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 : 1524 UTC Date : 05 Dec 2018

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

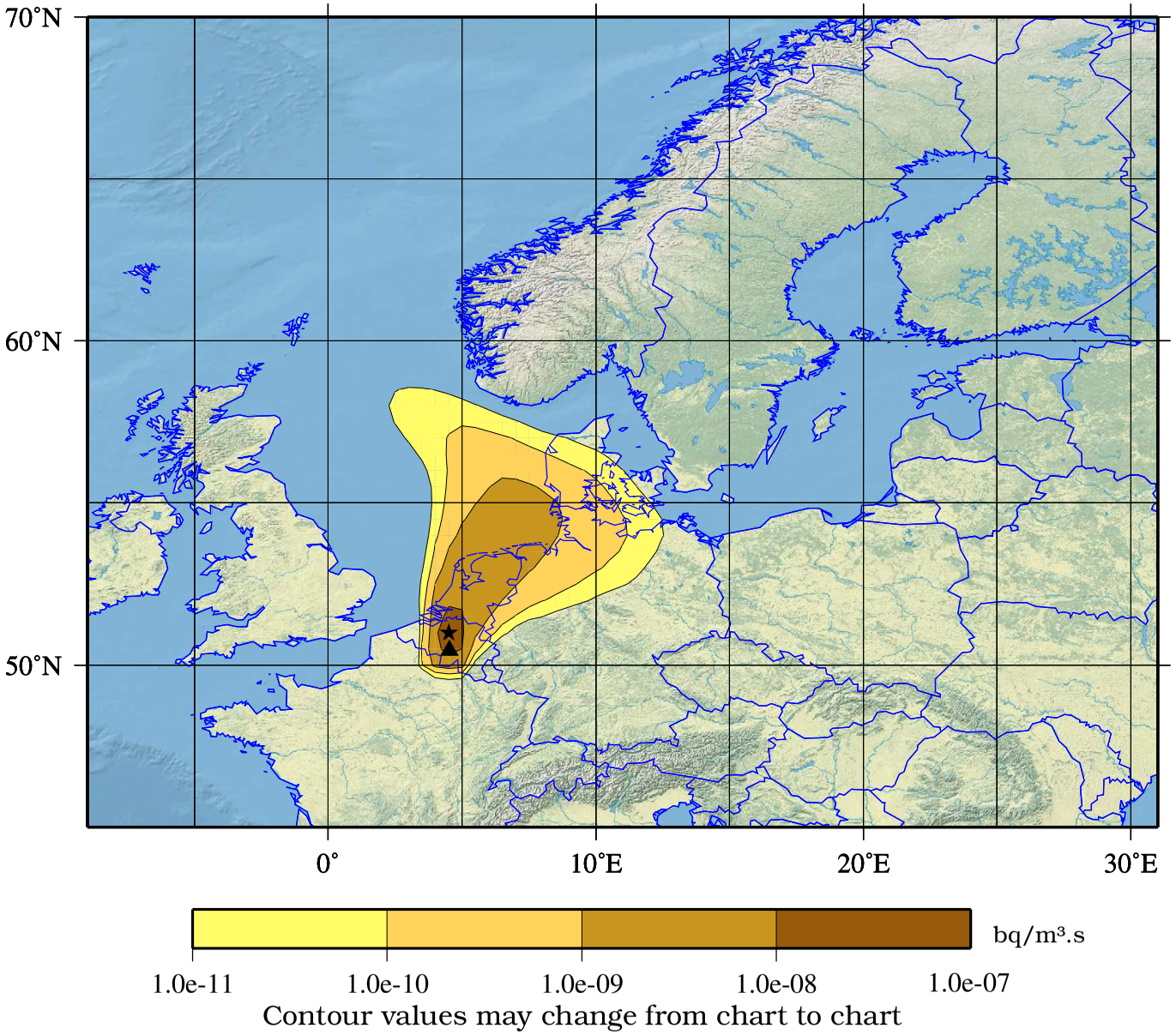
Release Time date : 13 UTC 05 Dec 2018
Release Location in decimal degrees : 50.45056N 4.535E
Location name (if known) : IRE-FLEURUS
Emission duration : 06h00
Emission (per hour) : 1.0000 bq
Substance released : I-131
Vertical distribution : Uniform 0 - 100 m (AGL)
Meteorological Model : ECMWF
Dispersion 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

IRE-FLEURUS Exercise 05/12/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 23 hours
valid 06/12/2018 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : IRE-FLEURUS
Emission start : 05/12/2018 13h00 UTC
Release duration : 06h00
Lat : 50.45056 N ; 50º27'2" N
Lon : 4.535 E ; 4º32'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 100m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/12/2018 00UTC

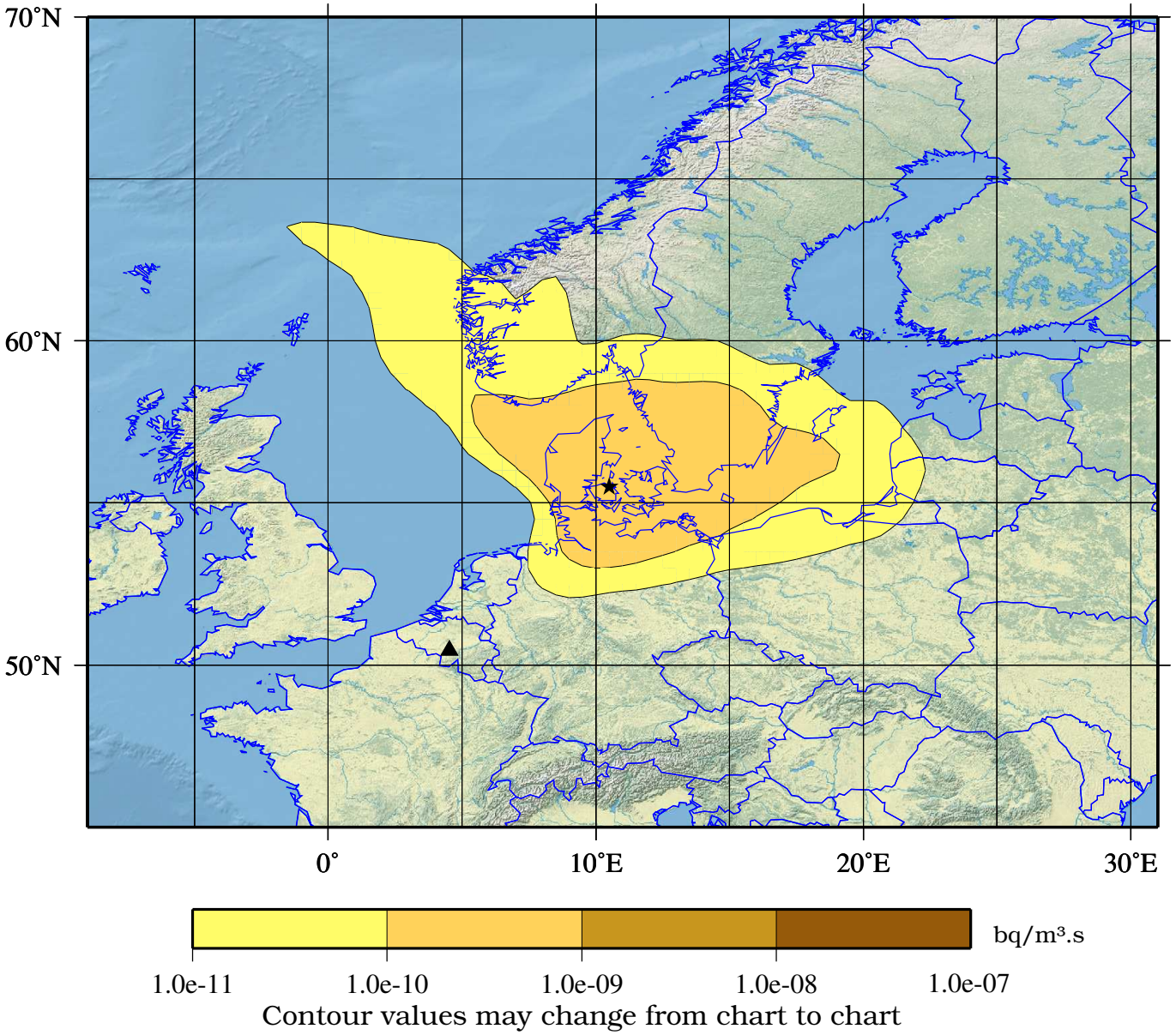
Max value for current step :
2.05116e-08 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/12/2018 15:11:41 UTC

IRE-FLEURUS Exercise 05/12/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 07/12/2018 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Lon : 4.535 E ; 4º32'6" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 100m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/12/2018 00UTC

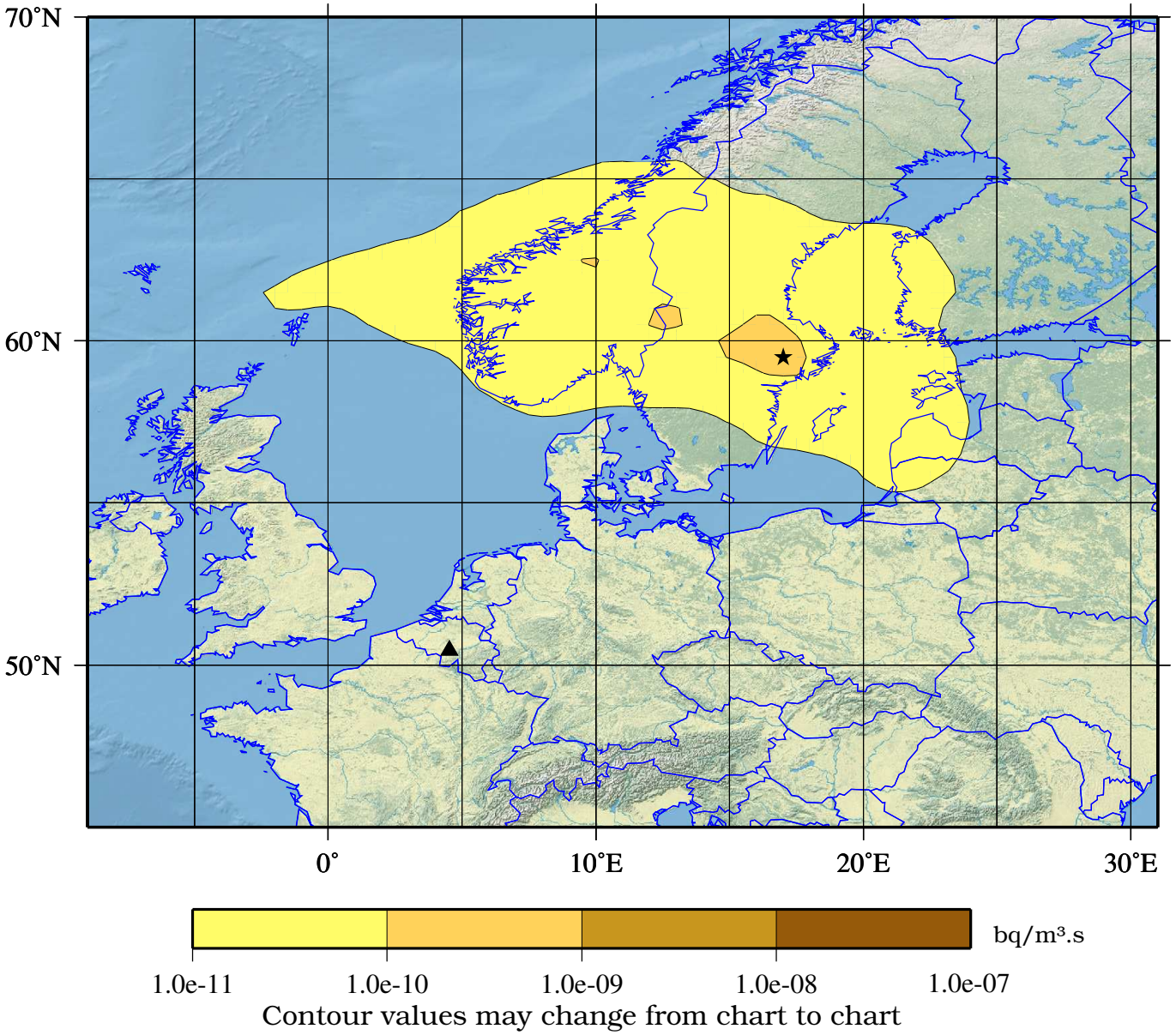
Max value for current step :
4.77529e-10 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/12/2018 15:11:41 UTC

IRE-FLEURUS Exercise 05/12/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 08/12/2018 12h00 UTC



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MOCAGE Accident
Meteo model : ECMWF

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Base : 0m
Top : 100m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/12/2018 00UTC

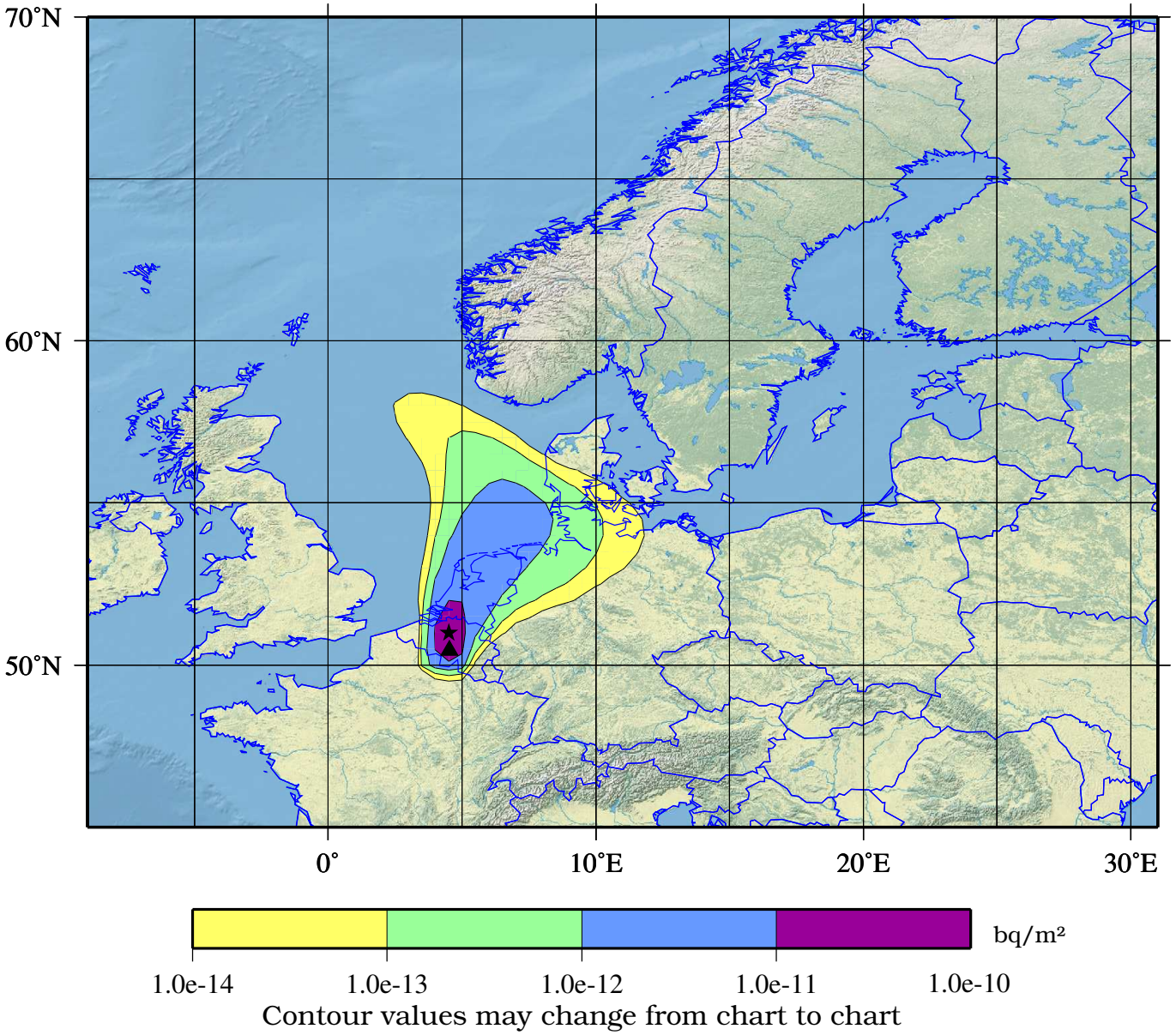
Max value for current step :
1.1508e-10 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/12/2018 15:11:41 UTC

IRE-FLEURUS Exercise 05/12/2018

Total deposition (bq/m²)
from release start
valid 06/12/2018 12h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
05/12/2018 00UTC

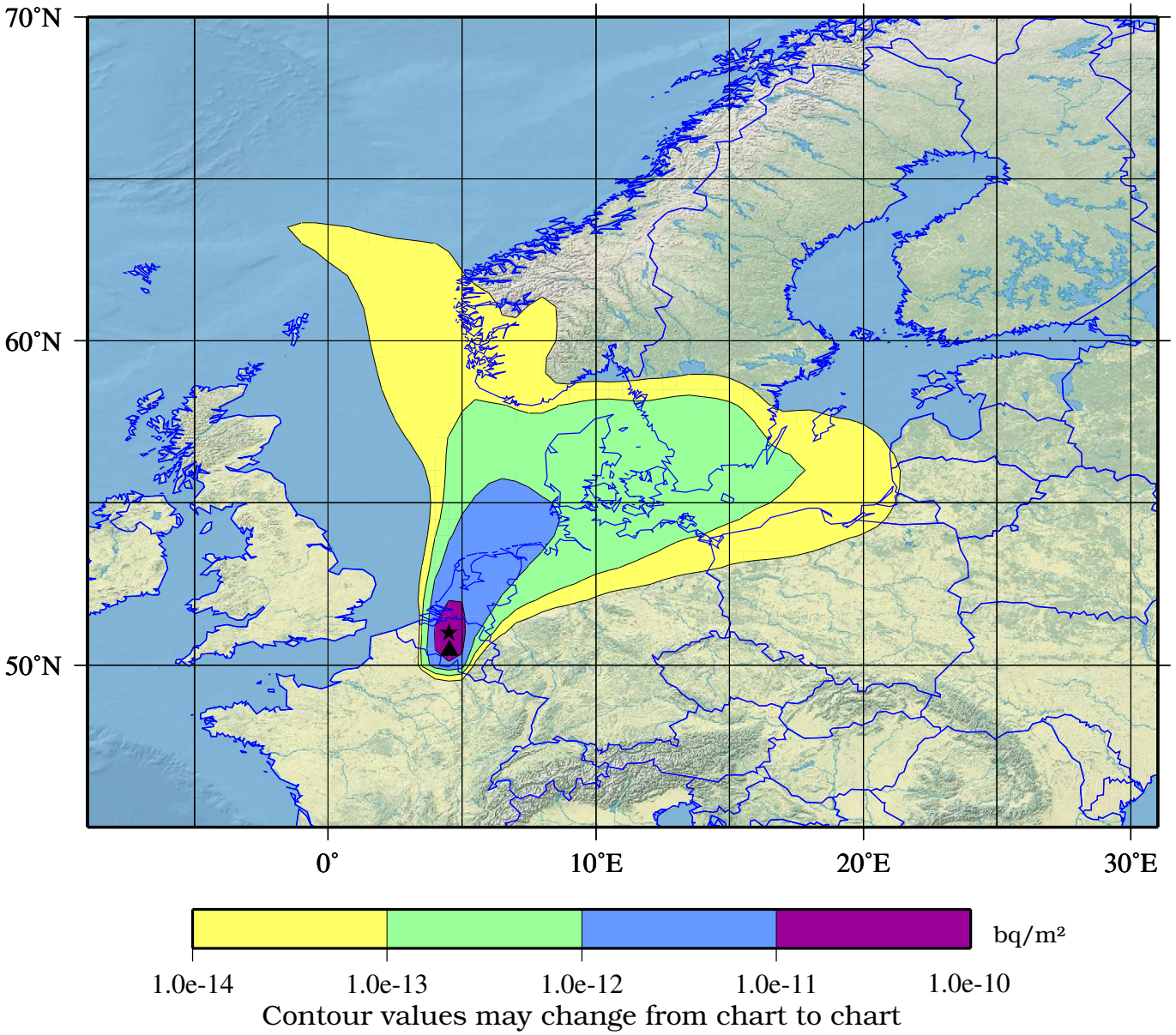
Max value for current step :
2.92724e-11 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/12/2018 15:11:41 UTC

IRE-FLEURUS Exercise 05/12/2018

Total deposition (bq/m²)
from release start
valid 07/12/2018 12h00 UTC



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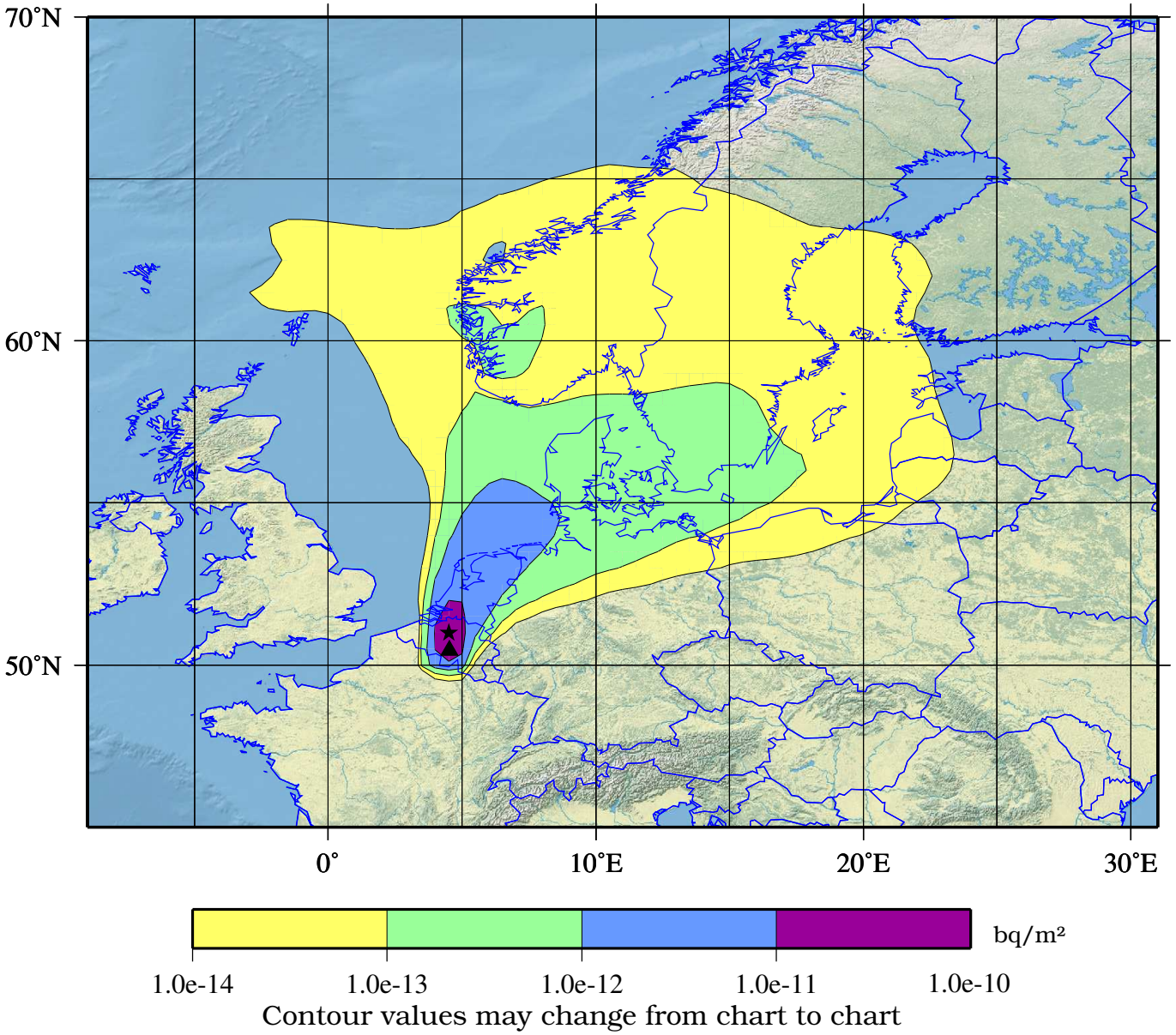

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