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 : 0744 UTC Date : 17 May 2016

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

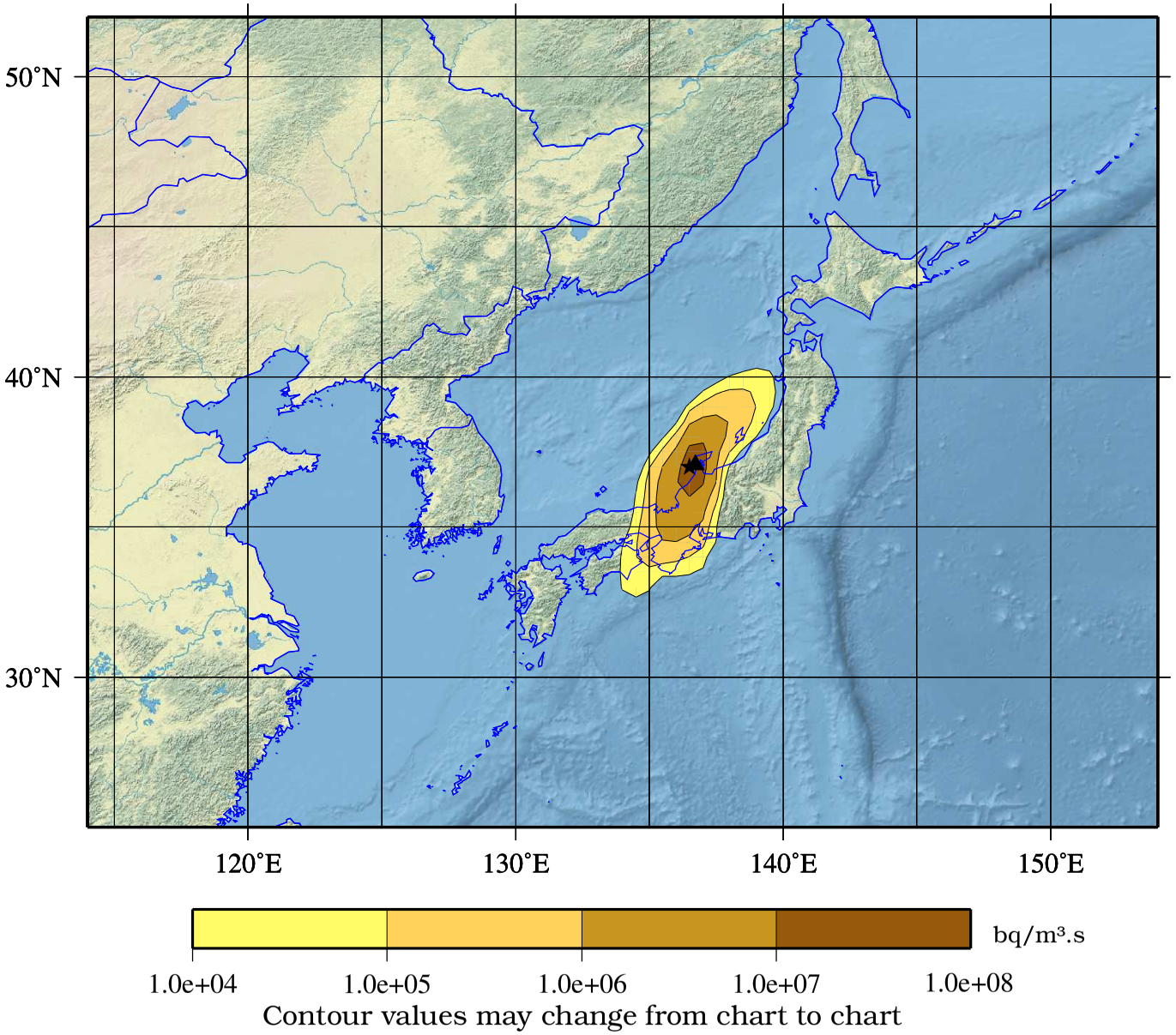
Release Time date : 07 UTC 17 May 2016
Release Location in decimal degrees : 37.06103N 136.72674E
Location name (if known) : SHIKA
Emission duration : 03h00
Emission (per hour) : 20700000000.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 20 - 500 m (AGL)
Meteorological Model : ECMWF
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

SHIKA Exercise 17/05/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 17 hours
valid 18/05/2016 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : SHIKA
Emission start : 17/05/2016 07h00 UTC
Release duration : 03h00
Lat : 37.06103 N ; 37º3'39" N
Lon : 136.72674 E ; 136º43'36" E
Emission rate : 2.1e+15 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/05/2016 12UTC

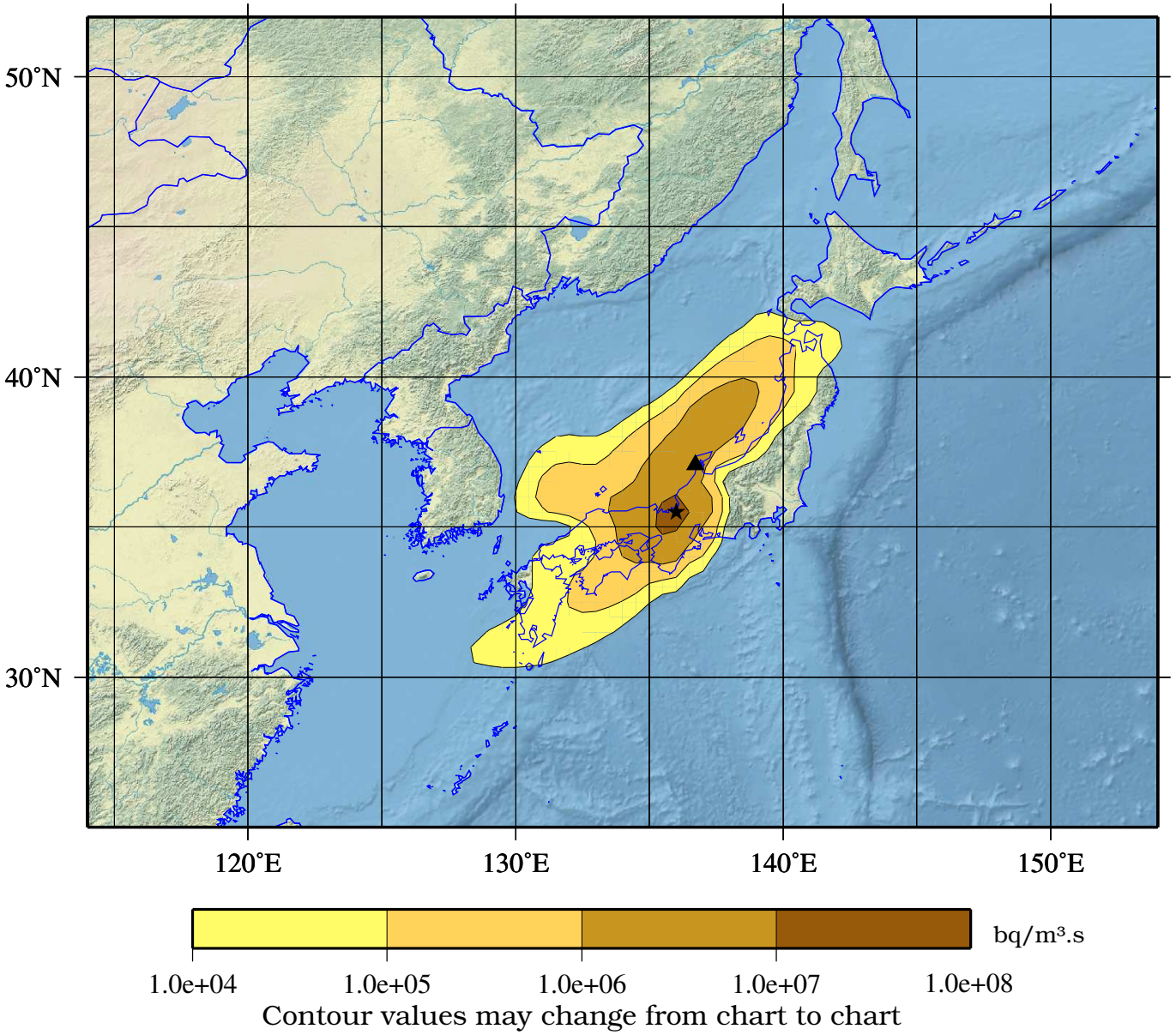
Max value for current step :
24888600 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/05/2016 07:31:47 UTC

SHIKA Exercise 17/05/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/05/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : SHIKA
Emission start : 17/05/2016 07h00 UTC
Release duration : 03h00
Lat : 37.06103 N ; 37º3'39" N
Lon : 136.72674 E ; 136º43'36" E
Emission rate : 2.1e+15 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/05/2016 12UTC

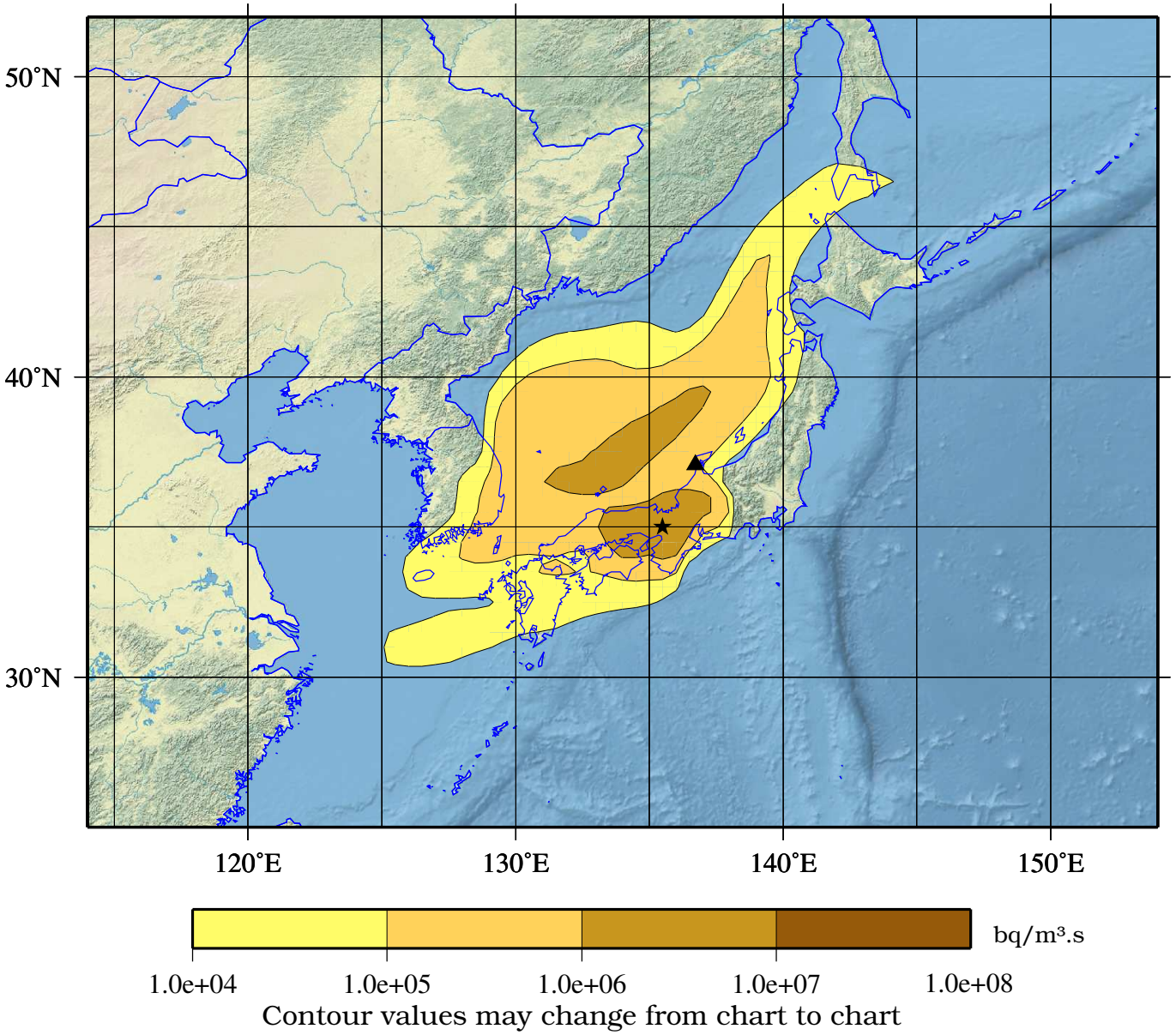
Max value for current step :
15205500 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/05/2016 07:31:47 UTC

SHIKA Exercise 17/05/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/05/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : SHIKA
Emission start : 17/05/2016 07h00 UTC
Release duration : 03h00
Lat : 37.06103 N ; 37º3'39" N
Lon : 136.72674 E ; 136º43'36" E
Emission rate : 2.1e+15 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/05/2016 12UTC

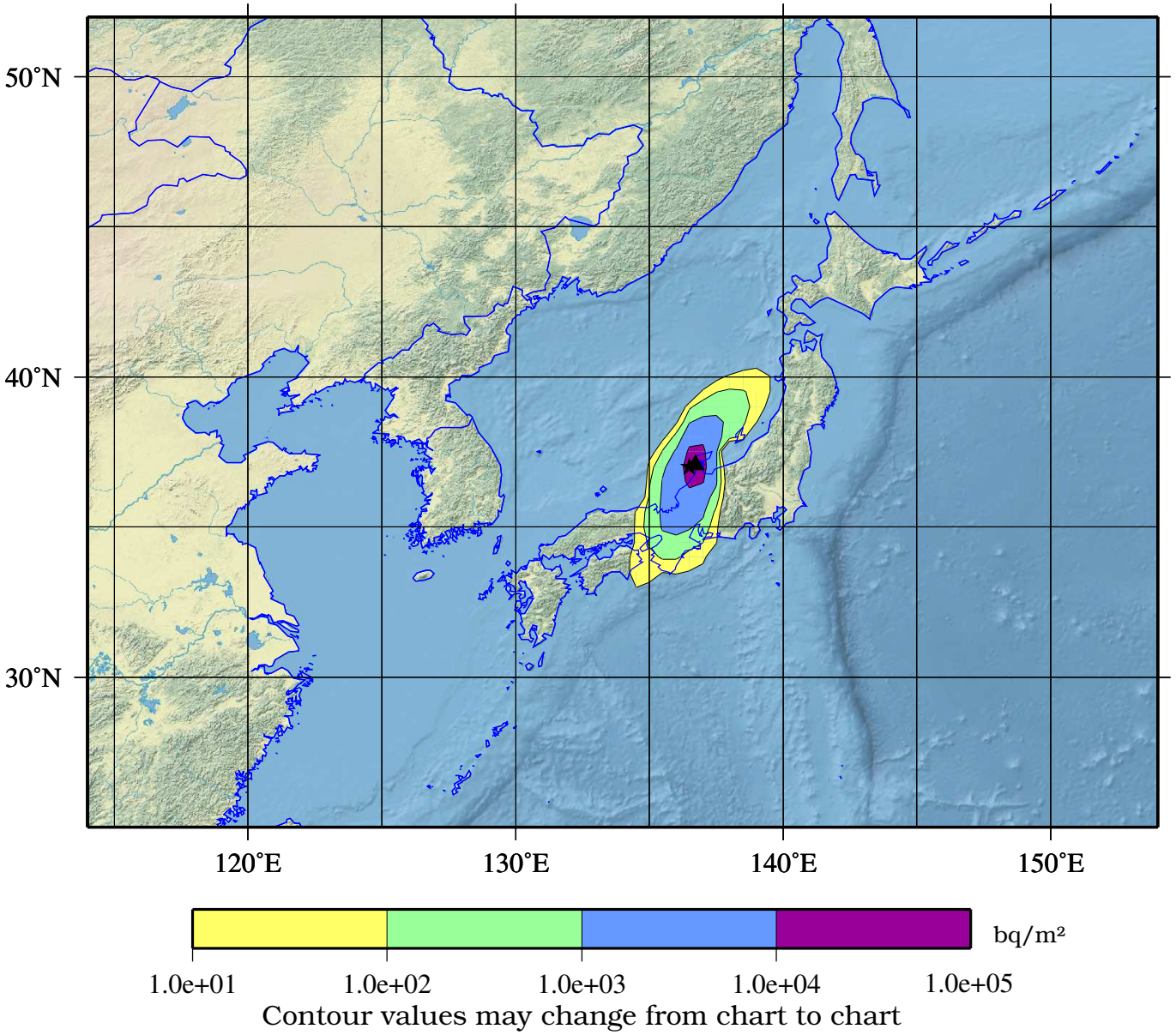
Max value for current step :
6208690 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/05/2016 07:31:47 UTC

SHIKA Exercise 17/05/2016

Total deposition (bq/m²)
from release start
valid 18/05/2016 00h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : SHIKA
Emission start : 17/05/2016 07h00 UTC
Release duration : 03h00
Lat : 37.06103 N ; 37º3'39" N
Lon : 136.72674 E ; 136º43'36" E
Emission rate : 2.1e+15 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/05/2016 12UTC

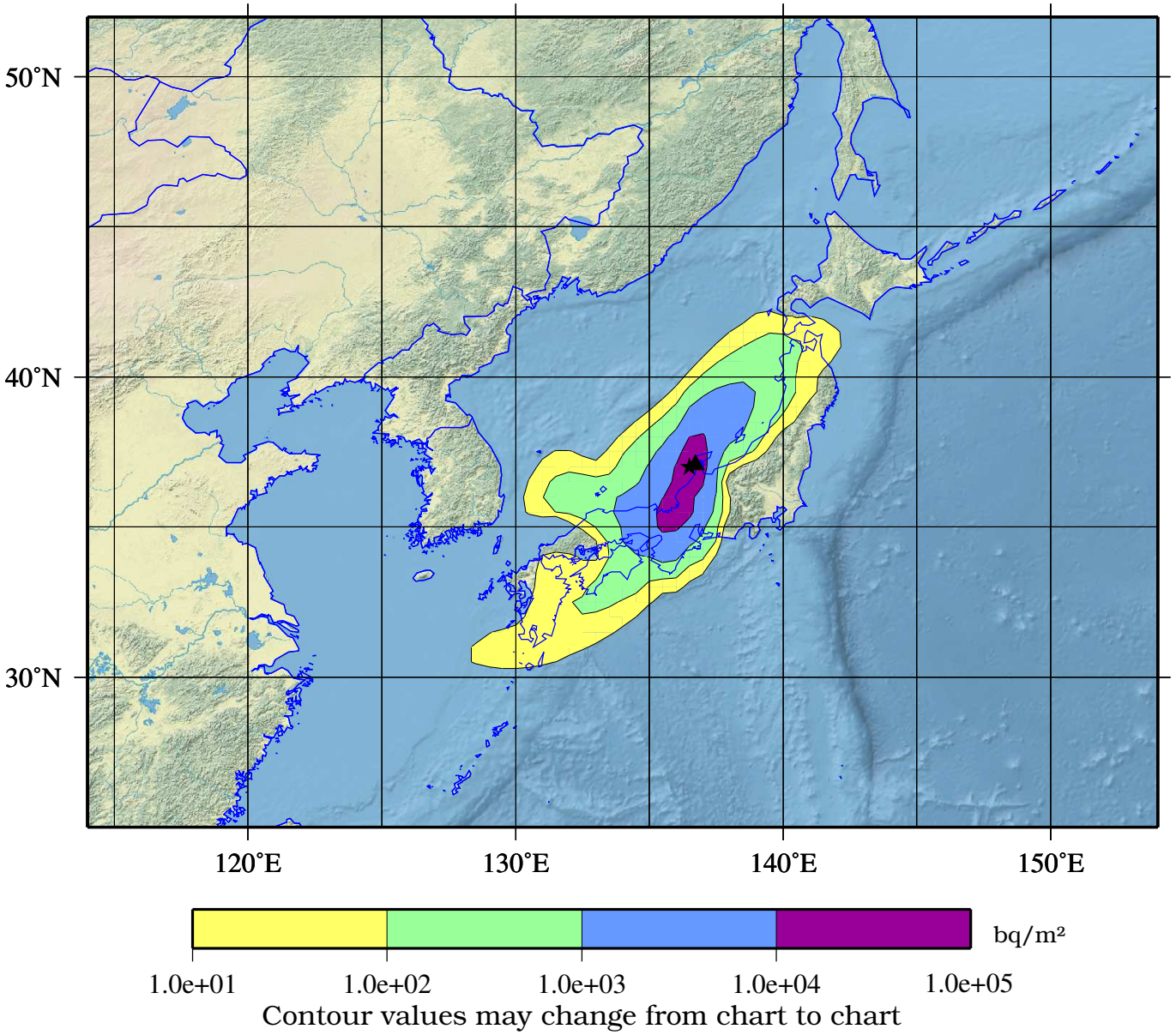
Max value for current step :
20893 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/05/2016 07:31:47 UTC

SHIKA Exercise 17/05/2016

Total deposition (bq/m²)
from release start
valid 19/05/2016 00h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : SHIKA
Emission start : 17/05/2016 07h00 UTC
Release duration : 03h00
Lat : 37.06103 N ; 37º3'39" N
Lon : 136.72674 E ; 136º43'36" E
Emission rate : 2.1e+15 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/05/2016 12UTC

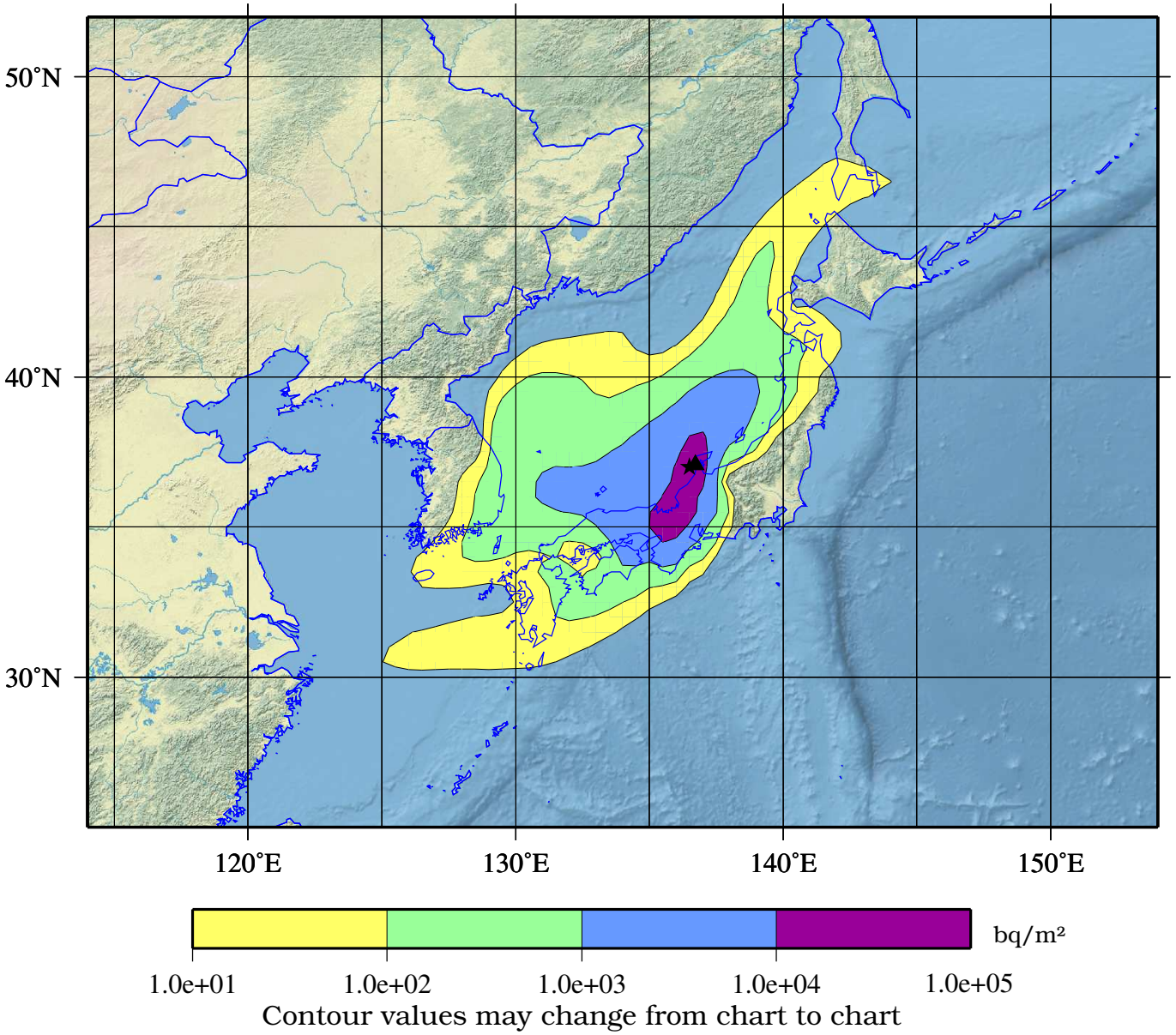
Max value for current step :
27925.4 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/05/2016 07:31:47 UTC

SHIKA Exercise 17/05/2016

Total deposition (bq/m²)
from release start
valid 20/05/2016 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : SHIKA
Emission start : 17/05/2016 07h00 UTC
Release duration : 03h00
Lat : 37.06103 N ; 37º3'39" N
Lon : 136.72674 E ; 136º43'36" E
Emission rate : 2.1e+15 bq/h
Base : 20m
Top : 500m
Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/05/2016 12UTC

Max value for current step :
28183.8 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/05/2016 07:31:47 UTC