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 : 1118 UTC Date : 20 Nov 2018

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

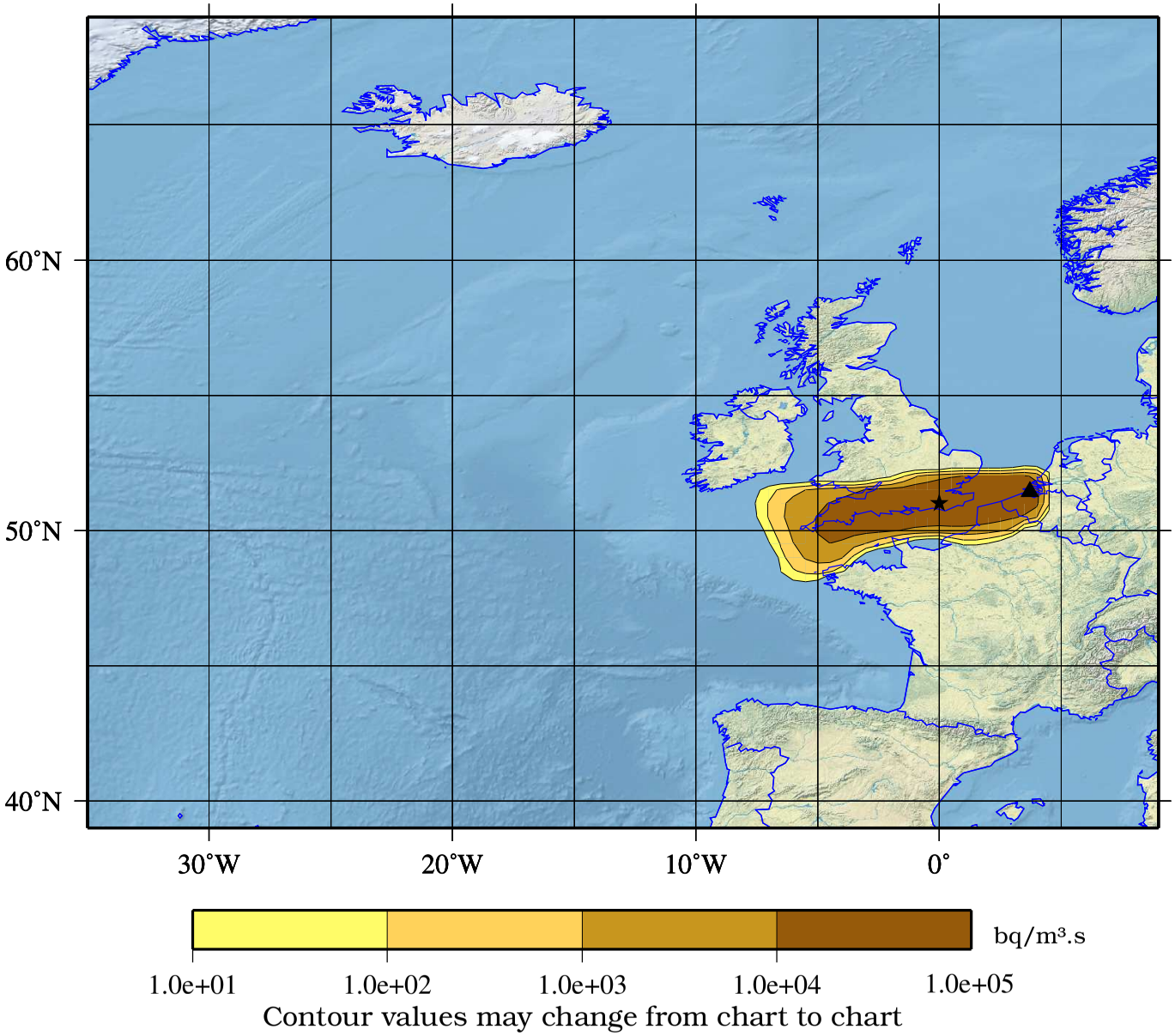
Release Time date : 07 UTC 20 Nov 2018
Release Location in decimal degrees : 51.43181N 3.71623E
Location name (if known) : BORSSELE
Emission duration : 03h00
Emission (per hour) : 30833316000.0000 bq
Substance released : I-131
Vertical distribution : Uniform 20 - 500 m (AGL)
Meteorological Model : ARPEGE
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

BORSSELE Exercise 20/11/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 17 hours
valid 21/11/2018 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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RELEASE DATA
Site : BORSSELE
Emission start : 20/11/2018 07h30 UTC
Release duration : 03h00
Lat : 51.43181 N ; 51º25'54" N
Lon : 3.71623 E ; 3º42'58" E
Emission rate : 3.1e+13 bq/h
Base : 20m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/11/2018 00UTC

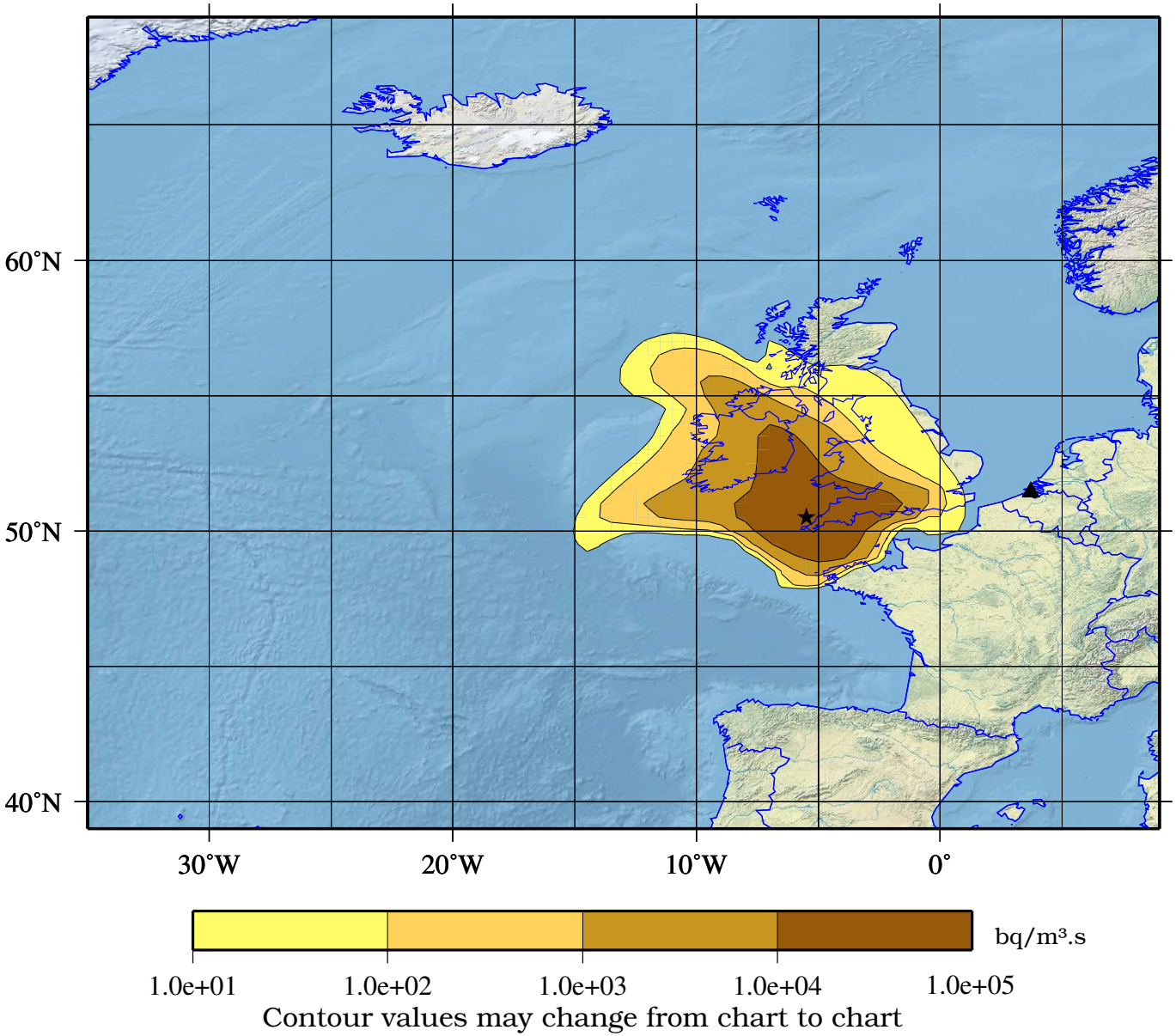
Max value for current step :
95940.1 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/11/2018 11:09:55 UTC

BORSSELE Exercise 20/11/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 22/11/2018 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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RELEASE DATA
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Emission start : 20/11/2018 07h30 UTC
Release duration : 03h00
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Lon : 3.71623 E ; 3º42'58" E
Emission rate : 3.1e+13 bq/h
Base : 20m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/11/2018 00UTC

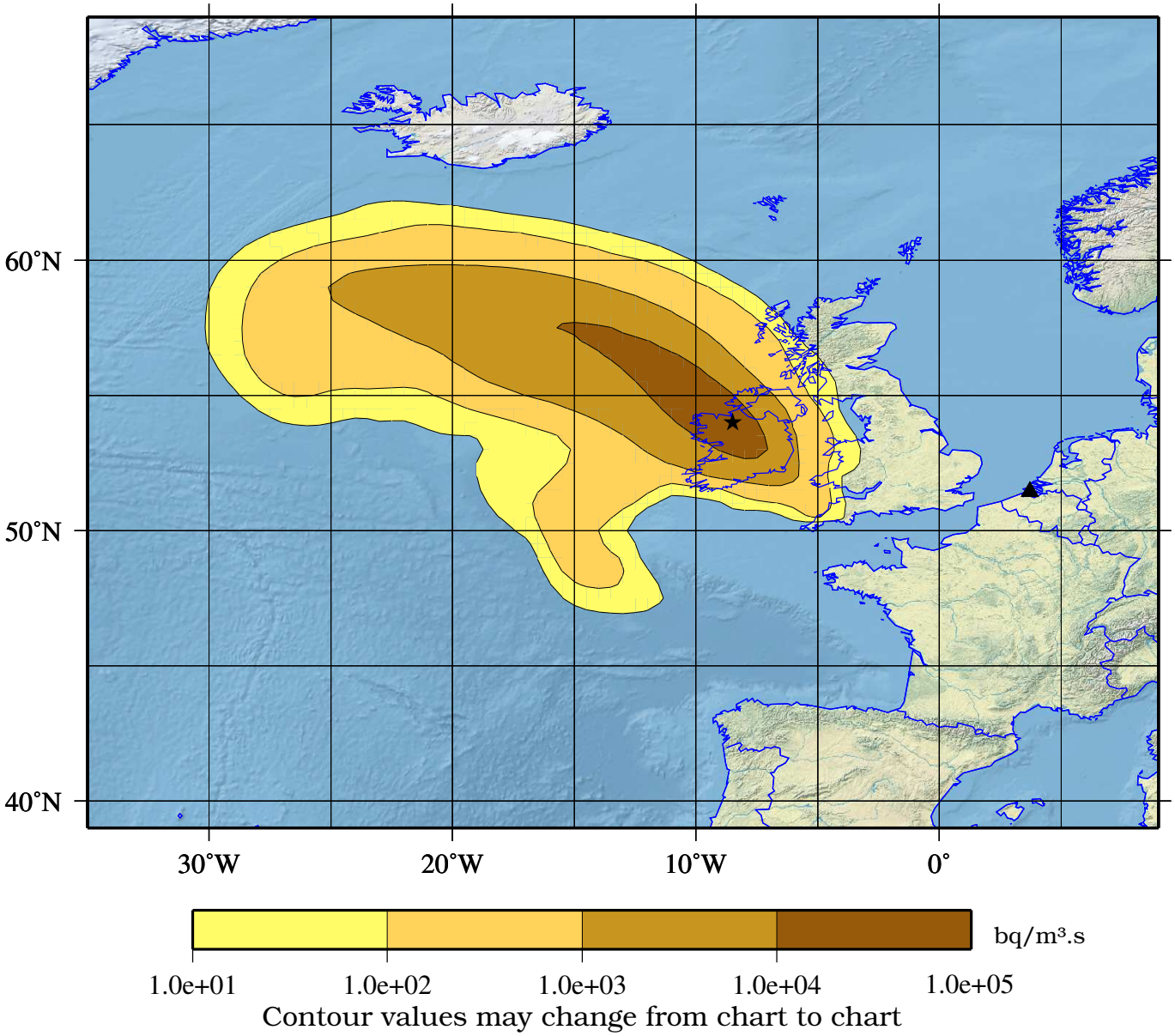
Max value for current step :
88104.9 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/11/2018 11:09:55 UTC

BORSSELE Exercise 20/11/2018

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 23/11/2018 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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Base : 20m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/11/2018 00UTC

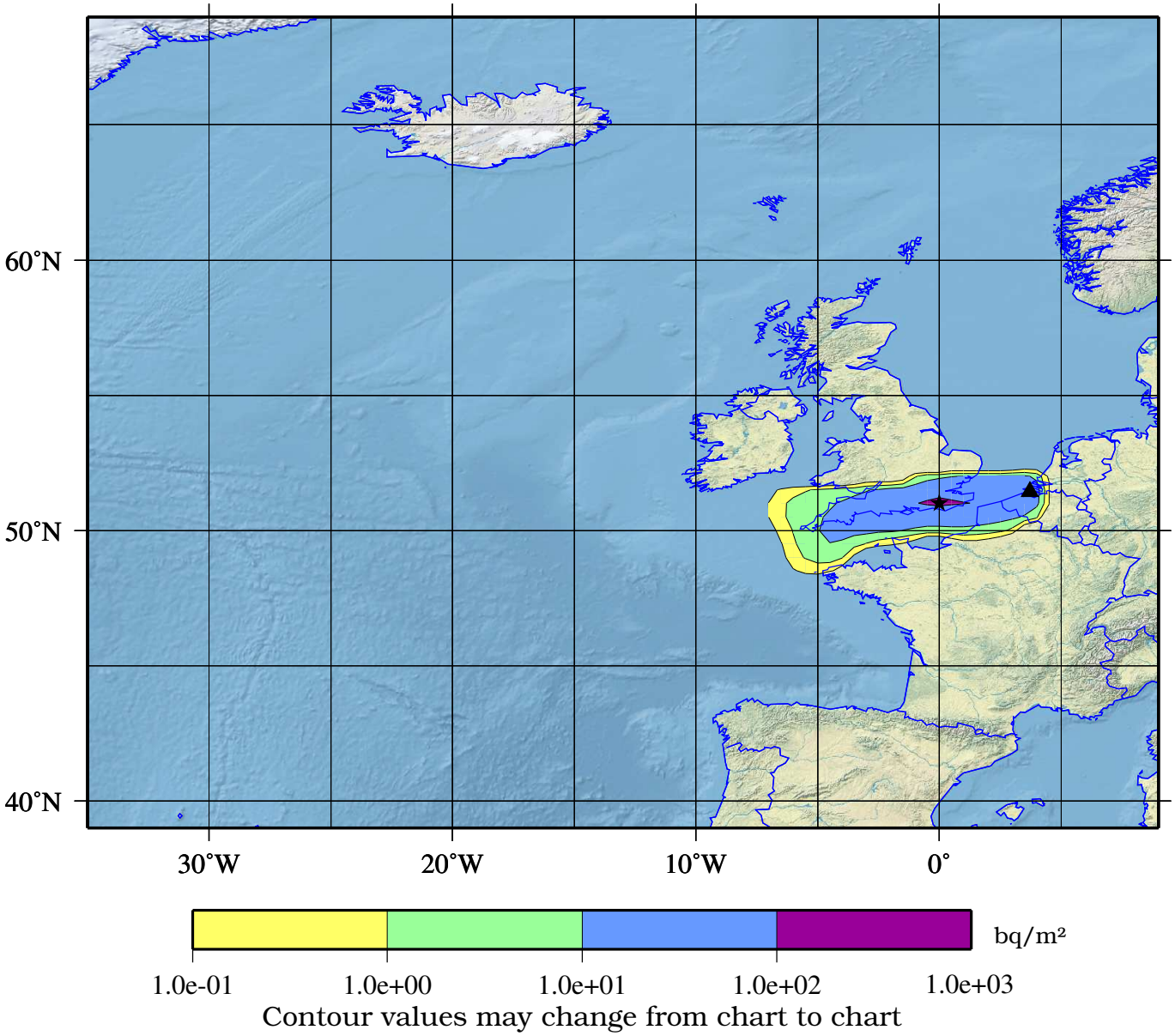
Max value for current step :
15488.2 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/11/2018 11:09:55 UTC

BORSSELE Exercise 20/11/2018

Total deposition (bq/m²)
from release start
valid 21/11/2018 00h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/11/2018 00UTC

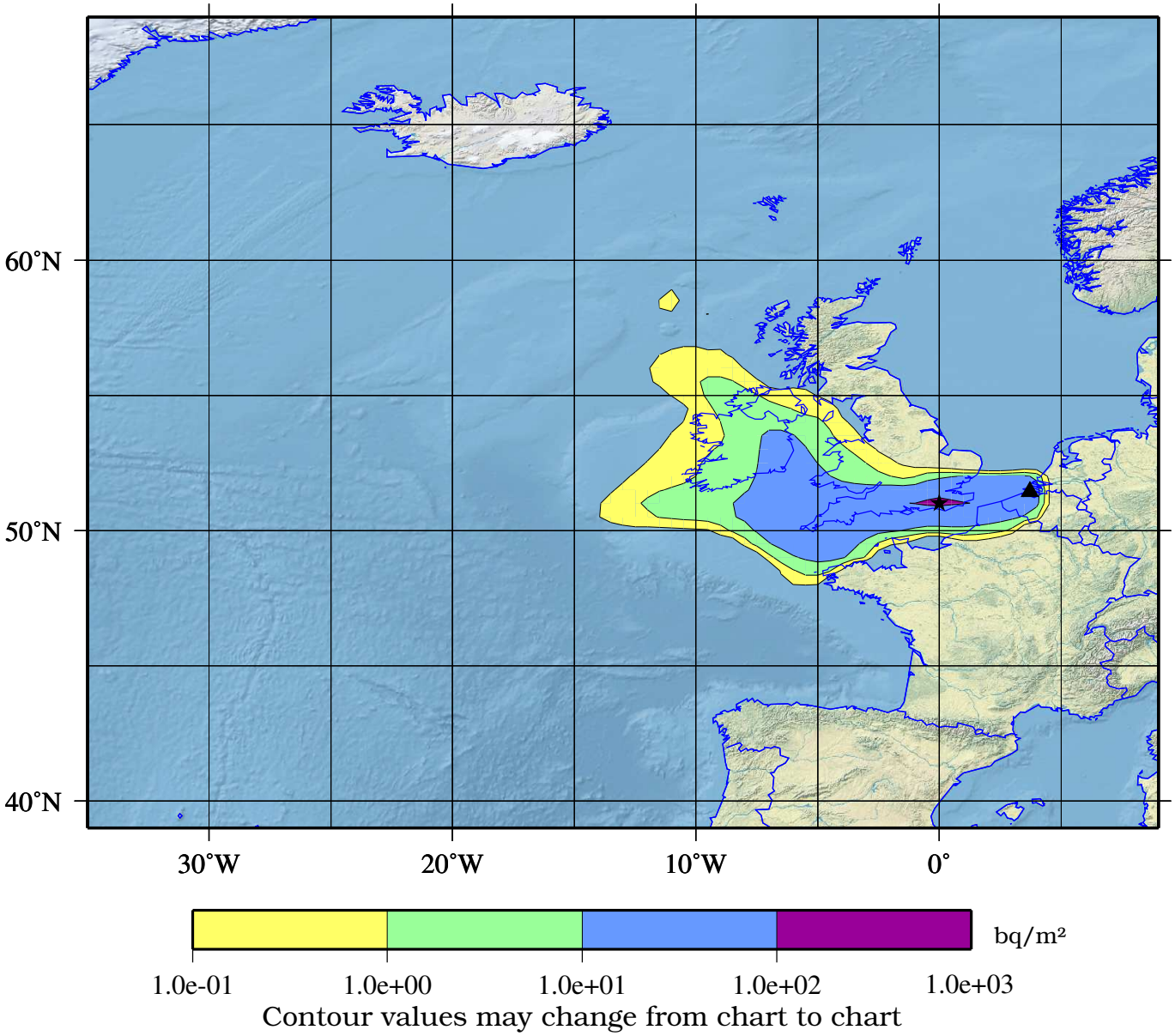
Max value for current step :
116.372 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/11/2018 11:09:55 UTC

BORSSELE Exercise 20/11/2018

Total deposition (bq/m²)
from release start
valid 22/11/2018 00h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/11/2018 00UTC

Max value for current step :
116.825 bq/m²

Max position ★
Source position ▲

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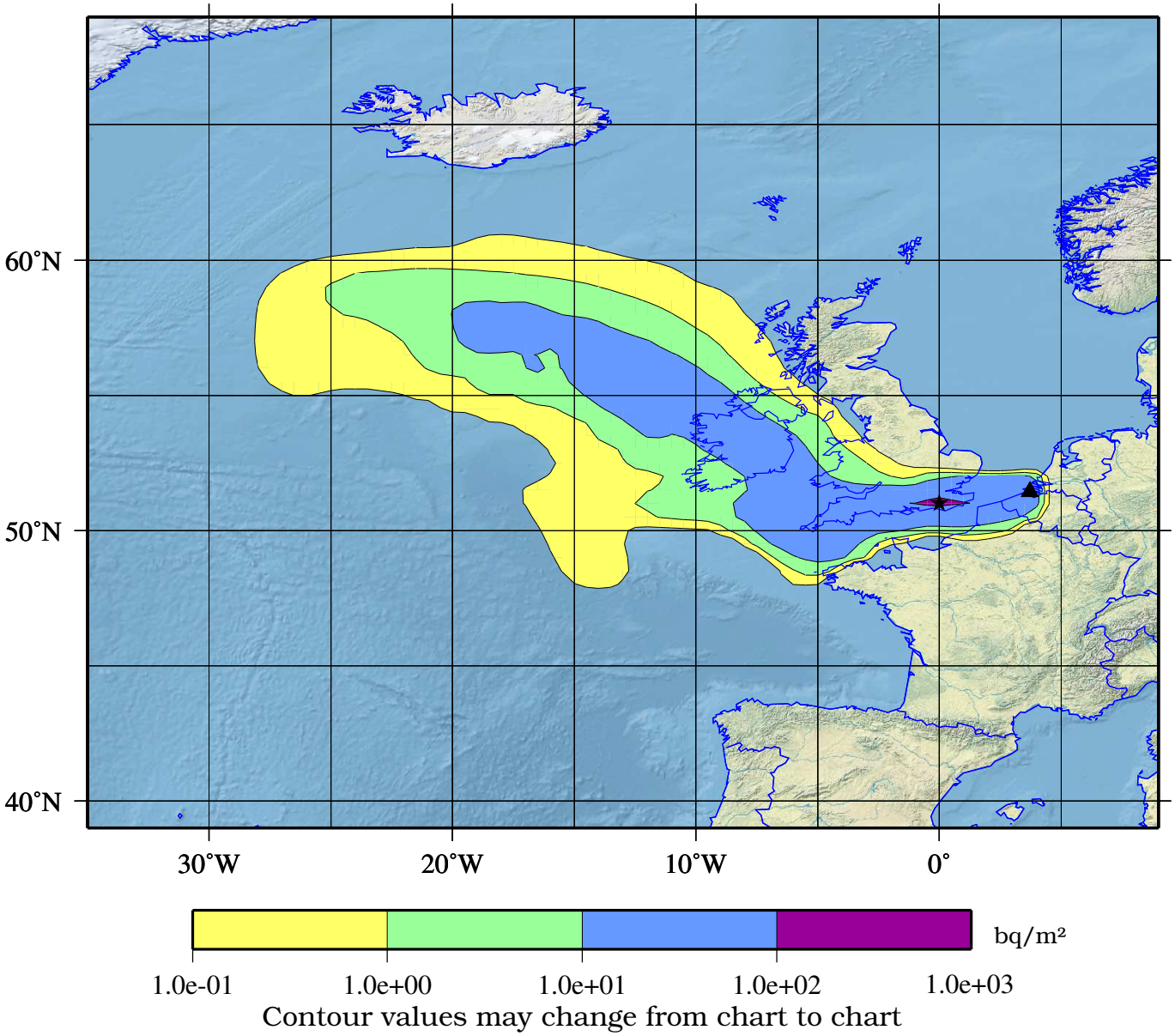
TOULOUSE RSMC
Issued 20/11/2018 11:09:55 UTC

BORSSELE Exercise 20/11/2018

Total deposition (bq/m²)
from release start
valid 23/11/2018 00h00 UTC



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Source position ▲

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