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 : 0728 UTC Date : 19 Feb 2016

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

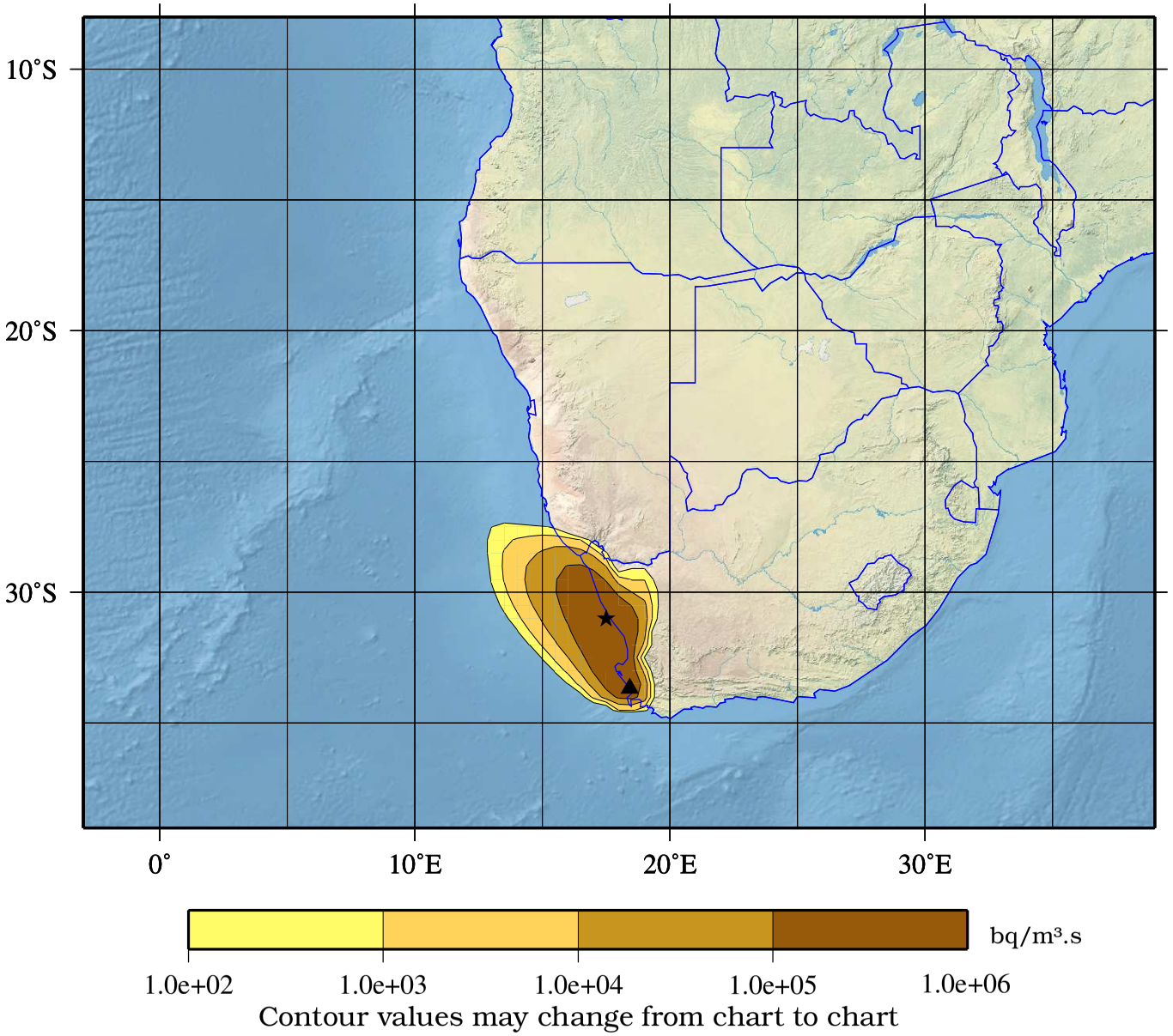
Release Time date : 10 UTC 16 Feb 2016
Release Location in decimal degrees : 33.6768S 18.4316E
Location name (if known) : Koeberg
Emission duration : 04h00
Emission (per hour) : 20350008000.0000 bq
Substance released : I-131
Vertical distribution : Uniform 100 - 500 m (AGL)
Meteorological Model : ECMWF
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

Koeberg Exercise 16/02/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 14 hours
valid 17/02/2016 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : Koeberg
Emission start : 16/02/2016 10h00 UTC
Release duration : 04h00
Lat : 33.6768 S ; 33º40'36" S
Lon : 18.4316 E ; 18º25'53" E
Emission rate : 2.0e+14 bq/h
Base : 100m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/02/2016 00UTC

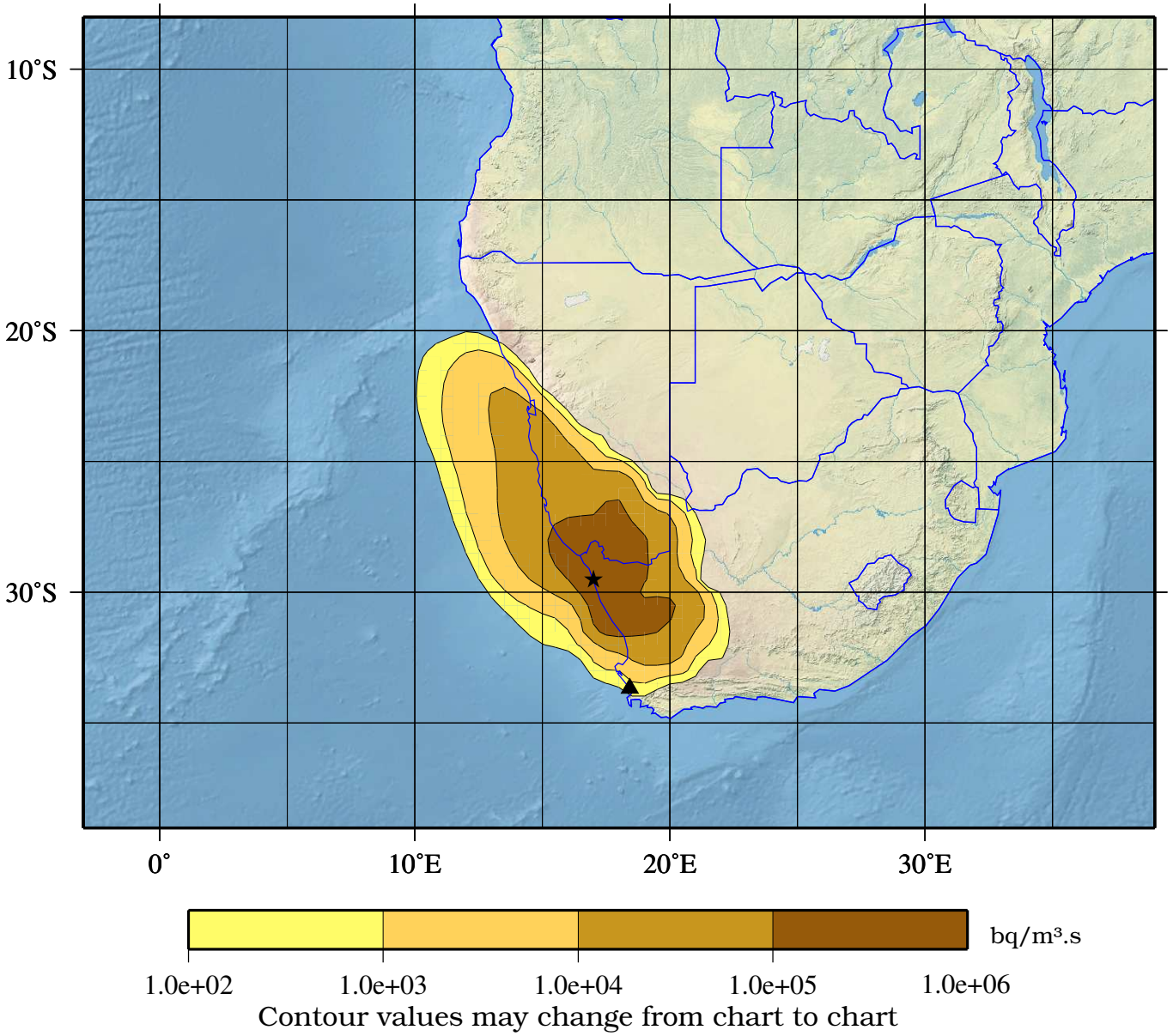
Max value for current step :
796159 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/02/2016 09:16:09 UTC

Koeberg Exercise 16/02/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 18/02/2016 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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Lon : 18.4316 E ; 18º25'53" E
Emission rate : 2.0e+14 bq/h
Base : 100m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/02/2016 00UTC

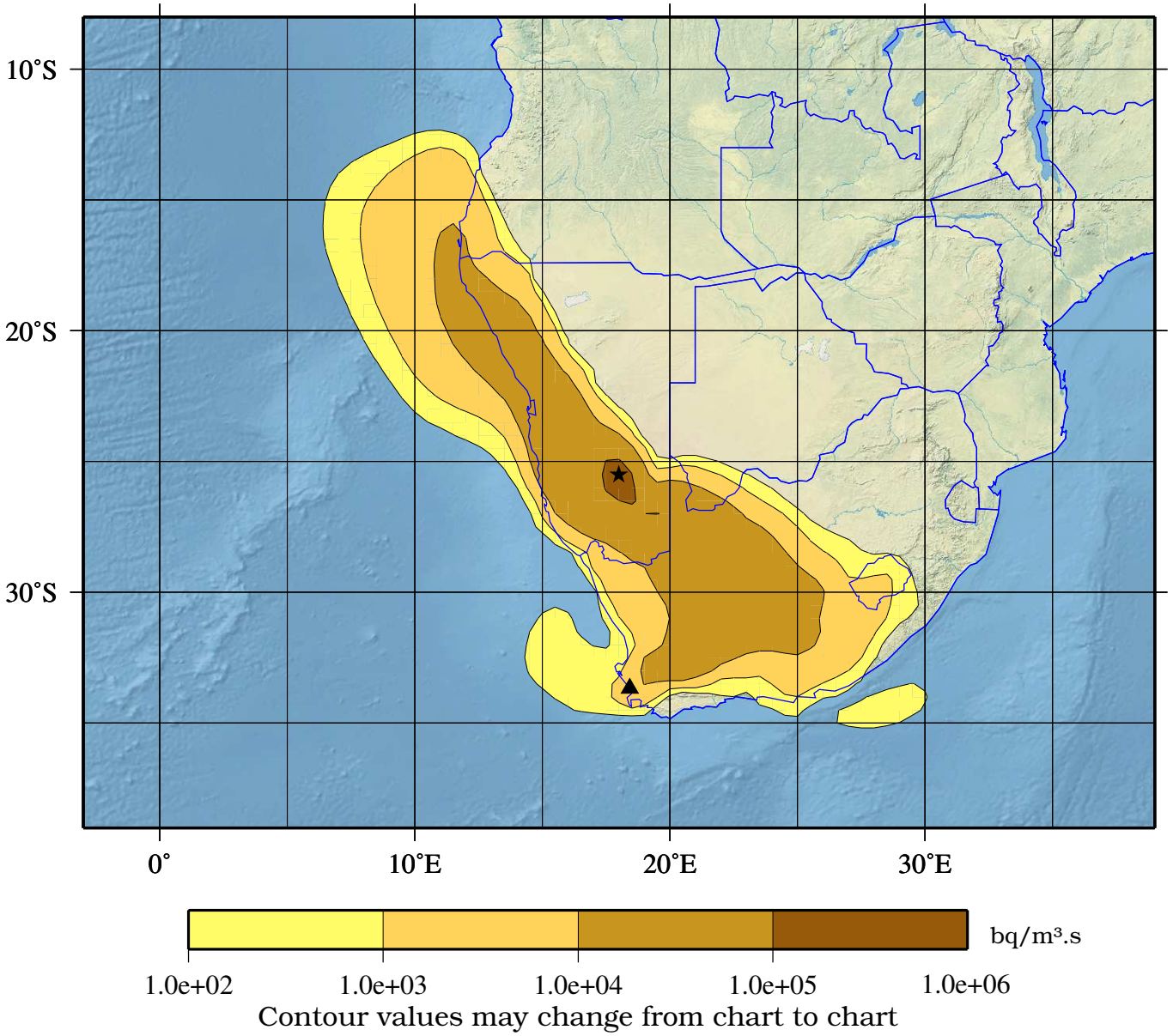
Max value for current step :
557186 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/02/2016 09:16:09 UTC

Koeberg Exercise 16/02/2016

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 19/02/2016 00h00 UTC



Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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Base : 100m
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Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
16/02/2016 00UTC

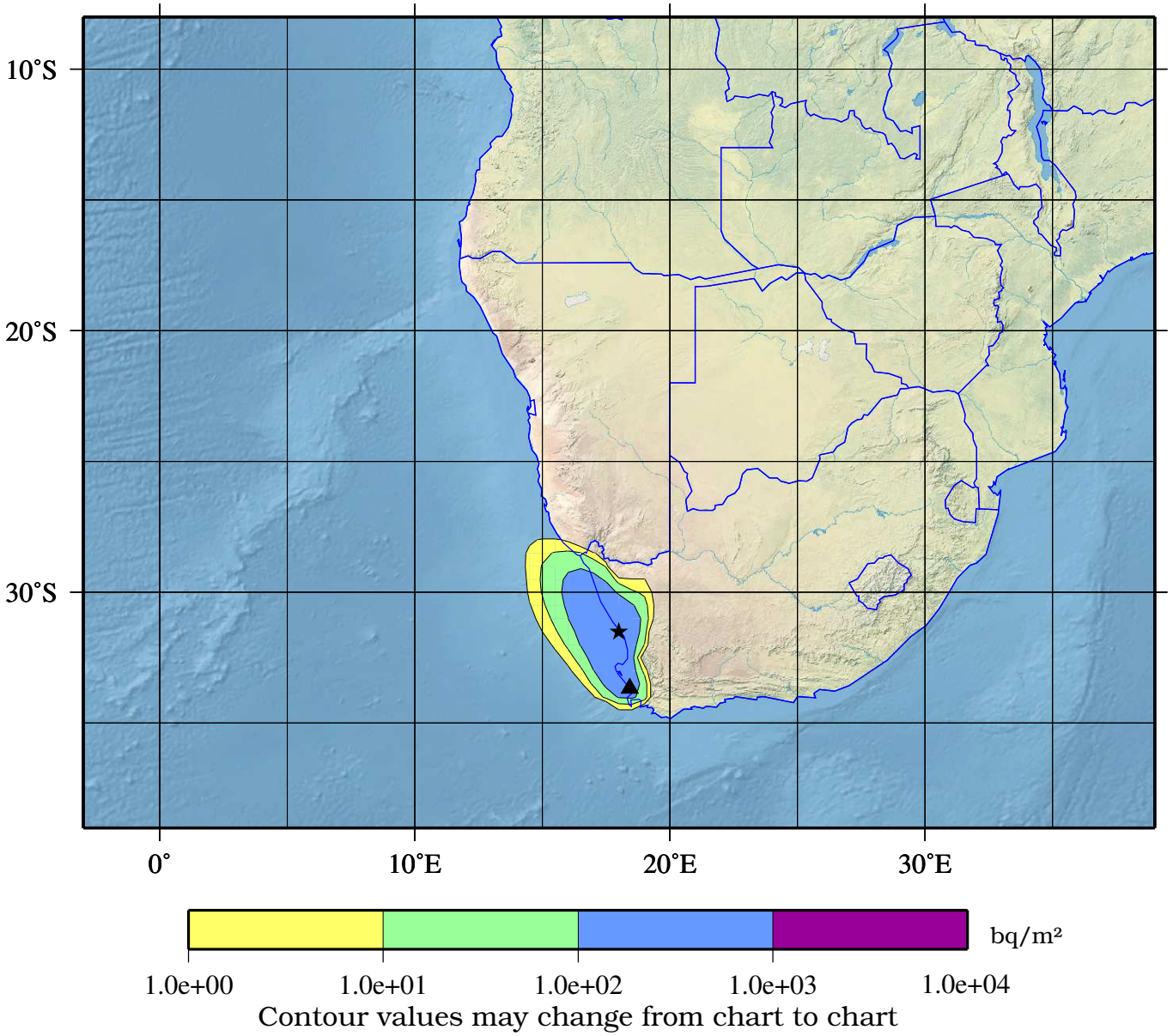
Max value for current step :
171791 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/02/2016 09:16:09 UTC

Koeberg Exercise 16/02/2016

Total deposition (bq/m²)
from release start
valid 17/02/2016 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/02/2016 00UTC

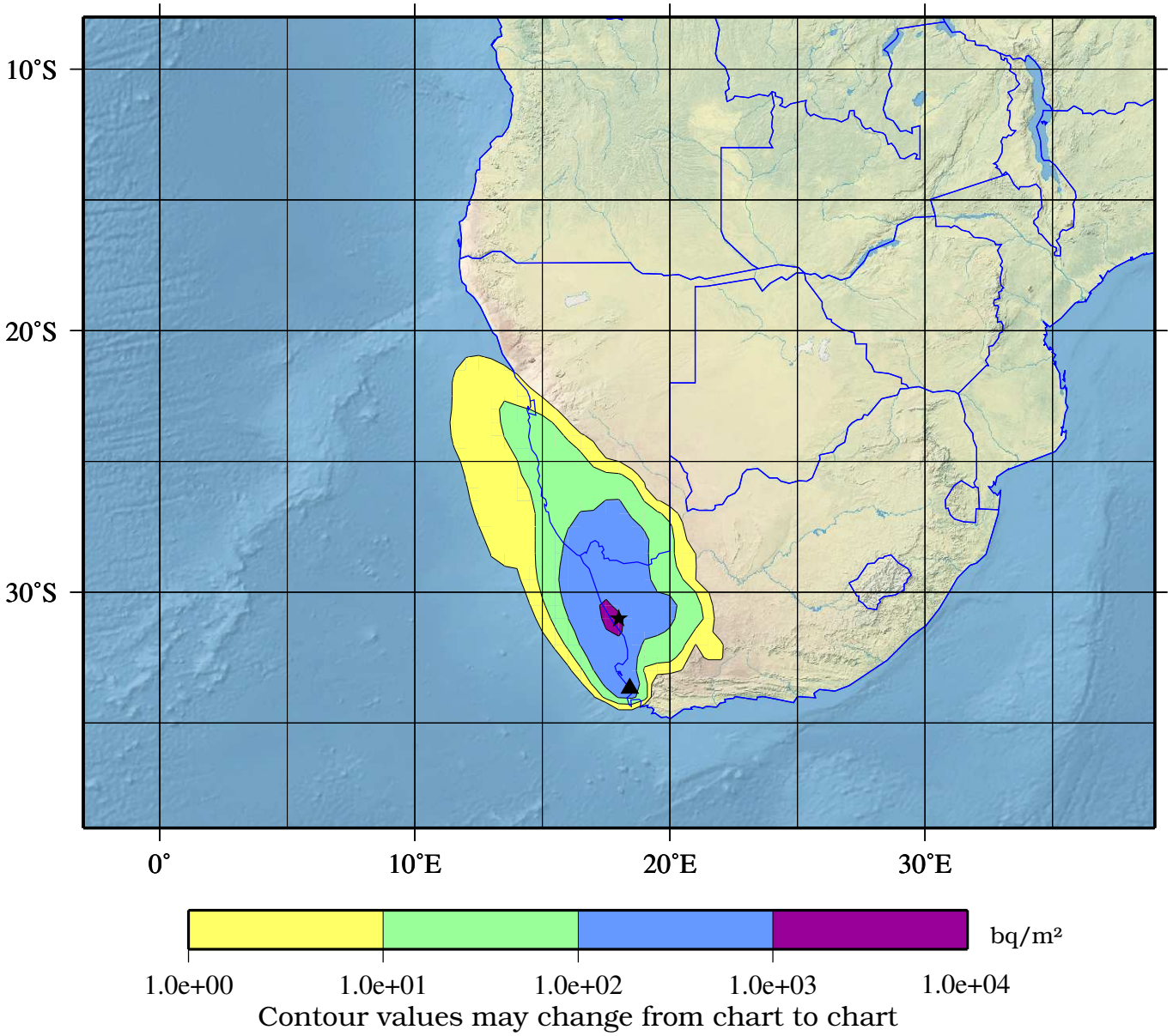
Max value for current step :
941.89 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 16/02/2016 09:16:09 UTC

Koeberg Exercise 16/02/2016

Total deposition (bq/m²)
from release start
valid 18/02/2016 00h00 UTC



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Meteo model : ECMWF

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MODEL DATA
Grid resolution : 0.5º
Init for meteo data
16/02/2016 00UTC

Max value for current step :
1291.22 bq/m²

Max position ★
Source position ▲

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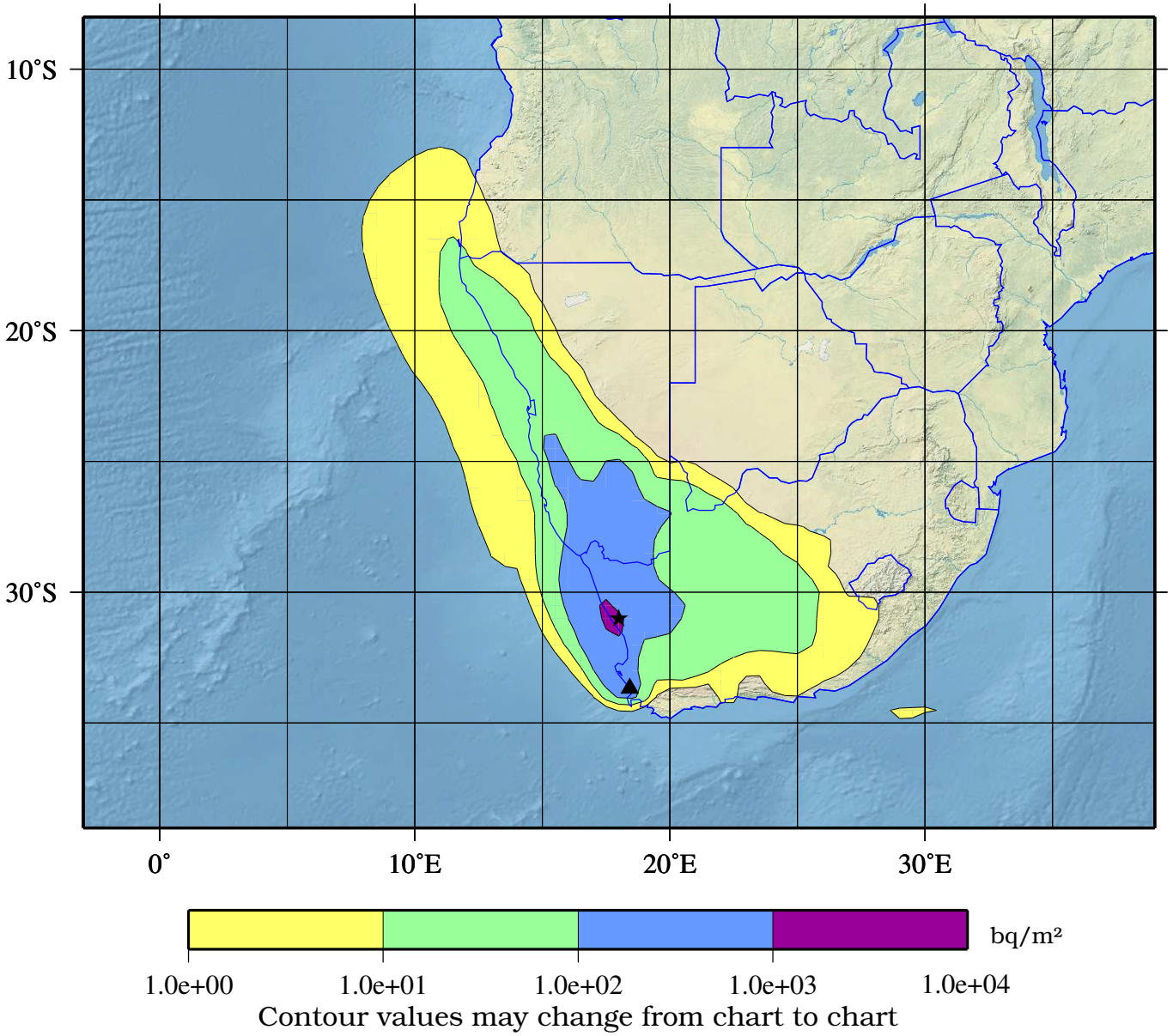
TOULOUSE RSMC
Issued 16/02/2016 09:16:09 UTC

Koeberg Exercise 16/02/2016

Total deposition (bq/m²)
from release start
valid 19/02/2016 00h00 UTC



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