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 : 1332 UTC  Date : 28 Sep 2019**

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**<< TEST_EVENT  TEST_EVENT  TEST_EVENT >>**

**Release Time date :** 12 UTC 05 Sep 2019
**Release Location in decimal degrees :** 57.90419N 35.05625E
**Location name (if known) :** KALININ
**Emission duration :** 06h00
**Emission (per hour) :** 1.0000 bq
**Substance released :** Cs-137
**Vertical distribution :** Uniform 0 - 500 m (AGL)
**Meteorological Model :** ARPEGE
**Dispersion Model :** Mocage

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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.

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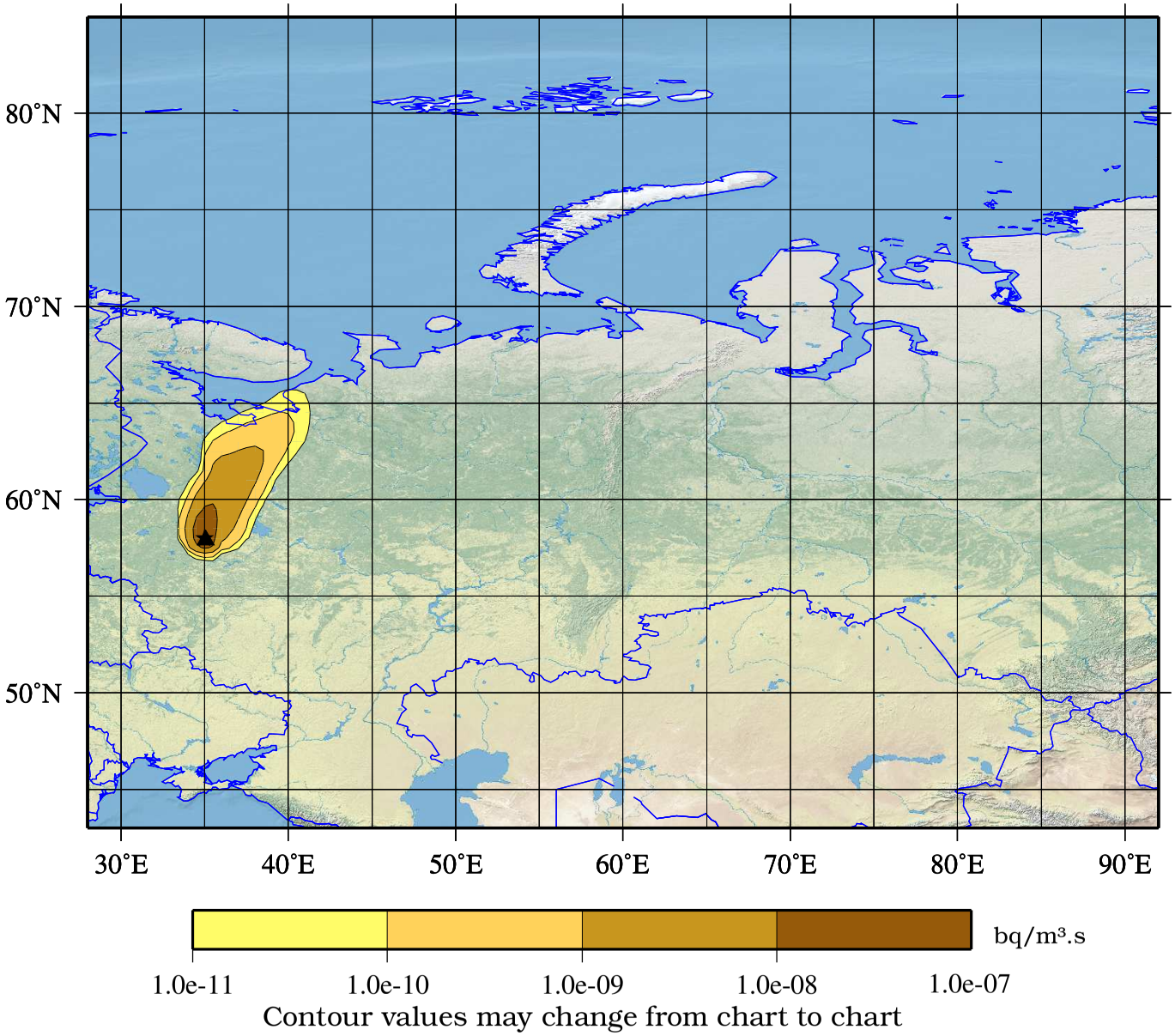
**Number of pages (including cover sheet) = 8**

# KALININ Test 05/09/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 06/09/2019 12h00 UTC




Contour values may change from chart to chart

## Dispersion model : MOCAGE Accident
Meteo model : ARPEGE

Results based on default initial values

**RELEASE DATA**
Site : KALININ
Emission start : 05/09/2019 12h20 UTC
Release duration : 06h00
Lat : 57.90419 N ; 57º54'15" N
Lon : 35.05625 E ; 35º3'22" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

**MODEL DATA**
Grid resolution : 0.5º
Init for meteo data
05/09/2019 00UTC

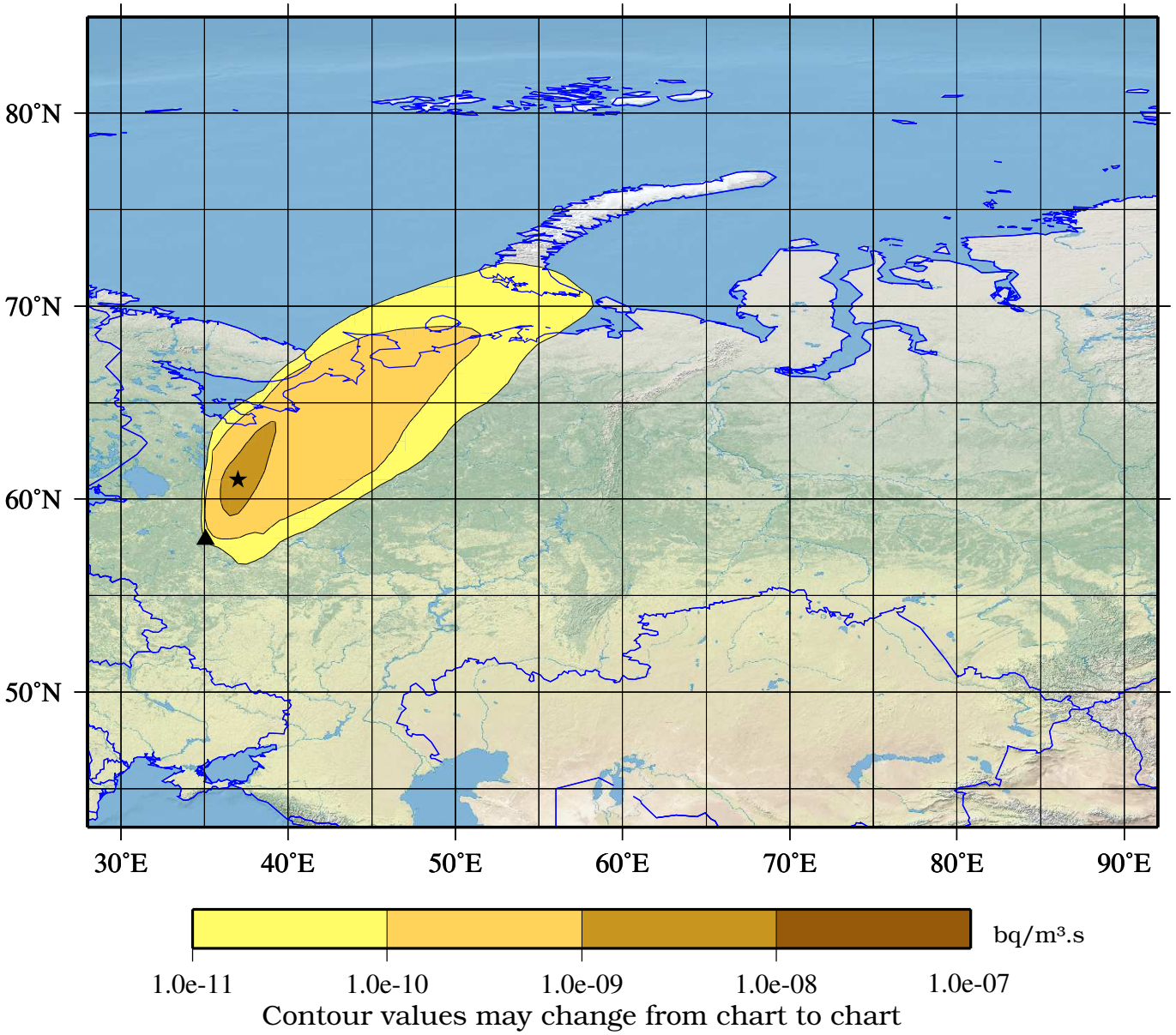
Max value for current step :
3.28095e-08 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/09/2019 12:47:00 UTC

# KALININ Test 05/09/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 07/09/2019 12h00 UTC




## Dispersion model : MOCAGE Accident
Meteo model : ARPEGE

Results based on default initial values

**RELEASE DATA**
Site : KALININ
Emission start : 05/09/2019 12h20 UTC
Release duration : 06h00
Lat : 57.90419 N ; 57º54'15" N
Lon : 35.05625 E ; 35º3'22" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

**MODEL DATA**
Grid resolution : 0.5º
Init for meteo data
05/09/2019 00UTC

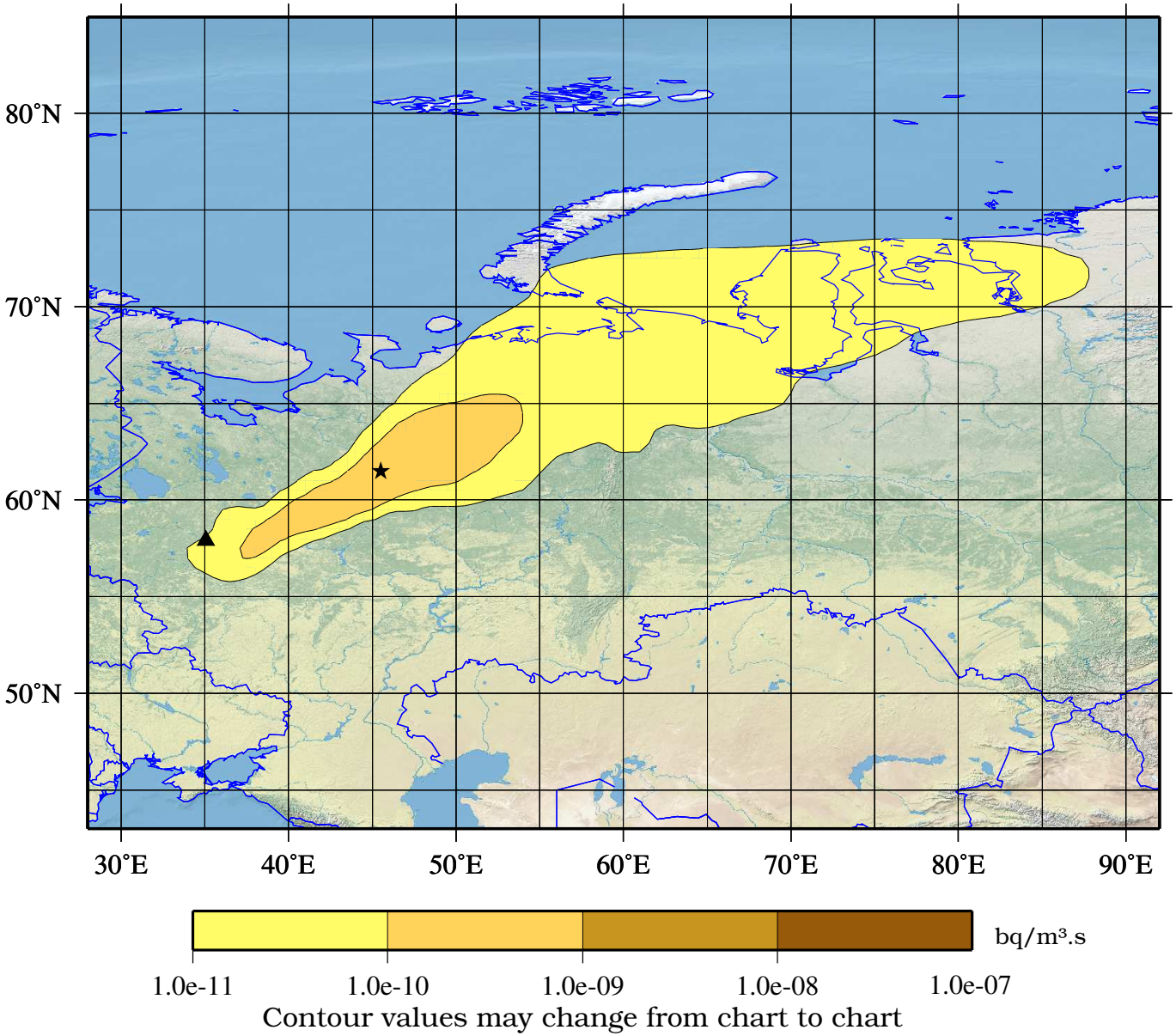
Max value for current step :
2.11349e-09 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/09/2019 12:47:00 UTC

# KALININ Test 05/09/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 08/09/2019 12h00 UTC




Contour values may change from chart to chart

## Dispersion model : MOCAGE Accident
Meteo model : ARPEGE

Results based on default initial values

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Lon : 35.05625 E ; 35º3'22" E
Emission rate : 1.0e+00 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

**MODEL DATA**
Grid resolution : 0.5º
Init for meteo data
05/09/2019 00UTC

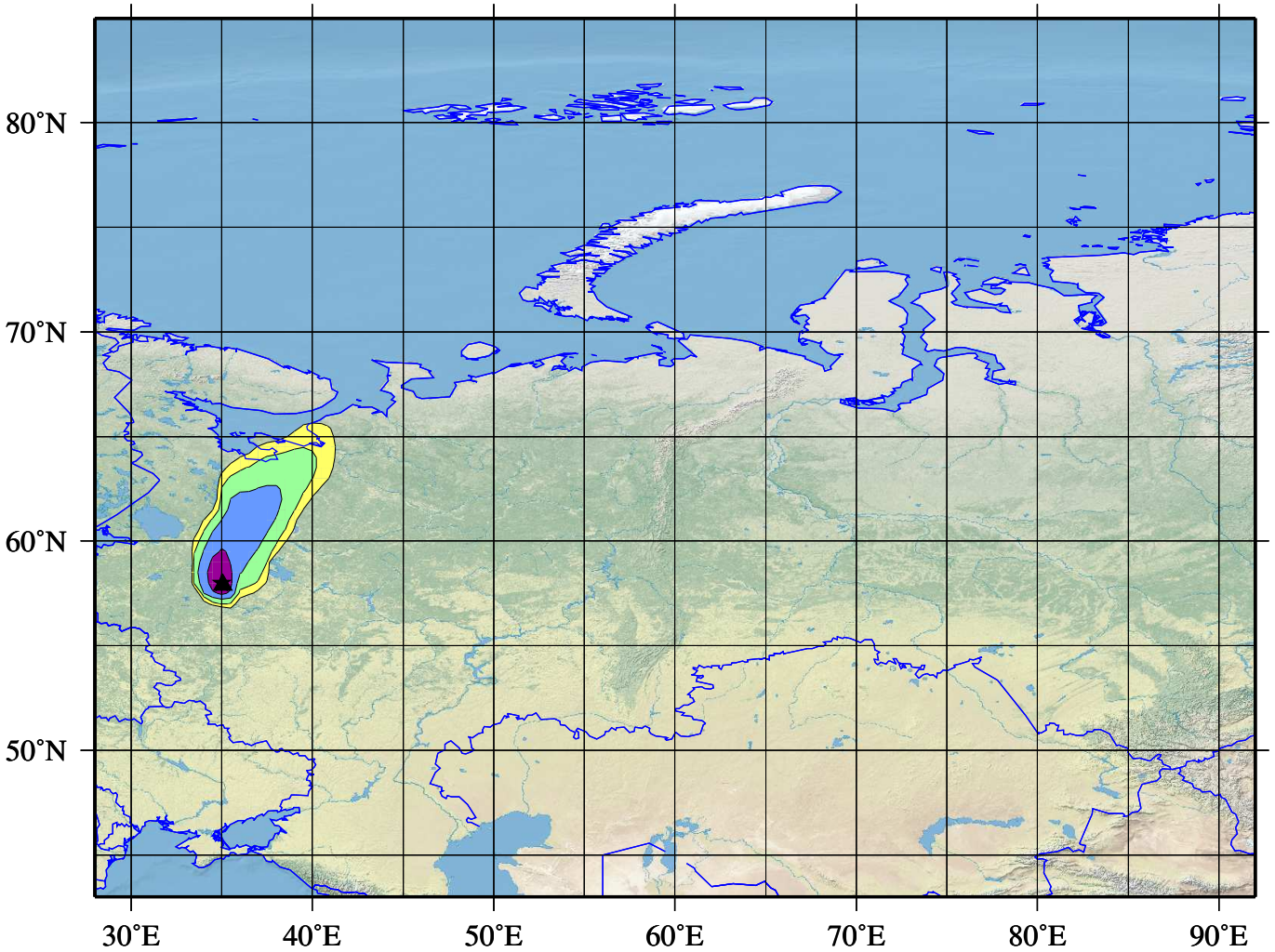
Max value for current step :
3.82825e-10 bq/m³.s

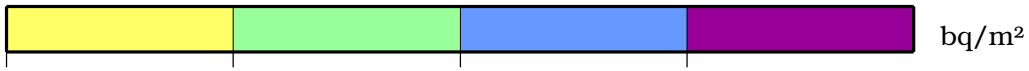
Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/09/2019 12:47:00 UTC

# KALININ Test 05/09/2019

Total deposition (bq/m²)
from release start
valid 06/09/2019 12h00 UTC




Contour values may change from chart to chart

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

**MODEL DATA**
Grid resolution : 0.5º
Init for meteo data
05/09/2019 00UTC

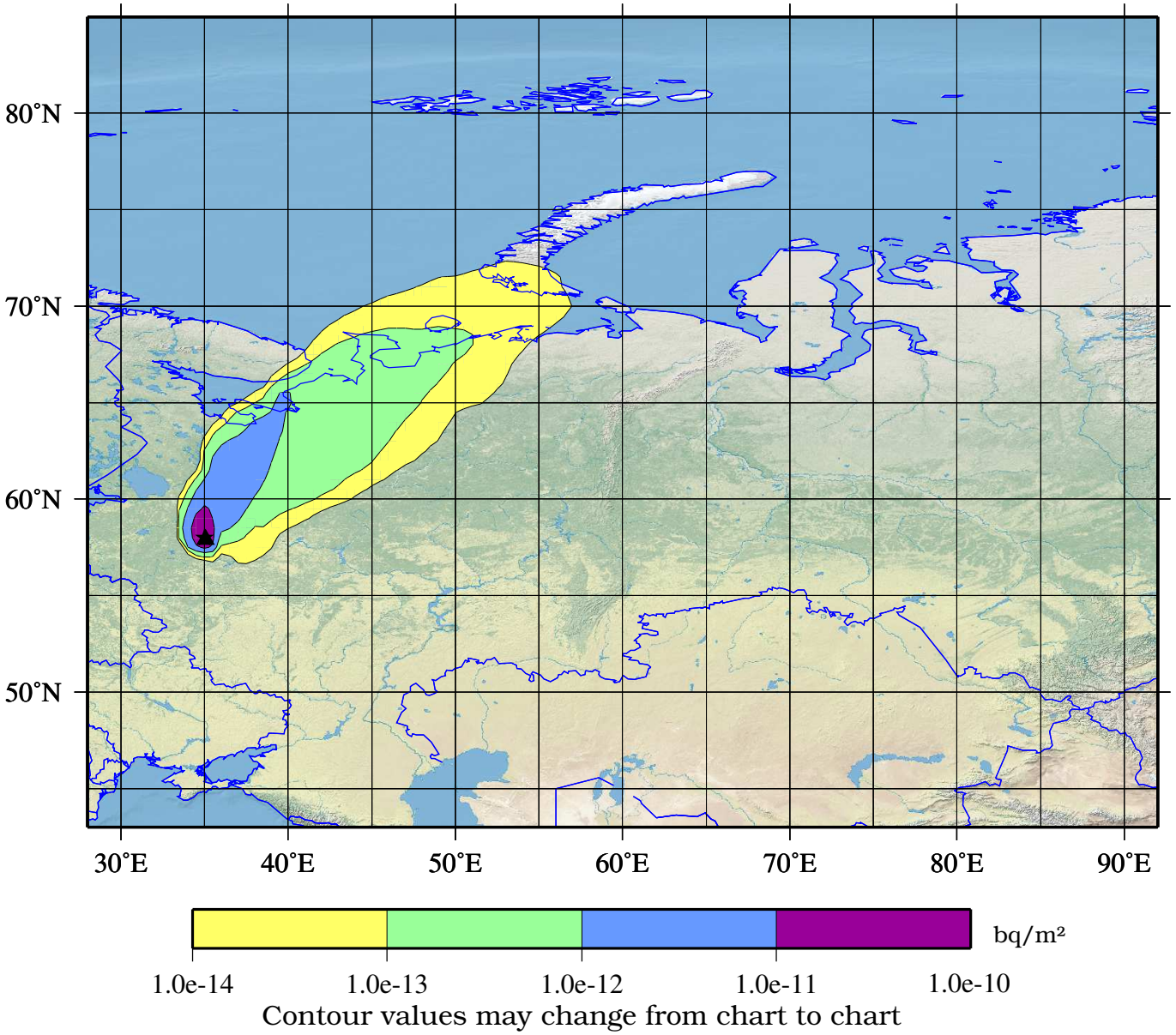
Max value for current step :
3.28852e-11 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 05/09/2019 12:47:00 UTC

# KALININ Test 05/09/2019

Total deposition (bq/m²)
from release start
valid 07/09/2019 12h00 UTC

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Base : 0m
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**MODEL DATA**
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Init for meteo data
05/09/2019 00UTC

Max value for current step :
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Max position ★
Source position ▲

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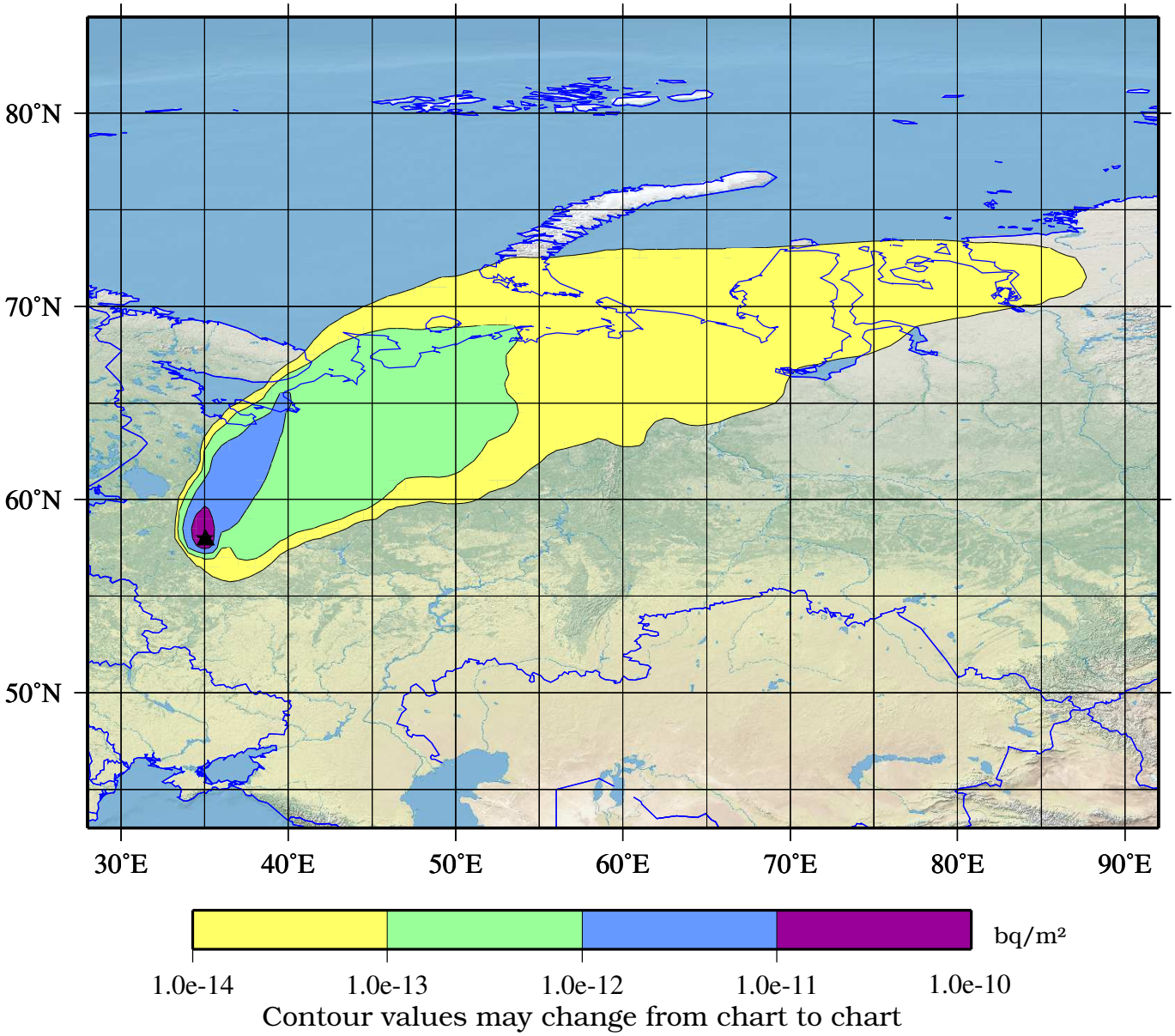
TOULOUSE RSMC
Issued 05/09/2019 12:47:00 UTC

# KALININ Test 05/09/2019

Total deposition (bq/m²)
from release start
valid 08/09/2019 12h00 UTC

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