_75Sto67S\_bot\_clean.joa  
P16S\_ANT\_2018\_75Sto67S\_bot\_clean\_hy1.csv

**1991**

**2005**

**2014**

### **P16\_complete**

Note to data users: A P16S\_ANT file can be added to a P16 file to create a complete Antarctica to Kodiak P16 section along 150°W. [If using JOA, open a P16S\_ANT file first, then use JOA's "Add Data..." command (under the JOA "File" menu) to open the main P16 file), which will concatenate with the P16S\_ANT file.] In P16\_complete 2011\_2014\_2015 we combined P16S\_ANT\_2011\_76Sto67S\_bot\_clean\_hy1.joa with P16\_2014\_2015\_bot\_clean\_sorted.joa.

2011\_2014\_2015  
P16\_complete\_2011\_2014\_2015\_bot\_clean.joa  
P16\_complete\_2011\_2014\_2015\_bot\_clean\_hy1.csv

### **P17**

1991\_1992\_1993  
P17\_1992\_1991\_1993\_sorted\_bot\_clean\_hy1.csv  
P17\_1992\_1991\_1993\_sorted\_bot\_clean.joa

2001  
P17N\_2001\_bot\_clean\_hy1.csv  
P17N\_2001\_bot\_clean.joa

**2017**

### **P17NE**

1993  
P17NE\_GulfAlaska\_1993\_clean\_bottle.joa  
P17NE\_GulfAlaska\_1993\_clean\_bottle\_hy1.csv

### **P17E\_P19C\_53S**

1992\_1993

P17E\_1992\_P19C\_1993\_53S\_bottle\_clean.joa  
P17E\_1992\_P19C\_1993\_53S\_bottle\_clean\_hy1.csv

### **P18**

1994  
P18\_1994\_bot\_clean.joa  
P18\_1994\_bot\_clean\_hy1.csv

2007  
P18\_2007\_bot\_clean2.joa  
P18\_2007\_bot\_clean2\_hy1.csv

2016  
P18\_2016\_bot\_clean\_sorted.joa  
P18\_2016\_bot\_clean\_sorted\_hy1.csv  
P18\_2016\_CTD\_clean\_sorted.joa

### **P19**

1993  
P19\_1993\_bottle\_clean\_sorted.joa  
P19\_1993\_bottle\_clean\_sorted\_hy1.csv

**+1995**

### **P21**

1994  
P21\_1994\_bot\_clean3.joa  
P21\_1994\_bot\_clean3\_hy1.csv

2009  
P21\_2009\_all\_bot\_clean2.joa  
P21\_2009\_all\_bot\_clean2\_hy1.csv

2013  
P21E\_2013\_Geotraces\_bottle\_ODF\_CFC\_clean\_hy1.csv  
P21E\_2013\_Geotraces\_bottle\_ODF\_CFC\_clean.joa

### **P31**

1994  
P31\_1994\_bot\_clean.joa  
P31\_1994\_bot\_clean2\_hy1.csv

**ALIZE**

## Line P

The "Line P" section in the Northeast Pacific extends from the site of the former Weather Station P (Papa) at 50°N, 145°W, heading roughly east to the southern tip of Vancouver island. In more recent years, the section has been repeated approximately February, May, and August each year. In this data collection are sorted sections of CTD data made from the deepest CTD cast at each Line P location, west to east, for each Line P cruise in the CCHDO files for which the data were available and successfully imported to Java OceanAtlas. No data values were changed from those in the original CCHDO files. For each cruise, in addition to the JOA binary ".joa" file there was an original ascii \_ct1.csv file, but those contain other casts and are not yet sorted geographically. (We will eventually get cleaned ascii CTD files on line for the Line P cruises.) Data from some cruises are listed as missing until their data import issues are resolved. The CCHDO shows Line P (or perhaps Station P) cruises extending back to 1970 and earlier, but as yet has no data from the earlier cruises.

Line\_P\_2007\_02\_FEB (data not yet cleaned)  
Line\_P\_2007\_05\_MAY\_CTD\_clean.joa  
Line\_P\_2007\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2008\_01\_JAN\_CTD\_clean.joa  
Line\_P\_2008\_05\_MAY\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2008\_08\_AUG\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2009\_01\_JAN\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2009\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2009\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2010\_02\_FEB\_CTD\_clean.joa  
Line\_P\_2010\_06\_JUN\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2010\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2011\_02\_FEB\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2011\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2011\_08\_AUG (data not yet cleaned)  
Line\_P\_2012\_02\_FEB\_CTD\_clean.joa  
Line\_P\_2012\_05\_MAY\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2012\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2013\_02\_FEB\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2013\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2013\_08\_AUG\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2014\_02\_FEB\_CTD\_clean.joa  
Line\_P\_2014\_06\_JUN\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2014\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2015\_02\_FEB\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2015\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2015\_08\_AUG\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2016\_02\_FEB\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2016\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2016\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2017\_02\_FEB\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2017\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2017\_08\_AUG\_CTD\_clean.joa (format problem still being addressed)  
Line\_P\_2018\_02\_FEB\_CTD\_clean.joa  
Line\_P\_2018\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2018\_09\_SEP\_CTD\_clean.joa  
Line\_P\_2019\_02\_FEB\_CTD\_clean.joa (format problem still being addressed)

Line\_P\_2019\_06\_JUN\_CTD\_clean.joa  
Line\_P\_2019\_08\_AUG\_CTD\_clean.joa  
Line\_P\_2020\_02\_FEB\_CTD\_clean.joa

## HOT - Hawaii Ocean Timeseries

The Hawaii Ocean Timeseries is a long-term program initiated in 1988 focusing on near-monthly sampling of various types at a single location northwest of Oahu. We provide single bottle and CTD profiles from each HOT cruise for which usable data are available beginning October, 1988. (Some months were missed by the HOT program and data from a few cruises are still being reconstructed from original HOT data.) No single HOT bottle cast covered the full water column. Thus data from the two (or sometimes three) HOT bottle casts from each cruise which together best represent the water column were combined here into a single profile for each HOT cruise. No data values were changed from those in the original CCHDO files, but no uncertain (WOCE Code 3) or bad (WOCE Code 4) data were retained. The CTD data here are those from the deepest of the casts used to make the cleaned bottle data profile. This document lists only the files where we have combined the cleaned data from all the monthly cruises into single multi-year timeseries files for the bottle and CTD data. [The CTD and cleaned bottle data profiles for individual monthly cruises are, however, also available from Jim Swift. When we determine an efficient means of presenting the monthly cruise data for download, we will update the site.] When plotting these data, one suggestion is to make vertical sections with time as the X-axis, or property-property plots where the data dots are colored by time or season (suggesting JFM, AMJ, JAS, and OND to match NOAA/NCEI/NODC conventions).

HOT\_timeseries\_1988\_to\_2019\_bot\_clean\_27SEP2021.joa  
HOT\_timeseries\_1988\_to\_2019\_bot\_clean\_27SEP2021\_hy1.csv  
HOT\_1988to2019\_CTD\_timeseries.joa  
HOT\_1988to2019\_CTD\_timeseries\_ct1.zip

## FILE NAMES FOR MATCHED CRUISE SEGMENTS

These matched segments are data from different years which cover, as best as feasible, the same section or portion of a section. The sub-sections were designed to lie within one geographic domain, such as an ocean basin. (Complete, ocean-spanning matched sections, i.e. A02\_1997 versus A02\_2001, can be gleaned from the master cleaned cruise files elsewhere on the site.) 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.

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 map ("Pacific Ocean matched line segment map.pdf") shows which sub-sections from different WOCE line numbers lie within the same 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 are part of a Brazil Basin group, which we have termed the "West Central South Atlantic".

Note also that for any cruise segment available only in JOA binary format (suffix ".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 (suffix "\_hy1.csv"), which can then be used in any application which can read ascii, comma-delimited data (such as Ocean Data View, for example).

## P01

P01\_1985\_bottle\_clean\_west.joa  
P01\_1985\_bottle\_clean\_centralwestof165W.joa  
P01\_1985\_bottle\_clean\_eastof165W.joa

P01\_2007\_bot\_clean\_west.joa  
P01\_2007\_bot\_clean\_centralwestof165W.joa  
P01\_2007\_bot\_clean\_eastof165W.joa

P01\_2014\_bot\_clean\_centralwestof165W.joa  
P01\_2014\_bot\_clean\_eastof165W.joa  
P01\_2014\_bot\_clean\_west.joa

## P02

P02\_1993\_1994\_botclean\_T\_S\_O2\_165Wto132W.joa  
P02\_1993\_1994\_botclean\_T\_S\_O2\_179Eto132W.joa  
P02\_1993\_1994\_botclean\_T\_S\_O2\_eastof132W.joa  
P02\_1993\_1994\_botclean\_T\_S\_O2\_farwest.joa  
P02\_1993\_1994\_botclean\_T\_S\_O2\_west.joa

P02\_2004\_bot\_clean\_sorted\_165Wto132W.joa  
P02\_2004\_bot\_clean\_sorted\_179Eto132W.joa  
P02\_2004\_bot\_clean\_sorted\_eastof132W.joa  
P02\_2004\_bot\_clean\_sorted\_farwest.joa  
P02\_2004\_bot\_clean\_sorted\_west.joa

P02\_2013\_bot\_clean\_sorted\_165Wto132W.joa  
P02\_2013\_bot\_clean\_sorted\_179Eto132W.joa  
P02\_2013\_bot\_clean\_sorted\_eastof132W.joa  
P02\_2013\_bot\_clean\_sorted\_farwest.joa  
P02\_2013\_bot\_clean\_sorted\_west.joa

## P03

P03\_1985\_all\_bot\_clean2\_eastcentral.joa  
P03\_1985\_all\_bot\_clean2\_fareast.joa  
P03\_1985\_all\_bot\_clean2\_farwest.joa  
P03\_1985\_all\_bot\_clean2\_westcentral.joa

P03\_2005\_2006\_all\_bot\_clean2\_eastcentral.joa  
P03\_2005\_2006\_all\_bot\_clean2\_farest.joa  
P03\_2005\_2006\_all\_bot\_clean2\_farwest.joa  
P03\_2005\_2006\_all\_bot\_clean2\_westcentral.joa

## **P06**

P06\_1992\_bot\_clean\_central.joa  
P06\_1992\_bot\_clean\_east.joa  
P06\_1992\_bot\_clean\_west.joa

P06\_2003\_bot\_clean\_central.joa  
P06\_2003\_bot\_clean\_east.joa  
P06\_2003\_bot\_clean\_west.joa

P06\_2009\_2010\_bot\_clean\_central.joa  
P06\_2009\_2010\_bot\_clean\_east.joa  
P06\_2009\_2010\_bot\_clean\_west.joa

P06\_2017\_bot\_clean\_central.joa  
P06\_2017\_bot\_clean\_east.joa  
P06\_2017\_bot\_clean\_west.joa

## **P10**

P10\_1993\_bot\_clean\_central.joa  
P10\_1993\_bot\_clean\_northto30N.joa  
P10\_1993\_bot\_clean\_south.joa

P10\_2011\_2012\_bot\_clean2\_central.joa  
P10\_2011\_2012\_bot\_clean2\_south.joa  
P10\_2011\_2012\_bot\_clean2\_northto30N.joa

**P14** (need to add P14 ANT segments; also these may need to be remade from latest cleaned files)

P14\_1992\_1993\_bot\_clean\_Bering.joa  
P14\_1992\_1993\_bot\_clean\_north.joa  
P14\_1992\_1993\_bot\_clean\_central\_21Nto30N.joa  
P14\_1992\_1993\_bot\_clean\_central\_13Sto21N.joa  
P14\_1992\_1993\_bot\_clean\_south.joa

P14\_2007\_key\_bot\_clean\_Bering.joa  
P14\_2007\_key\_bot\_clean\_north.joa  
P14\_2007\_key\_bot\_clean\_central\_21Nto30N.joa  
P14\_2007\_key\_bot\_clean\_central\_13Sto21N.joa  
P14\_2007\_key\_bot\_clean\_south.joa

## **P15**

P15S\_1996\_bot\_clean3\_central.joa  
P15S\_1996\_bot\_clean3\_north.joa  
P15S\_1996\_bot\_clean3\_south\_v2.joa  
P15S\_1996\_bot\_clean3\_farsouth.joa

P15S\_2016\_bot\_clean3\_north.joa  
P15S\_2016\_bot\_clean3\_central.joa  
P15S\_2016\_bot\_clean3\_south\_v2.joa  
P15S\_2016\_bot\_clean3\_farsouth.joa

## **P16**

P16\_1991\_1992\_bot\_clean\_northof37N.joa  
P16\_1991\_1992\_bot\_clean\_19Nto37N.joa  
P16\_1991\_1992\_bot\_clean\_17Sto19N.joa  
P16\_1991\_1992\_bot\_clean\_49Sto17S.joa  
P16\_1991\_1992\_bot\_clean\_59Sto49S.joa

P16\_2005\_2006\_bot\_clean\_northof37N.joa  
P16\_2005\_2006\_bot\_clean\_19Nto37N.joa  
P16\_2005\_2006\_bot\_clean\_17Sto19N.joa  
P16\_2005\_2006\_bot\_clean\_49Sto17S.joa  
P16\_2005\_2006\_bot\_clean\_59Sto49S.joa  
P16\_2005\_2006\_bot\_clean\_southof59S.joa

P16\_2014\_2015\_bot\_clean\_northof37N.joa  
P16\_2014\_2015\_bot\_clean\_19Nto37N.joa  
P16\_2014\_2015\_bot\_clean\_17Sto19N.joa  
P16\_2014\_2015\_bot\_clean\_49Sto17S.joa  
P16\_2014\_2015\_bot\_clean\_59Sto49S.joa  
P16\_2014\_2015\_bot\_clean\_southof59S.joa

## **P18**

P18\_1994\_bot\_clean\_north.joa  
P18\_1994\_bot\_clean\_central.joa  
P18\_1994\_bot\_clean\_southfrom67S.joa

P18\_2007\_bot\_clean\_north.joa  
P18\_2007\_bot\_clean\_central.joa  
P18\_2007\_bot\_clean\_southfrom67S.joa

P18\_2016\_bot\_clean\_north.joa  
P18\_2016\_bot\_clean\_central.joa  
P18\_2016\_bot\_clean\_southfrom67S.joa

## **P21**

P21\_1994\_bot\_clean3\_west.joa

P21\_1994\_bot\_clean3\_westcentral.joa  
P21\_1994\_bot\_clean3\_eastcentral.joa  
P21\_1994\_bot\_clean3\_eastto79W\_v2.joa

P21\_2009\_all\_bot\_clean2\_west.joa  
P21\_2009\_all\_bot\_clean2\_westcentral.joa  
P21\_2009\_all\_bot\_clean2\_eastcentral.joa  
P21\_2009\_all\_bot\_clean2\_eastto79W\_v2.joa