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 : 1336 UTC Date : 16 Apr 2019

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

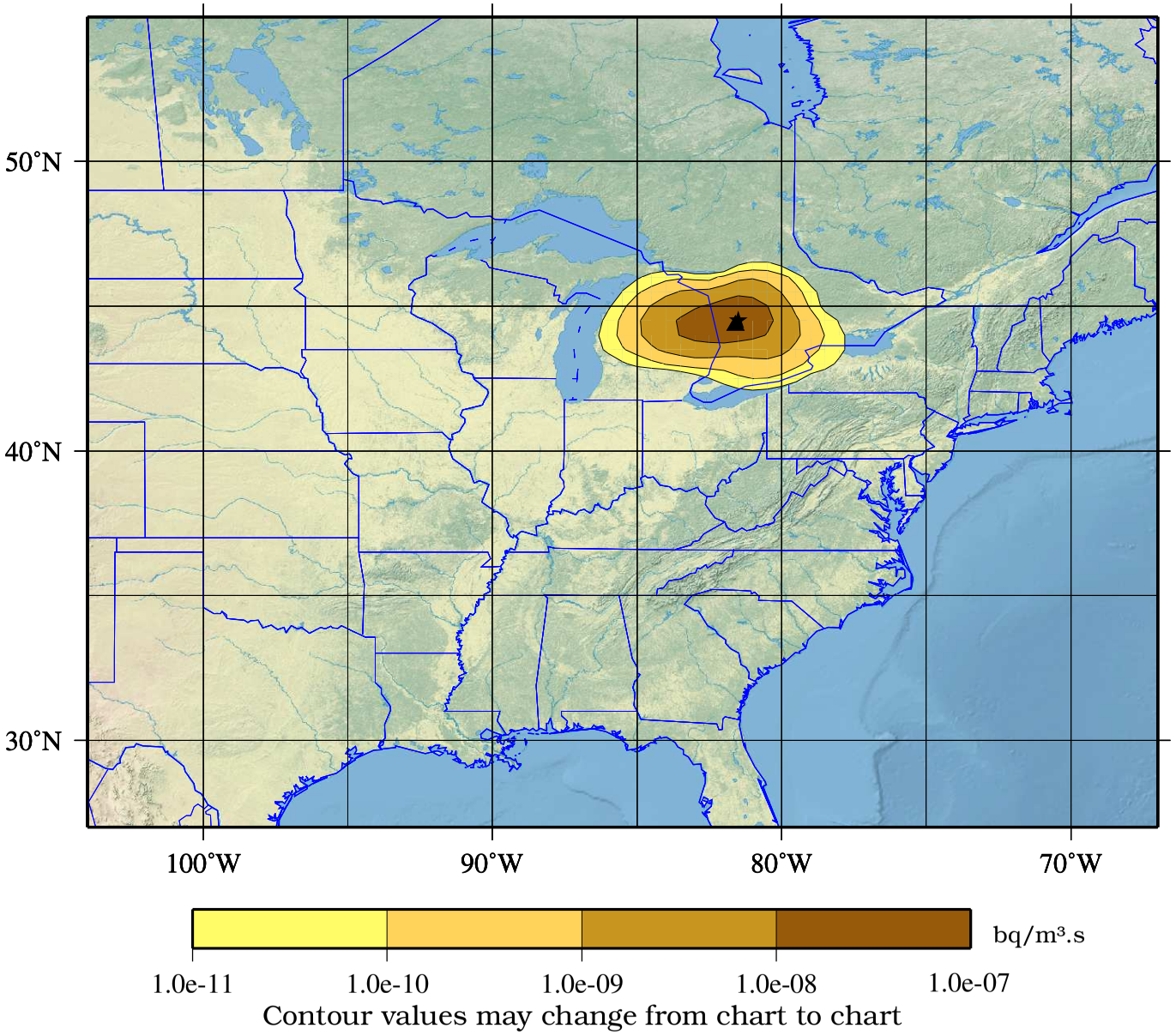
Release Time date : 12 UTC 16 Apr 2019
Release Location in decimal degrees : 44.32667N 81.5875W
Location name (if known) : BRUCE_ONTARIO
Emission duration : 12h00
Emission (per hour) : 1.0000 bq
Substance released : I-131
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ECMWF
Dispersion 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

BRUCE ONTARIO Exercise 16/04/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 17/04/2019 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : BRUCE ONTARIO
Emission start : 16/04/2019 12h00 UTC
Release duration : 12h00
Lat : 44.32667 N ; 44º19'36" N
Lon : 81.5875 W ; 81º35'15" W
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/04/2019 00UTC

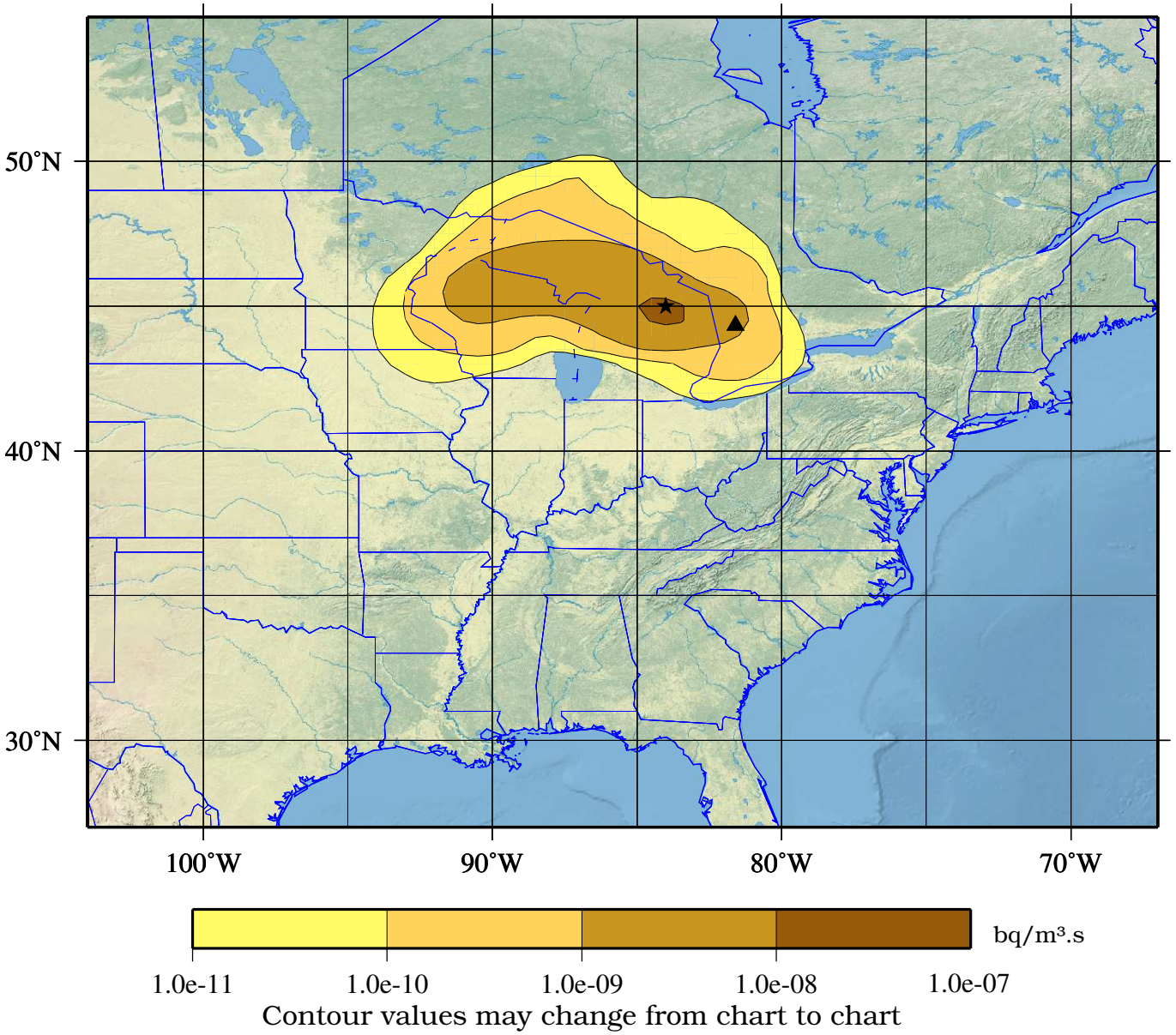
Max value for current step :
5.24807e-08 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/04/2019 13:31:15 UTC

BRUCE ONTARIO Exercise 16/04/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 18/04/2019 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Lon : 81.5875 W ; 81º35'15" W
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/04/2019 00UTC

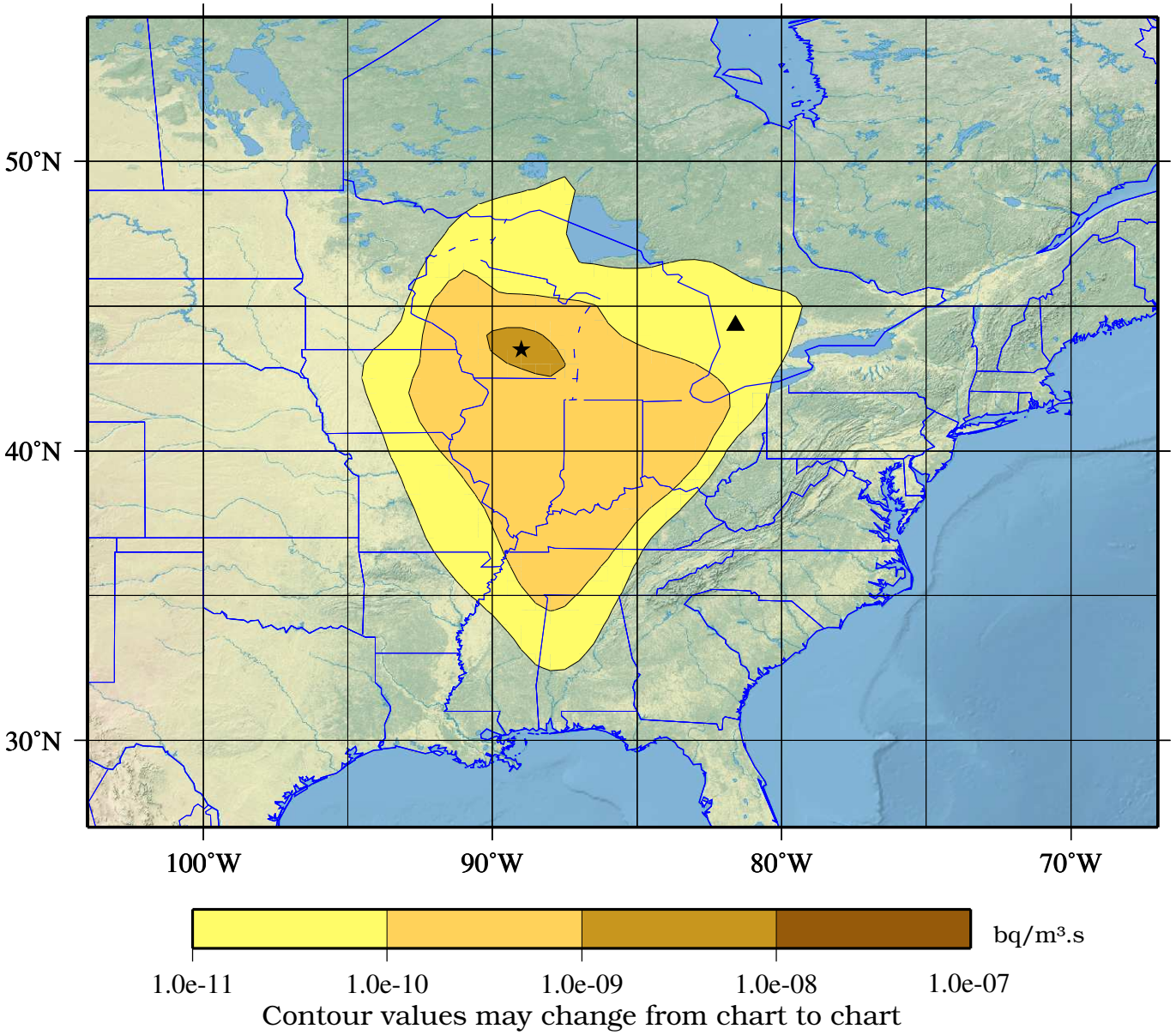
Max value for current step :
1.25314e-08 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/04/2019 13:31:15 UTC

BRUCE ONTARIO Exercise 16/04/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/04/2019 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/04/2019 00UTC

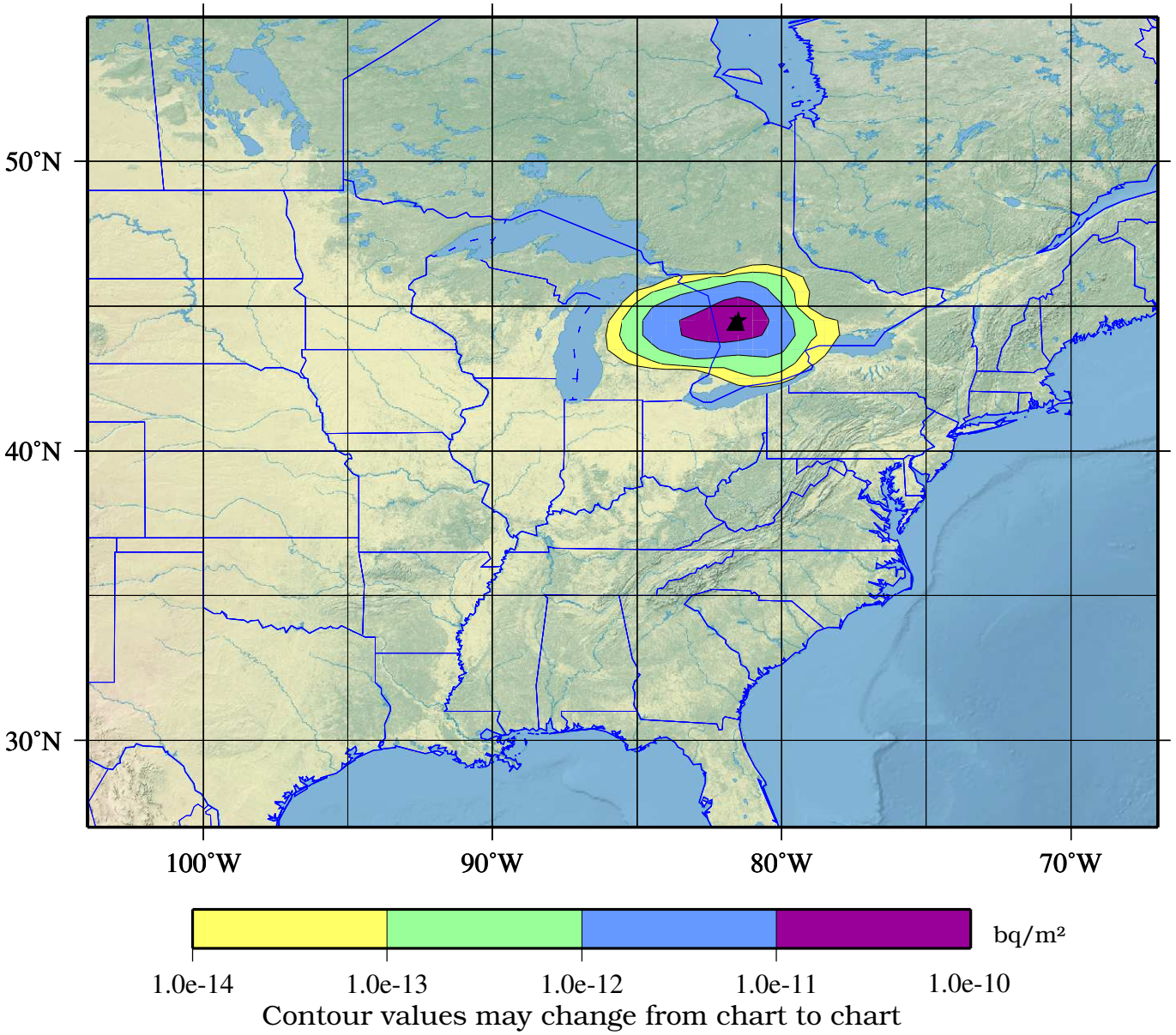
Max value for current step :
1.33968e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/04/2019 13:31:15 UTC

BRUCE ONTARIO Exercise 16/04/2019

Total deposition (bq/m²)
from release start
valid 17/04/2019 12h00 UTC



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Meteo model : ECMWF

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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/04/2019 00UTC

Max value for current step :
4.61467e-11 bq/m²

Max position ★
Source position ▲

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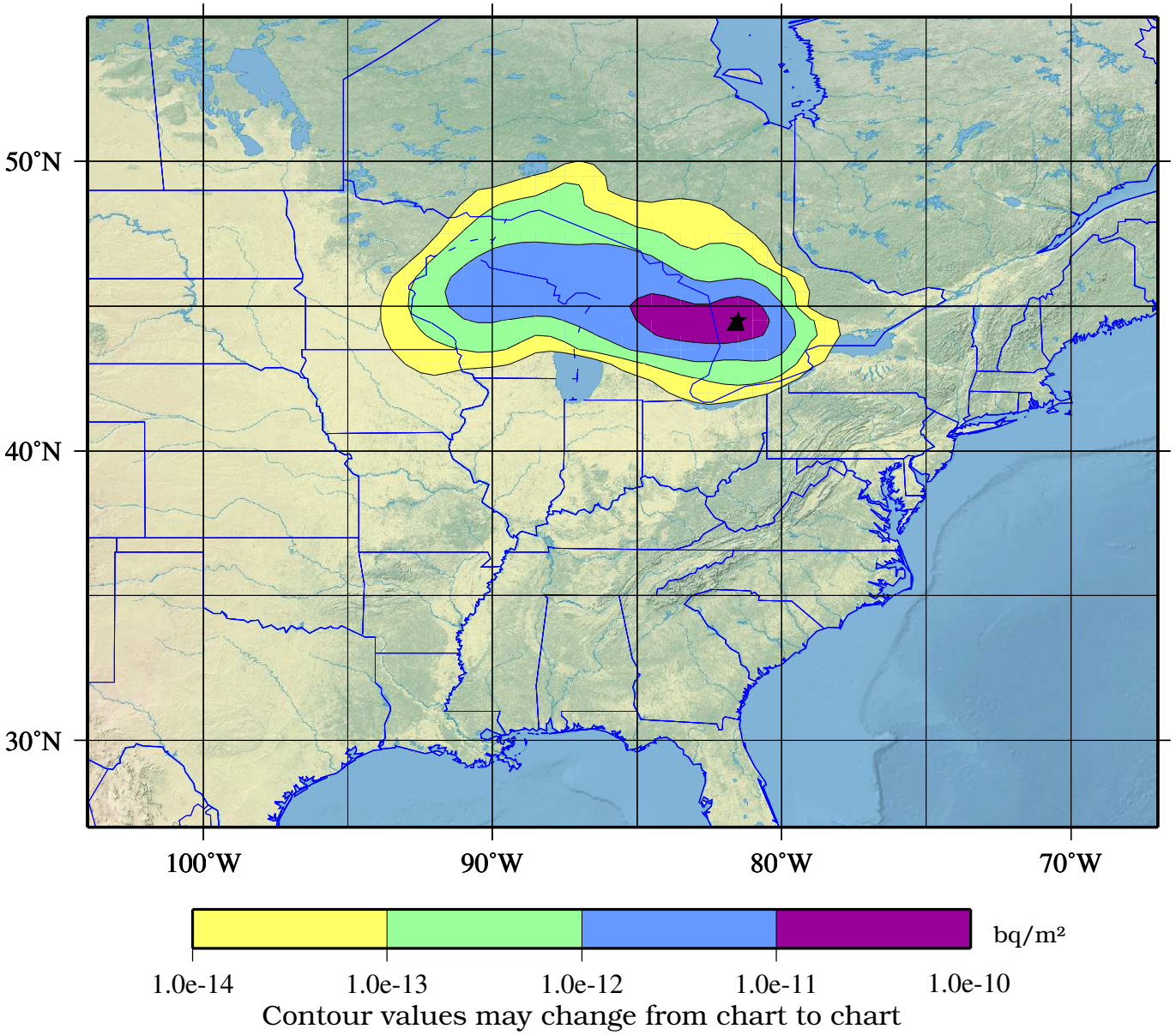
TOULOUSE RSMC
Issued 16/04/2019 13:31:15 UTC

BRUCE ONTARIO Exercise 16/04/2019

Total deposition (bq/m²)
from release start
valid 18/04/2019 12h00 UTC



Contour values may change from chart to chart

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Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/04/2019 00UTC

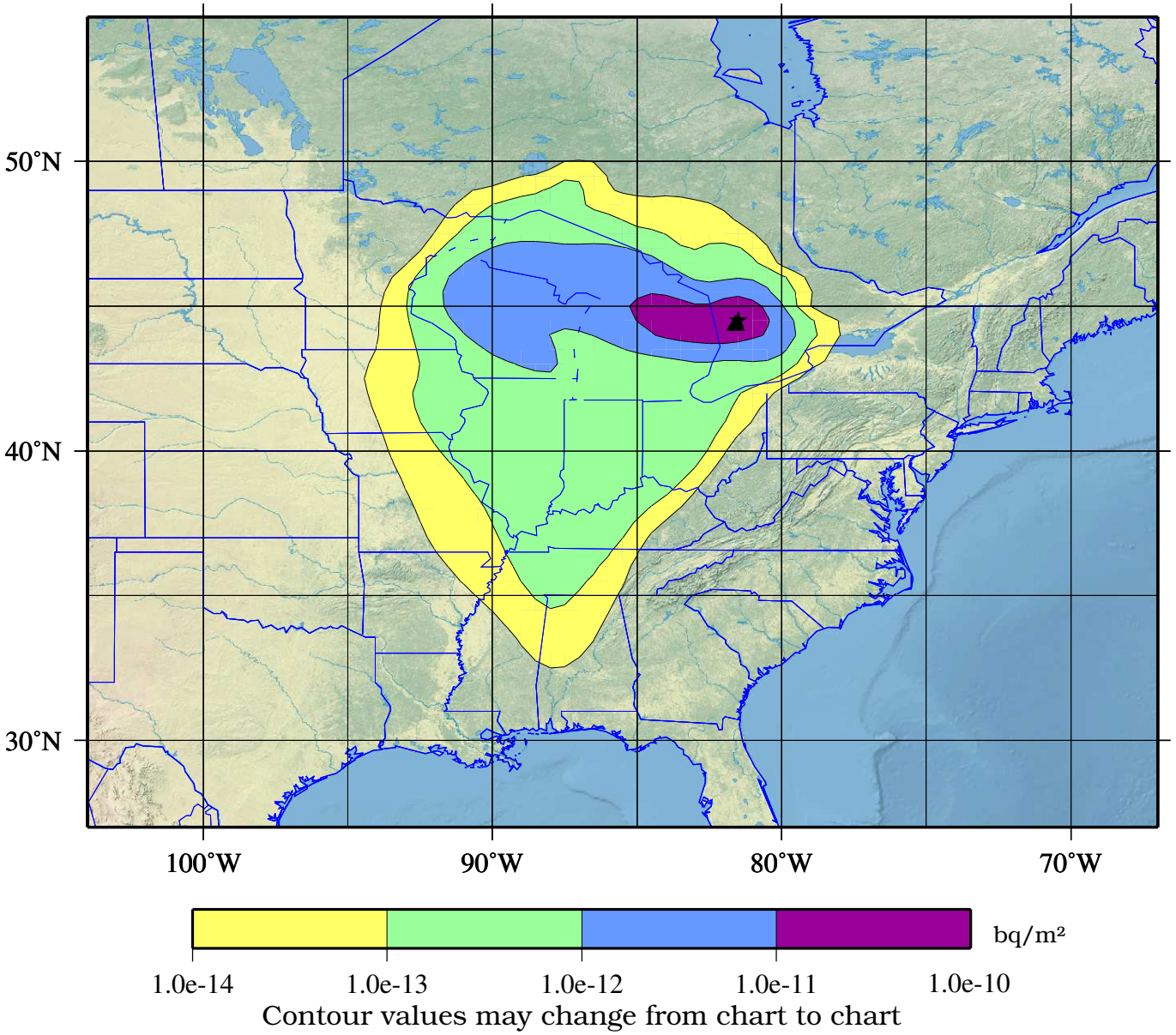
Max value for current step :
4.8099e-11 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/04/2019 13:31:15 UTC

BRUCE ONTARIO Exercise 16/04/2019

Total deposition (bq/m²)
from release start
valid 19/04/2019 12h00 UTC



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Meteo model : ECMWF

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16/04/2019 00UTC

Max value for current step :
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Max position ★
Source position ▲

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TOULOUSE RSMC
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