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 : 1330 UTC Date : 18 Dec 2018

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

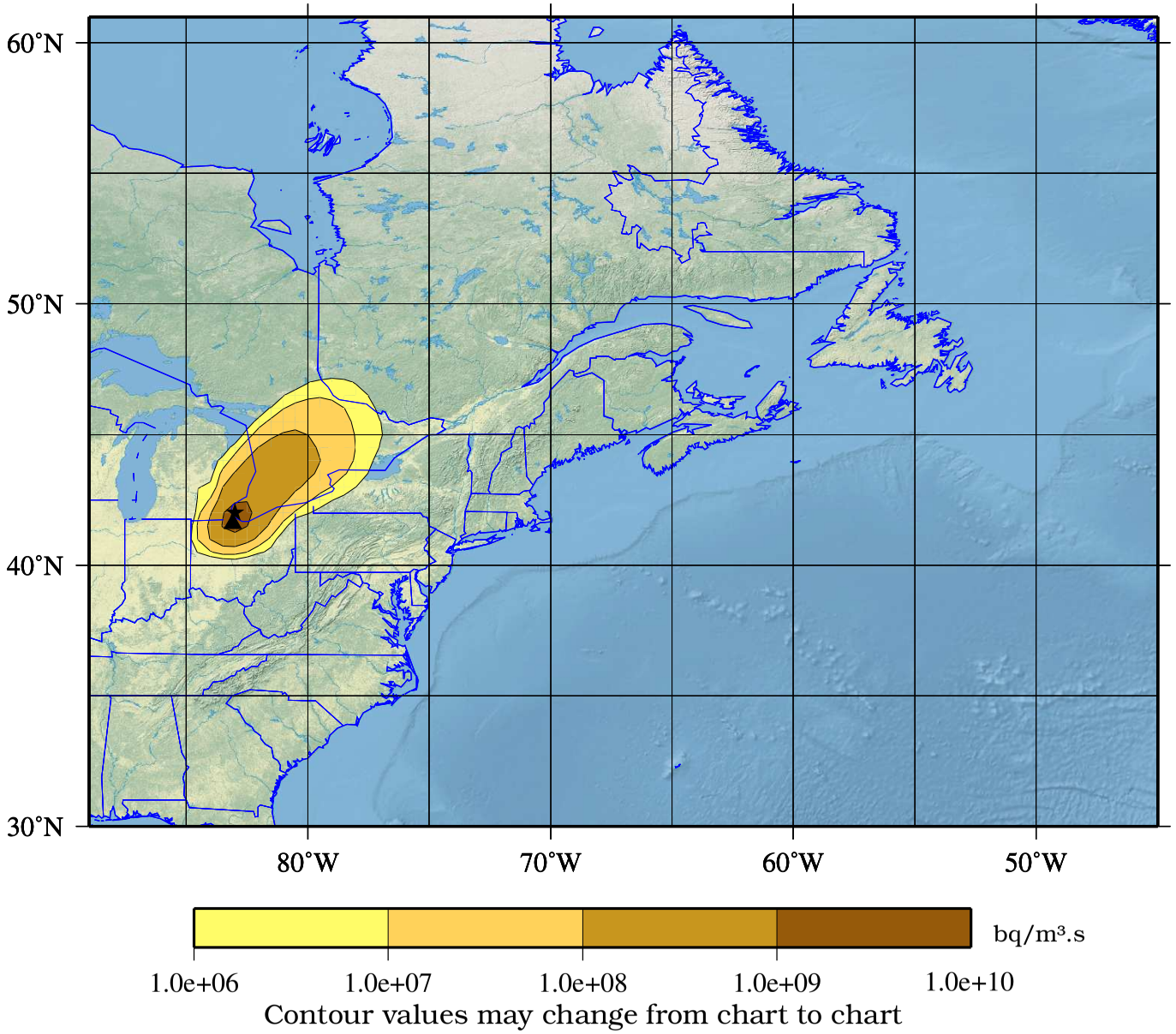
Release Time date : 12 UTC 18 Dec 2018
Release Location in decimal degrees : 41.5969N 83.08705W
Location name (if known) : DAVIS_BESSE
Emission duration : 06h00
Emission (per hour) : 6666660000.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : 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

DAVIS BESSE Exercise 18/12/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/12/2018 12h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

Results based on default initial values

RELEASE DATA

Site : DAVIS BESSE
Emission start : 18/12/2018 12h00 UTC
Release duration : 06h00
Lat : 41.5969 N ; 41º35'48" N
Lon : 83.0871 W ; 83º5'13" W
Emission rate : 6.7e+16 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
18/12/2018 00UTC

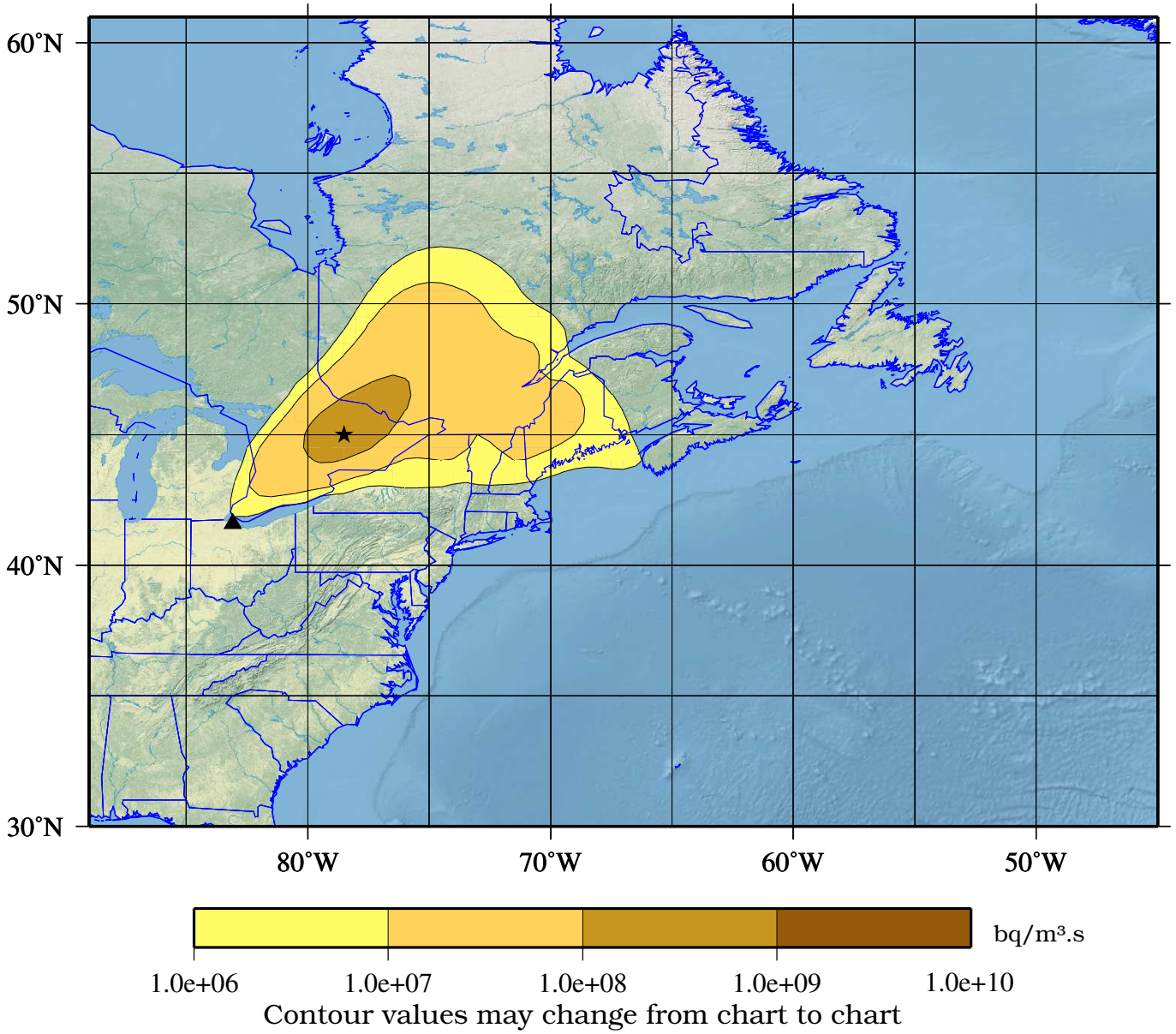
Max value for current step :
1761980000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/12/2018 13:10:11 UTC

DAVIS BESSE Exercise 18/12/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/12/2018 12h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : DAVIS BESSE
Emission start : 18/12/2018 12h00 UTC
Release duration : 06h00
Lat : 41.5969 N ; 41º35'48" N
Lon : 83.0871 W ; 83º5'13" W
Emission rate : 6.7e+16 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/12/2018 00UTC

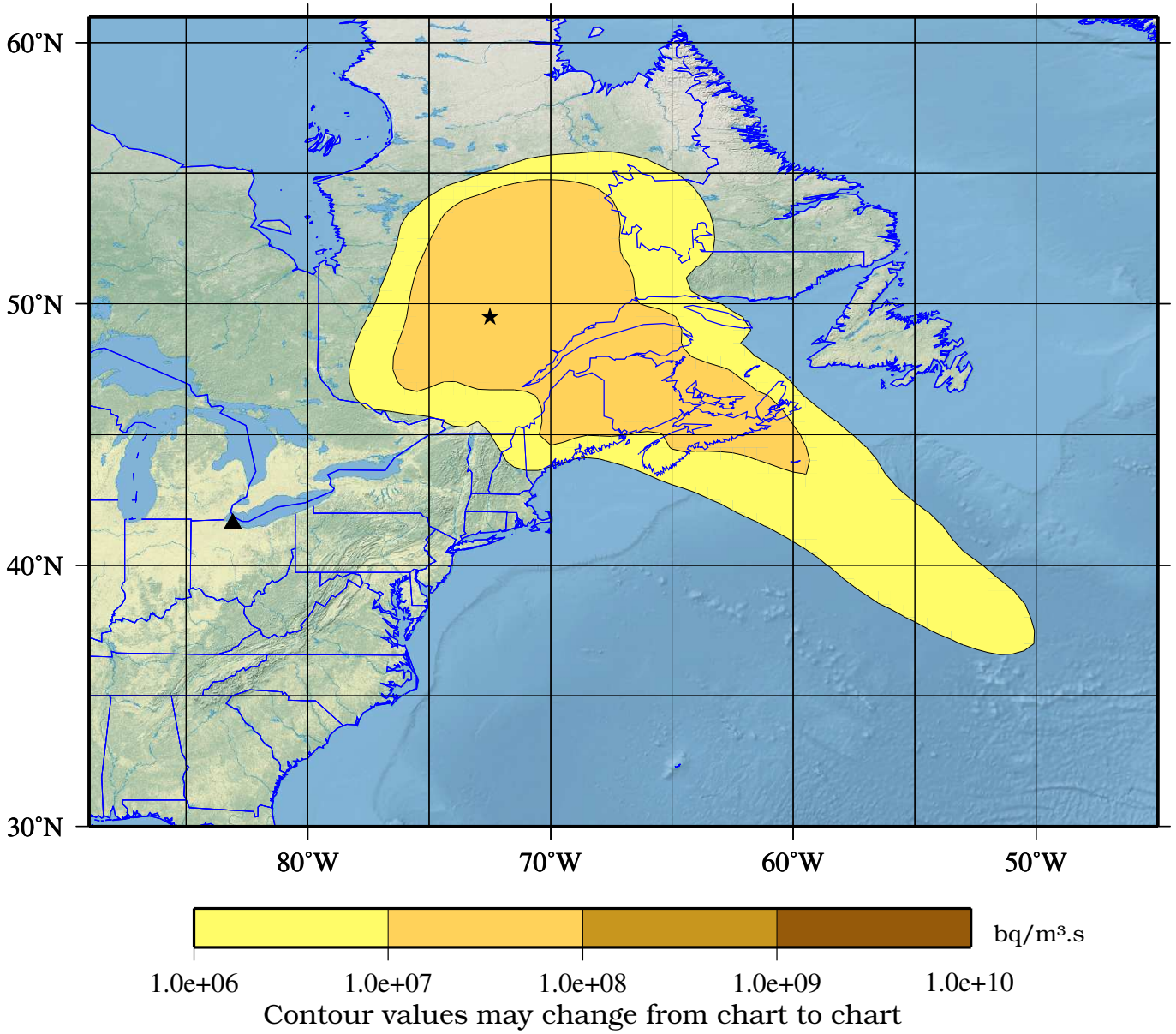
Max value for current step :
177011000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/12/2018 13:10:11 UTC

DAVIS BESSE Exercise 18/12/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 21/12/2018 12h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : DAVIS BESSE
Emission start : 18/12/2018 12h00 UTC
Release duration : 06h00
Lat : 41.5969 N ; 41º35'48" N
Lon : 83.0871 W ; 83º5'13" W
Emission rate : 6.7e+16 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/12/2018 00UTC

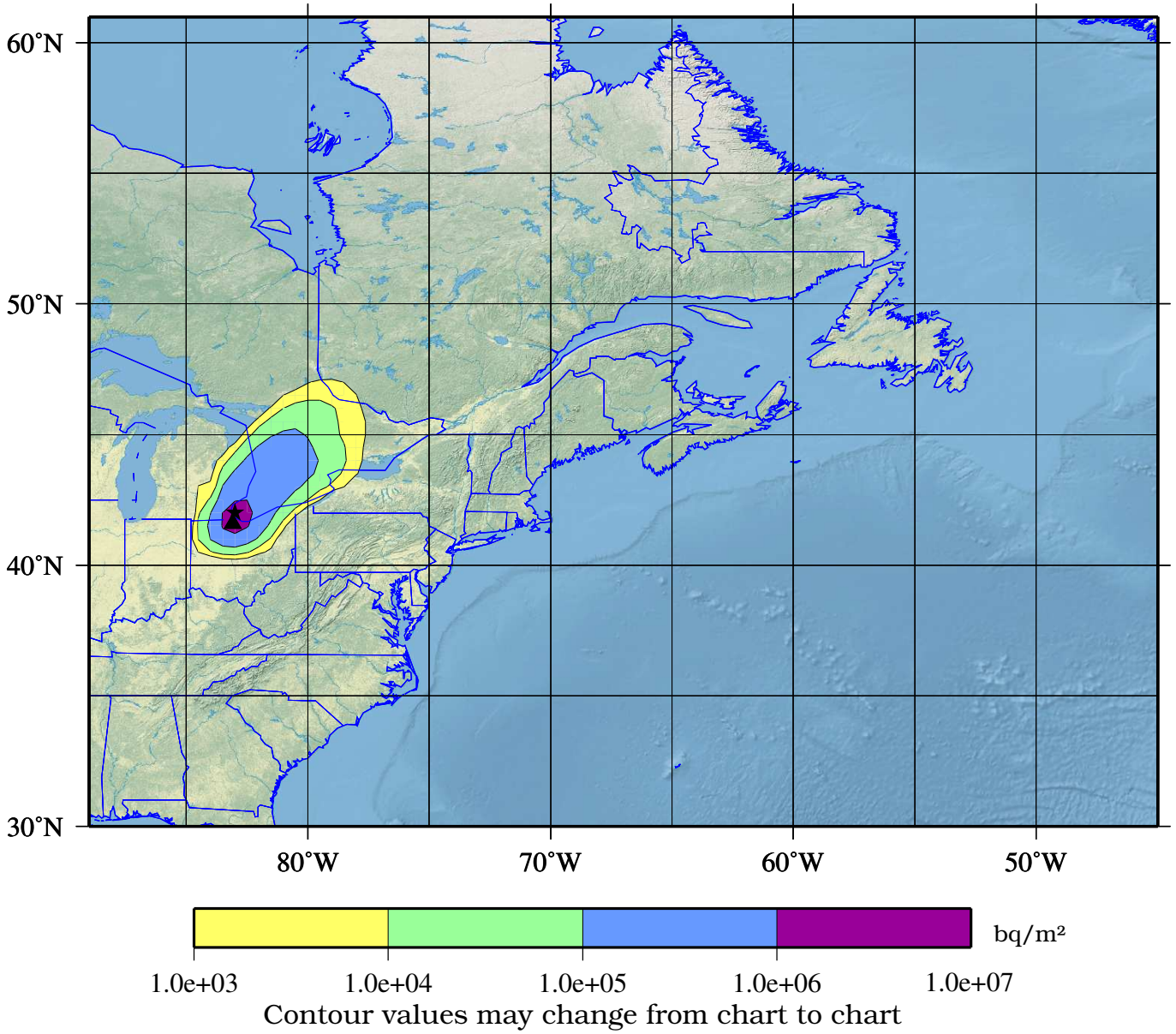
Max value for current step :
58884400 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/12/2018 13:10:11 UTC

DAVIS BESSE Exercise 18/12/2018

Total deposition (bq/m²)
from release start
valid 19/12/2018 12h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : DAVIS BESSE
Emission start : 18/12/2018 12h00 UTC
Release duration : 06h00
Lat : 41.5969 N ; 41º35'48" N
Lon : 83.0871 W ; 83º5'13" W
Emission rate : 6.7e+16 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/12/2018 00UTC

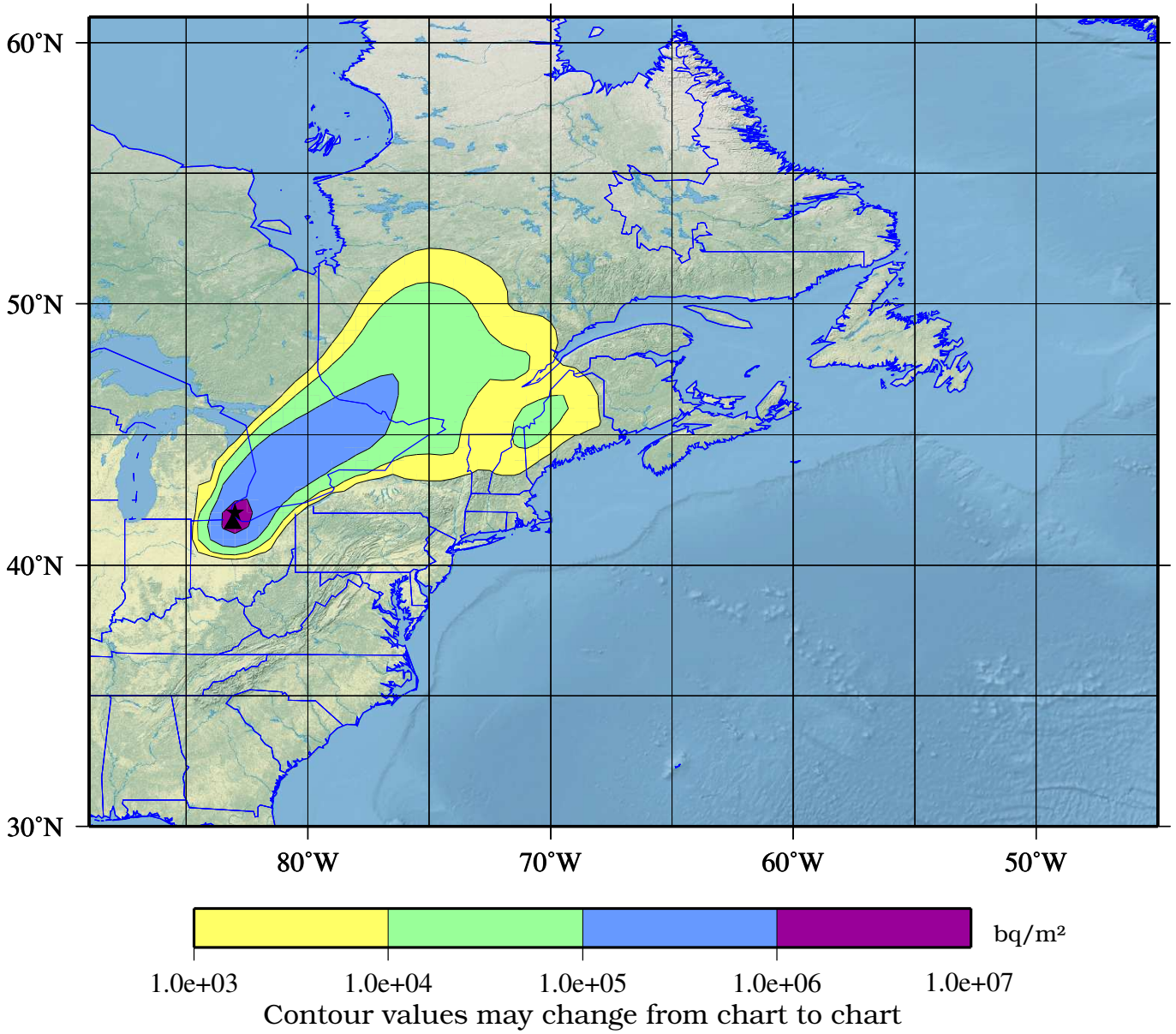
Max value for current step :
1931970 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/12/2018 13:10:11 UTC

DAVIS BESSE Exercise 18/12/2018

Total deposition (bq/m²)
from release start
valid 20/12/2018 12h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : DAVIS BESSE
Emission start : 18/12/2018 12h00 UTC
Release duration : 06h00
Lat : 41.5969 N ; 41º35'48" N
Lon : 83.0871 W ; 83º5'13" W
Emission rate : 6.7e+16 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/12/2018 00UTC

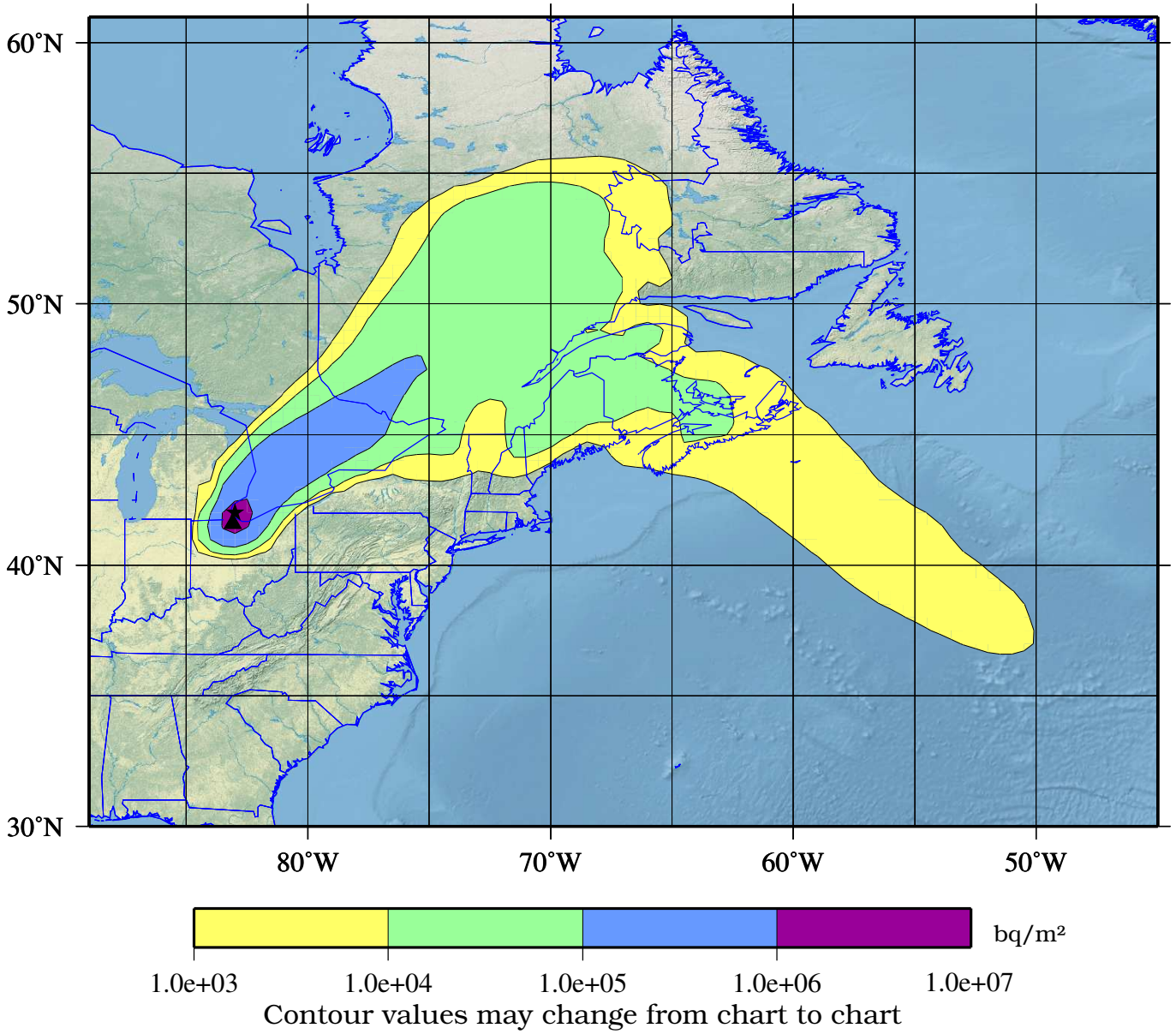
Max value for current step :
1931970 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/12/2018 13:10:11 UTC

DAVIS BESSE Exercise 18/12/2018

Total deposition (bq/m²)
from release start
valid 21/12/2018 12h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : DAVIS BESSE
Emission start : 18/12/2018 12h00 UTC
Release duration : 06h00
Lat : 41.5969 N ; 41º35'48" N
Lon : 83.0871 W ; 83º5'13" W
Emission rate : 6.7e+16 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/12/2018 00UTC

Max value for current step :
1931970 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/12/2018 13:10:11 UTC