

# RSMC TOULOUSE REPORT 2011

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** system covers France and neighbouring countries (3 possibilities of meteorological coupling with ARPEGE/MESO-NH or ECMWF/MESO-NH (PERLE IFS) or AROME model up to 2,5 km resolution).

The products are distributed either by fax, email, on internet on RSMC mirror web sites of Melbourne, Washington, Montréal, Tokyo, Beijing, Obninks, Toulouse and with an external link created for each new event

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

## **Operational Contact (24/7):**

Chief Forecaster - Toulouse

Tel: +33 5 6107 8540  
+33 5 6107 8262  
+33 5 6140 4979

Fax: +33 5 6107 8044  
+33 5 6107 8232  
+33 5 6107 8264

Email: [cmc@meteo.fr](mailto:cmc@meteo.fr)

**E-mails to Operational Contact should be confirmed by fax or telephone.**

## **Business Contact (office hours):**

Mr Jean Nicolau and Mr Jean-Paul Tonnelier  
RSMC TOULOUSE  
Météo-France  
Direction de la Prévision  
42 Av. G. Coriolis  
31057 TOULOUSE CEDEX  
France  
Tel: +33 5 6107 8210  
Fax: +33 5 6107 8209  
Email to: [pg\\_d@meteo.fr](mailto:pg_d@meteo.fr)  
Cc: [jean-paul.tonnelier@meteo.fr](mailto:jean-paul.tonnelier@meteo.fr)

## **Improvements made in 2011:**

### **Operational improvements:**

- Set up the common web site

### **Scientific improvements:**

- Restart MOCAGE run is operational
- PERLE IFS is operational

## **International exercises and events in 2011**

- **Fukushima emergency** :It was the main event of the year . (see [http://www.wmo.int/pages/prog/www/DPFSERA/Meetings/CG-NERA\\_Vienna2011/documents/Doc-5-5-France.doc](http://www.wmo.int/pages/prog/www/DPFSERA/Meetings/CG-NERA_Vienna2011/documents/Doc-5-5-France.doc) .)
- **Hungarian emergency** : RSMC TOULOUSE respond to the AIEA request of November the 15<sup>th</sup>
- **CTBTO** : RSMC Toulouse took part in 51 CTBTO requests (exercices or real events) with the new "MOCAGE Accident" model, tailored for CTBTO retroplume. The answers to CTBTO were delivered in a timely fashion.
- **IAEA quarterly tests and communications tests**: RSMC Toulouse took part in all tests.

## **International exercises in 2011**

- RSMC Toulouse will take part in all IAEA emergencies requests, tests and exercices, and in all CTBTO requests.

## **Plans for improvements in 2012**

- Development of "time of arrival" new product (as soon as the RSMC expert group will set up a standard for this product).
- RSMC TOULOUSE will take part in WMO RSMC Ensemble Exercise

\* \* \*