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 : 0934 UTC Date : 18 Feb 2020

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

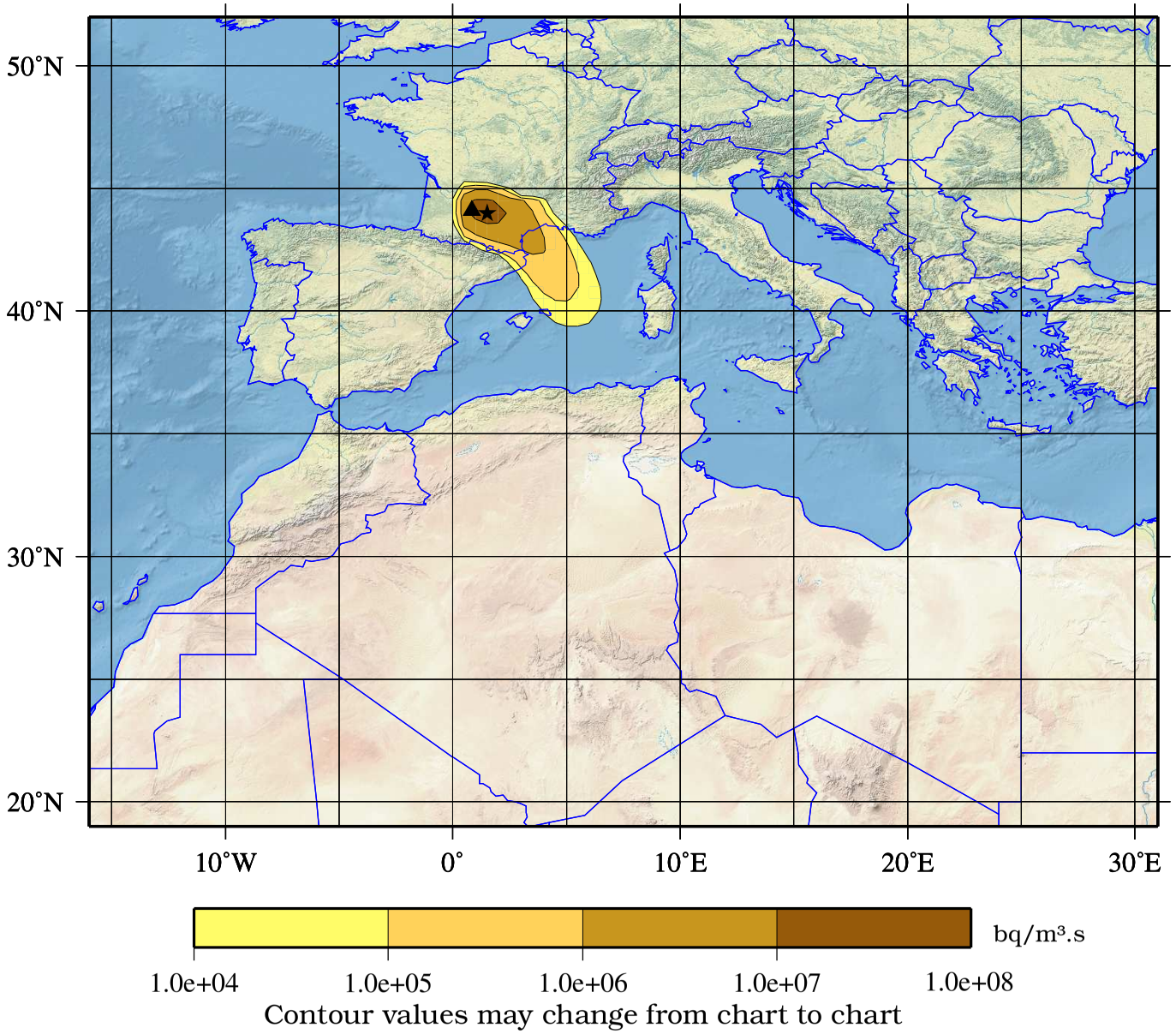
Release Time date : 10 UTC 18 Feb 2020
Release Location in decimal degrees : 44.10688N 0.84553E
Location name (if known) : GOLFECH
Emission duration : 12h30
Emission (per hour) : 7999992000.0000 bq
Substance released : Xe-133
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ARPEGE
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

GOLFECH Exercise 18/02/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 14 hours
valid 19/02/2020 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ARPEGE

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RELEASE DATA

Site : GOLFECH
Emission start : 18/02/2020 10h30 UTC
Release duration : 12h
Lat : 44.10688 N ; 44º6'24" N
Lon : 0.84553 E ; 0º50'43" E
Emission rate : 8.3e+14 bq/h
Base : 0m
Top : 500m
Released pollutant : Xe-133

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
18/02/2020 00UTC

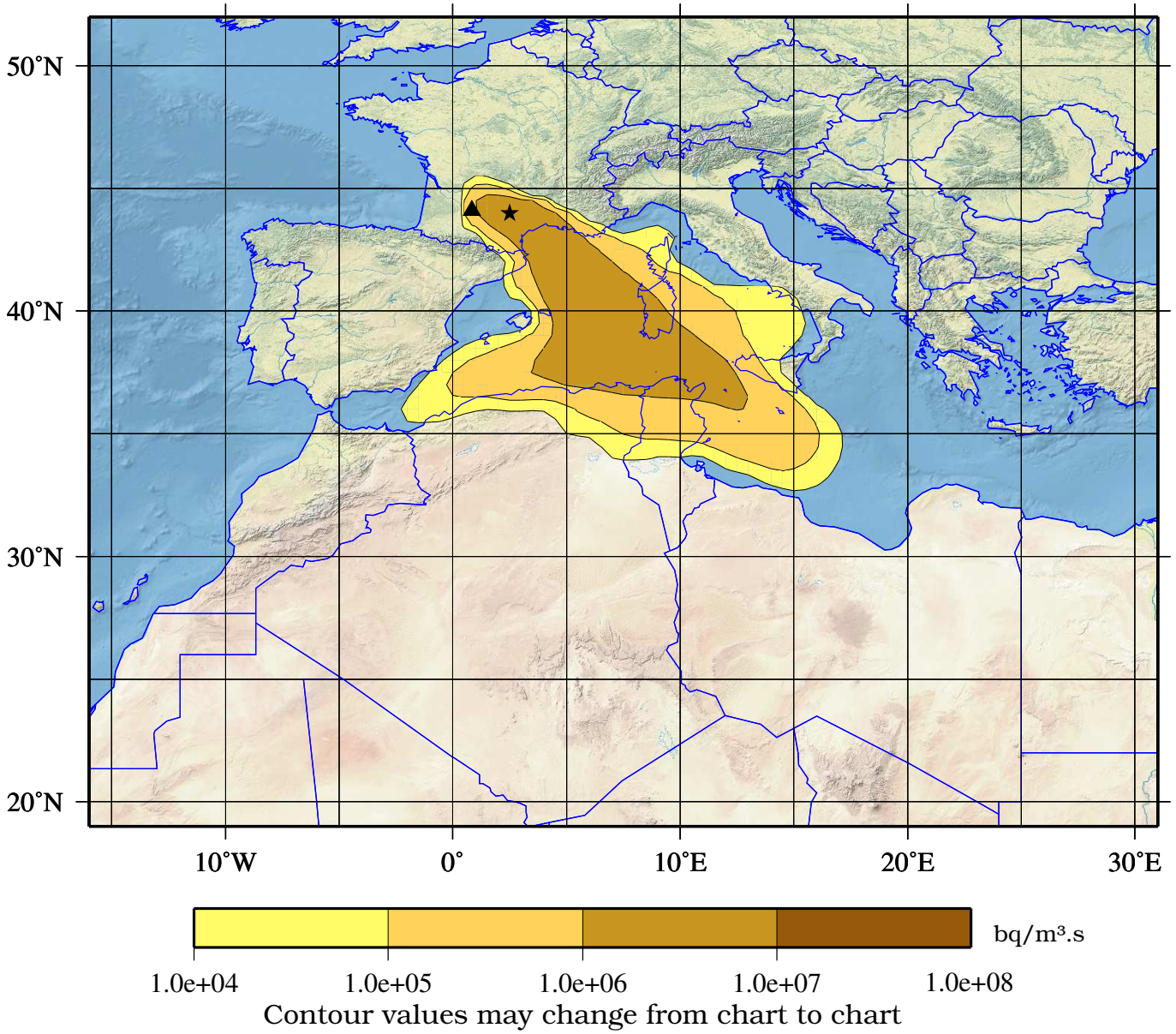
Max value for current step :
20090900 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/02/2020 09:26:00 UTC

GOLFECH Exercise 18/02/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/02/2020 00h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ARPEGE

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Emission rate : 8.3e+14 bq/h
Base : 0m
Top : 500m
Released pollutant : Xe-133

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
18/02/2020 00UTC

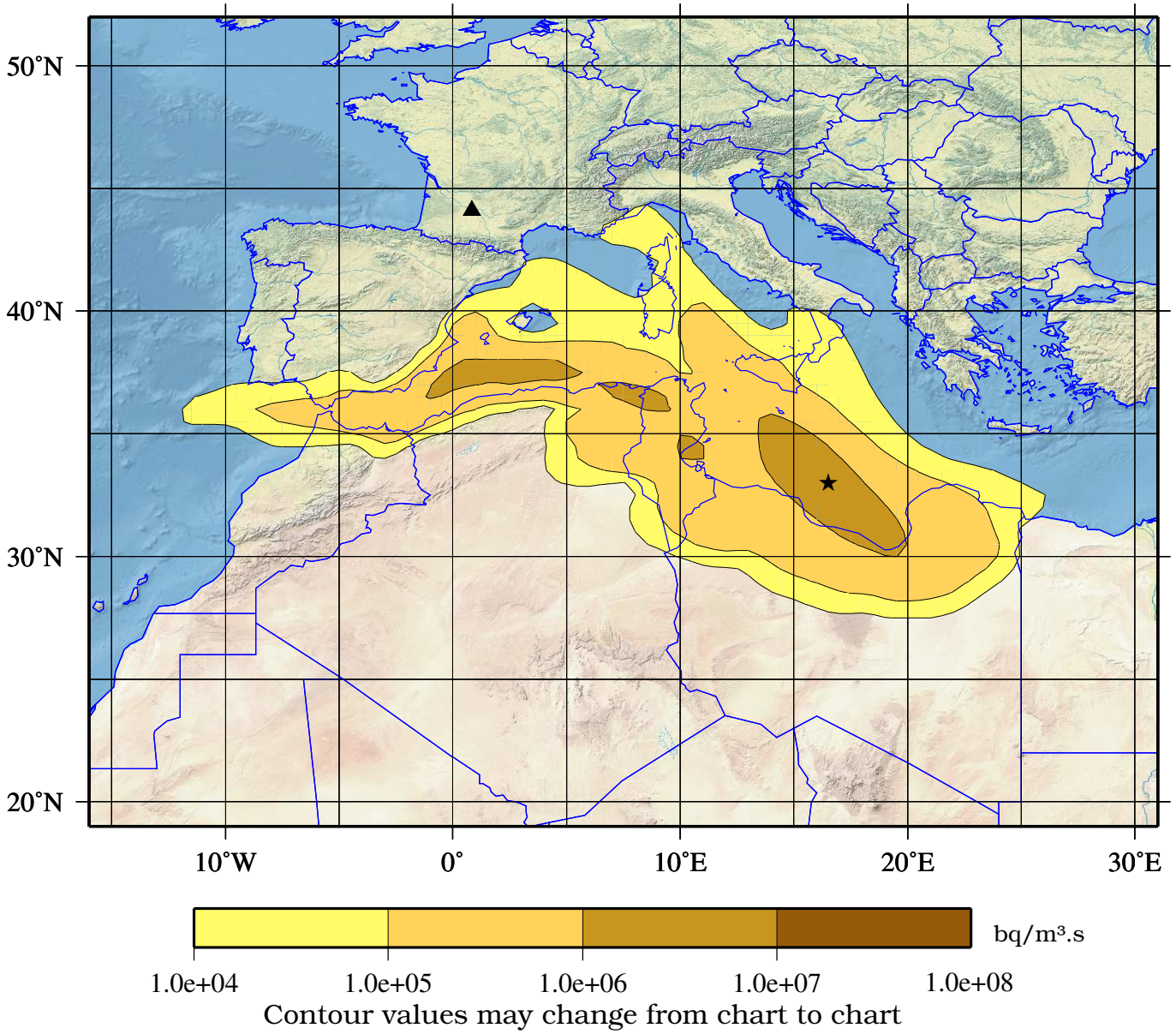
Max value for current step :
6338700 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/02/2020 09:26:00 UTC

GOLFECH Exercise 18/02/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 21/02/2020 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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Base : 0m
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Released pollutant : Xe-133

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/02/2020 00UTC

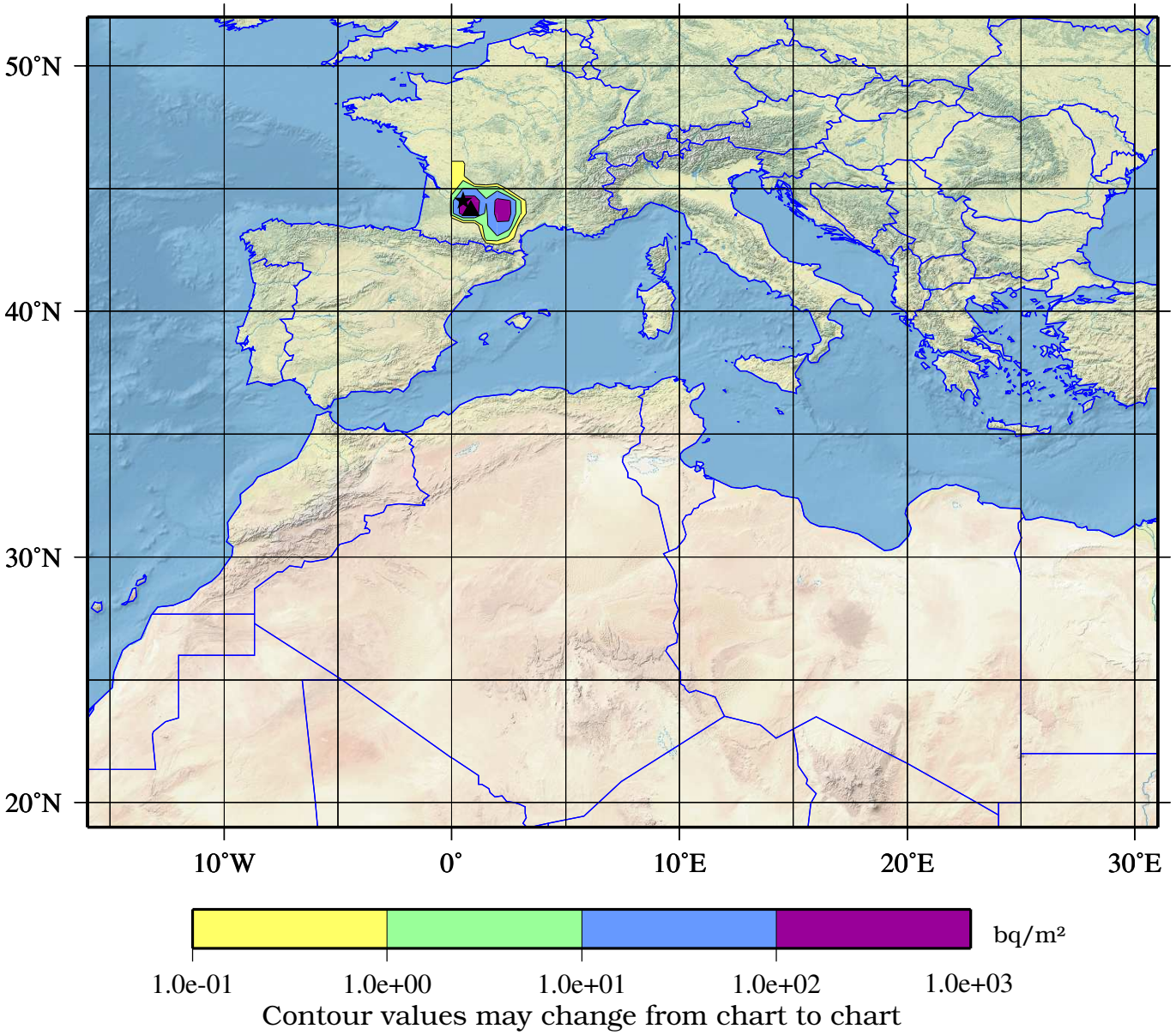
Max value for current step :
1702160 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/02/2020 09:26:00 UTC

GOLFECH Exercise 18/02/2020

Total deposition (bq/m²)
from release start
valid 19/02/2020 00h00 UTC



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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
18/02/2020 00UTC

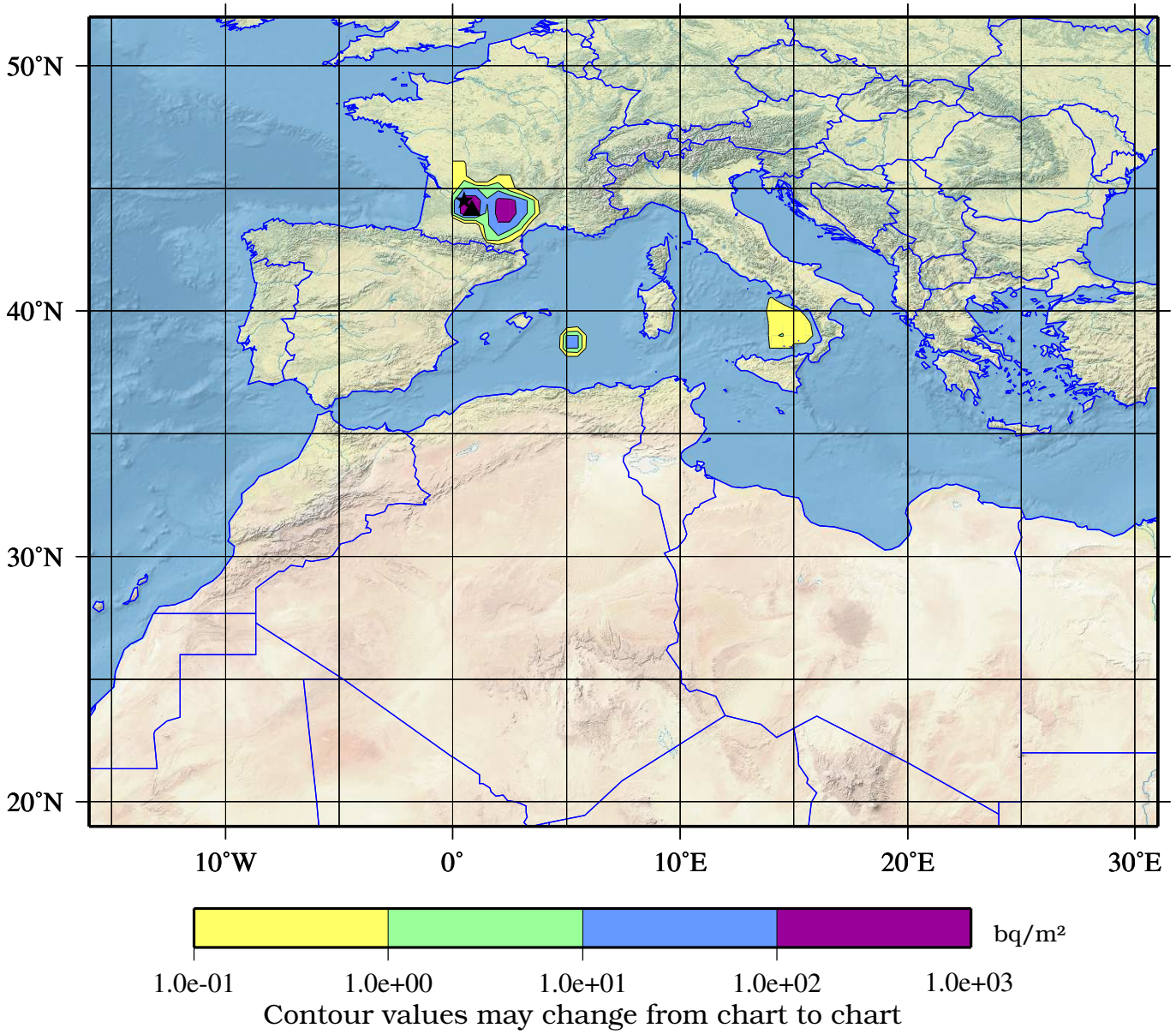
Max value for current step :
481.948 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/02/2020 09:26:00 UTC

GOLFECH Exercise 18/02/2020

Total deposition (bq/m²)
from release start
valid 20/02/2020 00h00 UTC



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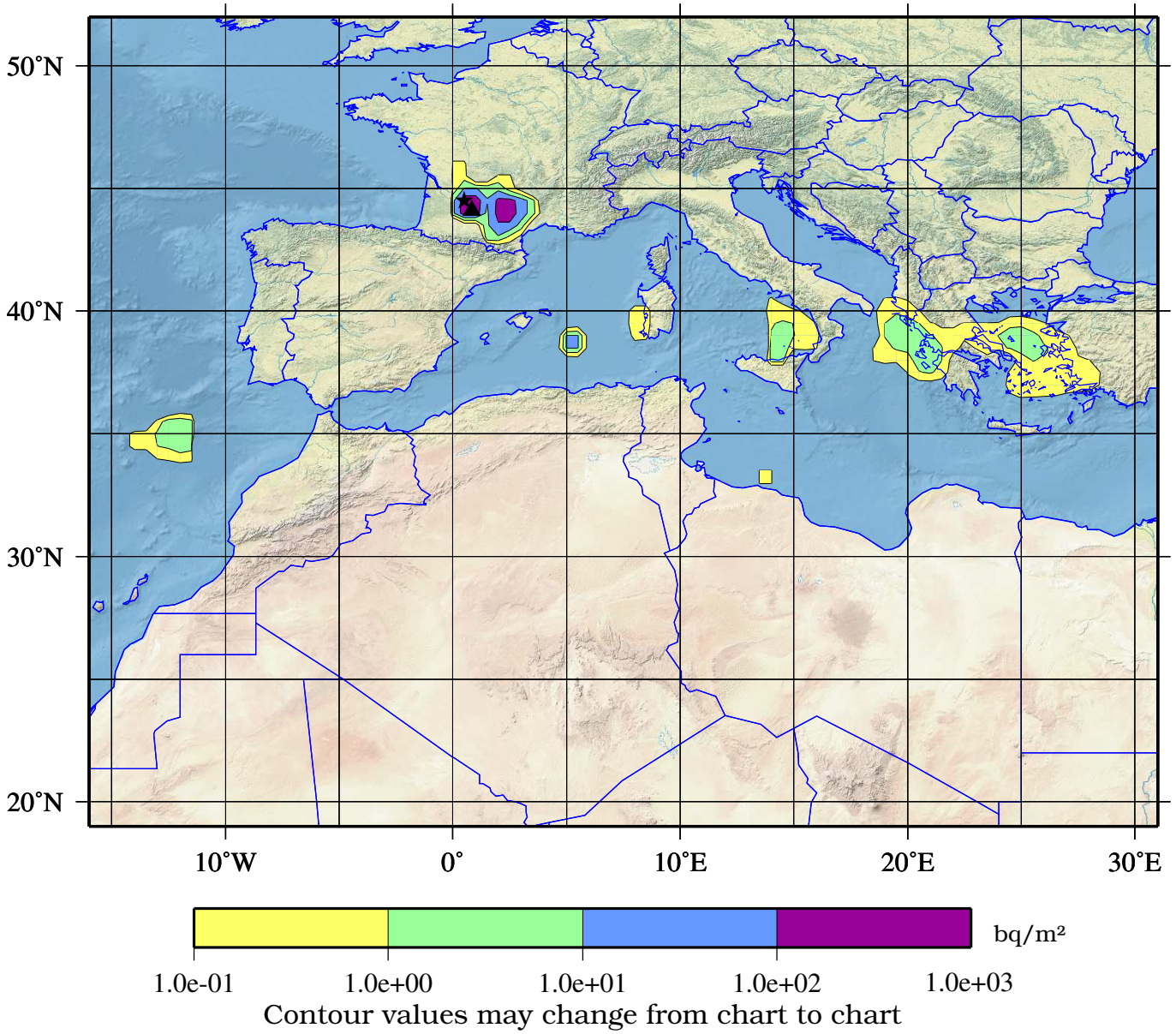

Contour values may change from chart to chart

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