

# **Satellite products and database**

**Round Table PS3c**

## INVENTORY (first draft)

DATA NEED	SPACEBORNE PLATFORMS
Wind speed and direction over the sea, parameterized surface stresses, vorticity ,etc	QuickScat data - 25/12.5 km ENVISAT – 12.5 km
Water vapor, wind speed, precipitation, surface humidity, surface fluxes over sea	SSM/I, AMSR
Precipitation (also from spaceborne radar)	TRMM up to 37°N, MSG, GPM?
LAI, FAPR, NDVI	MODIS – 300m ; SPOT-vegetation - 1 km
Soil-moisture	(SMOS, MSG, AMSR, ENVISAT)

<b>DATA NEED</b>	<b>SPACEBORNE PLATFORMS</b>
Albedo	MSG, 1km / 5-15 min
Wave height, wave direction	JASON 1-2
SST	MSG
Ocean color, chlorophyl content, sediment load	SEAWIFS, MODIS, MERIS
Aerosol optical thickness	MODIS, CALIPSO
Clouds	CALIPSO, CLOUDSAT
Radiative fluxes	

## Raw data

- Need for raw data along the satellite swath
- Need of processed geophysical data along the satellite swath
- Need for real-time or near real-time availability

## Gridded data

- Need for gridded data
- Need for real-time or near real-time availability
- Composit products from several satellites (e.g precipitation estimates)

## End-users requirements

- Availability** of the data (negociation with agencies if not freely available)
- HyMeX data base** issue/data sharing policy
- Specific products (processed from raw data)
- Limit the geographical coverage of global satellite data to the Mediterranean area
- Simple data format for end-users (when needed)