Real time data processing at BAS and GTS monitoring

Steve Colwell

Overview

- Real-time data processing
- GTS data monitoring
- READER update
- Google Earth plugins

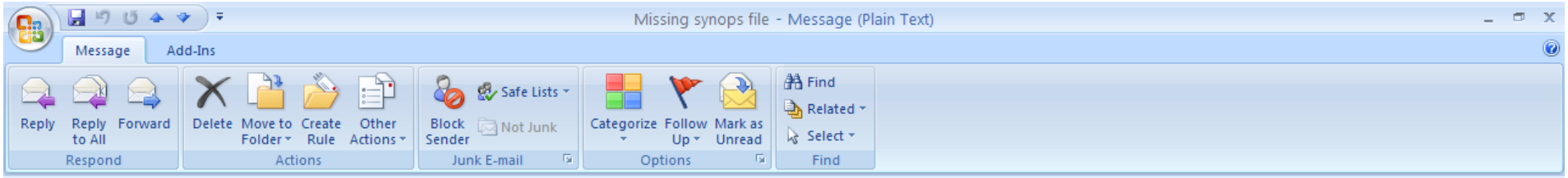
Real-time data processing

- Data is sent to the Met Office for insertion onto the GTS
- SYNOP and TEMP messages from BAS stations.
- Construct and send SYNOPS from the BAS AWS network.
- Ozone data from Halley and Rothera are sent in FM 95 (CREX) format.
- CLIMAT and CLIMAT TEMP messages.

- Data from Wisconsin AWS are sent to the Met Office in either SYNOP or SYNOP MOBIL format.
- CLIMAT message fro Palmer station is sent from BAS.
- CLIMAT messages from stations that are not being put onto the GTS by their operators are constructed from the 6 hourly data that went out on the GTS. If more than 90% of data is available then the CLIMAT message is sent to the Met Office.

GTS monitoring

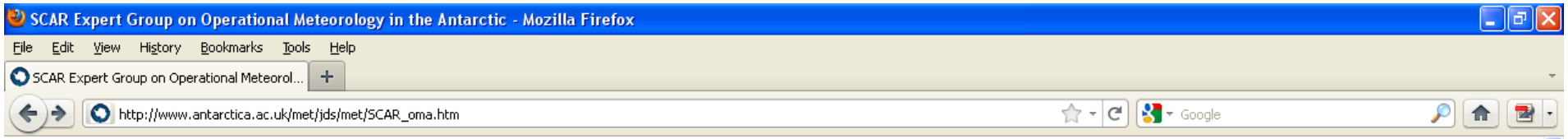
- GTS feed arrives at BAS from the Met Office via FTP.
- Messages are decoded automatically and loaded into an Oracle database.
- Scripts are run to check how current the latest entry in the database is for each station.
- Statistics and plots are automatically produced from the data in the database.



From: Steve Colwell [src@bas.ac.uk]
To: Colwell, Steve
Cc:
Subject: Missing synops file

Sent: Tue 14/06/2011 08:06

Id	Date	Days late	Name
31174	2011 06 05 18	-8	BOL'SHOJ SHANTAR
85832	2011 06 10 15	-3	FUTALEUFU
88878	2011 05 18 19	-26	PEBBLE ISLAND
88883	2011 05 20 14	-24	WEDDELL ISLAND
89014	2011 05 12 15	-32	NORDENSKIOLD BASE
89269	2011 06 09 22	-4	UNIV. WI ID 8923 (BONAPARTE POINT)
89272	2011 06 04 19	-9	UNIV. WI ID 8917 (SKI-BLU)
89327	2011 04 08 23	-66	UNIV. WI ID 8981 (MOUNT SIPLE)
89614	2011 06 06 04	-8	CASEY (WILKINS RUNWAY)
89648	2011 06 11 05	-3	MID POINT
89811	2011 05 21 05	-24	CASEY (LAW DOME SUMMIT)
89815	2011 06 04 07	-10	CASEY (HAUPT NUNATAK)
93305	2011 04 06 00	-69	MAUI A PLATFORM
94103	2011 04 09 07	-66	BROWSE ISLAND AWS
94122	2011 06 07 15	-6	POINT FAWCETT
94791	2011 03 31 09	-74	COFFS HARBOUR MO



Monitoring

UK Met Office global monitoring	Australian BoM global monitoring
ECMWF global monitoring	NCDC data list
Operational GSN stations with recent missing CLIMAT messages are: 88889 (April), 89625 (March), 89662 (January, February). Non operational GSN stations are: 68992, 89865. Summer only GSN stations are 89327. **Please check our GCOS monitoring results if your station is listed here and resend the data for the missing month(s).** See the latest CLIMATs or latest CLIMAT TEMPs pages 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 stations to submit CLIMAT reports for May were McMurdo, South Pole, Campbell Island, 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 the Antarctic and Oceanic Islands (Updated 2011 May). Several AWS experienced problems with low battery voltages restricting real-time transmissions during the winter. **If your SYNOP or TEMP message percentage 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.

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 [Updated 2011 May 5]	Latest list of ships with significant errors/biases in their reports

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	

Information

University of Wisconsin Real time weather data and displays	WMO Antarctic activities

Latest valid CLIMAT messages received at BAS

Last run on 2011-06-14 at 11:55

ID	Year	Month	Station pressure	MSL pressure	Temperature
61997	2011	05	989.4	1007.4	3.7
61998	2011	05	995.6	999.2	3.9
68906	2011	05	1007.6	1014.1	11.9
68994	2011	05	1008.4	1011.3	5.9
88889	2011	05	992.6	1001.6	5.2
88900	2011	05	999.2	999.5	1.6
88903	2011	05	997.7	998.0	0.9
88963	2011	05	988.3	991.4	-8.3
88968	2011	05	994.7	996.4	-2.5
89002	2011	05	978.4	983.8	-19.4
89004	2011	04	882.6	987.6	-17.1
89009	2011	05	676.3	-999.0	-62.6
89022	2011	05	981.4	985.1	-23.6
89034	2011	05	954.1	987.2	-17.0
89050	2011	05	988.2	990.1	-2.8
89053	2011	05	990.1	991.1	-2.4
89054	2010	11	986.1	988.3	0.6
89055	2011	05	966.1	991.6	-13.4
89056	2011	05	985.3	989.9	-3.0
89058	2011	05	987.9	990.2	-3.0
89059	2011	05	988.8	990.3	-5.4
89061	2011	05	985.9	986.9	-1.4
89062	2011	05	979.2	983.3	-3.1
89063	2011	05	985.5	986.6	-2.5
89065	2011	05	974.4	982.3	-8.8
89066	2011	05	984.0	984.9	-3.0
89108	2011	05	685.4	-999.0	-60.4
89257	2011	05	984.7	990.3	-32.3
89262	2011	05	985.5	991.3	-25.1
89266	2011	05	977.4	992.9	-26.1
89272	2011	05	798.6	-999.0	-23.3
89324	2011	05	799.8	-999.0	-31.6
89327	2011	04	972.8	1001.9	-10.5
89329	2011	05	865.2	978.6	-26.5
89345	2011	05	876.0	-999.0	-999.0
89376	2011	05	972.7	-999.0	-34.7
89377	2011	05	974.8	-999.0	-31.5
89512	2011	05	968.7	984.0	-15.0

Latest valid CLIMAT TEMP messages received at BAS

Last run on 2011-06-14 at 11:55

ID	Year	Month	g	Number of levels	100hPa height	100hPa temperature
61998	2010	08	2	7	15823	-58.5
68906	2010	09	1	9	16186	-58.9
68994	2010	09	1	9	15947	-58.5
88889	2010	05	3	18	15908	-57.2
89002	2010	06	2	9	14890	-74.0
89009	2011	05	1	9	14935	-69.0
89022	2011	05	2	9	15095	-66.9
89055	2003	09	2	9	14996	-77.3
89062	2011	05	2	9	15306	-62.7
89512	2011	05	3	14	15160	-63.4
89532	2010	09	1	9	14683	-77.9
89564	2007	12	1	9	15511	-52.7
89571	2011	04	1	9	15476	-55.0
89592	2011	05	3	14	15224	-61.7
89611	2011	03	1	9	15721	-48.8
89625	no	data	ever	received		
89642	2010	04	1	8	15518	-52.7
89662	no	data	ever	received		
89664	2011	03	3	7	15652	-45.5
94998	2011	02	1	9	16114	-51.5

Values for g equate to the following times being used to calculte the CLIMAT TEMP data:

1 = 0000 UTC

2 = 1200 UTC

3 = 0000 and 1200 UTC

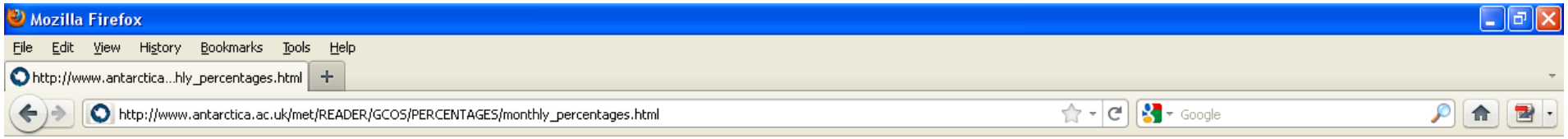
4 = 0600 UTC

5 = 1800 UTC

6 = 0600 and 1800 UTC

7 = 0000, 1200 and either 0600 or 1800 UTC

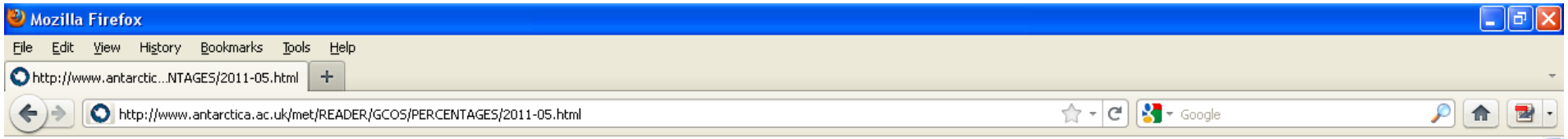
8 = 0600, 1800 and either 0000 or 1200 UTC



Percentage of SYNOPS for main synoptic hours received via the GTS (Global Telecommunication Systsm) 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							



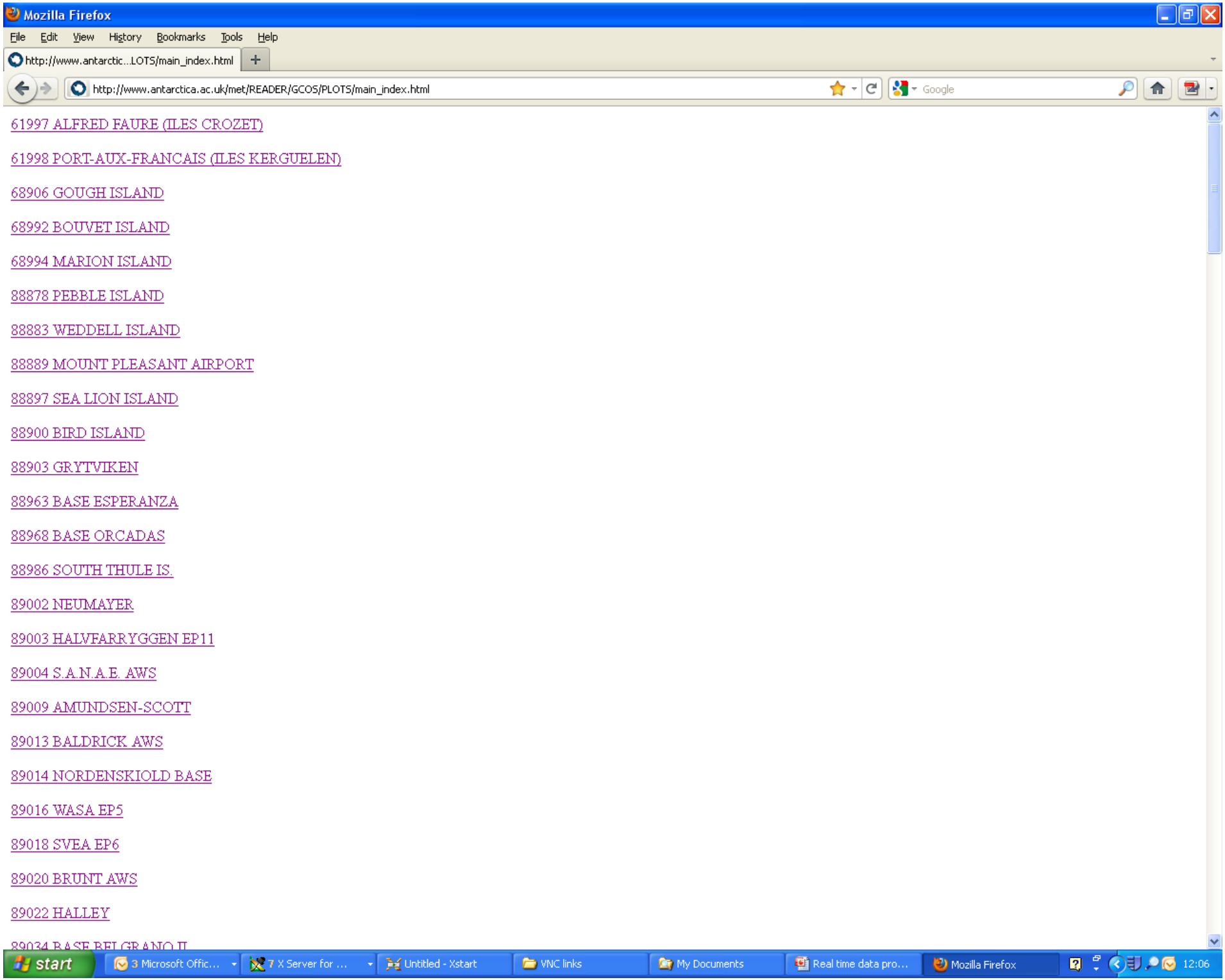
Percentage of SYNOPS for main synoptic hours

Received via the GTS at BAS for 2011 05

Values less than 80% are displayed in red

WMO Number	Percentage	Station name
20046	91	POLARGMO IM. E.T. KRENKELJA
20069	100	OSTROV VIZE
20087	100	OSTROV GOLOMJANNYJ
20292	99	GMO IM.E.K. FEDOROVA
20353	94	MYS ZELANIYA
20667	72	IM. M.V. POPOVA
20674	100	OSTROV DIKSON
20744	100	MALYE KARMAKULY
20891	100	HATANGA
21432	99	OSTROV KOTEL'NYJ
21802	100	SASKYLAH
21824	99	TIKSI
21908	98	DZALINDA
21921	99	KJUSJUR
21931	99	JUBILEJNAJA
21946	99	CHOKURDAH
21982	99	OSTROV VRANGELJA
23022	100	AMDERMA
23032	98	MARESALE
23058	100	ANTIPAJUTA
23074	100	DUDINKA
23242	99	NOVYJ PORT
23256	100	TAZOVSKOE
23274	100	IGARKA
23330	100	SALEHARD
23383	97	AGATA
23445	100	NADYM
23472	100	TURUHANSK
23552	100	TARKO-SALE
23631	100	BEREZOVO
23662	100	TOL'KA
23678	99	VERHNEIMBATSK
23724	100	NJAKSIMVOL'
23734	100	OKTJABR'SKOE
23849	100	SURGUT

89002	99	NEUMAYER
89003	95	HALVFARRYGGEN EP11
89004	84	S.A.N.A.E. AWS
89009	100	AMUNDSEN-SCOTT
89013	83	BALDRICK AWS
89014	5	NORDENSKIOLD BASE
89016	89	WASA EP5
89020	62	BRUNT AWS
89022	98	HALLEY
89034	98	BASE BELGRANO II
89049	97	AGO-2
89050	97	BELLINGSHAUSEN
89053	95	BASE JUBANY
89054	98	DINAMET-URUGUAY
89055	97	BASE MARAMBIO (CENTRO MET. ANTARTICO)
89056	97	CENTRO MET. ANTARTICO PDTE. EDUARDO FREI
89057	95	BASE ARTURO PRAT
89058	98	GREAT WALL
89059	95	BASE BERNARDO O'HIGGINS
89061	100	PALMER STATION
89062	91	ROTHERA
89063	97	VERNADSKY
89065	72	FOSSIL BLUFF
89066	96	BASE SAN MARTIN
89087	96	THIEL MOUNTAINS AWS
89108	98	UNIV. WI ID 8985 (HENRY)
89251	91	KING SEJONG
89257	83	UNIV. WI ID 8925 (LIMBERT AWS)
89262	74	UNIV. WI ID 8926 (LARSEN ICE SHELF)
89266	81	UNIV. WI ID 8902 (BUTLER ISLAND)
89272	82	UNIV. WI ID 8917 (SKY-BLU)
89314	99	UNIV. WI ID 21358 (THERESA)
89324	60	UNIV. WI ID 8903 (BYRD STATION)
89329	98	UNIV. WI (HARRY)
89332	97	UNIV. WI ID 21361 (ELIZABETH)
89345	60	UNIV. WI ID 8900 (SIPLE DOME)
89376	62	UNIV. WI ID 8911 (GILL)
89377	58	UNIV. WI ID 8908 (LETTAU)
89504	100	TROLL
89507	95	KOHNEN EP9
89512	99	NOVOLAZAREVSKAJA
89514	97	MAITRI
89528	83	AGO-3
89532	99	SYOWA
89564	99	MAWSON


Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://www.antarctic...LOTS/main_index.html
http://www.antarctica.ac.uk/met/READER/GCOS/PLOTS/main_index.html
Google
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 SVEA EP6
89020 BRUNT AWS
89022 HALLEY
89034 BASE BELGRANO II
start
3 Microsoft Offic...
7 X Server for ...
Untitled - Xstart
VNC links
My Documents
Real time data pro...
Mozilla Firefox
12:06

89004 (S.A.N.A.E. AWS) 2011 05 - Mozilla Firefox

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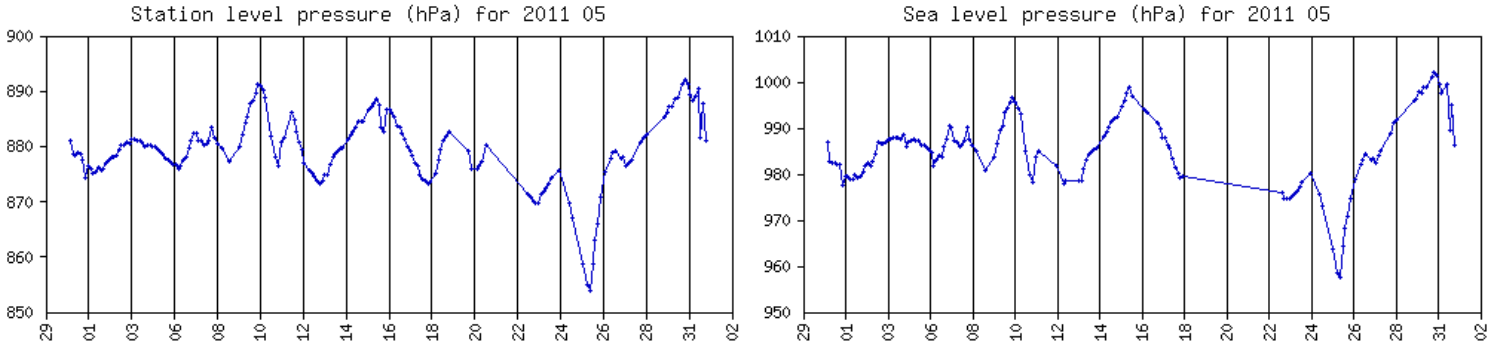
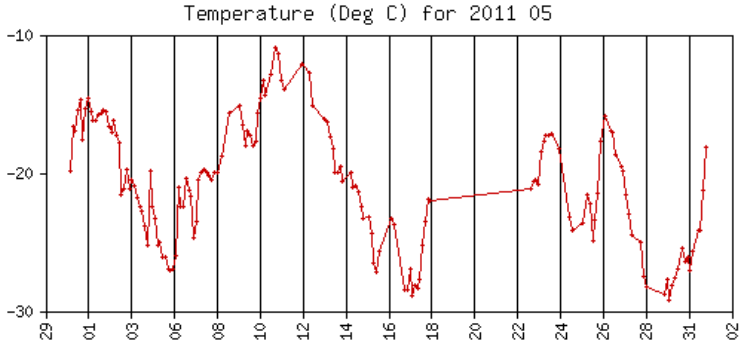
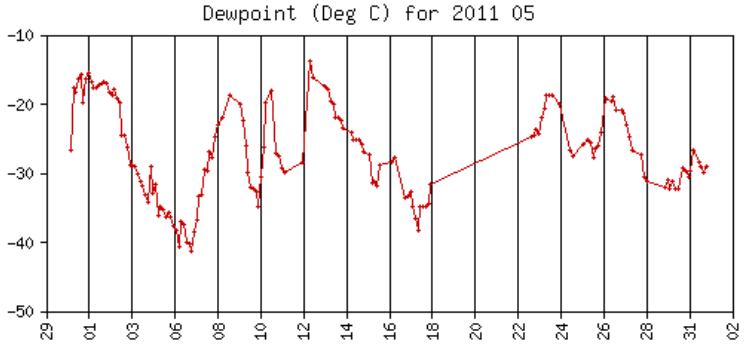
89004 (S.A.N.A.E. AWS) 2011 05

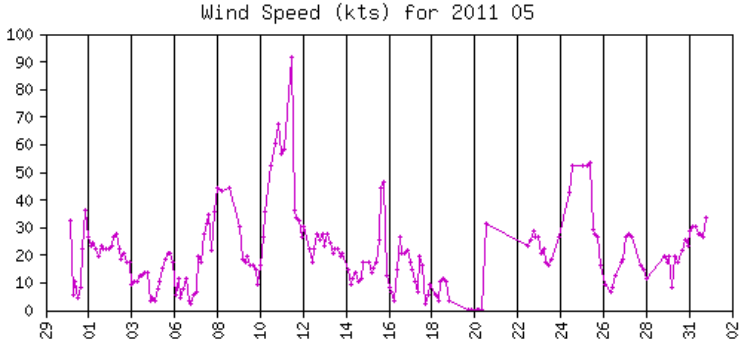
http://www.antarctica.ac.uk/met/READER/GCOS/PLOTS/index_89004.html

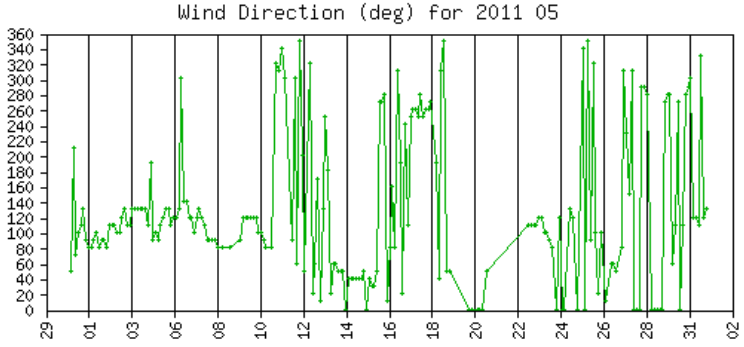
89004 (S.A.N.A.E. AWS) data for 2011 05











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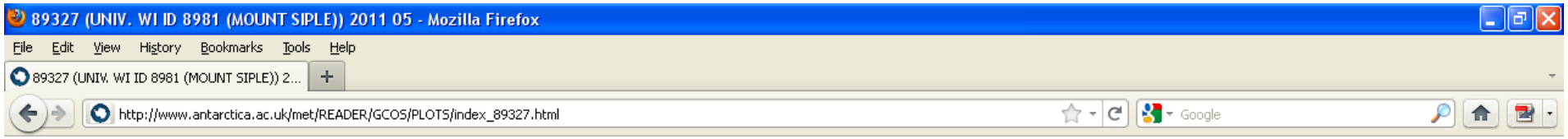


89327 (UNIV. WI ID 8981 (MOUNT SIPLE)) data for 2011 05

No data received

89062 (ROTHERA) 2011 05 - Mozilla Firefox

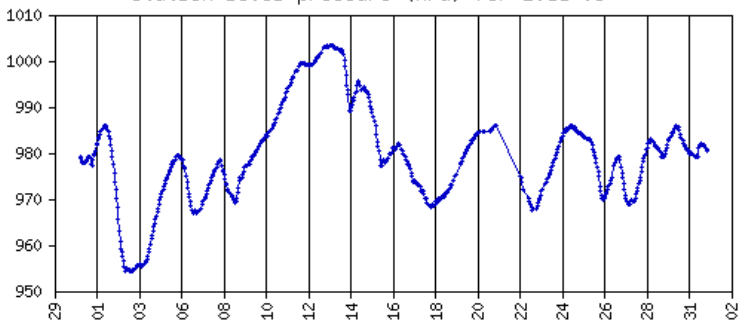
File Edit View History Bookmarks Tools Help

89062 (ROTHERA) 2011 05

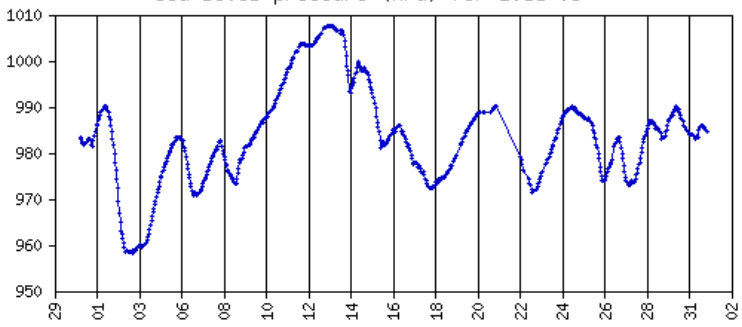
http://www.antarctica.ac.uk/met/READER/GCOS/PLOTS/index_89062.html

89062 (ROTHERA) data for 2011 05

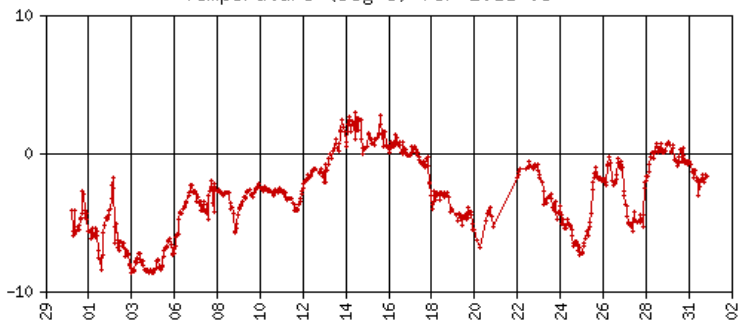
Station level pressure (hPa) for 2011 05



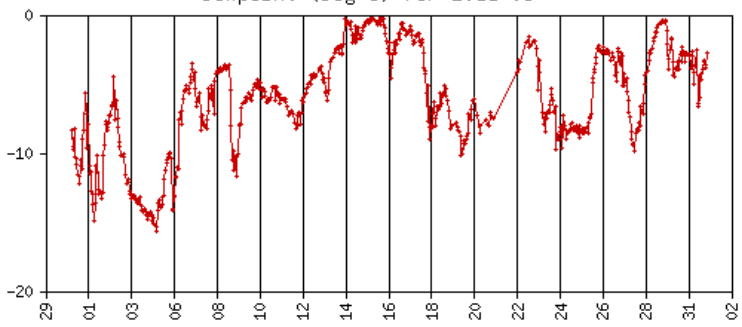
Sea level pressure (hPa) for 2011 05



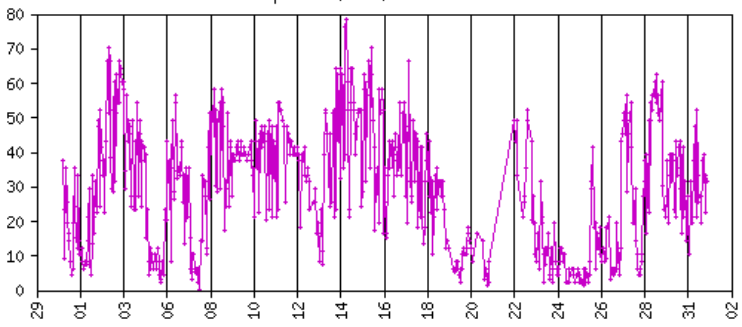
Temperature (Deg C) for 2011 05



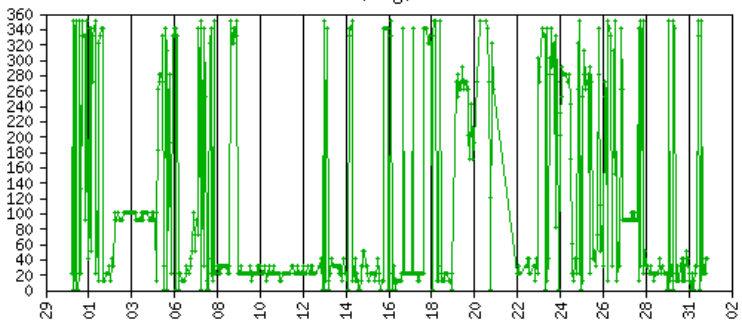
Dewpoint (Deg C) for 2011 05



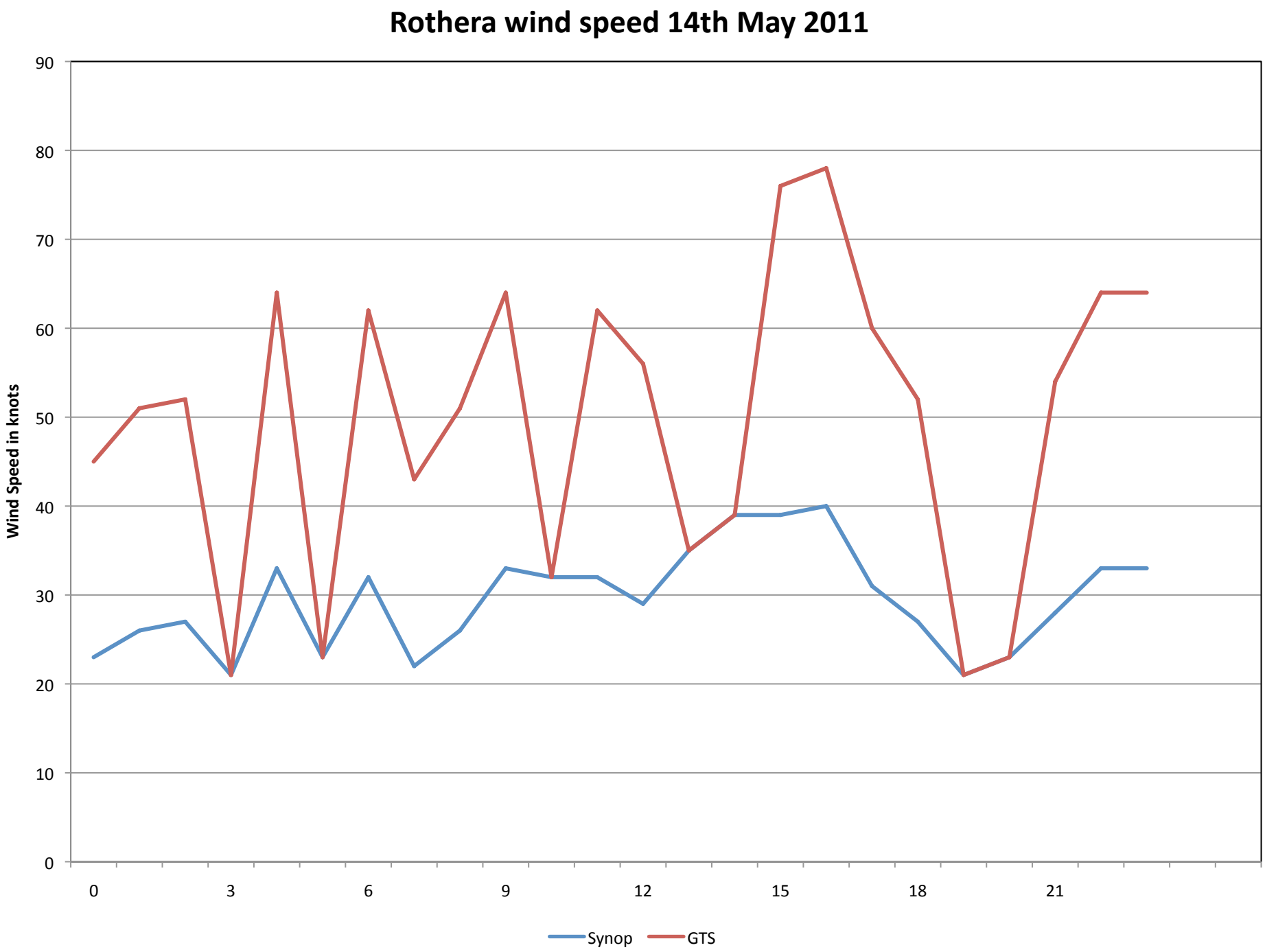
Wind Speed (kts) for 2011 05



Wind Direction (deg) for 2011 05



start | 3 Microsoft Offic... | 7 X Server for ... | Untitled - Xstart | VNC links | My Documents | Real time data pro... | 89062 (ROTHERA... | 12:07


Rothera wind speed 14th May 2011
Wind Speed in knots
90
80
70
60
50
40
30
20
10
0
0
3
6
9
12
15
18
21
Synop
GTS

Rothera SYNOP for 15UTC on 14th May

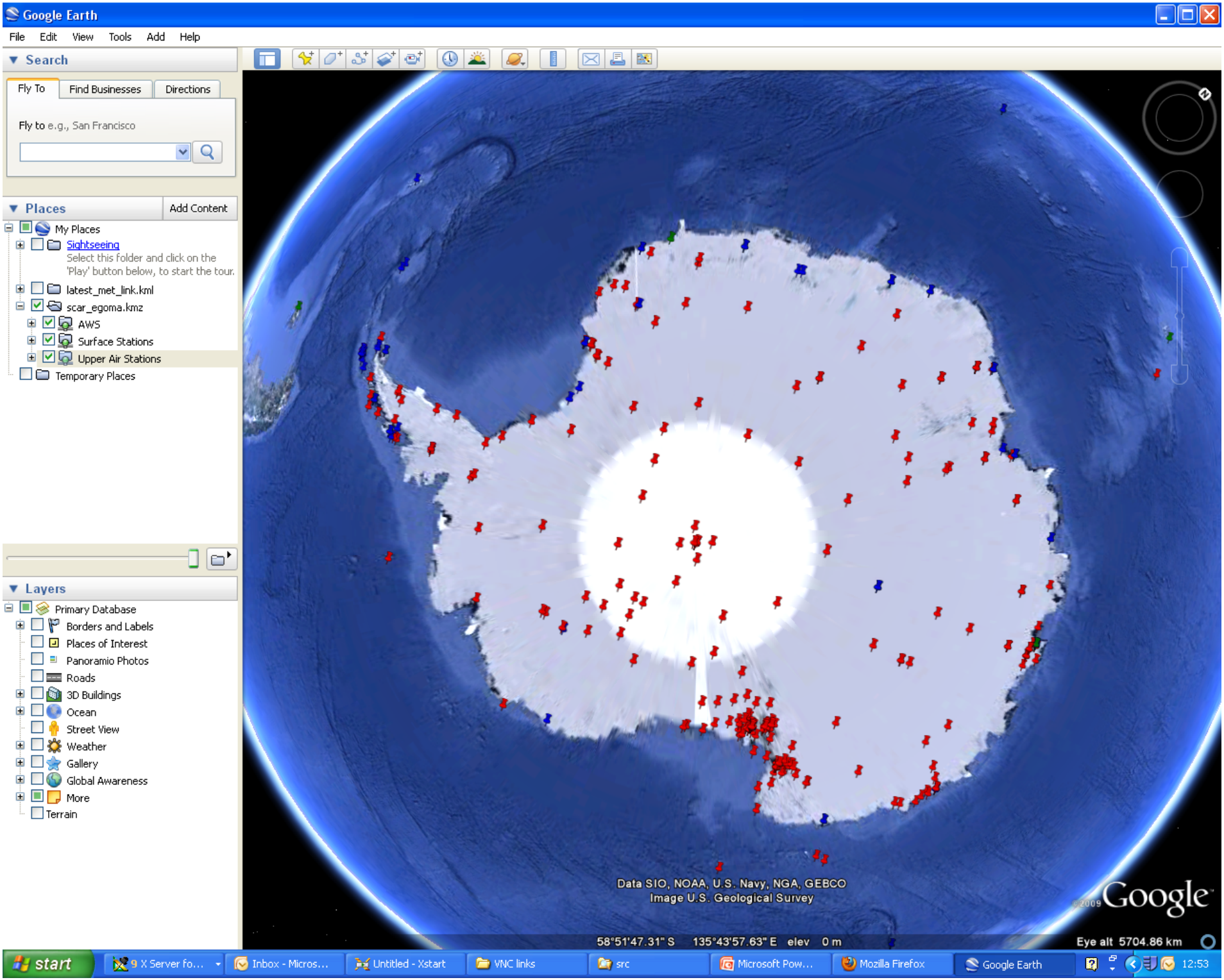
ZCZC 551
SIAA21 EGRR 141500
AAXX 14154
89062 41540 83439 10015 21006 39929 49970 52013 73963 85507
333 85615 87274=
NNNN

ZCZC 589
SIAA01 KWBC 141500 RRA
AAXX 14151
89062 41540 83439 10015 21006 39929 49970 52013 73963 85507 333
85615 87274=
NNNN

READER

- Reference Antarctic Data for Environmental Research
- To put together a data set, that is as complete and accurate as possible, of monthly mean surface and upper air data from stations south of 50°.

- Updating tables with data from national operators up to the end of 2010 in progress.
- British stations done.
- McMurdo and Amundsen Scott done.
- Neumayer done.
- Australian stations done.
- Syowa done to end of 2008.
- Still chasing French, Russian, Argentinean and Chilean data.


Google Earth
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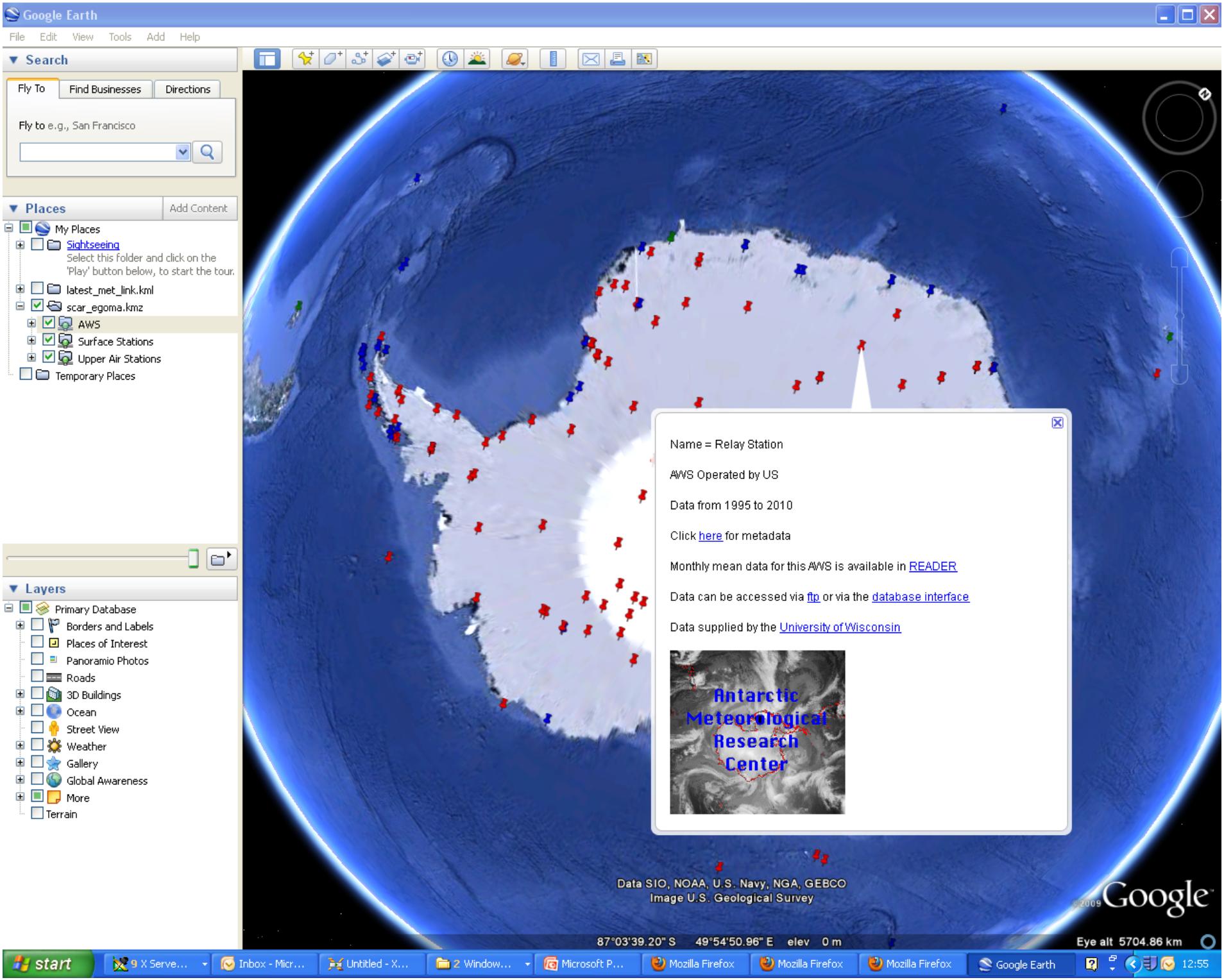
Search
Fly To
Find Businesses
Directions
Fly to e.g., San Francisco
Places
Add Content
My Places
Sightseeing
Select this folder and click on the 'Play' button below, to start the tour.
latest_met_link.kml
scar_egoma.kmz
AWS
Surface Stations
Upper Air Stations
Temporary Places
Layers
Primary Database
Borders and Labels
Places of Interest
Panoramio Photos
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
Global Awareness
More
Terrain
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
©2009 Google
58°51'47.31" S 135°43'57.63" E elev 0 m
Eye alt 5704.86 km
start
9 X Server fo...
Inbox - Micros...
Untitled - Xstart
VNC links
src
Microsoft Pow...
Mozilla Firefox
Google Earth
12:53


Google Earth
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Search
Fly To
Find Businesses
Directions
Fly to e.g., San Francisco
Places
Add Content
My Places
Sightseeing
Select this folder and click on the 'Play' button below, to start the tour.
latest_met_link.kml
scar_egoma.kmz
AWS
Surface Stations
Upper Air Stations
Temporary Places
Layers
Primary Database
Borders and Labels
Places of Interest
Panoramio Photos
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
Global Awareness
More
Terrain
Name = Relay Station
AWS Operated by US
Data from 1995 to 2010
Click here for metadata
Monthly mean data for this AWS is available in READER
Data can be accessed via ftp or via the database interface
Data supplied by the University of Wisconsin
Antarctic Meteorological Research Center
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
©2009 Google
87°03'39.20" S 49°54'50.96" E elev 0 m
Eye alt 5704.86 km
start
9 X Serve...
Inbox - Micr...
Untitled - X...
2 Window...
Microsoft P...
Mozilla Firefox
Mozilla Firefox
Mozilla Firefox
Google Earth
12:55

Google Earth

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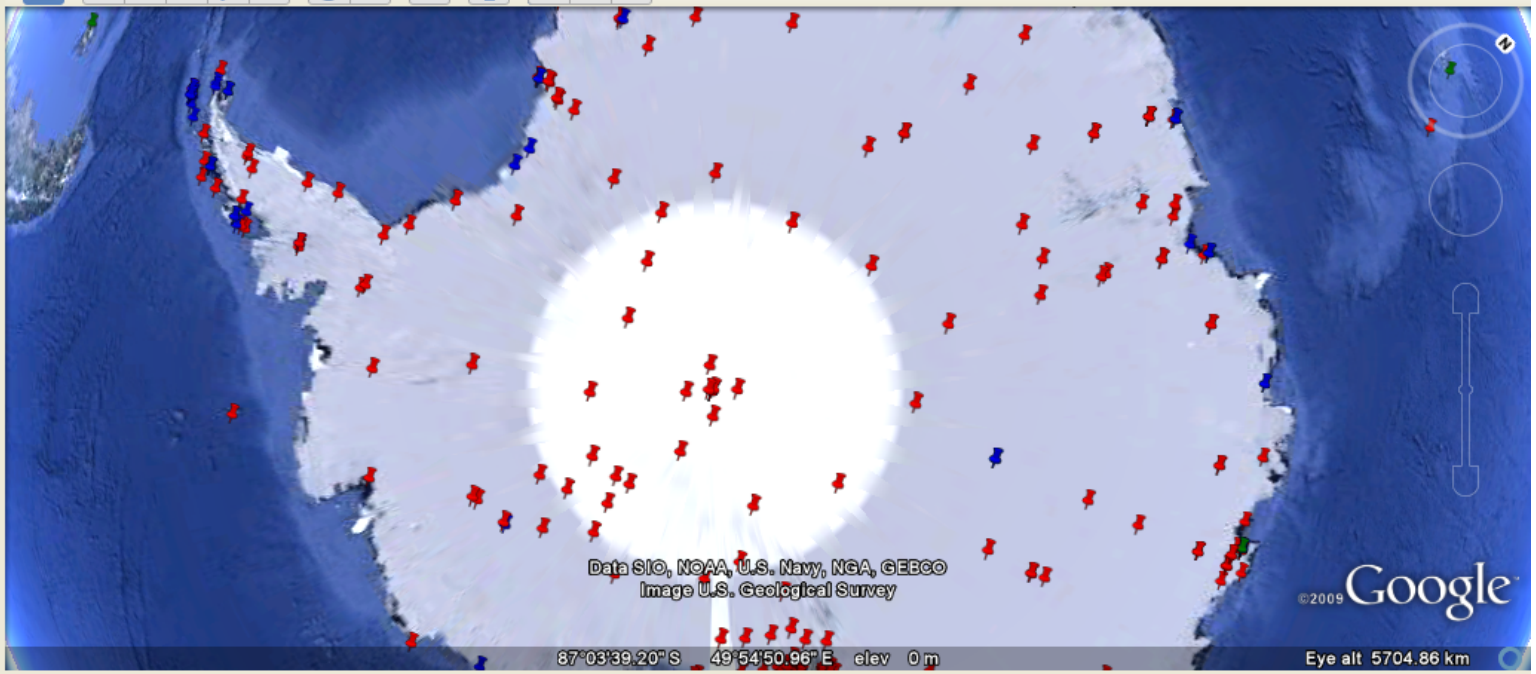
    - AWS
    - Surface Stations
    - Upper Air Stations
  - Temporary Places

Layers

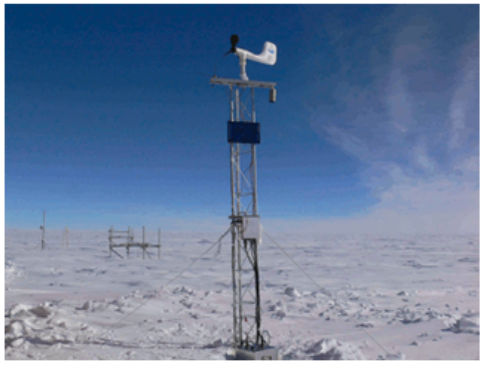
- Primary Database
  - Borders and Labels
  - Places of Interest
  - Panoramio Photos
  - Roads
  - 3D Buildings
  - Ocean
  - Street View
  - Weather
  - Gallery
  - Global Awareness
  - More
  - Terrain



http://amrc.ssec.wisc.edu/aws/relaystationmain.html

Text Version

Antarctic Projects
Home
What's New
Real-Time Data
FTP Site
Meetings
People
Photo Gallery
FAQ's
Additional Links
Contact Us



Relay Station AWS, Courtesy of Dr. Takao Kameda - Click to Enlarge

Relay Station

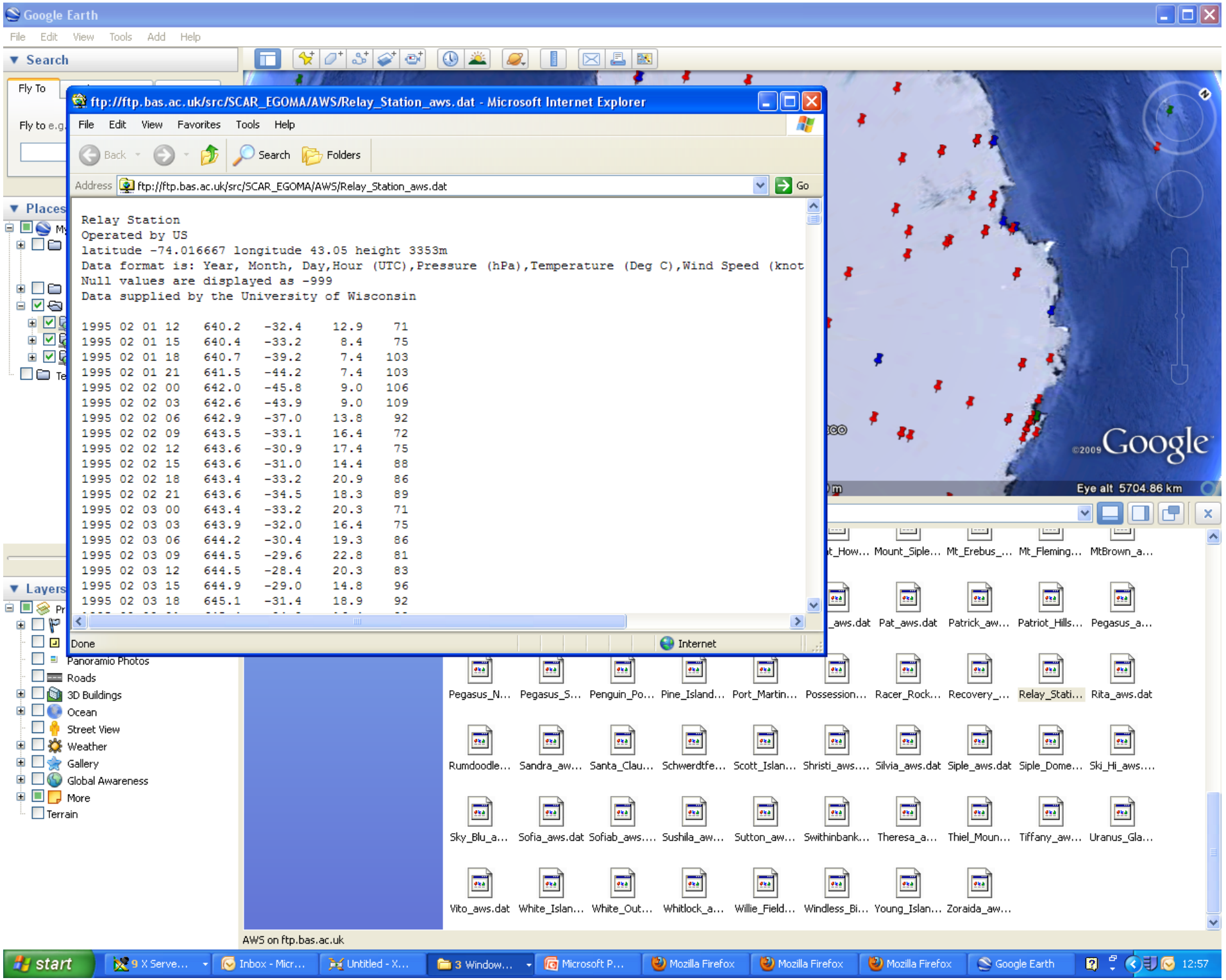
ARGOS ID
8918

Status: Installed and Functioning

WMO Number	89744

Automatic Weather Stations - Relay Station AWS

start | 9 X Serve... | Inbox - Micr... | Untitled - X... | 2 Window... | Microsoft P... | Mozilla Firefox | Mozilla Firefox | Mozilla Firefox | Google Earth | 12:56


Google Earth
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Search
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Fly to e.g.
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Layers
Panoramio Photos
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
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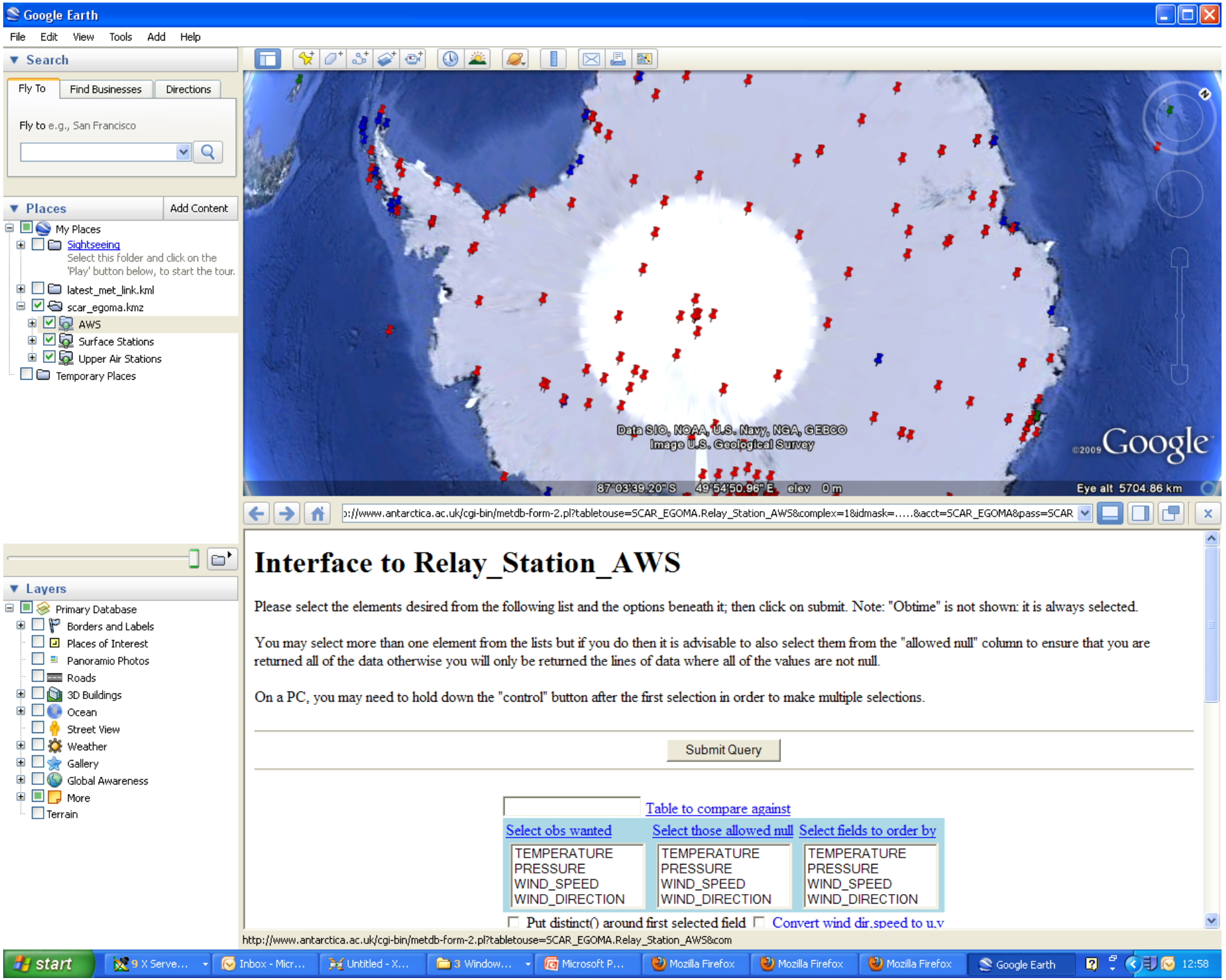
Terrain
ftp://ftp.bas.ac.uk/src/SCAR_EGOMA/AWS/Relay_Station_aws.dat - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Folders
Address ftp://ftp.bas.ac.uk/src/SCAR_EGOMA/AWS/Relay_Station_aws.dat
Go
Relay Station
Operated by US
latitude -74.016667 longitude 43.05 height 3353m
Data format is: Year, Month, Day,Hour (UTC),Pressure (hPa),Temperature (Deg C),Wind Speed (knot
Null values are displayed as -999
Data supplied by the University of Wisconsin
1995 02 01 12 640.2 -32.4 12.9 71
1995 02 01 15 640.4 -33.2 8.4 75
1995 02 01 18 640.7 -39.2 7.4 103
1995 02 01 21 641.5 -44.2 7.4 103
1995 02 02 00 642.0 -45.8 9.0 106
1995 02 02 03 642.6 -43.9 9.0 109
1995 02 02 06 642.9 -37.0 13.8 92
1995 02 02 09 643.5 -33.1 16.4 72
1995 02 02 12 643.6 -30.9 17.4 75
1995 02 02 15 643.6 -31.0 14.4 88
1995 02 02 18 643.4 -33.2 20.9 86
1995 02 02 21 643.6 -34.5 18.3 89
1995 02 03 00 643.4 -33.2 20.3 71
1995 02 03 03 643.9 -32.0 16.4 75
1995 02 03 06 644.2 -30.4 19.3 86
1995 02 03 09 644.5 -29.6 22.8 81
1995 02 03 12 644.5 -28.4 20.3 83
1995 02 03 15 644.9 -29.0 14.8 96
1995 02 03 18 645.1 -31.4 18.9 92
Done
Internet
©2009 Google
Eye alt 5704.86 km
Mount_Siple...
Mt_Erebus_...
Mt_Fleming...
MtBrown_a...
Pat_aws.dat
Patrick_aw...
Patriot_Hills...
Pegasus_a...
Pegasus_N...
Pegasus_S...
Penguin_Po...
Pine_Island...
Port_Martin...
Possession...
Racer_Rock...
Recovery_...
Relay_Stati...
Rita_aws.dat
Rumdoodle...
Sandra_aw...
Santa_Clau...
Schwerdtfe...
Scott_Islan...
Shristi_aws....
Silvia_aws.dat
Siple_aws.dat
Siple_Dome...
Ski_Hi_aws....
Sky_Blu_a...
Sofia_aws.dat
Sofiab_aws....
Sushila_aw...
Sutton_aw...
Swithinbank...
Theresa_a...
Thiel_Moun...
Tiffany_aw...
Uranus_Gla...
Vito_aws.dat
White_Islan...
White_Out...
Whitlock_a...
Willie_Field...
Windless_Bi...
Young_Islan...
Zoraida_aw...
AWS on ftp.bas.ac.uk
start
12:57


Google Earth
File Edit View Tools Add Help
Search
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Directions
Fly to e.g., San Francisco
Places
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latest_met_link.kml
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AWS
Surface Stations
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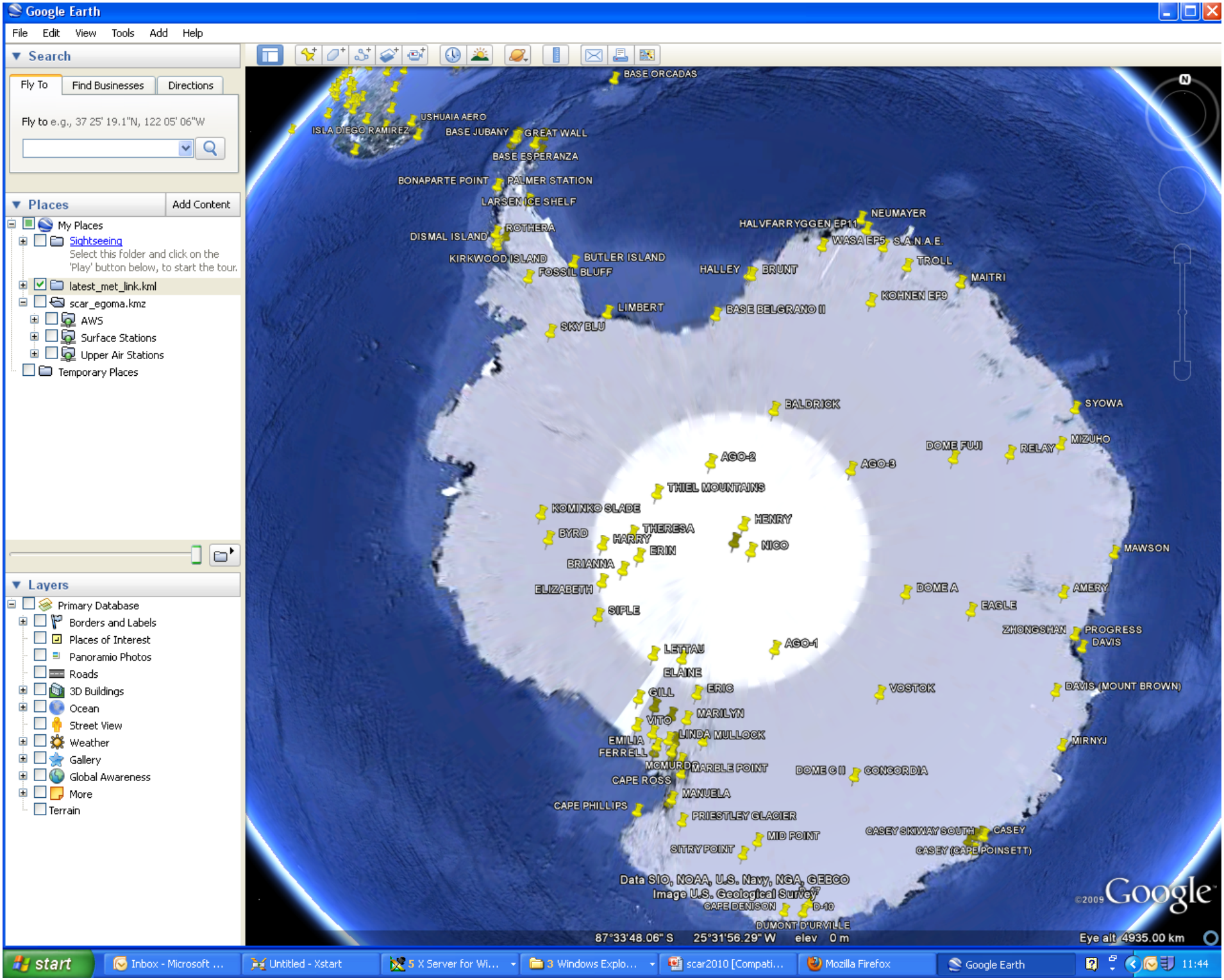
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
Global Awareness
More
Terrain
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
©2009 Google
87°03'39.20" S 49°54'50.96" E elev 0 m
Eye alt 5704.86 km
Interface to Relay_Station_AWS
Please select the elements desired from the following list and the options beneath it; then click on submit. Note: "Obtime" is not shown: it is always selected.
You may select more than one element from the lists but if you do then it is advisable to also select them from the "allowed null" column to ensure that you are returned all of the data otherwise you will only be returned the lines of data where all of the values are not null.
On a PC, you may need to hold down the "control" button after the first selection in order to make multiple selections.
Submit Query
Table to compare against
Select obs wanted
Select those allowed null
Select fields to order by
TEMPERATURE
PRESSURE
WIND_SPEED
WIND_DIRECTION
Put distinct() around first selected field
Convert wind dir,speed to u,v
http://www.antarctica.ac.uk/cgi-bin/metdb-form-2.pl?tabletouse=SCAR_EGOMA.Relay_Station_AWS&com
start
Google Earth
12:58

Future developments

- Setup an interface that will allow the used to enter a date period that they are interested in that will then produce a KMZ file for them that shows what locations have data for that period.
- Add information about other meteorological sensor networks like cloud base recorders, radiation sensors, present weather detectors, visibility sensors and sun photometers.


Google Earth
File Edit View Tools Add Help
Search
Fly To
Find Businesses
Directions
Fly to e.g., 37 25' 19.1"N, 122 05' 06"W
Places
Add Content
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Panoramio Photos
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
Global Awareness
More
Terrain
BASE ORCADAS
USHUAIA AERO
ISLA DIEGO RAMIREZ
BASE JUBANY
GREAT WALL
BASE ESPERANZA
BONAPARTE POINT
PALMER STATION
LARSEN ICE SHELF
DISMAL ISLAND
ROTHERA
KIRKWOOD ISLAND
BUTLER ISLAND
FOSSIL BLUFF
LIMBERT
SKY BLU
HALVFARRYGGEN EP11
NEUMAYER
WASA EP5
S.A.N.A.E.
HALLEY
BRUNT
TROLL
MAITRI
KOHNEN EP9
BASE BELGRANO II
BALDRICK
SYOWA
DOME FUJI
RELAY
MIZUHO
AGO-2
AGO-3
THIEL MOUNTAINS
KOMINKO SLADE
HENRY
THERESA
BYRD
HARRY
NICO
ERIN
MAWSON
BRIANNA
ELIZABETH
DOME A
AMERY
EAGLE
SIPLE
ZHONGSHAN
PROGRESS
DAVIS
LETTAU
AGO-1
ELAINE
GILL
ERIC
VOSTOK
DAVIS (MOUNT BROWN)
MARILYN
VITO
LINDA MULLOCK
EMILIA
FERRELL
MIRNYJ
MCMURDO
MARBLE POINT
DOME C II
CONCORDIA
CAPE ROSS
MANUELA
CAPE PHILLIPS
PRIESTLEY GLACIER
CASEY SKIWAY SOUTH
CASEY
MID POINT
SITRY POINT
CASEY (CAPE POINSETT)
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
CAPE DENISON
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DUMONT D'URVILLE
©2009 Google
87°33'48.06" S 25°31'56.29" W elev 0 m
Eye alt 4935.00 km
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Inbox - Microsoft ...
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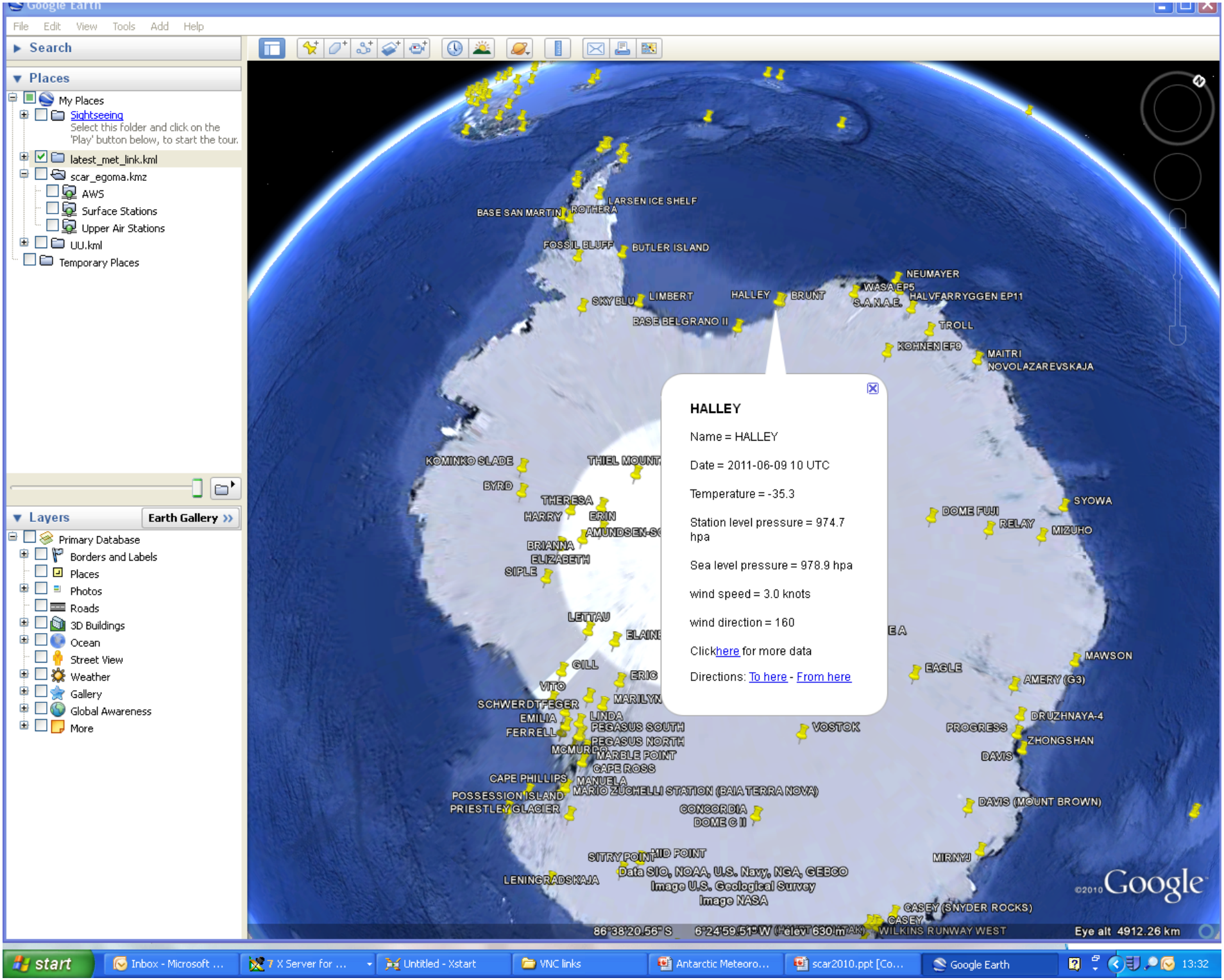
Google Earth
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Sightseeing
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latest_met_link.kml
scar_egoma.kmz
AWS
Surface Stations
Upper Air Stations
UU.kml
Temporary Places
Layers
Earth Gallery
Primary Database
Borders and Labels
Places
Photos
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
Global Awareness
More
HALLEY
Name = HALLEY
Date = 2011-06-09 10 UTC
Temperature = -35.3
Station level pressure = 974.7 hpa
Sea level pressure = 978.9 hpa
wind speed = 3.0 knots
wind direction = 160
Clickhere for more data
Directions: To here - From here
LARSEN ICE SHELF
BASE SAN MARTIN
ROTHERA
FOSSIL BLUFF
BUTLER ISLAND
NEUMAYER
WASA EP5
S.A.N.A.E.
HALVFARRYGGEN EP11
SKY BLU
LIMBERT
HALLEY
BRUNT
BASE BELGRANO II
TROLL
KOHNEN EP9
MAITRI
NOVOLAZAREVSKAJA
KOMINKO SLADE
THIEL MOUNT
BYRD
THERESA
HARRY
ERIN
AMUNDSEN-SC
BRIANNA
ELIZABETH
SIPLE
LETTAU
ELAINE
GILL
ERIC
VITO
SCHWERDTFEGER
MARILYN
EMILIA
LINDA
FERRELL
PEGASUS SOUTH
PEGASUS NORTH
MCMURDO
MARBLE POINT
CAPE ROSS
CAPE PHILLIPS
MANUELA
MARIO ZUCHELLI STATION (BAIA TERRA NOVA)
POSSESSION ISLAND
PRIESTLEY GLACIER
CONCORDIA
DOME C II
VOSTOK
DOME FUJI
SYOWA
RELAY
MIZUHO
EAGLE
MAWSON
AMERY (G3)
PROGRESS
DRUZHNAYA-4
ZHONGSHAN
DAVIS
DAVIS (MOUNT BROWN)
MIRNYJ
CASEY (SNYDER ROCKS)
CASEY
WILKINS RUNWAY WEST
SITRY POINT
MID POINT
LENINGRADSKAJA
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
Image NASA
©2010 Google
86°38'20.56" S 6°24'59.51" W (Elevt 630 m AK)
Eye alt 4912.26 km
start
Inbox - Microsoft ...
X Server for ...
Untitled - Xstart
VNC links
Antarctic Meteoro...
scar2010.ppt [Co...
Google Earth
13:32

Google Earth

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Search

Fly To | Find Businesses | Directions

Fly to e.g., 37 25' 19.1"N, 122 05' 06"W

Places

My Places
- Sightseeing
  Select this folder and click on the 'Play' button below, to start the tour.
- latest_met_link.kml
- scar_egoma.kmz
  - AWS
  - Surface Stations
  - Upper Air Stations
- UU.kml
- Temporary Places

Layers | Earth Gallery »

- Primary Database
  - Borders and Labels
  - Places
  - Photos
  - Roads
  - 3D Buildings
  - Ocean
  - Street View
  - Weather
  - Gallery
  - Global Awareness
  - More

« Back to Google Earth http://www.antarctica.ac.uk/met/metlog/latest-met/89022.latest-met.html - Open in Firefox

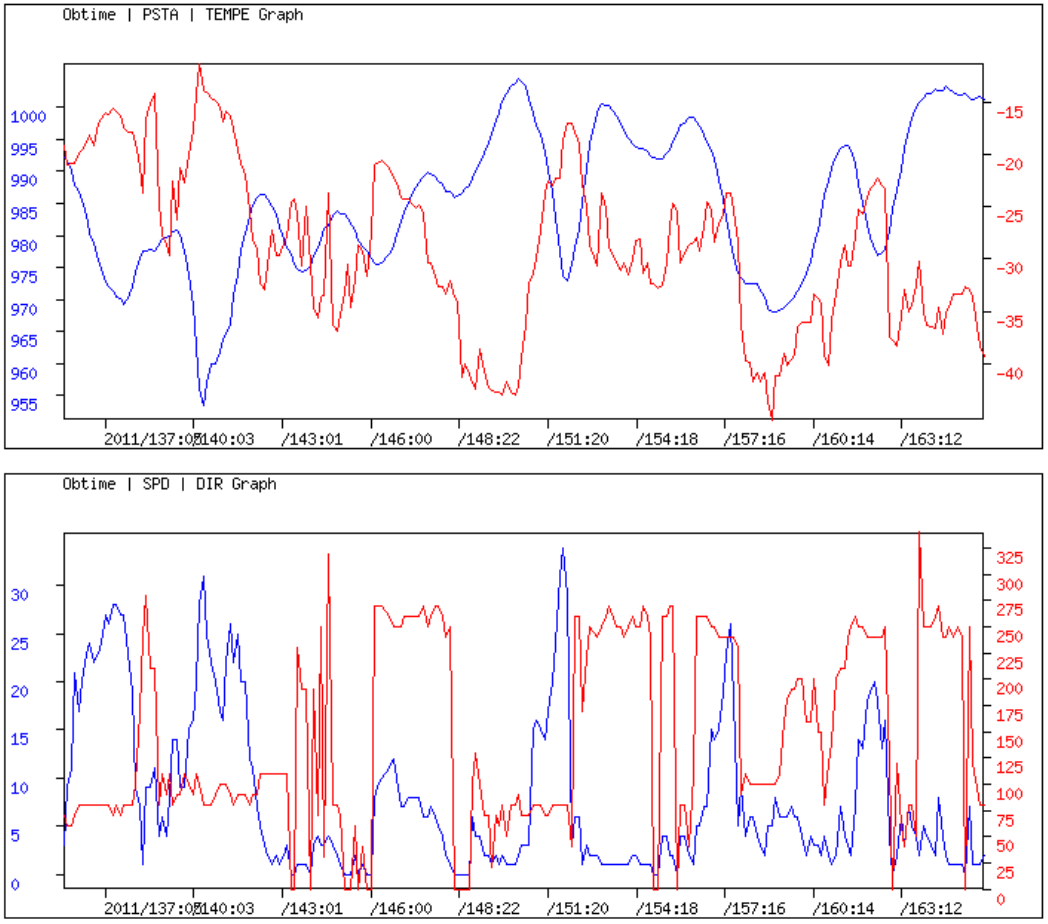
- No weather info

Actual Synoptic Report:

```
AAXX 15064 89022 46/// /0802 11394 21434 30012 40056 57005
```

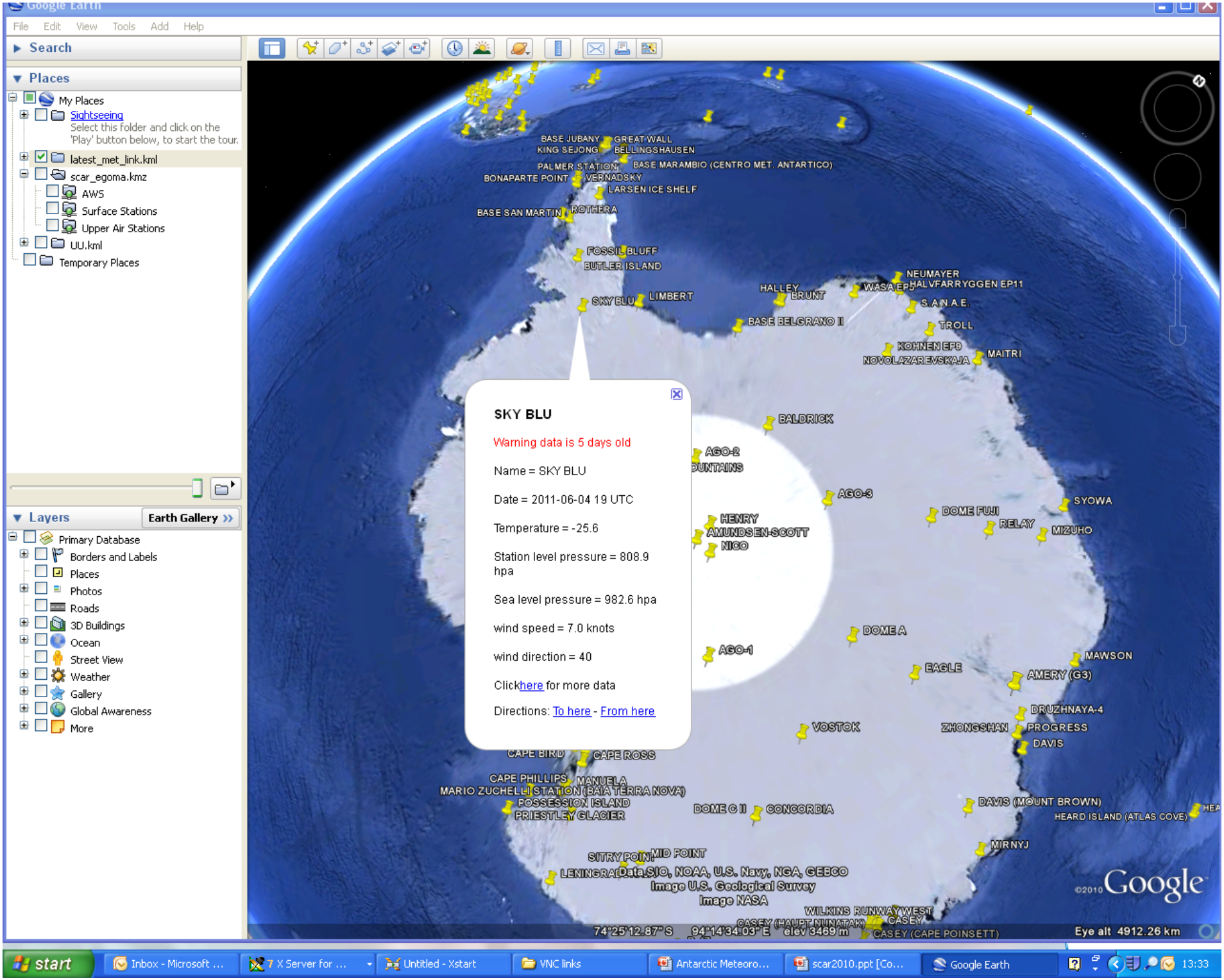
Link to last 30 reports | Metlog Home | Clickable Map | How is the decoding done?

Graph of station pressure (blue) and 1.5m temperature (red) and below that wind speed in knots (blue) and wind_direction (red). The last 240 3-hour reports are shown, which is probably about 240/24*3=1 month, for a well-behaved station.



Created by decode_lands.pl at Wed Jun 15 09:06:08 BST 2011

start | Inbox - Micros... | X Server F... | Untitled - Xstart | VNC links | My Documents | Antarctic Mete... | Mozilla Firefox | Google Earth | 09:20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Temporary Places
Layers
Earth Gallery
Primary Database
Borders and Labels
Places
Photos
Roads
3D Buildings
Ocean
Street View
Weather
Gallery
Global Awareness
More
SKY BLU
Warning data is 5 days old
Name = SKY BLU
Date = 2011-06-04 19 UTC
Temperature = -25.6
Station level pressure = 808.9 hpa
Sea level pressure = 982.6 hpa
wind speed = 7.0 knots
wind direction = 40
Clickhere for more data
Directions: To here - From here
BASE JUBANY
GREAT WALL
KING SEJONG
BELLINGSHAUSEN
PALMER STATION
BASE MARAMBIO (CENTRO MET. ANTARTICO)
BONAPARTE POINT
VERNADSKY
LARSEN ICE SHELF
BASE SAN MARTIN
ROTHERA
FOSSIL BLUFF
BUTLER ISLAND
SKY BLU
LIMBERT
HALLEY
BRUNT
NEUMAYER
HALVFARRYGGEN EP11
WASA EP5
S.A.N.A.E.
BASE BELGRANO II
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KOHNEN EP9
NOVOLAZAREVSKAJA
MAITRI
BALDRICK
AGO-2
AGO-3
SYOWA
DOME FUJI
RELAY
MIZUHO
HENRY
AMUNDSEN-SCOTT
NICO
DOME A
AGO-1
MAWSON
EAGLE
AMERY (G3)
DRUZHNAYA-4
VOSTOK
ZHONGSHAN
PROGRESS
DAVIS
CAPE BIRD
CAPE ROSS
CAPE PHILLIPS
MANUELA
MARIO ZUCCHELLI STATION (BAIA TERRA NOVA)
POSSESSION ISLAND
PRIESTLEY GLACIER
DOME C II
CONCORDIA
DAVIS (MOUNT BROWN)
HEARD ISLAND (ATLAS COVE)
MIRNYJ
SITRY POINT
MID POINT
LENINGRAD
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
Image NASA
WILKINS RUNWAY WEST
CASEY
CASEY (HAUPT NUNATAK)
CASEY (CAPE POINSETT)
©2010 Google
74°25'12.87" S 94°14'34.03" E elev 3469 m
Eye alt 4912.26 km
start
Inbox - Microsoft ...
7 X Server for ...
Untitled - Xstart
VNC links
Antarctic Meteoro...
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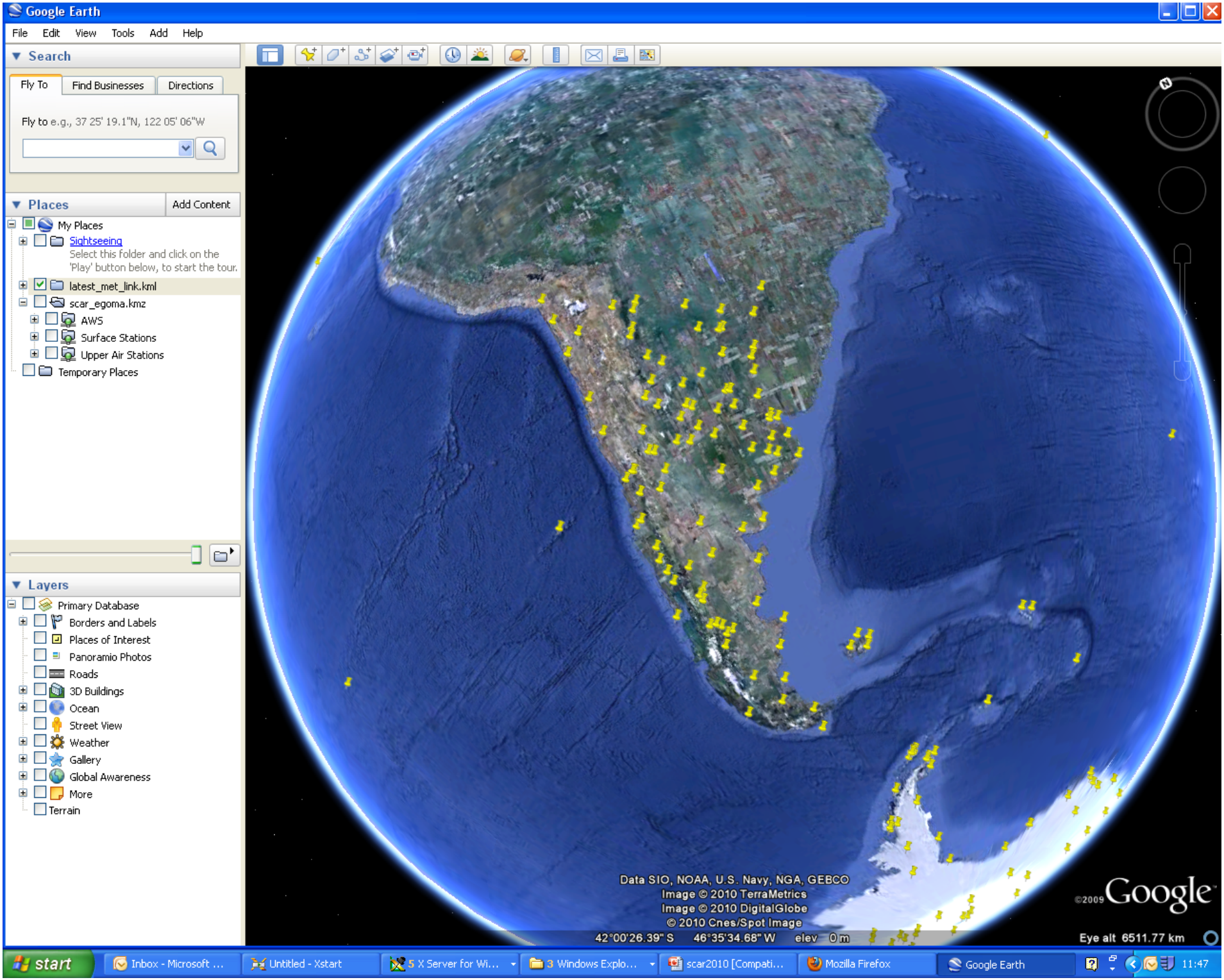
Google Earth
13:33


Google Earth
File Edit View Tools Add Help
Search
Fly To
Find Businesses
Directions
Fly to e.g., 37 25' 19.1"N, 122 05' 06"W
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Global Awareness
More
Terrain
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2010 TerraMetrics
Image © 2010 DigitalGlobe
© 2010 Cnes/Spot Image
42°00'26.39" S 46°35'34.68" W elev 0 m
©2009 Google
Eye alt 6511.77 km
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Inbox - Microsoft ...
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Google Earth
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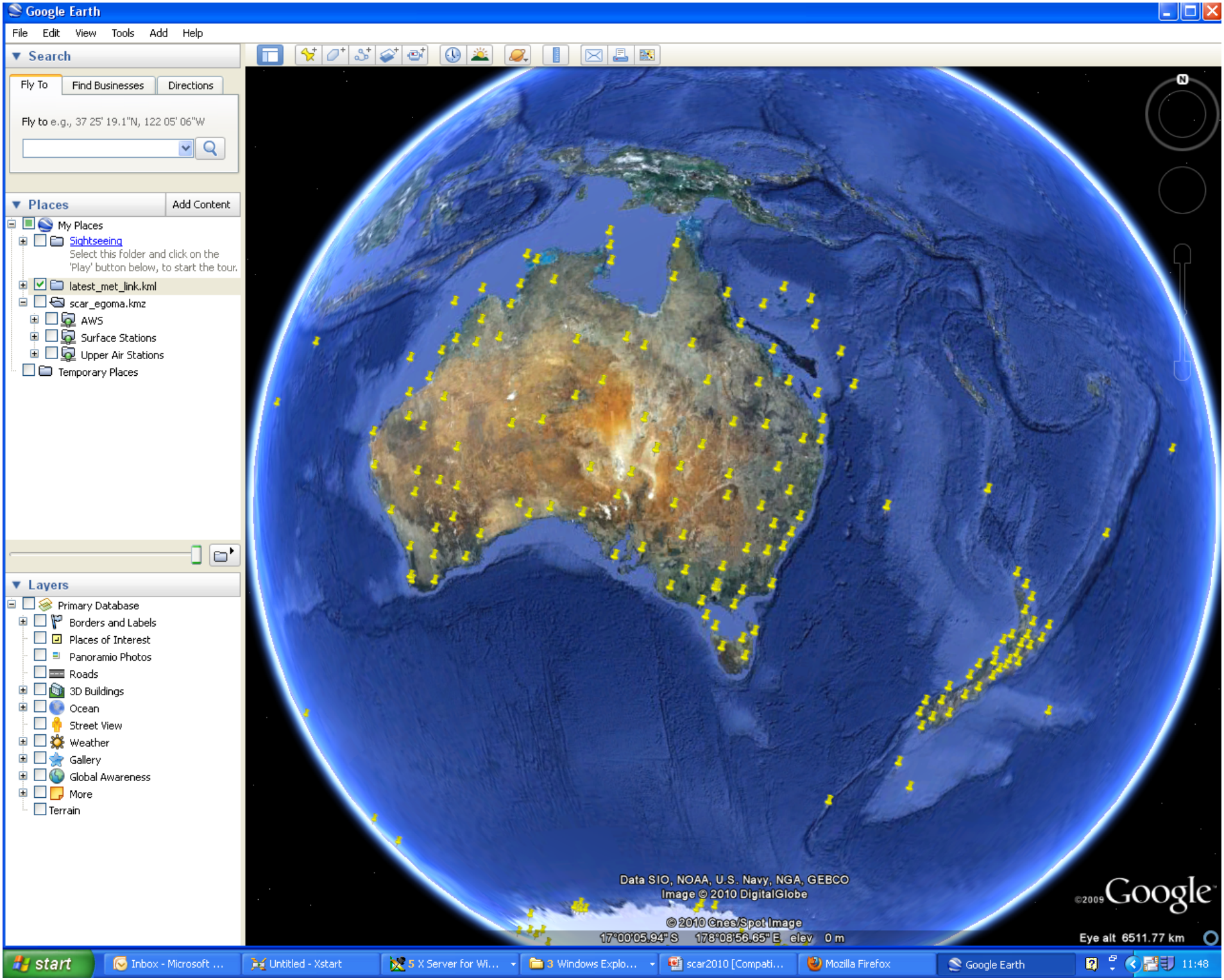
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Terrain
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Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2010 DigitalGlobe
© 2010 Cnes/Spot Image
17°00'05.94" S 178°08'56.65" E elev 0 m
©2009 Google
Eye alt 6511.77 km
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Untitled - Xstart
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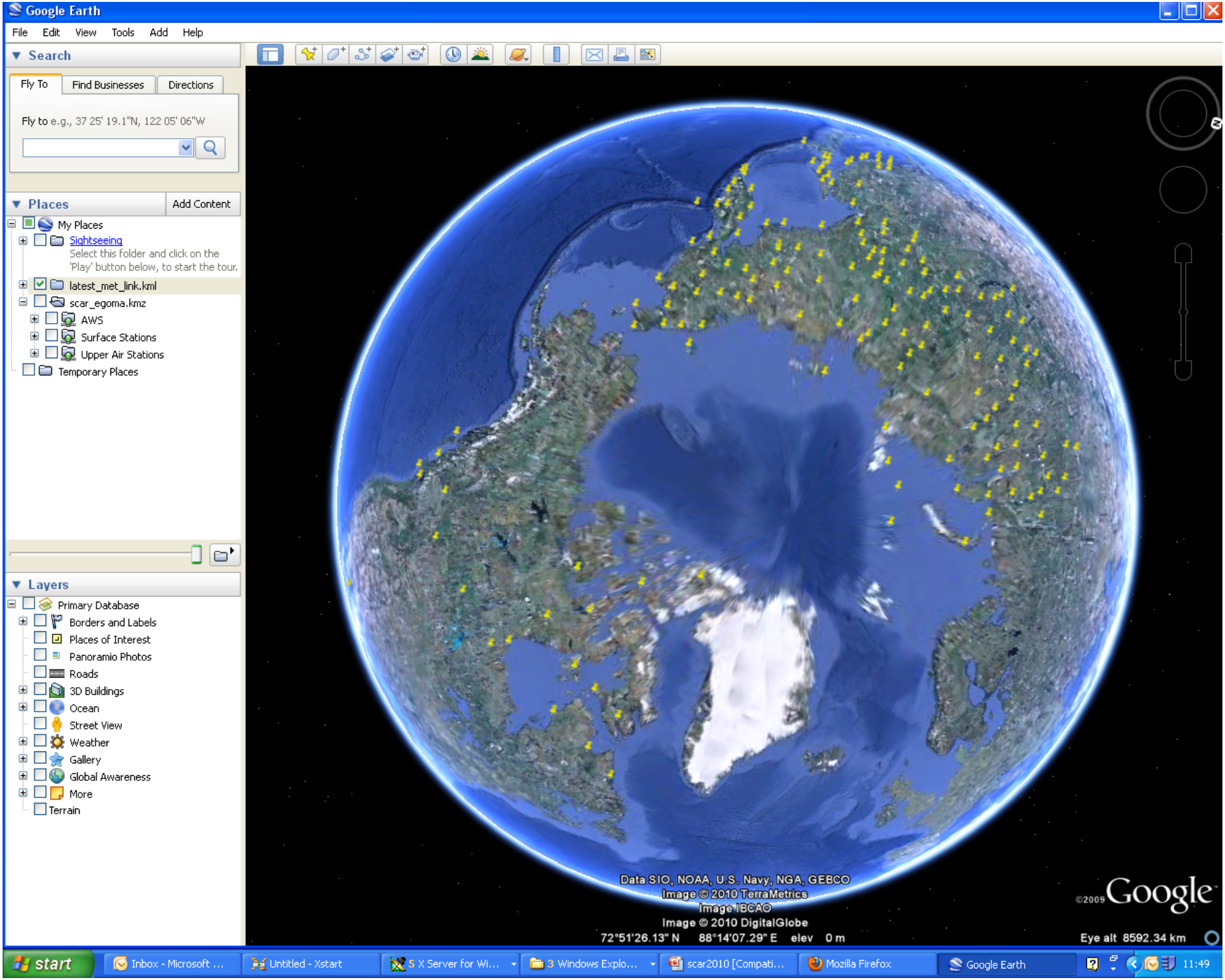
3 Windows Explo...
scar2010 [Compati...
Mozilla Firefox
Google Earth
11:48


Google Earth
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Weather
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Global Awareness
More
Terrain
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2010 TerraMetrics
Image IBCAO
Image © 2010 DigitalGlobe
72°51'26.13" N 88°14'07.29" E elev 0 m
©2009 Google
Eye alt 8592.34 km
start
Inbox - Microsoft ...
Untitled - Xstart
5 X Server for Wi...
3 Windows Explo...
scar2010 [Compati...
Mozilla Firefox
Google Earth
11:49

Questions

Steve Colwell

src@bas.ac.uk

BAS monitoring page

http://www.antarctica.ac.uk/met/jds/met/SCAR_oma.htm

READER

http://www.antarctica.ac.uk/met/READER/

Google Earth plugins

ftp://ftp.bas.ac.uk/src/SCAR_EGOMA/