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 : 1434 UTC Date : 17 Jan 2017

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

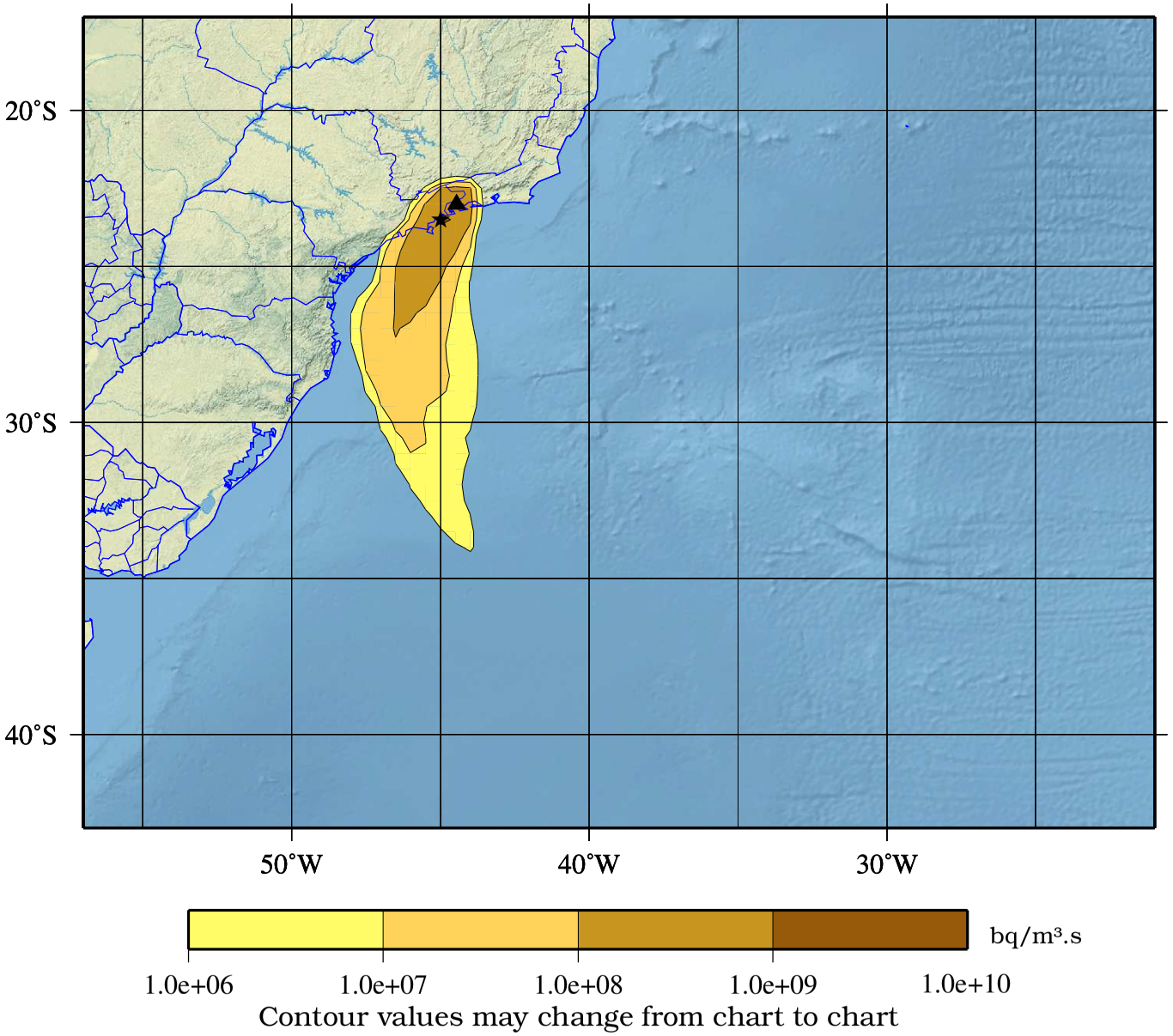
Release Time date : 12 UTC 17 Jan 2017
Release Location in decimal degrees : 23.0075S 44.45881W
Location name (if known) : Angra_NPP_Brazil
Emission duration : 04h00
Emission (per hour) : 13749984000.0000 bq
Substance released : Cs-137
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : 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

Angra NPP Brazil Exercise 17/01/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 18/01/2017 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : Angra NPP Brazil
Emission start : 17/01/2017 12h00 UTC
Release duration : 04h00
Lat : 23.0075 S ; 23º0'27" S
Lon : 44.4588 W ; 44º27'31" W
Emission rate : 1.4e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/01/2017 00UTC

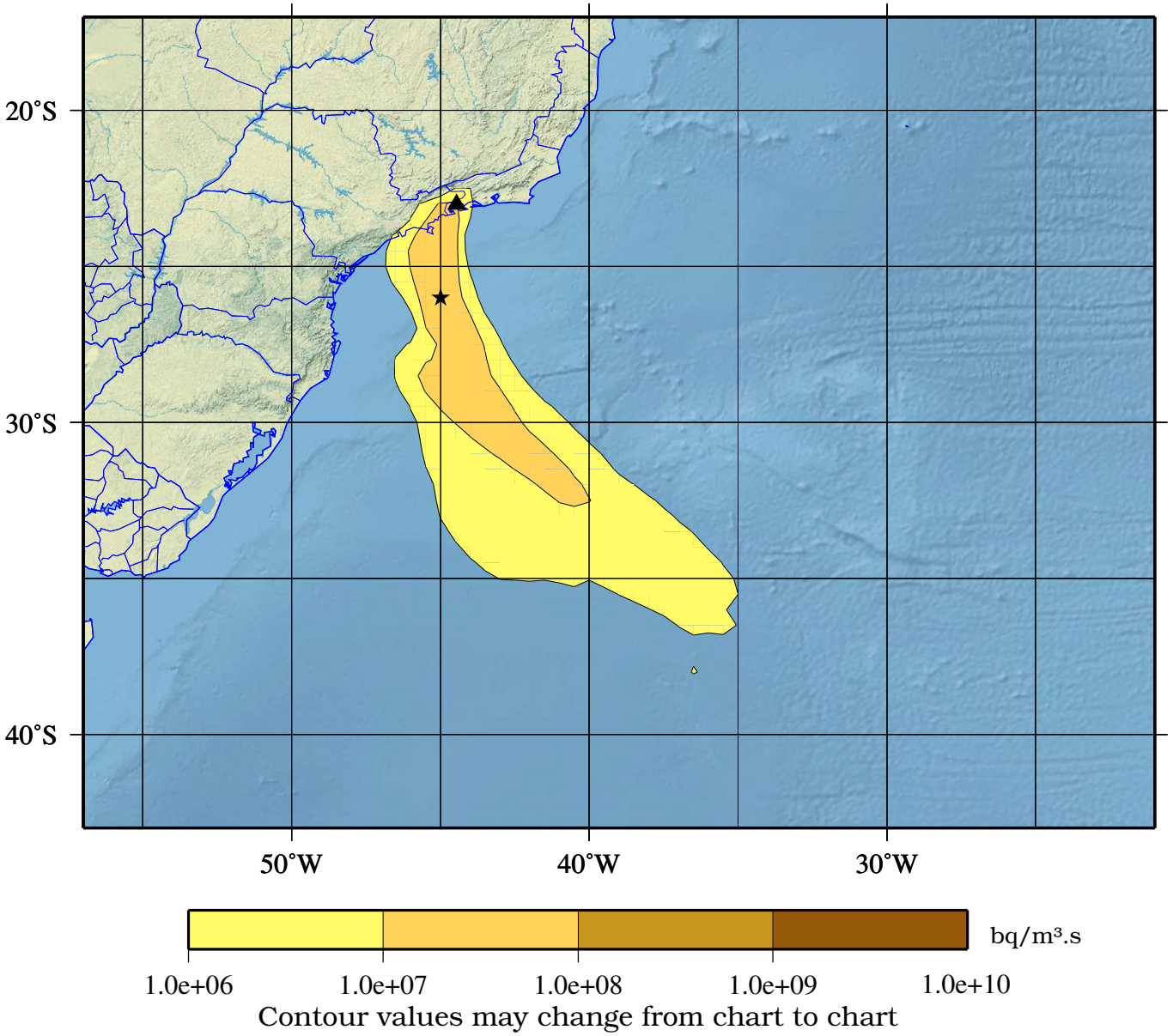
Max value for current step :
1150800000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/01/2017 14:25:56 UTC

Angra NPP Brazil Exercise 17/01/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/01/2017 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
17/01/2017 00UTC

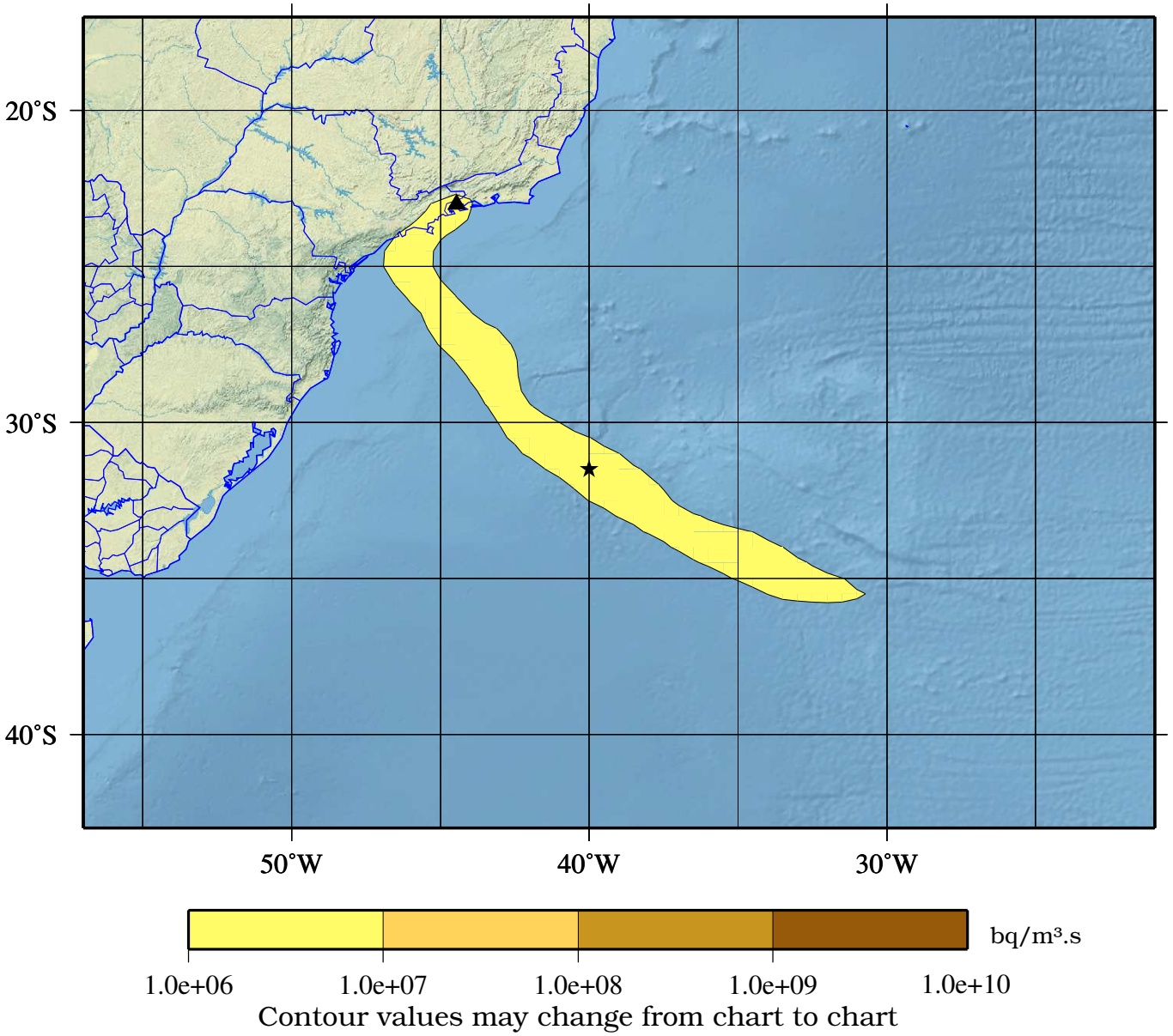
Max value for current step :
43451000 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/01/2017 14:25:56 UTC

Angra NPP Brazil Exercise 17/01/2017

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 20/01/2017 12h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Released pollutant : Cs-137

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
17/01/2017 00UTC

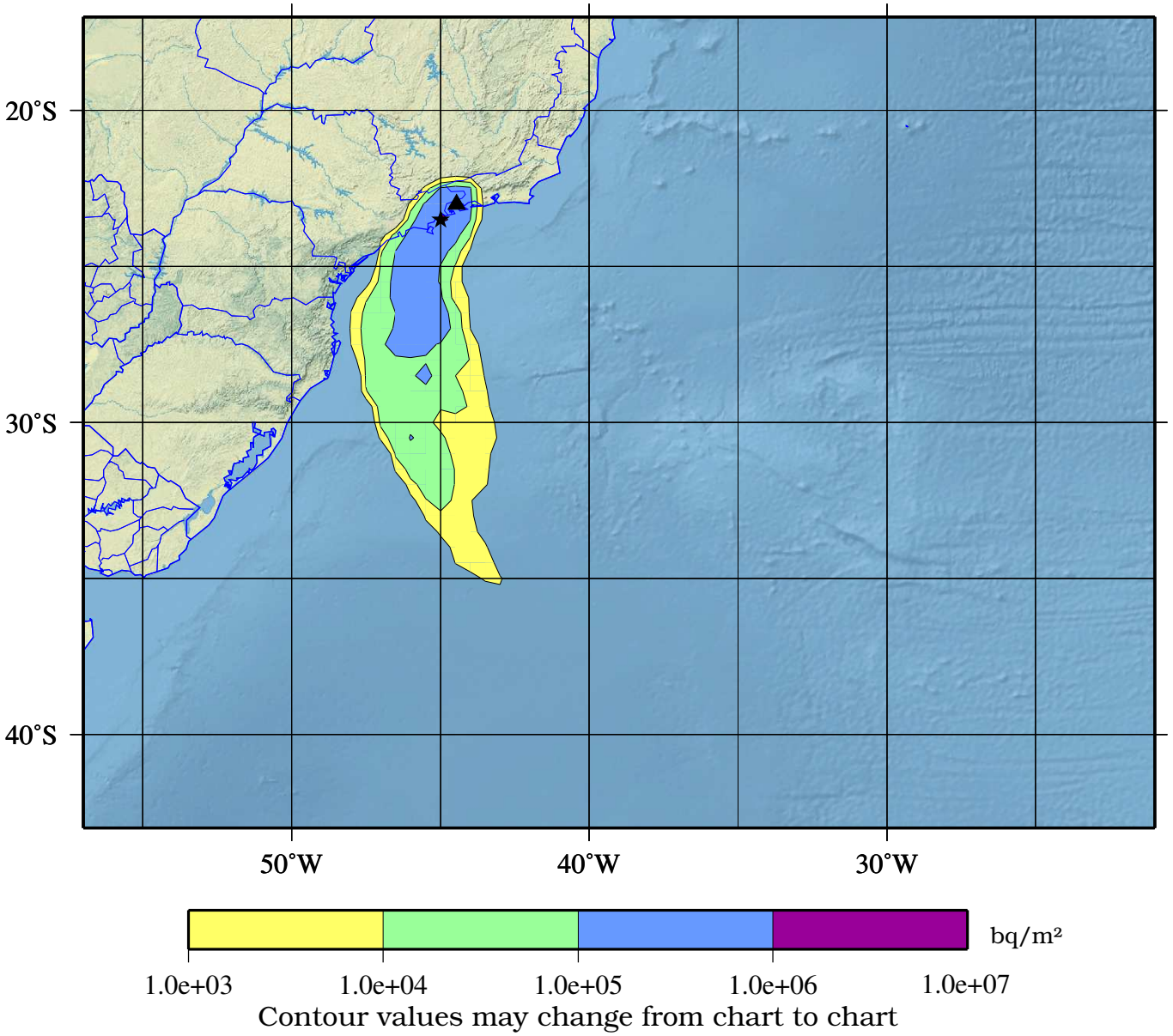
Max value for current step :
5272300 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/01/2017 14:25:56 UTC

Angra NPP Brazil Exercise 17/01/2017

Total deposition (bq/m²)
from release start
valid 18/01/2017 12h00 UTC



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MOCAGE Accident
Meteo model : ECMWF

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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/01/2017 00UTC

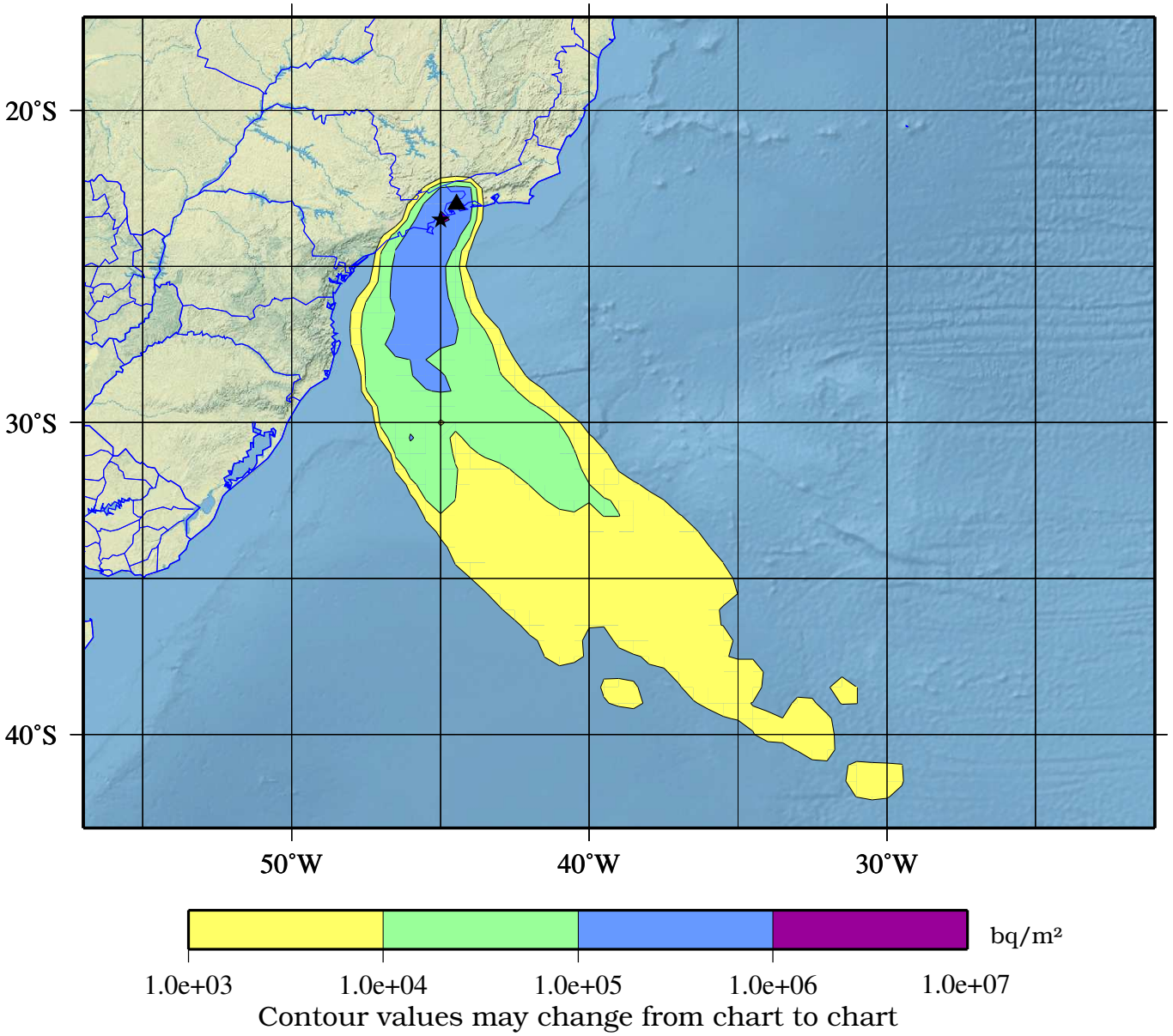
Max value for current step :
1153880 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/01/2017 14:25:56 UTC

Angra NPP Brazil Exercise 17/01/2017

Total deposition (bq/m²)
from release start
valid 19/01/2017 12h00 UTC



Dispersion model : MOCAGE Accident
Meteo model : ECMWF

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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/01/2017 00UTC

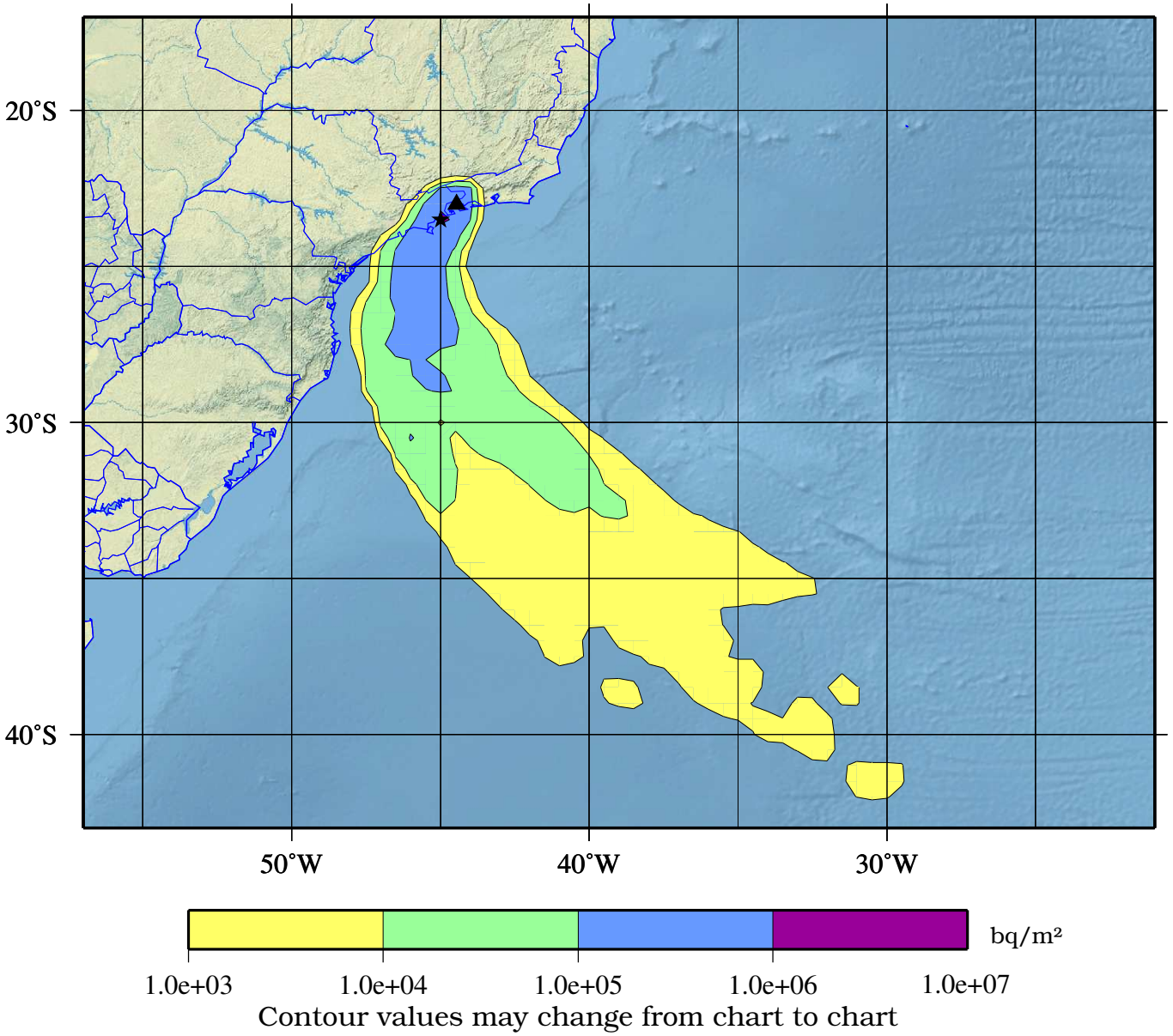
Max value for current step :
1190180 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/01/2017 14:25:56 UTC

Angra NPP Brazil Exercise 17/01/2017

Total deposition (bq/m²)
from release start
valid 20/01/2017 12h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Emission rate : 1.4e+17 bq/h
Base : 0m
Top : 500m
Released pollutant : Cs-137

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
17/01/2017 00UTC

Max value for current step :
1196470 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 17/01/2017 14:25:56 UTC