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 : 1330 UTC Date : 16 Aug 2016

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

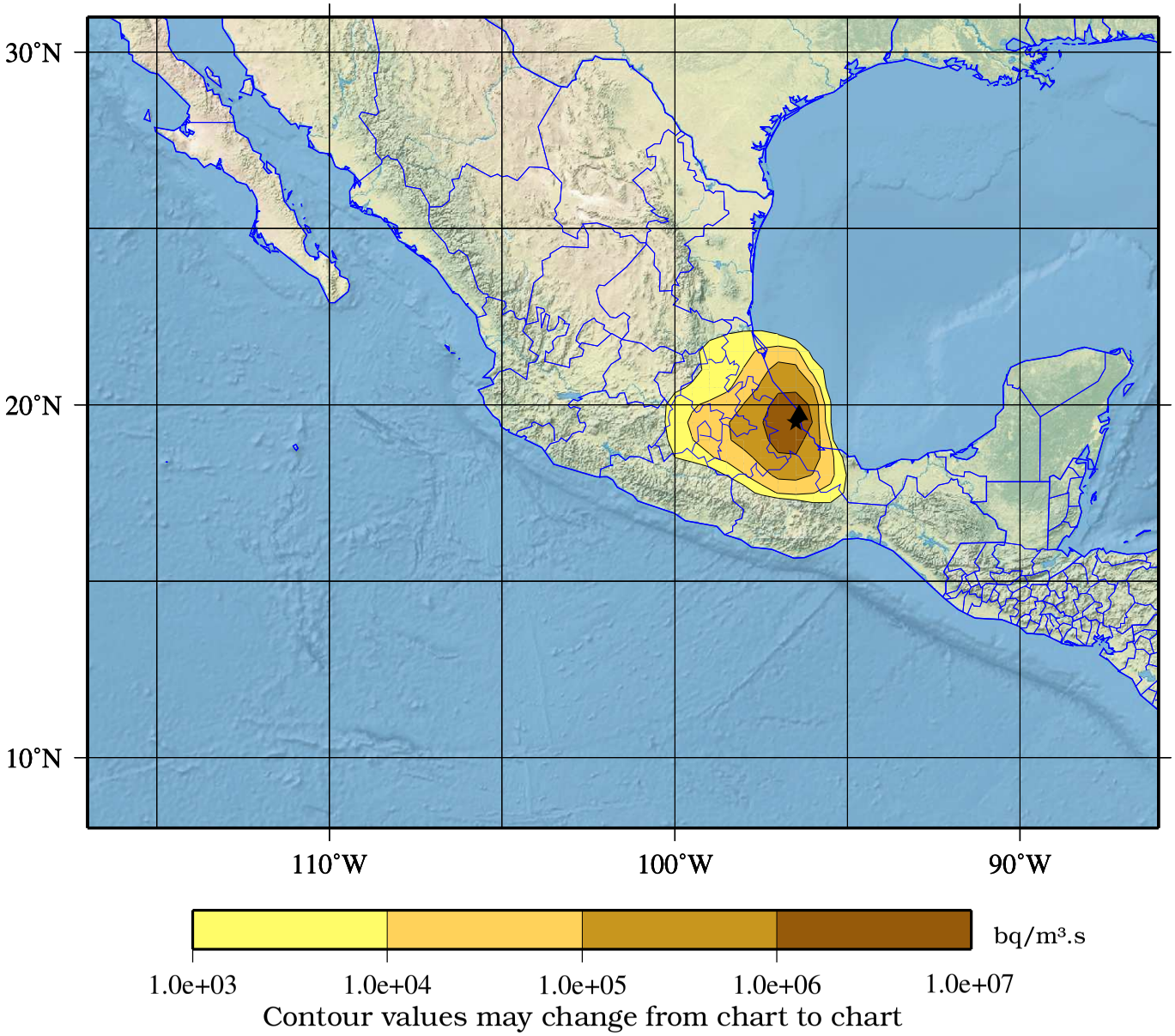
Release Time date : 16 UTC 16 Aug 2016
Release Location in decimal degrees : 19.7192N 96.40589W
Location name (if known) : MEXICO_LAGUNA_VERDE
Emission duration : 05h00
Emission (per hour) : 17060004000.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 20 - 500 m (AGL)
Meteorological 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

MEXICO LAGUNA VERDE Exercise 16/08/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 20 hours
valid 17/08/2016 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : MEXICO LAGUNA VERDE
Emission start : 16/08/2016 16h00 UTC
Release duration : 05h00
Lat : 19.7192 N ; 19º43'9" N
Lon : 96.4059 W ; 96º24'21" W
Emission rate : 1.7e+14 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/08/2016 00UTC

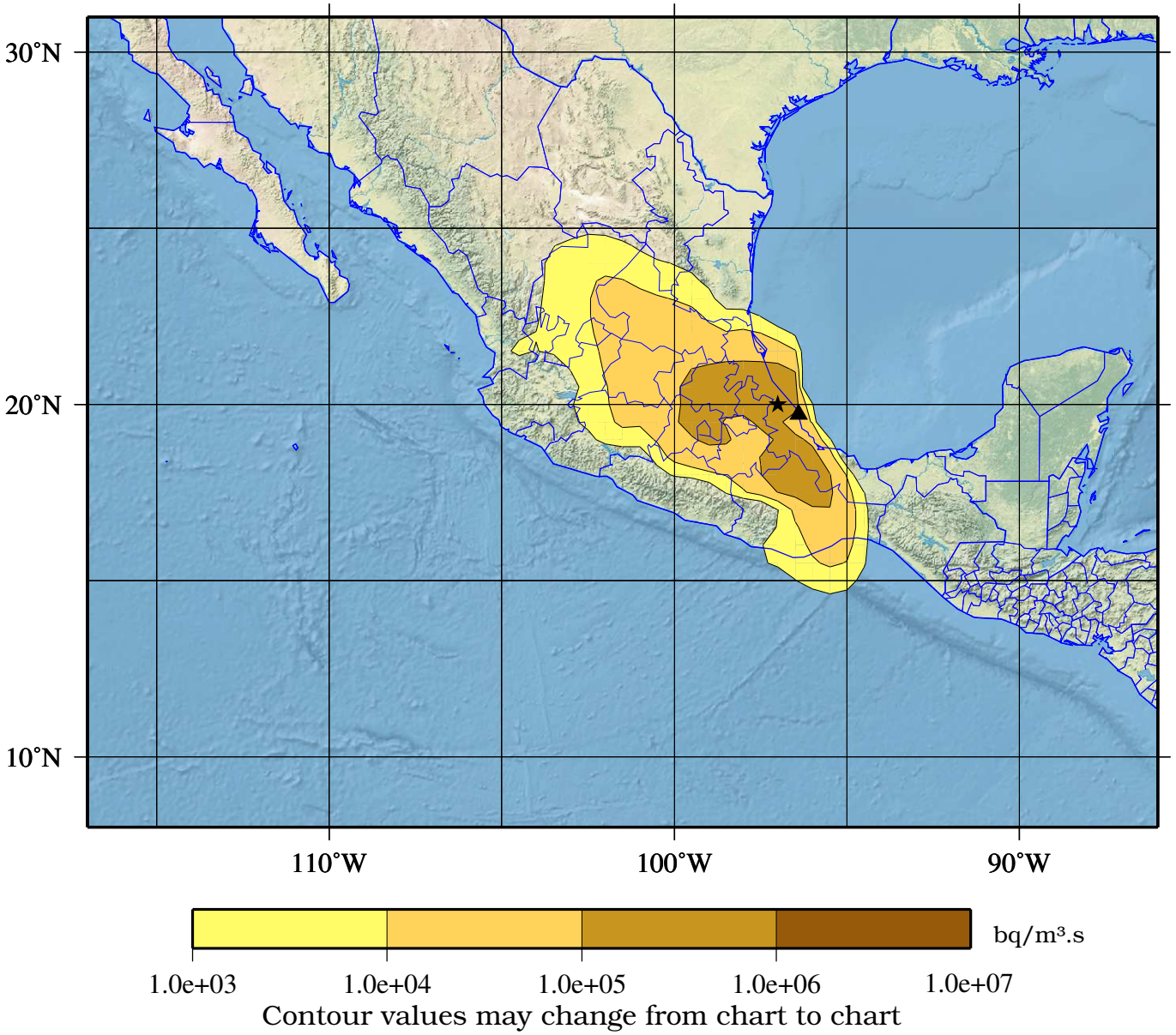
Max value for current step :
2766940 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/08/2016 13:20:26 UTC

MEXICO LAGUNA VERDE Exercise 16/08/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 18/08/2016 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Lon : 96.4059 W ; 96º24'21" W
Emission rate : 1.7e+14 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/08/2016 00UTC

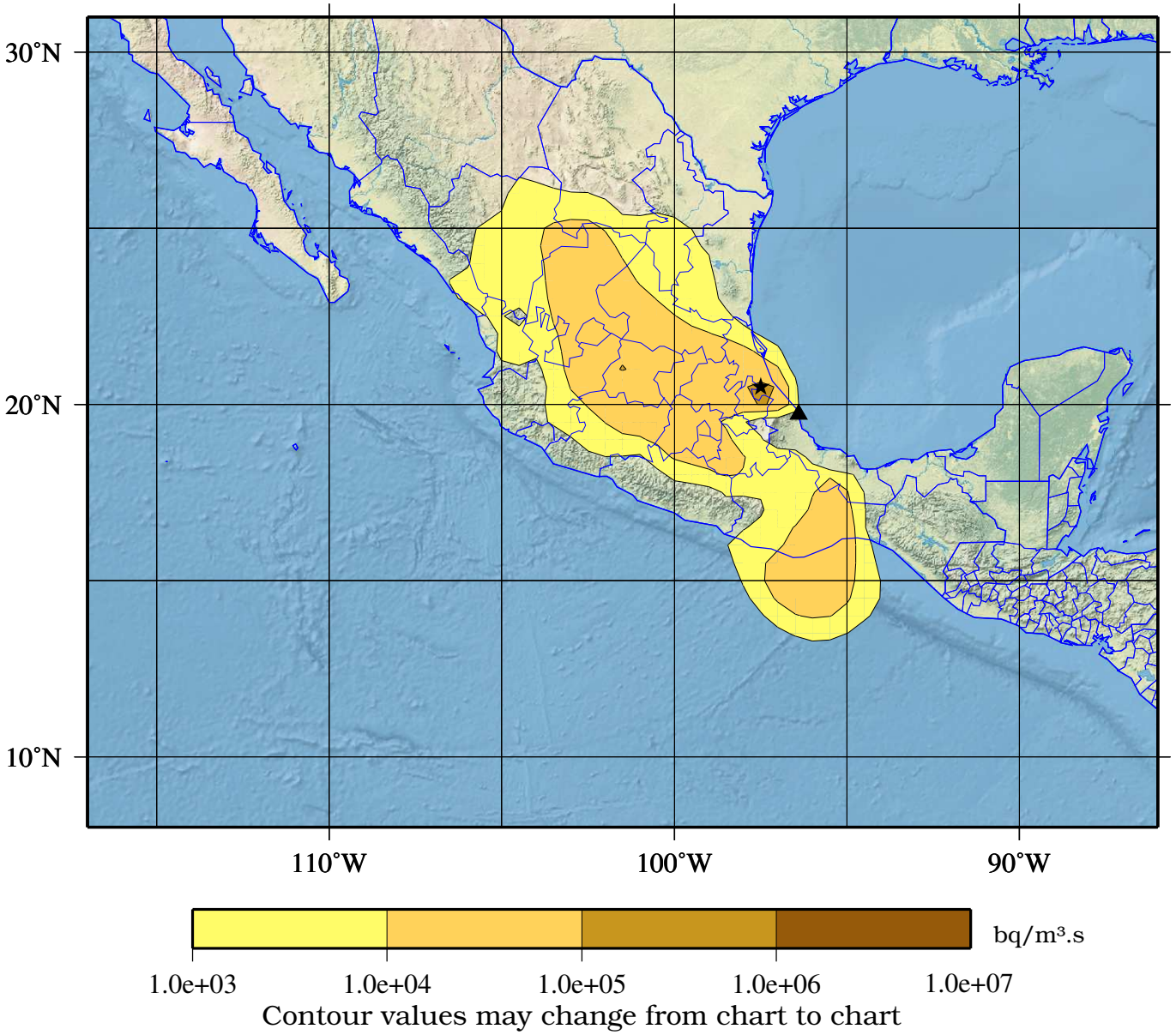
Max value for current step :
665273 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/08/2016 13:20:26 UTC

MEXICO LAGUNA VERDE Exercise 16/08/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/08/2016 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Base : 20m
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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/08/2016 00UTC

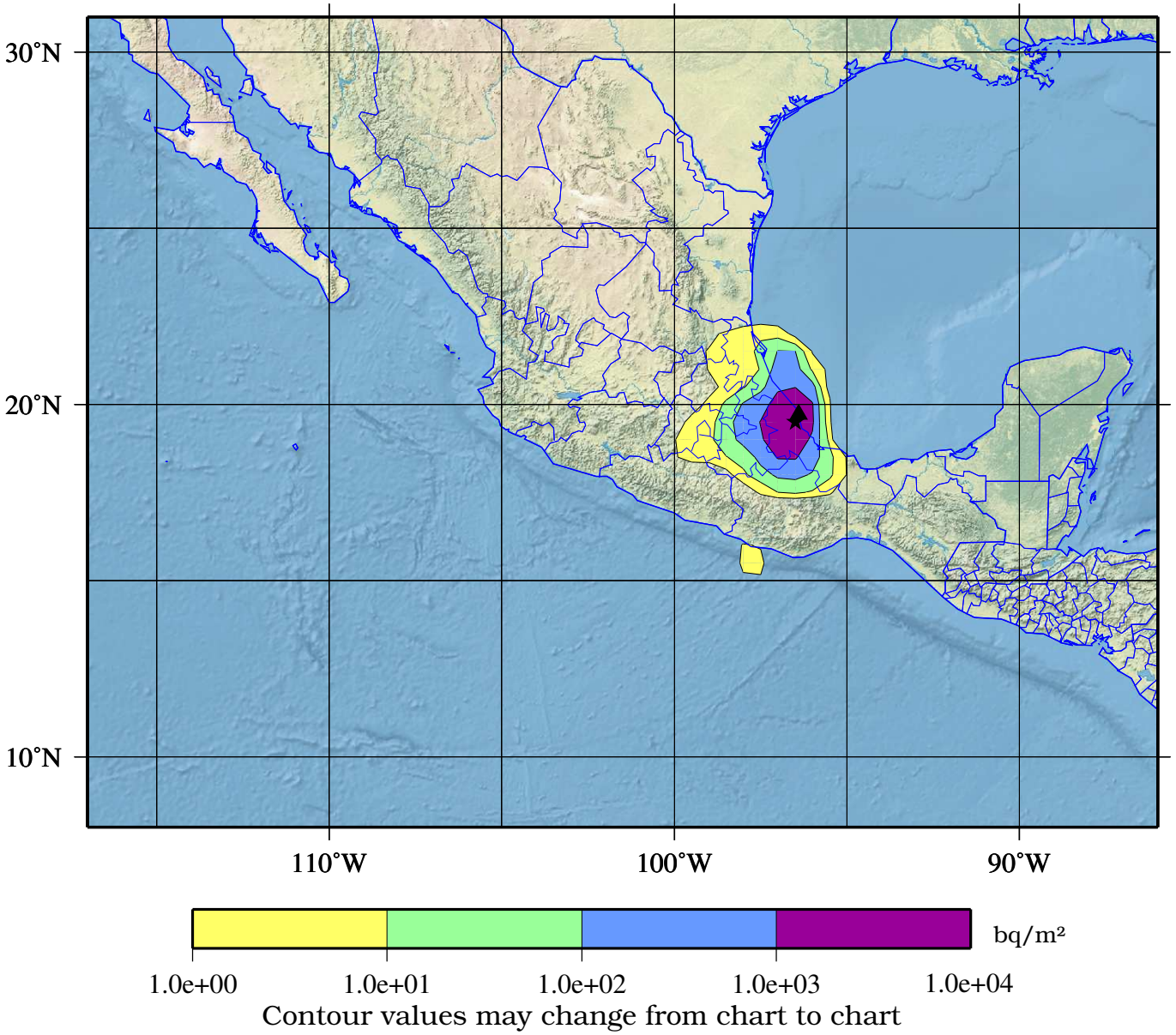
Max value for current step :
145546 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/08/2016 13:20:26 UTC

MEXICO LAGUNA VERDE Exercise 16/08/2016

Total deposition (bq/m²)
from release start
valid 17/08/2016 12h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/08/2016 00UTC

Max value for current step :
3788.96 bq/m²

Max position ★
Source position ▲

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TOULOUSE RSMC
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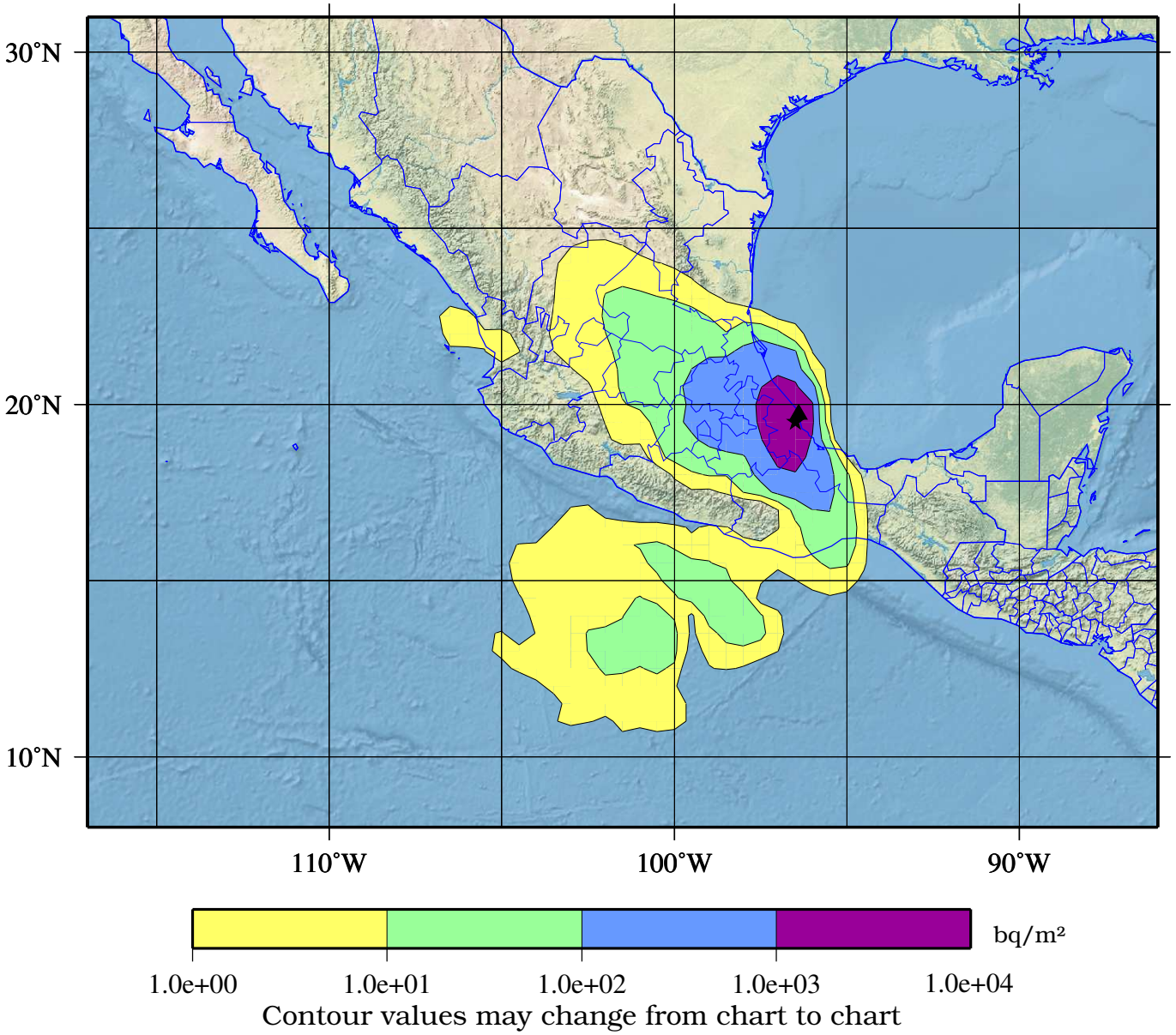
MEXICO LAGUNA VERDE Exercise 16/08/2016

Total deposition (bq/m²)
from release start
valid 18/08/2016 12h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/08/2016 00UTC

Max value for current step :
3835.71 bq/m²

Max position ★
Source position ▲

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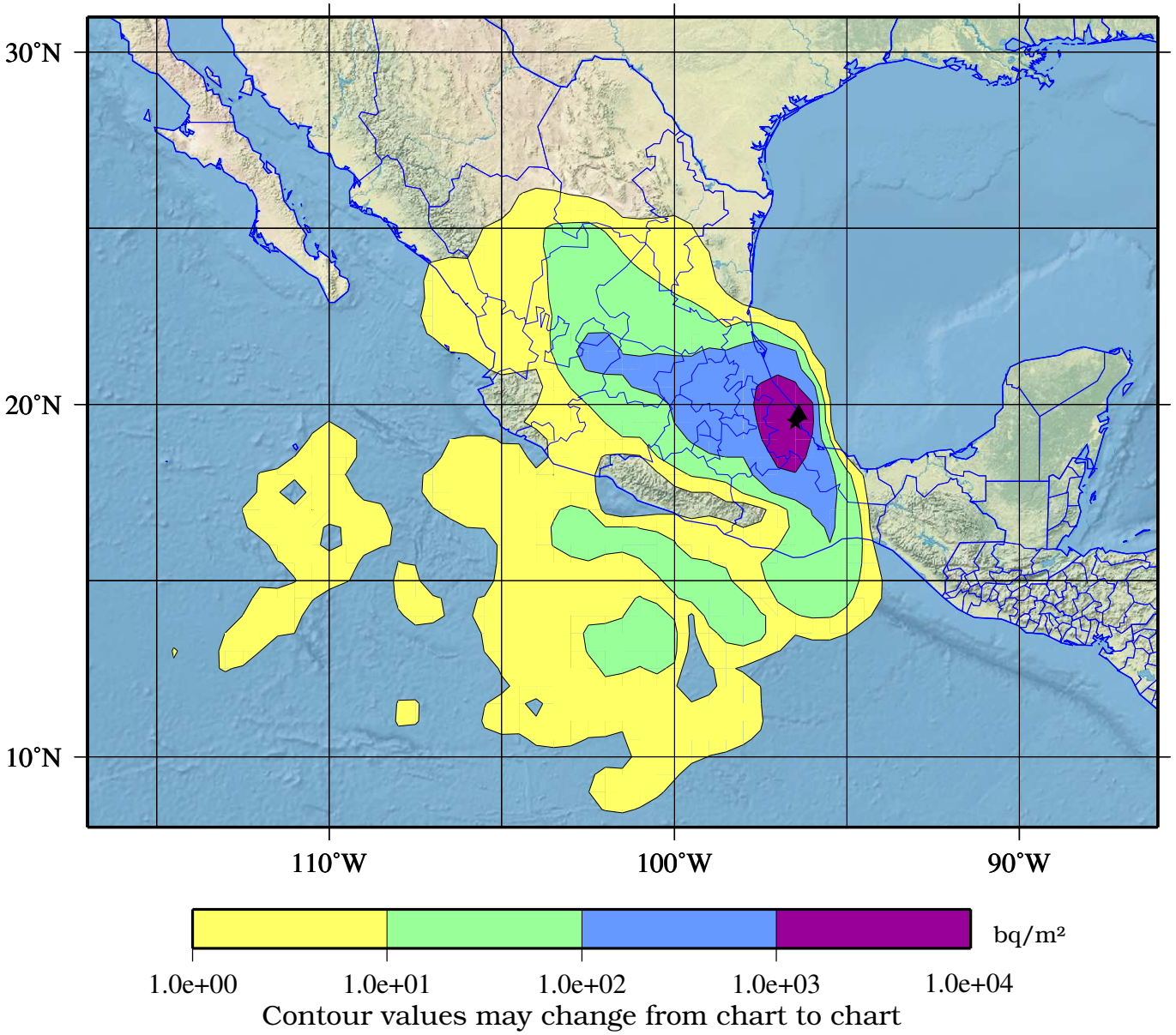
TOULOUSE RSMC
Issued 16/08/2016 13:20:26 UTC

MEXICO LAGUNA VERDE Exercise 16/08/2016

Total deposition (bq/m²)
from release start
valid 19/08/2016 12h00 UTC



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Source position ▲

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