

# Argo Data Management report 2017 US GDAC (Global Data Assembly Center) November 22<sup>nd</sup>, 2017

 Global Ocean Data Assimilation Experiment

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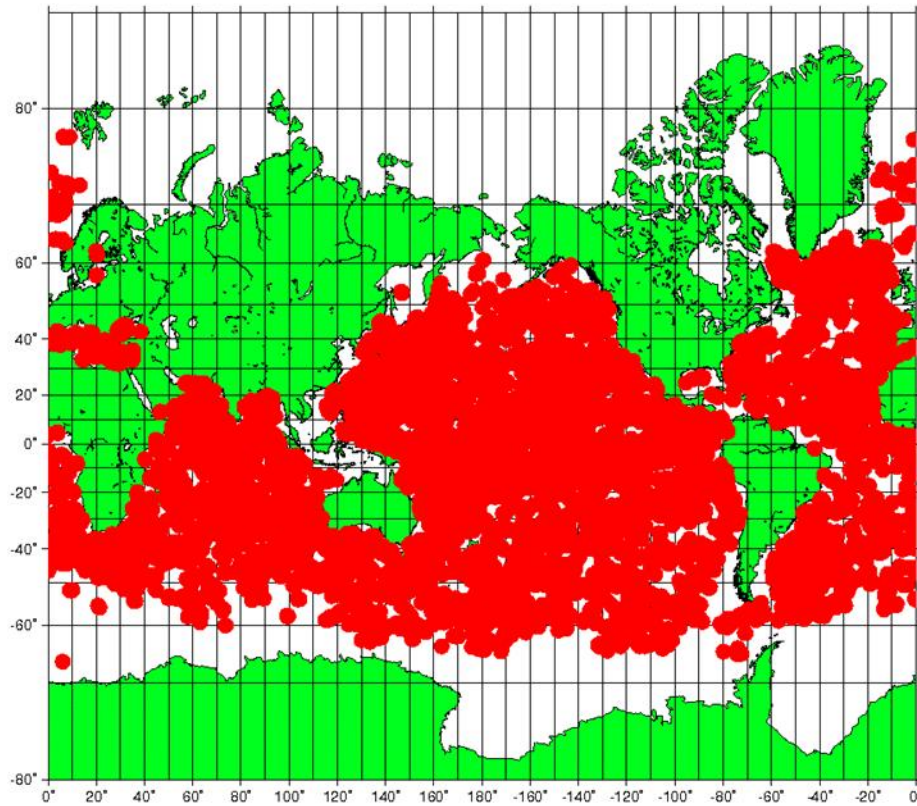
Select the DAC, dates,  
coordinate box,  
output preference and  
press Go to execute

Year Month Day North  
START: 2016 08 01 West -180 180 East  
END: 2016 09 22 South -90

DAC FloatID Output Type:  
ALL aoml bodc csiro gts ALL  
 Text List Only  
 Text List and Location Plot  
 Text/Loc Plot with ProfileIDs

Return Delayed Mode Profiles Only  
Go Reset

USGODAE Argo GDAC Data Browser



## GDAC Functions

(If your centre operates a GDAC, report the progress made on the following tasks and if not yet complete, estimate when you expect them to be complete)

- National centres reporting to you
- Operations of the ftp server
- Operations of the www server
- Data synchronization
- Statistics of Argo usage: Ftp and WWW access, characterization of users ( countries, field of interest : operational models, scientific applications) ...

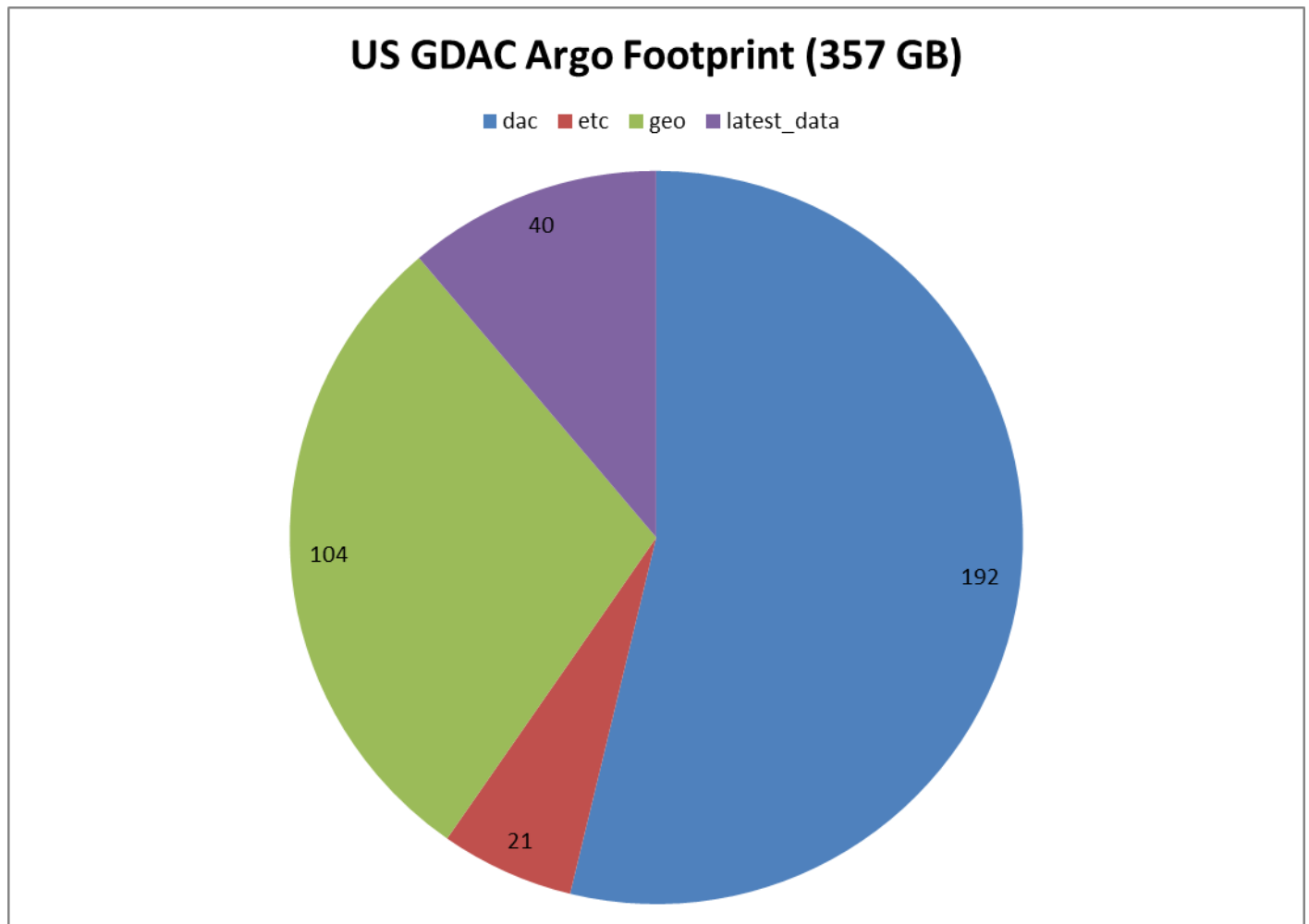
## National centres reporting to you

Currently, 9 of the National DACs submit regularly to the US GDAC. The other DACs use the Coriolis as a proxy, and the US GDAC downloads the data from this proxy.

As of November 24th, 2017, the following shows the Argo footprint on the US GDAC.

DAC	MetaData	Technical	Trajectory	Trajectory D-Mode	Trajectory Bio
AOML	6,598	6,452	8,057	1,604	0
BODC	636	616	479	0	0
Coriolis	2,553	2,527	2,462	1	301
CSIO	368	357	363	0	0
CSIRO	805	791	780	0	0
INCOIS	422	410	383	0	18
JMA	1,550	1,489	1,484	0	0
KMA	227	207	208	0	1
KORDI	119	115	119	0	0
MEDS	472	458	456	0	15
NMDIS	19	19	19	0	0
Totals	13,769	13,441	14,810	1,605	335

DAC	Profiles	Profiles D-Mode	Profiles Bio
AOML	995,238	685,605	36,892
BODC	70,578	33,015	3,032
Coriolis	263,673	178,782	41,097
CSIO	44,893	10,221	6,344
CSIRO	140,946	120,517	20,144
INCOIS	58,493	28,008	5,191
JMA	188,659	115,044	14,599
KMA	28,975	23,094	84
KORDI	16,578	6,986	0
MEDS	47,950	31,687	3,817
NMDIS	2,460	0	0
Totals	1,858,443	1,232,959	131,200



## **Operations of the ftp server**

The US GDAC hosts an anonymous FTP server that allows download to all available Argo data that it currently has. This includes the Argo aggregate files, as well as, the raw NetCDF files that are received by the DACs. Additionally, the Argo index files are available for download as well. These index files are updated on the US GDAC approximately twice per hour.

US GDAC FTP server: <ftp://usgodae.org/pub/outgoing/argo>

## **Operations of the www server**

The US GDAC hosts an apache webserver that allows the users to download Argo data via standard tools such as wget. Similar to the FTP server, all Argo data is available for download.

In addition the US GDAC hosts the 'USGODAE Argo GDAC data browser' that allows for limited querying capabilities (time, area, dac, etc).

US GDAC HTTP server: <http://usgodae.org/pub/outgoing/argo>

Argo Data Browser: [http://usgodae.org/cgi-bin/argo\\_select.pl](http://usgodae.org/cgi-bin/argo_select.pl)

## **Data synchronization**

The US GDAC synchronizes with the French GDAC once per day at 1015 UTC. The process involves downloading all of the index files from the French GDAC and comparing them to the local US GDAC. After comparison, all necessary files are then downloaded and submitted normally into the US GDAC.

The typical synchronization takes approximately 15 minutes to complete each day. However, there are times when it takes much longer and we need to investigate.

## Statistics of Argo data usage

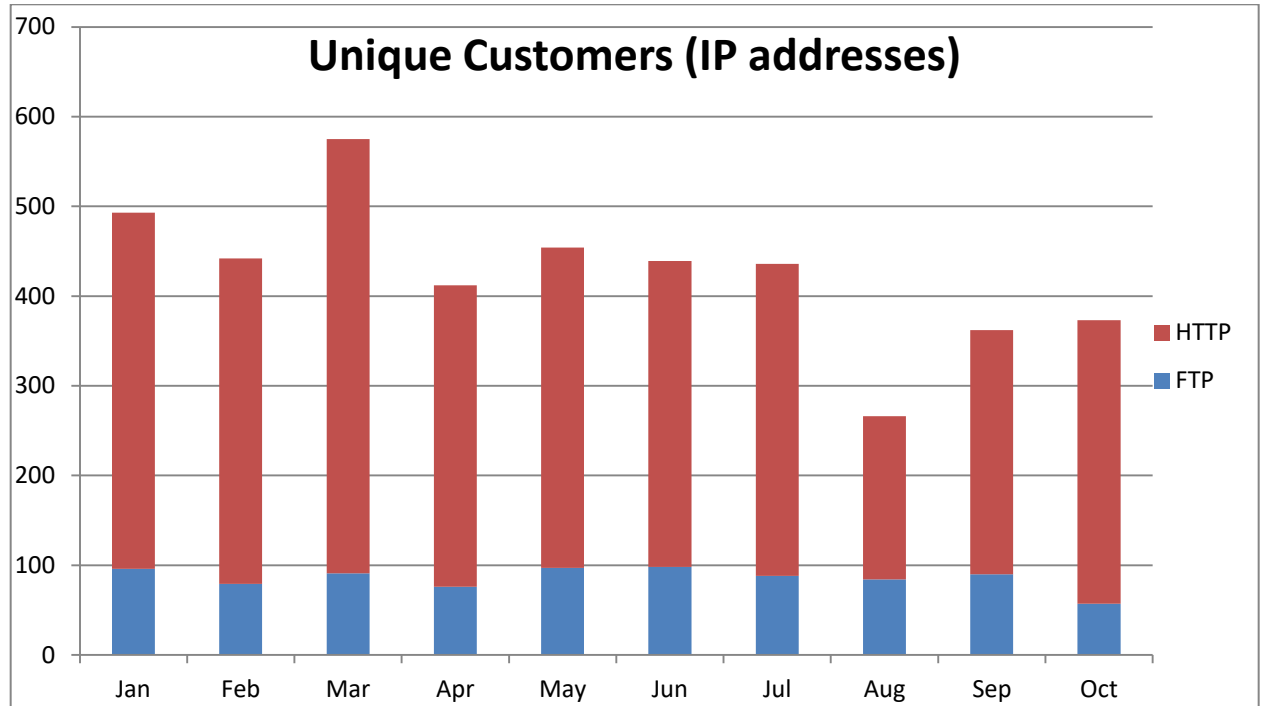
### FTP Statistics

Date	Unique IPs	Hits (1000's)	Gigabytes
Jan 2017	98	1,547	1,848
Feb 2017	79	2,015	1,841
Mar 2017	91	1,891	2,431
Apr 2017	76	2,393	2,197
May 2017	97	2,035	2,857
Jun 2017	98	3,611	2,712
Jul 2017	88	1,449	1,949
Aug 2017	84	1,365	1,928
Sep 2017	90	1,412	2,385
Oct 2017	57	1,392	1,388

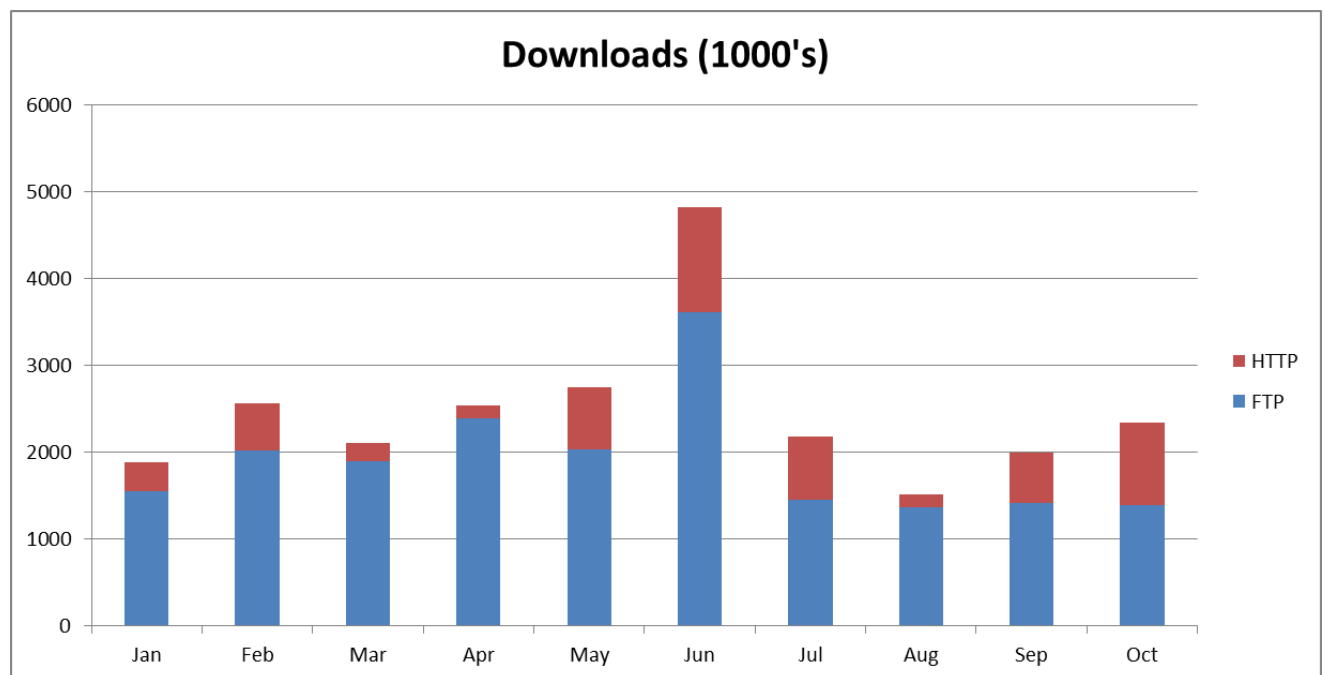
### HTTP Statistics

Date	Unique IPs	Hits (1000's)	Gigabytes
Jan 2017	397	340	1,691
Feb 2017	363	549	578
Mar 2017	484	210	1,567
Apr 2017	336	141	1,007
May 2017	357	715	1,127
Jun 2017	341	1,209	2,172
Jul 2017	348	727	1,594
Aug 2017	182	154	216
Sep 2017	272	579	1,276
Oct 2017	316	955	1,702

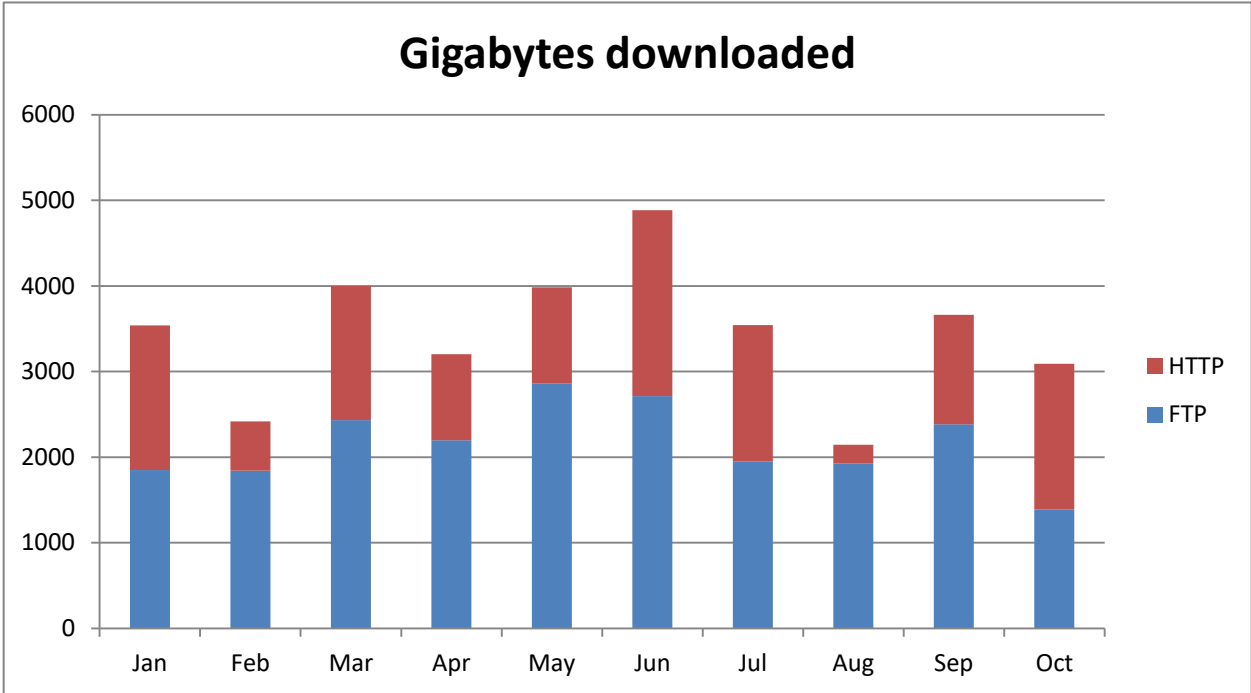
The following chart shows the unique customers downloading Argo data per month.



The following chart shows individual successful downloads in 1000's. One successful download would equate to one Argo file being downloaded, regardless of size.



The following charts shows how many bytes worth of Argo has been downloaded per month.



### Visitors

The following list shows the countries that have downloaded Argo data from the US GDAC.

- Australia (AUS)
- Belgium (BEL)
- Brazil (BRA)
- Canada (CAN)
- Chile (CHL)
- China (CHN)
- Denmark (DNK)
- Fiji (FJI)
- France (FRA)
- Germany (DEU)
- Hong Kong (HKG)
- India (IND)
- Indonesia (IDN)
- Italy (ITA)
- Japan (JPN)
- Korea Republic of (KOR)
- Macau (MAC)
- Malaysia (MYS)
- Mexico (MEX)
- Netherlands (NLD)
- New Zealand (NZL)

Norway (NOR)  
Poland (POL)



Puerto Rico (PRI)

Samoa (WSM) South

Africa (ZAF) Spain

(ESP) Switzerland

(CHE)

Taiwan; Republic of China (ROC) (TWN)

United Kingdom (GBR)

United States (USA)