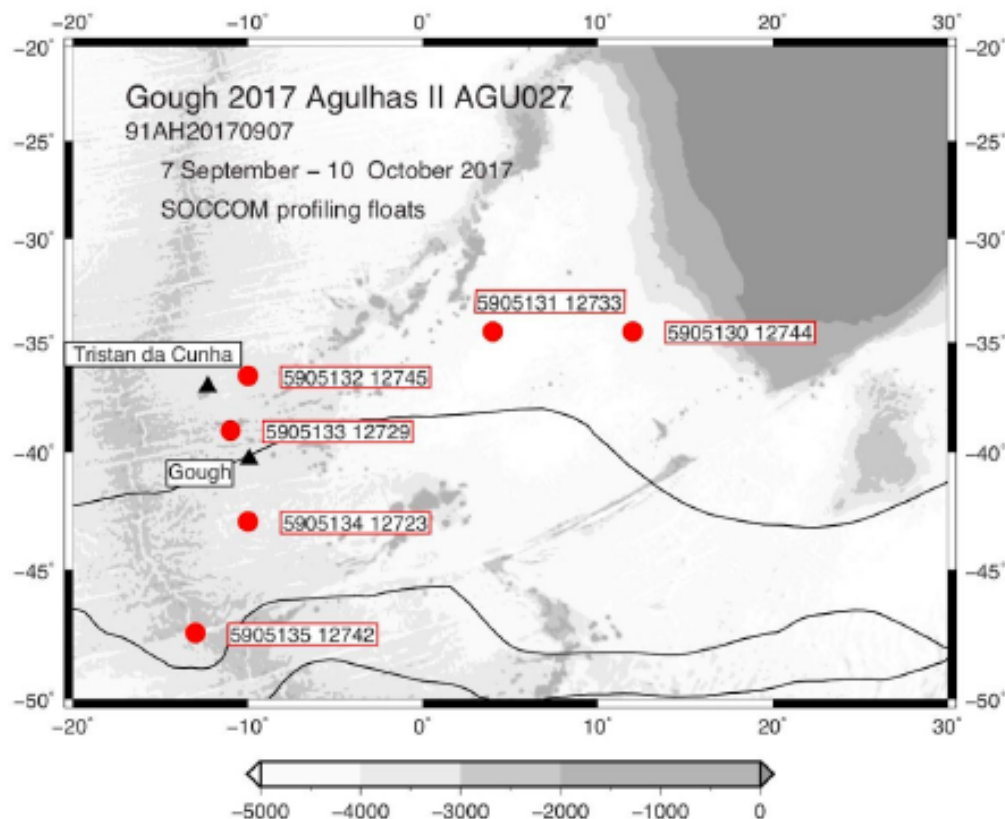


CRUISE REPORT:

(Updated SEP 2021)



Highlights

Cruise Summary Information

Section Designation	Gough Island		
Expedition designation (ExpoCodes)	91AH20170907		
Chief Scientists	Tahlia Henry / U. Cape Town		
Dates	2017 SEP 7 – 2017 OCT 11		
Ship	SA Agulhas II		
Ports of call	Cape Town to Cape Town (Gough Island and Tristan da Cunha)		
Geographic Boundaries	-34.5002		
	-13.0007		11.9988
	-47.4992		
Stations	6		
Floats and drifters deployed	6 SOCCOM Apex floats		
Moorings deployed or recovered	0		

Contact Information:

Tahlia Henry
Email: tahliahenry@gmail.com

SOC COM Technical Report Series



<http://soccom.princeton.edu>

SOC COM Biogeochemical Profiling Float Deployments from SA Agulhas II AGU027

Ship and Expedition ID: SA Agulhas II (Gough Island); #AGU027

Dates: 7 September 2017 – 11 October 2017

Cruise identifier (CCHDO and SOC COM): 91AH20170907

SOC COM Cruise Number: 17

Technical Report 2017-1; updated 5 Aug. 2019

National Science Foundation Polar Programs PLR-1425989 (Princeton University); NASA NNX14AP49G; U.S. Argo Program (NOAA)

Citation: Talley, L. D., M. Miller, T. Henry, K. Johnson, S. Riser, E. Boss, A. Dickson, R. Key, 2017. SOC COM biogeochemical profiling float deployments from SA Agulhas II AGAU027 (Gough Island). SOC COM Tech. Rep. 2017-1.

https://soccom.princeton.edu/sites/default/files/imagesfiles/SOC COM_2017-1_91AH20170907_Gough.pdf

SOCCOM float deployments from SA Agulhas II ('Gough')
12 October 2017

Cruise information:

7 September 2017 – 11 October 2017

Cape Town to Cape Town (Gough Island and Tristan da Cunha)

Chief Scientist: Tahlia Henry (University of Cape Town)

Ship: SA Agulhas II

Captain: Gavin Syndercombe

Cruise identifier: AGU027

SOCCOM and CCHDO cruise identifier (expocode): 91AH20170907

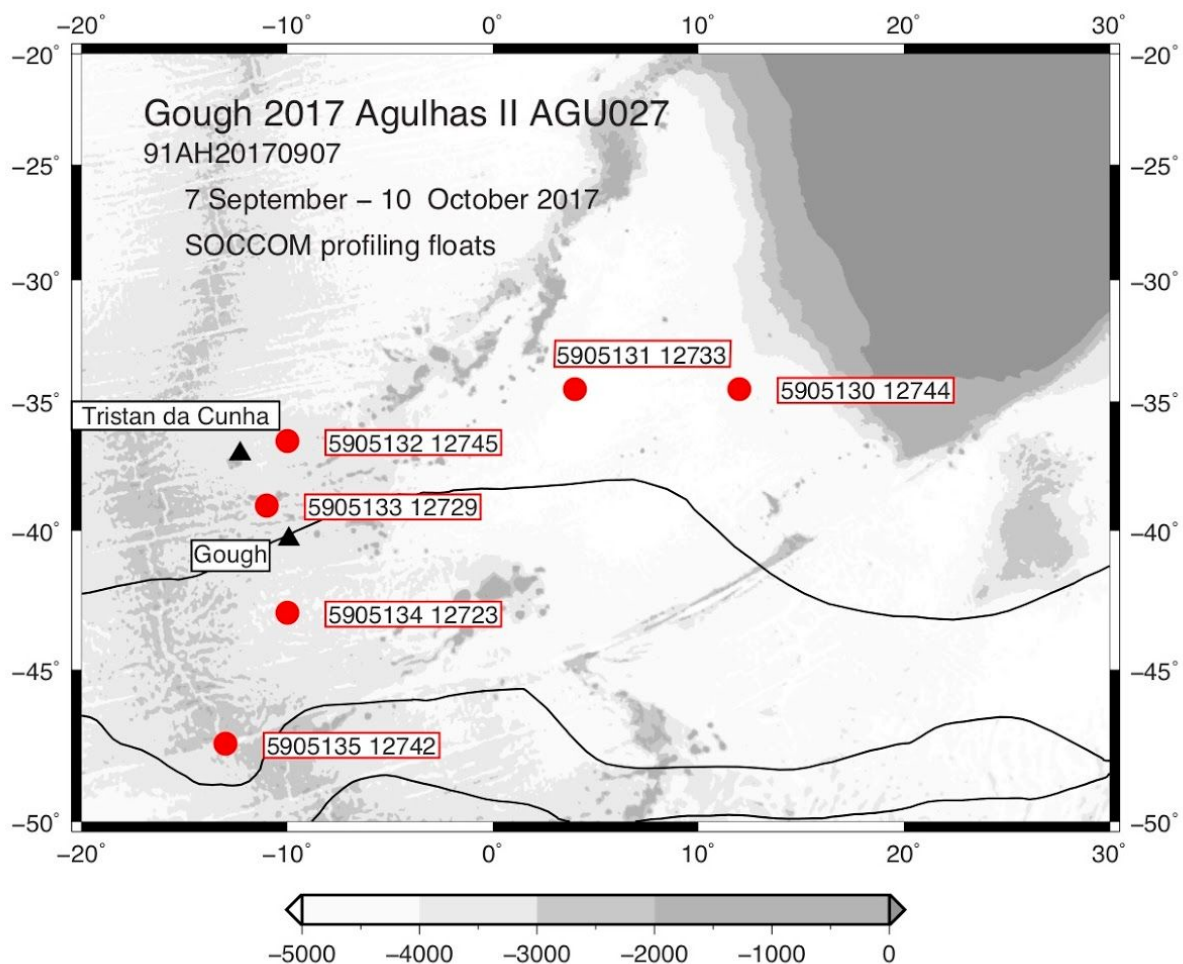


Figure 1. SOCCOM float deployments (red circles) and CTD stations from SA Agulhas II Gough Island relief cruise (7 September 2017 – 11 October 2017). Black triangles are Gough and Tristan da Cunha Islands. Light curves are the standard Orsi et al. (1995) fronts (subtropical, subantarctic, and polar, from north to south).

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13	SOCCOM float first profiles

Table 1: SOCCOM-17 SA Agulhas II Gough Island float deployment details.

SOCCOM Float Deployment Log Sheet: Oct. 11, 2017

Number of SOCCOM floats:	6
Cruise Name or Nickname:	Gough Island
Ship:	SA Agulhas II (South Africa)
Cruise number:	AGU027
Expocode:	91AH20170907
Chief Scientist or Cruise POC:	Tahlia Henry tahliahenry@gmail.com (C.S.) Isabelle Ansorge isabelle.ansorge@uct.ac.za (POC)
Departure Port	Cape Town
Departure Date	Sept. 7, 2017
Final Port	Cape Town
Final Date:	Oct. 11, 2017
SOCCOM responsible person onboard:	Melissa Miller melissa-miller@ucsd.edu
SOCCOM UW Engineering port set-up:	Rick Rupan rupan@uw.edu

	Nominal Location	Float WMO ID	Float UW ID	Sensors *	Sta. #	Deployment Date	Deployment Time	Lat.	Lon.	Deployer
1	34°S, 12°E	5905130	12744	CApex OpFN	1	9/9/17	08:47 GMT	34S 30.102	11E 59.930	Melissa Miller
			Comments: 'Marine Mustang'. Our first deployment went off smoothly. Bosun and crew were champs, it was lovingly lowered slowly into the ocean as we steamed off station.							
2	38°S, 11°W	5905133	12729	CApex OpFN	2	9/16/17	0600 GMT	39 03.179S	11 00.061W	Melissa Miller

			Comments: aka Pixel is away.							
3	43°S, 10.5°W	5905134	12723	CApex OpFN	3	9/18/17	23:27 GMT	43 00.037S	10 00.11 5W	Melissa Miller
			Comments: "Titans" It had a slightly more rough entry than desired. A wave dropped away and it went the last foot or so to the water with a bit of a slap, though at an angle, not straight on. Then the top came down away from the ship, whereas usually the top comes down towards it. I would say it was hardly worth noting anything irregular about the deployment, but I'm noting it anyway. Fingers crossed for comms and a nice profile.							
4	47.5°S, 13°W	5905135	12742	CApex OpFN	4	9/20/17	08:10 GMT	47 29.986S	13 00.19 7W	Melissa Miller
			Comments: 'Zora'. Rough seas this morning but the deployment went smoothly. Here's a snap of the moment of entry.							
5	34°S, 10°W	5905132	12745	CApex OpFN	5	10/5/17	22:35 GMT	36 34.310S	10 00.16 8W	Melissa Miller
			Comments: 'Freddy Cougar' You'll notice we're farther south than originally planned. The captain cut off the corner, so the cruise track doesn't take us to 34S until we're farther east. Calm weather, smooth deployment. Following seas, so we deployed the float and then turned to head on our way. The bridge assures me it was a wide turn with no risk of hitting the float.							
6	34°S, 4°E	5905131	12733	CApex OpFN	6	10/8/17	15:32 GMT	34 30.065 S	4 00.08 1 E	Melissa Miller
			Comments: 'Olympians' was deployed. The base of the box hit the water a bit harder than I'd like, but only just.							

I = ice enabled

Ice > 1 yr: stay out of ice for first yr

O = oxygen sensor

N = nitrate sensor

F = FLbb

p = pH

A = Apex

CApex = carbon fiber hull Apex

Nav = Navis (Seabird)

Table 2. SOCCOM float sensor information (D. Swift, UW)

~~~~~

IsusInventory.mbari, v1.55 2017/08/17 18:27:25 swift

~~~~~

For Soccom project:

Wrcld Apfld Sbeld Isusld Optodeld Flbbld DeploymentOpportunity

#-----

8047 12744 9268 780 2732 4429 (GoughIslandAghulas) PtvChk 48"CfApf9iSbe41cp

8048 12733 9280 784 2727 4430 (GoughIslandAghulas) PtvChk 48"CfApf9iSbe41cp

8050 12745 9279 783 2729 4432 (GoughIslandAghulas) PtvChk 48"CfApf9iSbe41cp

8051 12729 9269 781 2725 4433 (GoughIslandAghulas) PtvChk 48"CfApf9iSbe41cp

8052 12723 9281 785 2653 4434 (GoughIslandAghulas) PtvChk 48"CfApf9iSbe41cp

8053 12742 9282 786 2677 4435 (GoughIslandAghulas) PtvChk 48"CfApf9iSbe41cp

Table 3. SOCCOM shipboard measurements (L. Talley, SIO)

Measure- ment	Institution	Contact name & Email	Onboard or ship samples	Analysis Lab	Date Rec'd	Date Archive d	Archive location
SOCCOM REQUIRED CALIBRATION OBSERVATIONS							
CTD profile	UCT	Tahlia Henry tahliahenry@gmail.com	onboard	UCT	Oct. 12, 2017	June 2018	https://chdo.ucsd.edu/cruise/91AH20170907
Optical profile	SOCCOM and UCT	Boss (BB2F #2) emmanuel.boss@umaine.edu	onboard	SOCCOM and UCT	Oct. 12, 2017	June 2018	https://chdo.ucsd.edu/cruise/91AH20170907
Rosette salts	UCT	Tahlia Henry tahliahenry@gmail.com	onboard	UCT	Oct. 10, 2017	1/31/2 018	https://chdo.ucsd.edu/cruise/91AH20170907
Rosette O ₂	SOCCOM SIO ODF	Melissa Miller (SIO ODF) Melissa-miller@ucsd.edu	onboard	SOCCOM SIO ODF	Oct. 10, 2017	1/31/2 018	https://chdo.ucsd.edu/cruise/91AH20170907
Nutrients	SOCCOM SIO ODF	Melissa Miller (SIO ODF) Melissa-miller@ucsd.edu	onboard	SOCCOM SIO ODF	Oct. 10, 2017	1/31/2 018	https://chdo.ucsd.edu/cruise/91AH20170907
pH	SOCCOM	Andrew Dickson adickson@ucsd.edu	Ship to SIO	SIO Dickson	Sept. 11, 2018	12/10/ 2018	https://chdo.ucsd.edu/cruise/91AH20170907
Talk	SOCCOM	Andrew Dickson adickson@ucsd.edu	Ship to SIO	SIO Dickson	Sept. 11, 2018	12/10/ 2018	https://chdo.ucsd.edu/cruise/91AH20170907

HPLC	SOCCOM SIO	Susan Becker sbecker@ucsd.edu	Ship to ODF	NASA Goddard	March 5, 2018 Crystal Thomas	July 20, 2018 Joel Scott NASA/GSFC	NASA SeaBASS https://seabass.gsfc.nasa.gov/archive/MAINE/boss/SOCCOM/Gough_2017/archive/
POC	SOCCOM SIO	Susan Becker sbecker@ucsd.edu	Ship to ODF	UCSB	Nov. 7, 2017 George Paradis	Jan. 31, 2018 Joel Scott NASA/GSFC	NASA SeaBASS https://seabass.gsfc.nasa.gov/archive/MAINE/boss/SOCCOM/Gough_2017/archive/
OTHER USEFUL OBSERVATIONS FOR SOCCOM PROGRAM							
TSG underway	UCT	Tahlia Henry tahliahenry@gmail.com	onboard	UCT	Oct. 12, 2017	Feb. 27, 2018	https://www.nodc.noaa.gov/archive/arc0117/0170849/1.1/data/0-data/
pCO2 underway	UCT	Tahlia Henry tahliahenry@gmail.com Dr. Pedro Monteiro pmonteir@csir.co.za	onboard	UCT		Aug. 2019	https://www.nodc.noaa.gov/oceans/VOS/Program/Agulhas.html

Table 4. Shipboard personnel associated with SOCCOM floats and stations

Gavin Syndercombe	Captain	SA Agulhas II
Craig DeBeer	Chief Mate	SA Agulhas II
Lionel Alexander	Bosun	SA Agulhas II
Tafique Lotters	Chippie (2 nd to Bosun)	SA Agulhas II
Tahlia Henry	Chief Scientist, CTD, salts	Student, U. Cape Town
Melissa Miller	Marine technician, nutrients, oxygen, floats	Shipboard Technical Support - Oceanographic Data Facility SIO/UCSD

Caitlin Kelly	Student	U. Cape Town
Mark Weston	Student	U. Cape Town
Lelethu Nohay	Technician	Council for Scientific and Industrial Research (CSIR)

SOCCOM Shipboard measurements ‘metadata’ (R. Key, Princeton U.)

The metadata ‘readme’ is the information that appears in the header of each shipboard measurement data file.

http://soccompu.princeton.edu/DeploymentCruises/Atlantic/Agulhas_II/2017/91AH20170907/General_Documentation/README.91AH20170907.txt

Table 5. Float and shipboard data servers

Server	url	Purpose
Floatviz (MBARI)	http://www.mbari.org/chemsens/or/floatviz.htm	Float profile data including all sensors, quality controlled data
U. Washington Argo float server	http://runt.ocean.washington.edu	U.W. float summaries, diagnostics, engineering data, profiles
U.S. GODAE Argo GDAC	http://www.usgodae.org/argo/argo.html	Real-time and delayed-mode Argo data server (U.S.), high resolution T/S
Coriolis (Ifremer) Argo portal	http://soccom.ucsd.edu/floats/SOCCOM_data_ref.html	Float metadata and graphics
JCOMMOPS Argo data server	http://argo.jcommops.org/ (links to US GODAE for data access)	Real-time and delayed-mode Argo data server (international), high resolution T/S
CCHDO (CLIVAR and Carbon Hydrographic Data Office)	http://cchdo.ucsd.edu/	CTD and discrete rosette sample data (calibration), to be listed with A10 cruises
NASA Seabass	http://seabass.gsfc.nasa.gov	HPLC and POC discrete samples; bio-optical profiles

Narrative.

Organization.

SOCCOM floats were deployed from the annual relief cruise of the SA Agulhas II to Tristan da Cunha and Gough Islands. SOCCOM float deployments and supporting shipboard measurements were the primary scientific use of the vessel during this cruise. The SOCCOM work was organized jointly with the University of Cape Town’s Dr. Isabelle Ansorge, who arranged for SOCCOM to deploy from the ship and importantly provided the CTD/rosette and

autosol support, including the group of experienced sea-going students who managed the shipboard data collection and CTD, headed by Tahlia Henry, Chief Scientist for the expedition. One SOCCOM scientist, Melissa Miller from the Oceanographic Data Facility at SIO, participated in the cruise.

Float deployment locations.

6 nominal float locations were selected prior to the cruise (Map on p. 2).

The track from Cape Town to Tristan da Cunha lies roughly along the repeated SAMOC and WHP/GO-SHIP section A10. The track southward from Tristan lies roughly along the mid-Atlantic Ridge, and WHP/GO-SHIP section A14. The A10 and A14 sections were used for guidance for float deployment locations (Koltermann et al., 2011).

Three floats were designated for deployment along the transit to Tristan da Cunha, and three floats along the meridional section southward to Gough Island and from there south to the Subantarctic Front. The Subtropical Front lies between Tristan da Cunha and Gough Islands. We requested underway thermosalinograph measurements to detect the location of the front during the cruise.

Oceanographic regimes: Benguela Current, Cape Basin, S. Atlantic subtropical gyre, S. Atlantic Subantarctic Zone, S. Atlantic Polar Frontal Zone.

12744 (WMO 5905130): Benguela Current region in the Cape Basin, expected to include much eddy activity

12733 (WMO 5905131): Cape Basin in a quiet region of the subtropical gyre

12745 (WMO 5905132): West of the Walvis Ridge in the southernmost Angola Basin, close to Tristan da Cunha.

12729 (WMO 5905133): Between Tristan and Gough Islands, above the underlying Ridge, north of the Subtropical Front.

12723 (WMO 5905134): Subantarctic Zone south of Gough Island and north of the Subantarctic Front. Over rough topography on eastern Flank of Mid-Atlantic Ridge, west of the discovery seamounts

12742 (WMO 5905135): Over Mid-Atlantic Ridge close to Subantarctic Front. Water properties from the beginning indicate that it is in the Polar Frontal Zone, and it is being advected eastward by the SAF.

Pre-cruise preparations.

Rick Rupan (U. Washington Argo lab) tested and prepped the 6 SOCCOM floats in Cape Town before the cruise and loaded them on the ship. All floats tested fine.

Floats.

All floats were ballasted for subtropical waters. All have carbon-fiber hulls, which allows them to reach 2000 m, unlike standard BGC-Apex floats with subtropical ballasting.

All of this cruise's floats (all Apex) were encased in cardboard boxes. With the ship moving at 1-2 knots, the bosun and his team looped a rope through the box's handle and lowered it gently over the stern. This was the first SOCCOM cruise with all floats in boxes.

Float deployment initial issues:

All floats were deployed without incident close to the chosen locations and within the range of lats/longs that were provided.

Float UW ID 12729 (WMO ID 5905133) had a faulty pH sensor on its first profile, and the failure mode was such that it cannot recover. Therefore the pH/Alk samples that were collected at this station will not be run, after float panel discussion determined that there would be little value in a single profile in this region.

Float UW 12745 (WMO ID 5905132) has a communications problem between the float controller and the pH sensor. The pH values that were returned are correct.

Shipboard measurements:**Methods:**

CTD and FLBB: The CTD, winch, and software were operated by Tahlia Henry and Mark Weston, both students at the University of Cape Town (UCT).

The Wetlabs FLBB sensor, S/N 4399, was provided by the U. Maine (Emmanuel Boss) through SIO Oceanographic Data Facility (S. Becker and M. Miller).

The FLBB was added to the rosette and configured by Marcel Van den Berg (Department of Environmental Affairs (DEA)) during the load period. The sensor was relocated on the rosette after station 1 with direction from Dr. Emmanuel Boss, in order to get a longer unimpeded light path. A dark test of all optical sensors was performed by covering the light path and lowering the CTD to 7 meters for 5 minutes. Since there were no additional CTD casts during this cruise, this was done while the ship was near Tristan da Cunha Island.

Nutrients (nitrate, nitrite, phosphate, and silicate) were measured using a SEAL Analytical continuous-flow Auto-Analyzer (AA3) operated in the chemistry lab by Melissa Miller. Two sets of standards and one cadmium column were used over the course of the cruise. Primary and

secondary standards, as well as reagents, were made up in deionized (DI) water. The ship's system worked perfectly during the cruise. Working standards were made up in low nutrient seawater (LNSW), brought from the US. Surface waters along the cruise route were too high in nutrient concentration to use for this purpose. Reference materials (RMNS) from KANSO were analyzed with samples from stations 2-6.

30ml of water was collected for each sample. Nutrients were sampled by Melissa Miller or Mark Weston. The AA3 and AACE software required troubleshooting throughout the cruise.

Dissolved oxygen was measured using an automated titrator designed at Scripps Institution of Oceanography and operated in the chemistry lab by Melissa Miller. Pre-made standards were run at regular intervals throughout the cruise, including right before analysis of samples at all stations. One batch of reagents was used over the course of the cruise.

Dissolved oxygens were sampled into 125ml glass flasks by Melissa Miller, Dr. Alan Boyd (DEA), or Caitlin Kelly (student, UCT). As this was the first sample taken from each bottle, leak tests were performed prior to collection of the sample.

Salinity samples were measured using a Guidline Portasal in the underway lab. On station 1, only 4 samples were taken. After discussion with Dr. Lynne Talley, it was decided to sample all bottles (24) on future casts. 250ml of water was collected and all samples were run by Tahlia Henry or Mark Weston after they had adjusted to lab temperature over 24 hours. OSIL IAPSO standard seawater batch P158 was used with each run. Salinities were sampled by Mark Weston or Caitlin Kelly.

Optical (HPLC/POC) samples were taken from Niskin bottles at the surface and chlorophyll maximum. 1-2L of water was sampled, and filtered immediately in the chemistry lab by Melissa Miller. Filters were then stored in the -80C freezer and shipped to SIO after the cruise in a liquid-nitrogen charged dry shipper. All HPLC and POC samples were taken by Melissa Miller.

pH/alkalinity samples will be shipped to the US for analysis by Dr. Andrew Dickson's lab at SIO. 500ml of water was collected, and poisoned with mercuric chloride before being sealed. Melissa Miller took all pH/alkalinity samples. The pH sensor on float 12729 (station 2) is not working, and the one on float 12745 (station 5) is malfunctioning. Samples from station 2 were dumped (will not be analyzed), by decision of the SOCCOM float panel.

Underway thermosalinograph (TSG). Data were collected from the ship's underway system and have been archived at NODC/NCEI (see [Table 3](#)).

Underway pCO₂. Data were collected by University of Cape Town and are available through SOCAT at NODC/NCEI (see [Table 3](#)).

Brief discussion and conclusion:

Tahlia Henry provided processed data from the CTD and other sensors mounted to the rosette. This will be further disseminated by the SOCCOM team, and combined with the various

analyses taken from bottle samples. This will then be used to validate the sensor calibrations through comparison with the initial float profile. Sensor calibrations are carried out using external methods, independent of the shipboard measurements (Johnson et al., 2017).

Issues/recommendations: All six floats were deployed successfully. Many thanks to Captain Gavin Syndercombe and Bosun Lionel Alexander and his team for the smooth operations. The ship itself is a great platform for science. There is sufficient lab space and facilities such as refrigerators, freezers, water, and power. Comforts such as speedy internet and cafe kiosks were much appreciated.

Operations were done in sea states ranging from calm to stormy, and all were performed safely. The order of stations changed due to weather and time concerns, but everything got done.

Chief Scientist Tahlia Henry was a perfect leader for the science on this cruise. She is known and respected by the crew. She answered endless questions before, during, and after sailing, and facilitated the sharing of data. The other members of the science party were also extremely helpful.

From start to finish, SIO's participation in this cruise was well accommodated by Dr. Isabelle Ansorge (UCT) and Tahlia Henry. Dr. Sarah Fawcett facilitated procurement of mercuric chloride, and loaned a vacuum pump and power transformer at the last minute. Acids and liquid nitrogen were procured at the UCT chemistry storeroom.

The three day load period was sufficient for setting up the lab and preparing the floats. However, there was no power in the chemistry lab for the first 1.5 days, which hindered the preparation of reagents and testing of equipment. Due to the ship's departure delay of one day, everything was ready to go before station 1.

We look forward to working on *Agulhas II* again during the Marion 2018 cruise. Three pallet boxes of gear have been put in storage in the East Pier warehouse for use on that cruise. (n.b. Because of a shortage of floats for the season, the planned deployments on the Marion cruise did not take place, and the gear was returned to SIO at a later time.)

References

- Johnson, K. S., J. N. Plant, L. J. Coletti, H. W. Jannasch, C. M. Sakamoto, S. C. Riser, D. D. Swift, N. L. Williams, E. Boss, N. Haentjens, L. D. Talley, and J. L. Sarmiento, 2017. Biogeochemical sensor performance in the SOCCOM profiling float array. *J. Geophys. Res. Oceans*, **122**, 6416-6436. doi:10.1002/2017JC012838.
- Koltermann, K.P., V.V. Gouretski and K. Jancke. Hydrographic Atlas of the World Ocean Circulation Experiment (WOCE). Volume 3: Atlantic Ocean (eds. M. Sparrow, P. Chapman and J. Gould). International WOCE Project Office, Southampton, UK, ISBN 090417557X. 2011. http://whp-atlas.ucsd.edu/atlantic_index.html

Outreach:

SOCCOM representative Melissa Miller, from SIO Shipboard Technical Support, maintained a blog throughout the cruise, including photos of some of the float deployments.

Blog address: <http://socomatsea.blogspot.com/> (see entries for 2017-September and October)

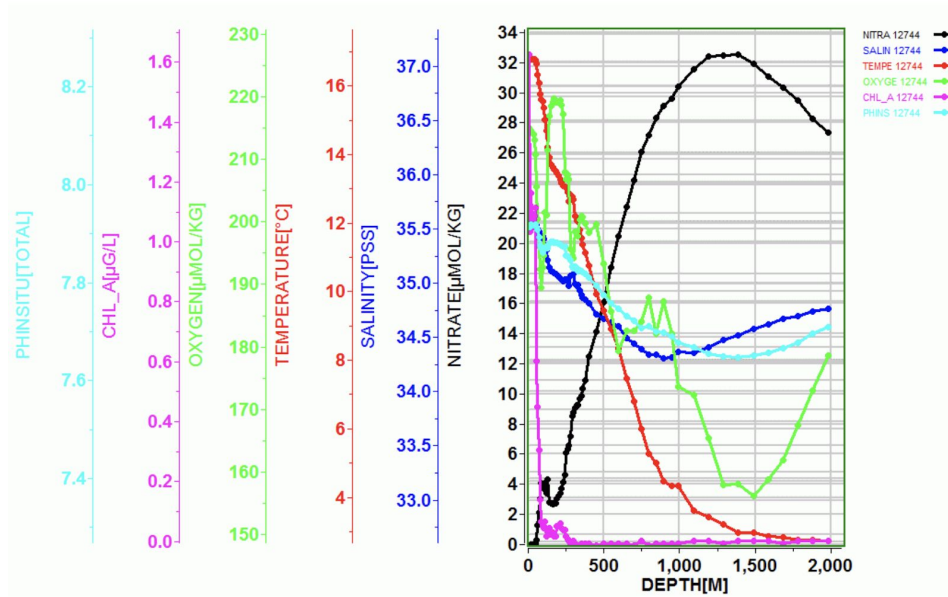
All floats were 'adopted' by schools:

Float #	Float Name	Classes assigned
1	<i>Freddy Cougar</i>	Melvin Kreps Middle School, East Windsor NJ
2	<i>Pixel</i>	Stanford Online High School, Palo Alto CA
3	<i>Marine Mustang</i>	J.C. Parks Elementary, Indian Head MD
4	<i>Olympians</i>	Desert Ridge Middle School Albuquerque NM
5	<i>Titans</i>	Desert Ridge Middle School Albuquerque NM
6	<i>Zora</i>	Homeschool, Santa Cruz CA

SOCCOM Float First Profiles

12744 Gough Isl. Agulhas II 9/10/17

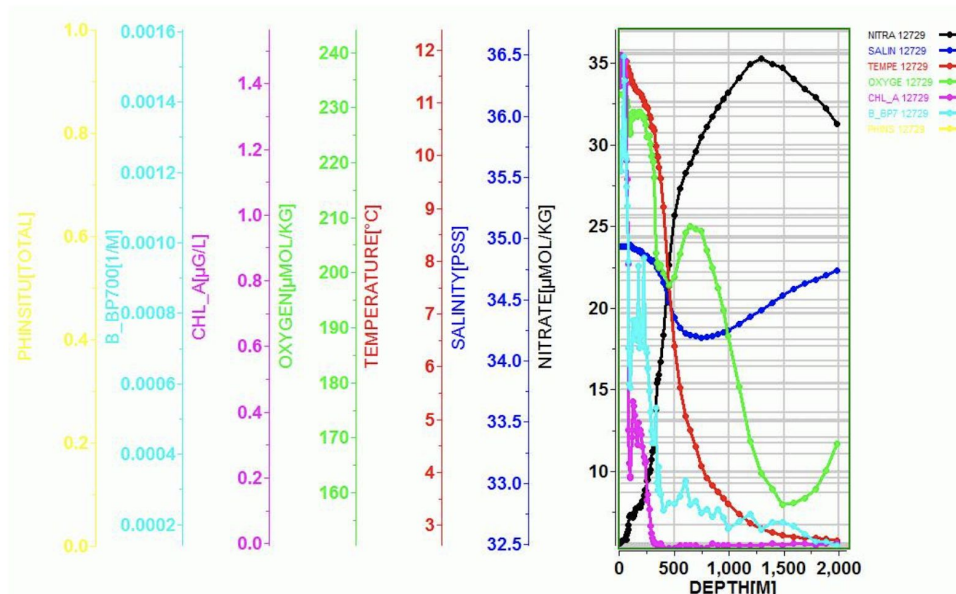
34 30.102S 11 59.930E



12729 Gough Isl. Agulhas II 9/16/17

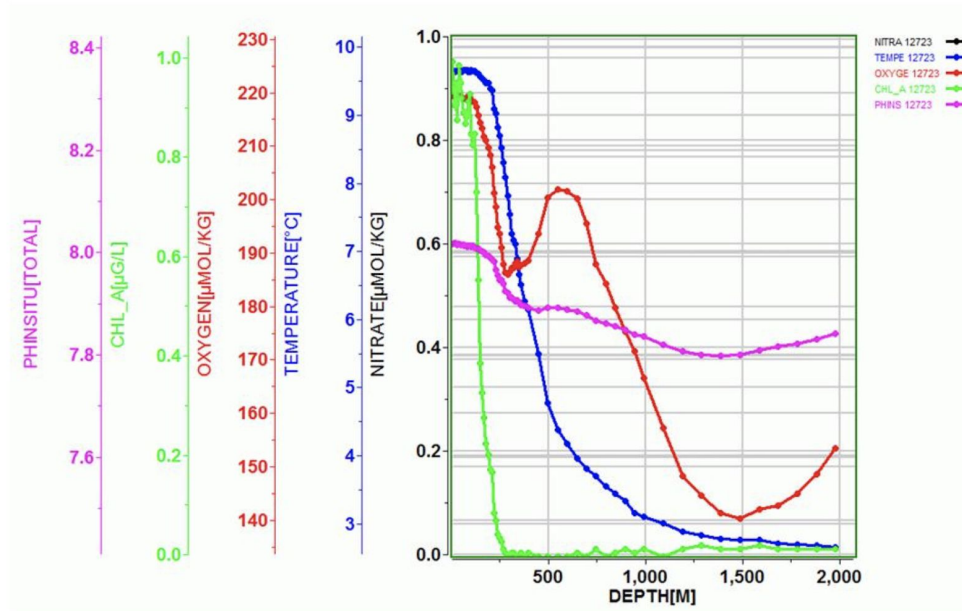
39 03.179S 11 00.061W

Bad pH



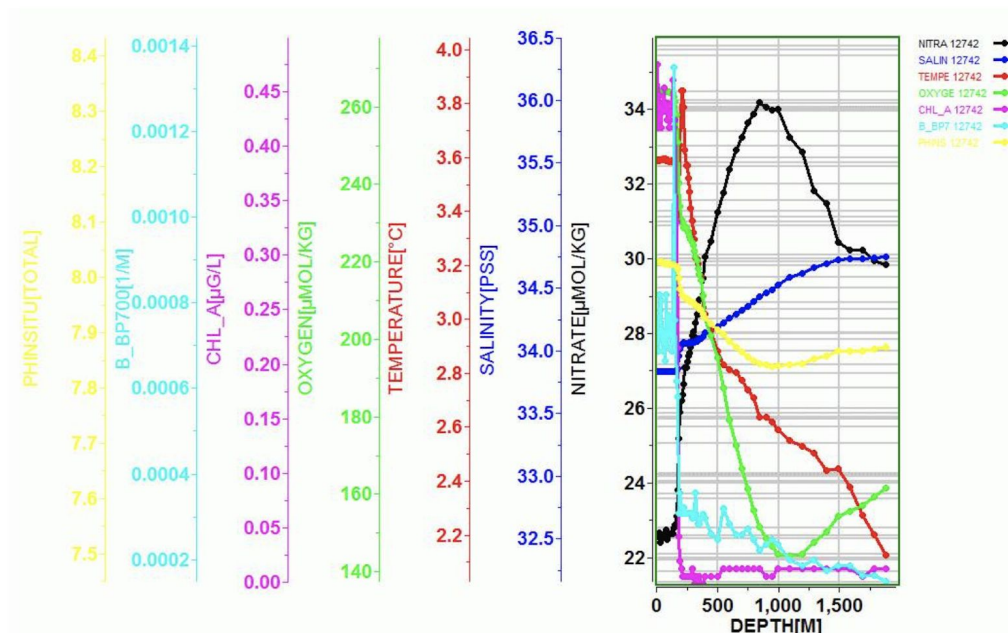
12723 Gough Isl. Agulhas II 9/18/17

43 00.037S 10 00.115W



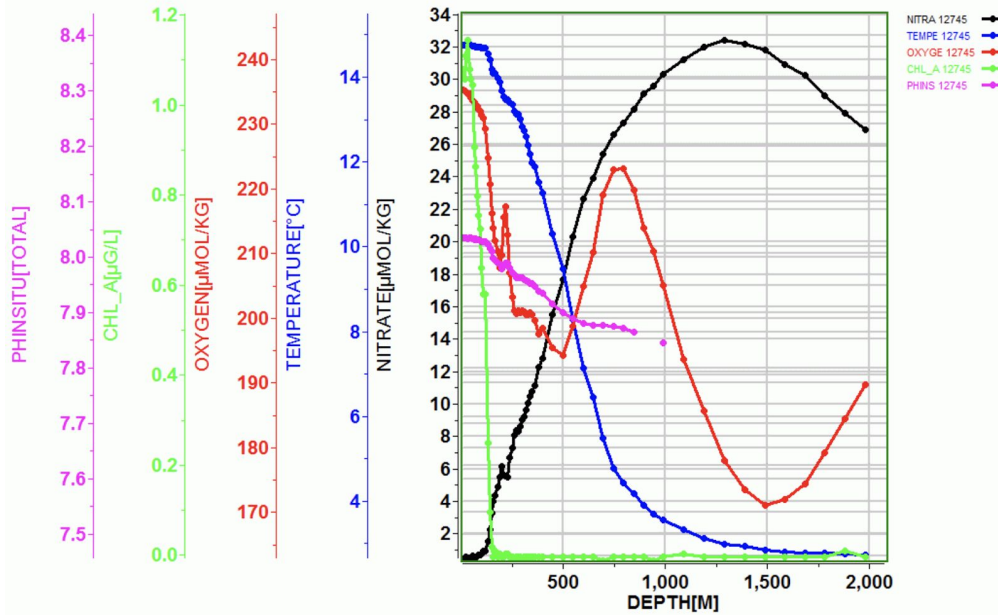
12742 Gough Isl. Agulhas II 9/21/17

47 29.986S 13 00.197W (farthest south for Gough cruise)



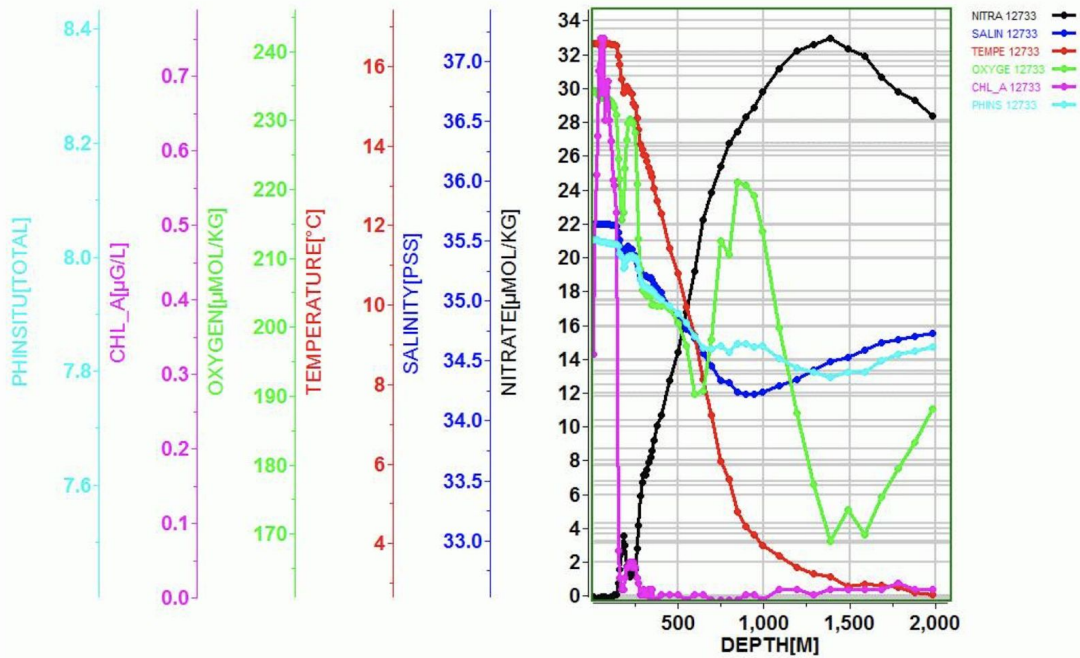
12745 Gough Isl. Agulhas II 10/5/17

36 34.310S 10 00.168W



12733 Gough Isl. Agulhas II 10/9/17

34 30.065 S 4 00.081 E



CCHDO Data History

- **File Online Andrew Barna**

[91AH20170907_bottle.nc \(download\)](#) #ed942

Date: 2021-08-26

Current Status: dataset

Notes

CCHDO-1.0 CF netCDF files converted from bottle exchange file

- **File Merge Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #c2f0b

Date: 2020-05-05

Current Status: merged

- **File Merge Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #7bb00

Date: 2020-05-05

Current Status: merged

- **File Merge Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #28763

Date: 2020-05-05

Current Status: merged

- **File Merge Carolina Berys**

[91AH20170907.exc.numbers \(download\)](#) #67d86

Date: 2020-05-05

Current Status: merged

- **File Merge Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #29e88

Date: 2020-05-05

Current Status: merged

- **Bottle data moved to dataset Carolina Berys**

Date: 2020-05-05

Data Type: Bottle

Action: Website Update

Note:

Agulhas II 2017 91AH20170907 processing - BTL

2020-05-05

C Berys

Submission

id	date	name	file name
13811	2018-01-31	Robert Key	91AH20170907.exc.csv
14022	2018-05-14	Robert Key	91AH20170907.exc.csv
14246	2018-12-07	Robert Key	91AH20170907.exc.csv
14250	2018-12-10	Robert Key	91AH20170907.exc.csv
14614	2019-08-06	Lynne D Talley	91AH20170907.exc.numbers
14620	2019-08-13	Robert Key	91AH20170907.exc.csv

Changes

* added SAMPNO column, identical to BTLNBR

Conversion

file	converted from	software
91AH20170907_nc_hyd.zip	91AH20170907_hy1.csv	hydro 0.8.2-61-g3353cfe

Both files opened in ODV with no apparent problems.

Updated Files Manifest

file	stamp
91AH20170907_nc_hyd.zip	20200504CCHSIOCBG
91AH20170907_hy1.csv	20200504CCHSIOCBG

- **File Online Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #29e88

Date: 2019-08-14

Current Status: merged

- **File Submission Robert Key**

[91AH20170907.exc.csv \(download\)](#) #29e88

Date: 2019-08-13

Current Status: merged

Notes

This file includes incorporates the changes that Lynne recently made to the header. I've also added new header items, most importantly, calibration equations for the CTD data. The file was reprinted, so the date is also reset.

Once Pedro submits his underway pCO2 data to Alex we will need to add that link.

- **File Online Carolina Berys**

[SOCCOM_2017-1_91AH20170907_Gough.pdf \(download\)](#) #ac90b

Date: 2019-08-06

Current Status: unprocessed

- **File Online Carolina Berys**

[91AH20170907.exc.numbers \(download\)](#) #67d86

Date: 2019-08-06

Current Status: merged

- **File Submission Lynne D Talley**

[SOCCOM_2017-1_91AH20170907_Gough.pdf \(download\)](#) #ac90b

Date: 2019-08-06

Current Status: unprocessed

Notes

Cruise report (L. Talley), with correction, replacing version uploaded Aug. 5.

- **File Submission Lynne D Talley**

[91AH20170907.exc.numbers \(download\)](#) #67d86

Date: 2019-08-06

Current Status: merged

Notes

Data identical to Bob Key submission 12/10/2018; updated metadata (L. Talley)

- **File Online Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #28763

Date: 2018-12-11

Current Status: merged

- **File Submission Robert Key**

[91AH20170907.exc.csv \(download\)](#) #28763

Date: 2018-12-10

Current Status: merged

Notes

Added pH and alk with QC

Replaced CTDOXY and CTDSAL with final calibrated version

Edited header

- **File Online Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #7bb00

Date: 2018-06-01

Current Status: merged

- **File Submission Robert Key**

[91AH20170907.exc.csv \(download\)](#) #7bb00

Date: 2018-05-14

Current Status: merged

Notes

Updated bottle file that now includes TIME and calibrated CTDOXY values

- **File Online Carolina Berys**

[91AH20170907.exc.csv \(download\)](#) #c2f0b

Date: 2018-01-31

Current Status: merged

- **File Submission Robert Key**

[91AH20170907.exc.csv \(download\)](#) #c2f0b

Date: 2018-01-31

Current Status: merged

Notes

New SOCCOM cruise. Updates will be coming.
The POC data are already posted at SeaBASS at the following direct link
https://seabass.gsfc.nasa.gov/archive/MAINE/boss/SOCCOM/Gough_2017/archive/
though not activated yet.
Common alias for this one is "Gough Island"
Alex will provide link to underway once he has posted
CTD data expected

- **File Online CCHDO System**

[91AH20170907_hy1.csv \(download\)](#) #d072a

Date: 2015-04-23

Current Status: dataset

Notes

Files migrated to new CCHDO backend, there is not enough information to know where this file should go in the timeline.

- **File Online CCHDO System**

[91AH20170907_nc_hyd.zip \(download\)](#) #2203d

Date: 2015-04-23

Current Status: dataset

Notes

Files migrated to new CCHDO backend, there is not enough information to know where this file should go in the timeline.