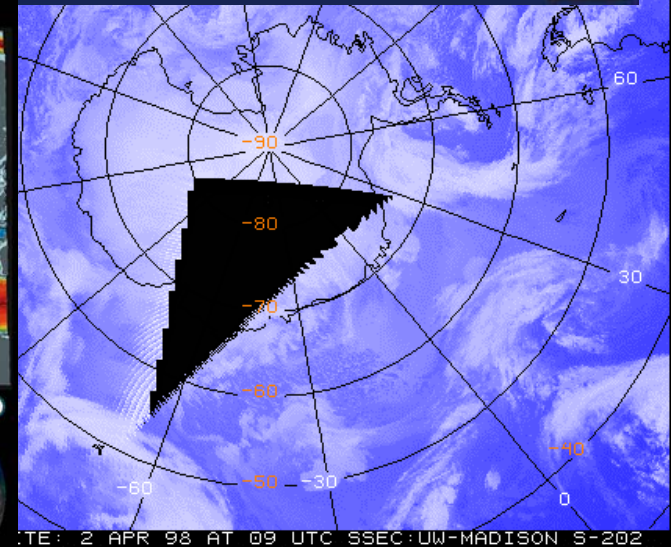
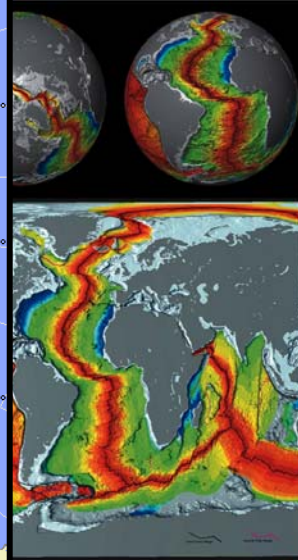


Existing Antarctic Content: Static Maps



Existing Antarctic Content: Mapservers

SCAR map of Antarctica - Microsoft Internet Explorer

Address: pfsavequery=true&rawmin=264460.532455&rawminy=2087710.757964&rawmax=264460.532455&rawmaxy=2087710.757964

Reference Map

Query Results

Name: Brimstone Peak
Code: BRM0
Ellipsoidal Height: 2084.360
Web Link: [Station Summary](#)
Latitude: S 75d 48m 00.91s
Longitude: E 158d 28m 07.63s

Results showing 9999 indicate no data available

For precise geodetic coordinates of these points please contact the [WG-GG Executive Officer](#)

USARC Atlas of Antarctic Science - Microsoft Internet Explorer

Address: http://usarc.usgs.gov/antarctic_atlas/start.html

USGS Atlas of Antarctic Research

MAP LAYERS

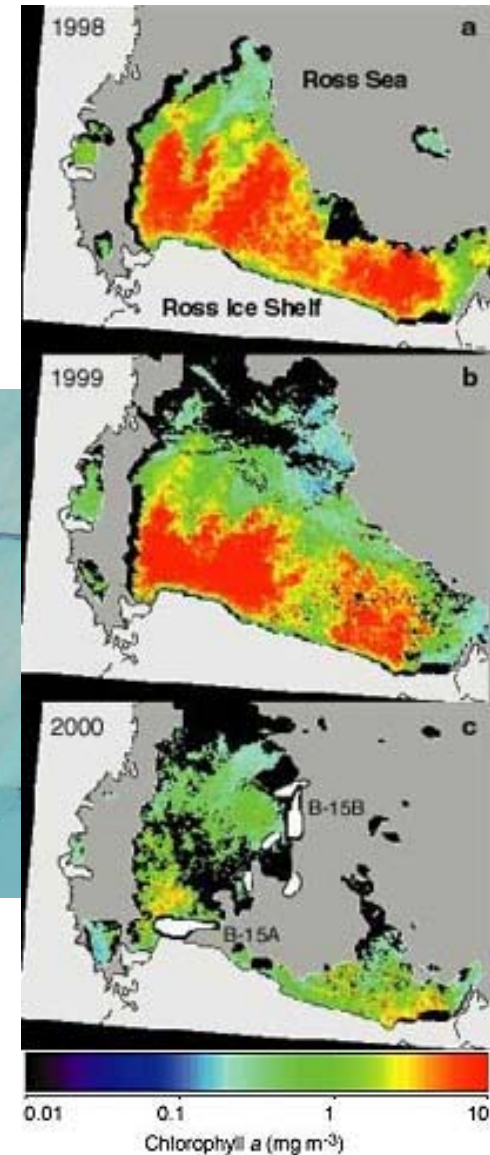
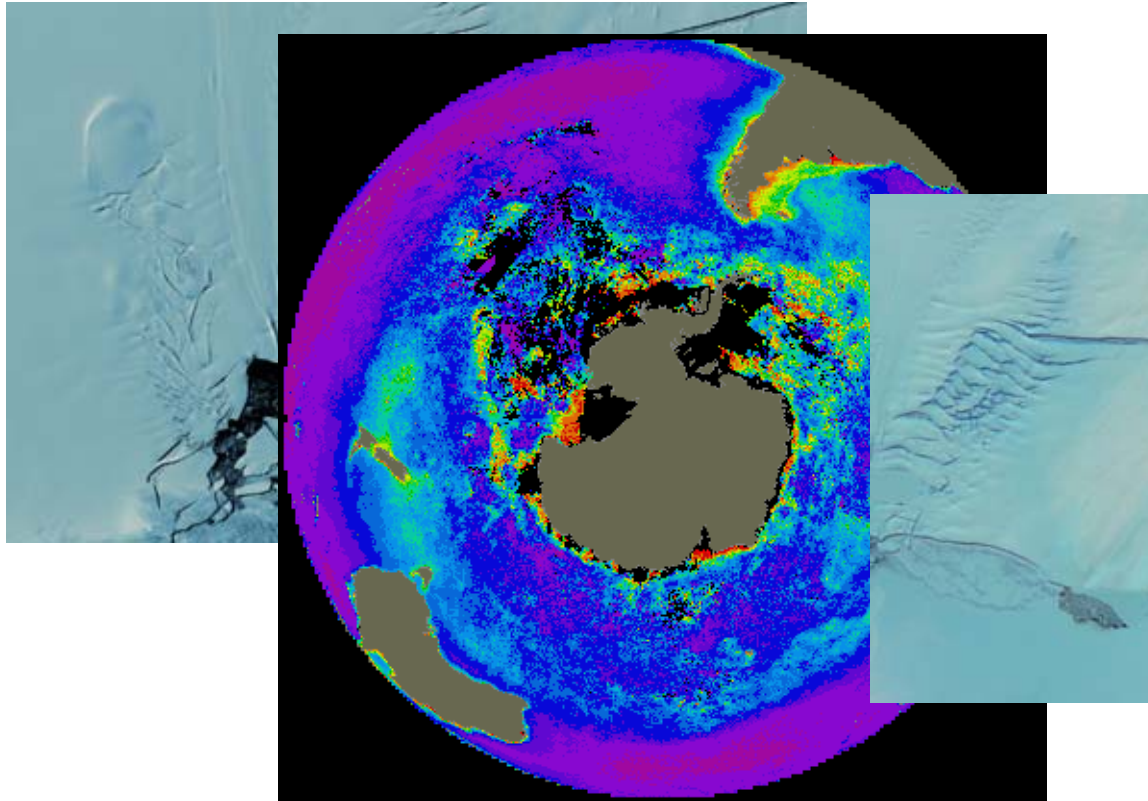
- Raster Graphic
- Rock Outcrops
- Sand/Gravel (Seymour Is. only)
- Manmade Structures (Seymour Is. only)
- Snow/Ice (Seymour Is. only)
- Lakes
- Contours
- Streams (Seymour Is. only)
- Spot Elevations
- USGS Complete Map Index
- Topographic Reconnaissance Maps (250,000-scale)
- Topographic Maps
- Satellite (TM) Image Maps
- Satellite (MSS) Image Maps
- Satellite (AVHRR) Image Maps

Resolution: Low High

Scale 1:217,846

start | 4 W... | Inbo... | 2 M... | ArcV... | Adob... | USA... | Wind... | Real... | 9:55 PM

Existing Antarctic Content: Satellite Imagery



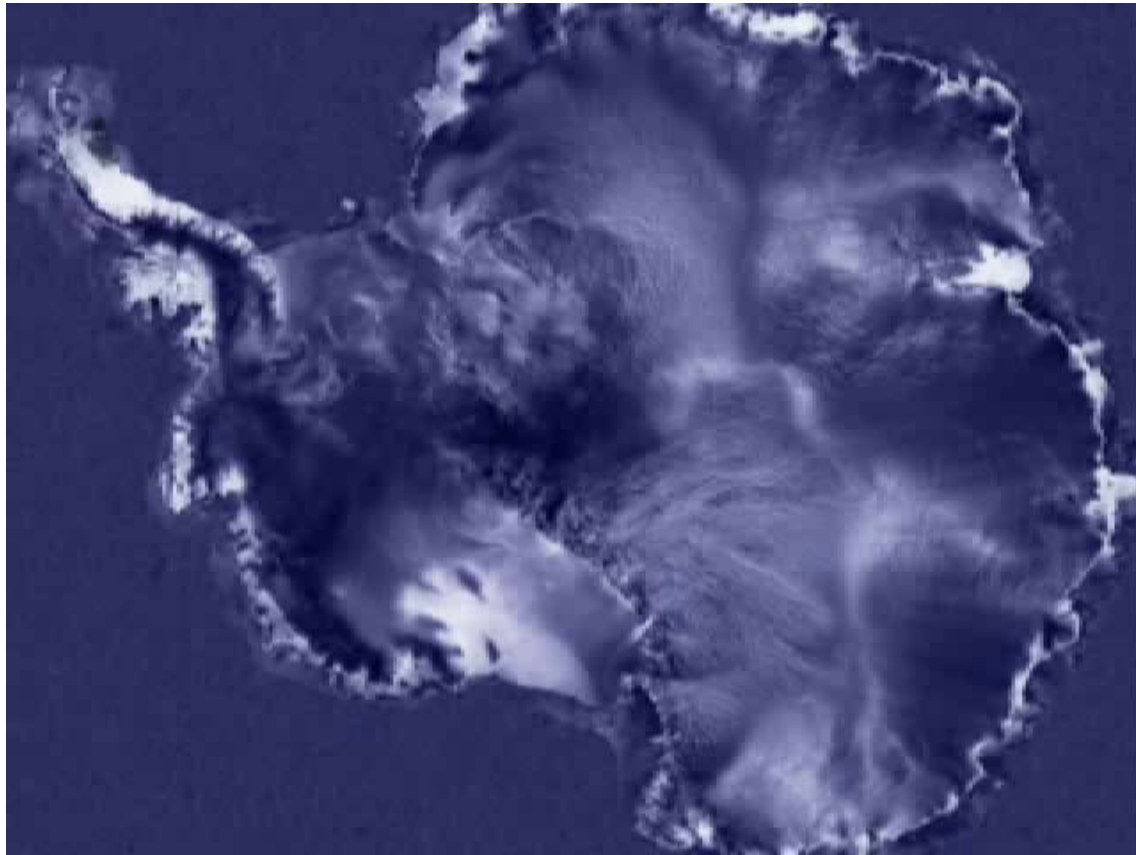
Existing Antarctic Content: Ground Truthing



Existing Antarctic Content: Imagery and Sounds



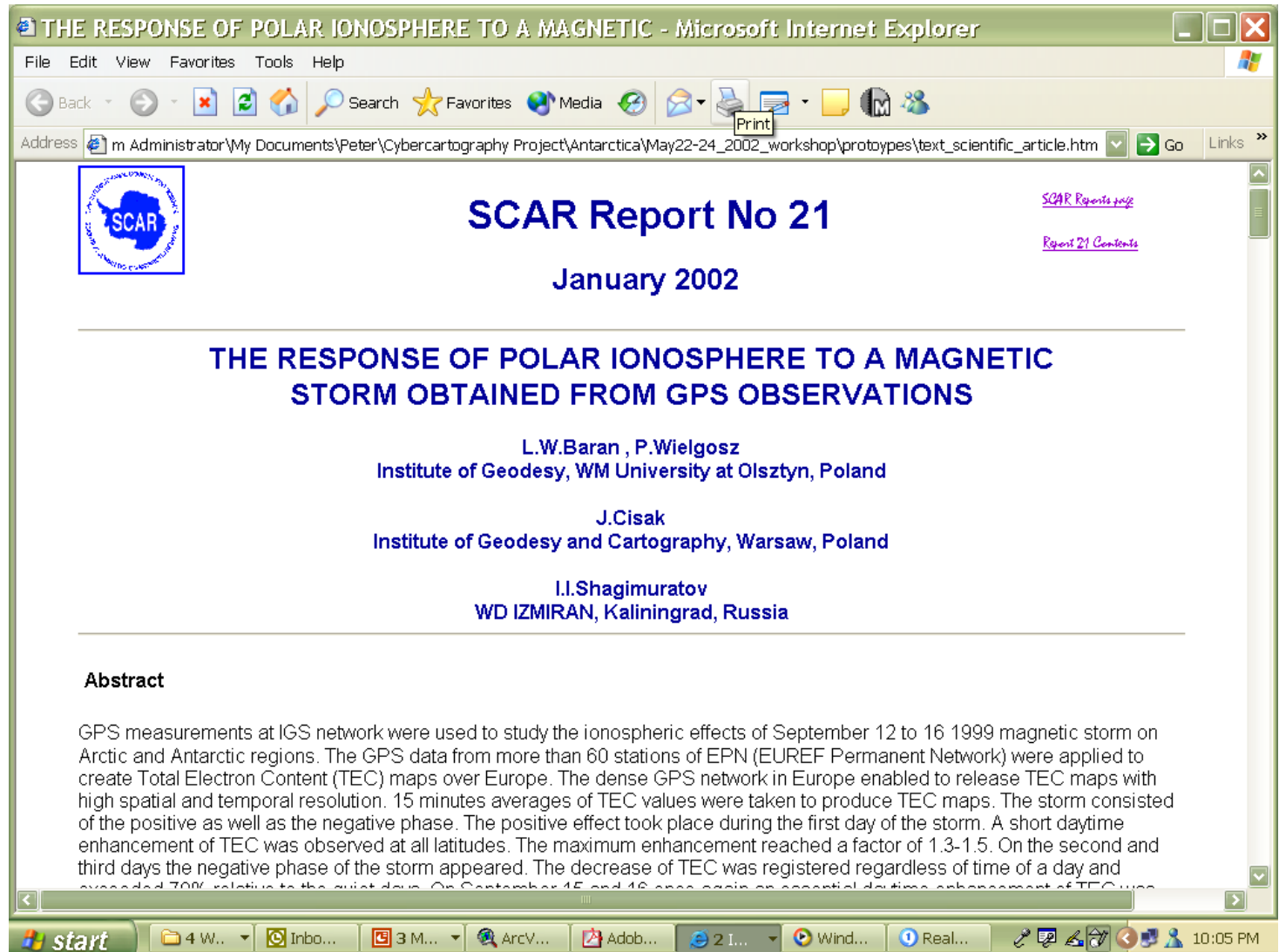
Existing Antarctic Content: Geographic Animations



Existing Antarctic Content: Process Animations



Existing Antarctic Content: Text




The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "THE RESPONSE OF POLAR IONOSPHERE TO A MAGNETIC - Microsoft Internet Explorer". The address bar shows the file path: "m Administrator\My Documents\Peter\Cybercartography Project\Antarctica\May22-24_2002_workshop\prototypes\text_scientific_article.htm". The main content area displays the SCAR logo on the left, which is a blue circle with a white map of Antarctica and the text "SCAR" and "SCIENTIFIC COMMITTEE ON RESEARCH IN ANTARCTICA". To the right of the logo, the title "SCAR Report No 21" is displayed in large blue font, with "January 2002" below it. Further right, there are two links: "SCAR Reports page" and "Report 21 Contents". Below this, the title of the report is centered: "THE RESPONSE OF POLAR IONOSPHERE TO A MAGNETIC STORM OBTAINED FROM GPS OBSERVATIONS". The authors are listed below: "L.W. Baran, P. Wielgosz" (Institute of Geodesy, WM University at Olsztyn, Poland), "J. Cisak" (Institute of Geodesy and Cartography, Warsaw, Poland), and "I.I. Shagimuratov" (WD IZMIRAN, Kaliningrad, Russia). Below the authors, the word "Abstract" is followed by a paragraph of text: "GPS measurements at IGS network were used to study the ionospheric effects of September 12 to 16 1999 magnetic storm on Arctic and Antarctic regions. The GPS data from more than 60 stations of EPN (EUREF Permanent Network) were applied to create Total Electron Content (TEC) maps over Europe. The dense GPS network in Europe enabled to release TEC maps with high spatial and temporal resolution. 15 minutes averages of TEC values were taken to produce TEC maps. The storm consisted of the positive as well as the negative phase. The positive effect took place during the first day of the storm. A short daytime enhancement of TEC was observed at all latitudes. The maximum enhancement reached a factor of 1.3-1.5. On the second and third days the negative phase of the storm appeared. The decrease of TEC was registered regardless of time of a day and exceeded 70% relative to the quiet day. On September 15 and 16 once again an essential daytime enhancement of TEC was observed." The Windows taskbar at the bottom shows the Start button, several open applications (4 W..., Inbo..., 3 M..., ArcV..., Adob..., 2 L..., Wind..., Real...), and the system clock showing 10:05 PM.

THE RESPONSE OF POLAR IONOSPHERE TO A MAGNETIC - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address m Administrator\My Documents\Peter\Cybercartography Project\Antarctica\May22-24_2002_workshop\prototypes\text_scientific_article.htm Go Links >>



SCAR Report No 21

January 2002

[SCAR Reports page](#)

[Report 21 Contents](#)

THE RESPONSE OF POLAR IONOSPHERE TO A MAGNETIC STORM OBTAINED FROM GPS OBSERVATIONS

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J. Cisak
Institute of Geodesy and Cartography, Warsaw, Poland

I.I. Shagimuratov
WD IZMIRAN, Kaliningrad, Russia

Abstract

GPS measurements at IGS network were used to study the ionospheric effects of September 12 to 16 1999 magnetic storm on Arctic and Antarctic regions. The GPS data from more than 60 stations of EPN (EUREF Permanent Network) were applied to create Total Electron Content (TEC) maps over Europe. The dense GPS network in Europe enabled to release TEC maps with high spatial and temporal resolution. 15 minutes averages of TEC values were taken to produce TEC maps. The storm consisted of the positive as well as the negative phase. The positive effect took place during the first day of the storm. A short daytime enhancement of TEC was observed at all latitudes. The maximum enhancement reached a factor of 1.3-1.5. On the second and third days the negative phase of the storm appeared. The decrease of TEC was registered regardless of time of a day and exceeded 70% relative to the quiet day. On September 15 and 16 once again an essential daytime enhancement of TEC was observed.

start 4 W... Inbo... 3 M... ArcV... Adob... 2 L... Wind... Real... 10:05 PM