

## PRINCIPLE

Display and analysis of lightning data over long periods in order to identify high activity regions. Data archived on the CATS server is transferred to the PC with floppy disk or through a telecommunication link. Several years worth of data can be processed at once. Lightning density can be computed over a grid or for user defined areas.

## PRE-REQUISITE

A PC installed at the customer's site, optionally linked to the Operational Center through a communication line. A high throughput line should be used (ethernet or ISDN).

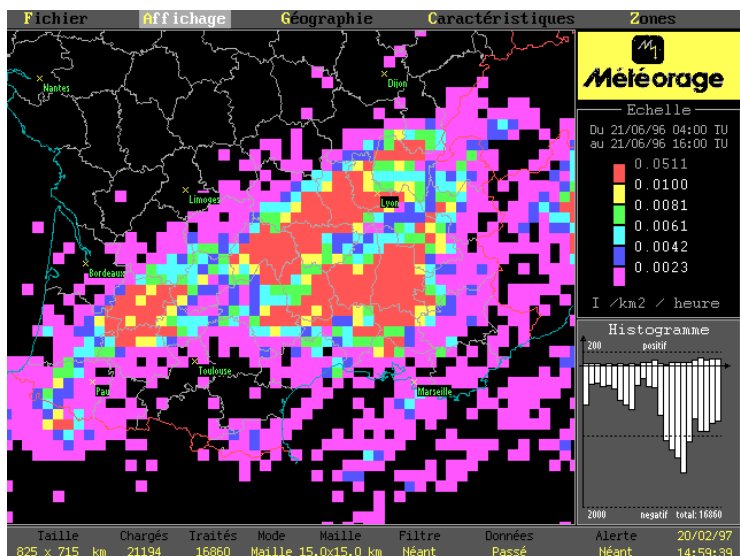
## DATA

A custom map is displayed on the P.C. showing the customer's region, sensitive spots such as lines or posts can be included.

Each region (mesh or user defined area) is color coded as a function of its lightning density for the period. The regions are superimposed on the geographic background.

## PROCESSING

- Communication with the server to extract lightning data
- Local storage of lightning data
- Screen copy
- Zoom to reduce the observed region and enrich the display with smaller objects.
- Data archive on the PC (millions of flashes).
- Area characteristics (size, number of flashes, lightning density, position, ...)
- Prints lightning density of area.



- Up to 1000 user defined areas of any shape (circle, line, polygon)
- Filter on flash polarity and amplitude

## APPLICATIONS

Identify exposed areas  
 Select where to install protections  
 Check efficiency of existing protections, correlate lightning density with incident statistics  
 Asset exposure analysis