METEO FRANCE
Toujours un temps d'avance

METEO-FRANCE TOULOUSE, FRANCE

RSMC for Environmental Emergency Response

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Telephone : +33 5 61 07 80 42

Time : 1602 UTC Date : 21 Feb 2017

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

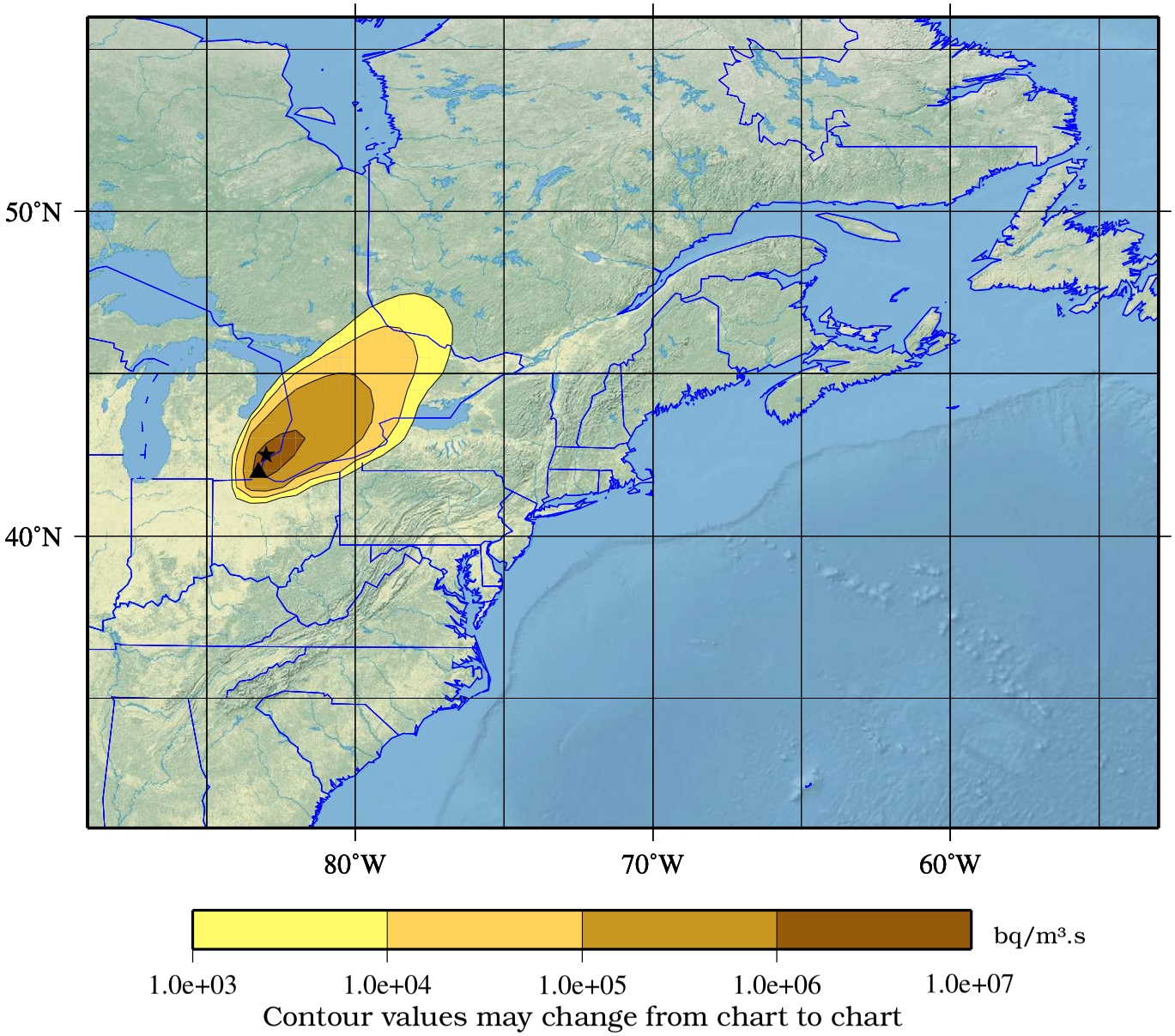
Release Time date : 10 UTC 21 Feb 2017
Release Location in decimal degrees : 41.96292N 83.25777W
Location name (if known) : ENRICO_FERMI
Emission duration : 04h00
Emission (per hour) : 23000004000.0000 bq
Substance released : I-131
Vertical distribution : Uniform 0 - 400 m (AGL)
Meteorological Model : 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 Exercise 21/02/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 14 hours
valid 22/02/2017 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : ENRICO FERMI
Emission start : 21/02/2017 10h30 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 2.3e+14 bq/h
Base : 0m
Top : 400m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
21/02/2017 00UTC

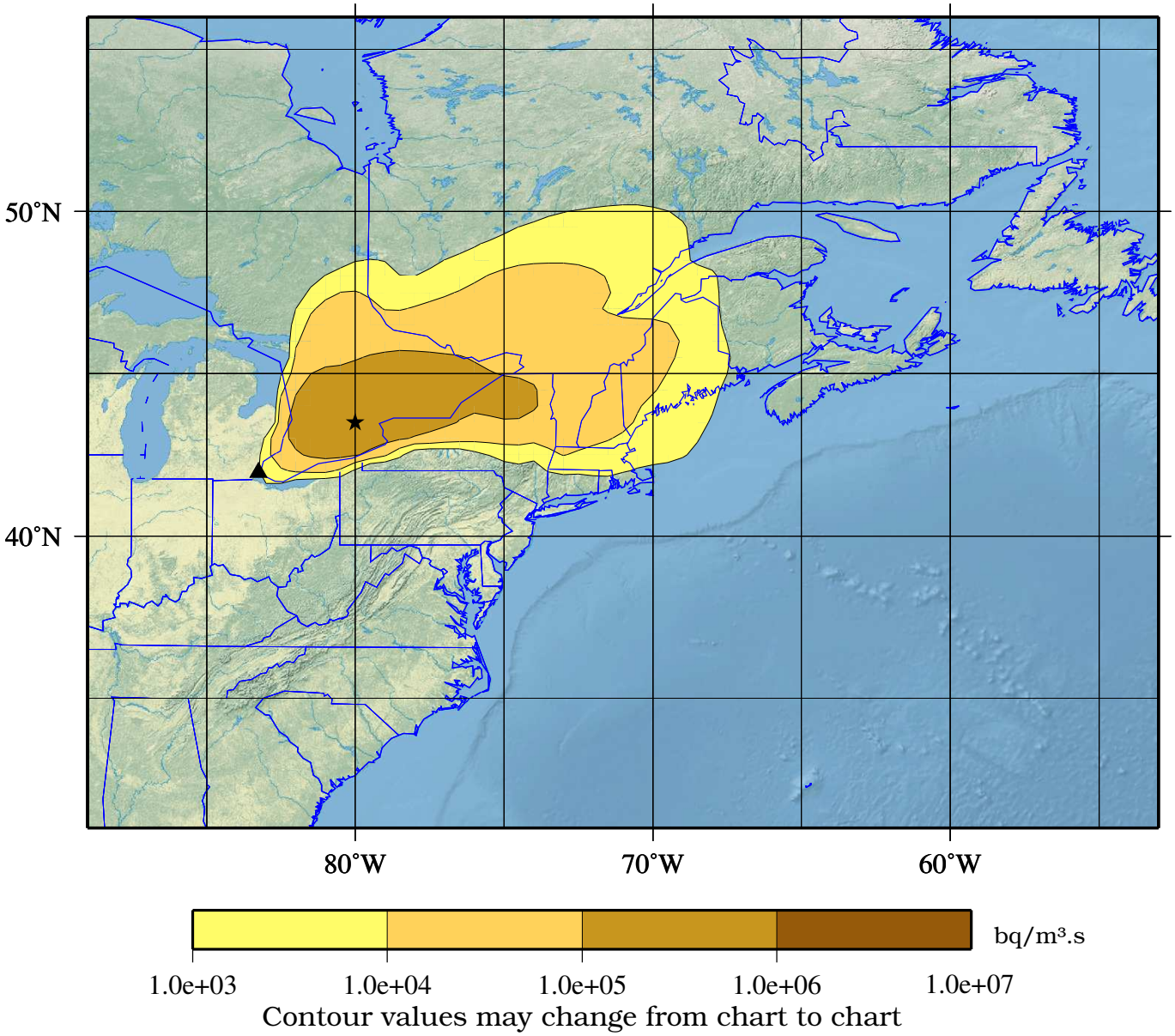
Max value for current step :
1713960 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/02/2017 15:55:13 UTC

ENRICO FERMI Exercise 21/02/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 23/02/2017 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : ENRICO FERMI
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Release duration : 04h00
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Lon : 83.2578 W ; 83º15'27" W
Emission rate : 2.3e+14 bq/h
Base : 0m
Top : 400m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
21/02/2017 00UTC

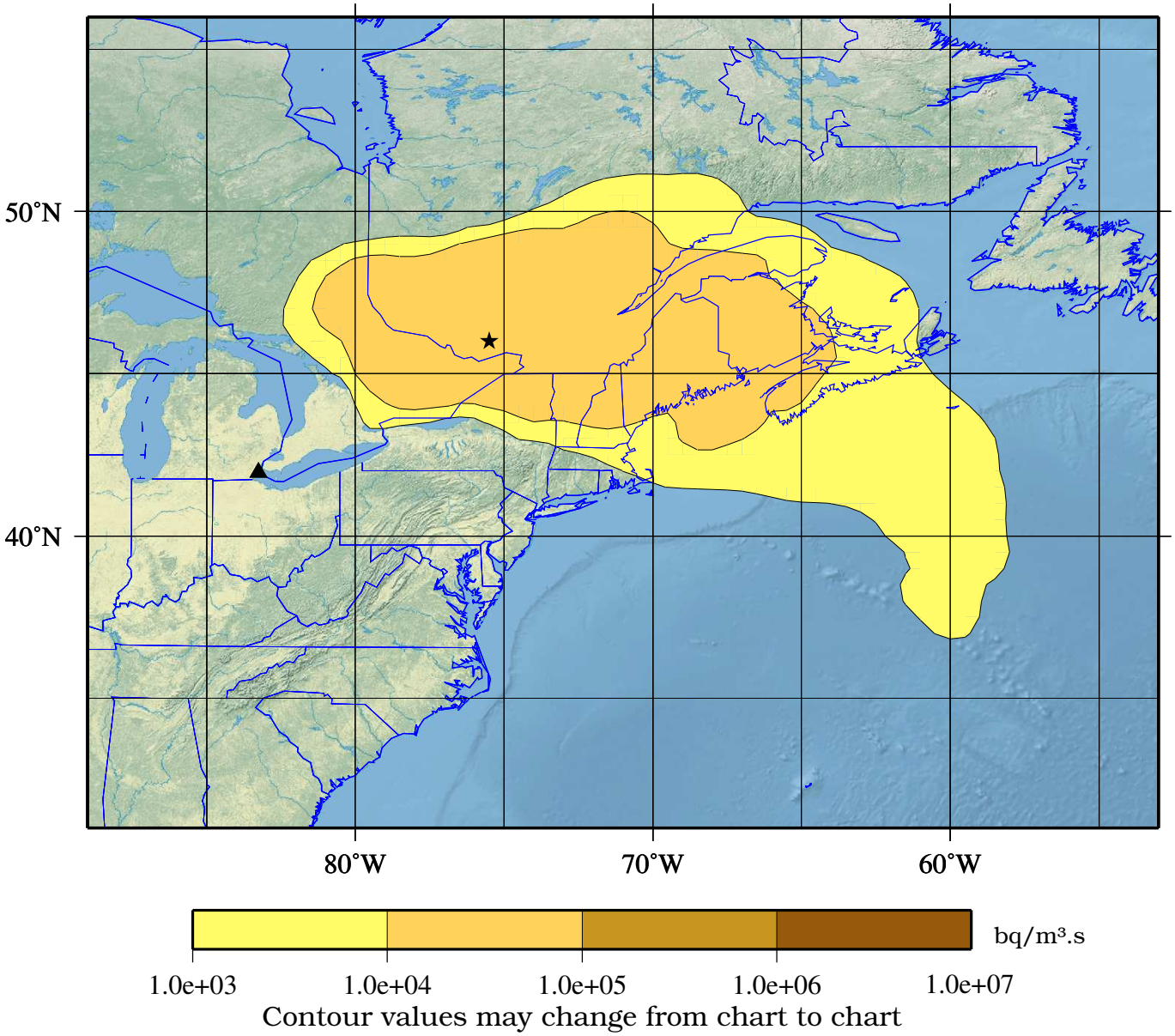
Max value for current step :
636796 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/02/2017 15:55:13 UTC

ENRICO FERMI Exercise 21/02/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 24/02/2017 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : ENRICO FERMI
Emission start : 21/02/2017 10h30 UTC
Release duration : 04h00
Lat : 41.96292 N ; 41º57'46" N
Lon : 83.2578 W ; 83º15'27" W
Emission rate : 2.3e+14 bq/h
Base : 0m
Top : 400m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
21/02/2017 00UTC

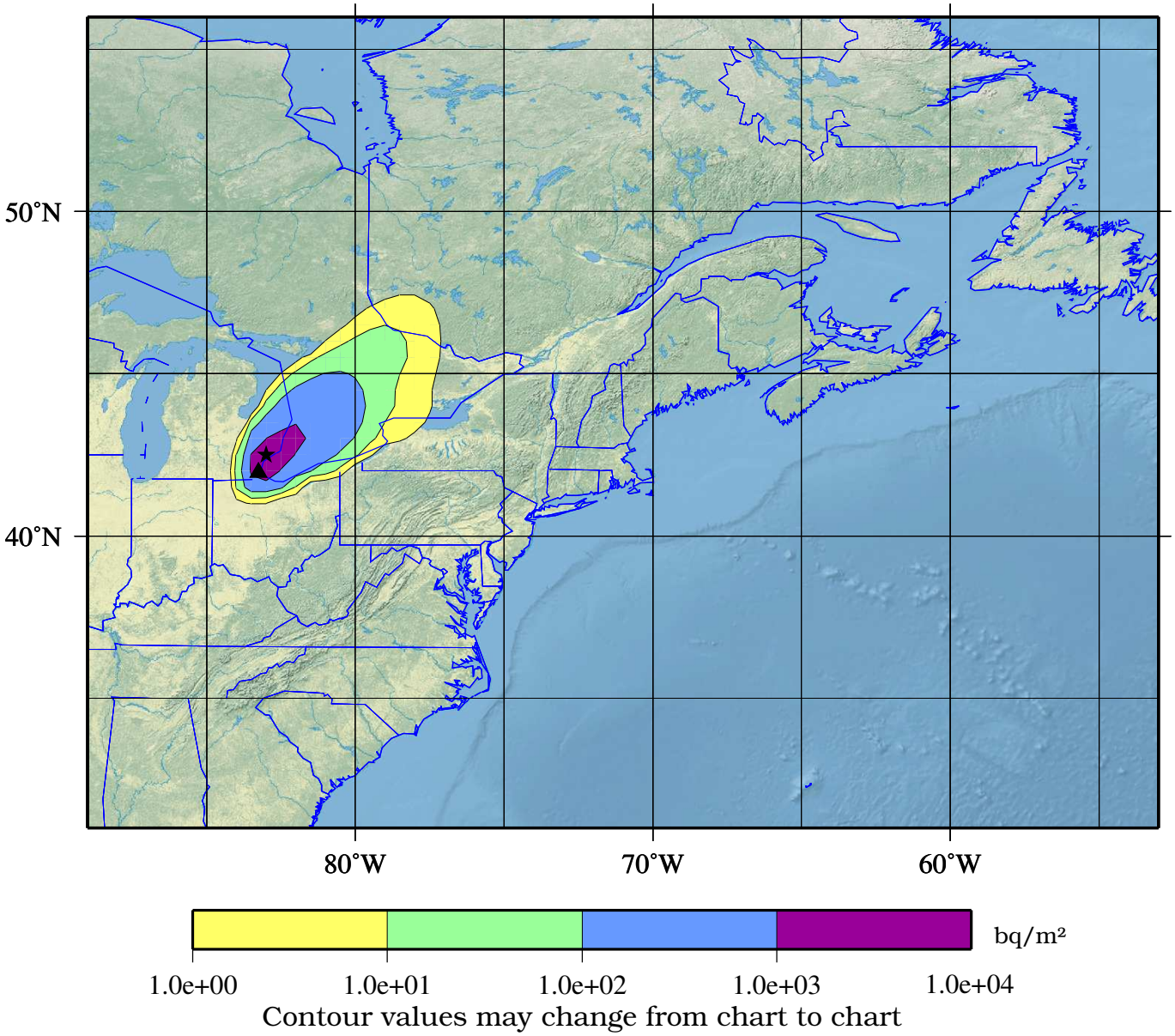
Max value for current step :
88511.6 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/02/2017 15:55:13 UTC

ENRICO FERMI Exercise 21/02/2017

Total deposition (bq/m²)
from release start
valid 22/02/2017 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
21/02/2017 00UTC

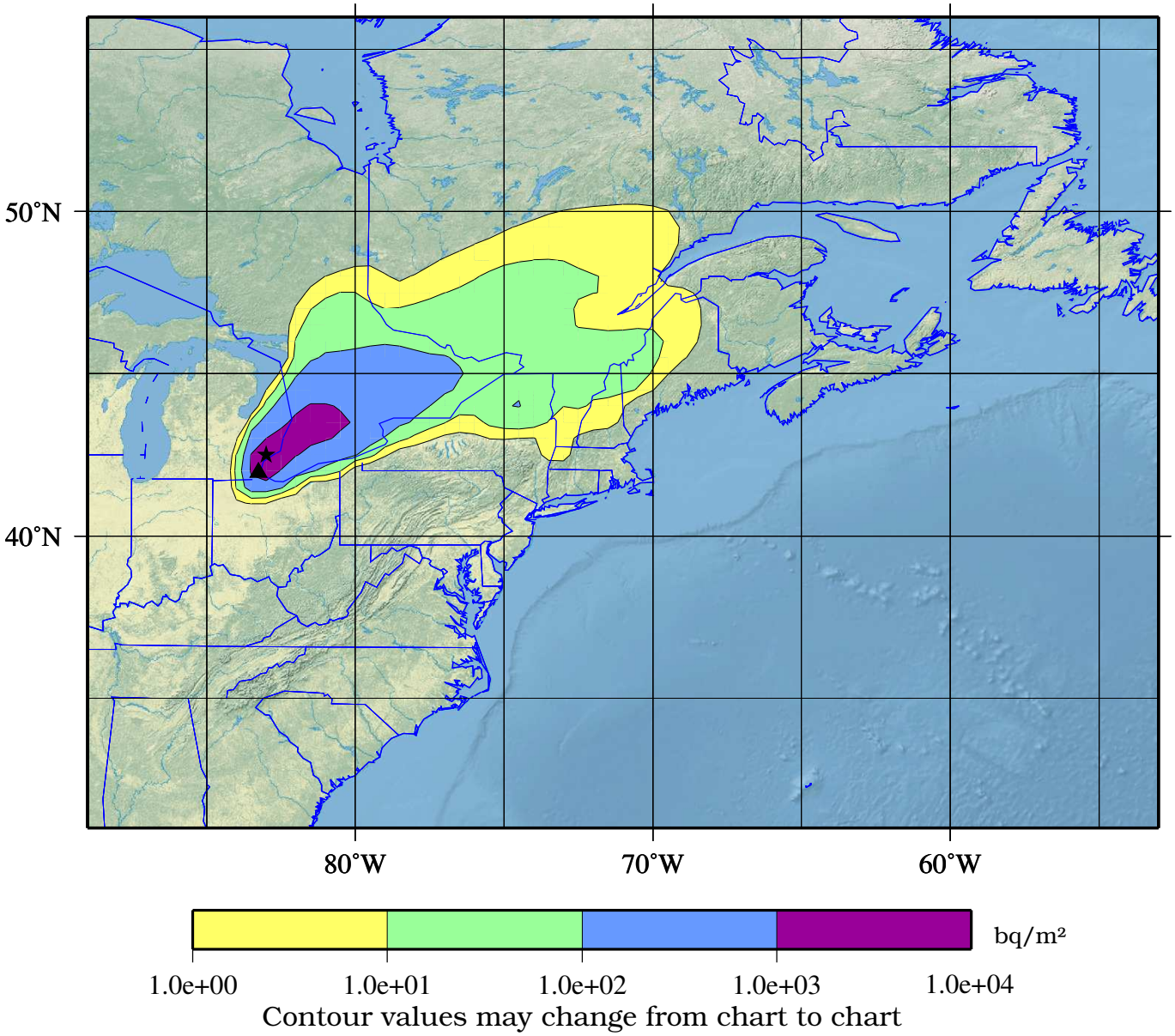
Max value for current step :
2137.96 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/02/2017 15:55:13 UTC

ENRICO FERMI Exercise 21/02/2017

Total deposition (bq/m²)
from release start
valid 23/02/2017 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Base : 0m
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Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
21/02/2017 00UTC

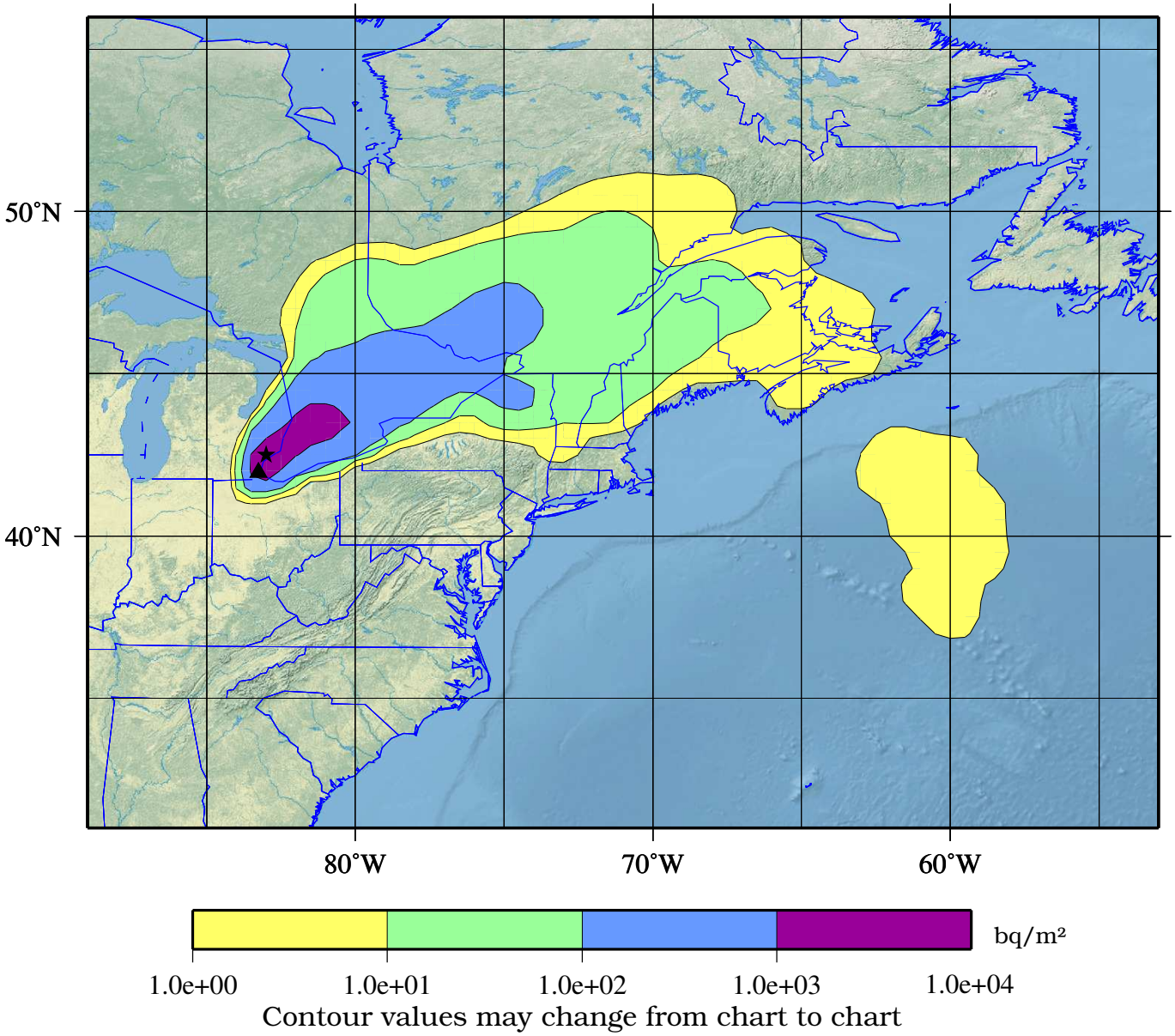
Max value for current step :
2152.78 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/02/2017 15:55:13 UTC

ENRICO FERMI Exercise 21/02/2017

Total deposition (bq/m²)
from release start
valid 24/02/2017 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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21/02/2017 00UTC

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Source position ▲

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Issued 21/02/2017 15:55:13 UTC