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 : 1456 UTC Date : 21 Jan 2020

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

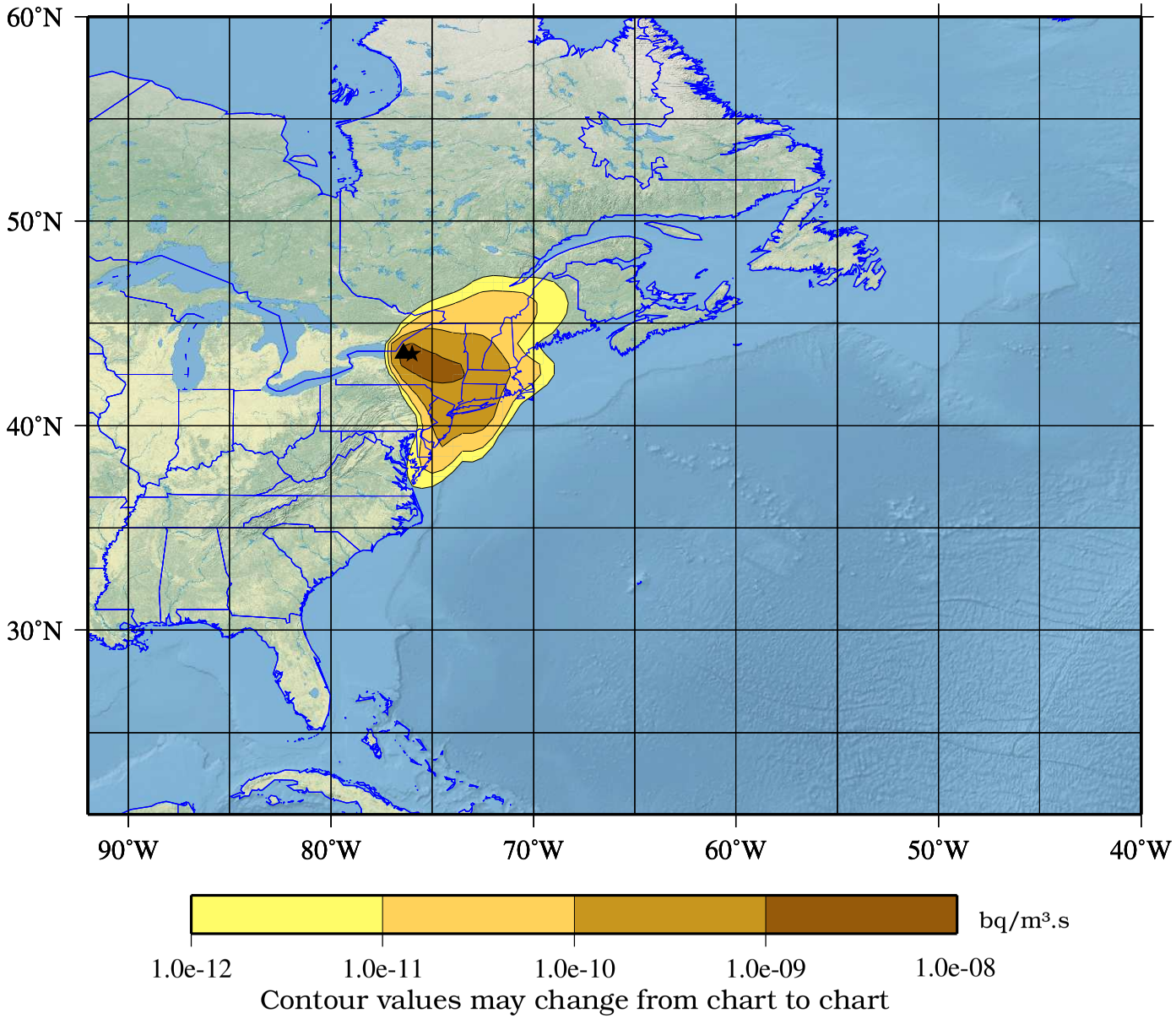
Release Time date : 12 UTC 21 Jan 2020
Release Location in decimal degrees : 43.52139N 76.40861W
Location name (if known) : Point
Emission duration : 01h00
Emission (per hour) : 1.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ECMWF
Dispersion 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

Point choNine Mile Point, NY, USA Exercise 21/01/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 22/01/2020 12h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : Point choNine Mile Point, NY, USA
Emission start : 21/01/2020 12h00 UTC
Release duration : 01h
Lat : 43.52139 N ; 43º31'17" N
Lon : 76.4086 W ; 76º24'30" W
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
21/01/2020 00UTC

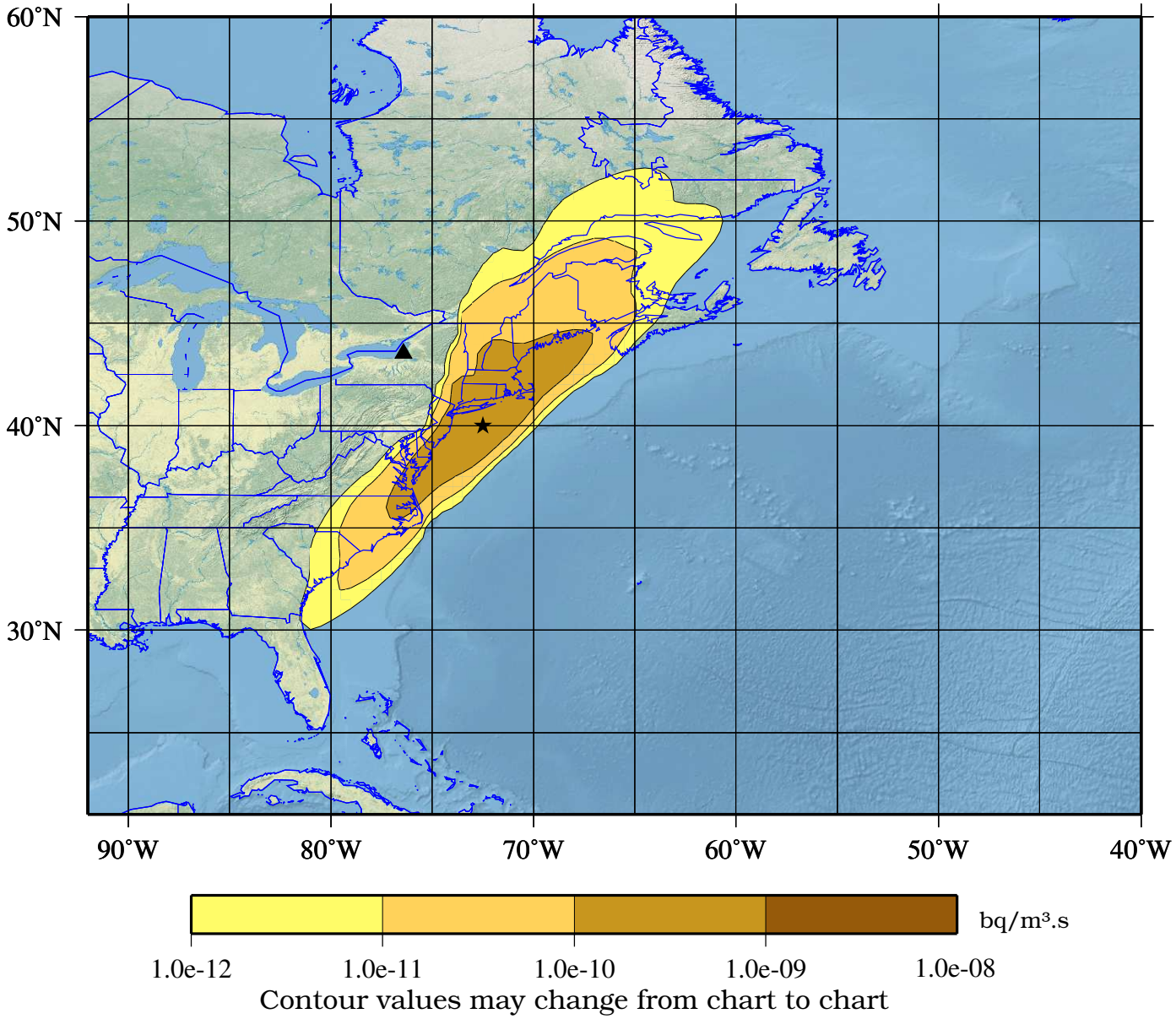
Max value for current step :
2.50611e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/01/2020 14:52:00 UTC

Point choNine Mile Point, NY, USA Exercise 21/01/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 23/01/2020 12h00 UTC



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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
21/01/2020 00UTC

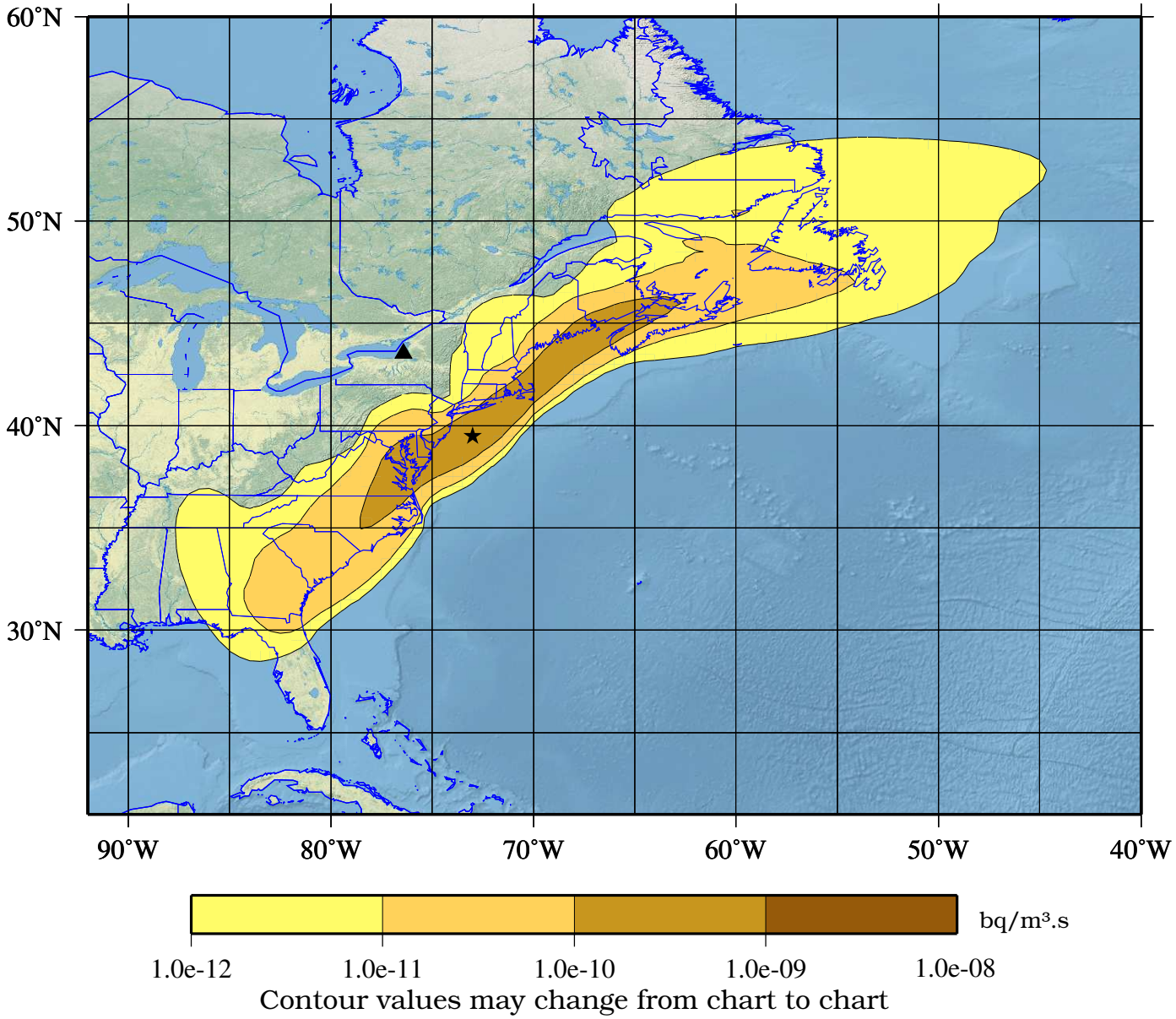
Max value for current step :
8.89201e-10 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/01/2020 14:52:00 UTC

Point choNine Mile Point, NY, USA Exercise 21/01/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 24/01/2020 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
21/01/2020 00UTC

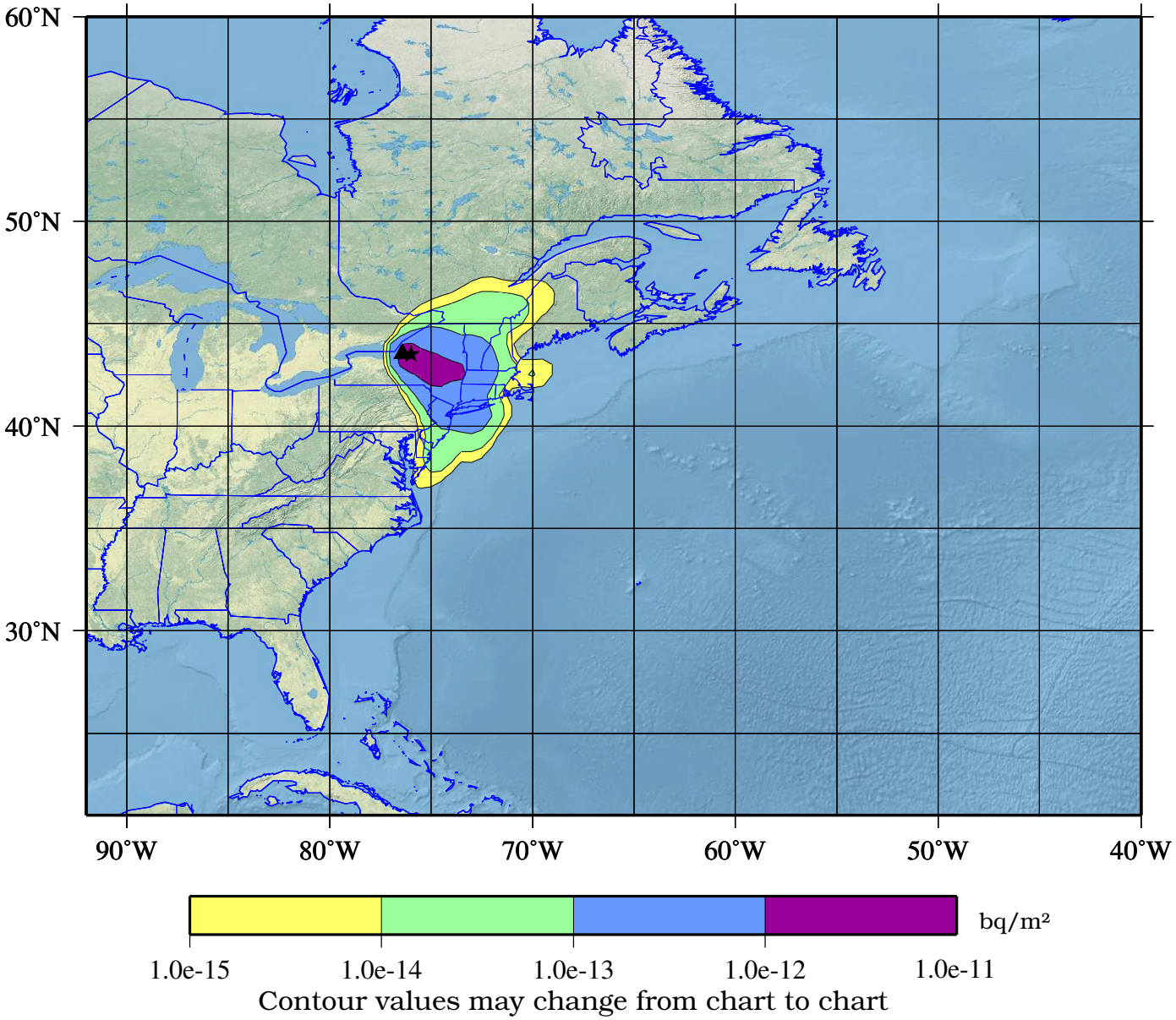
Max value for current step :
3.57273e-10 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/01/2020 14:52:00 UTC

Point choNine Mile Point, NY, USA Exercise 21/01/2020

Total deposition (bq/m²)
from release start
valid 22/01/2020 12h00 UTC



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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
21/01/2020 00UTC

Max value for current step :
2.72275e-12 bq/m²

Max position ★
Source position ▲

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TOULOUSE RSMC
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Point choNine Mile Point, NY, USA Exercise 21/01/2020

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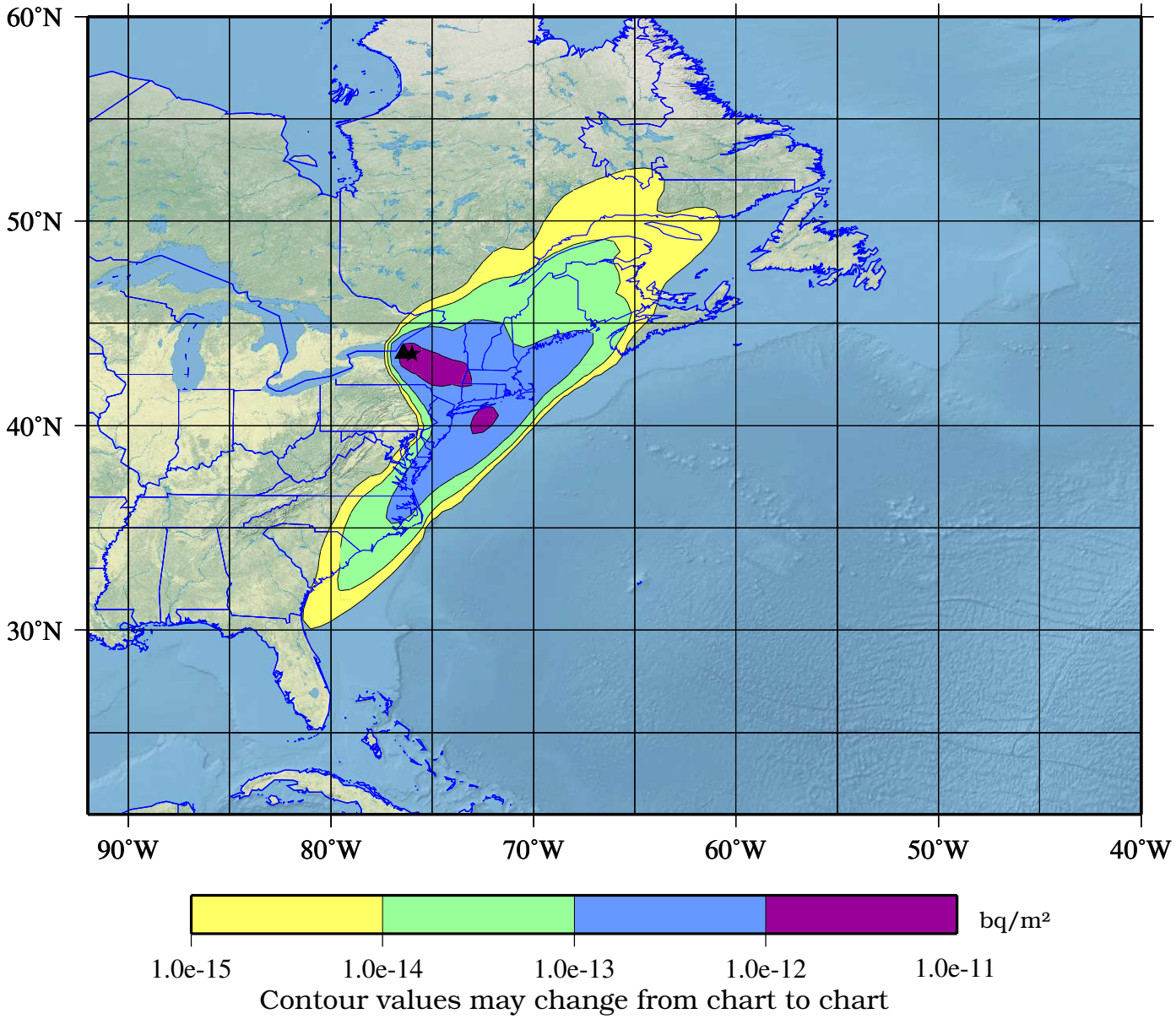

Contour values may change from chart to chart

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Meteo model : ECMWF

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Total deposition (bq/m²)
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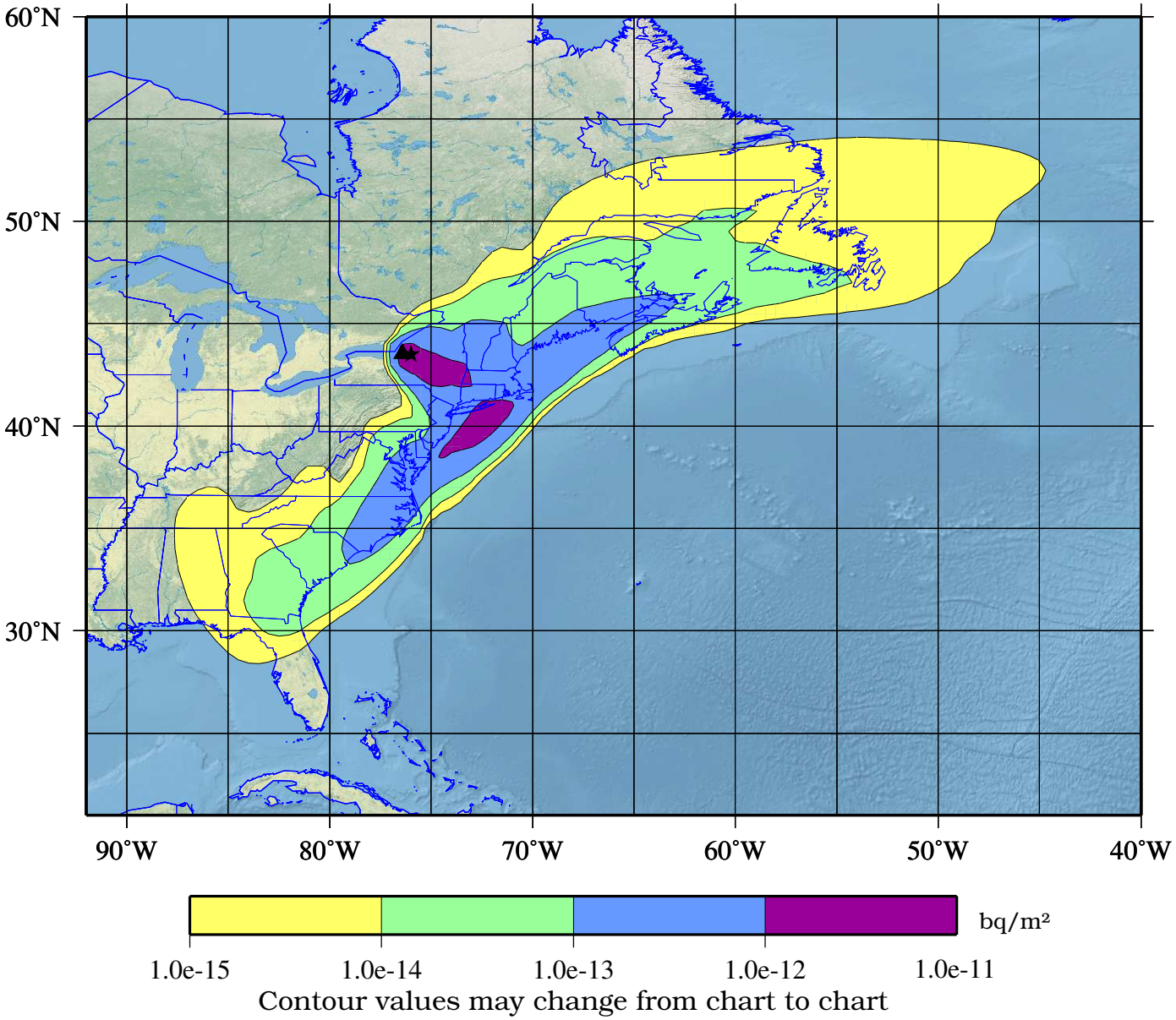
valid 24/01/2020 12h00 UTC



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