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 : 1442 UTC Date : 17 Apr 2018

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

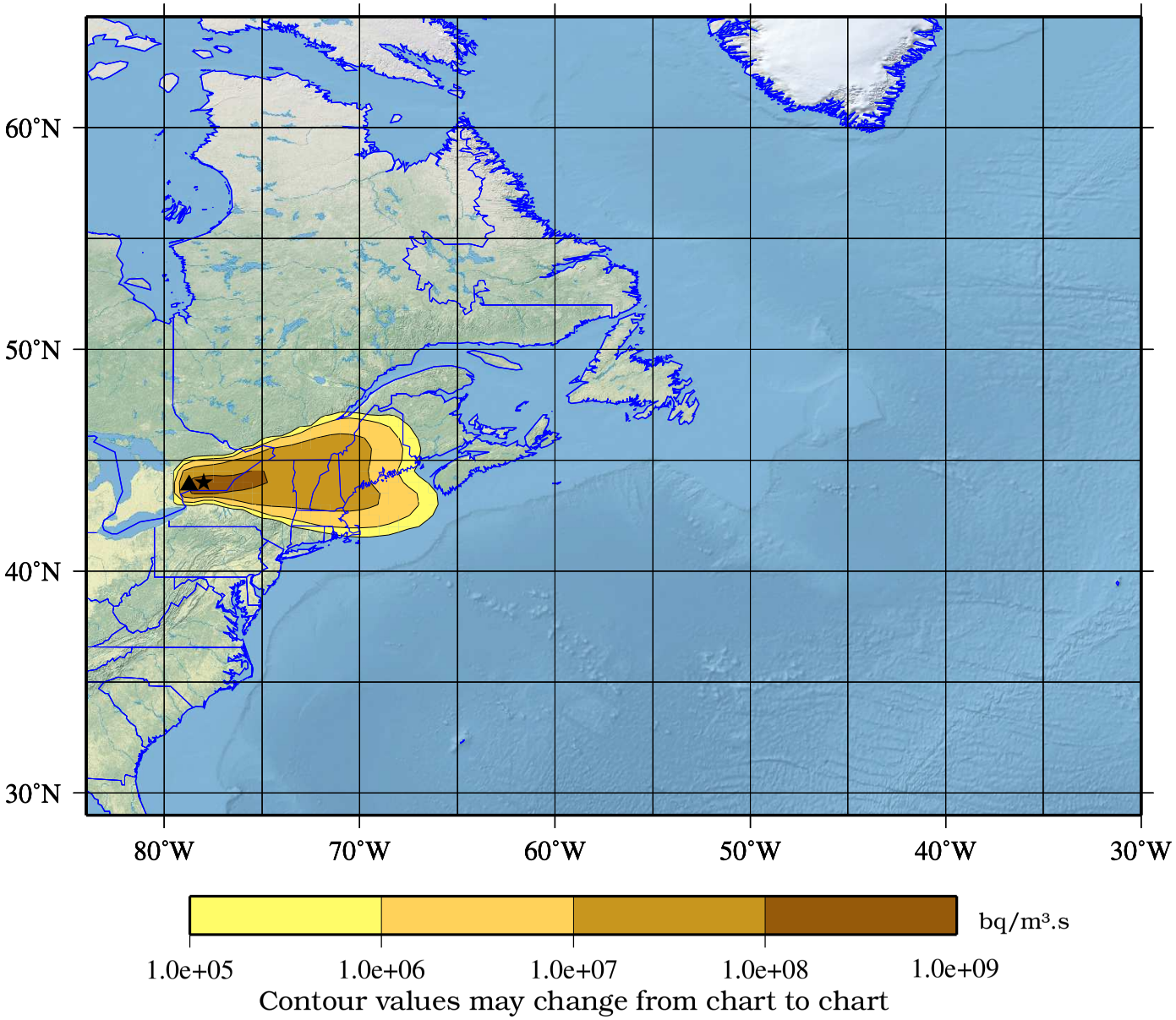
Release Time date : 13 UTC 17 Apr 2018
Release Location in decimal degrees : 43.86861N 78.72487W
Location name (if known) : DARLINGTON
Emission duration : 06h00
Emission (per hour) : 2000001600.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 100 m (AGL)
Meteorological Model : CEP_180H
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

DARLINGTON Exercise 17/04/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 23 hours
valid 18/04/2018 12h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : DARLINGTON
Emission start : 17/04/2018 13h00 UTC
Release duration : 06h00
Lat : 43.86861 N ; 43º52'6" N
Lon : 78.7249 W ; 78º43'29" W
Emission rate : 2.0e+16 bq/h
Base : 0m
Top : 100m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
17/04/2018 00UTC

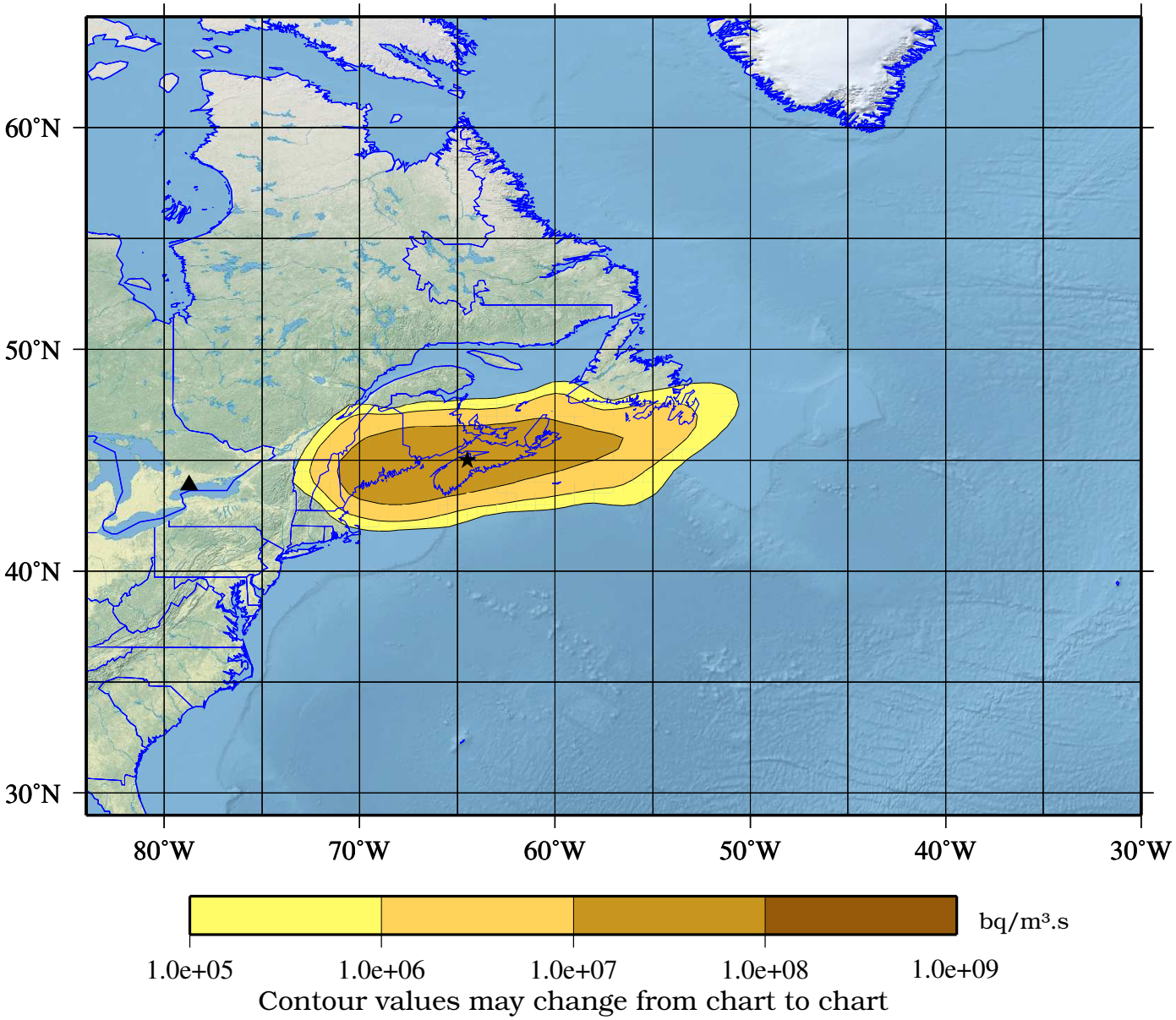
Max value for current step :
184927000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/04/2018 14:27:11 UTC

DARLINGTON Exercise 17/04/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/04/2018 12h00 UTC



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Meteo model : ECMWF

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Base : 0m
Top : 100m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
17/04/2018 00UTC

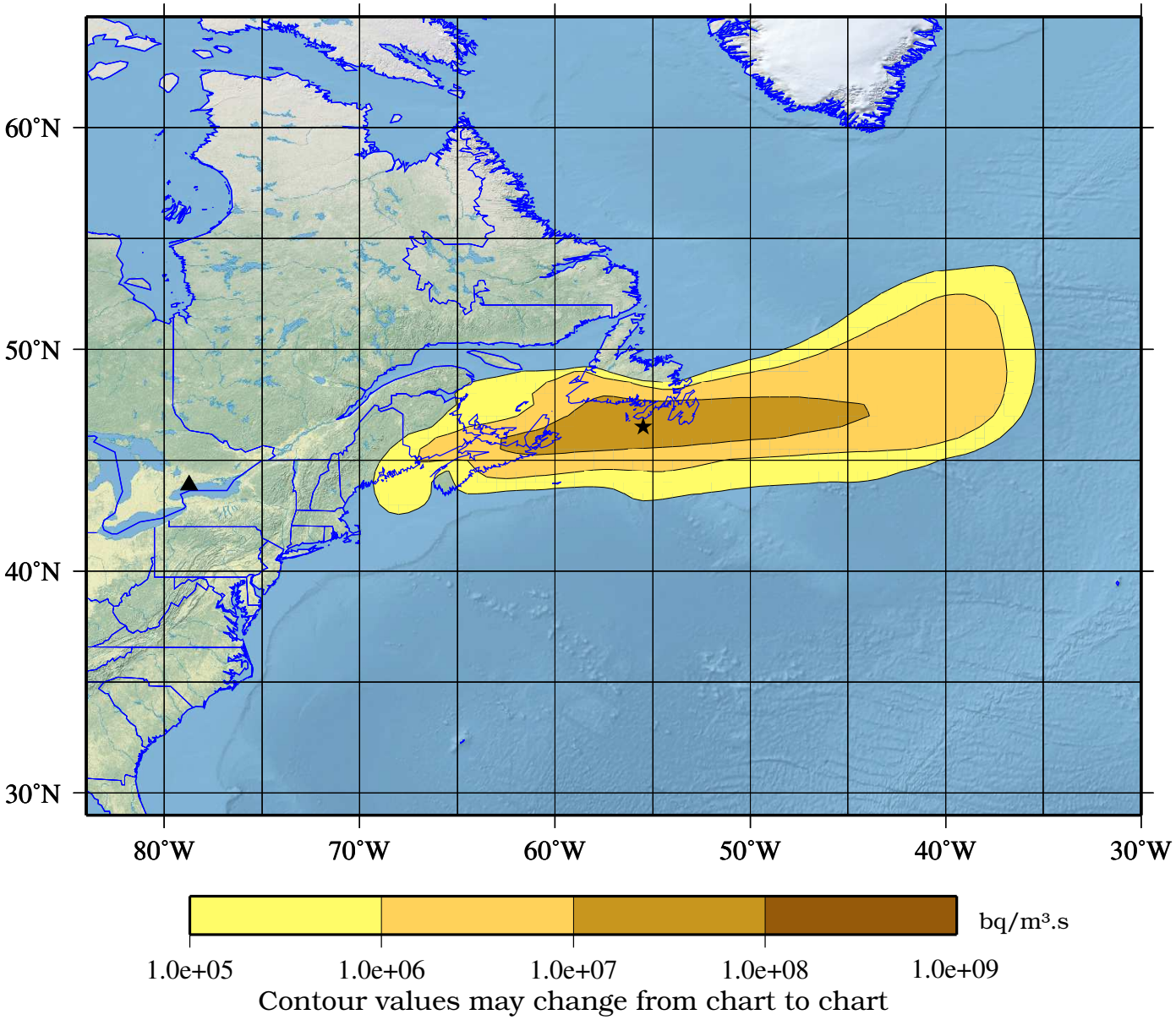
Max value for current step :
40644300 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/04/2018 14:27:11 UTC

DARLINGTON Exercise 17/04/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/04/2018 12h00 UTC



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Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/04/2018 00UTC

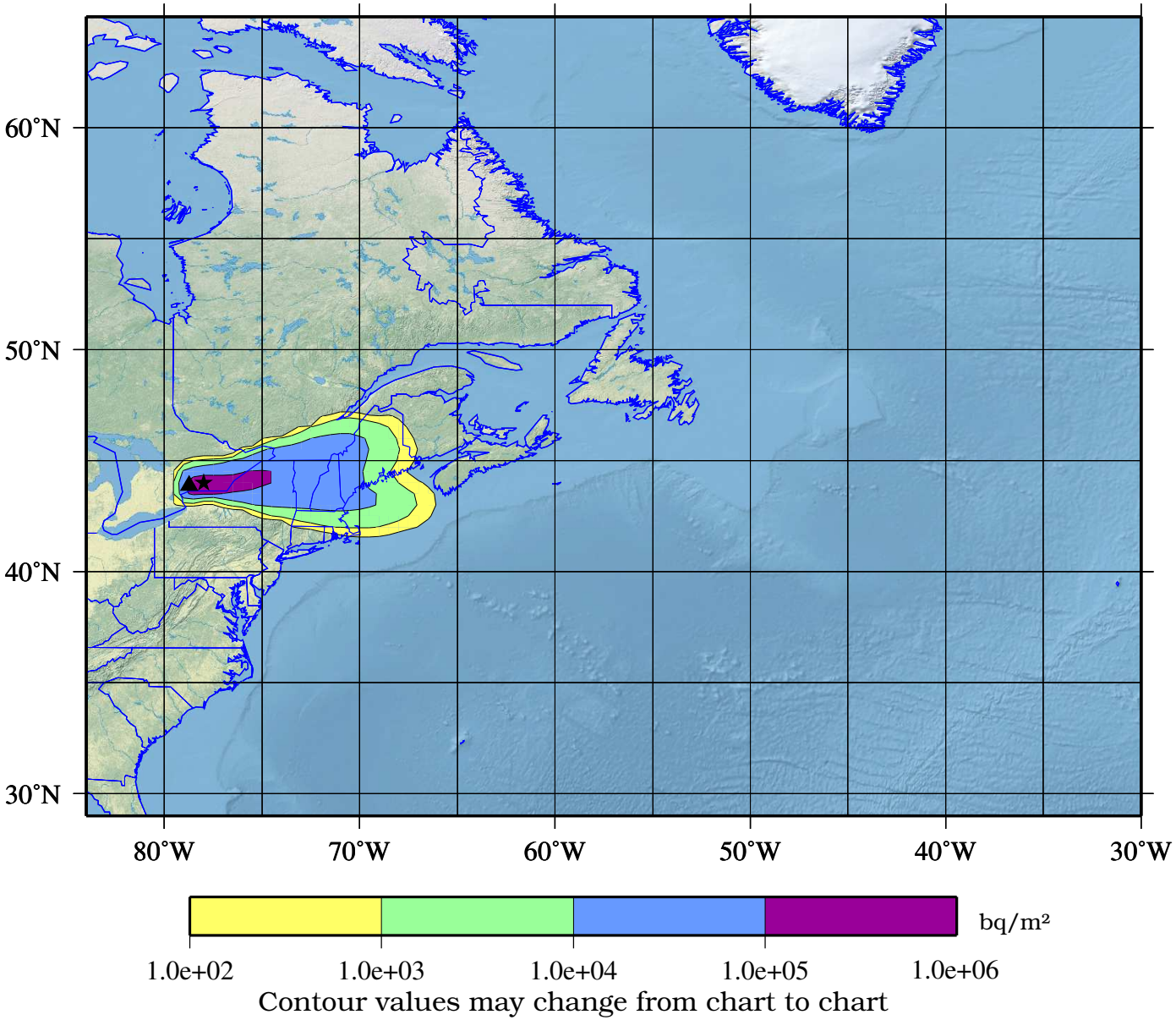
Max value for current step :
36391500 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/04/2018 14:27:11 UTC

DARLINGTON Exercise 17/04/2018

Total deposition (bq/m²)
from release start
valid 18/04/2018 12h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/04/2018 00UTC

Max value for current step :
202548 bq/m²

Max position ★
Source position ▲

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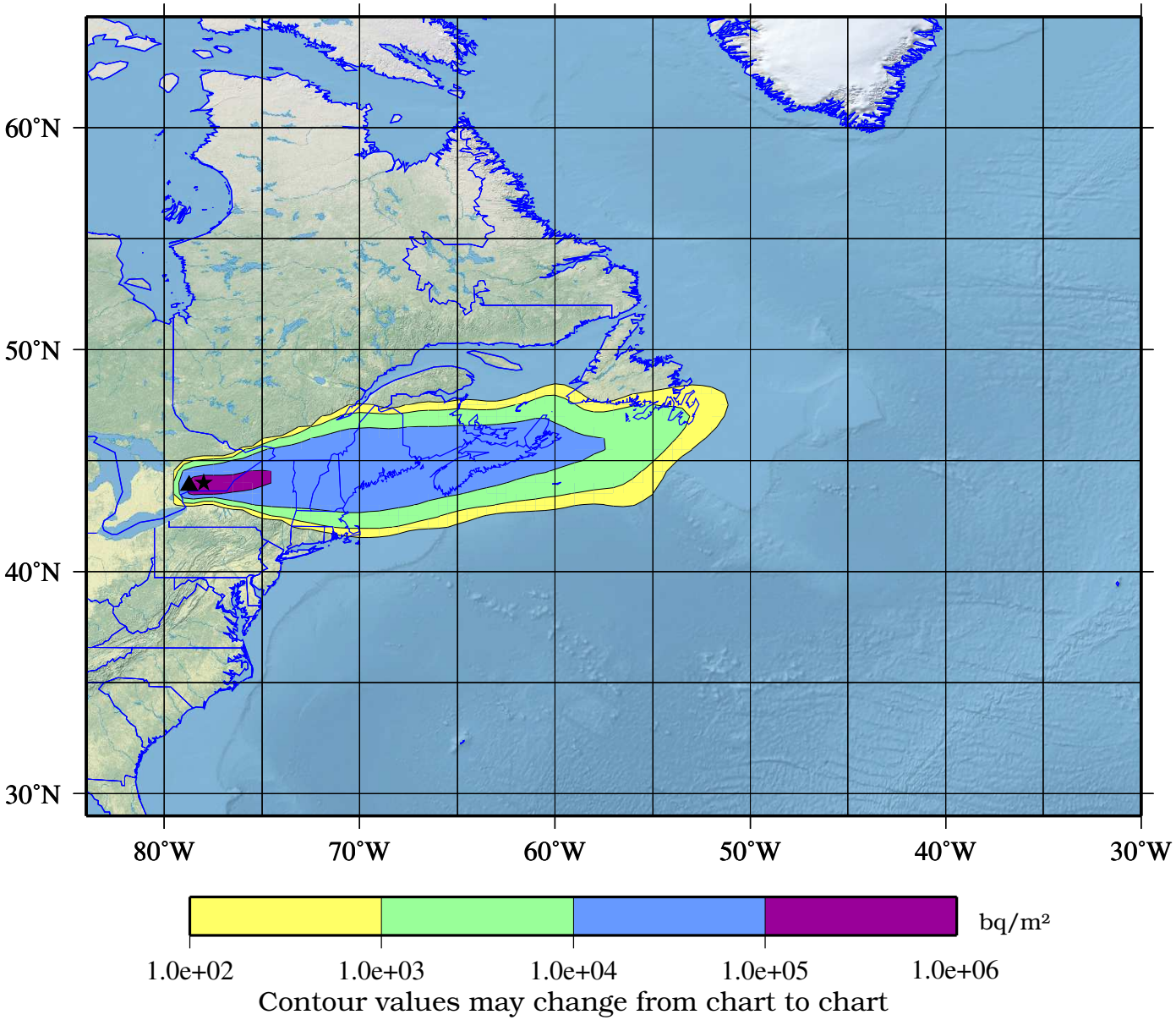
TOULOUSE RSMC
Issued 17/04/2018 14:27:11 UTC

DARLINGTON Exercise 17/04/2018

Total deposition (bq/m²)
from release start
valid 19/04/2018 12h00 UTC



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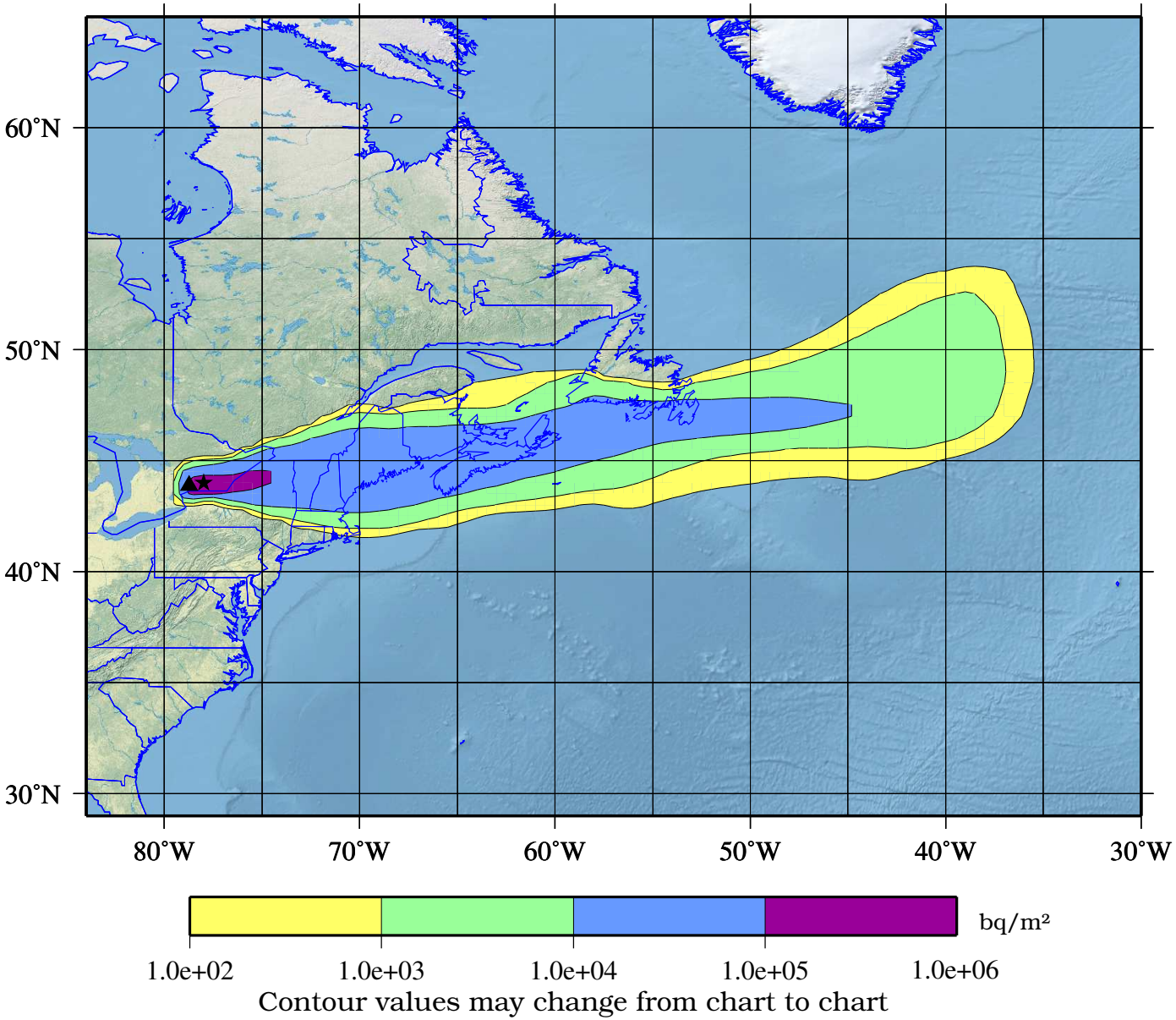

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