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 : 1004 UTC Date : 18 Aug 2020

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

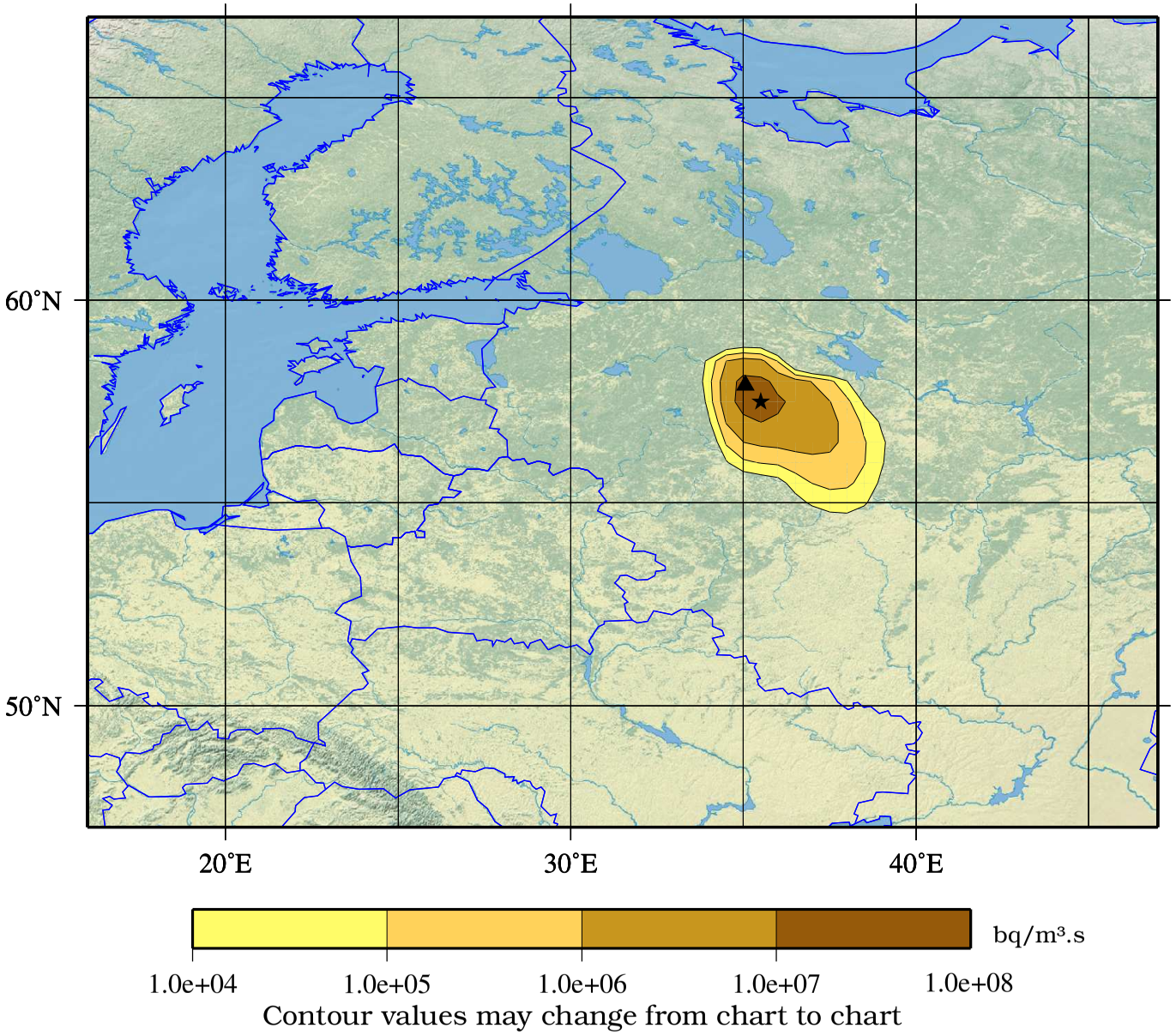
Release Time date : 07 UTC 18 Aug 2020
Release Location in decimal degrees : 57.90419N 35.05625E
Location name (if known) : Kalinin_20200818
Emission duration : 12h00
Emission (per hour) : 7499988000.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : 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

Kalinin 20200818 Exercise 18/08/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 17 hours
valid 19/08/2020 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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RELEASE DATA
Site : Kalinin 20200818
Emission start : 18/08/2020 07h30 UTC
Release duration : 12h
Lat : 57.90419 N ; 57º54'15" N
Lon : 35.05625 E ; 35º3'22" E
Emission rate : 7.5e+14 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/08/2020 00UTC

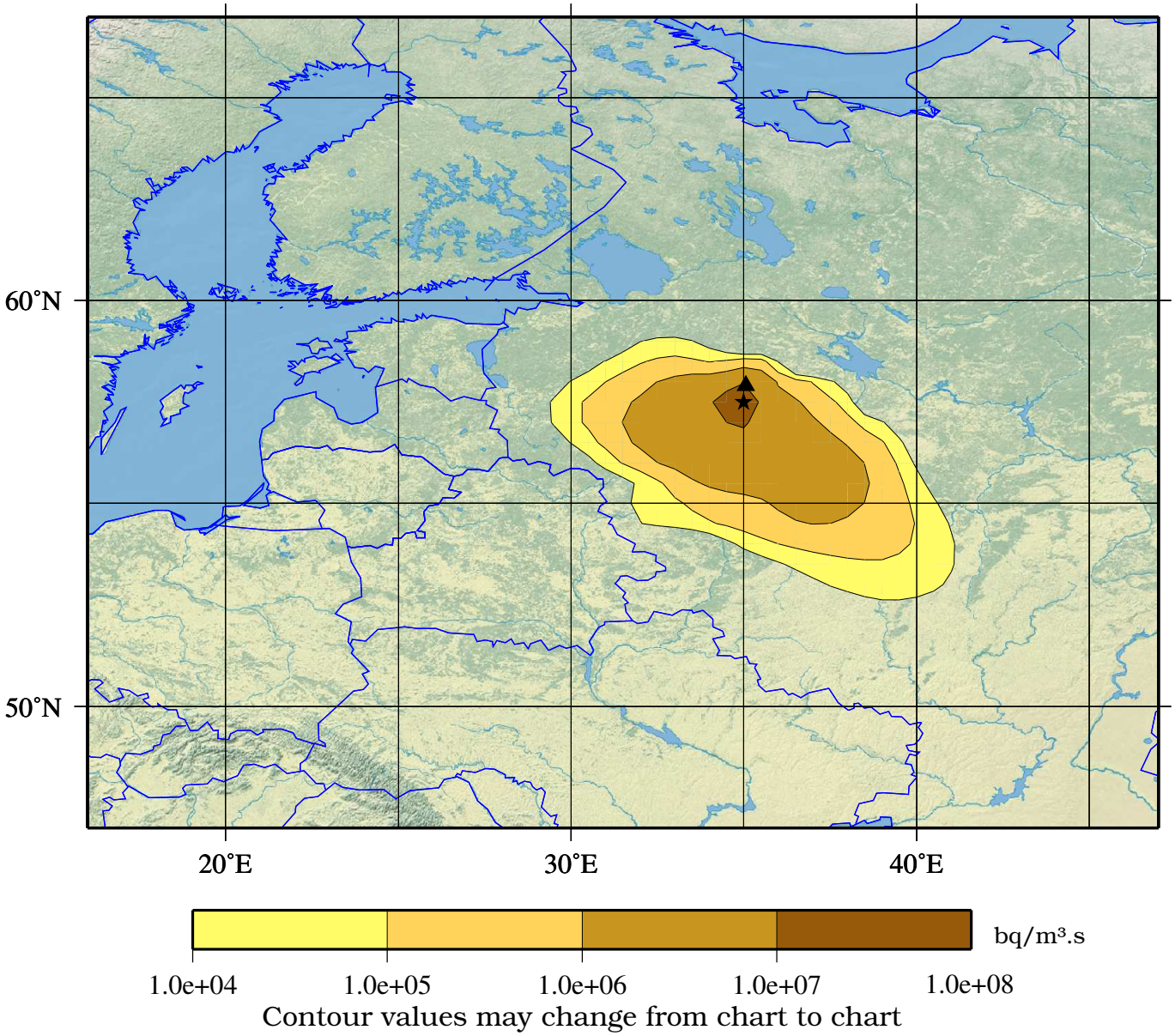
Max value for current step :
22646400 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/08/2020 09:58:28 UTC

Kalinin 20200818 Exercise 18/08/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/08/2020 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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Emission rate : 7.5e+14 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/08/2020 00UTC

Max value for current step :
16143600 bq/m³.s

Max position ★
Source position ▲

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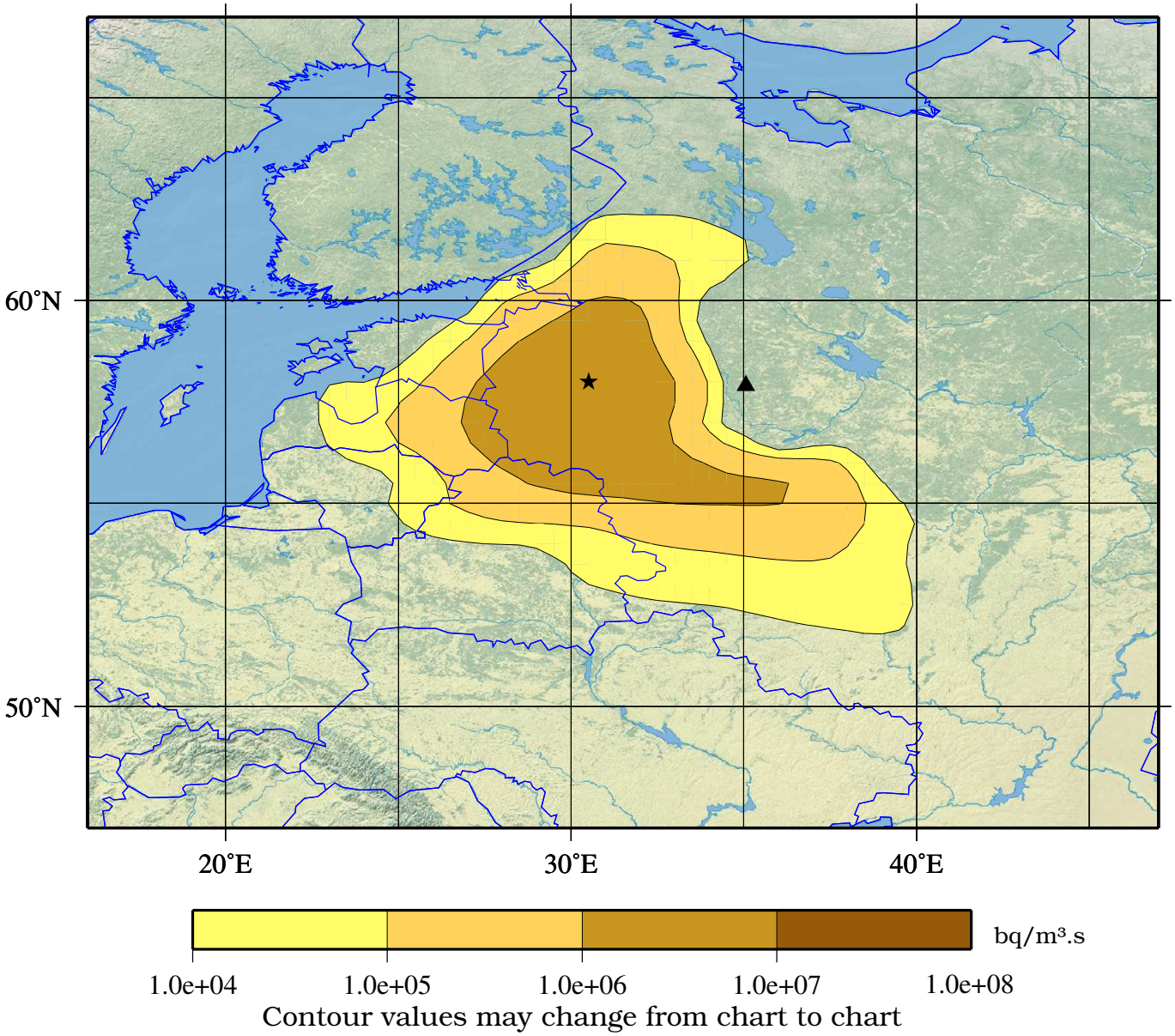
TOULOUSE RSMC
Issued 18/08/2020 09:58:28 UTC

Kalinin 20200818 Exercise 18/08/2020

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 21/08/2020 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ARPEGE

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Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/08/2020 00UTC

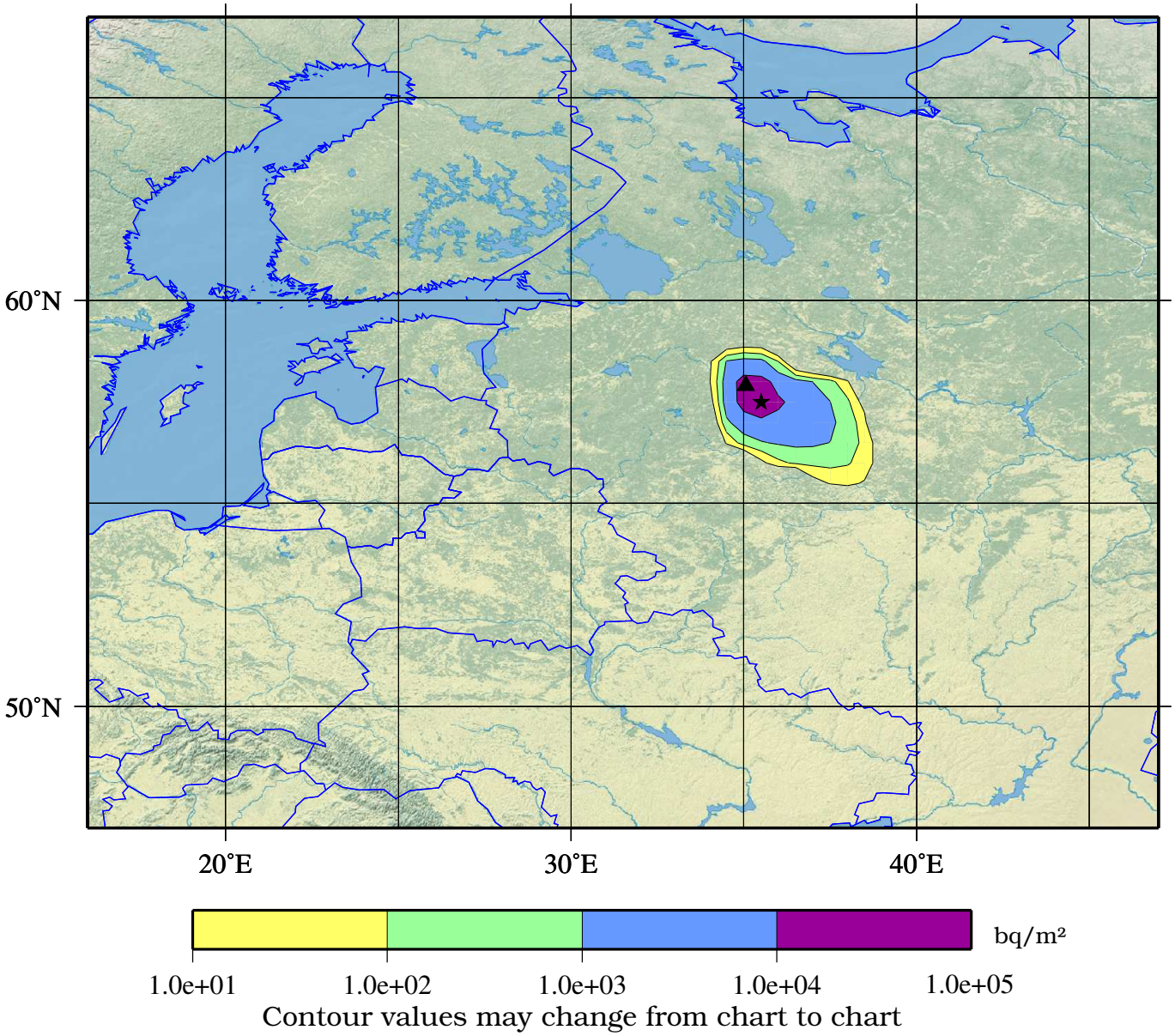
Max value for current step :
3523710 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/08/2020 09:58:28 UTC

Kalinin 20200818 Exercise 18/08/2020

Total deposition (bq/m²)
from release start
valid 19/08/2020 00h00 UTC



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Meteo model : ARPEGE

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MODEL DATA

Grid resolution : 0.5º
Init for meteo data
18/08/2020 00UTC

Max value for current step :
21978.9 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
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Kalinin 20200818 Exercise 18/08/2020

Total deposition (bq/m²)
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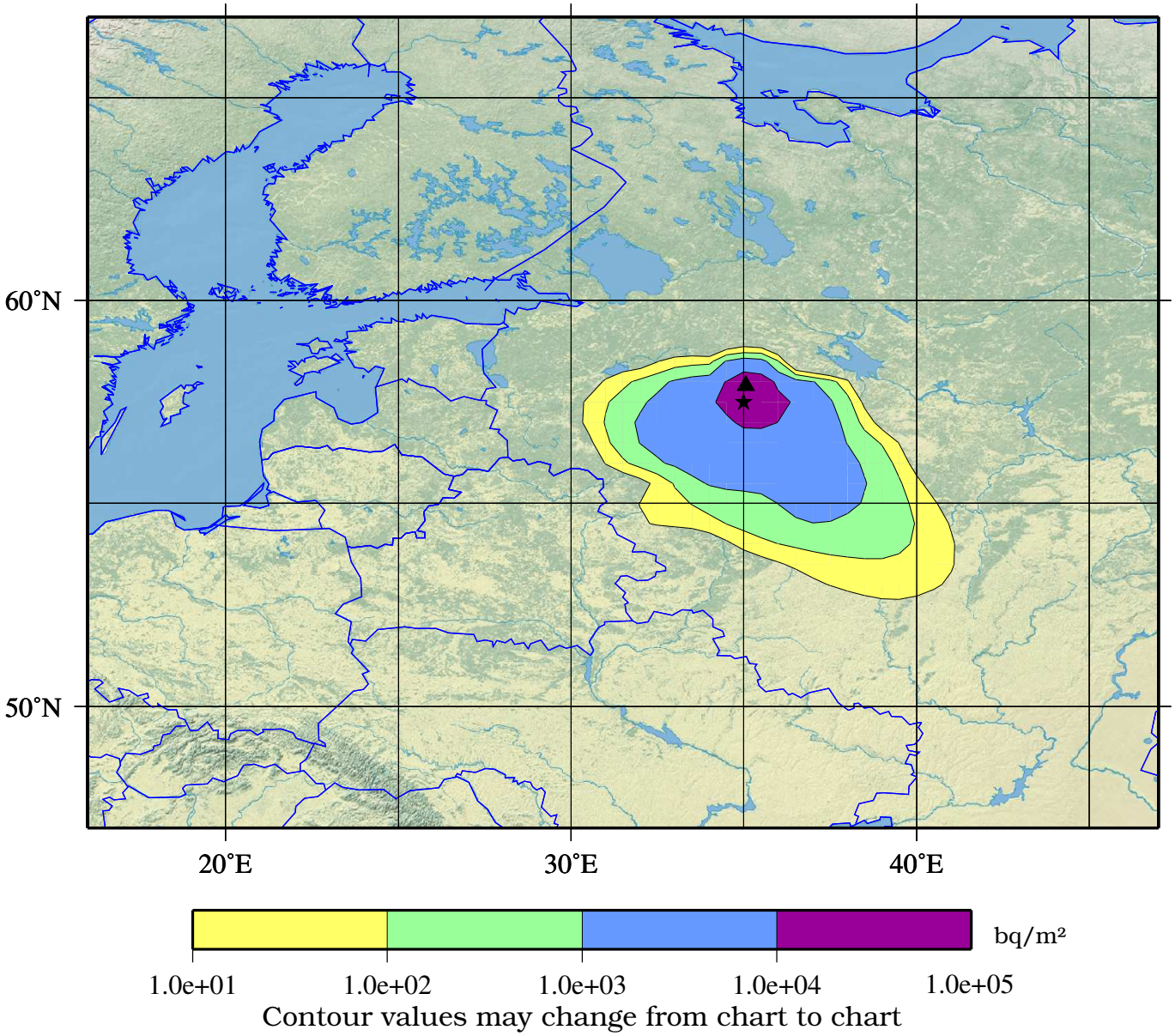
valid 20/08/2020 00h00 UTC



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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
18/08/2020 00UTC

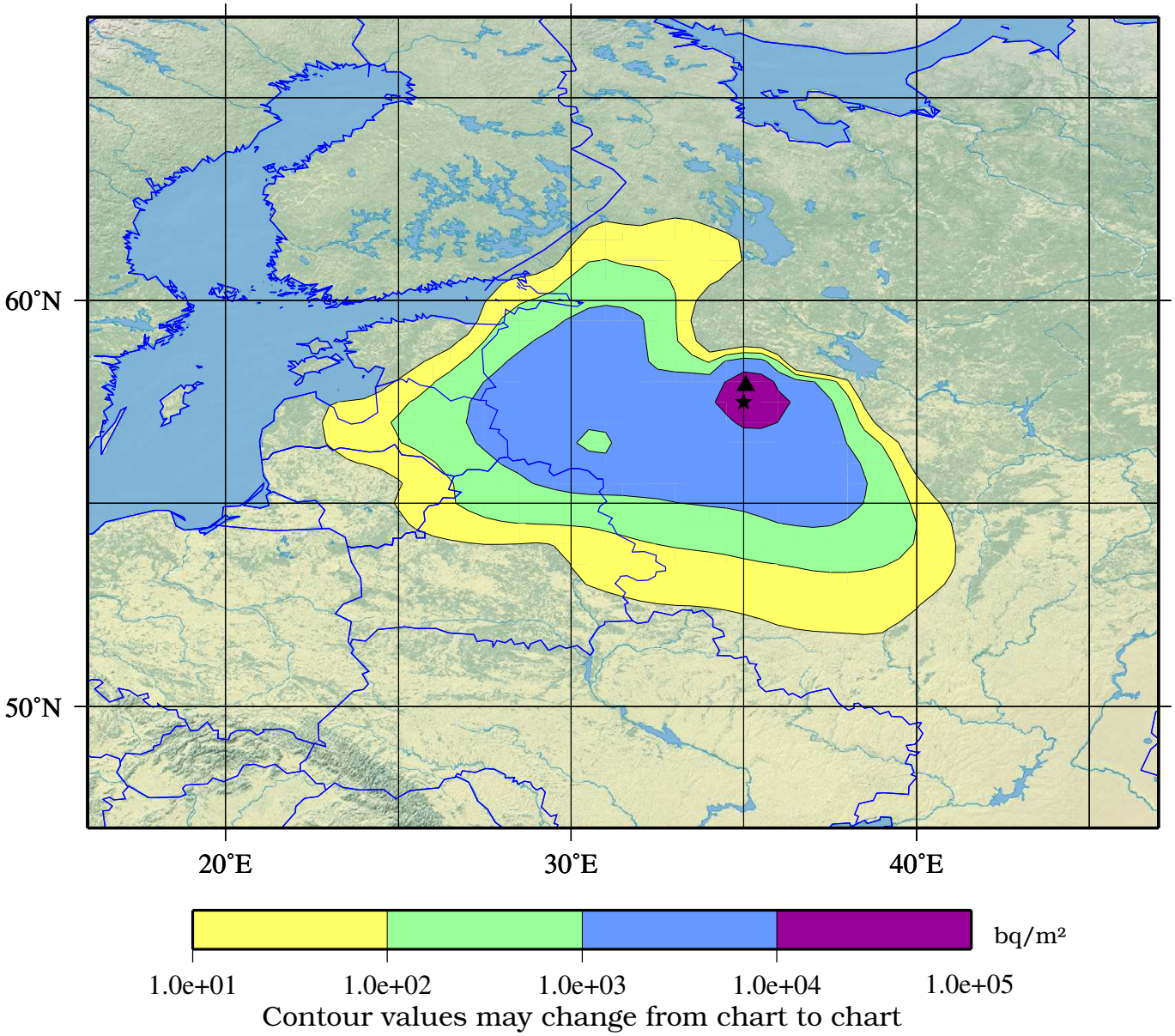
Max value for current step :
31769 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 18/08/2020 09:58:28 UTC

Kalinin 20200818 Exercise 18/08/2020

Total deposition (bq/m²)
from release start
valid 21/08/2020 00h00 UTC



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Source position ▲

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