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 : 1622 UTC Date : 14 Apr 2016

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

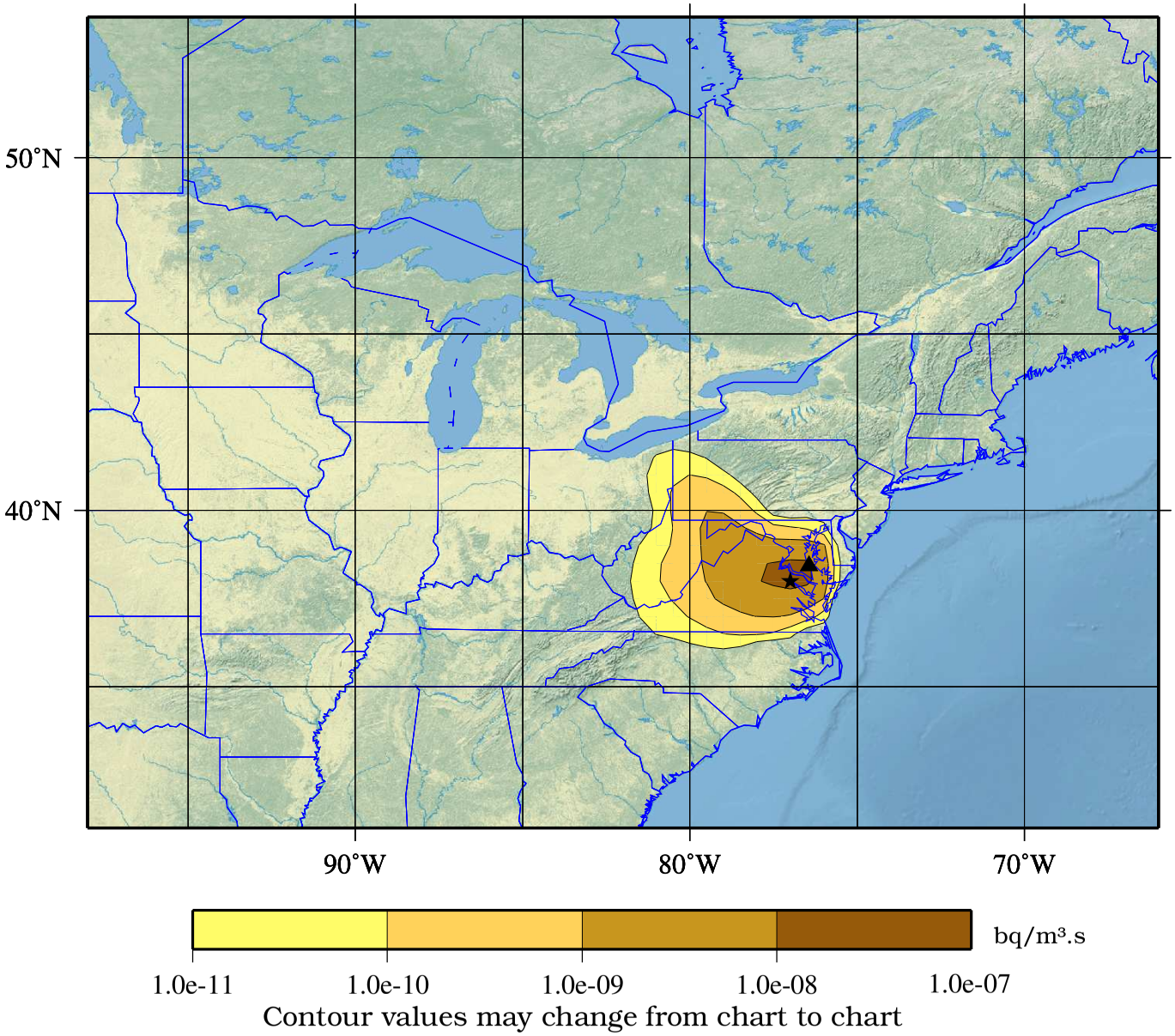
Release Time date : 12 UTC 14 Apr 2016
Release Location in decimal degrees : 38.4344N 76.4419W
Location name (if known) : Calvert
Emission duration : 06h00
Emission (per hour) : 1.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 1 - 500 m (AGL)
Meteorological Model : ARPEGE
Dispersion 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

Calvert cliffs Exercise 14/04/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 15/04/2016 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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RELEASE DATA
Site : Calvert cliffs
Emission start : 14/04/2016 12h00 UTC
Release duration : 06h00
Lat : 38.4344 N ; 38º26'3" N
Lon : 76.4419 W ; 76º26'30" W
Emission rate : 1.0e+00 bq/h
Base : 1m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
14/04/2016 12UTC

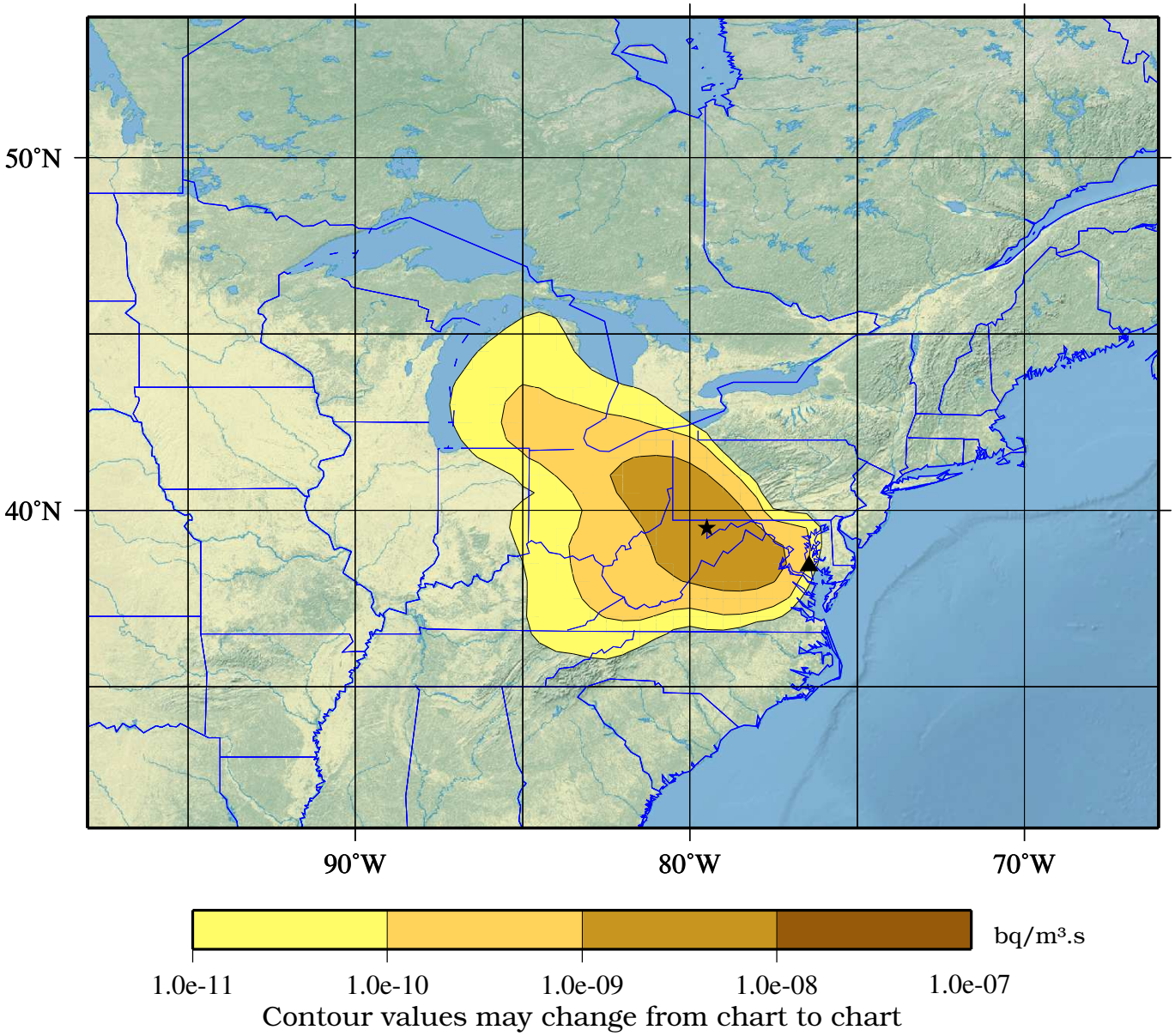
Max value for current step :
1.58855e-08 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 14/04/2016 16:17:14 UTC

Calvert cliffs Exercise 14/04/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 16/04/2016 12h00 UTC



Dispersion model : MOCAGE Accident

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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
14/04/2016 12UTC

Max value for current step :
5.29663e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
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Calvert cliffs Exercise 14/04/2016

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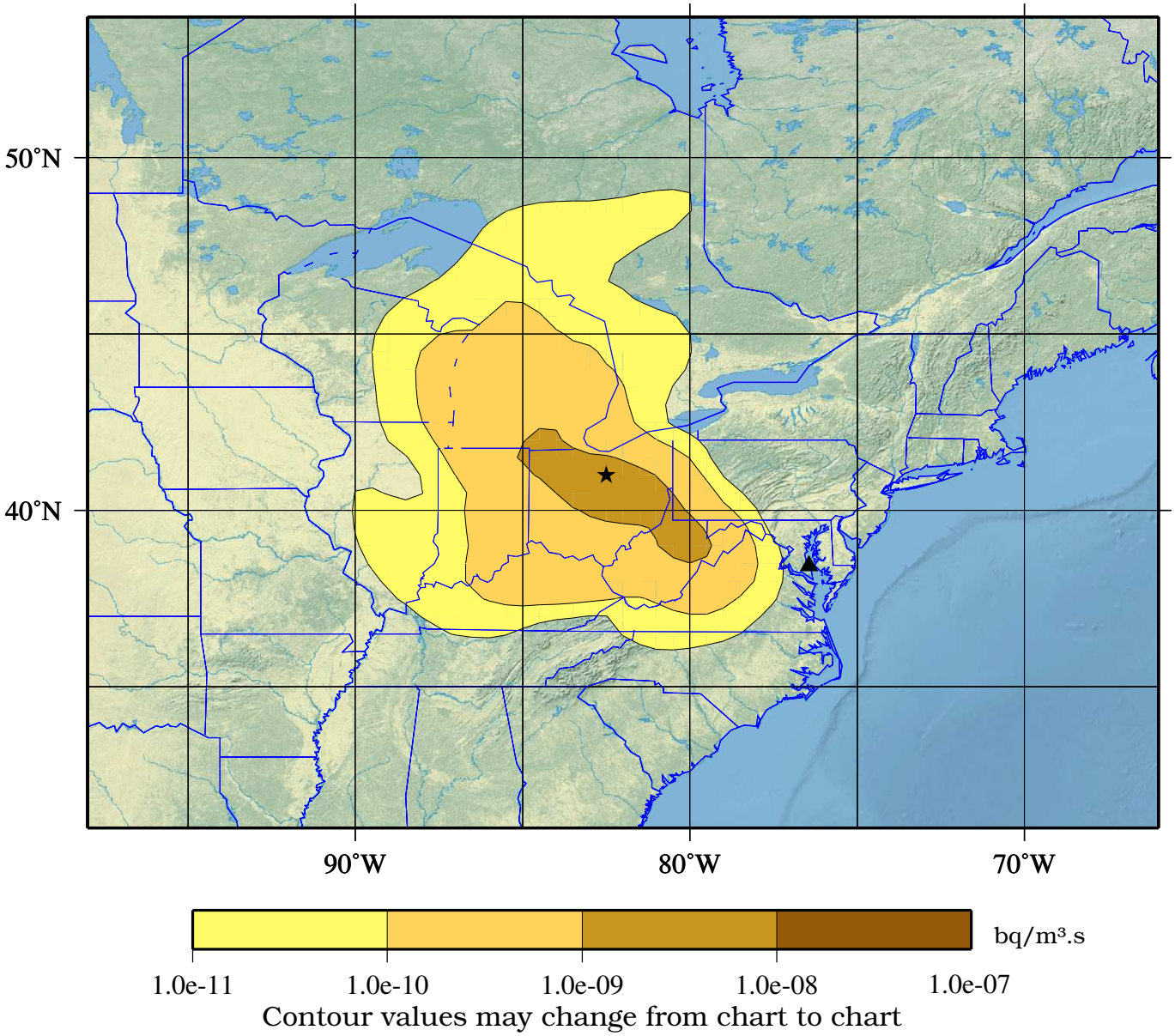

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14/04/2016 12UTC

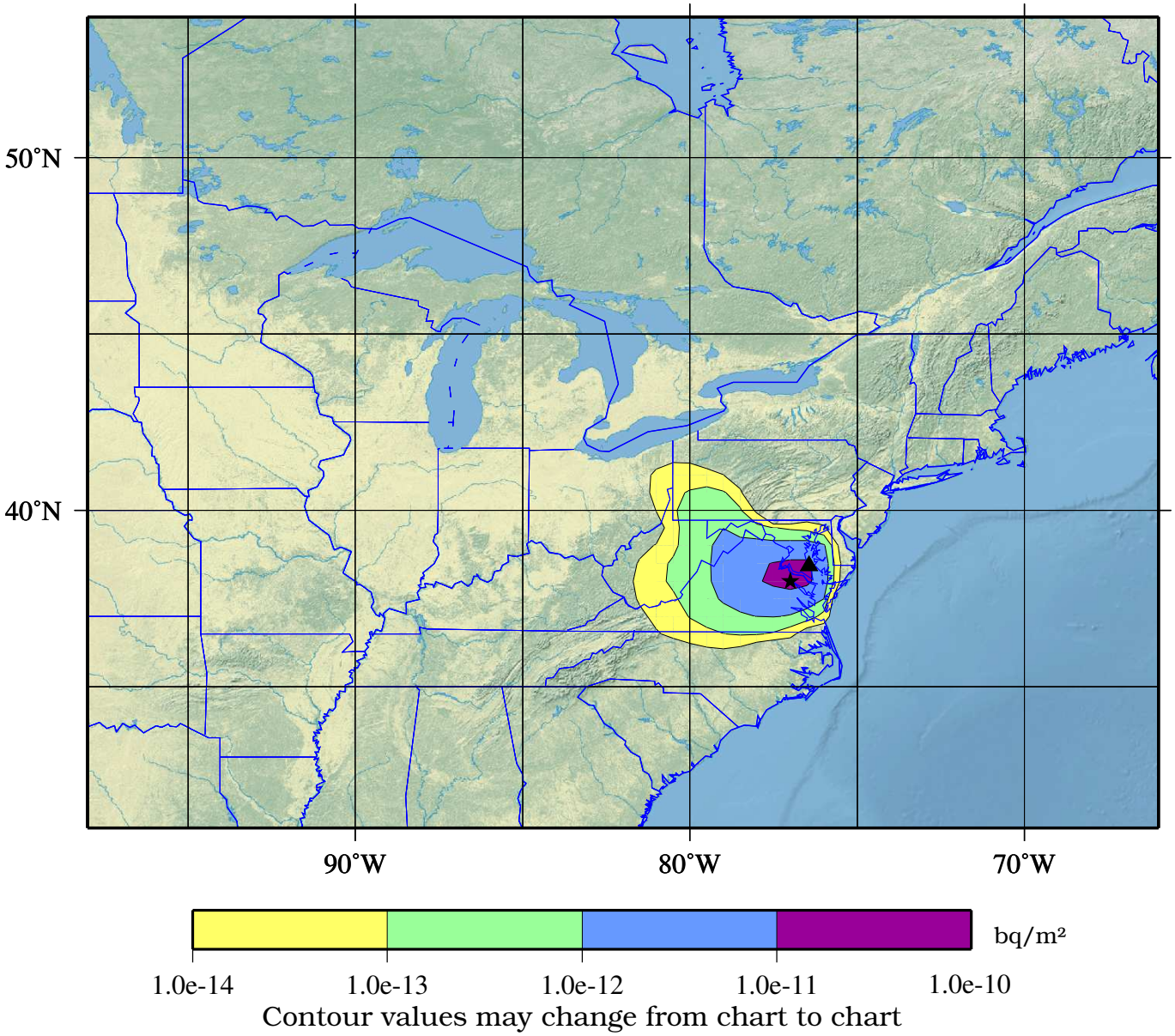
Max value for current step :
1.71002e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 14/04/2016 16:17:14 UTC

Calvert cliffs Exercise 14/04/2016

Total deposition (bq/m²)
from release start
valid 15/04/2016 12h00 UTC



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MODEL DATA
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Init for meteo data
14/04/2016 12UTC

Max value for current step :
1.62181e-11 bq/m²

Max position ★
Source position ▲

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Calvert cliffs Exercise 14/04/2016

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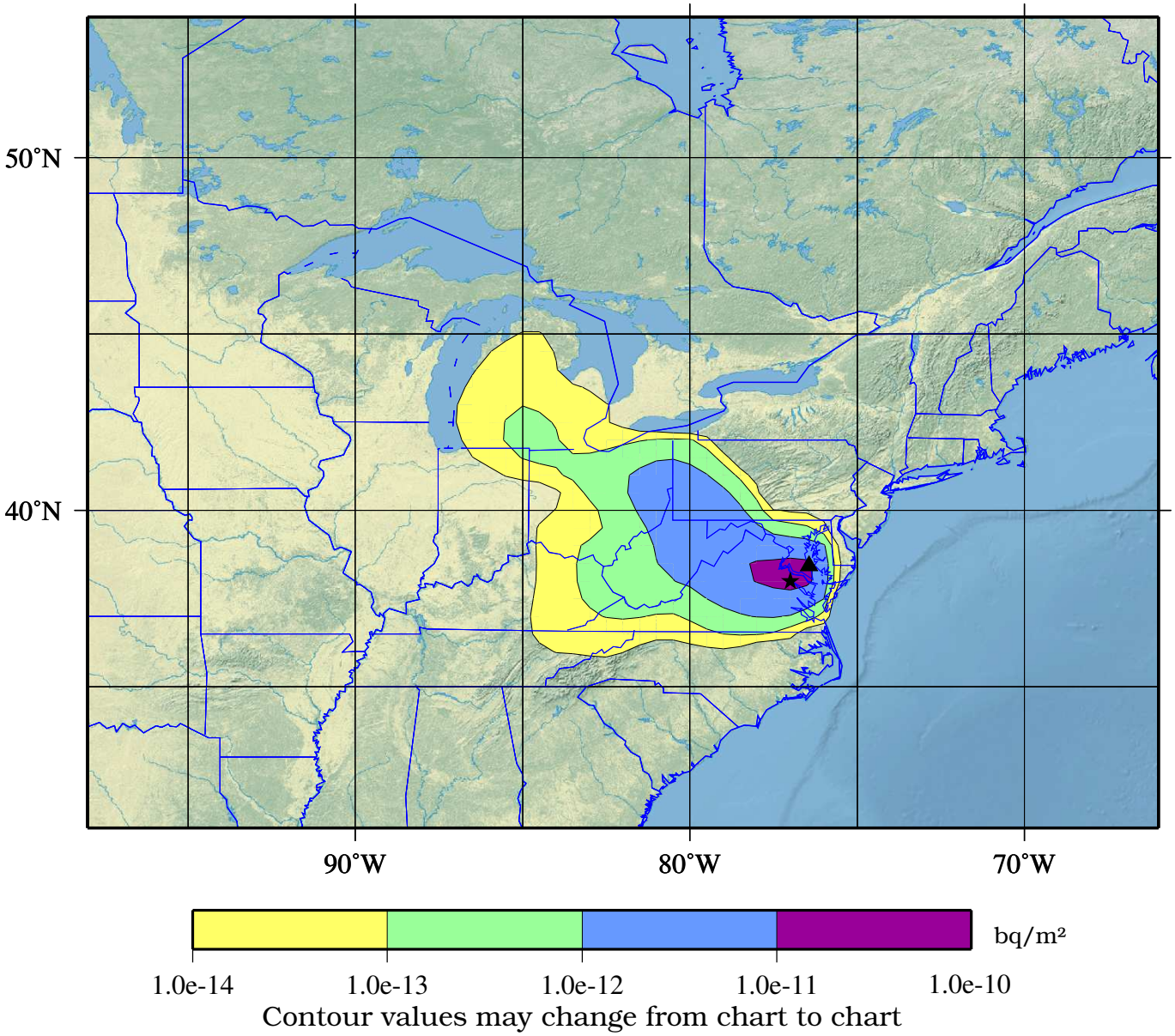

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14/04/2016 12UTC

Max value for current step :
1.66341e-11 bq/m²

Max position ★
Source position ▲

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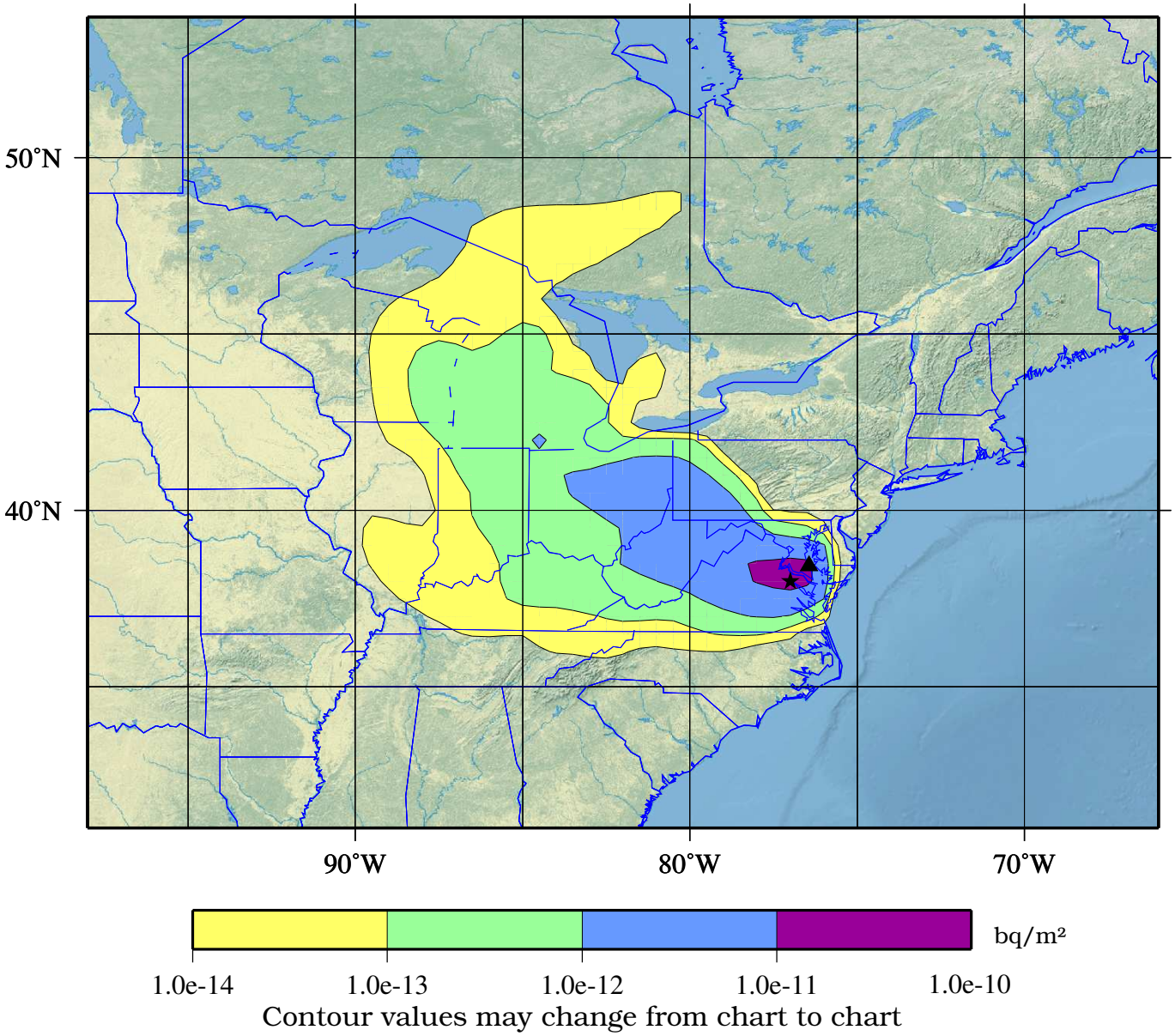

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