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 : 0944 UTC Date : 19 May 2020

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

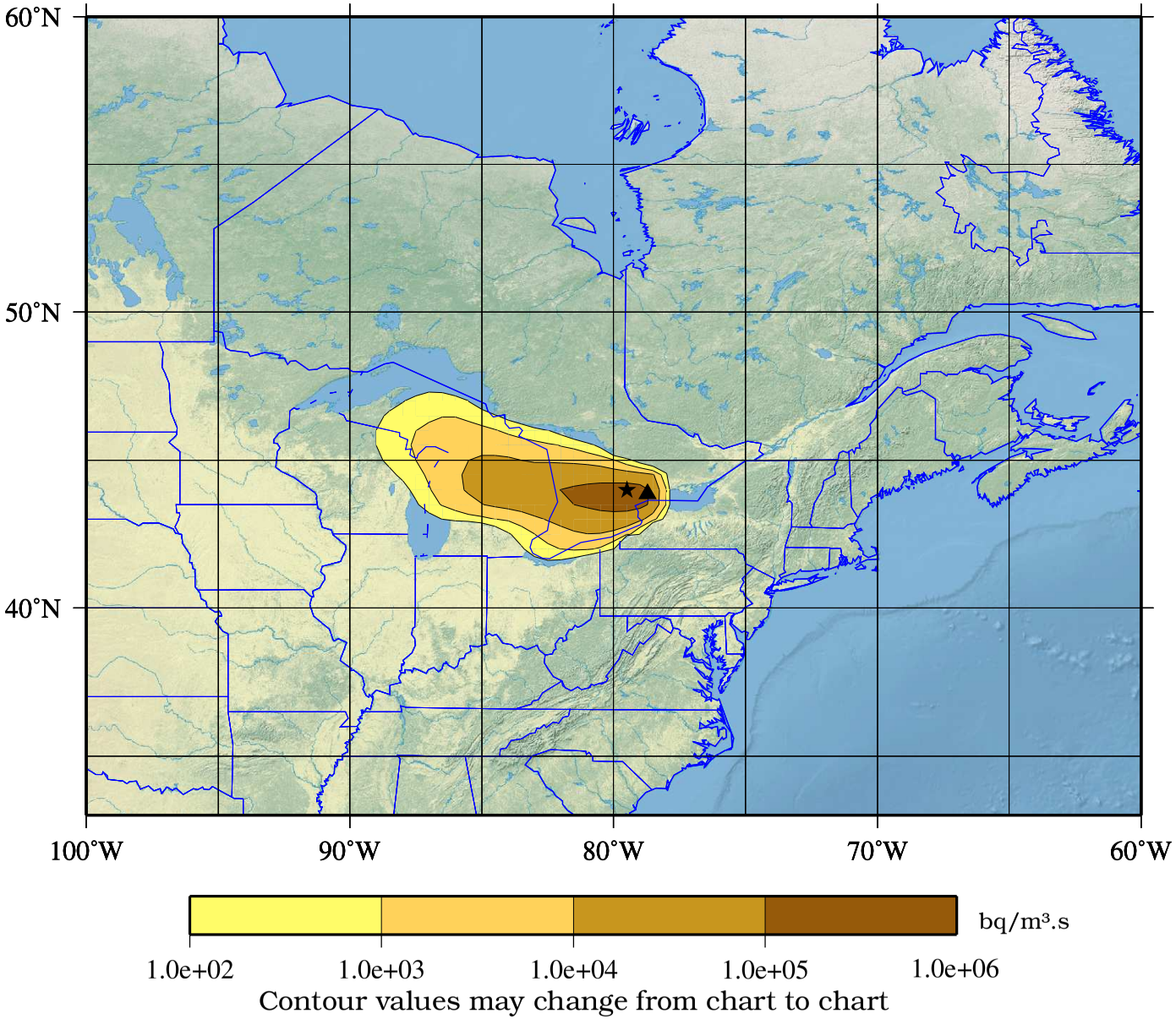
Release Time date : 08 UTC 19 May 2020
Release Location in decimal degrees : 43.86861N 78.72487W
Location name (if known) : DARLINGTON_20200519
Emission duration : 72h00
Emission (per hour) : 1111111200.0000 bq
Substance released : Kr-85
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological 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 20200519 Exercise 19/05/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 16 hours
valid 20/05/2020 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : DARLINGTON 20200519
Emission start : 19/05/2020 08h00 UTC
Release duration : 72h
Lat : 43.86861 N ; 43º52'6" N
Lon : 78.7249 W ; 78º43'29" W
Emission rate : 1.1e+13 bq/h
Base : 0m
Top : 500m
Released pollutant : Kr-85

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/05/2020 00UTC

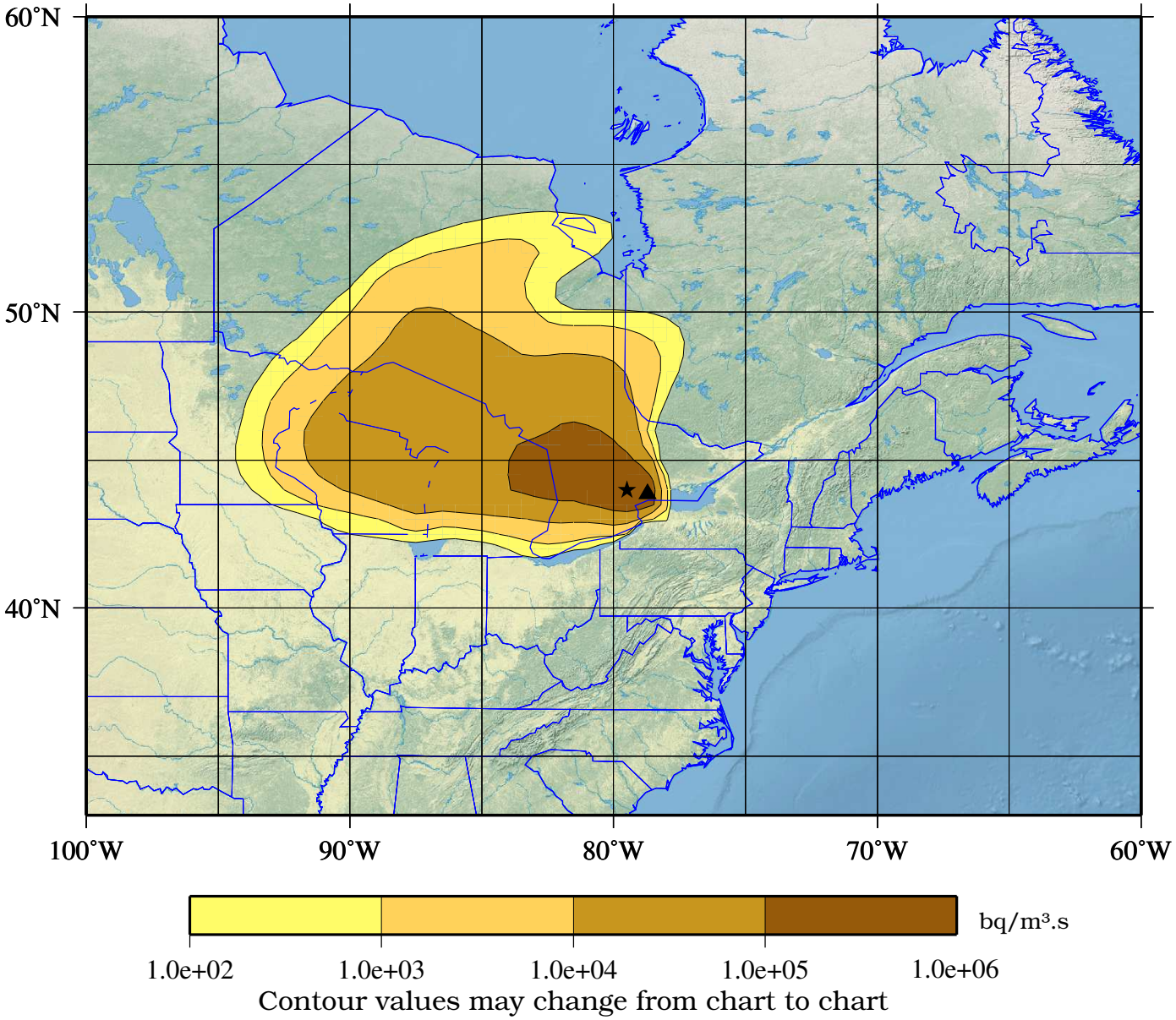
Max value for current step :
225944 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/05/2020 09:22:54 UTC

DARLINGTON 20200519 Exercise 19/05/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 21/05/2020 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Base : 0m
Top : 500m
Released pollutant : Kr-85

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/05/2020 00UTC

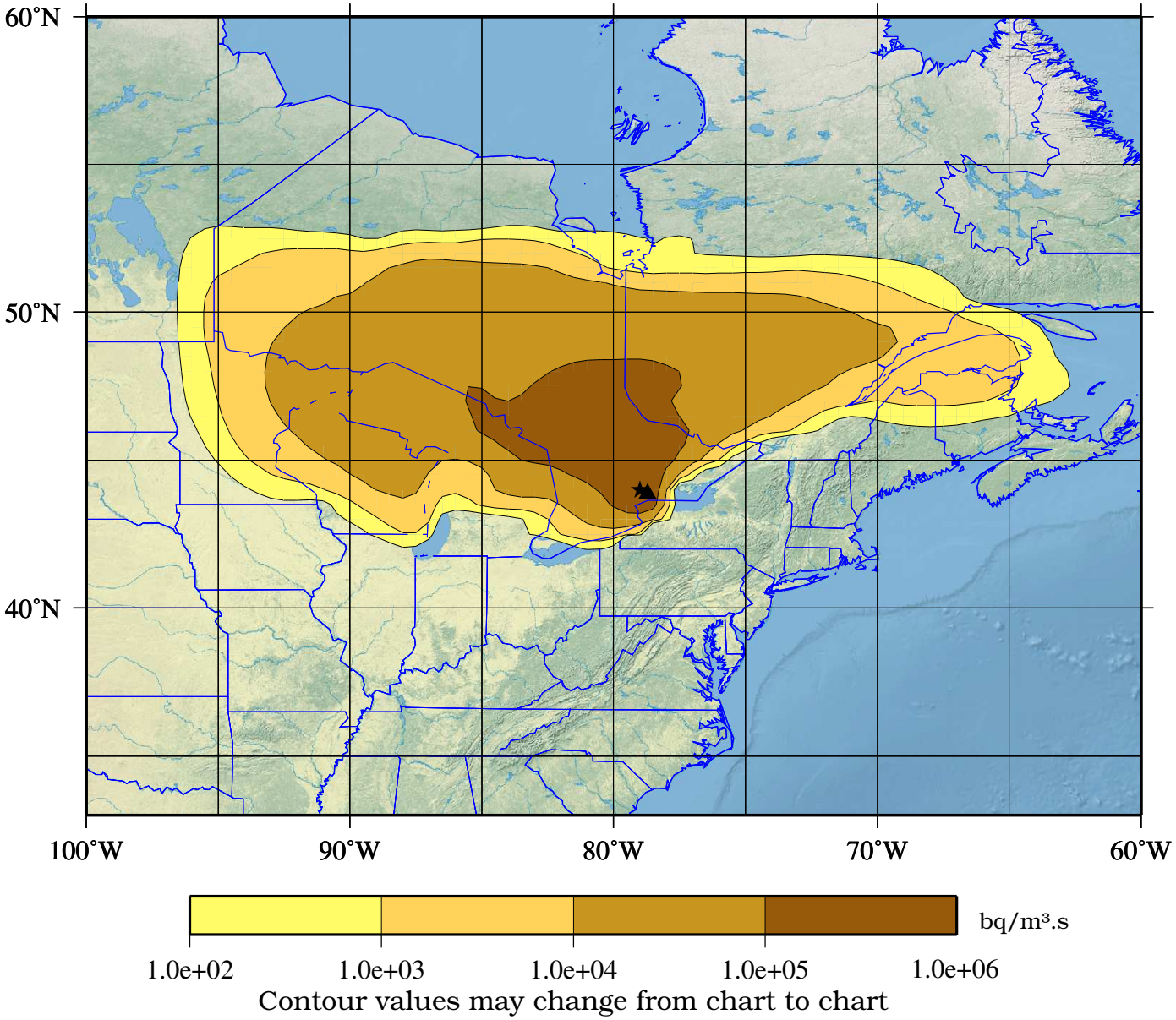
Max value for current step :
568853 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/05/2020 09:22:54 UTC

DARLINGTON 20200519 Exercise 19/05/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 22/05/2020 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Emission rate : 1.1e+13 bq/h
Base : 0m
Top : 500m
Released pollutant : Kr-85

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/05/2020 00UTC

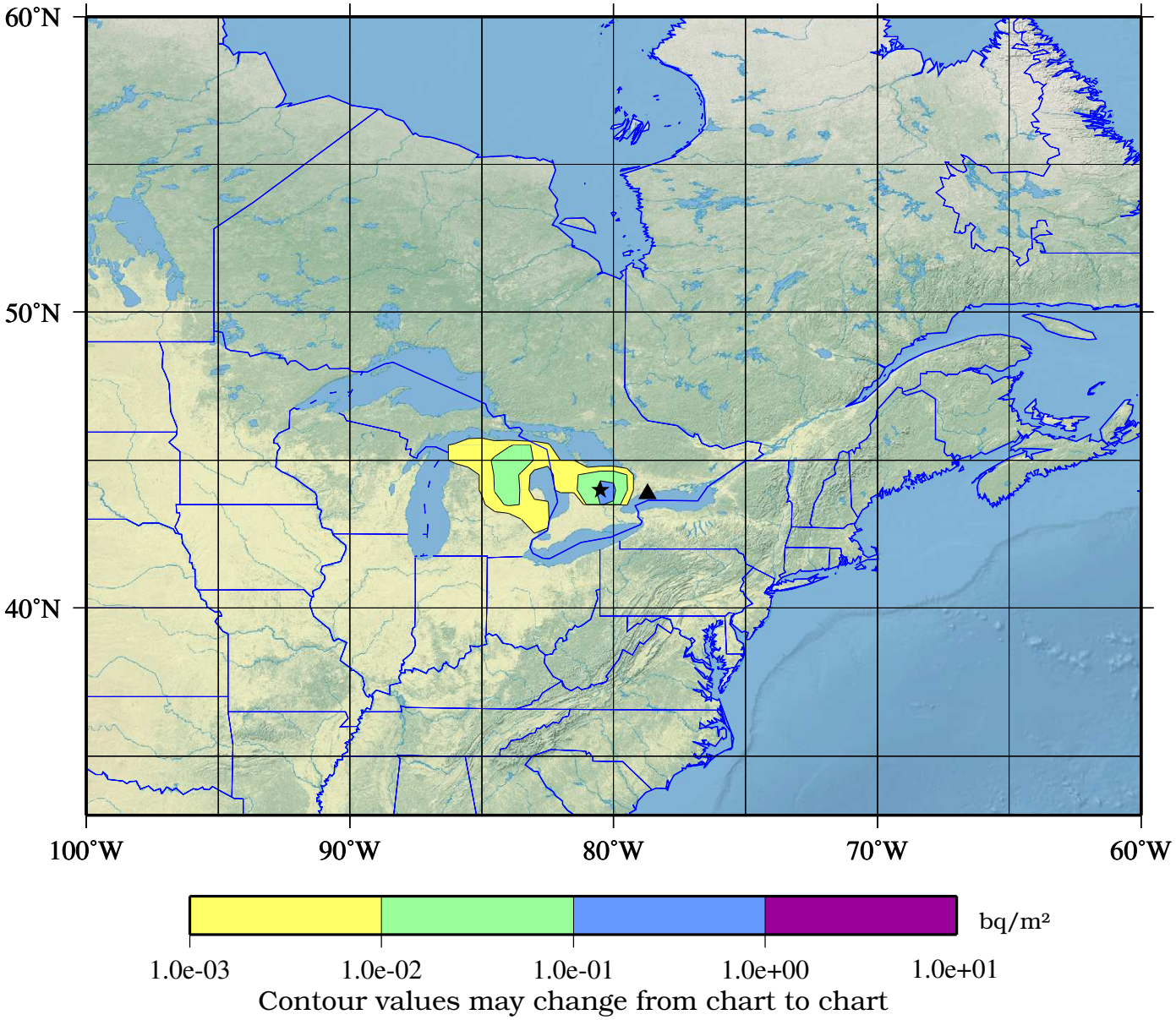
Max value for current step :
914113 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/05/2020 09:22:54 UTC

DARLINGTON 20200519 Exercise 19/05/2020

Total deposition (bq/m²)
from release start
valid 20/05/2020 00h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/05/2020 00UTC

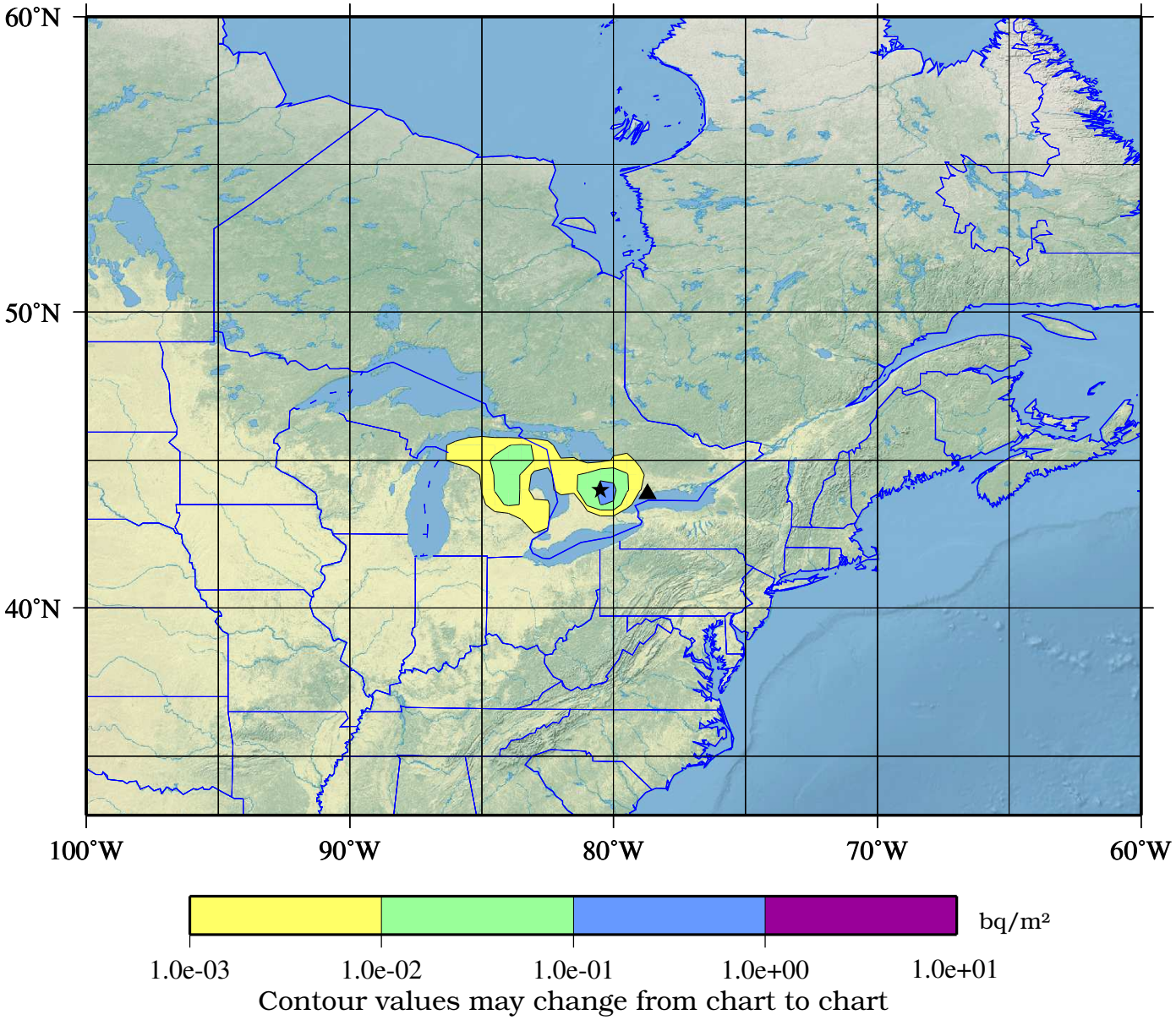
Max value for current step :
0.172584 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/05/2020 09:22:54 UTC

DARLINGTON 20200519 Exercise 19/05/2020

Total deposition (bq/m²)
from release start
valid 21/05/2020 00h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/05/2020 00UTC

Max value for current step :
0.17338 bq/m²

Max position ★
Source position ▲

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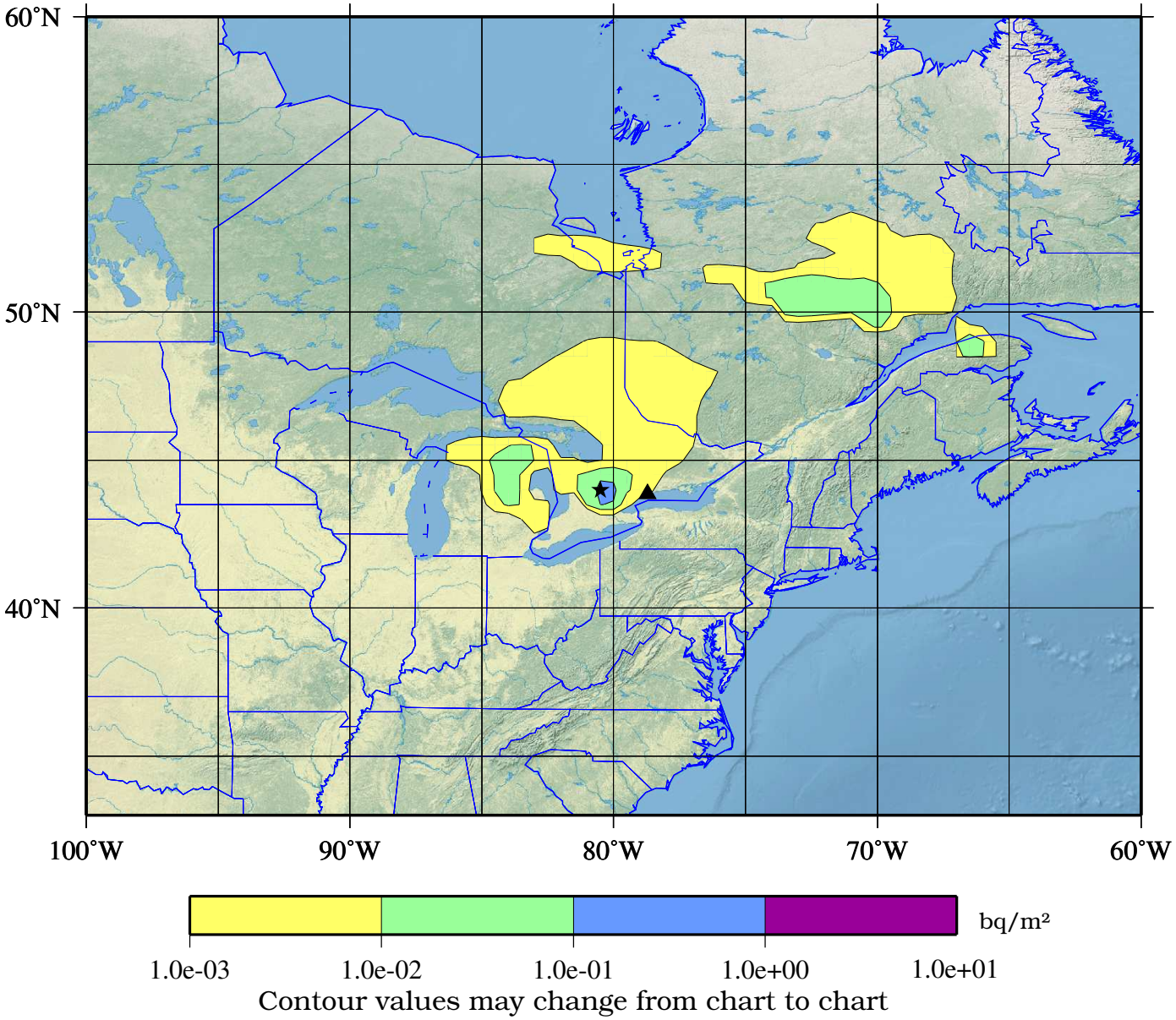
TOULOUSE RSMC
Issued 19/05/2020 09:22:54 UTC

DARLINGTON 20200519 Exercise 19/05/2020

Total deposition (bq/m²)
from release start
valid 22/05/2020 00h00 UTC



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Source position ▲

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