METEO FRANCE
Toujours un temps d'avance

METEO-FRANCE TOULOUSE, FRANCE

RSMC for Environmental Emergency Response

FAX : +33 5 61 07 80 44

Telephone : +33 5 61 07 80 42

Time : 0838 UTC Date : 22 Jan 2016

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

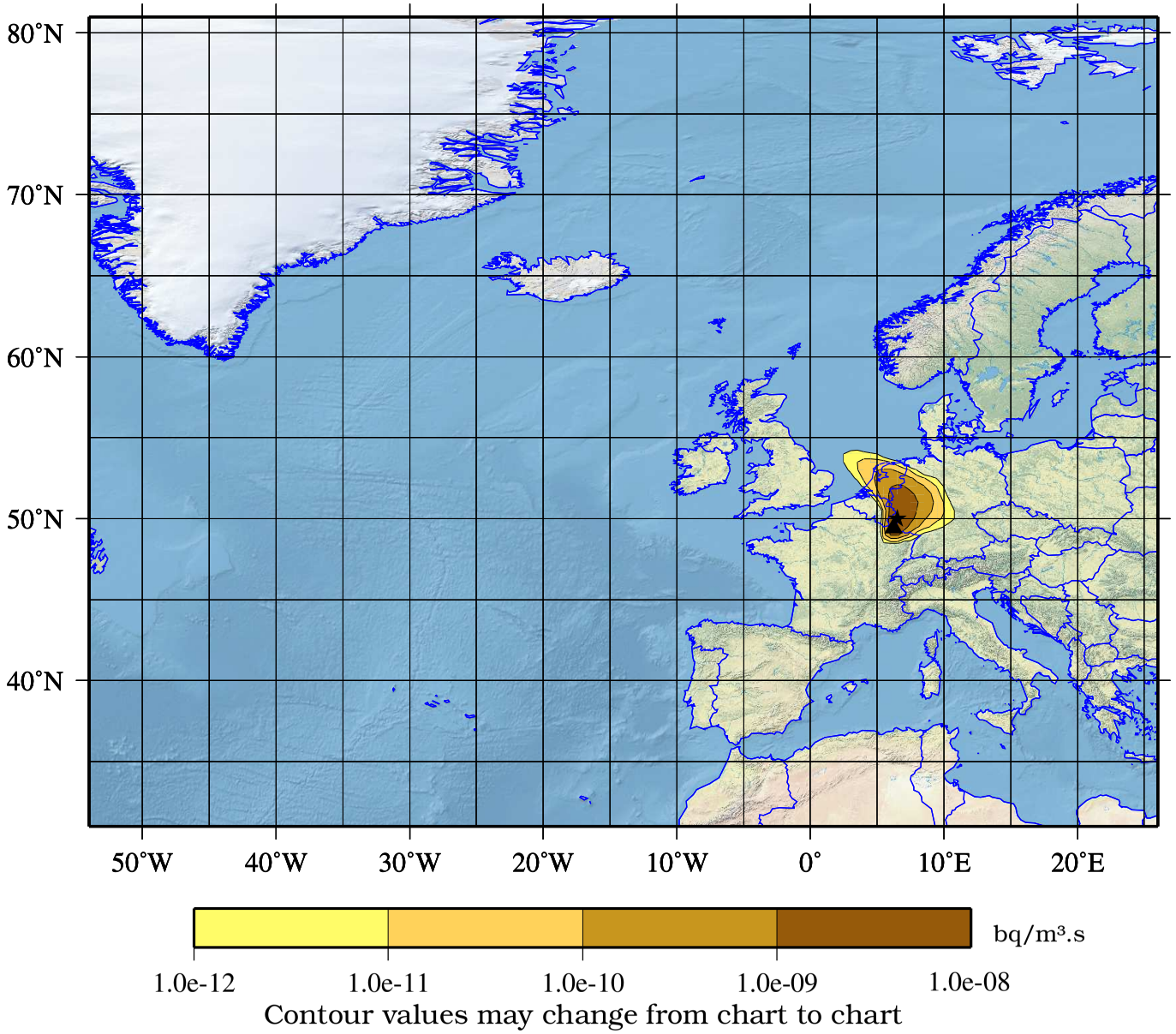
Release Time date : 10 UTC 05 Jan 2016
Release Location in decimal degrees : 49.41577N 6.21843E
Location name (if known) : CATTENOM
Emission duration : 03h00
Emission (per hour) : 1.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ARPEGE
Dispersion Model : Mocage

Attached are 7 charts consisting of :
(1) **Trajectories of air particles** starting at 500, 1500 and 3000 metres above the ground. The plan view indicates the horizontal spread, while the side view indicates the vertical motion of the trajectories.
(2-4) Charts for three successive time intervals of the **time-integrated pollution concentration (or exposure)** averaged over the layer between the surface and 500m in units of Becquerel.seconds per cubic metre (Bq.s/m3).
(5-7) A chart of the **total surface deposition** (wet + dry) from the release time to the end of the third time period in units of Bequerel per square metre (Bq/m2)
For charts 2-7, a legend indicates the values associated with particular shadings.

Number of pages (including cover sheet) = 8

CATTENOM Test 05/01/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 14 hours
valid 06/01/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

-
-

RELEASE DATA
Site : CATTENOM
Emission start : 05/01/2016 10h00 UTC
Release duration : 03h00
Lat : 49.41577 N ; 49º24'56" N
Lon : 6.21843 E ; 6º13'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/01/2016 00UTC

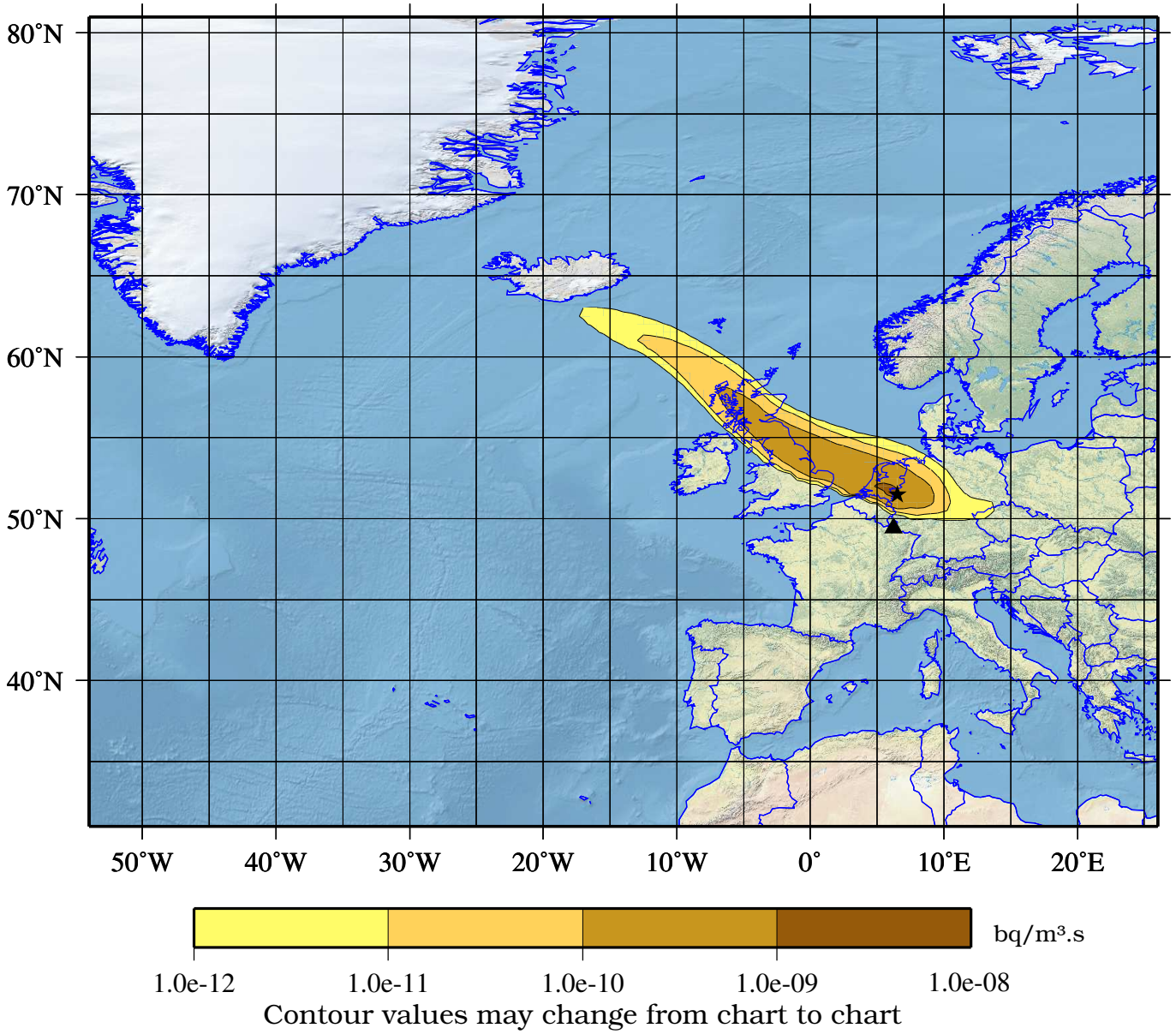
Max value for current step :
6.4121e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/01/2016 10:47:10 UTC

CATTENOM Test 05/01/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 07/01/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

-
-

RELEASE DATA
Site : CATTENOM
Emission start : 05/01/2016 10h00 UTC
Release duration : 03h00
Lat : 49.41577 N ; 49º24'56" N
Lon : 6.21843 E ; 6º13'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/01/2016 00UTC

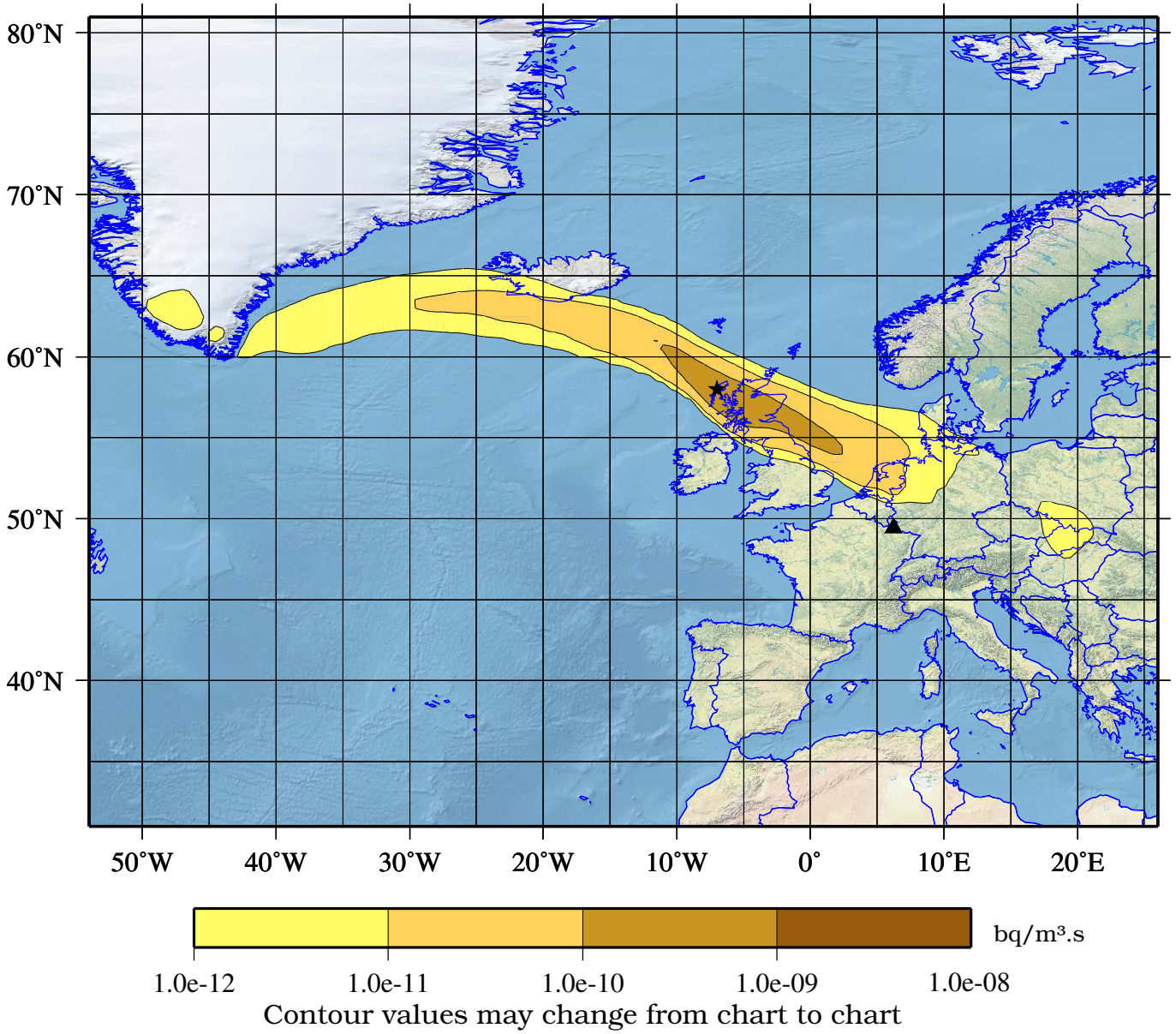
Max value for current step :
1.21339e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/01/2016 10:47:10 UTC

CATTENOM Test 05/01/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 08/01/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

-
-

RELEASE DATA
Site : CATTENOM
Emission start : 05/01/2016 10h00 UTC
Release duration : 03h00
Lat : 49.41577 N ; 49º24'56" N
Lon : 6.21843 E ; 6º13'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/01/2016 00UTC

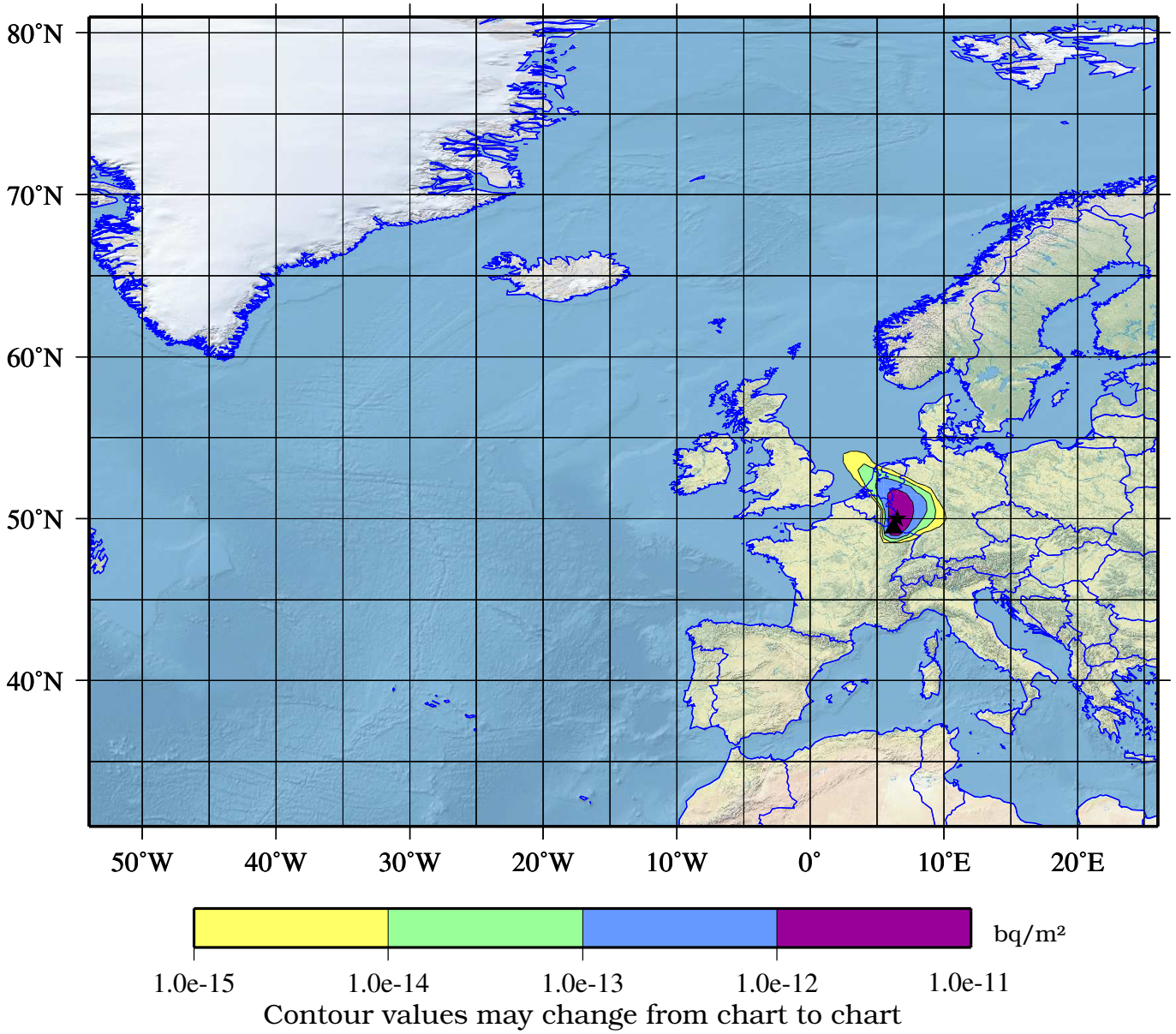
Max value for current step :
3.2961e-10 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/01/2016 10:47:10 UTC

CATTENOM Test 05/01/2016

Total deposition (bq/m²)
from release start
valid 06/01/2016 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ARPEGE

-
-

RELEASE DATA

Site : CATTENOM
Emission start : 05/01/2016 10h00 UTC
Release duration : 03h00
Lat : 49.41577 N ; 49º24'56" N
Lon : 6.21843 E ; 6º13'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
05/01/2016 00UTC

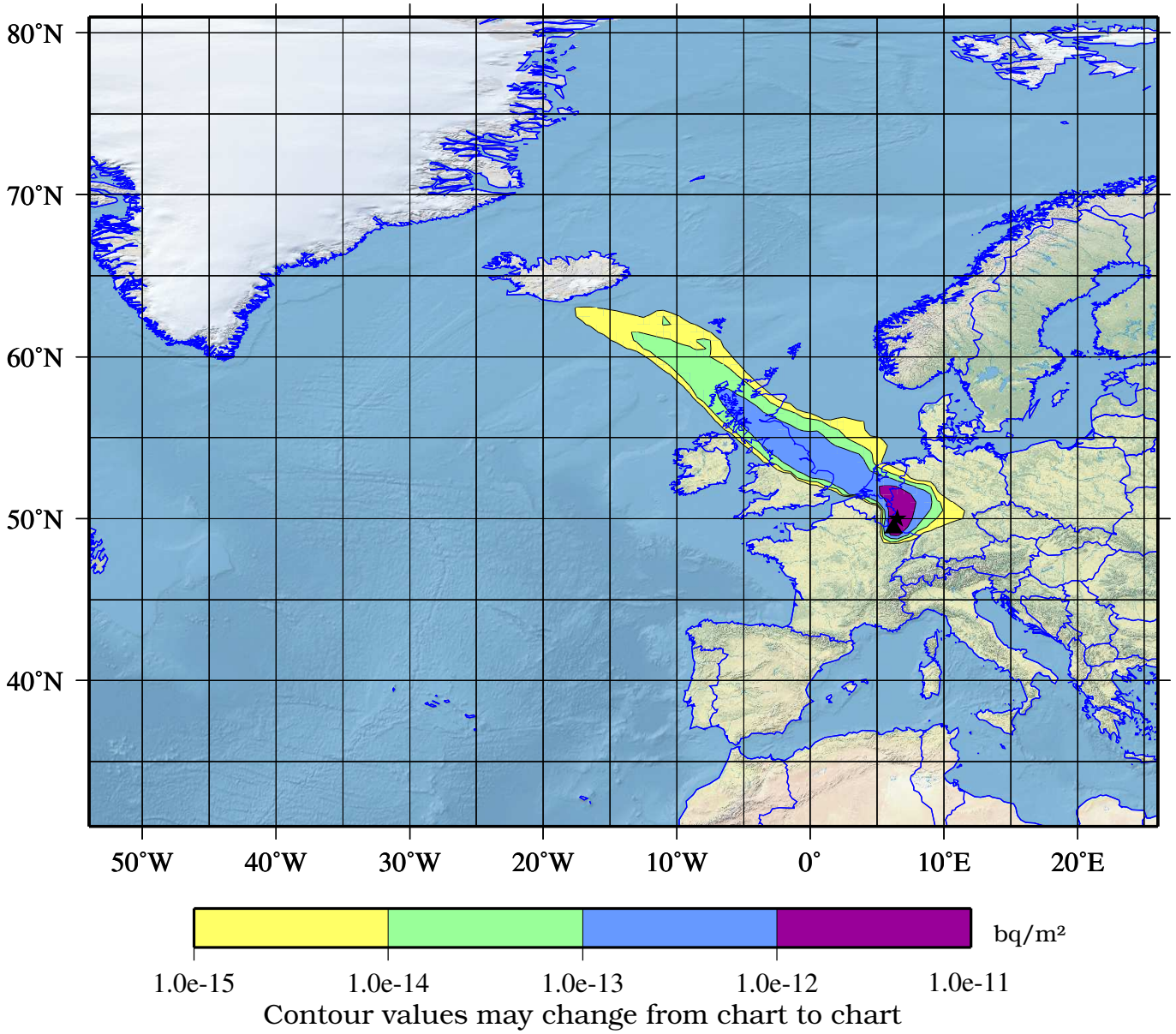
Max value for current step :
7.27044e-12 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/01/2016 10:47:10 UTC

CATTENOM Test 05/01/2016

Total deposition (bq/m²)
from release start
valid 07/01/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

-
-

RELEASE DATA
Site : CATTENOM
Emission start : 05/01/2016 10h00 UTC
Release duration : 03h00
Lat : 49.41577 N ; 49º24'56" N
Lon : 6.21843 E ; 6º13'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/01/2016 00UTC

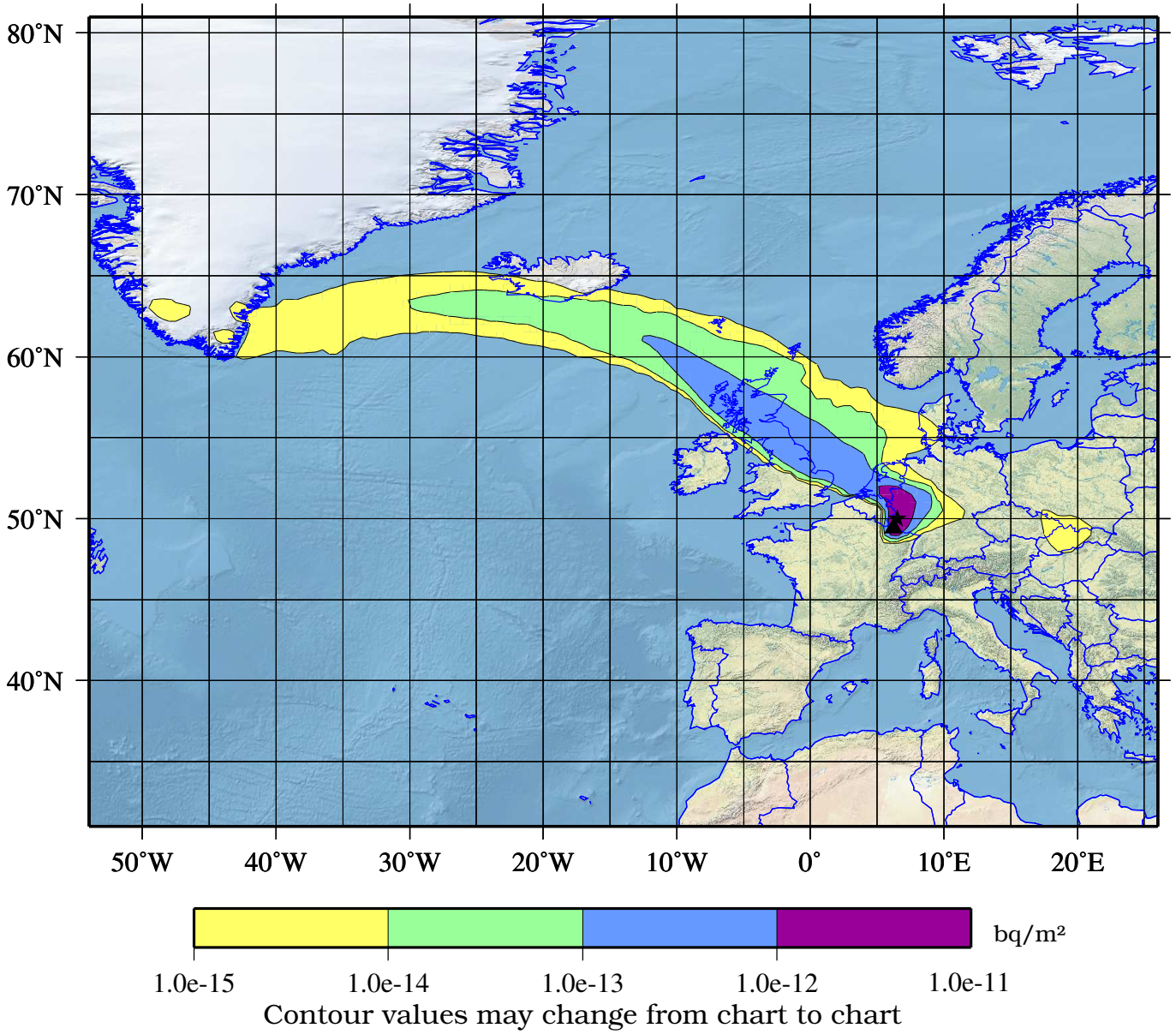
Max value for current step :
7.27044e-12 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/01/2016 10:47:10 UTC

CATTENOM Test 05/01/2016

Total deposition (bq/m²)
from release start
valid 08/01/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

-
-

RELEASE DATA
Site : CATTENOM
Emission start : 05/01/2016 10h00 UTC
Release duration : 03h00
Lat : 49.41577 N ; 49º24'56" N
Lon : 6.21843 E ; 6º13'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/01/2016 00UTC

Max value for current step :
7.27044e-12 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/01/2016 10:47:10 UTC