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 : 0712 UTC Date : 21 Jun 2017

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

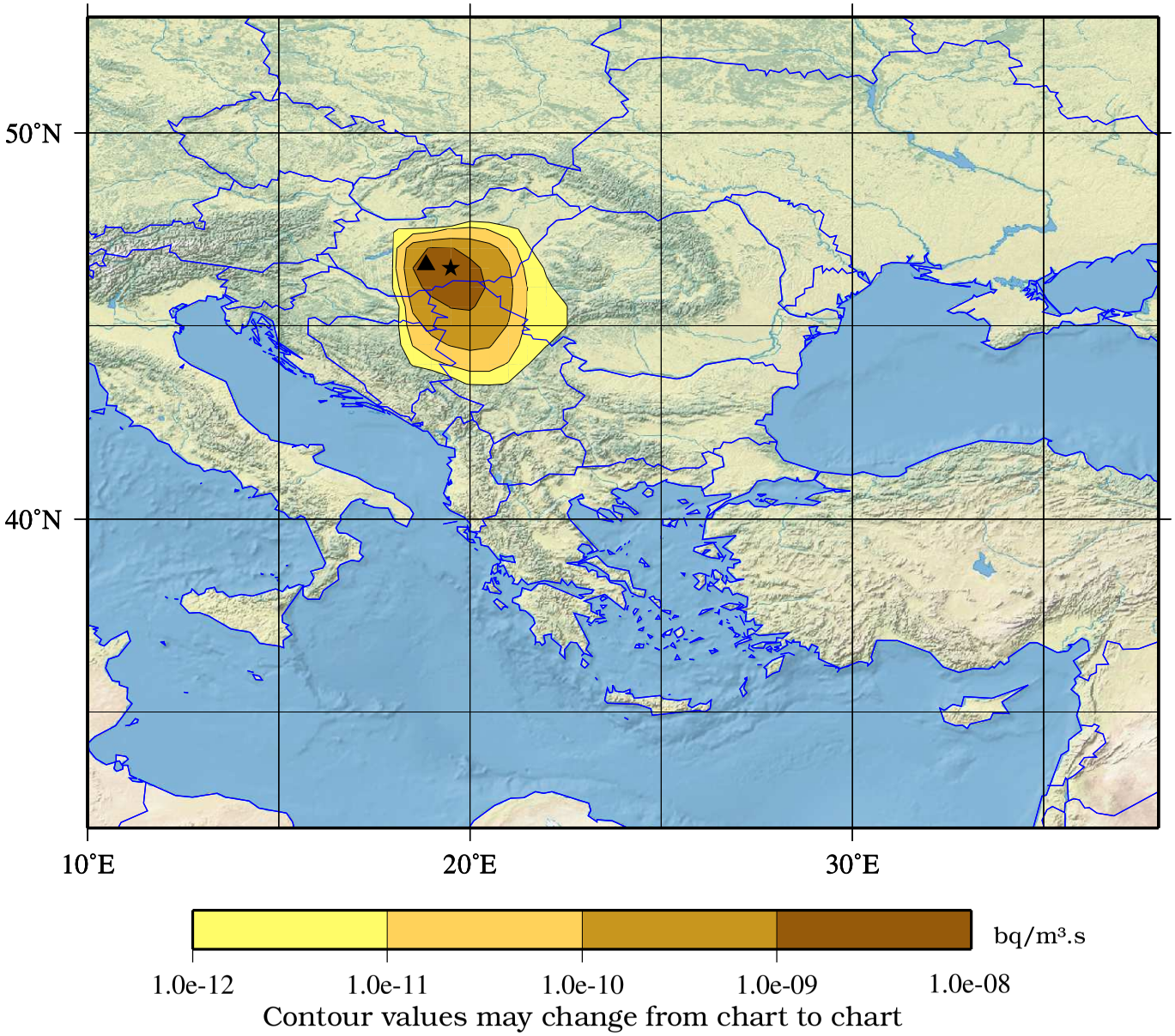
Release Time date : 06 UTC 21 Jun 2017
Release Location in decimal degrees : 46.57401N 18.85362E
Location name (if known) : PAKS
Emission duration : 06h00
Emission (per hour) : 0.1667 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ECMWF
Dispersion 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

PAKS Exercise 21/06/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 18 hours
valid 22/06/2017 00h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : PAKS
Emission start : 21/06/2017 06h00 UTC
Release duration : 06h00
Lat : 46.57401 N ; 46º34'26" N
Lon : 18.85362 E ; 18º51'13" E
Emission rate : 1.7e-01 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/06/2017 12UTC

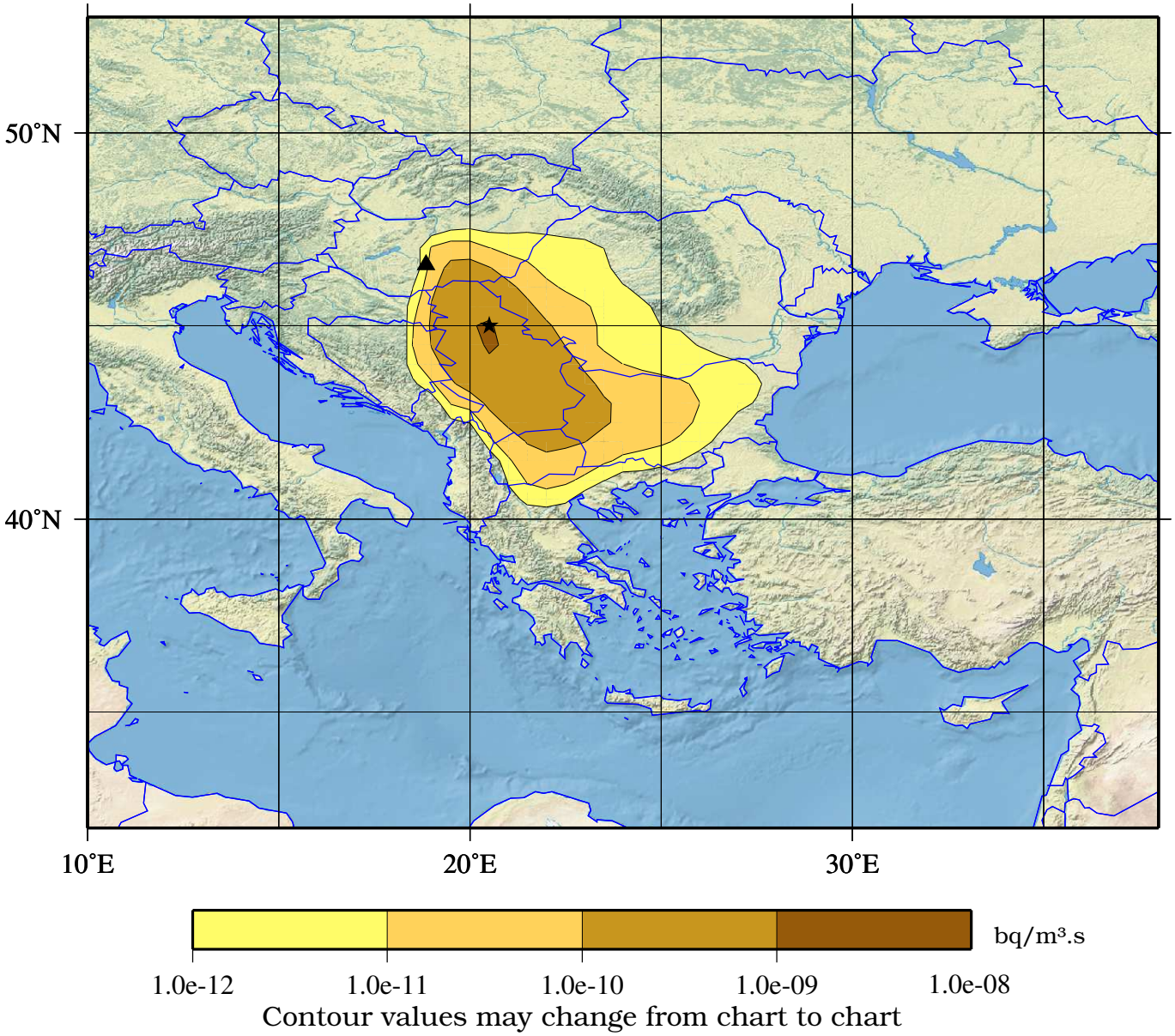
Max value for current step :
2.50035e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/06/2017 07:01:33 UTC

PAKS Exercise 21/06/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 23/06/2017 00h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : PAKS
Emission start : 21/06/2017 06h00 UTC
Release duration : 06h00
Lat : 46.57401 N ; 46º34'26" N
Lon : 18.85362 E ; 18º51'13" E
Emission rate : 1.7e-01 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/06/2017 12UTC

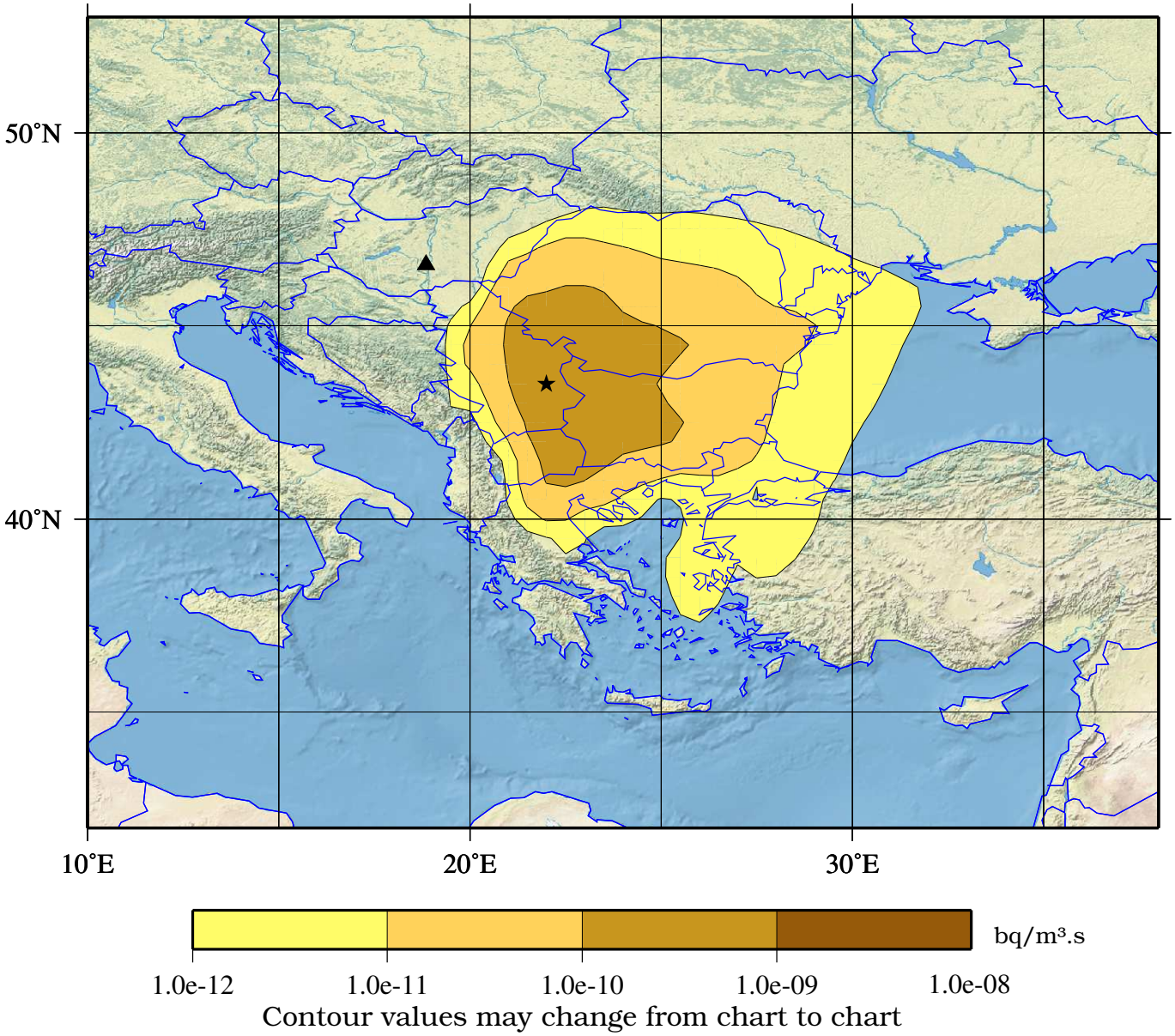
Max value for current step :
1.08893e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/06/2017 07:01:33 UTC

PAKS Exercise 21/06/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 24/06/2017 00h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

Results based on default initial values

RELEASE DATA
Site : PAKS
Emission start : 21/06/2017 06h00 UTC
Release duration : 06h00
Lat : 46.57401 N ; 46º34'26" N
Lon : 18.85362 E ; 18º51'13" E
Emission rate : 1.7e-01 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/06/2017 12UTC

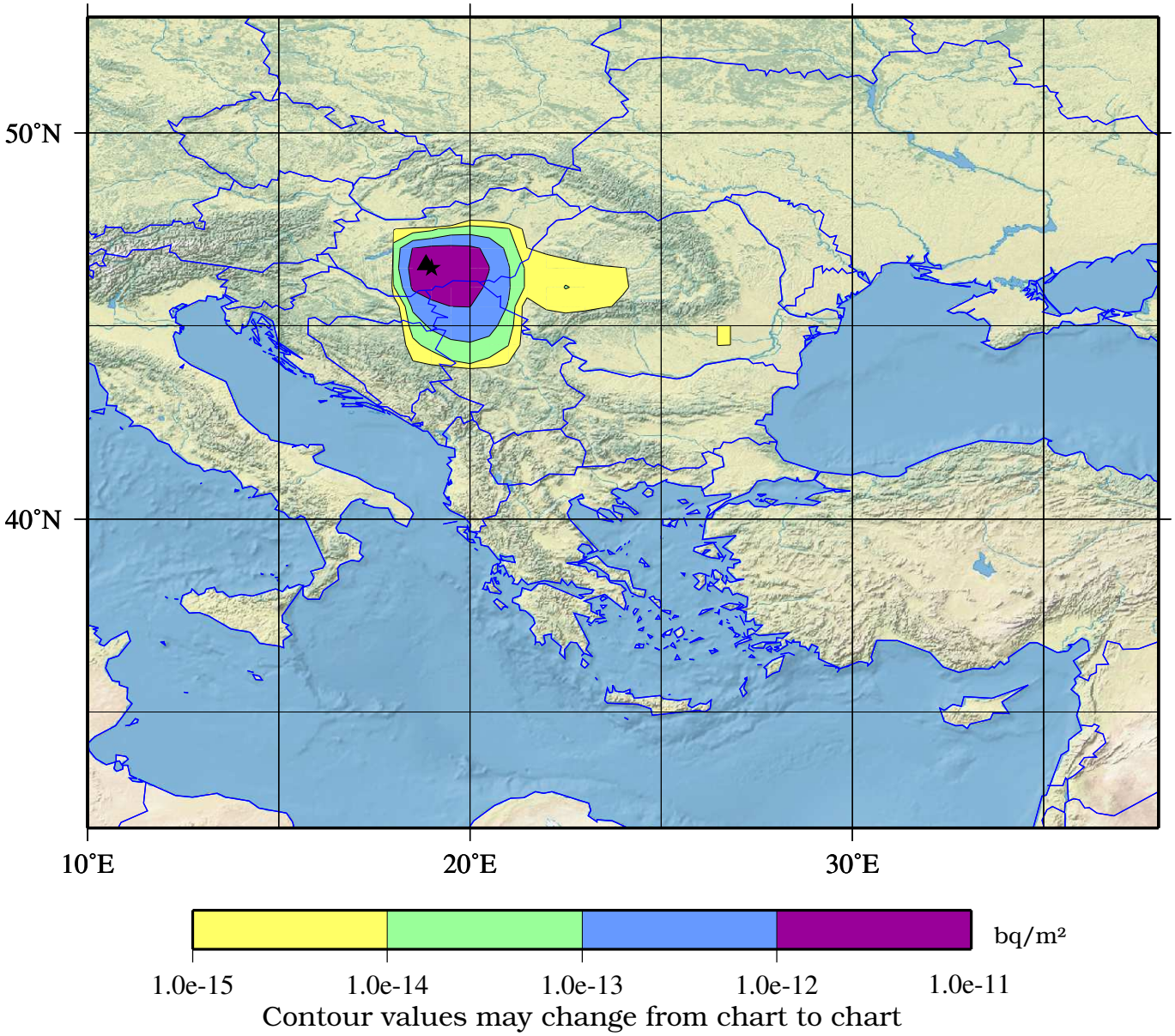
Max value for current step :
3.04789e-10 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/06/2017 07:01:33 UTC

PAKS Exercise 21/06/2017

Total deposition (bq/m²)
from release start
valid 22/06/2017 00h00 UTC



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Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/06/2017 12UTC

Max value for current step :
4.41709e-12 bq/m²

Max position ★
Source position ▲

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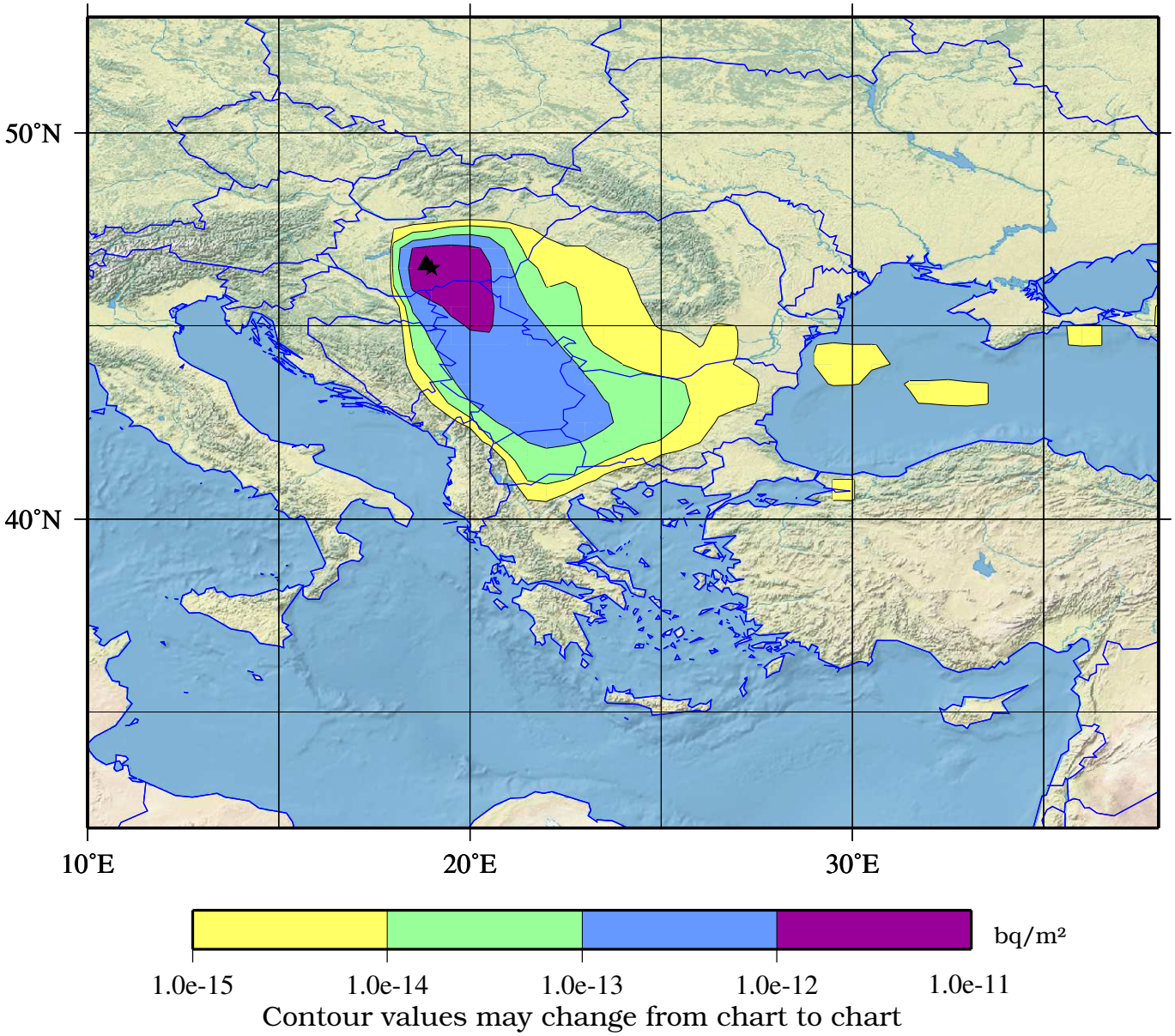
TOULOUSE RSMC
Issued 21/06/2017 07:01:33 UTC

PAKS Exercise 21/06/2017

Total deposition (bq/m²)
from release start
valid 23/06/2017 00h00 UTC



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Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/06/2017 12UTC

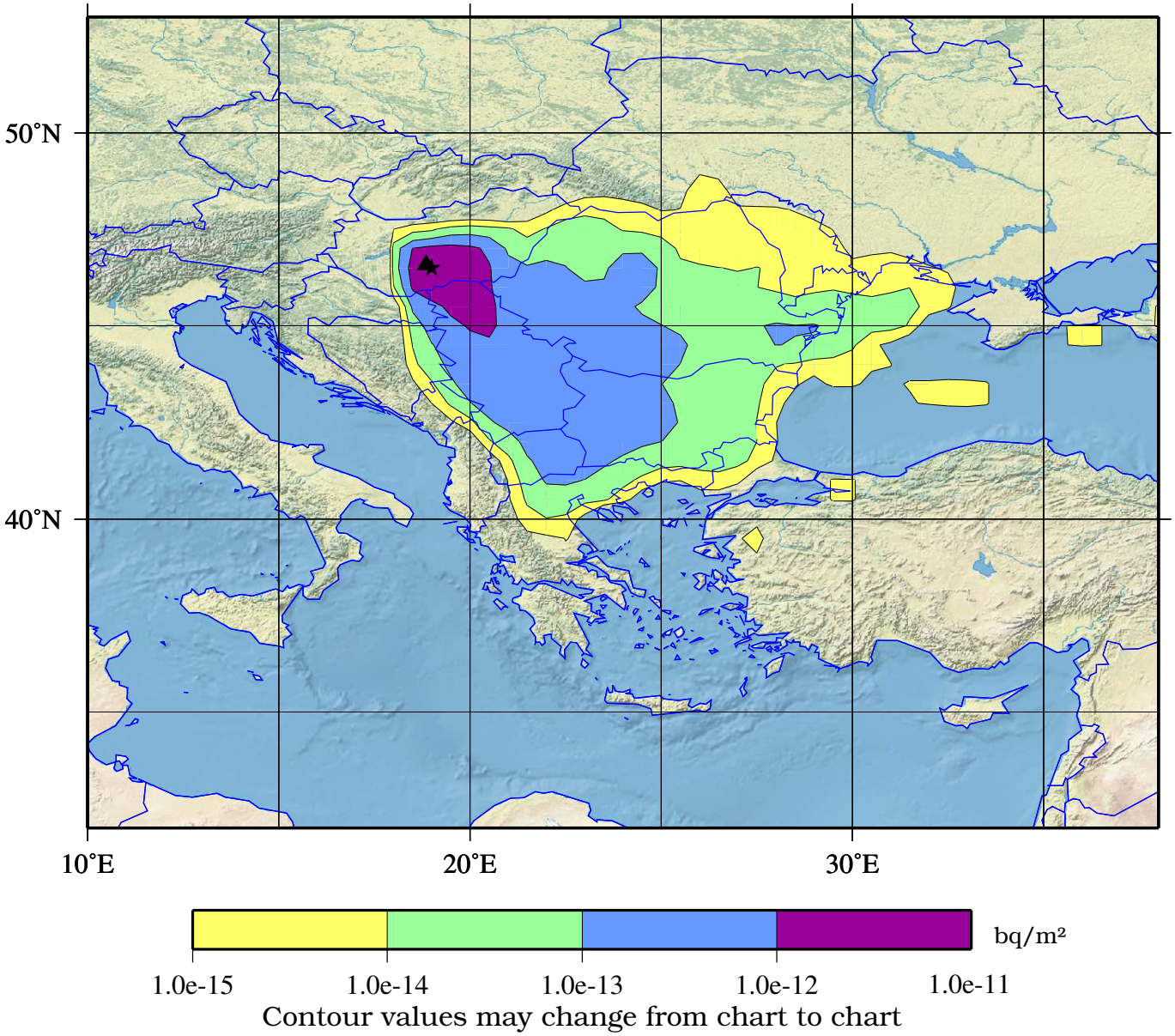
Max value for current step :
4.45896e-12 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/06/2017 07:01:33 UTC

PAKS Exercise 21/06/2017

Total deposition (bq/m²)
from release start
valid 24/06/2017 00h00 UTC



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