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 : 1308 UTC Date : 17 Oct 2017

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

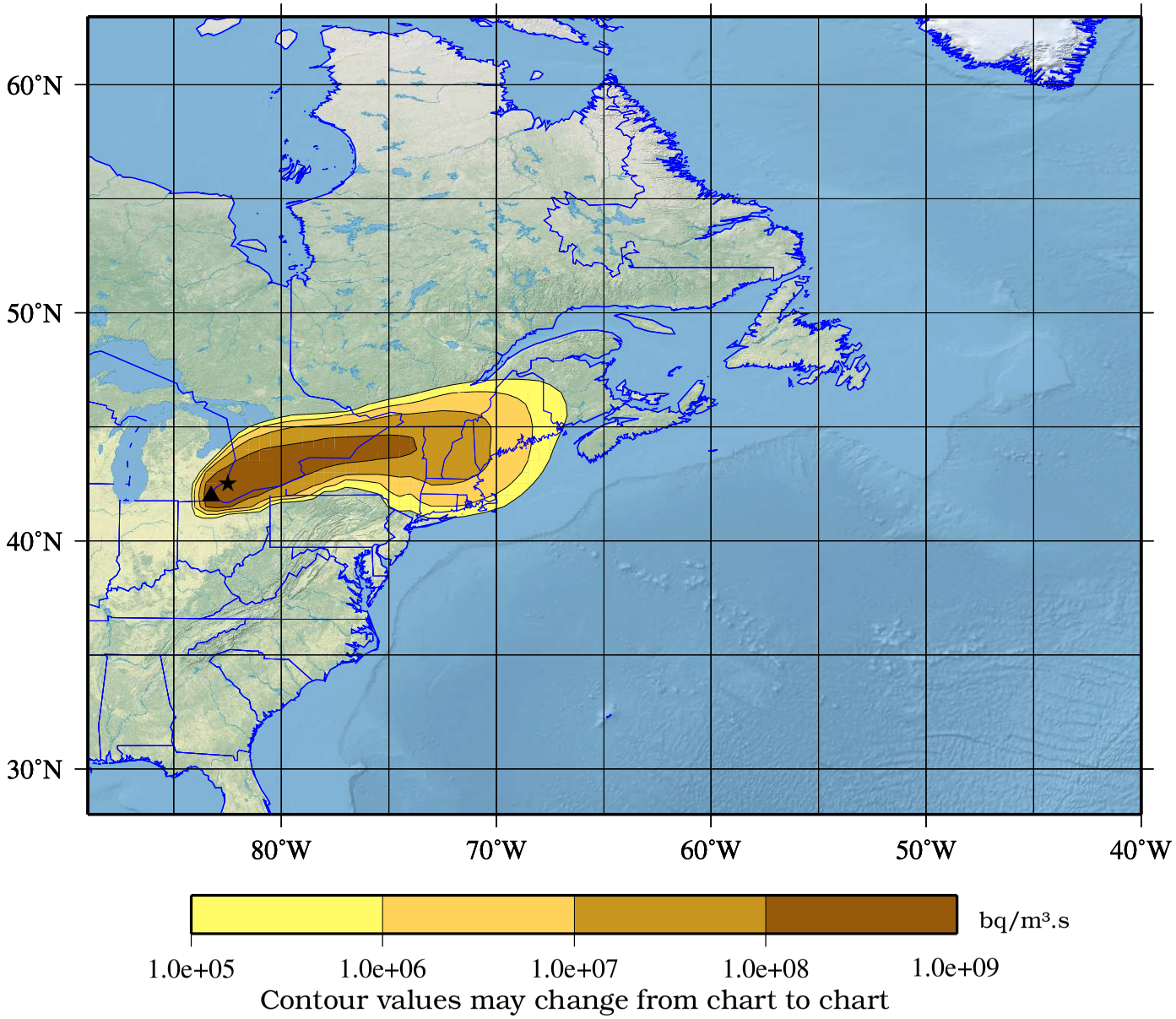
Release Time date : 12 UTC 17 Oct 2017
Release Location in decimal degrees : 41.96292N 83.25777W
Location name (if known) : ENRICO_FERMI_NUCLEAR
Emission duration : 04h00
Emission (per hour) : 12499992000.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ECMWF
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

ENRICO FERMI NUCLEAR Exercise 17/10/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 18/10/2017 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

-
-

RELEASE DATA

Site : ENRICO FERMI NUCLEAR
Emission start : 17/10/2017 12h00 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 1.2e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
17/10/2017 00UTC

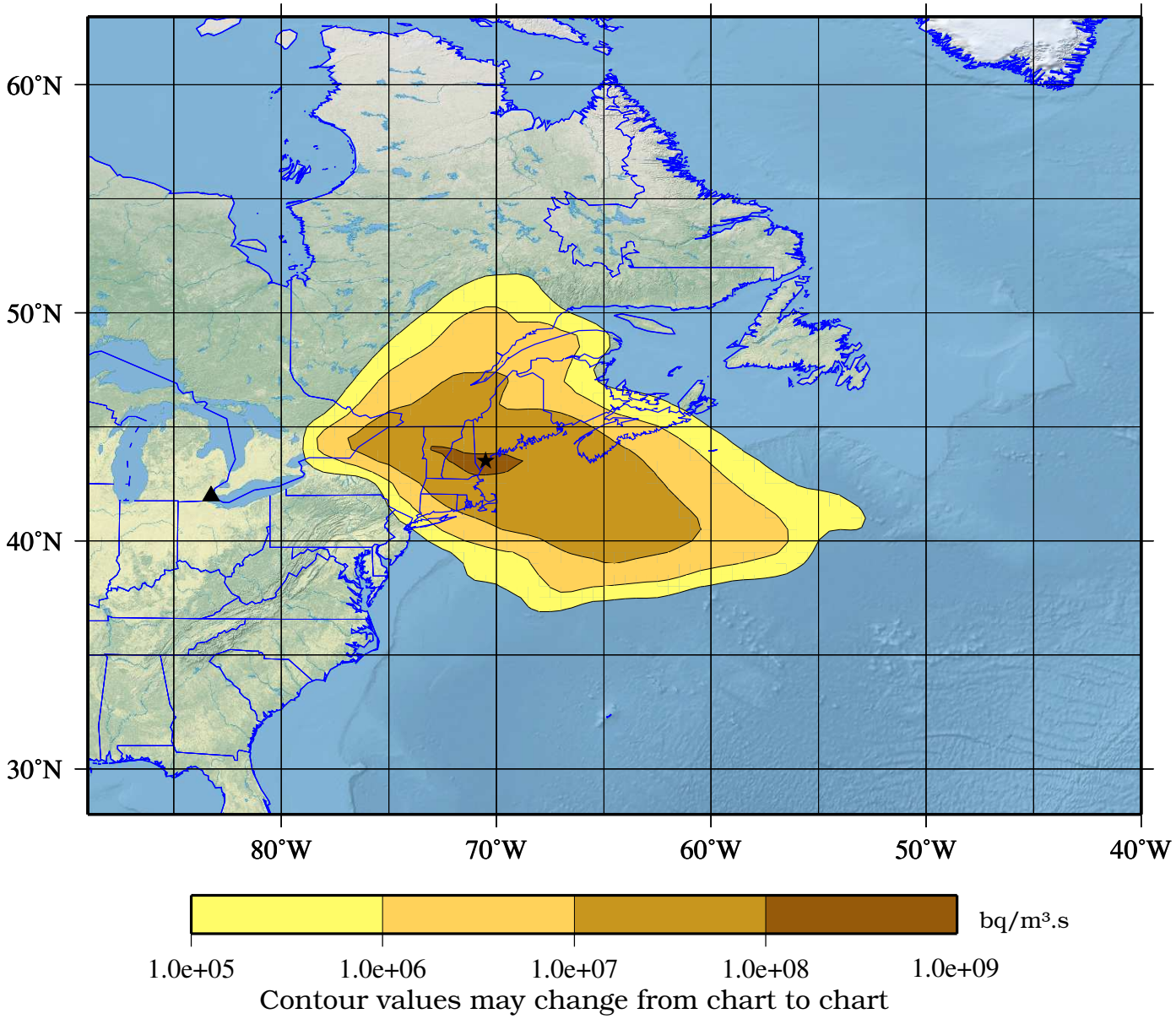
Max value for current step :
567545000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/10/2017 12:56:43 UTC

ENRICO FERMI NUCLEAR Exercise 17/10/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/10/2017 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

-
-

RELEASE DATA
Site : ENRICO FERMI NUCLEAR
Emission start : 17/10/2017 12h00 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 1.2e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/10/2017 00UTC

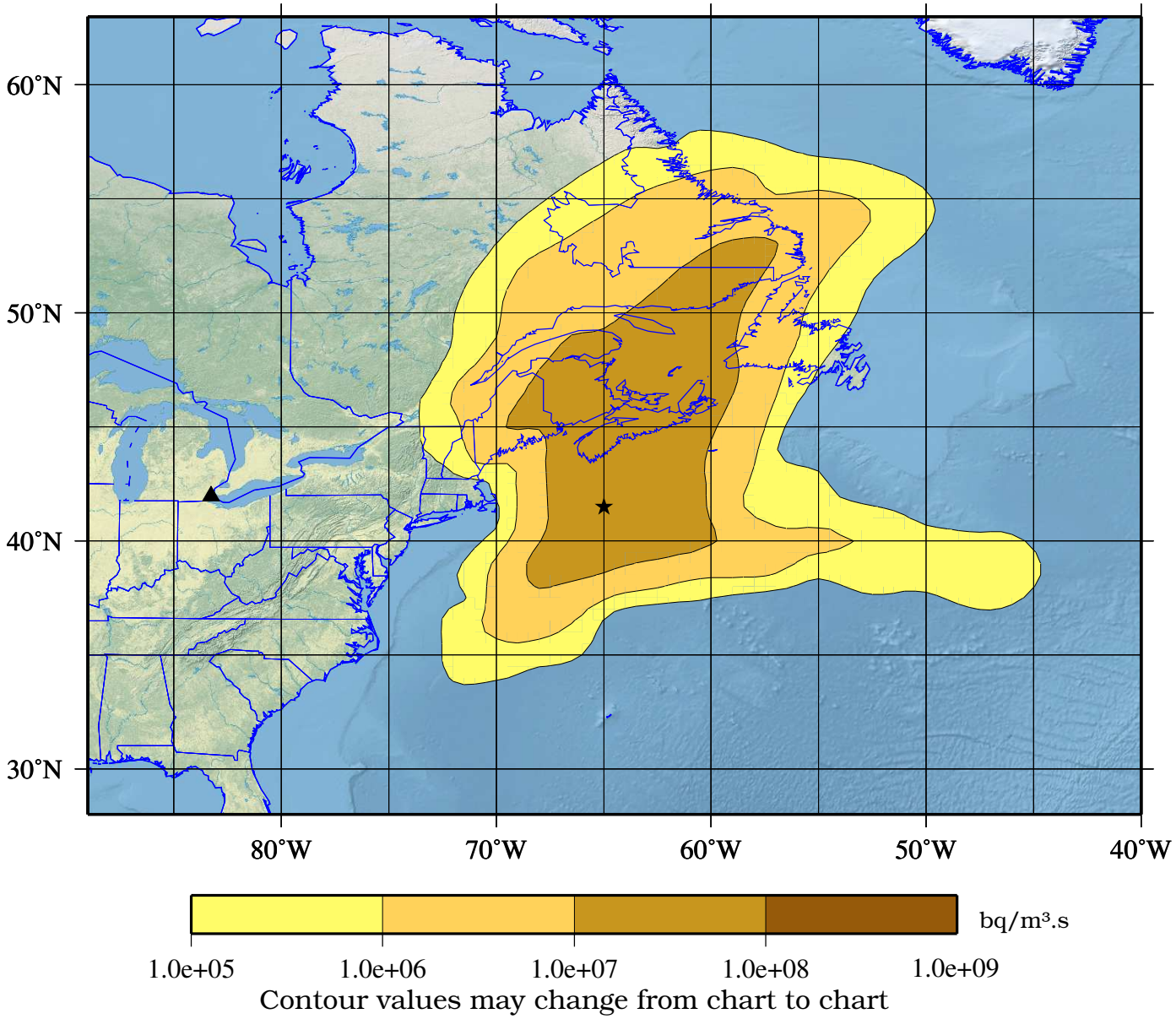
Max value for current step :
121339000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/10/2017 12:56:43 UTC

ENRICO FERMI NUCLEAR Exercise 17/10/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/10/2017 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

-
-

RELEASE DATA
Site : ENRICO FERMI NUCLEAR
Emission start : 17/10/2017 12h00 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 1.2e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/10/2017 00UTC

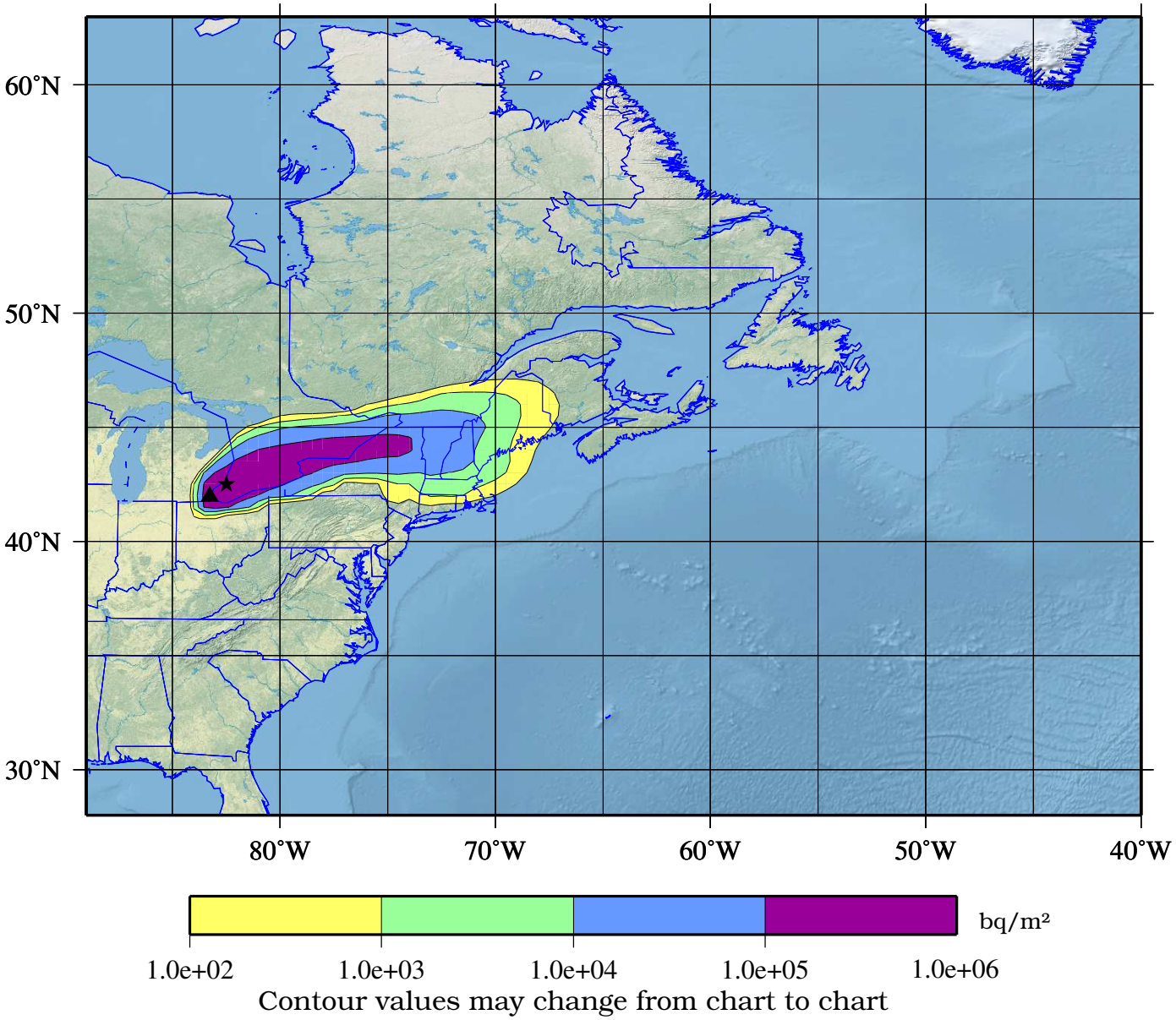
Max value for current step :
57016400 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/10/2017 12:56:43 UTC

ENRICO FERMI NUCLEAR Exercise 17/10/2017

Total deposition (bq/m²)
from release start
valid 18/10/2017 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

-
-

RELEASE DATA
Site : ENRICO FERMI NUCLEAR
Emission start : 17/10/2017 12h00 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 1.2e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/10/2017 00UTC

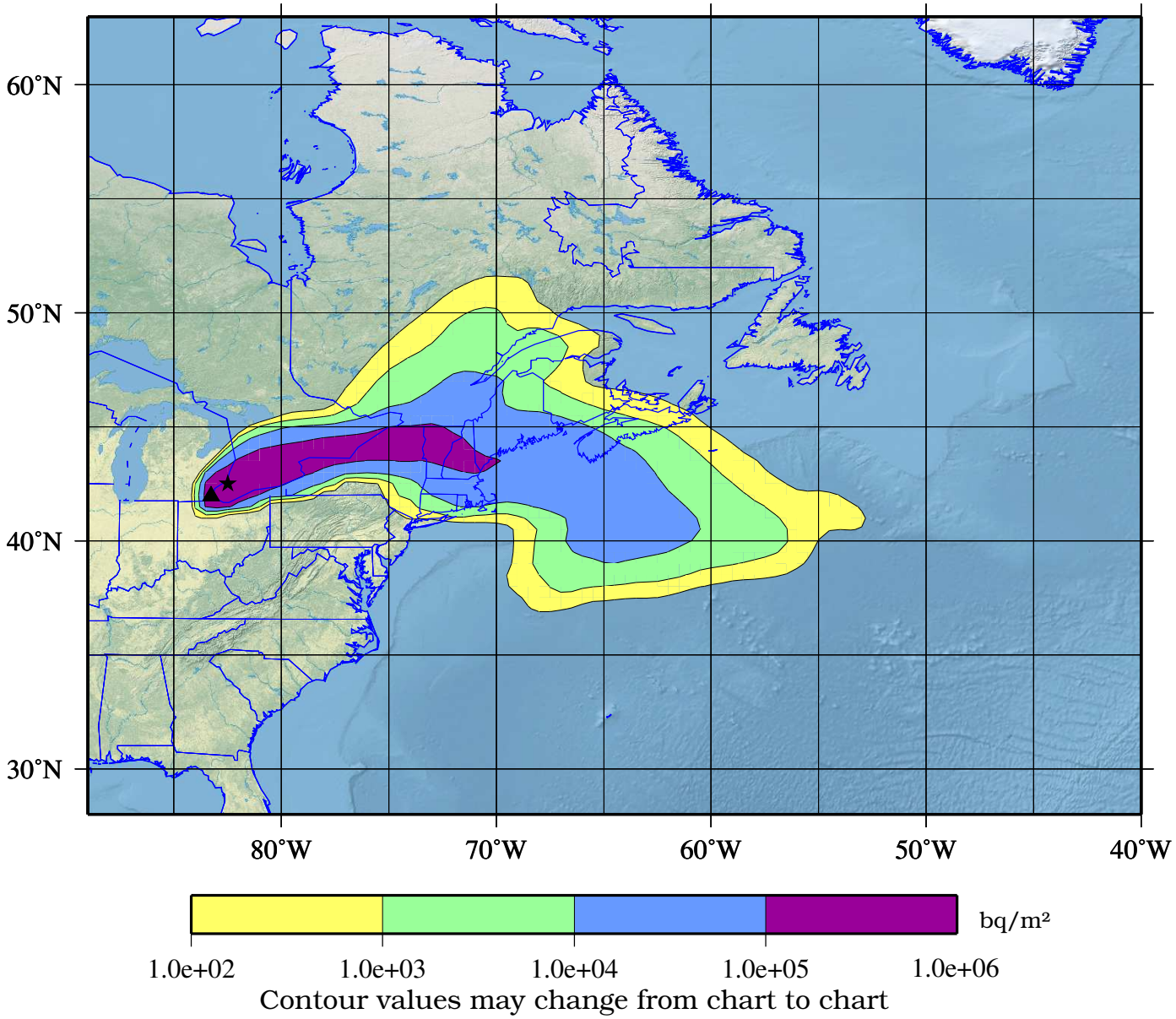
Max value for current step :
587508 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/10/2017 12:56:43 UTC

ENRICO FERMI NUCLEAR Exercise 17/10/2017

Total deposition (bq/m²)
from release start
valid 19/10/2017 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

-
-

RELEASE DATA
Site : ENRICO FERMI NUCLEAR
Emission start : 17/10/2017 12h00 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 1.2e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/10/2017 00UTC

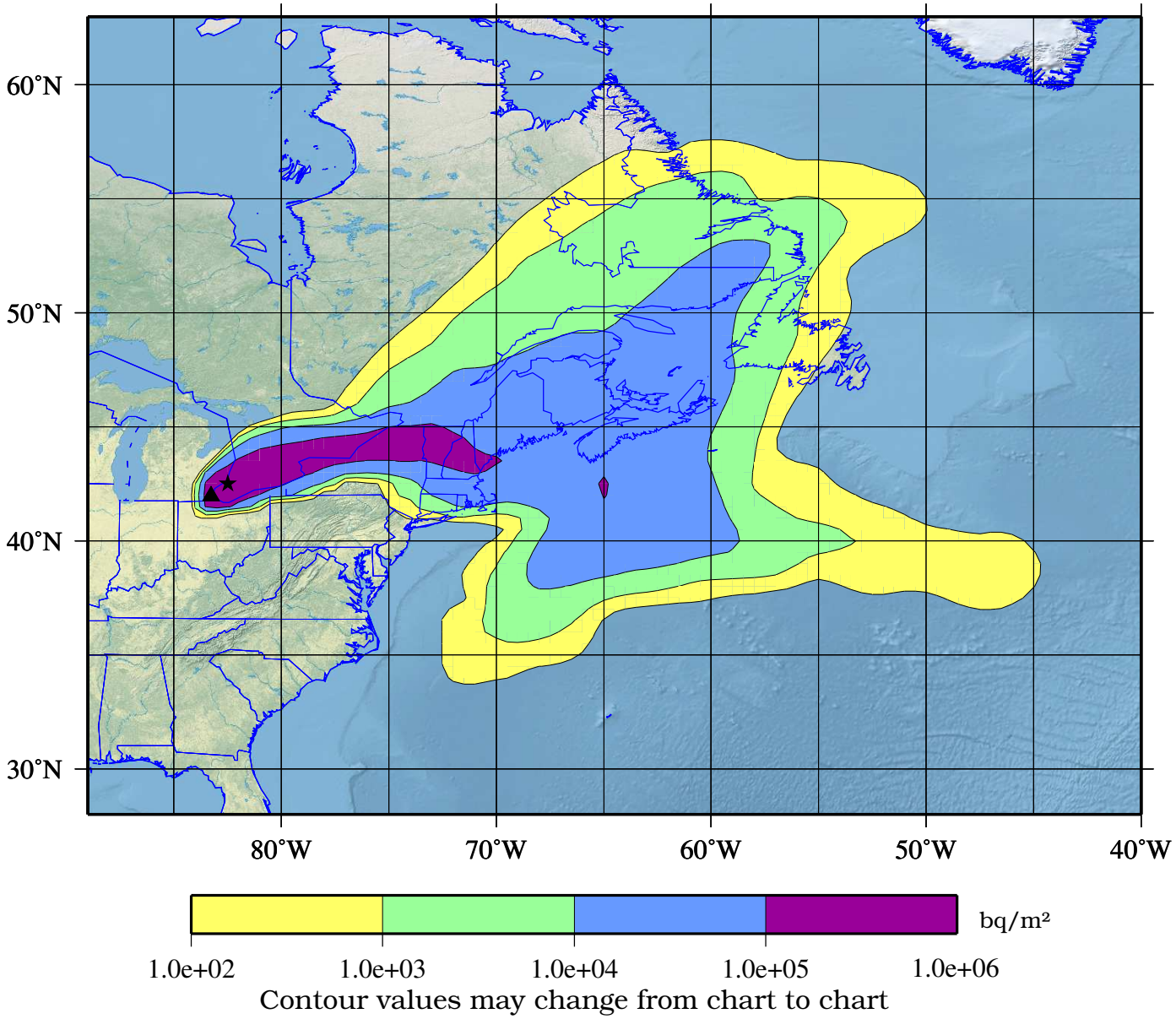
Max value for current step :
587508 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/10/2017 12:56:43 UTC

ENRICO FERMI NUCLEAR Exercise 17/10/2017

Total deposition (bq/m²)
from release start
valid 20/10/2017 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

-
-

RELEASE DATA
Site : ENRICO FERMI NUCLEAR
Emission start : 17/10/2017 12h00 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 1.2e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/10/2017 00UTC

Max value for current step :
587508 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/10/2017 12:56:43 UTC