

IRDAM

IRISCART

NEW

DIGITAL MAPPING TO HELP DECISION MAKING IN CASE OF CHEMICAL HAZARD.

BASED ON THE WEATHER STATION
IRDAM WST7000C



A totally new concept based on data processing

IRISCART is an application of dynamic digital mapping using data supplied by sensor IRDAM WST7000C, a compact, automatic station without any moving part.



Objectives

- To help decision making in real time.
- To simulate the hazard evolution in 3D.

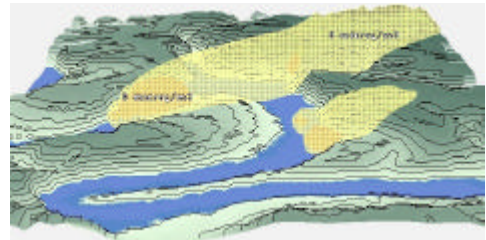
Characteristics and functions

The WST7000C is especially engineered to be mounted on vehicles or on the ground. It measures wind speed and direction with respect to magnetic North, temperature, pressure, humidity and dew point.

The IRISCART application makes it possible to open a specific file for each intervention, to localize the accident on the monitor, to register the chronology of events and meteorological measurements made during the intervention, to extrapolate the geographical evolution of the danger. It takes into account the time to reach the site, the atmospheric conditions, the type of ground (city, forest, etc), the nature of pollutant, the topography and the measures supplied by the IRDAM meteorological station.

Software in English, German and French.

The system is based on digitized national maps.

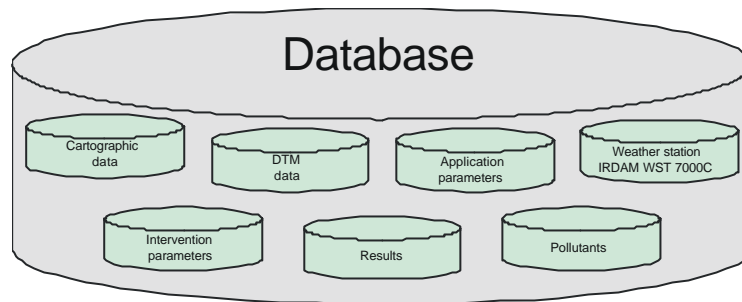


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Components of the data base



Characteristics

- Measurement of wind speed. Accuracy: $\pm 0.5 \text{ m/s} \pm 5\%$
- Measurement of wind direction with respect to magnetic North. Accuracy: 10°
- Measurement of air temperature. Accuracy: $\pm 1^\circ\text{C}$
- Measurement of relative humidity. Accuracy: $\pm 4\%$
- Measurement of absolute atmospheric pressure. Accuracy: $\pm 3 \text{ hPa (mBar)}$
- Figuring out of dew point on the basis of temperature and relative humidity
- Grid of the Digitized Terrain Modeling: 100 to 500m
- Zooming on the map

Operating system

PC minimum 1000 MHz, 128 Mb RAM, Windows 98, 2000, NT4

