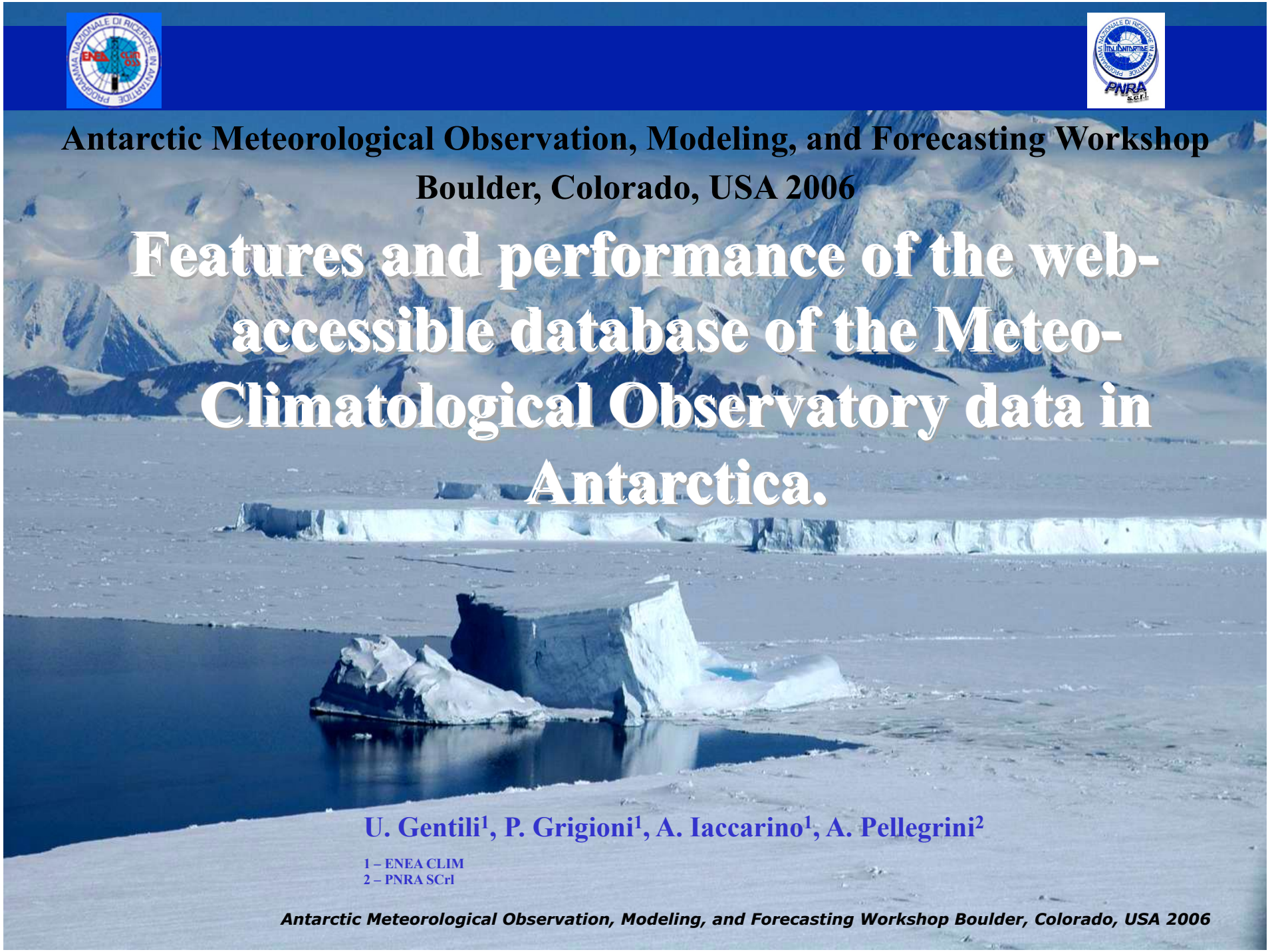


Antarctic Meteorological Observation, Modeling, and Forecasting Workshop

Boulder, Colorado, USA 2006

Features and performance of the web-accessible database of the Meteo-Climatological Observatory data in Antarctica.

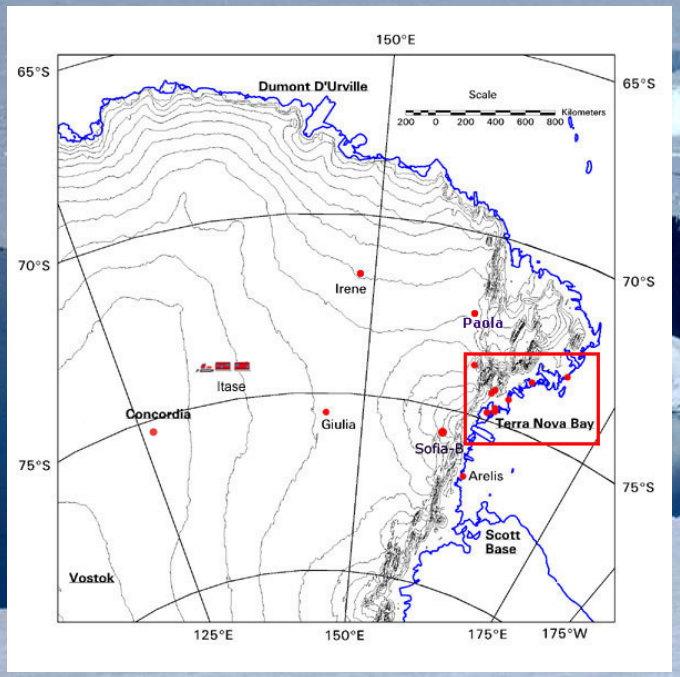
U. Gentili[1], P. Grigioni[1], A. Iaccarino[1], A. Pellegrini[2]

1 – ENEA CLIM
2 – PNRA SCrl

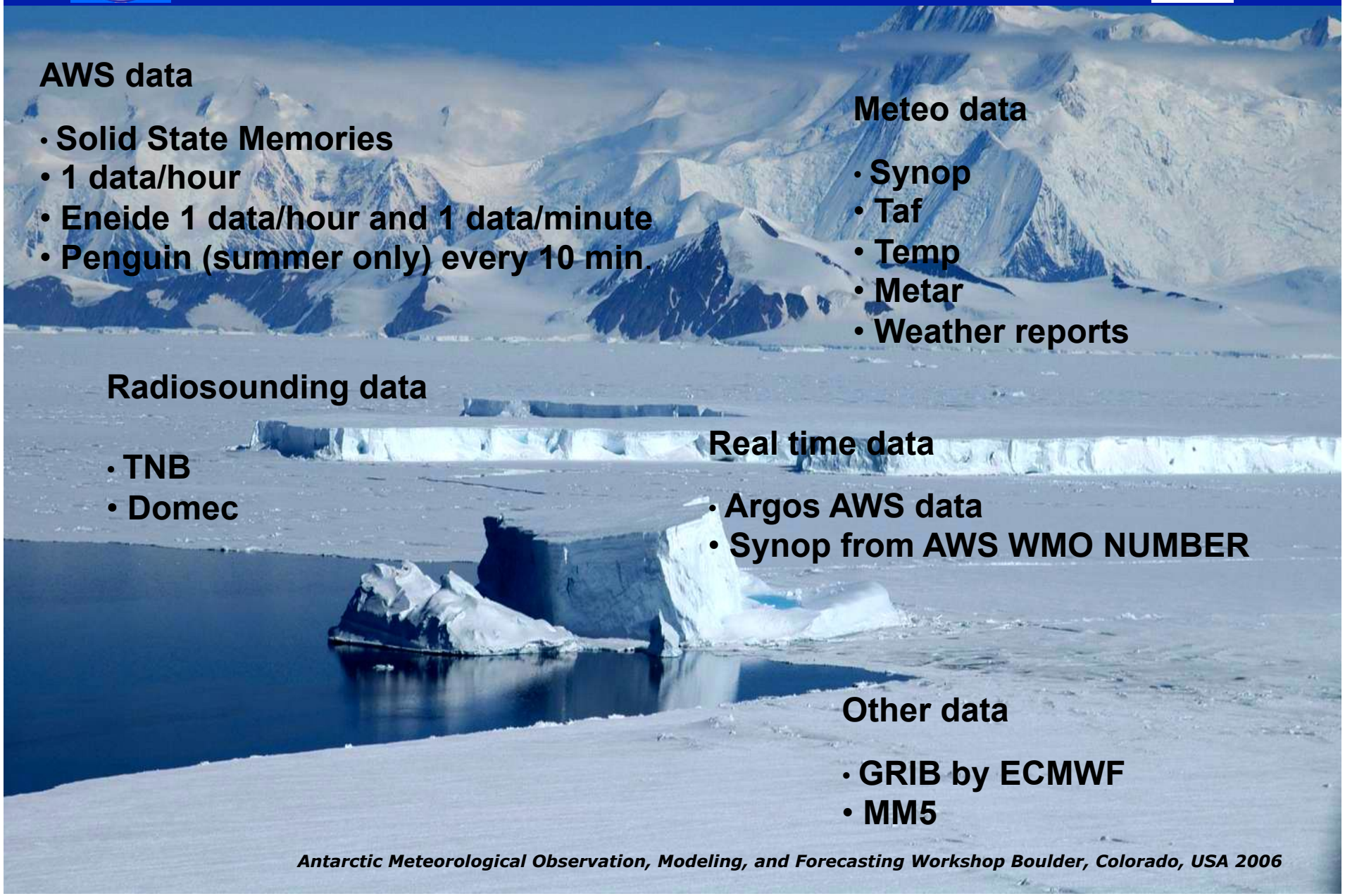
The Observatory

Since 1987

- 21 AWS
- 2 Radiosounding stations
- 4 Driftometers
- 1 ceilometer



Data



AWS data

- Solid State Memories
- 1 data/hour
- Eneide 1 data/hour and 1 data/minute
- Penguin (summer only) every 10 min.

Meteo data

- Synop
- Taf
- Temp
- Metar
- Weather reports

Radiosounding data

- TNB
- Domec

Real time data

- Argos AWS data
- Synop from AWS WMO NUMBER

Other data

- GRIB by ECMWF
- MM5

AWS

AWS

- Vaisala
- Milos 200 - eprom
- Milos 500 - flash

Sensors

- Temperature
- Relative Humidity
- Wind Speed
- Wind Direction
- Solar Radiation
- Snow depth

1 Access db /AWS = 30 MB/AWS

Radiosounding

One radiosounding/day at Dome C at 12:00 UTC

7.5 MB/month = 90 MB/year
1 Access db /year

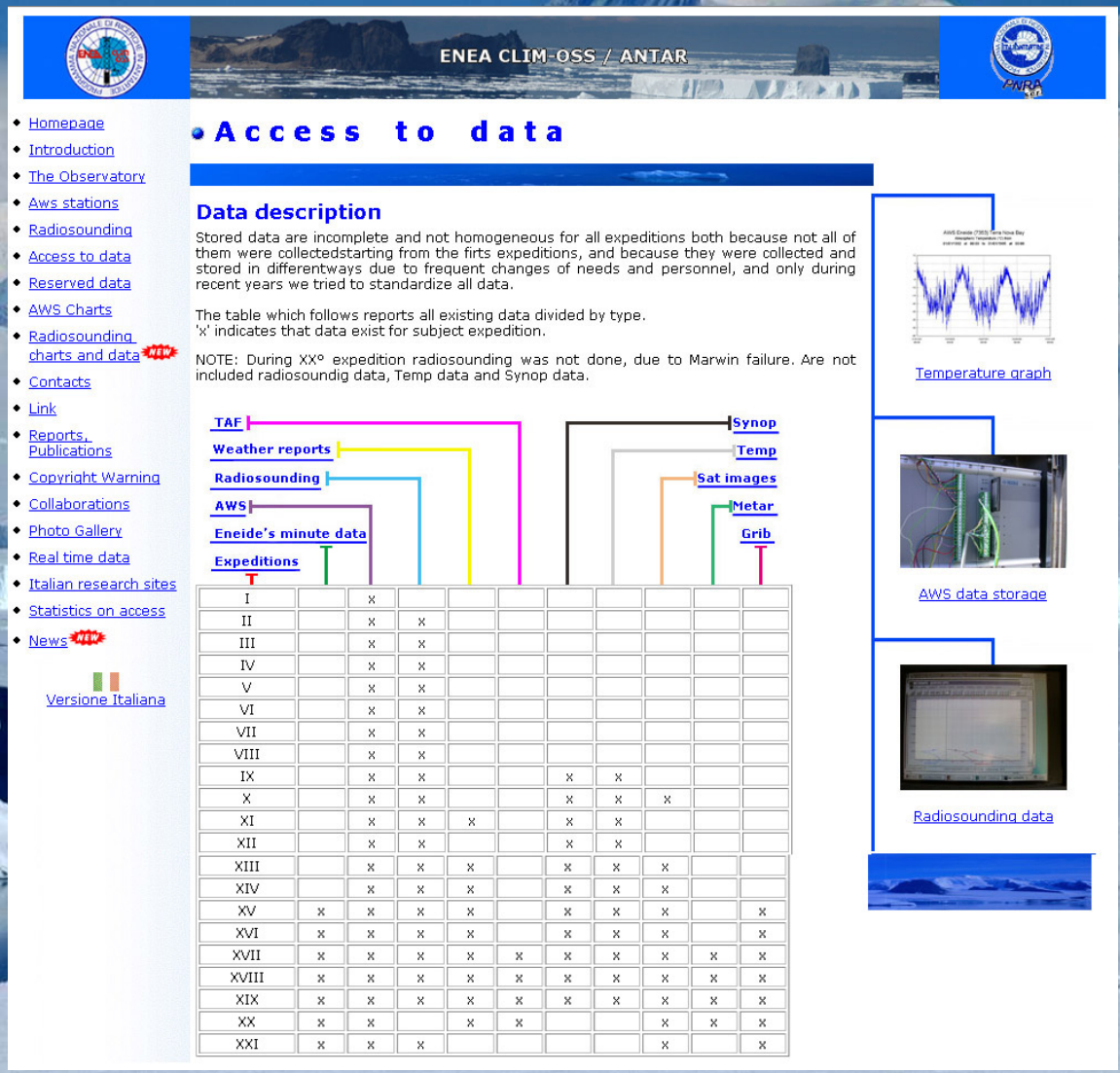
Two radiosoundings/day at TNB at 00:00 and 12:00 UTC

7.5 MB/month = 30 MB/year
1 db access/expedition

Meteo

Weather messages

- Synop
- Taf
- Temp
- Metar
- Weather reports



	TAF	Weather reports	Radiosounding	AWS	Eneide's minute data	Expeditions	Synop	Temp	Sat images	Metar	Grib
I		x									
II		x	x								
III		x	x								
IV		x	x								
V		x	x								
VI		x	x								
VII		x	x								
VIII		x	x								
IX		x	x				x	x			
X		x	x				x	x	x		
XI		x	x	x			x	x			
XII		x	x				x	x			
XIII		x	x	x			x	x	x		
XIV		x	x	x			x	x	x		
XV	x	x	x	x			x	x	x		x
XVI	x	x	x	x			x	x	x		x
XVII	x	x	x	x	x		x	x	x	x	x
XVIII	x	x	x	x	x		x	x	x	x	x
XIX	x	x	x	x	x		x	x	x	x	x
XX	x	x		x	x				x	x	x
XXI	x	x	x						x		x

Synop : 80 KB/expedition
Weather reports : 30 MB/expedition
400/500 files/expeditions

Model and Satellite Products

Grib from ECMFW

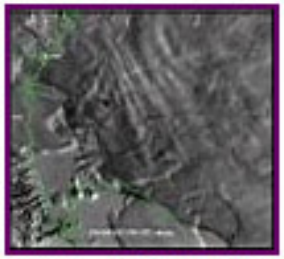
- Raw data: 8 MB/day
- 240 files/expedition
- 960 MB/expedition

- Plotted : 14 MB/day
- 60.000 files/expedition
- 1.4 GB/expedition

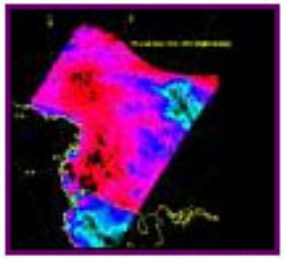
- Image zip format : 14 MB/day
- 240 files/expedition
- 1.4 GB/expedition

Satellite images

- 9.000 files/expedition
- 1.6 GB/expedition



Satimage_041023_btn.jpg



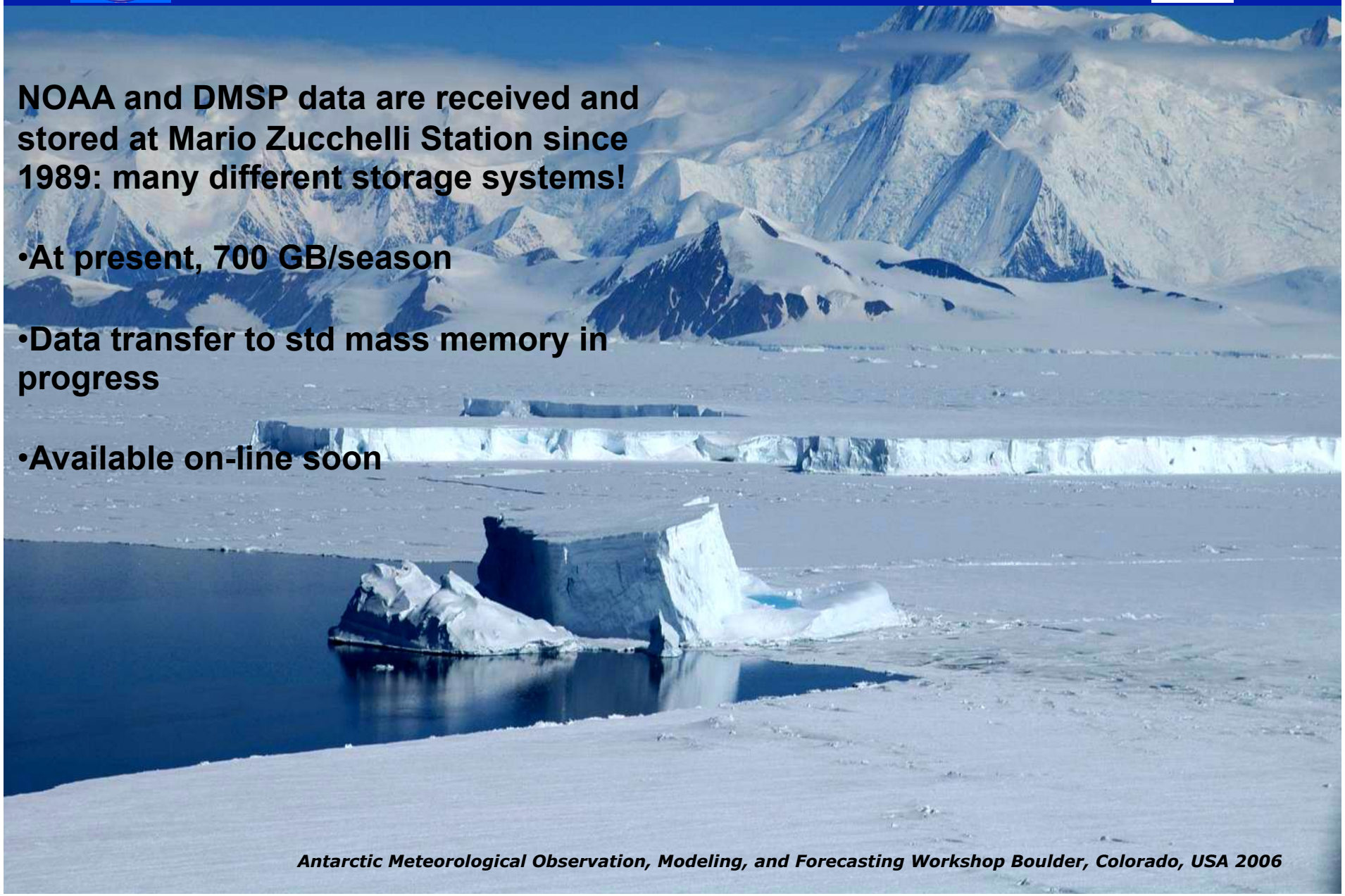
Satimage_041023_ice.jpg

Real time Argos

Telnet to Toulose (France)
CLS-Argos

- **8 files/day**
- **240 kb/files**
- **2920 files/year**
- **87 MB/year**

Satellite data



NOAA and DMSP data are received and stored at Mario Zucchelli Station since 1989: many different storage systems!

- **At present, 700 GB/season**
- **Data transfer to std mass memory in progress**
- **Available on-line soon**

Data collect

- AWS : 800 MB
- Radiosounding : 650 MB
- ECMFW : 12 GB
- Satellite data : 5 TB
- Other data : 900 MB

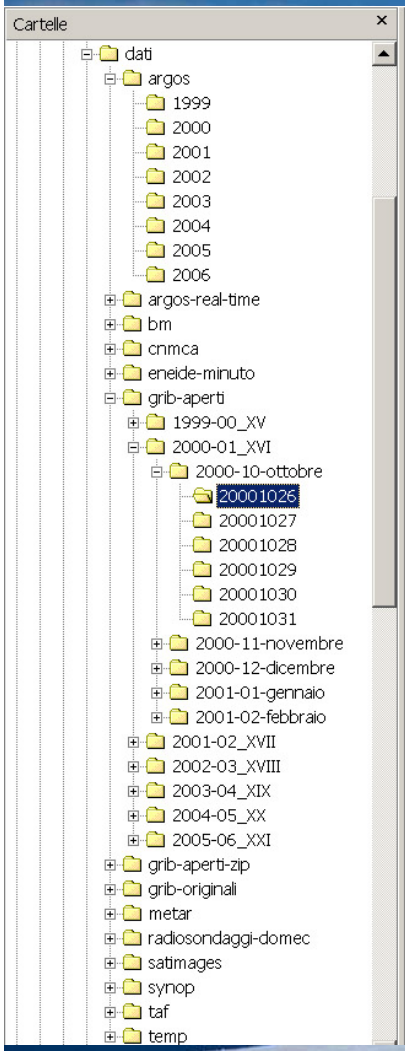
Total data size : more than 5 TB

Old

- **3 ½ floppy disk (>2000)**
- **Magnetooptical (>100)**
- **CDROM (>100)**
- **Tape (>300)**

- **Hard disk (4 2TB)**
- **Data base**

Standardized directory structure



Data directory

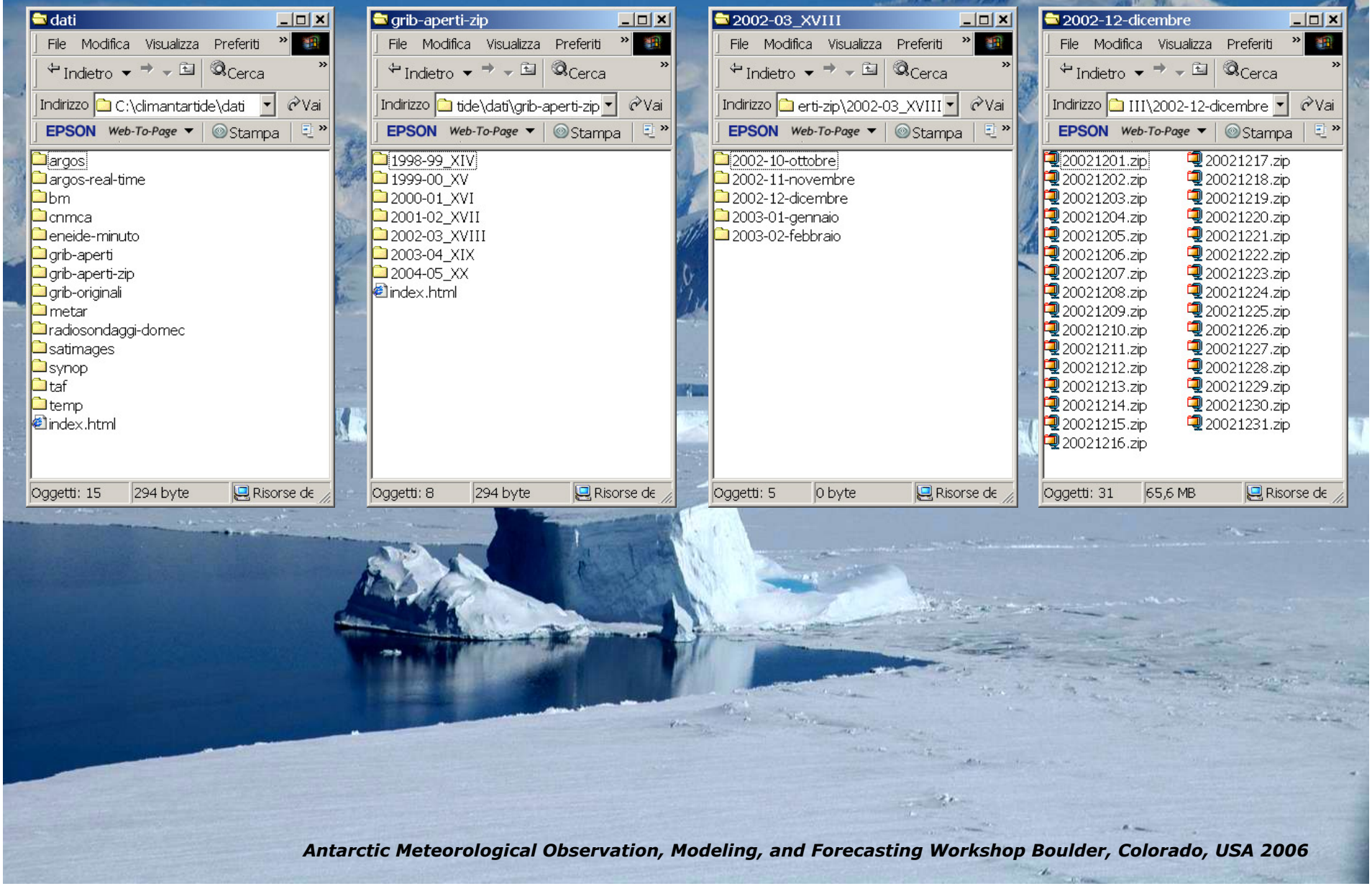
- directory by year
- directory by expedition

File names

- type_yymmddhh.ext
- example :

synop_020206.txt
taf_050104.txt

Standardized directory structure



Database and Archive

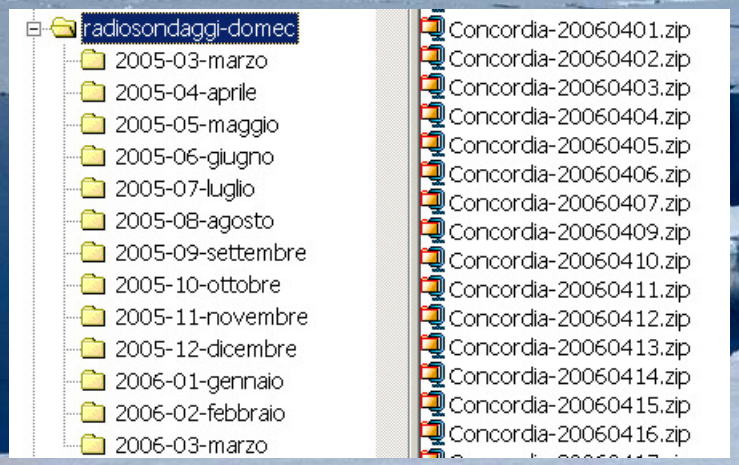
Microsoft Access - [anno2006 : Tabella]

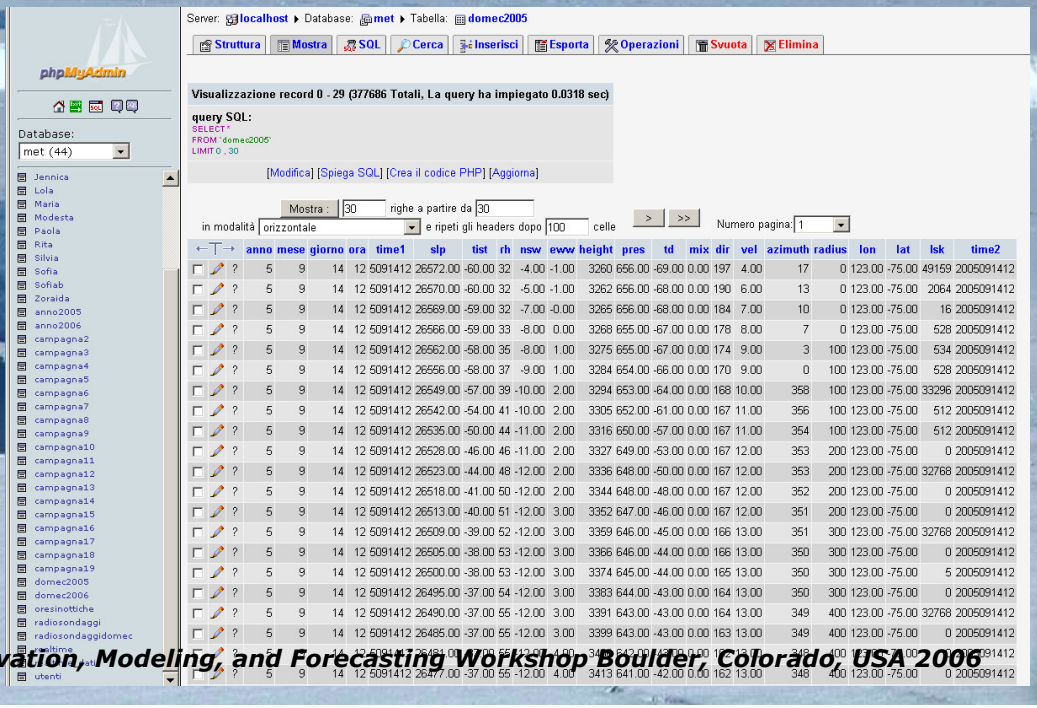
File Modifica Visualizza Inserisci Formato Record Strumenti Finestra ?

anno	mese	giorno	ora	time1	slp	tist	rh	nsw	eww	he
6	1	1	12	6010112	26525	-21	56	1,2	-3,9	
6	1	1	12	6010112	26522	-21,3	61	0,9	-3,4	
6	1	1	12	6010112	26518	-21,4	64	1	-3,7	
6	1	1	12	6010112	26512	-21,5	67	1,1	-4,1	
6	1	1	12	6010112	26506	-21,6	70	1,2	-4,5	
6	1	1	12	6010112	26500	-21,7	72	1,3	-4,9	
6	1	1	12	6010112	26494	-21,8	73	1,5	-5,2	
6	1	1	12	6010112	26488	-21,9	74	1,6	-5,6	
6	1	1	12	6010112	26481	-22	75	1,8	-5,9	
6	1	1	12	6010112	26474	-22,1	76	2	-6,1	
6	1	1	12	6010112	26467	-22,2	77	2,2	-6,4	
6	1	1	12	6010112	26461	-22,3	78	2,3	-6,6	
6	1	1	12	6010112	26455	-22,4	78	2,5	-6,7	
6	1	1	12	6010112	26448	-22,5	79	2,7	-6,8	
6	1	1	12	6010112	26443	-22,5	80	2,9	-6,9	
6	1	1	12	6010112	26439	-22,6	80	3	-7	
6	1	1	12	6010112	26435	-22,6	79	3,1	-7	
6	1	1	12	6010112	26429	-22,6	79	3,2	-7,1	
6	1	1	12	6010112	26423	-22,7	79	3,3	-7,1	
6	1	1	12	6010112	26416	-22,7	80	3,3	-7,1	

Storing Data

- Access database
- Mysql database
- Zip archive

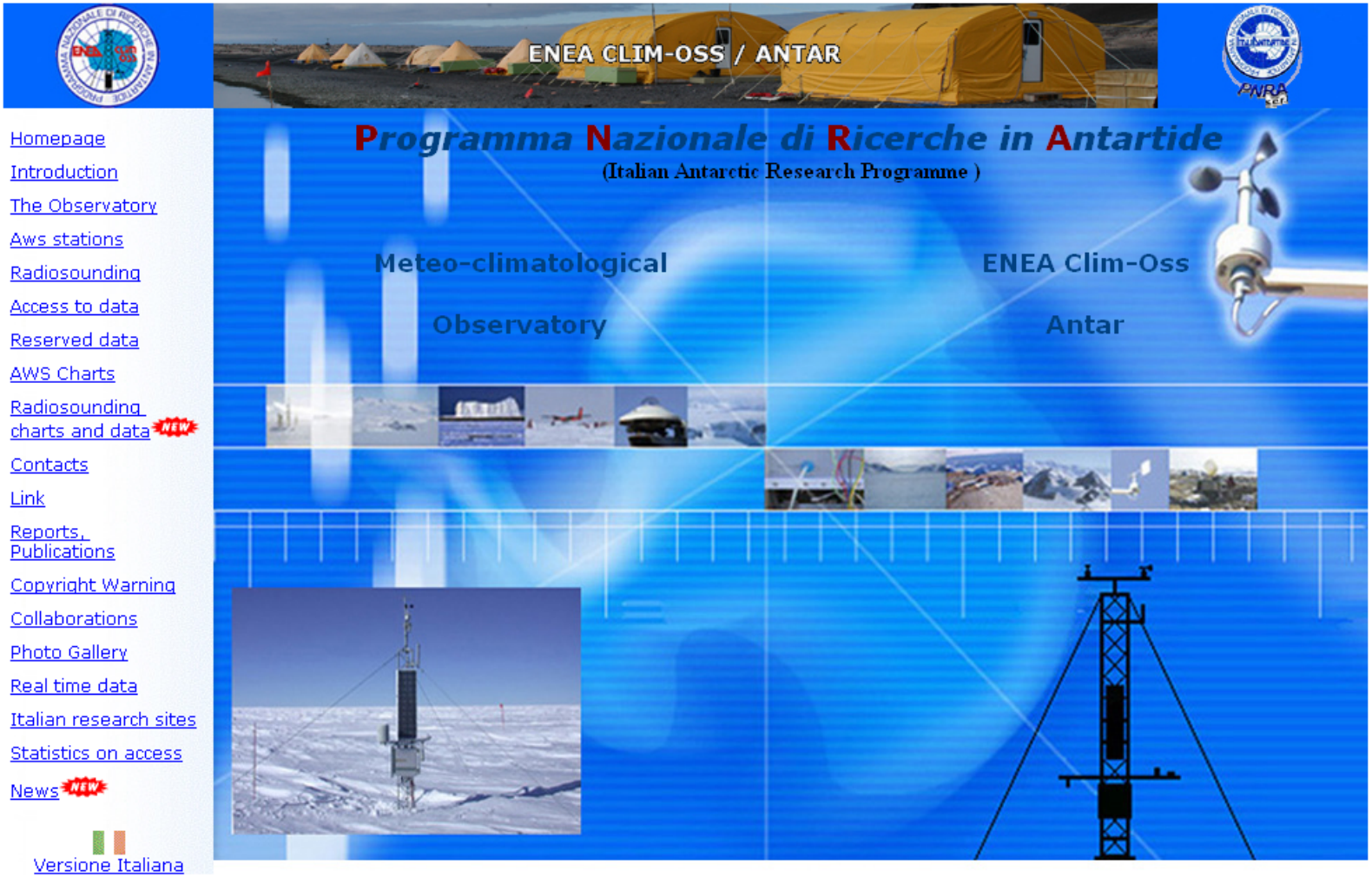




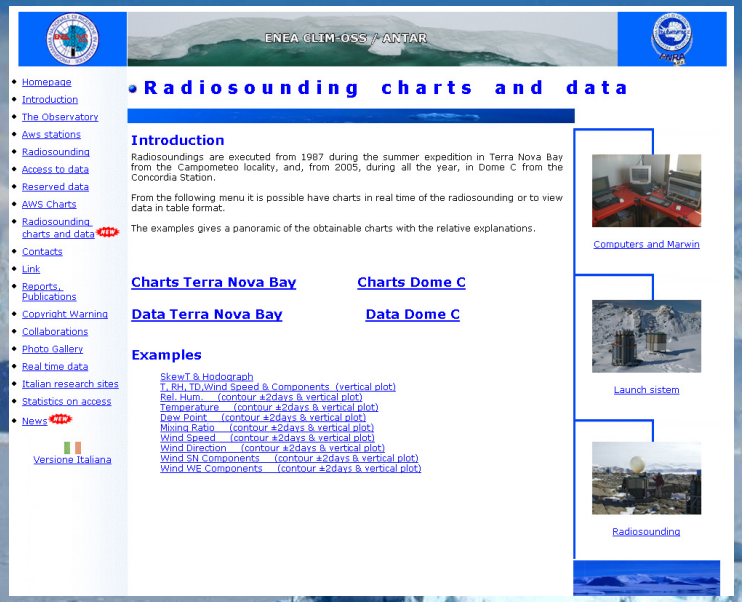
anno	mese	giorno	ora	time1	slp	tist	rh	nsw	eww	height	pres	td	mix	dir	vel	azimuth	radius	lon	lat	lsk	time2
5	9	14	12	5091412	26572.00	-60.00	32	-4.00	-1.00	3260	656.00	-69.00	0.00	197	4.00	17	0	123.00	-75.00	49159	2005091412
5	9	14	12	5091412	26570.00	-60.00	32	-5.00	-1.00	3262	656.00	-68.00	0.00	190	6.00	13	0	123.00	-75.00	2064	2005091412
5	9	14	12	5091412	26569.00	-59.00	32	-7.00	-0.00	3265	656.00	-68.00	0.00	184	7.00	10	0	123.00	-75.00	16	2005091412
5	9	14	12	5091412	26566.00	-59.00	33	-8.00	0.00	3268	655.00	-67.00	0.00	178	8.00	7	0	123.00	-75.00	528	2005091412
5	9	14	12	5091412	26562.00	-58.00	35	-8.00	1.00	3275	655.00	-67.00	0.00	174	9.00	3	100	123.00	-75.00	534	2005091412
5	9	14	12	5091412	26556.00	-58.00	37	-9.00	1.00	3284	654.00	-66.00	0.00	170	9.00	0	100	123.00	-75.00	528	2005091412
5	9	14	12	5091412	26549.00	-57.00	39	-10.00	2.00	3294	653.00	-64.00	0.00	168	10.00	358	100	123.00	-75.00	33296	2005091412
5	9	14	12	5091412	26542.00	-54.00	41	-10.00	2.00	3305	652.00	-61.00	0.00	167	11.00	356	100	123.00	-75.00	512	2005091412
5	9	14	12	5091412	26535.00	-50.00	44	-11.00	2.00	3316	650.00	-57.00	0.00	167	11.00	354	100	123.00	-75.00	512	2005091412
5	9	14	12	5091412	26528.00	-46.00	46	-11.00	2.00	3327	649.00	-53.00	0.00	167	12.00	353	200	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26523.00	-44.00	48	-12.00	2.00	3336	648.00	-50.00	0.00	167	12.00	353	200	123.00	-75.00	32768	2005091412
5	9	14	12	5091412	26518.00	-41.00	50	-12.00	2.00	3344	648.00	-48.00	0.00	167	12.00	352	200	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26513.00	-40.00	51	-12.00	3.00	3352	647.00	-46.00	0.00	167	12.00	351	200	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26509.00	-39.00	52	-12.00	3.00	3359	646.00	-45.00	0.00	166	13.00	351	300	123.00	-75.00	32768	2005091412
5	9	14	12	5091412	26505.00	-38.00	53	-12.00	3.00	3366	646.00	-44.00	0.00	166	13.00	350	300	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26500.00	-38.00	53	-12.00	3.00	3374	645.00	-44.00	0.00	165	13.00	350	300	123.00	-75.00	5	2005091412
5	9	14	12	5091412	26495.00	-37.00	54	-12.00	3.00	3383	644.00	-43.00	0.00	164	13.00	350	300	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26490.00	-37.00	55	-12.00	3.00	3391	643.00	-43.00	0.00	164	13.00	349	400	123.00	-75.00	32768	2005091412
5	9	14	12	5091412	26485.00	-37.00	55	-12.00	3.00	3399	643.00	-43.00	0.00	163	13.00	349	400	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26481.00	-37.00	55	-12.00	3.00	3406	642.00	-42.00	0.00	163	13.00	348	400	123.00	-75.00	0	2005091412
5	9	14	12	5091412	26477.00	-37.00	55	-12.00	4.00	3413	641.00	-42.00	0.00	162	13.00	348	400	123.00	-75.00	0	2005091412

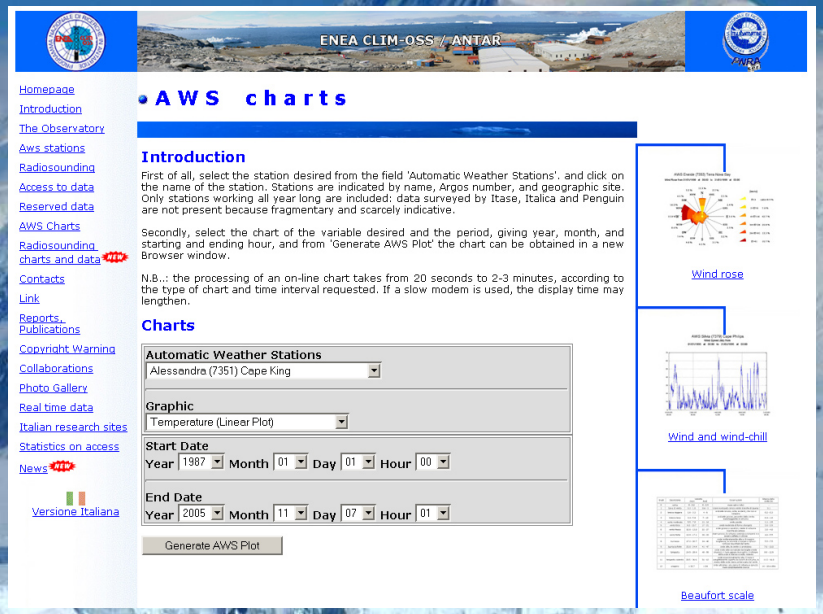
Web interface to the database

www.climantartide.it



Graphic Products

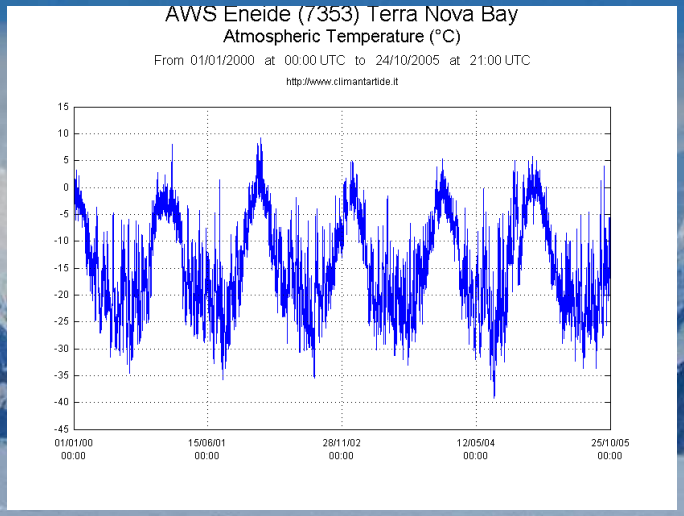




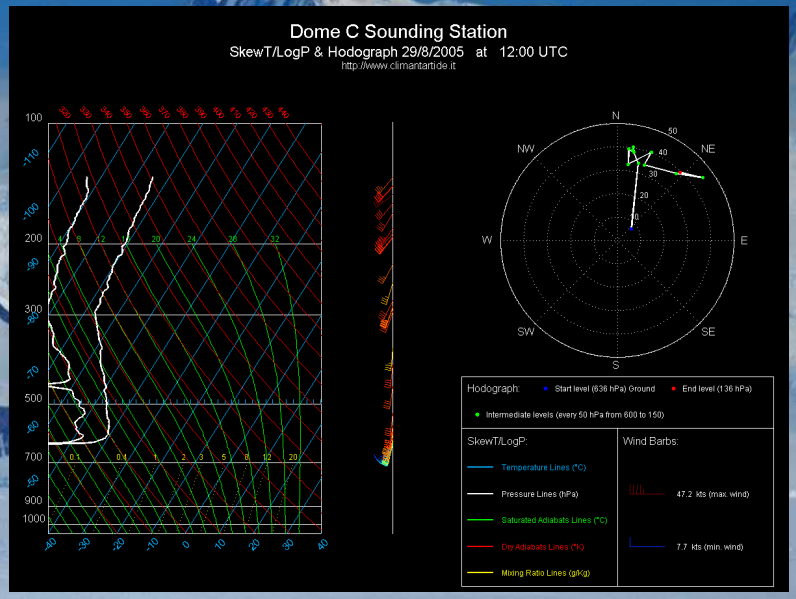
Charts available
in real time
(10 to 30 seconds)

- SkewT & Hodograph
- T,RH,Wind (vertical plot)
- Temperature , Humidty, etc

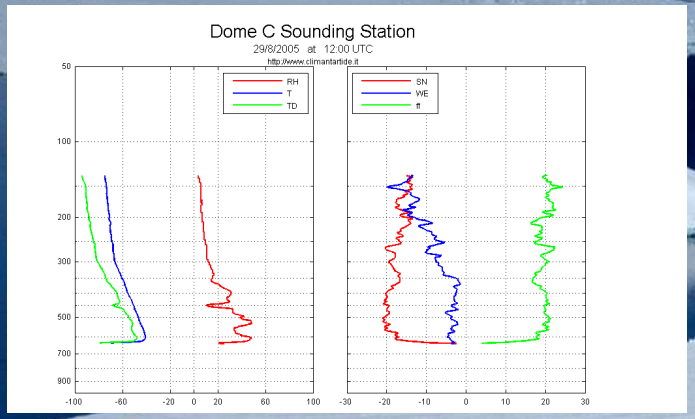
Charts examples



Temperature

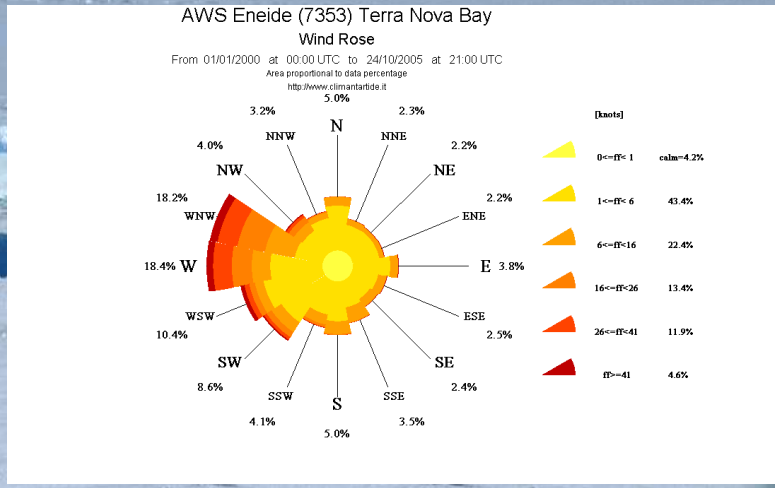


SkewT and Hodograph

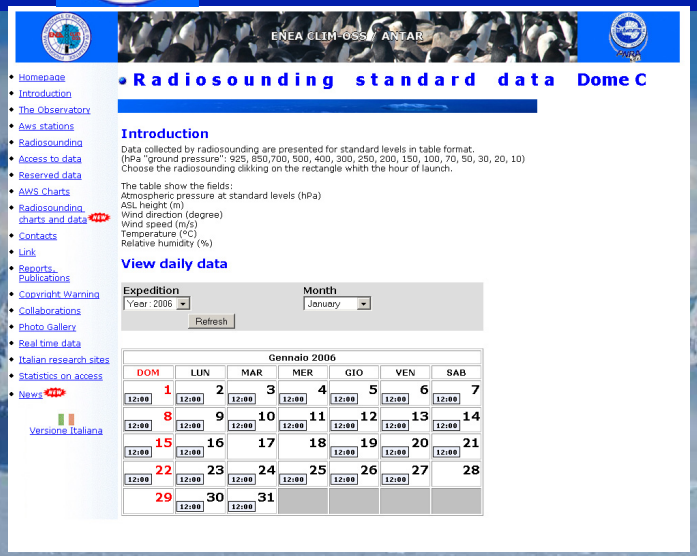


T, RH, TD, Wind speed and Components

Wind rose



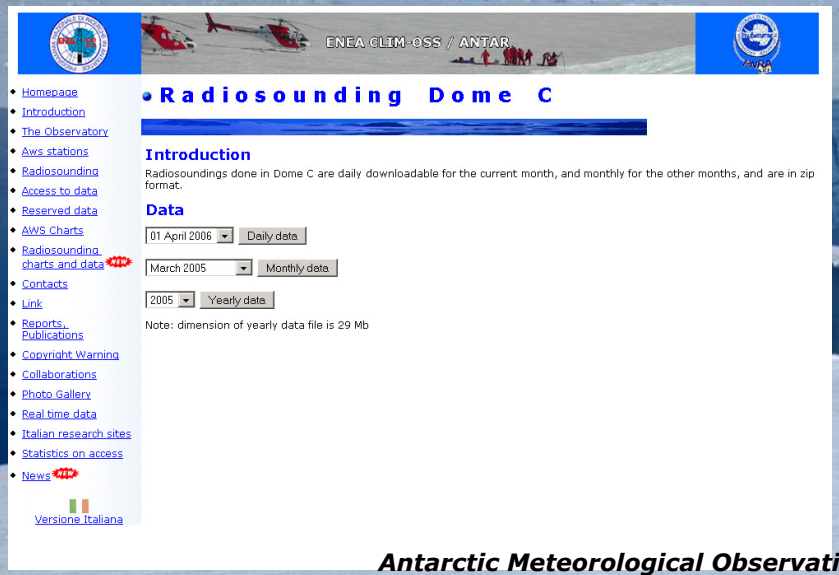
Radiosounding Data Listing



View Data

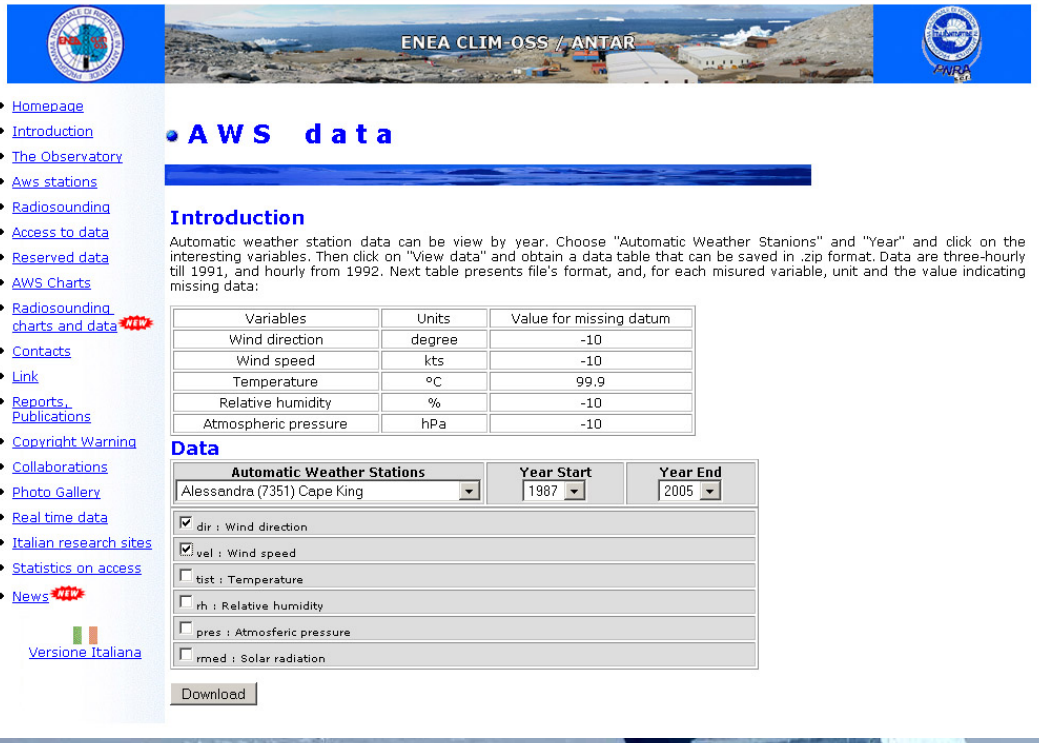
Radiosounding of 2006-01-30 at 12

Atmospheric pressure at *standard levels* (hPa)	ASL height (m)	Wind direction (degree)	Wind speed (m/s)	Temperature (°C)	Relative humidity (%)
500.0	5058	190	3.00	-35.00	30
400.0	6573	187	6.00	-44.00	57
300.0	8458	180	13.00	-55.00	49
250.0	9621	194	4.00	-50.00	3
200.0	11100	203	4.00	-46.00	1
150.0	13001	288	1.00	-42.00	1
100.0	15727	275	2.00	-42.00	1
70.0	18117	199	3.00	-39.00	1
50.0	20472	318	1.00	-39.00	1
30.0	23798	111	3.00	-38.00	1
20.0	-999	-999	-999	-999	-999
10.0	-999	-999	-999	-999	-999



Download Data

Aws Data Listing



View Data

- Table

Year	Month	Day	Hour	dir	vel	tist	rh	pres
2005	1	27	14	260	4	-39,7	17,0	648,3
2005	1	27	15	260	5	-41,6	17,0	648,2
2005	1	27	16	250	6	-42,0	16,0	648,0
2005	1	27	17	260	6	-44,0	16,0	648,0
2005	1	27	18	260	5	-44,5	16,0	648,1
2005	1	27	19	260	4	-44,9	16,0	648,2
2005	1	27	20	260	4	-44,5	16,0	648,2
2005	1	27	21	270	5	-43,3	16,0	648,2
2005	1	27	22	270	4	-41,5	16,0	648,4
2005	1	27	23	260	5	-39,1	17,0	648,6
2005	1	28	0	-10	-10	99,9	-10,0	-10,0
2005	1	28	1	-10	-10	99,9	-10,0	-10,0
2005	1	28	2	-10	-10	99,9	-10,0	-10,0
2005	1	28	3	-10	-10	99,9	-10,0	-10,0
2005	1	28	4	-10	-10	99,9	-10,0	-10,0
2005	1	28	5	-10	-10	99,9	-10,0	-10,0
2005	1	28	6	-10	-10	99,9	-10,0	-10,0
2005	1	28	7	-10	-10	99,9	-10,0	-10,0
2005	1	28	8	-10	-10	99,9	-10,0	-10,0
2005	1	28	9	-10	-10	99,9	-10,0	-10,0
2005	1	28	10	-10	-10	99,9	-10,0	-10,0
2005	1	28	11	280	5	-34,2	24,0	650,7
2005	1	28	12	270	5	-36,3	22,0	650,8
2005	1	28	13	260	5	-38,3	23,0	650,8
2005	1	28	14	250	5	-40,0	17,0	650,9
2005	1	28	15	260	6	-41,3	17,0	651,0
2005	1	28	16	260	6	-43,1	17,0	651,0
2005	1	28	17	250	5	-43,8	16,0	651,2
2005	1	28	18	260	5	-44,8	16,0	651,1
2005	1	28	19	240	5	-44,8	16,0	651,3
2005	1	28	20	260	5	-44,9	16,0	651,3
2005	1	28	21	250	3	-43,3	16,0	651,2
2005	1	28	22	270	2	-42,4	16,0	651,0
2005	1	28	23	270	3	-40,0	17,0	651,2
2005	1	29	0	-10	-10	99,9	-10,0	-10,0
2005	1	29	1	-10	-10	99,9	-10,0	-10,0
2005	1	29	2	-10	-10	99,9	-10,0	-10,0
2005	1	29	3	-10	-10	99,9	-10,0	-10,0

Dowload Data

- Mysql database

Other Data

- Homepage
- Introduction
- The Observatory
- Aws stations
- Radiosounding
- Access to data
- Reserved data
- AWS Charts
- Radiosounding charts and data
- Contacts
- Link
- Reports, Publications
- Copyright Warning
- Collaborations
- Photo Gallery
- Real time data
- Italian research sites
- Statistics on access
- News

Versione Italiana

Access to data

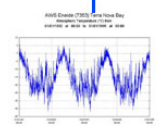
Data description

Stored data are incomplete and not homogeneous for all expeditions both because not all of them were collectedstarting from the firts expeditions, and because they were collected and stored in differentways due to frequent changes of needs and personnel, and only during recent years we tried to standardize all data.

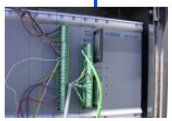
The table which follows reports all existing data divided by type.
'x' indicates that data exist for subject expedition.

NOTE: During XX° expedition radiosounding was not done, due to Marwin failure. Are not included radiosoundig data, Temp data and Synop data.

Expeditions	TAF	Weather reports	Radiosounding	AWS	Eneide's minute data	Synop	Temp	Sat images	Metar	Grib
I		x								
II		x	x							
III		x	x							
IV		x	x							
V		x	x							
VI		x	x							
VII		x	x							
VIII		x	x							
IX		x	x			x	x			
X		x	x			x	x	x		
XI		x	x	x		x	x			
XII		x	x			x	x			
XIII		x	x	x		x	x	x		
XIV		x	x	x		x	x	x		
XV	x	x	x	x		x	x	x		x
XVI	x	x	x	x		x	x	x		x
XVII	x	x	x	x	x	x	x	x	x	x
XVIII	x	x	x	x	x	x	x	x	x	x
XIX	x	x	x	x	x	x	x	x	x	x
XX	x	x		x	x			x	x	x
XXI	x	x	x					x		x



Temperature graph

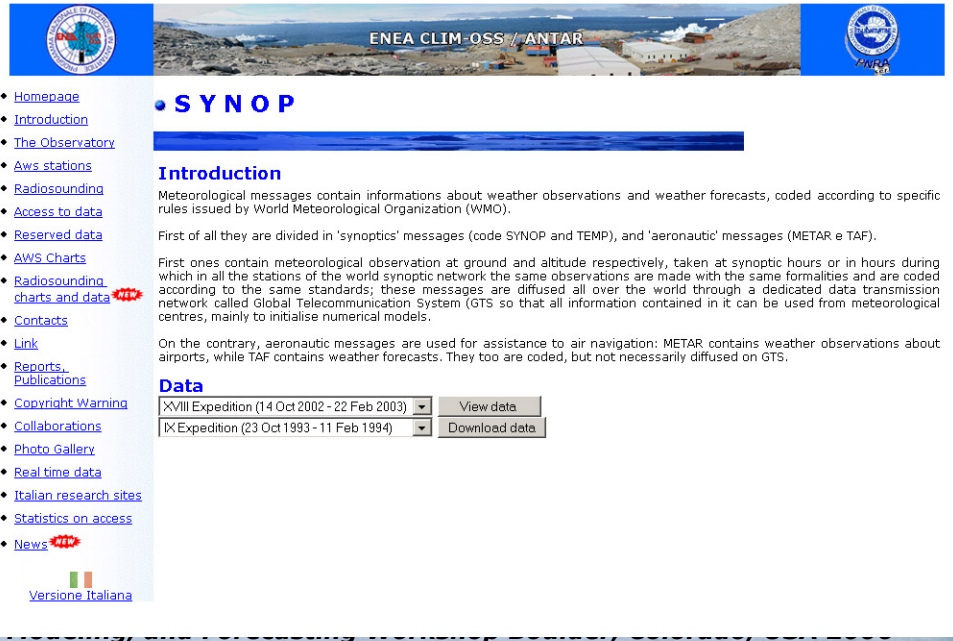


AWS

Radi

View and download Data

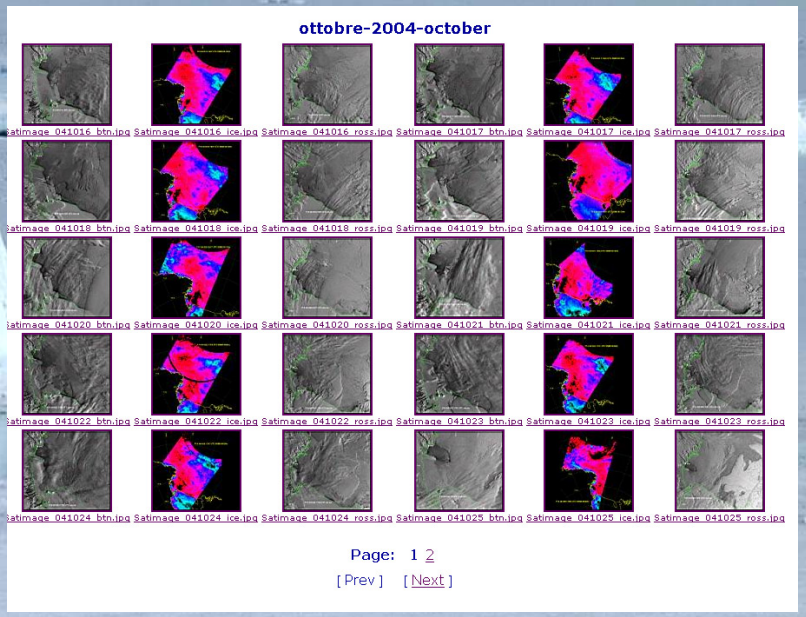
- Grib
- Synop
- Temp
- Taf
- Metar
- Weather reports



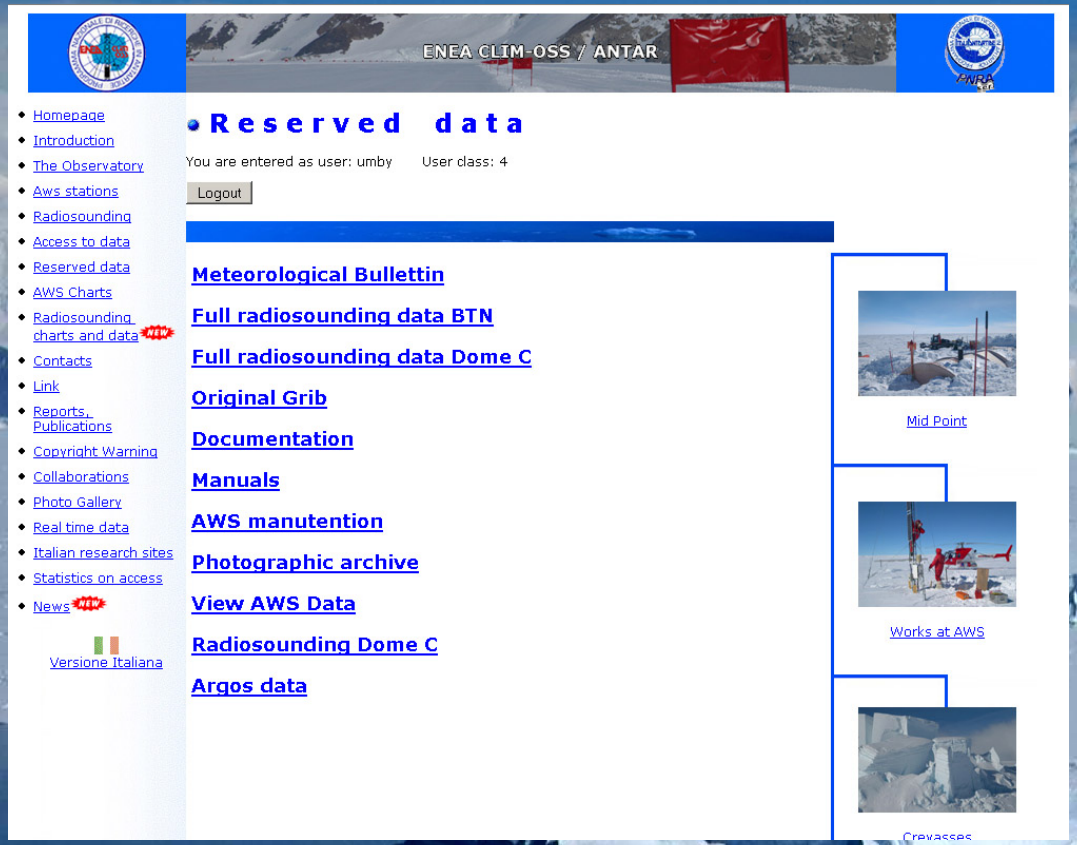
Satellite Data

View Data

- Satellite images



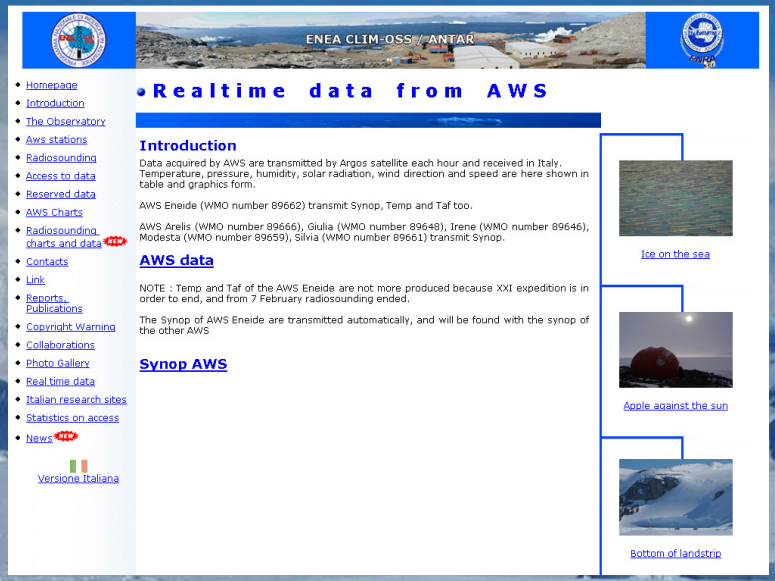
Reserved Data

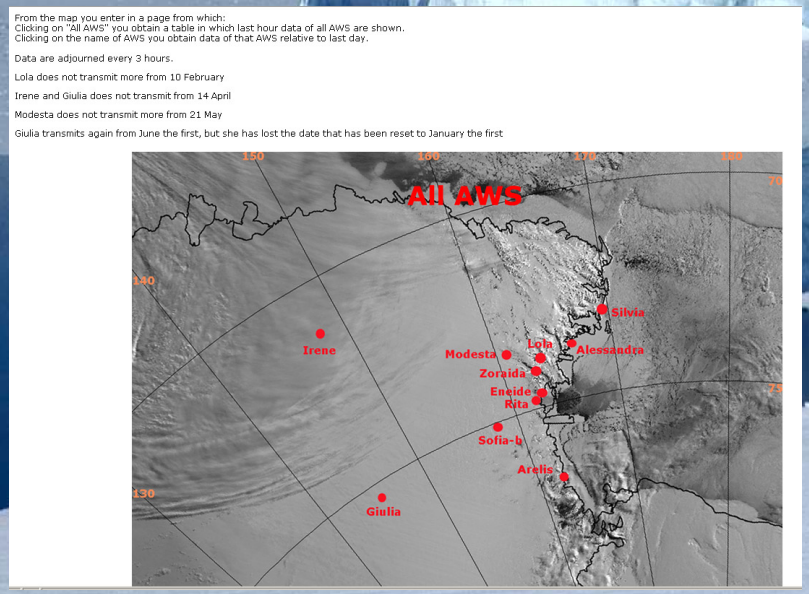


View and download Data (User ID and PWD)

- **full radiosounding data**
- **full AWS data**
- **raw data from ECMWF**

Real time Data





ID Argos	Name	date/time	Wind			Temperature (°C)			Humidity (%)	Pressure (hPa)	Solar Radiation (W/m2)	Batteries (V)
			Dir (deg)	Speed Inst (kt)	Speed Max (kt)	Inst	Max	Min				
01218	Irene	--	--	--	--	--	--	--	--	--	--	--
01627	Giulia	2006-01-02 15:00	200	16	22	-42.5	-42.5	-42.7	56	754.0	--	16.2
07350	Sofia-B	2006-06-01 09:00	0	0	0	-26.9	-26.8	-27.5	74	805.8	--	13.0
07351	Alessandra	2006-06-01 09:00	240	4	5	-21.0	-20.8	-21.0	76	974.2	0	12.5
07352	Zoraida	2006-06-01 09:00	0	0	0	-25.6	-25.3	-25.7	48	912.8	--	13.5
07353	Eneide	2006-06-01 09:00	240	11	22	-20.7	-20.4	-20.8	78	983.5	0	13.0
07354	Rita	2006-06-01 09:00	240	18	22	-21.5	-21.5	-21.8	56	960.5	--	13.0
07355	Modesta	2006-05-21 09:00	310	17	22	-57.4	-57.0	-57.7	40	750.8	--	12.8
07356	Lola	--	--	--	--	--	--	--	--	--	--	--
07357	Arelis	2006-06-01 09:00	130	7	16	-16.7	-16.7	-19.3	81	973.7	--	12.9
07379	Silvia	2006-06-01 06:00	240	27	39	-21.8	-21.6	-22.1	70	919.4	--	13.2

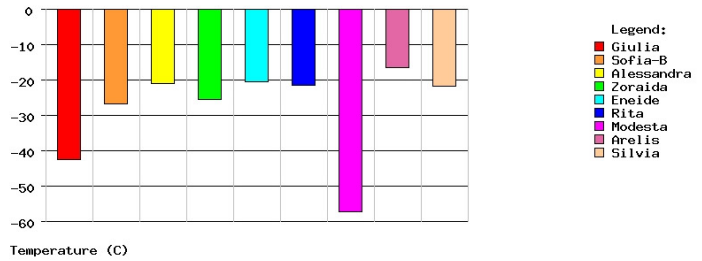
Lola does not transmit more from 10 February

Irene and Giulia does not transmit from 14 April

Modesta does not transmit more from 21 May

Giulia transmits again from June the first, but she has lost the date that has been reset to January the first

Back to the map Back to the menu



View Data

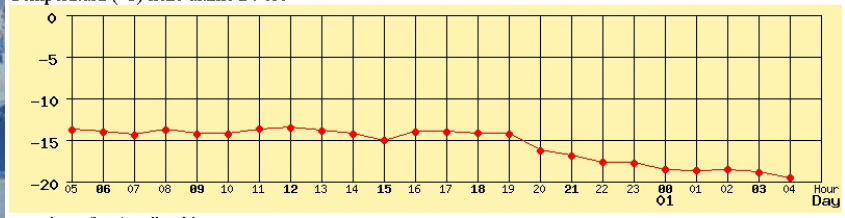
- AWS data
- Synop

Real time Data

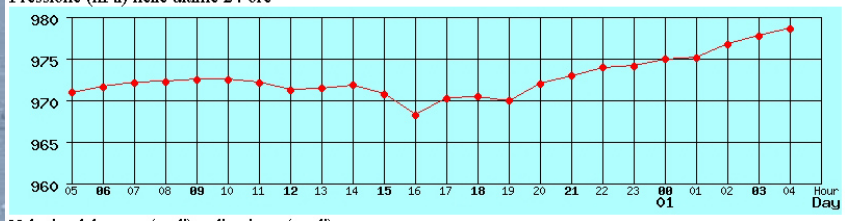
ID Argos 07353	Nome Eneide	Località Terra Nova Bay								
data/ora	Vento			Temperatura (°C)			Umidità (%)	Pressione (hPa)	Radiazione Solare (W/m2)	Batterie (V)
	Dir (deg)	Vel Inst (kt)	Vel Max (kt)	Inst	Max	Min				
2006-06-01 04:00:00	240	18	23	-19.6	-18.8	-19.6	80	978.6	0	13.0
2006-06-01 03:00:00	270	8	17	-18.9	-18.5	-19.0	82	977.7	0	13.0
2006-06-01 02:00:00	220	13	28	-18.6	-18.3	-18.7	83	976.7	0	13.0
2006-06-01 01:00:00	210	22	28	-18.7	-18.5	-18.8	83	975.1	0	13.0

Indietro alla lista Indietro alla mappa Indietro al menù

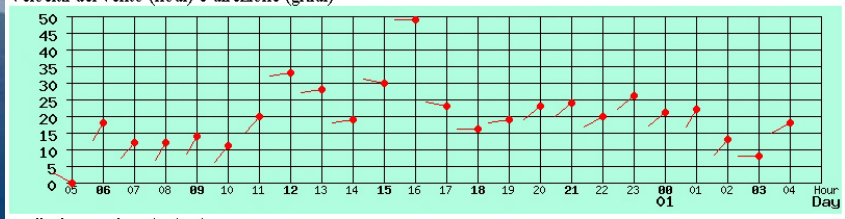
Temperatura (°C) nelle ultime 24 ore



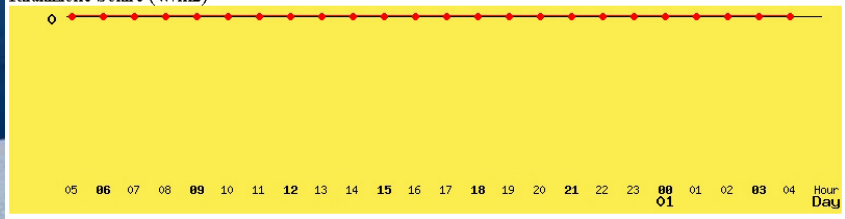
Pressione (hPa) nelle ultime 24 ore



Velocita del vento (nodi) e direzione (gradi)



Radiazione Solare (W/m2)



View Data

- AWS data
- Synop

Index of /dati/cnmca/aws-synop

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Computers

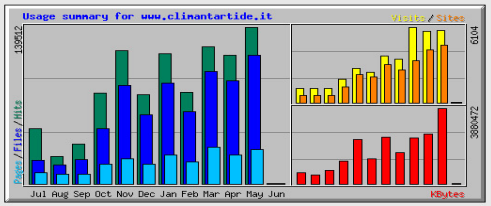
WEB SERVER

- Linux Fedora release 5
- 3.6 GHz
- 1 GB RAM

PLOTTING (MATHLAB) SERVER

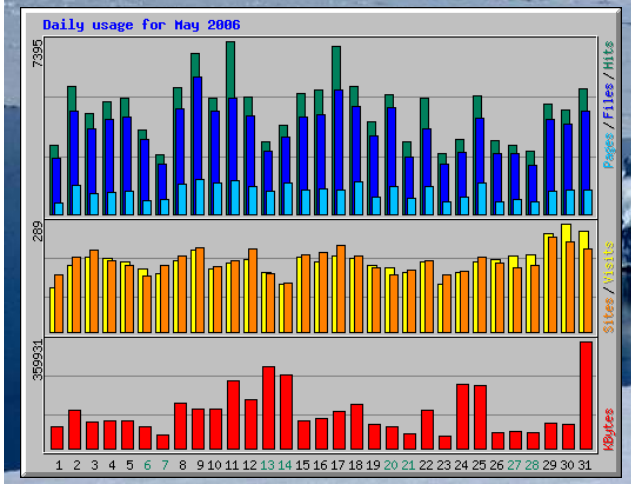
- Windows 2000
- 3.2 GHz
- 2 GB RAM
- Mathlab 12

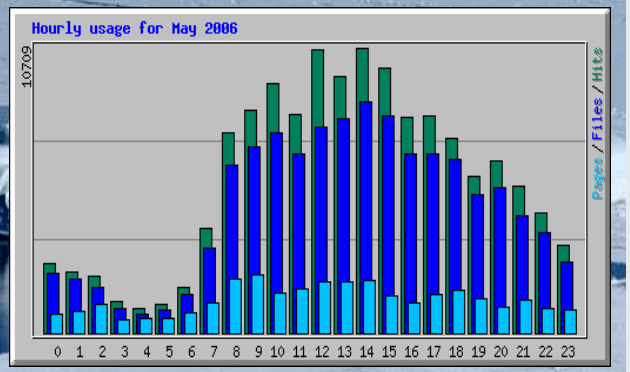
Site Access Statistics



Summary by Month

Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
Jun 2006	102	81	49	40	44	6214	40	49	81	102
May 2006	4500	3700	977	187	4658	3880472	5816	30317	114709	139512
Apr 2006	3810	3060	851	191	4248	2544917	5751	25536	91809	114319
Mar 2006	3943	3219	1055	196	3367	2358275	6104	32712	99811	122257
Feb 2006	2902	2304	704	126	2659	1586031	3541	19713	64515	81261
Jan 2006	3734	2904	824	121	3087	2406772	3754	25574	90025	115773
Dec 2005	2567	1980	561	79	2112	1287304	2464	17396	61390	79582
Nov 2005	3951	2921	745	92	2272	2263098	2785	22373	87637	118553
Oct 2005	2601	1594	573	62	1289	1153734	1928	17767	49426	80654
Sep 2005	1187	717	284	37	585	701636	1138	8522	21515	35620
Aug 2005	779	548	270	37	567	461374	1176	8382	16991	24154
Jul 2005	1587	674	327	36	602	575643	1137	10157	20905	49201
Totals						19225470	35634	218498	718814	960988





#	Hits		Files		KBytes		Country
1	68150	48.85%	57832	50.42%	1204870	31.05%	Italy
2	23589	16.91%	19382	16.90%	721937	18.60%	Unresolved/Unknown
3	18043	12.93%	13921	12.14%	968253	24.95%	US Commercial
4	11521	8.26%	8561	7.46%	211834	5.46%	Network
5	2121	1.52%	1806	1.57%	34214	0.88%	Switzerland
6	1773	1.27%	1122	0.98%	29574	0.76%	US Educational
7	1771	1.27%	1551	1.35%	36503	0.94%	France
8	1714	1.23%	1665	1.45%	384254	9.90%	Non-Profit Organization
9	1465	1.05%	1015	0.88%	68244	1.76%	United Kingdom
10	1047	0.75%	997	0.87%	29978	0.77%	Czech Republic
11	612	0.44%	580	0.51%	14263	0.37%	Brazil
12	588	0.42%	524	0.46%	11527	0.30%	Germany
13	543	0.39%	499	0.44%	11711	0.30%	Portugal
14	504	0.36%	446	0.39%	11793	0.30%	Belgium
15	493	0.35%	444	0.39%	14536	0.37%	Netherlands
16	472	0.34%	449	0.39%	9116	0.23%	Poland
17	407	0.29%	378	0.33%	10158	0.26%	Mexico
18	387	0.28%	364	0.32%	9827	0.25%	Canada
19	381	0.27%	70	0.06%	1370	0.04%	Saudi Arabia
20	370	0.27%	341	0.30%	6357	0.16%	Romania
21	369	0.26%	341	0.30%	16853	0.43%	Australia
22	361	0.26%	292	0.25%	11514	0.30%	New Zealand (Aotearoa)
23	244	0.17%	229	0.20%	3050	0.08%	United States
24	238	0.17%	212	0.18%	3581	0.09%	Norway
25	236	0.17%	226	0.20%	5536	0.14%	Spain
26	203	0.15%	195	0.17%	3435	0.09%	Argentina
27	202	0.14%	177	0.15%	5205	0.13%	Chile
28	127	0.09%	108	0.09%	5114	0.13%	Peru
29	120	0.09%	110	0.10%	3100	0.08%	Turkey
30	113	0.08%	56	0.05%	1221	0.03%	Finland
31	105	0.08%	73	0.06%	3905	0.10%	Japan
32	100	0.07%	95	0.08%	2414	0.06%	Greece

Conclusion

1. Valid instrument for storing and accessing data
2. Future: some statistical/climatological products
3. Dowloadable satellite data


Thank you for your attention