

Antarctica

Steve Colwell

British Antarctic Survey

Overview

- Current and previous locations where meteorological data has been collected.
- The archiving and monitoring of Antarctic data.
- Current forecasting products that are available for Antarctica.



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat
Image U.S. Geological Survey
Image PGC/NASA



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat
Image U.S. Geological Survey
Image PGC/NASA

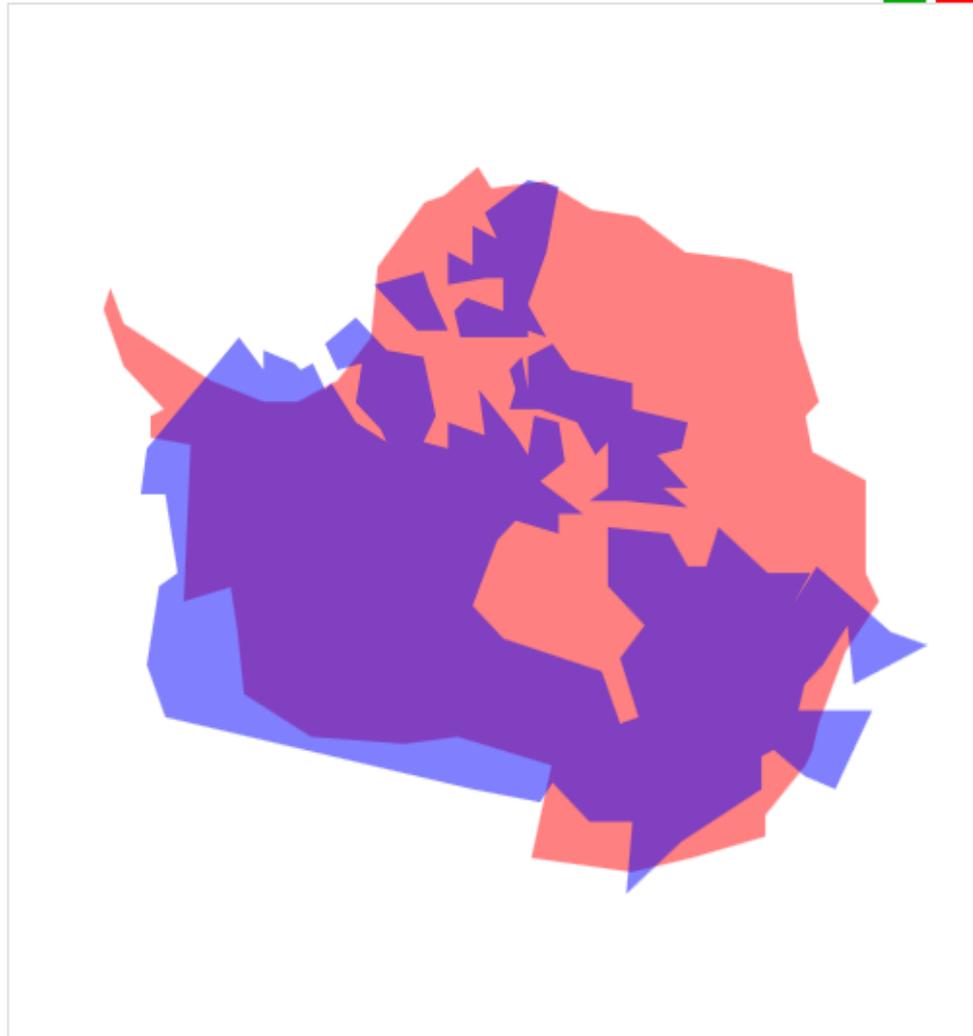
vs

Antarctica (14,000,000 km²) is **1.38** times as big as Europe (10,180,000 km²).



■ VS ■

[Antarctica](#) (14,000,000 km²) is **1.4** times as big as [Canada](#) (9,984,670 km²).



AntON

- AntON is the Antarctic Observing Network
 - It is a list of the staffed and automatic weather stations that are currently in operation in Antarctica.
 - It is updated on a regular basis when new details about stations are received like a new AWS installations, removals or failures.
 - A subset of AntON makes up the Antarctic GSN.
- The British Antarctic Survey carries out the GCOS monitoring for Antarctica and is also a DCPC for Antarctica.



**Scientific
 Committee
 on
 Antarctic
 Research**



Web Page for SCAR Expert Group on Operational Meteorology in the Antarctic & WMO EC-PHORS Antarctic Task Team

The SCAR Expert Group on Operational Meteorology in the Antarctic is a sub group of the SCAR Standing Scientific Group on Physical Sciences (SSG/PS). The Chairman of the Expert Group is Steve Colwell (S.Colwell@bas.ac.uk). If you would like to join the Group please contact him. The Antarctic Task Team is a sub group of the WMO Executive Council team on Polar and High Mountain Observations, Research and Services. The Chair of the ATT is Steve Colwell. Membership is by invitation. Jon Shanklin (J.Shanklin@bas.ac.uk), former chair of the Group and the ATT, currently maintains these pages.

Latest news:

1. 2015 November 2 - Stations 89079 (Criosfera 1) and 89776 (Bharati) added to the AntON listing. SYNOPSIS from these stations have been available for some time.
2. 2015 August 3 - SYNOPSIS from 89536 and 89558 available on the GTS since July 9
3. 2015 May 1 - During 2014/15 at least 82 ships visited Antarctic waters. Only 23 reported meteorological observations.
4. 2015 March 1 - UoW AWS ids for stations transmitting in MOBIL code revised

General

Old News	Members of SCAR EG-OMA and WMO ATT (Updated 2014 December 1)
Details of how to register for the .aq (Antarctic) domain.	Antarctic Station details (Updated 2015 November - changes are highlighted)
WMO AntON listing (Updated 2015 November 2)	

Monitoring

Monitoring

▶ UK Met Office global monitoring	▶
▶ ECMWF global monitoring	▶ NCDC data list
▶ AMPS usage stats (Pressure; site also gives temperature, humidity & wind)	▶
▶ Operational GSN stations with missing CLIMAT messages in the last 12 months (2014 October to 2015 September, updated 2015 October) are: 68906 (July), 89004 (December), 89272 (May), 89573 (August), 89625 (January, February), 89662 (November, February), 89828 (May, June, July, August), 89872 (October, November, December, January) and 89879 (June, July, August). Non or partially operational GSN stations are: 68992, 89327 and 89329. Please check our GCOS AntON CLIMAT monitoring results if your station is listed here and resend the data for the missing month(s). See the latest CLIMATs to check if your report has been received at BAS. See CLIMAT data for Antarctic AWS for all the University of Wisconsin AWS.	▶ The first seven stations to submit CLIMAT reports for October were McMurdo, Neumayer, Bellingshausen, Novolazarevskaya, Progress, Mirnyj and Vostok. ▶ WMO no longer require distribution of the CLIMAT TEMP message and monitoring of these has ceased.
▶ BAS GTS monitoring	▶
▶ BAS GCOS monitoring results for SYNOP and TEMP messages in 2015 from the Antarctic and Oceanic Islands (AntON) (Updated 2015 November 2). Several AWS experience problems with low battery voltages restricting real-time transmissions during the winter. If your SYNOP or TEMP message percentage given here is lower than you think it should be, please check your GTS routing.	▶ All GUAN stations are now carrying out at least some radiosonde flights each month. Several stations experience problems with balloons bursting early during the winter due to low stratospheric temperatures. 89564 had sonde flights with data to 100 hPa on every day in August.
<ul style="list-style-type: none"> • AntON CLIMAT monitoring in 2015 • AntON CLIMAT monitoring in 2014 • AntON CLIMAT monitoring in 2013 • AntON CLIMAT monitoring in 2012 • AntON CLIMAT monitoring in 2011 • ABCN CLIMAT monitoring in 2010 • ABCN CLIMAT monitoring in 2009 • ABCN CLIMAT monitoring in 2008 • ABCN CLIMAT monitoring in 2007 • ABCN CLIMAT monitoring in 2006 	<ul style="list-style-type: none"> • AntON SYNOP monitoring in 2015 (manual) / 2015 (automated) • AntON SYNOP monitoring in 2014 • AntON SYNOP monitoring in 2013 • AntON SYNOP monitoring in 2012 • AntON SYNOP monitoring in 2011 • ABCN SYNOP monitoring in 2010

Ships

▶ Ships reporting in 2004/05	▶ Ships reporting in 2005/06
▶ Ships reporting in 2006/07	▶ Ships reporting in 2007/08
▶ Ships reporting in 2008/09	▶ Ships reporting in 2009/10
▶ Ships reporting in 2010/11	▶ Ships reporting in 2011/12

Ships

Ships reporting in 2004/05	Ships reporting in 2005/06
Ships reporting in 2006/07	Ships reporting in 2007/08
Ships reporting in 2008/09	Ships reporting in 2009/10
Ships reporting in 2010/11	Ships reporting in 2011/12
Ships reporting in 2012/13	Ships reporting in 2013/14
Ships reporting in 2014/15 [Updated 2015 June 22]	Ships reporting in 2015/16 [Updated 2015 November 16]
Sign up to send met reports through Yotreps	Latest list of ships with significant errors/biases in their reports
Download electronic met logbook software from the VOS website	Download Turbowin and instruction for sending messages here
Oceanographic ship locations (Sailwx)	Ship locations (Sailwx)
Live ships map (Marine Traffic)	Palmer AIS (APRS.fi)

Planes

Coding aircraft observations (Draft)	
--	--

Overland traverses

Reporting traverse observations (Draft)	
---	--

Forecasting and Forecasts

BAS Antarctic Weather Forecasting Manual	International Antarctic Weather Forecasting Manual [updated 2009 June]
Antarctic Mesoscale Prediction System Forecast products from Byrd Polar Research Center of Ohio State University	UV forecasts from SCIAMACHY
Antarctic ensemble plots from the Australian BoM & CSIRO	Forecasts for Norwegian Antarctic sites
TAFs and Forecast charts generated at Rothera for BAS operations	Forecasts for Dronning Maud Land Air Network (DROMLAN)

Information

University of Wisconsin Real time weather data and displays	WMO Polar Observations, Research and Services
Argentinian Antarctic weather information	Australian Antarctic weather information
Brazilian Antarctic weather information	Chilean weather information
	Italian Antarctic weather information
Russian Antarctic weather information	Russian weather server for Antarctica and sub Antarctic islands
Polar View Antarctic portal	UK Antarctic weather information
SCAR READER database	

Performance of the Antarctic Observing Network (AntON) 2015 CLIMAT MESSAGES

Surface stations

This chart shows the status of CLIMAT messages during 2015 for stations in the EC-PORS zone of interest, M = message on GTS, B = message generated from SYNOP by BAS, S = message received at a centre, but not on GTS, NIL = Insufficient SYNOP messages to generate a CLIMAT. Off green = Message on the GTS contains errors (GSN station, many are not significant), Pale green = 80% or more SYNOP messages available, Yellow = NIL message received, Pale yellow = Less than 80% SYNOP messages available, Amber = Silent non GSN station, Red = Silent GSN station. NOTE monitoring does not distinguish between problems with generation and transmission of messages. Monitoring is manual and may have errors. See http://www.antarctica.ac.uk/met/jds/met/AntON_SYN_2015.pdf for percentages for stations with NIL reports.

WMO no	Station	GSN	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Sub Antarctic stations (in Region I, III or V)													
61997	Isle Crozet	X	M	M	M	M	M	M	M	M	M			
61998	Isle Kerguelen	X	M	M	M	M	M	M	M	M	M			
68906	Gough Island	X	M	M	M	M	M	M	NIL	M	M			
68992	Bouvetoya	X												
68994	Marion Island	X	M	M	M	M	M	M	M	M	M			
88870	Mount Byron		B	B	B	B	NIL	0	0	NIL	NIL			
88878	Pebble Island		NIL	NIL	NIL	NIL	B	NIL	NIL		NIL			
88881	Mount Kent		B	B	6	0	0	0	NIL	B	B			
88883	Weddell Island		B	NIL	NIL	NIL	B	NIL	B	NIL	NIL			
88889	Mount Pleasant Airport	X	B	B	B	B	B	B	B	B	M			
88892	Sapper Hill													
88894	Mount Alice		NIL	0	NIL	B	B	B	B	B	B			
88897	Sea Lion Island		NIL	NIL	B	NIL	B	B	B	NIL	NIL			
88900	Bird Island		M	M	M	M	M	M	M	M	M			
88903	Grytviken	X	M	M	M	M	M	M	M	M	M			
88986	South Thule Island													
93929	Enderby Island AWS		B	B	B	B	B	B	B	B	B			
93947	Campbell Island AWS	X	M	M	M	M	M	M	M	M	M			
94997	Heard Island (The Spit)		M	M	B	B	B	B	B	B	B			
94998	Macquarie Island	X	M	M	M	M	M	M	M	M	M			
95997	Heard Island (Atlas Cove)	Failed												
	Antarctic stations													
WMO no	Station													
88963	Esperanza	X	M	M	M	M	M	M	S	M	M			

Performance of the Antarctic Observing Network (AntON) SYNOP

Surface stations

This chart shows the status of SYNOP messages for the main hours on the GTS during 2015, with green representing good performance, light green representing less than 90% of expected messages (acceptable, but not adequate for CLIMAT), yellow less than 80% and amber less than 50%.

If less than 30% are found then the number of days in the month that observations were recieved is displayed which may have been on non main synoptic hours which occurs mainly for AWS transmitting via Argos.

When the number of days is displayed a D is shown before the number, greater than 25 days is displayed in green, light green for between 20 and 25 days, yellow for between 10 and 20 days, amber for between 5 and 10 days and red for less than 5 days.

WMO no	Station name	Comments	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
61997	Isle Crozet	GSN station	100	84	99	100	96	99	98	100	100	94		
61998	Isle Kerguelen	GSN station	100	84	99	100	100	100	100	100	100	94		
68906	Gough Island	GSN station	99	94	99	89	97	70	66	98	96	100		
68992	Bouvetoya	GSN station	0	0	0	0	0	0	0	0	0	0		
68994	Marion Island	GSN station	100	99	100	96	98	96	98	98	100	99		
88870	Mount Byron		92	100	100	100	41	0	0	58	41	99		
88878	Pebble Island		69	87	83	65	90	85	37	0	D 5	92		
88881	Mount Kent		100	100	D 2	0	0	0	62	100	99	100		
88883	Weddell Island		95	71	88	79	95	89	98	49	50	71		
88889	Mount Pleasant Airport	GSN station	100	100	100	100	100	100	100	100	100	100		
88892	Sapper Hill		0	0	0	0	0	0	0	0	0	0		
88894	Mount Alice		76	0	41	100	100	100	100	100	100	100		
88897	Sea Lion Island		62	54	95	75	95	94	98	49	87	56		
88900	Bird Island		94	86	95	89	95	95	90	97	97	98		
88903	Grytviken	GSN station	87	96	92	97	78	91	91	98	98	100		
88986	South Thule Island		0	0	0	0	0	0	0	0	0	0		
93929	Enderby Island AWS		99	100	99	100	100	100	100	100	100	100		
93947	Campbell Island AWS	GSN station	99	100	99	100	100	100	100	100	100	100		
94997	Heard Island (The Spit)		95	93	94	92	90	94	93	95	94	94		
94998	Macquarie Island	GSN station	100	100	100	98	100	100	100	100	100	100		
95997	Heard Island (Atlas Cove)	Failed	0	0	0	0	0	0	0	0	0	0		
88963	Esperanza	GSN station	96	100	97	96	99	98	97	95	98	95		
88968	Orcadas	GSN station	97	97	97	95	99	99	99	95	98	96		
89002	Neumayer	GSN station	100	100	100	100	100	100	100	100	100	100		
89003	Halvfarryggen EP11		98	100	100	99	100	D 2	0	0	0	0		
89004	SANAE	GSN station	94	93	94	82	75	85	87	91	95	95		
89009	Amundsen-Scott	GSN station	98	98	98	98	100	99	100	100	99	99		

Upper air stations

The monthly columns show the status of TEMP messages with data to 100 hPa (after quality control) on the GTS, with yellow representing less than 70% of expected messages, amber representing less than 40% and red less than 10% of messages. Where two numbers are given, the second includes flights that did not appear on the GTS. Stations are assessed against their published programme in WMO No 9, Vol A at the beginning of the year.

NOTE monitoring does not distinguish between problems with generation and transmission of messages. Monitoring is manual and may have errors and there are occasional breaks in the BAS GTS feed. The 100 hPa level is chosen as the minimum target level for GUAN stations, but balloon performance often degrades during the polar winter and not all flights reach this level.

INDEX	STATION NAME		GUAN	1	2	3	4	5	6	7	8	9	10	11	12
61998	ILES KERGUELEN	12	X	74	64	77	70	67	63	74	64	66	64		
68906	GOUGH ISLAND	00	X	90	82	90	90	100	86	80	22	36	80		
68906	GOUGH ISLAND	12	X	93	85	80	93	96	86	93	16	50	100		
68994	MARION ISLAND	00	X	0	0	0	0	0	0	0	0	0	0		
68994	MARION ISLAND	12	X	0	0	0	3	0	0	0	0	0	0		
88889	MOUNT PLEASANT AIRPORT	00	X	96	92	96	83	70	73	90	80	96	90		
88889	MOUNT PLEASANT AIRPORT	12	X	0	0	0	13	16	20	16	12	0	0		
94998	MACQUARIE ISLAND	00	X	96	85	100	96	100	86	96	93	96	93		
94998	MACQUARIE ISLAND	12	X	100	82	90	96	96	93	100	93	96	90		
89002	NEUMAYER	12	X	77	0	90	90	96	93	83	87	83	87		
89009	AMUNDSEN-SCOTT	00	X	100	100	100	100	93	63	25	16	36	80		
89009	AMUNDSEN-SCOTT	12	X	100	100	16	26	0	0	0	0	0	74		
89022	HALLEY	12	X	100	89	97	100	87	93	87	84	90	93		
89055	BASE MARAMBIO (CENTRO MET. ANTARTICO)	12	X	39	39	39	37	23	30	39	39	37	32		
89062	ROTHERA	12	X	58	54	58	53	52	60	58	52	57	58		
89512	NOVOLAZAREVSKAJA	00	X	90	100	87	86	90	80	77	83	73	77		
89512	NOVOLAZAREVSKAJA	12	X	0	42	0	0	35	0	0	32	0	0		
89532	SYOWA	00	X	80	50	74	73	61	63	61	58	53	74		
89532	SYOWA	12	X	70	64	90	66	77	76	64	77	60	67		
89564	MAWSON	12	X	96	100	93	100	100	90	100	100	96	96		
89571	DAVIS	00	X	64	96	54	0	0	0	0	0	0	32		
89571	DAVIS	12	X	96	0	51	100	96	86	96	96	100	67		
89592	MIRNYJ	00	X	96	92	96	93	100	93	90	77	90	100		
89592	MIRNYJ	12	X	0	50	0	0	41	0	0	38	0	0		
89611	CASEY	00	X	96	92	100	100	90	90	87	90	93	96		
89611	CASEY	12	X	90	100	100	100	87	90	87	90	86	90		
89625	CONCORDIA	12		77	96	96	93	100	70	32	22	40	74		
89642	DUMONT D'URVILLE	00	X	87	96	77	90	83	83	70	83	80	67		
89662	MARIO ZUCCELLI STATION	00		48	0	0	0	0	0	0	0	0	0		
89662	MARIO ZUCCELLI STATION	12		0	0	0	0	0	0	0	0	0	0		
89664	MCMURDO	00	X	93	92	93	93	100	60	16	12	63	96		
89664	MCMURDO	12	X	90	100	12	26	0	0	0	0	0	83		

Notes: Balloons at 89009, 89022, 89625, 89642 and 89664 and to a lesser extent at other Antarctic stations, burst early in the winter months due to the low stratospheric temperature.

FILE MESSAGE

Ignore Delete Reply Reply All Forward More Meeting

Admin To Manager Team Email Done Reply & Delete Create New

Move Rules OneNote Actions

Assign Policy Mark Unread Categorize Follow Up

Translate Find Related Select

Delete Respond Quick Steps Move Tags Editing Zoom



Tue 17/11/2015 08:05

Steve Colwell <src@bas.ac.uk>

Missing synopsis file

To Colwell, Steve

[Bing Maps](#)
[+ Get more apps](#)

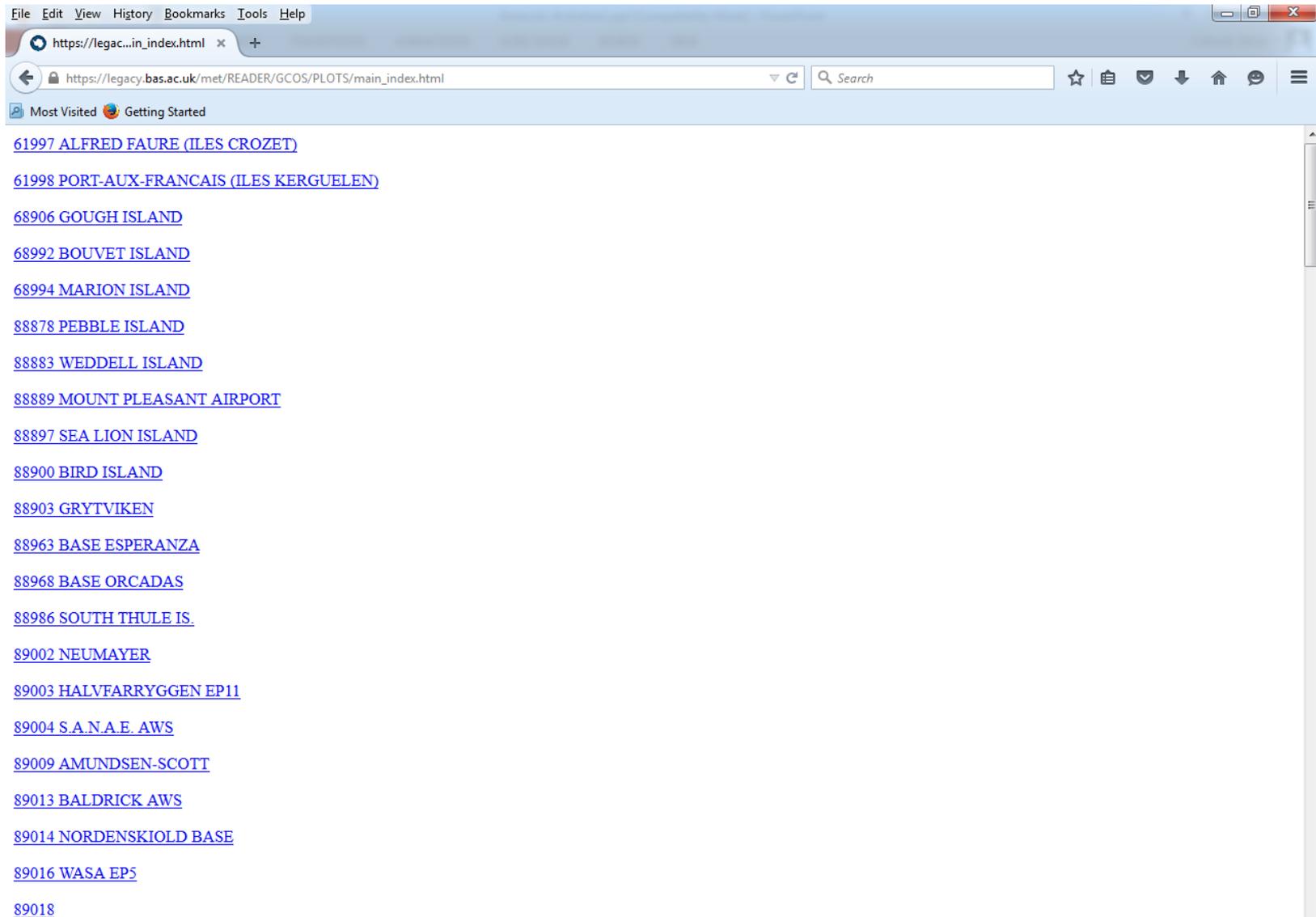
Id	Date	Days late	Name
01002	2015 11 08 21	-8	VERLEGENHUKEN
01481	2015 11 09 15	-7	MELSOM
24988	2015 11 09 12	-7	ARKA
88883	2015 11 04 18	-12	WEDDELL ISLAND
89251	2015 11 14 06	-3	KING SEJONG
89314	2015 10 24 05	-24	UNIV. WI ID 21358 (THERESA)
89329	2015 09 15 13	-62	UNIV. WI (HARRY)
89610	2015 10 06 03	-42	CASEY (CAPE POINSETT)
94324	2015 11 09 23	-7	YUENDUMU
94791	2015 08 27 22	-81	COFFS HARBOUR MO

Percentage of SYNOPSIS for main synoptic hours received via the GTS (Global Telecommunication System) at BAS (British Antarctic Survey)

This is from the data feed that we receive at BAS from the UK Met Office, it is a partial feed only including stations of interest to BAS and it is subject to some interruption

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1998	01	02	03	04	05	06	07	08	09	10	11	12
1999	01	02	03	04	05	06	07	08	09	10	11	12
2000	01	02	03	04	05	06	07	08	09	10	11	12
2001	01	02	03	04	05	06	07	08	09	10	11	12
2002	01	02	03	04	05	06	07	08	09	10	11	12
2003	01	02	03	04	05	06	07	08	09	10	11	12
2004	01	02	03	04	05	06	07	08	09	10	11	12
2005	01	02	03	04	05	06	07	08	09	10	11	12
2006	01	02	03	04	05	06	07	08	09	10	11	12
2007	01	02	03	04	05	06	07	08	09	10	11	12
2008	01	02	03	04	05	06	07	08	09	10	11	12
2009	01	02	03	04	05	06	07	08	09	10	11	12
2010	01	02	03	04	05	06	07	08	09	10	11	12
2011	01	02	03	04	05	06	07	08	09	10	11	12
2012	01	02	03	04	05	06	07	08	09	10	11	12
2013	01	02	03	04	05	06	07	08	09	10	11	12
2014	01	02	03	04	05	06	07	08	09	10	11	12
2015	01	02	03	04	05	06	07	08				

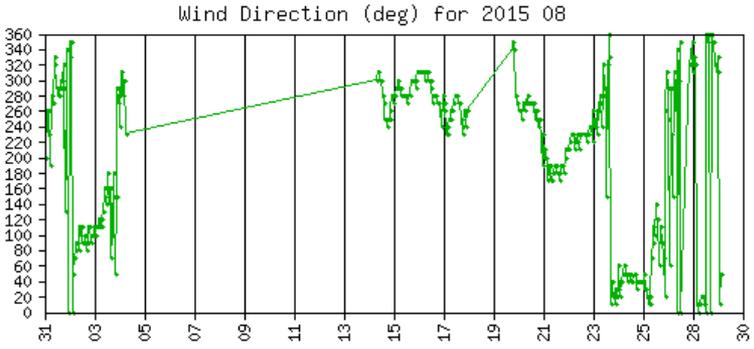
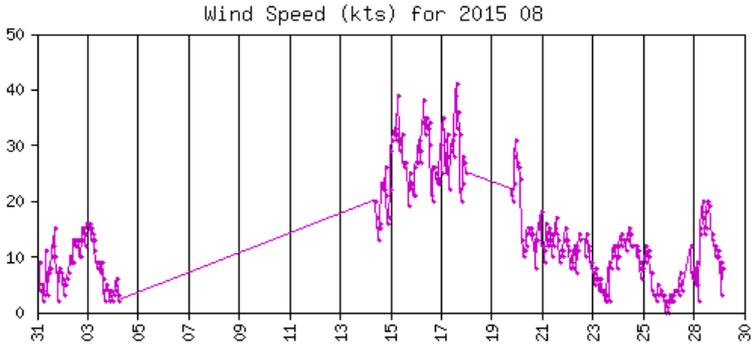
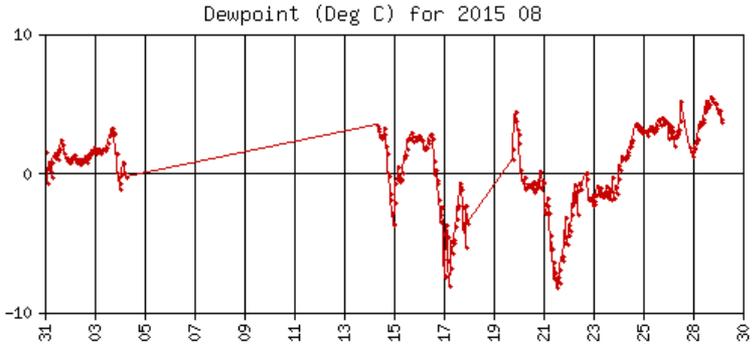
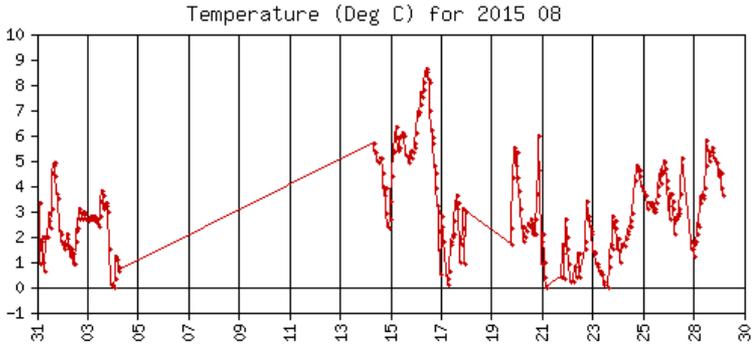
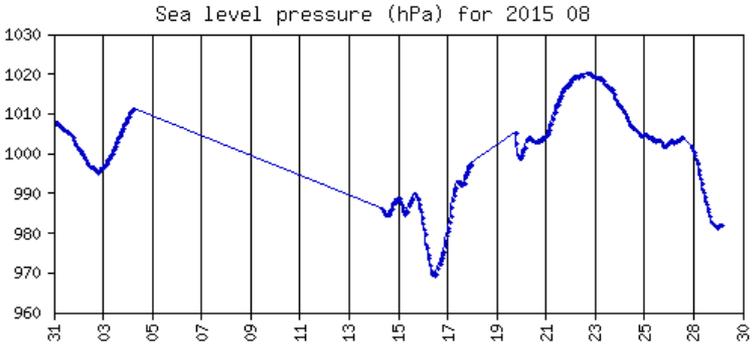
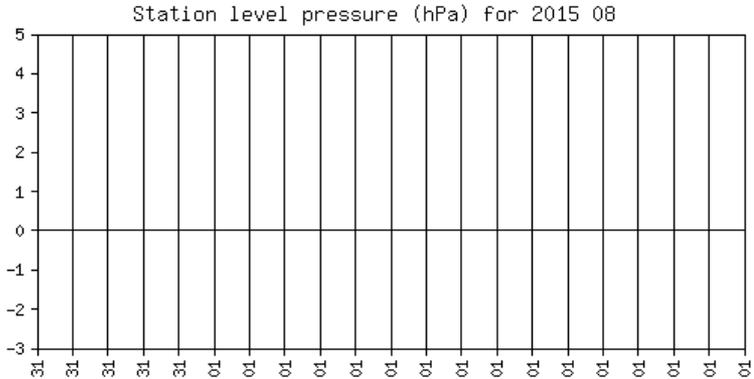
Plots of 6 hourly synoptic data received from the GTS



The image shows a screenshot of a web browser window. The address bar displays the URL https://legacy.bas.ac.uk/met/READER/GCOS/PLOTS/main_index.html. The browser interface includes a menu bar with 'File', 'Edit', 'View', 'History', 'Bookmarks', 'Tools', and 'Help'. Below the address bar is a search bar with the text 'Search' and several navigation icons (star, folder, shield, down arrow, home, speech bubble, and hamburger menu). The main content area of the browser displays a list of station identifiers and names, each as a blue underlined link. The list includes:

- [61997 ALFRED FAURE \(ILES CROZET\)](#)
- [61998 PORT-AUX-FRANCAIS \(ILES KERGUELEN\)](#)
- [68906 GOUGH ISLAND](#)
- [68992 BOUVET ISLAND](#)
- [68994 MARION ISLAND](#)
- [88878 PEBBLE ISLAND](#)
- [88883 WEDDELL ISLAND](#)
- [88889 MOUNT PLEASANT AIRPORT](#)
- [88897 SEA LION ISLAND](#)
- [88900 BIRD ISLAND](#)
- [88903 GRYTVIKEN](#)
- [88963 BASE ESPERANZA](#)
- [88968 BASE ORCADAS](#)
- [88986 SOUTH THULE IS.](#)
- [89002 NEUMAYER](#)
- [89003 HALVFARRYGGEN EP11](#)
- [89004 S.A.N.A.E. AWS](#)
- [89009 AMUNDSEN-SCOTT](#)
- [89013 BALDRICK AWS](#)
- [89014 NORDENSKIOLD BASE](#)
- [89016 WASA EP5](#)
- 89018

88883 (WEDDELL ISLAND) data for 2015 08

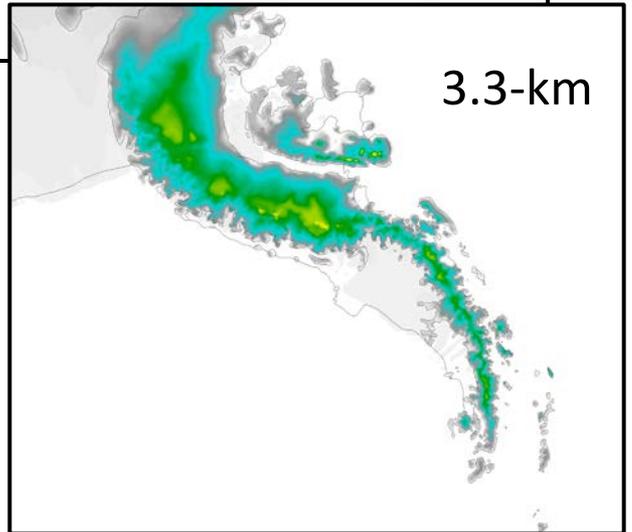
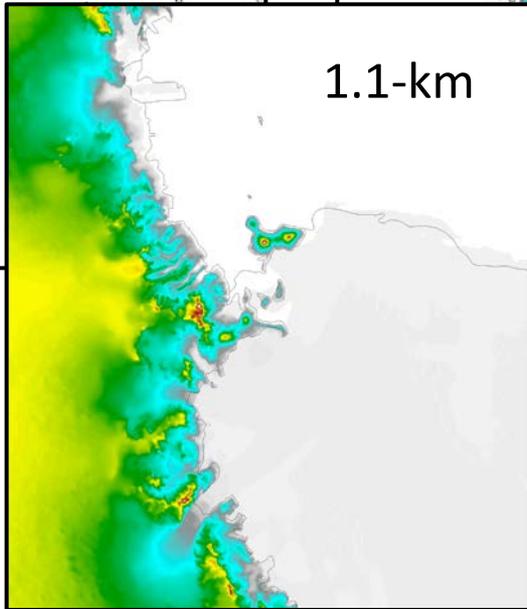
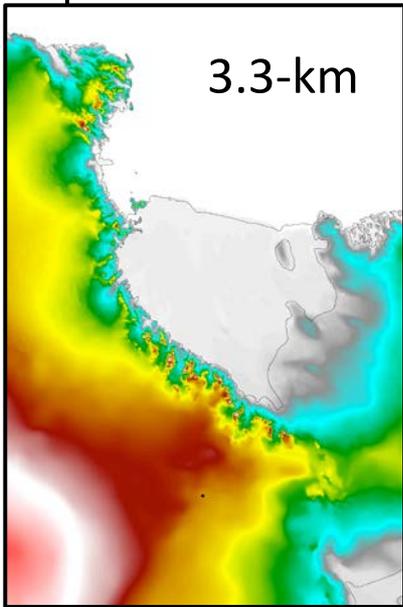
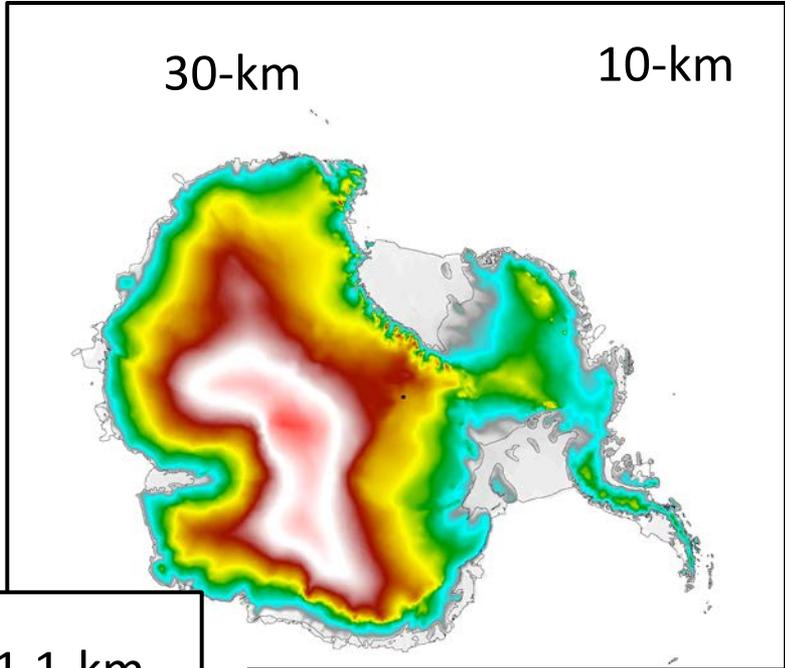
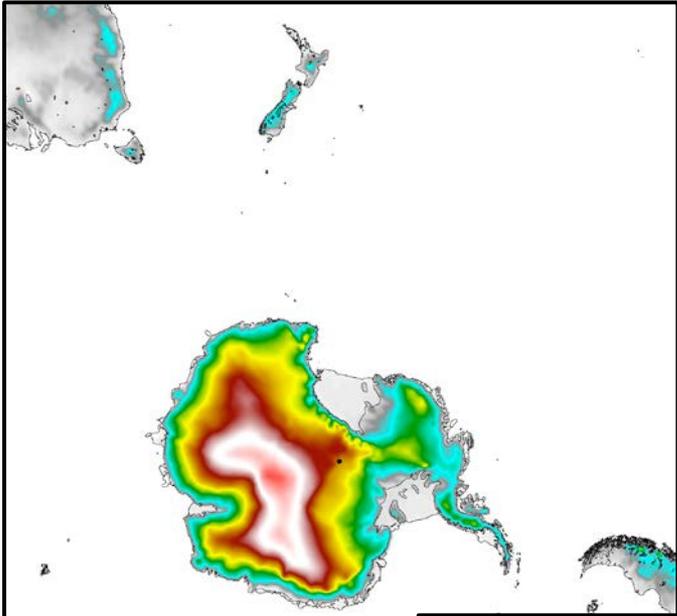


Weather forecasting in Antarctica

- Different national operators use different weather forecast products in Antarctica.
 - UK uses UK Met Office model products and contracts in UK Met Office forecasters at our Rothera research station.
 - The Italians use ECMWF forecast products
 - The Australians use the products produce by the Bureau of Meteorology.
 - etc
- One freely available forecast product that is widely used is AMPS (Antarctic Mesoscale Prediction System)

The Antarctic Mesoscale Prediction System

- Provides customized NWP support for Antarctic forecasters.
 - Forecast model is the Weather Research and Forecasting Model (WRF), tuned for the Antarctic environment.
- Funded by the National Science Foundation.
 - Collaboration between National Center for Atmospheric Research/ Mesoscale and Microscale Meteorology Laboratory and the Ohio State University/Byrd Polar Research Center.
 - Primary goals are to support USAP forecasters and activities, and to support research and education efforts in Antarctic meteorology.
- Real-time forecasts running since October 2000.
- Real-time products disseminated primarily through the AMPS web page (<http://www2.mmm.ucar.edu/rt/amps/>) and the Antarctic-IDD network.
- AMPS archive – recent years available through Earth System Grid.



THE ANTARCTIC MESOSCALE PREDICTION SYSTEM (AMPS)

[Products Directory](#)
[GRIB Directory](#)
[Status View](#)
[AMPS-Related Links](#)

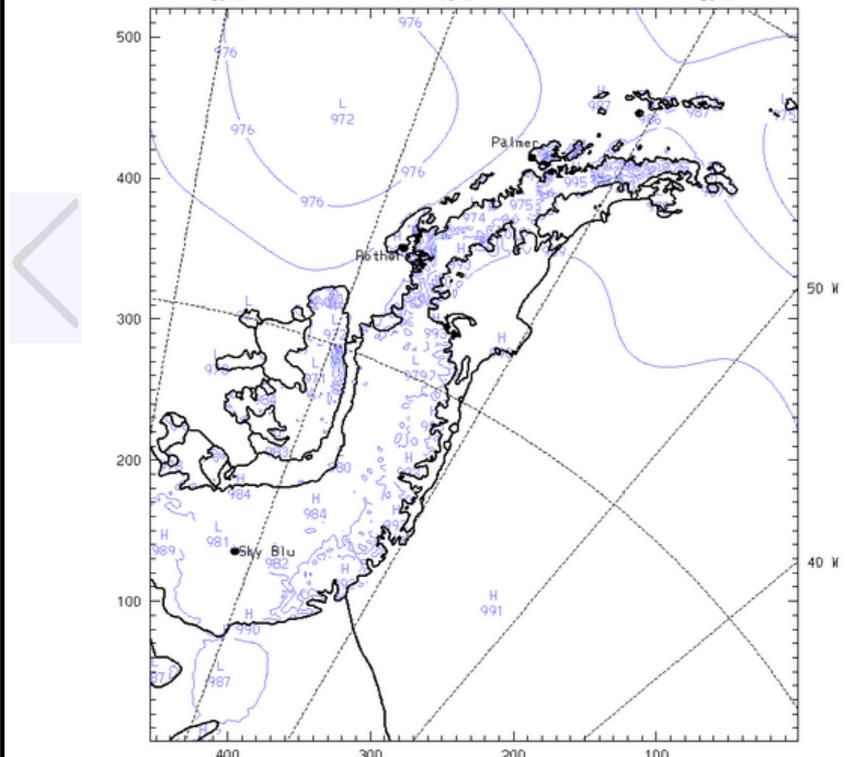
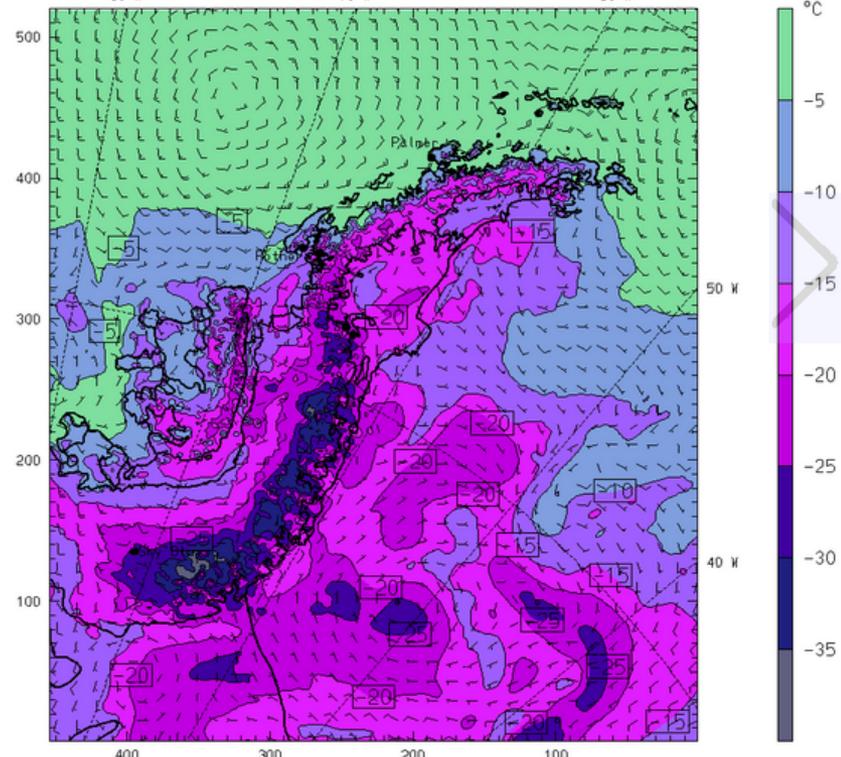
Forecast Hr	Grid / Window	Initial Time	Product
00 h	3 km Antarctic Peninsula	2015111600	<input type="radio"/> SFC <input type="radio"/> Sfc RH <input type="radio"/> Sfc RH (H2O) <input checked="" type="radio"/> SLP/Precip <input type="radio"/> Cloud base <input type="radio"/> Sea ice
<input type="button" value="Animations"/> <input type="button" value="4-Panel"/> <input type="button" value="AMPS info"/>	<input type="radio"/> Full <input type="radio"/> New <input checked="" type="radio"/> Scaled	<input type="button" value="Go Left"/> <input type="button" value="Go Right"/>	Upper air Soundings Tables Cross sections <input type="radio"/> PseudoSat <input type="radio"/> Sfc wind Meteograms

AMPS 3.3-km Peninsula WRF
 Fcst. 0 h
 Surface air temperature
 Horizontal wind vectors
 at k-index = 60

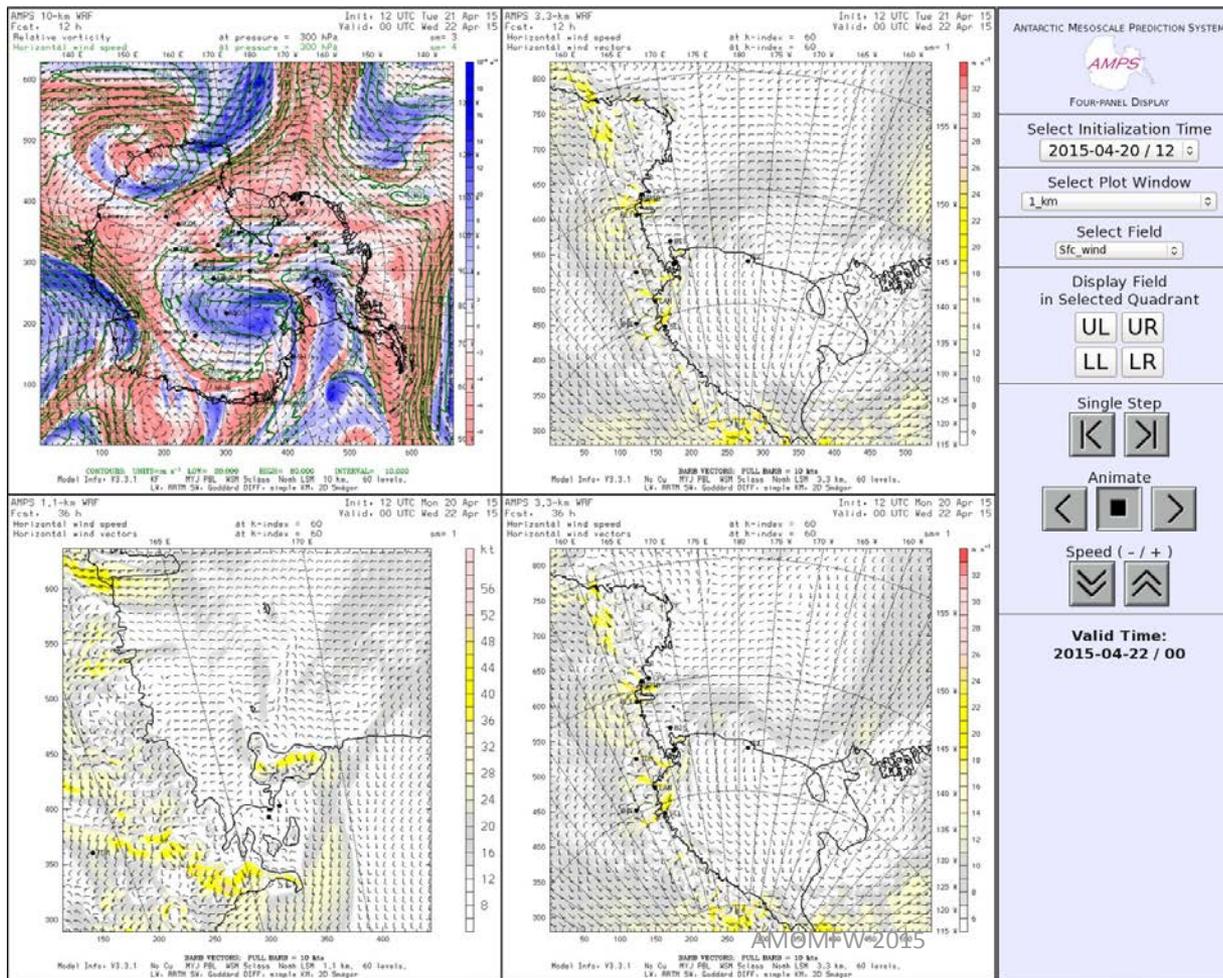
Init. 00 UTC Mon 16 Nov 15
 Valid. 00 UTC Mon 16 Nov 15
 sm= 1
 sm= 1

AMPS 3.3-km Peninsula WRF
 Fcst. 0 h
 Total precip. in past 3 h
 Sea-level pressure

Init. 00 UTC Mon 16 Nov 15
 Valid. 00 UTC Mon 16 Nov 15



AMPS 4-Panel Display



Step through or animate multiple fields

All graphics linked by matched forecast valid time



Polar View

[Click for more information](#)

Available datasets

SAR imagery

- Sentinel-1 [Select image](#)
- Radarsat 2 [Select image](#)
- Cosmo SkyMed [Select image](#)

Showing data for the last 72 hours (default)

Sea ice concentration

- AMSR2 Sea ice edge (15%) [2015-11-17](#)
- AMSR2 Sea ice map [2015-11-17](#)

Ice charts

- Ice chart (met.no) [2015-04-27](#)
- Ice chart (NIC) [2015-11-16](#)

Mosaics

- MODIS Mosaic (yesterday) [2015-11-16](#)

MyOcean Sea Ice Edges

- MyOcean edge boundaries [Select image](#)
- Showing data for the last 30 days (default)

Icebergs

- NIC iceberg data [unknown](#)

S1 Future Acquisitions

- S1 Foresight [unknown](#)

Showing data for the next 7 days (default)

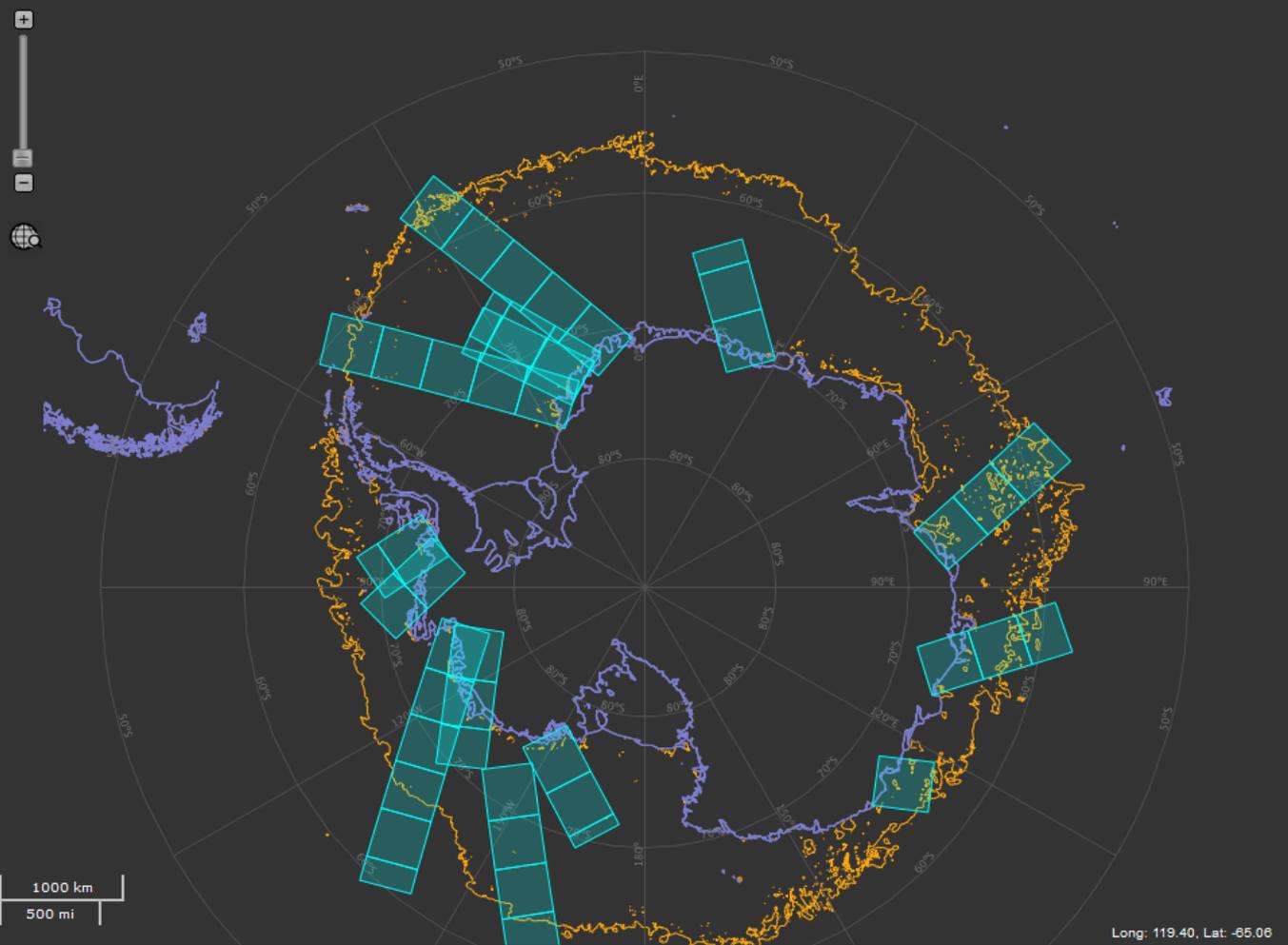


Image preview

SAR imagery	Sea ice concentratio	Ice charts	Mosaics	MyOcean Sea Ice Edg	Icebergs	S1 Future Acquisitions



Polar View

[Click for more information](#)

Available datasets

SAR imagery

- Sentinel-1 [Select image](#)
- Radarsat 2 [Select image](#)
- Cosmo SkyMed [Select image](#)

Showing data for the last 72 hours (default)

Sea ice concentration

- AMSR2 Sea ice edge (15%) [2015-11-17](#)
- AMSR2 Sea ice map [2015-11-17](#)

Ice charts

- Ice chart (met.no) [2015-04-27](#)
- Ice chart (NIC) [2015-11-16](#)

Mosaics

- MODIS Mosaic (yesterday) [2015-11-16](#)

MyOcean Sea Ice Edges

- MyOcean edge boundaries [Select image](#)

Showing data for the last 30 days (default)

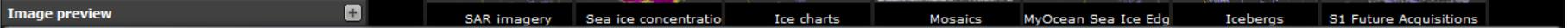
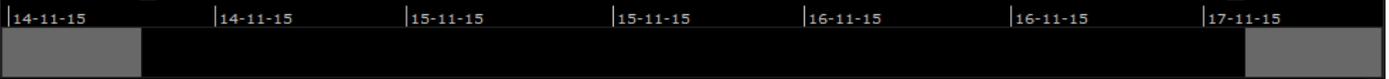
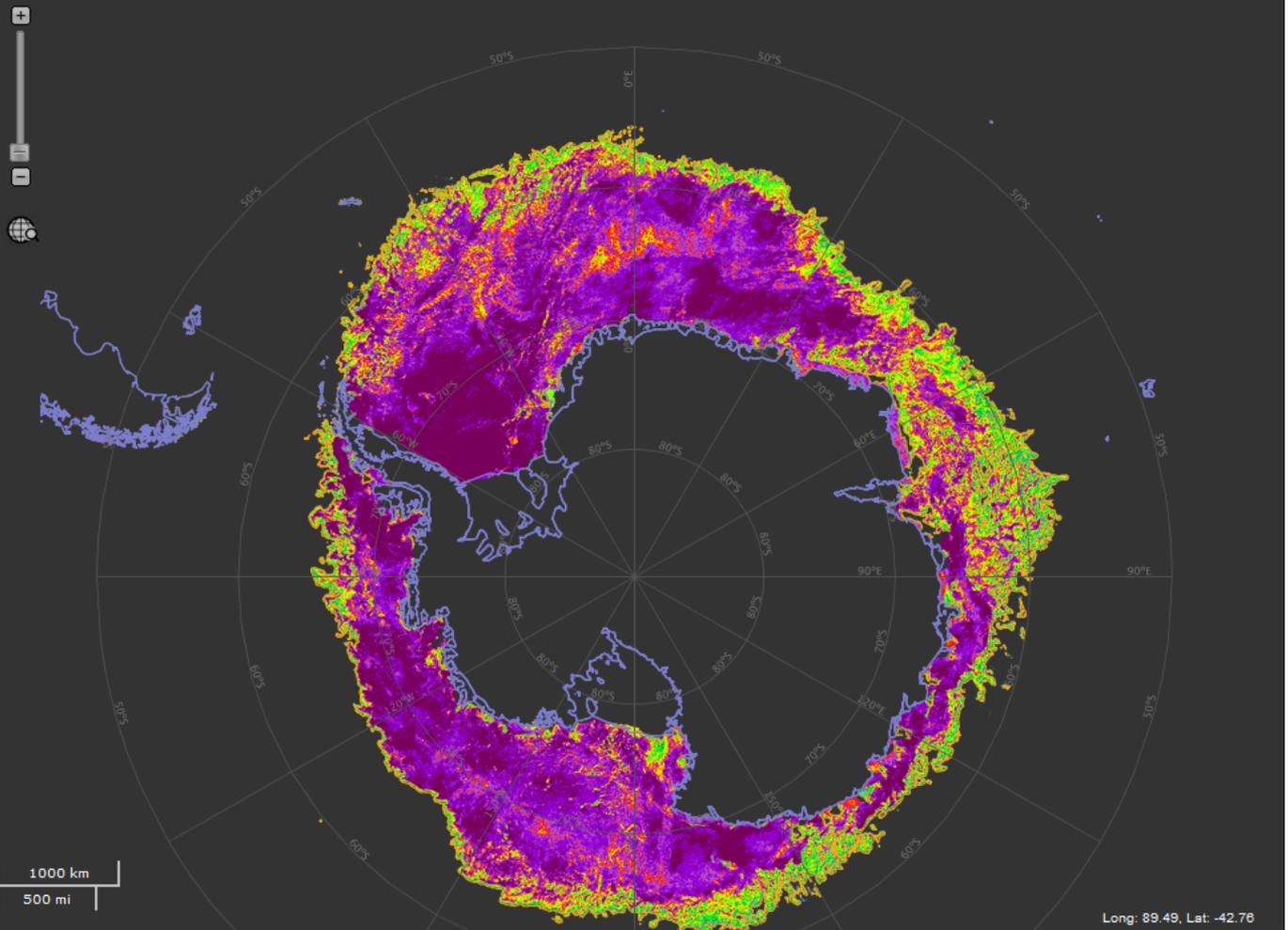
Icebergs

- NIC iceberg data [unknown](#)

S1 Future Acquisitions

- S1 Foresight [unknown](#)

Showing data for the next 7 days (default)





Polar View

[Click for more information](#)

Available datasets

SAR imagery

- Sentinel-1 [Select image](#)
- Radarsat 2 [Select image](#)
- Cosmo SkyMed [Select image](#)

Showing data for the last 72 hours (default)

Sea ice concentration

- AMSR2 Sea ice edge (15%) [2015-11-17](#)
- AMSR2 Sea ice map [2015-11-17](#)

Ice charts

- Ice chart (met.no) [2015-04-27](#)
- Ice chart (NIC) [2015-11-16](#)

Mosaics

- MODIS Mosaic (yesterday) [2015-11-16](#)

MyOcean Sea Ice Edges

- MyOcean edge boundaries [Select image](#)
- Showing data for the last 30 days (default)

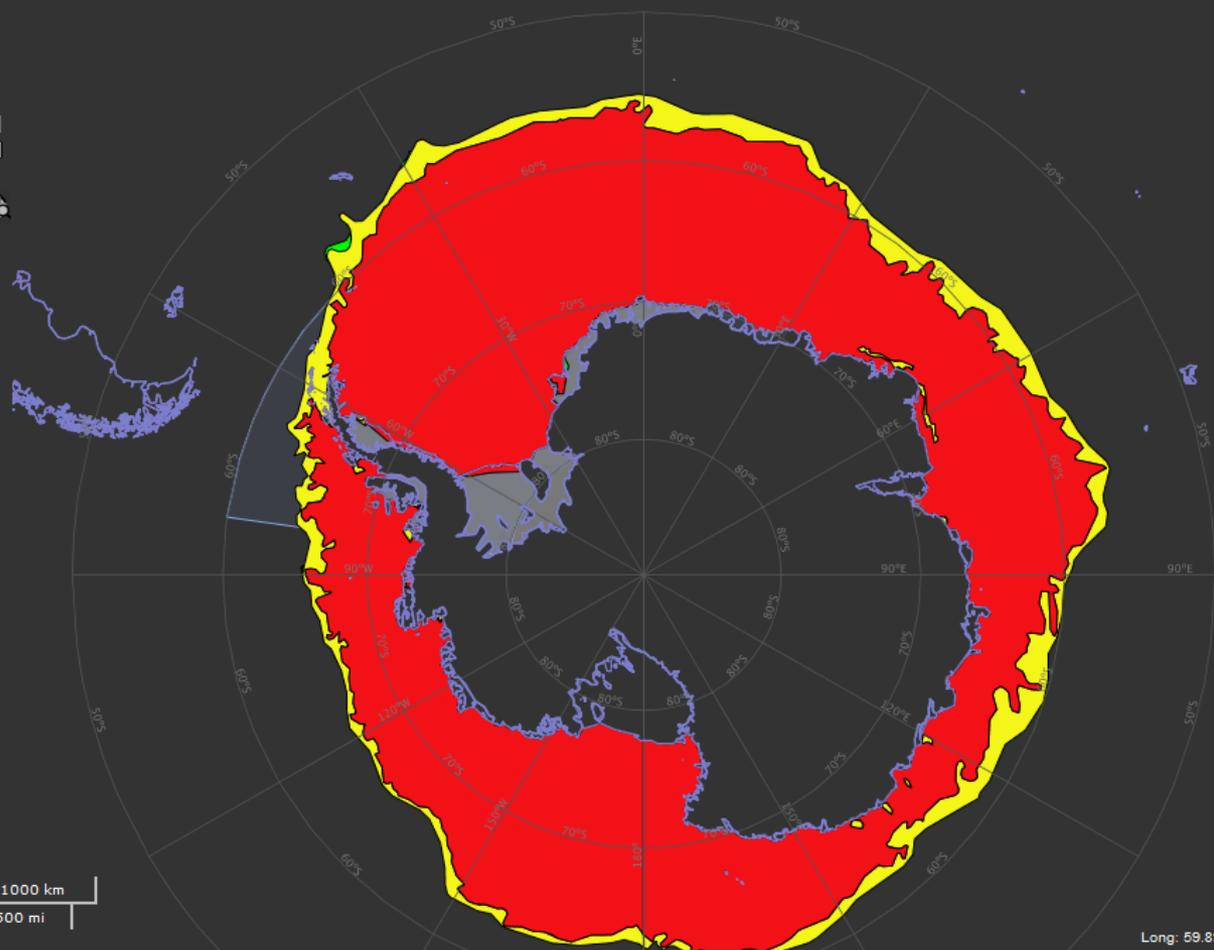
Icebergs

- NIC iceberg data [unknown](#)

S1 Future Acquisitions

- S1 Foresight [unknown](#)

Showing data for the next 7 days (default)



14-11-15 | 14-11-15 | 15-11-15 | 15-11-15 | 16-11-15 | 16-11-15 | 17-11-15

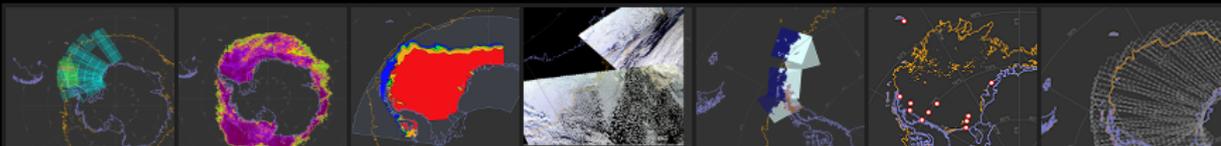


Image preview

SAR imagery

Sea ice concentratio

Ice charts

Mosaics

MyOcean Sea Ice Edg

Icebergs

S1 Future Acquisitions



Polar View

[Click for more information](#)

Available datasets

SAR imagery

- Sentinel-1 [Select image](#)
- Radarsat 2 [Select image](#)
- Cosmo SkyMed [Select image](#)

Showing data for the last 72 hours (default)

Sea ice concentration

- AMSR2 Sea ice edge (15%) [2015-11-17](#)
- AMSR2 Sea ice map [2015-11-17](#)

Ice charts

- Ice chart (met.no) [2015-04-27](#)
- Ice chart (NIC) [2015-11-16](#)

Mosaics

- MODIS Mosaic (yesterday) [2015-11-16](#)

MyOcean Sea Ice Edges

- MyOcean edge boundaries [Select image](#)

Showing data for the last 30 days (default)

Icebergs

- NIC Iceberg data [unknown](#)

S1 Future Acquisitions

- S1 Foresight [unknown](#)

Showing data for the next 7 days (default)

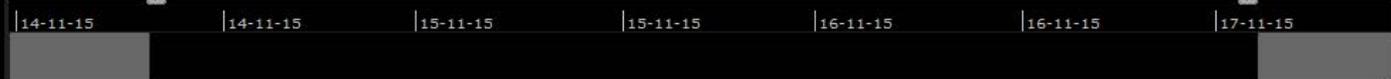
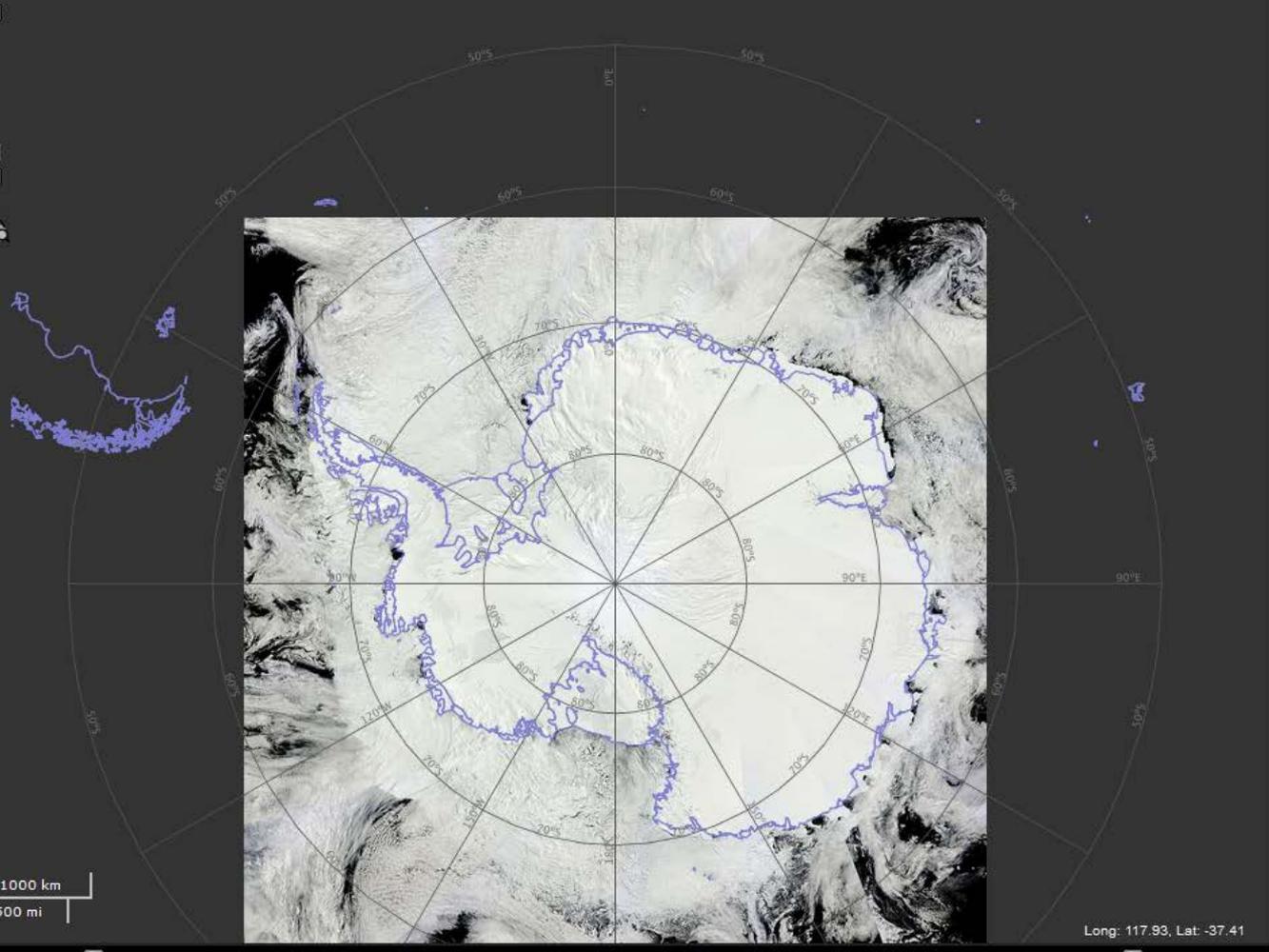


Image preview



SAR imagery Sea ice concentration Ice charts Mosaics MyOcean Sea Ice Edges Icebergs S1 Future Acquisitions



Polar View

[Click for more information](#)

Available datasets

- SAR imagery**
 - Sentinel-1 [Select image](#)
 - Radarsat 2 [Select image](#)
 - Cosmo SkyMed [Select image](#)
 - Showing data for the last 72 hours (default)
- Sea ice concentration**
 - AMSR2 Sea ice edge (15%) [2015-11-17](#)
 - AMSR2 Sea ice map [2015-11-17](#)
- Ice charts**
 - Ice chart (met.no) [2015-04-27](#)
 - Ice chart (NIC) [2015-11-16](#)
- Mosaics**
 - MODIS Mosaic (yesterday) [2015-11-16](#)
- MyOcean Sea Ice Edges**
 - MyOcean edge boundaries [Select image](#)
 - Showing data for the last 30 days (default)
- Icebergs**
 - NIC iceberg data [unknown](#)
- S1 Future Acquisitions**
 - S1 Foresight [unknown](#)
 - Showing data for the next 7 days (default)

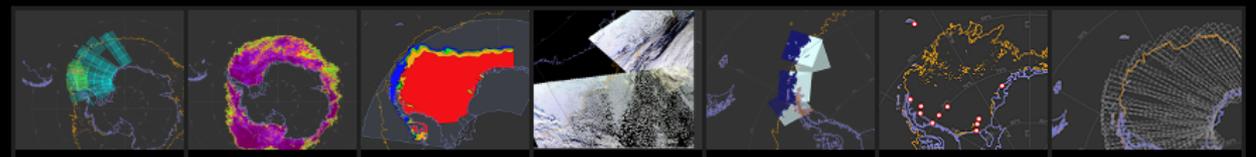
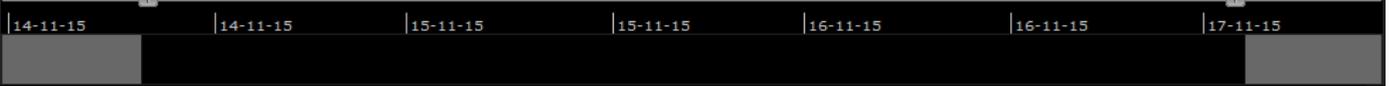
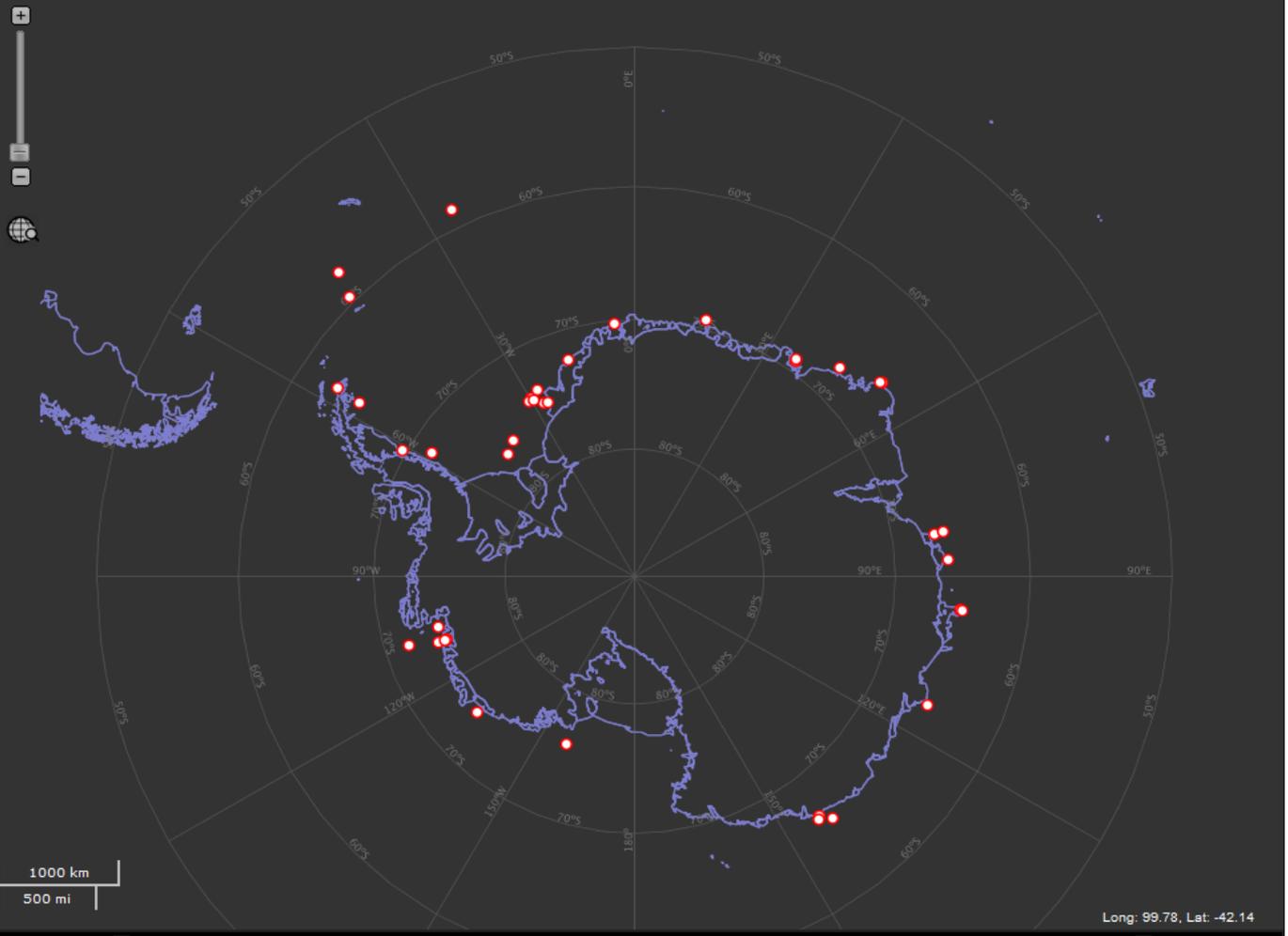


Image preview

SAR imagery Sea ice concentratio Ice charts Mosaics MyOcean Sea Ice Edg Icebergs S1 Future Acquisitions

QUESTIONS ?

