

RSMC TOULOUSE REPORT 2012

Meteo-France national forecast centre operates 24-7 desks that have the responsibility to provide forecasts for the spread of pollutants (nuclear, chemical). The service is an immediate delivery of meteorological observation data, followed by forecast and modelling dispersion products. In case of a nuclear accident, national meteorological services could « request for RSMC support ». The map products are sent back to the demanding national meteorological service.

Two models may be used, according to the needs :

- The global **MOCAGE** model coupled with french atmospheric global model ARPEGE or with european ECMWF global model. Standard outputs 20 minutes after launch. Possibility of computing retro-trajectories for CTBTO.
- The local **PERLE** high resolution dispersion model system.

3 possibilities of meteorological coupling :

- AROME model up to 2,5 km resolution cover France
- ARPEGE/MESO-NH cover Europe
- ECMWF/MESO-NH global cover.

We use LPDM diffusion model. First outputs 15 minutes after launch. Forecast up to 6 hours.

The products are distributed either by fax, email, on internet on rsmc mirror web sites of RSMC, and with an external link created for each new event

The presentation of RSMC Toulouse is available on <http://www.meteorologie.eu.org/CMC>

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Improvements made in 2012:

Operational improvements:

- faster outputs with short range system PERLE
- improved graphics to speed up understanding by our users

International exercises and events in 2012

- **CTBTO** : RSMC Toulouse took part in 23 CTBTO requests (exercises or real events).
- **IAEA quarterly tests and communications tests**: RSMC Toulouse took part in all tests.

International exercises in 2013

- RSMC Toulouse will take part in all IAEA emergencies requests, tests and exercises, and in all CTBTO requests.
- We will join the monthly test run by RSMC Washington/Melbourne/Montreal, as a possibility to train our forecasters, and as often as possible to practise redaction of joint statements with RSMC Exeter.

Plans for improvements in 2013

- the MOCAGE operational suite will be improved by taking into account more meteorological data, specially in the upper troposphere - lower stratosphere (between 100 and 10 hPa).
- Development of "time of arrival" new product (as soon as the RSMC expert group will set up a standard for this product).

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