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 : 1114 UTC Date : 20 Aug 2019

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

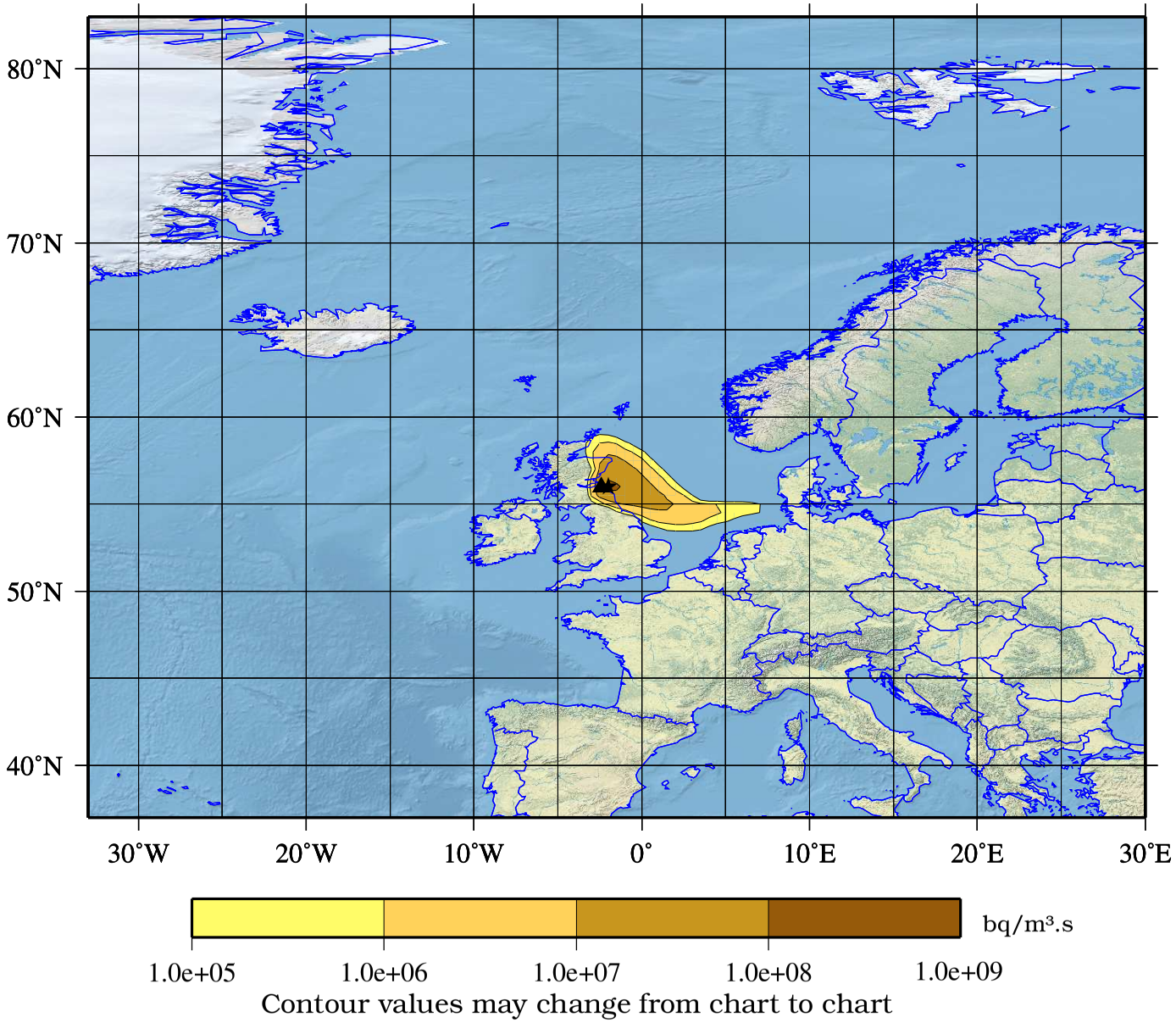
Release Time date : 06 UTC 20 Aug 2019
Release Location in decimal degrees : 55.96756N 2.40892W
Location name (if known) : TORNESS
Emission duration : 12h00
Emission (per hour) : 4666680000.0000 bq
Substance released : I-131
Vertical distribution : Uniform 10 - 500 m (AGL)
Meteorological Model : ARPEGE
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

TORNESS Exercise 20/08/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 18 hours
valid 21/08/2019 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ARPEGE

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RELEASE DATA

Site : TORNESS
Emission start : 20/08/2019 06h00 UTC
Release duration : 12h00
Lat : 55.96756 N ; 55º58'3" N
Lon : 2.40892 W ; 2º24'32" W
Emission rate : 4.7e+15 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
20/08/2019 00UTC

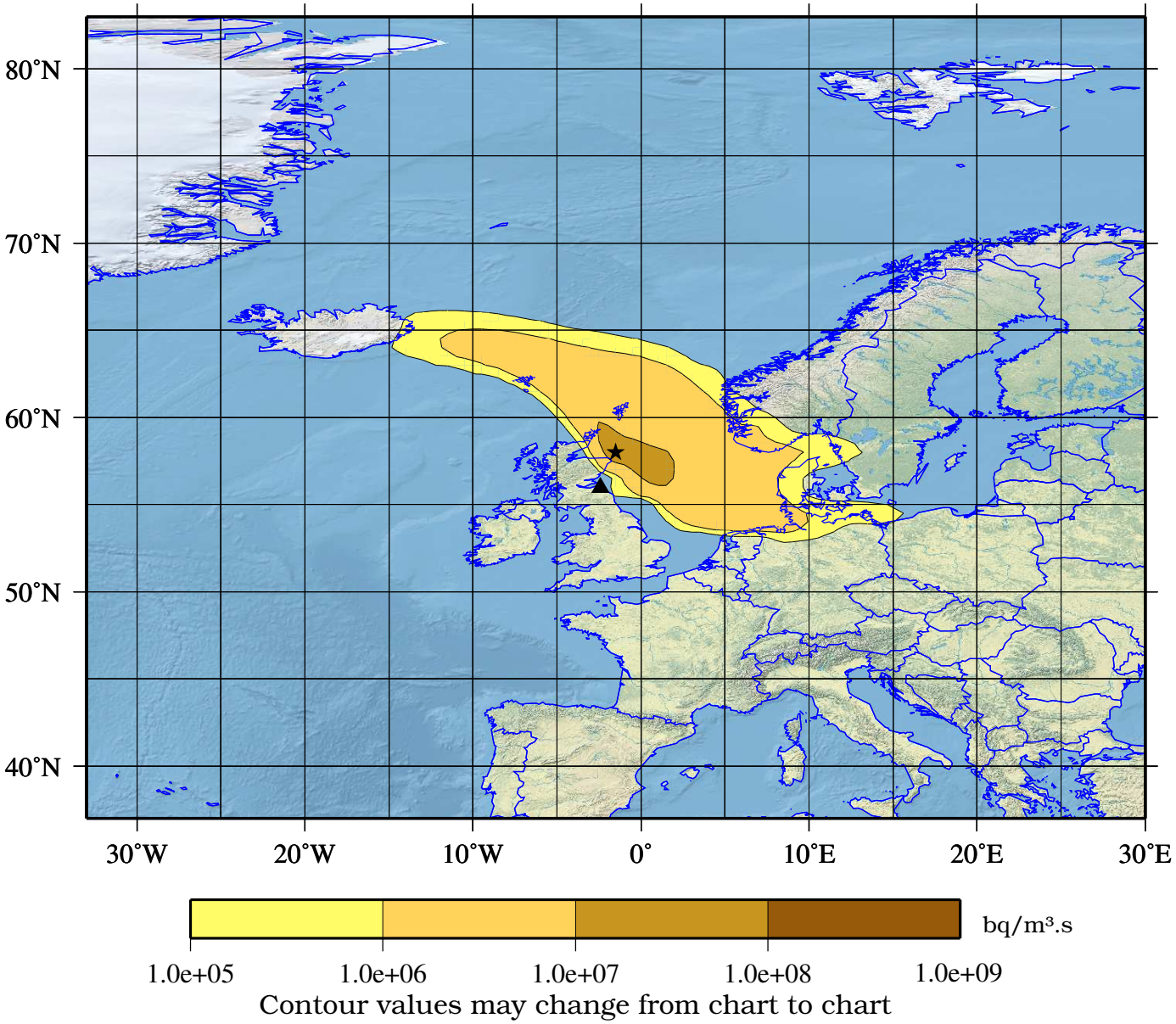
Max value for current step :
131522000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/08/2019 11:07:23 UTC

TORNESS Exercise 20/08/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 22/08/2019 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ARPEGE

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Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
20/08/2019 00UTC

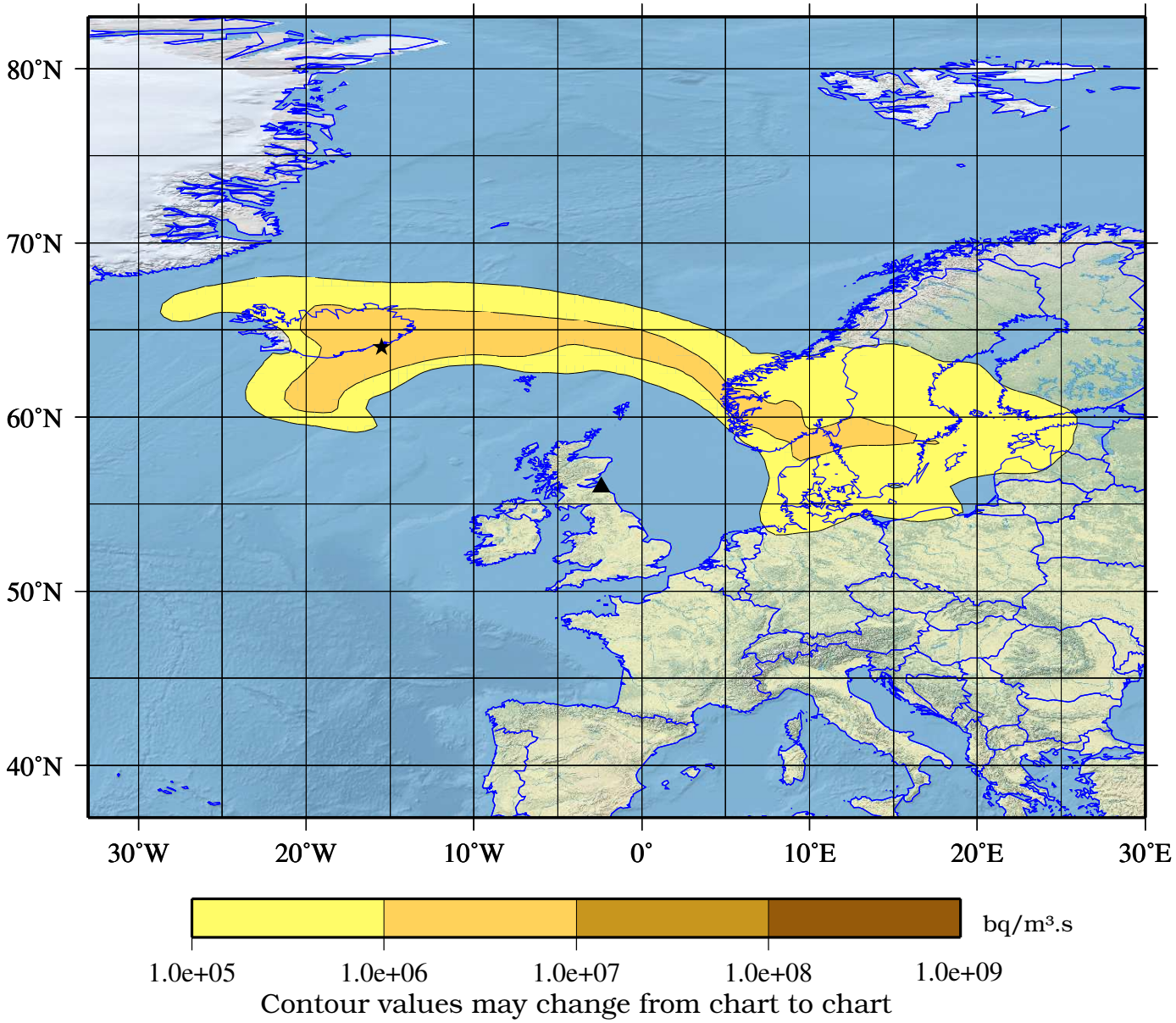
Max value for current step :
16069400 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/08/2019 11:07:23 UTC

TORNESS Exercise 20/08/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 23/08/2019 00h00 UTC



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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
20/08/2019 00UTC

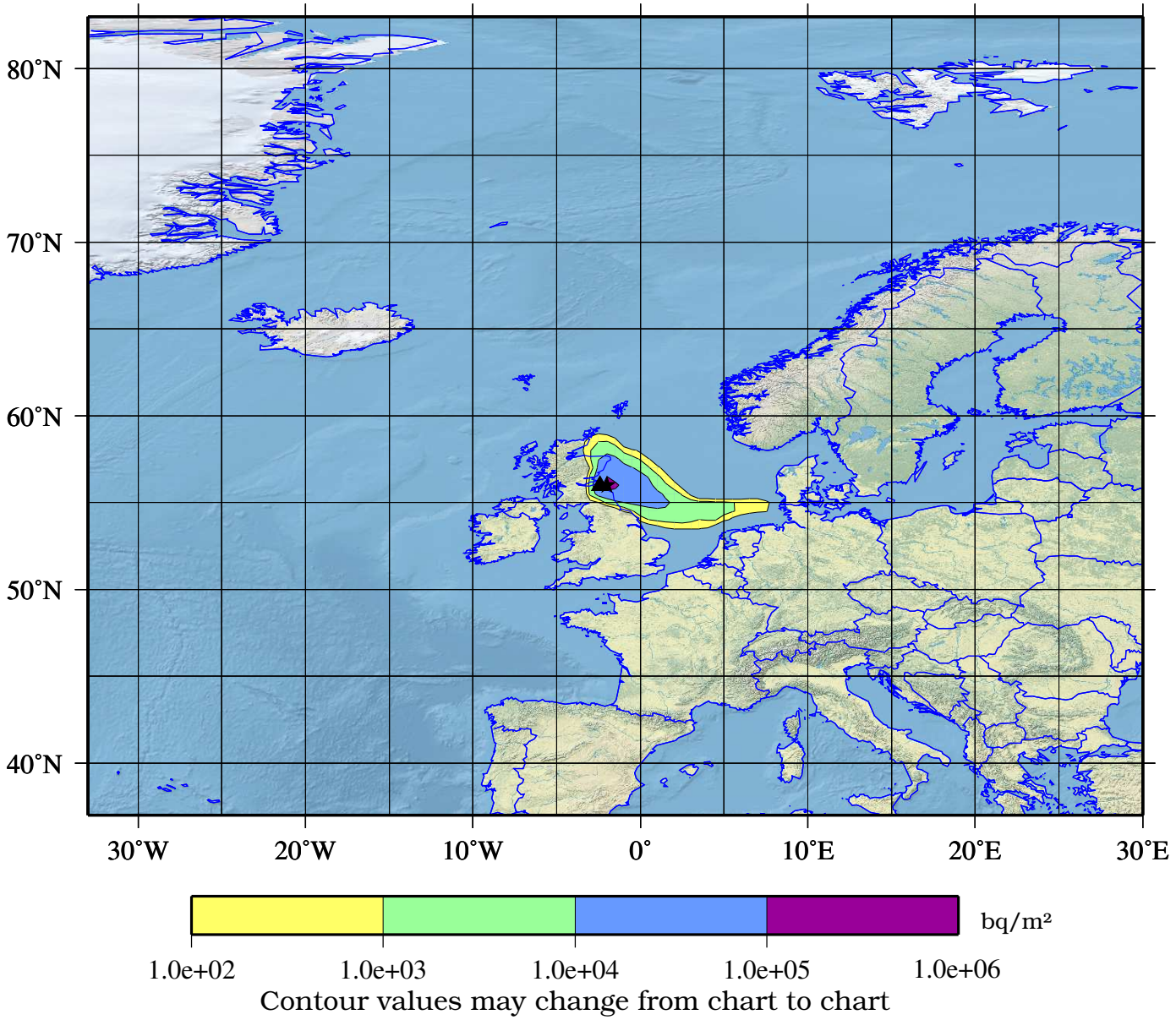
Max value for current step :
3881500 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/08/2019 11:07:23 UTC

TORNESS Exercise 20/08/2019

Total deposition (bq/m²)
from release start
valid 21/08/2019 00h00 UTC



Contour values may change from chart to chart

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Meteo model : ARPEGE

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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
20/08/2019 00UTC

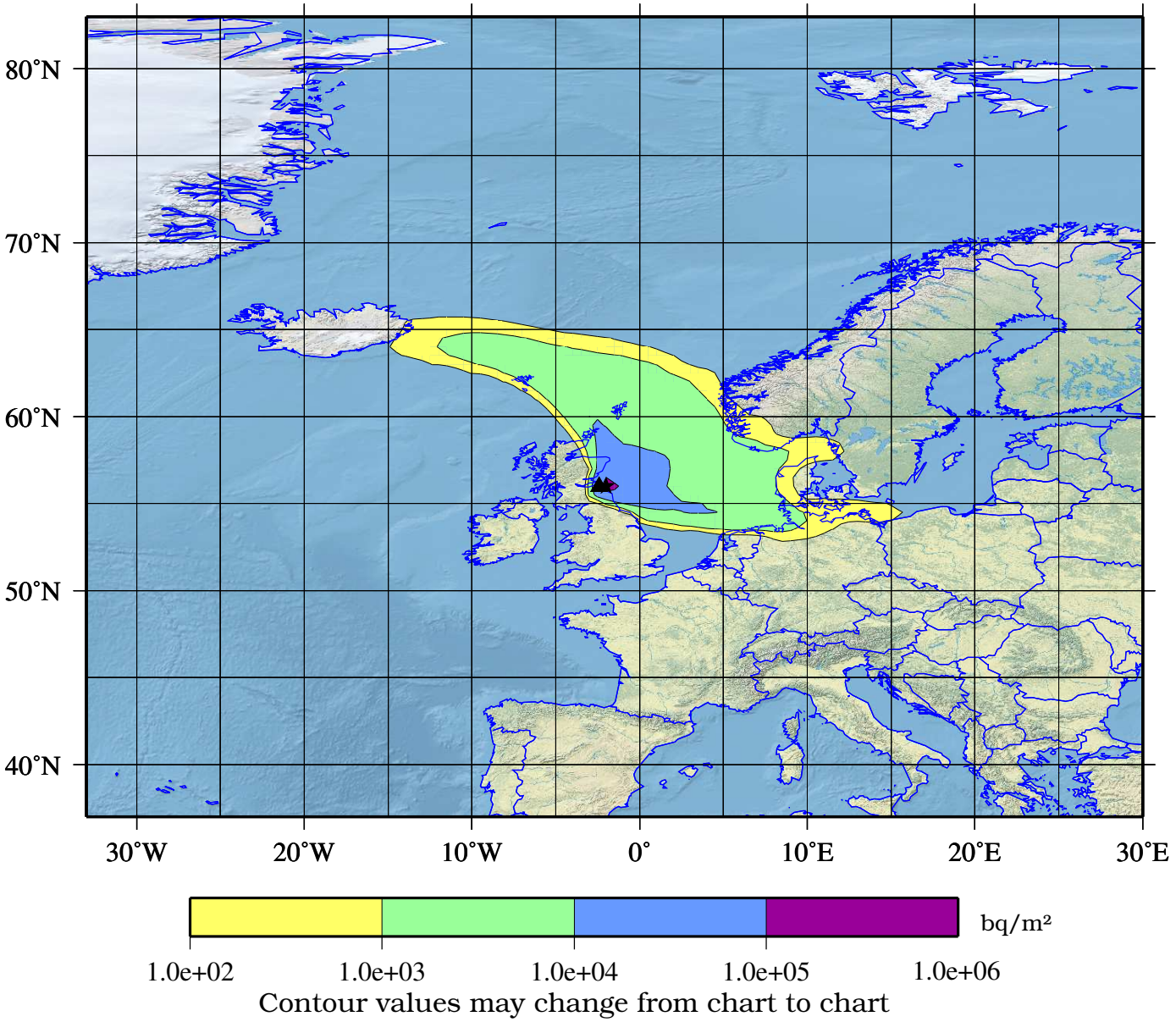
Max value for current step :
142862 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 20/08/2019 11:07:23 UTC

TORNESS Exercise 20/08/2019

Total deposition (bq/m²)
from release start
valid 22/08/2019 00h00 UTC



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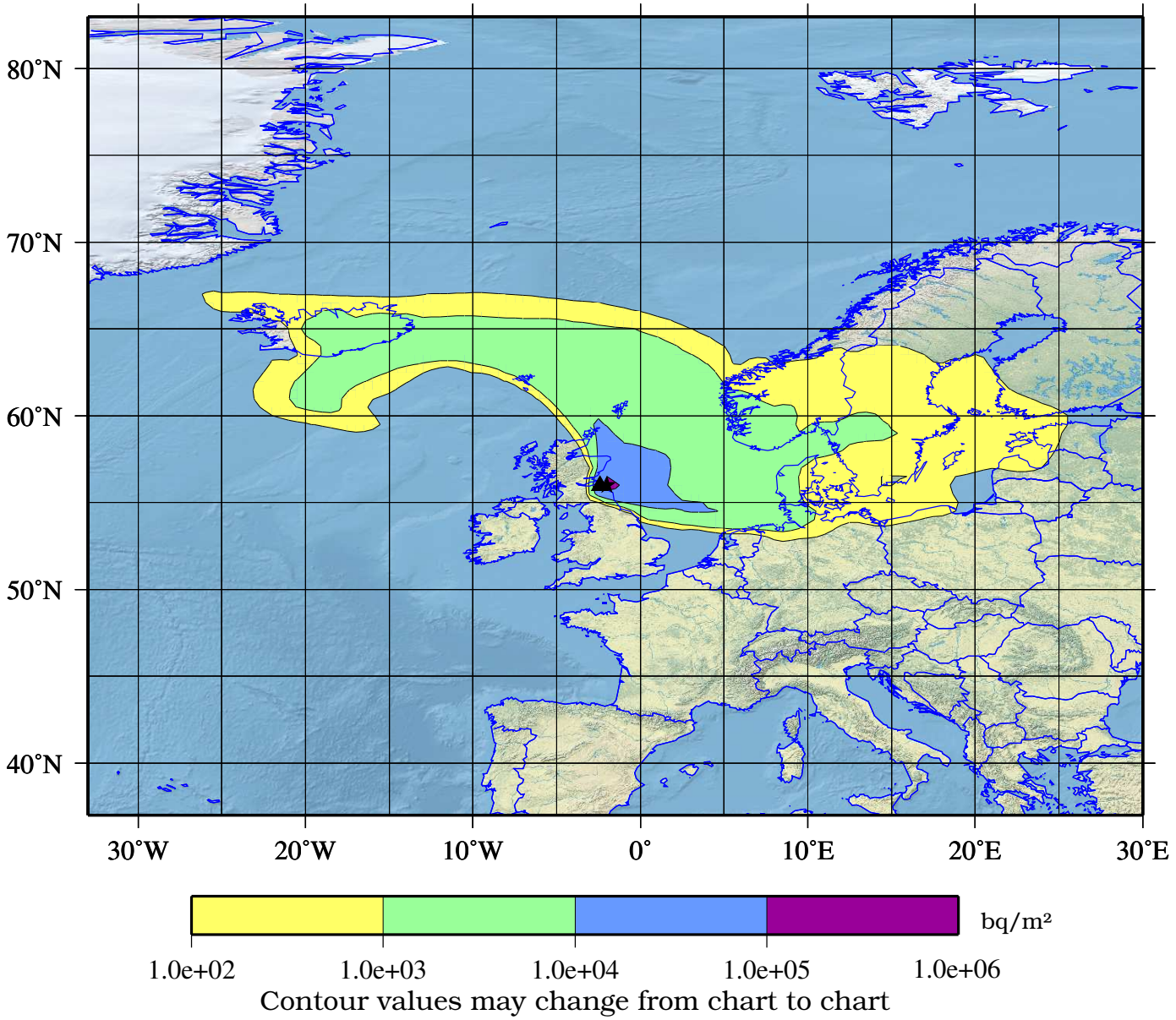

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Meteo model : ARPEGE

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