METEO FRANCE

Centre de Météorologie Spatiale

SATMOS

Service for the archiving and meteorological processing of satellite observations

SATMOS is the result of a dedicated co-operation between Météo-France and the CNRS for archiving and disseminating weather satellite data within the scientific community. SATMOS provides access to preprocessed data and geo-physical products. It is of interest to all those who require ready to use numerical data for scientific research purposes.

The basic archive includes:

- AVHRR and TOVS data from the American NOAA polar orbiting satellites since January 1993,
- data from the American GOES geostationary satellites since January 1996, the Japanese GMS since July 1997, and European (Meteosat) since 1996
- geophysical products from AVHRR or Meteosat data

SATMOS on the Internet: www.satmos.meteo.fr

Pages available:

- introduction to SATMOS,
- information on the archive,
- different types of diffusion,
- information on the weather satellites,
- different sites related to the satellites,
- making and following up orders,
- forum.

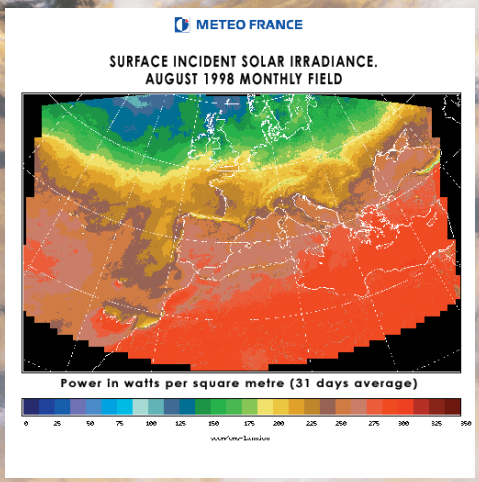
Quicklooks:

Near real time imagery:

- NOAA on the Lannion acquisition zone,
- Meteosat,
- GMS,
- GOES.

Off-line products:

- vegetation index (derived from AVHRR),
- sea surface temperature (derived from AVHRR),
- solar radiation (derived from Meteosat).
- cloud classification (derived from MSG)



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DP/CMS May 2004

SATMOS catalogue

Satellite data						
Satellite	**Domain**	**Product**	**Resol.**	**Time period**	**Diffusion format**	**Archive since**
GOES East	Globe	Channel 1, 2, 4, 5	4 km	3 hours	Tarcyl	June 1997
		Channel 3	8 km	3 hours	"	
	North	Channel 1	1 km	30 minutes	Tarcyl	
		Channel 1, 2, 4, 5	4 km	30 minutes	"	
		Channel 3	8 km	30 minutes	"	
GOES West	Globe	Channel 1, 4	4 km	1/3 hours	Tarcyl	July 1997
		Channel 3	8 km	1/3 hours	"	
GMS	Globe	VIS	8 km	3 hours	Tarcyl	July 1997
		IR1	"	"	"	
		IR3	"	"	"	
METEOSAT	Globe	VIS channel	2.5 km	Slot 23	Tarcyl	January 1996
		VIS channel (a)	5 km	30 minutes	"	
		IR channel (a)	5 km	"	"	
		WV channel (a)	"	30min/3h	"	
IODC	Globe	VIS channel	2.5 km	Slot 16	Tarcyl	July 1999
		VIS channel	5 km	30 minutes	"	
		IR channel	"	"	"	
		WV channel	"	"	"	
MET08 (MSG1)	HRV zone	VIS (0.6-0.9 µm)	1 km	15 minutes	Tarcyl	September 2003
	Globe	Other channels	3 km	"	"	
NOAA	L. A. Z.	Channel 1, 2, 3, 4, 5	1 km	Each pass	Tarcyl / FIS	January 1993

Geophysical products						
Satellite	**Domain**	**Product**	**Resol.**	**Time period**	**Diffusion format**	**Archive since**
NOAA	L. A. Z.	Cloud mask	1 km	Each pass	Tarcyl / FIS	January 1993
NOAA	Mediterranean	Channel 4	1 km	Each pass	Tarcyl	June 2001
NOAA	L. A. Z.	NDVI (0°C)	2/1 km	Day	Tarcyl	June 1988
			"	10 days	"	
			"	Month		
NOAA	L. A. Z.	Ground temp. (0°C)	2/1 km	Day	Tarcyl	June 1988
			"	Night	"	
NOAA	L. A. Z.	TSM	2 km	Night	Tarcyl	January 1988
			"	5 days	"	
			"	Weekly	"	
			"	10 days	"	
			"	Monthly	"	
METEOSAT	Europe North Africa	Radiative flux	25/2.5 km	Hourly	Tarcyl	January 1991
			"	Day	"	
			"	10 days	"	
			"	Monthly	"	

*** L. A. Z = Lannion Acquisition Zone**

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