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 : 0858 UTC Date : 21 May 2019

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

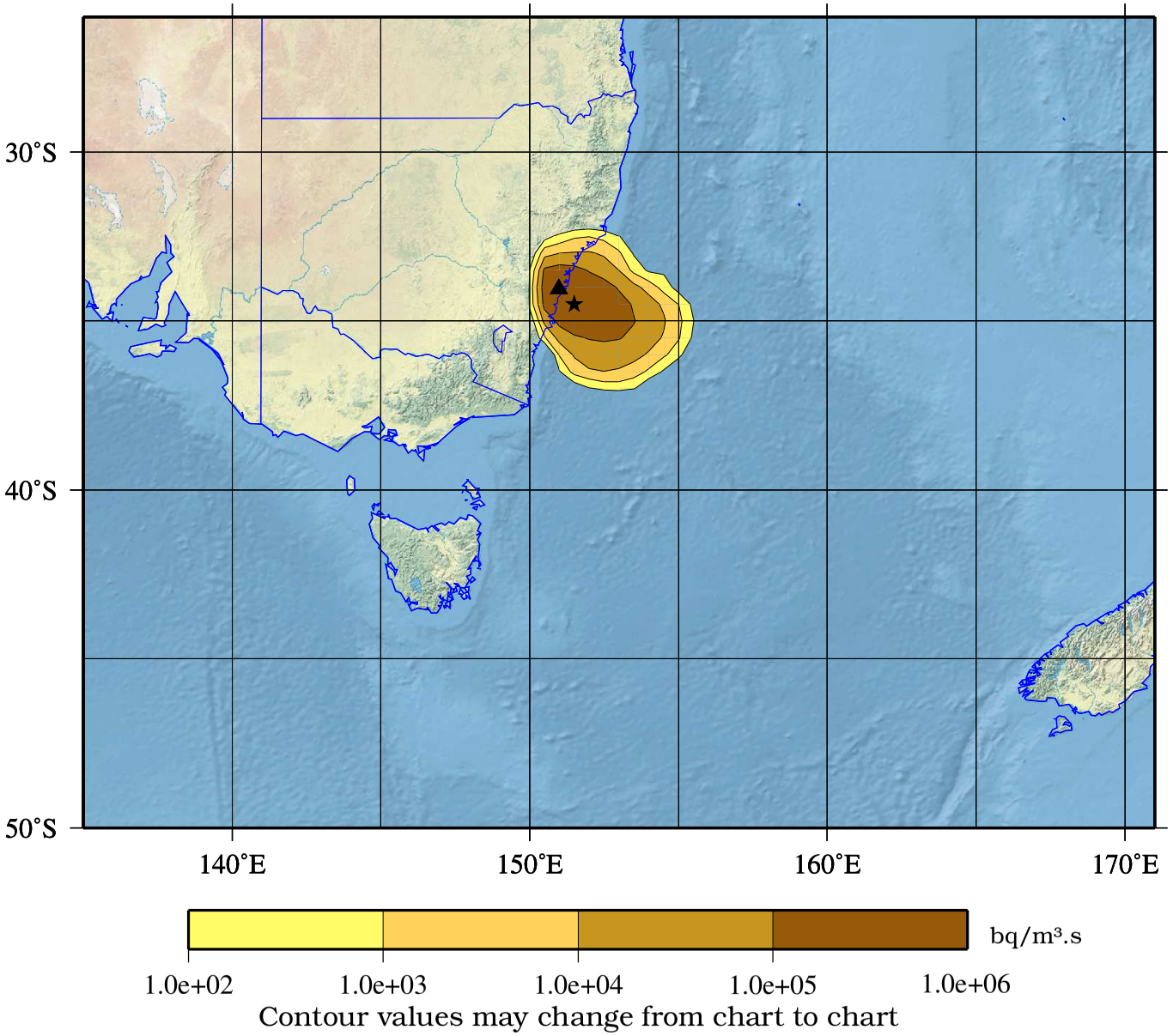
Release Time date : 06 UTC 21 May 2019
Release Location in decimal degrees : 34.05139S 150.97868E
Location name (if known) : LUCAS_HEIGHTS
Emission duration : 06h00
Emission (per hour) : 9399996000.0000 bq
Substance released : I-131
Vertical distribution : Uniform 10 - 500 m (AGL)
Meteorological Model : 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

LUCAS HEIGHTS Exercise 21/05/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 18 hours
valid 22/05/2019 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : LUCAS HEIGHTS
Emission start : 21/05/2019 06h00 UTC
Release duration : 06h00
Lat : 34.0514 S ; 34º3'5" S
Lon : 150.97868 E ; 150º58'43" E
Emission rate : 9.3e+13 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/05/2019 12UTC

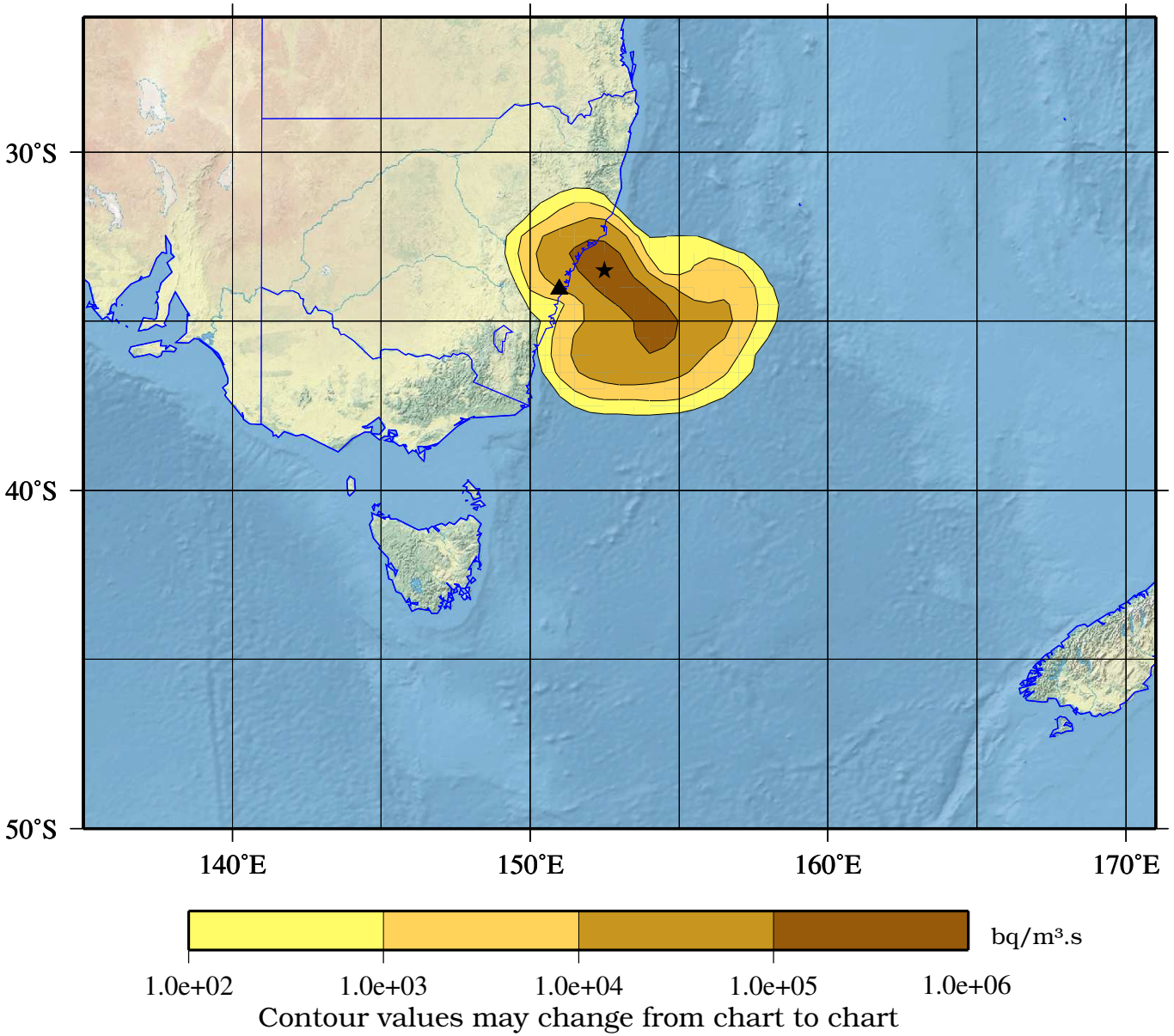
Max value for current step :
970510 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/05/2019 08:54:08 UTC

LUCAS HEIGHTS Exercise 21/05/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 23/05/2019 00h00 UTC



Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : LUCAS HEIGHTS
Emission start : 21/05/2019 06h00 UTC
Release duration : 06h00
Lat : 34.0514 S ; 34º3'5" S
Lon : 150.97868 E ; 150º58'43" E
Emission rate : 9.3e+13 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
20/05/2019 12UTC

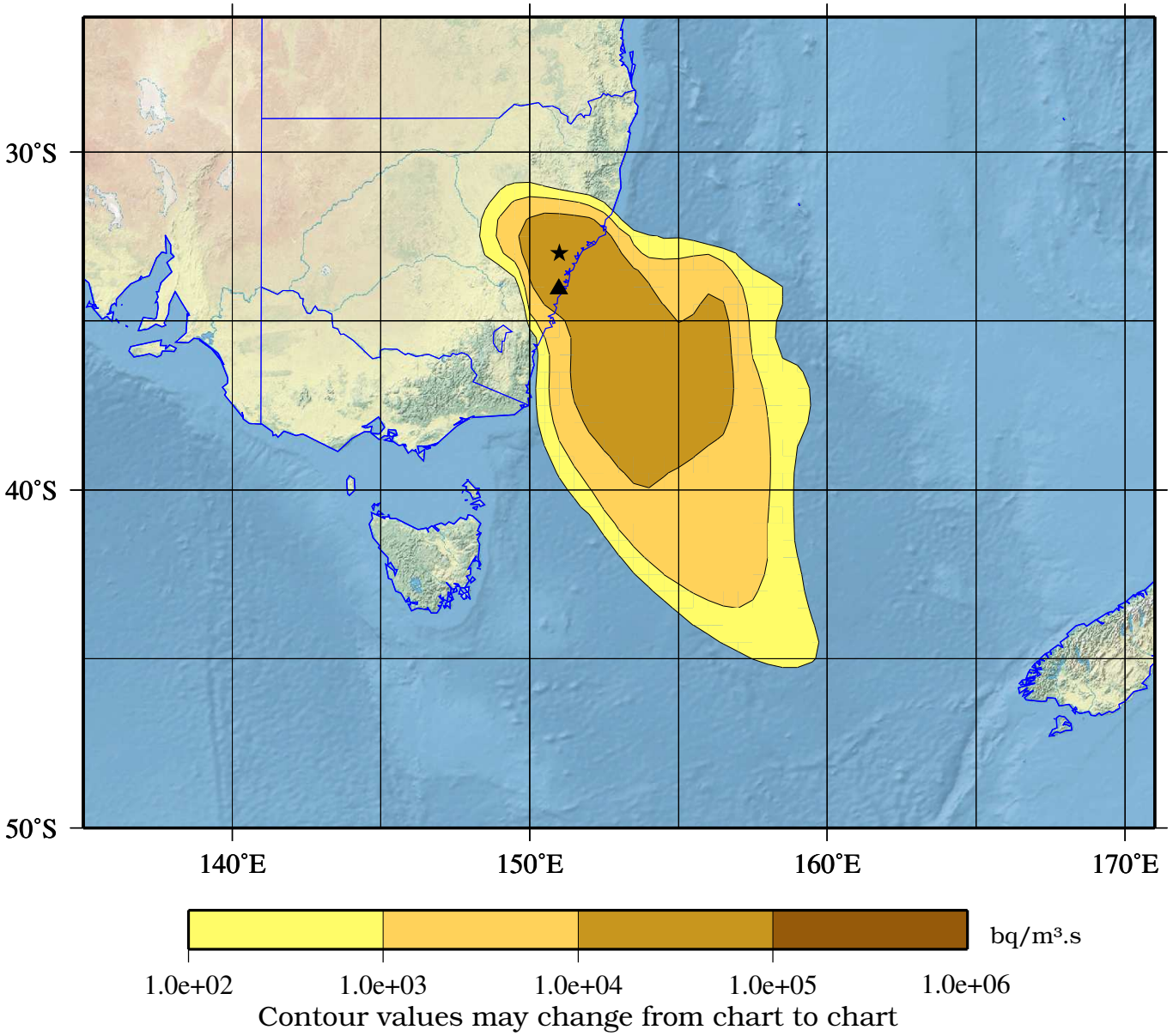
Max value for current step :
245471 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/05/2019 08:54:08 UTC

LUCAS HEIGHTS Exercise 21/05/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 24/05/2019 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : LUCAS HEIGHTS
Emission start : 21/05/2019 06h00 UTC
Release duration : 06h00
Lat : 34.0514 S ; 34º3'5" S
Lon : 150.97868 E ; 150º58'43" E
Emission rate : 9.3e+13 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/05/2019 12UTC

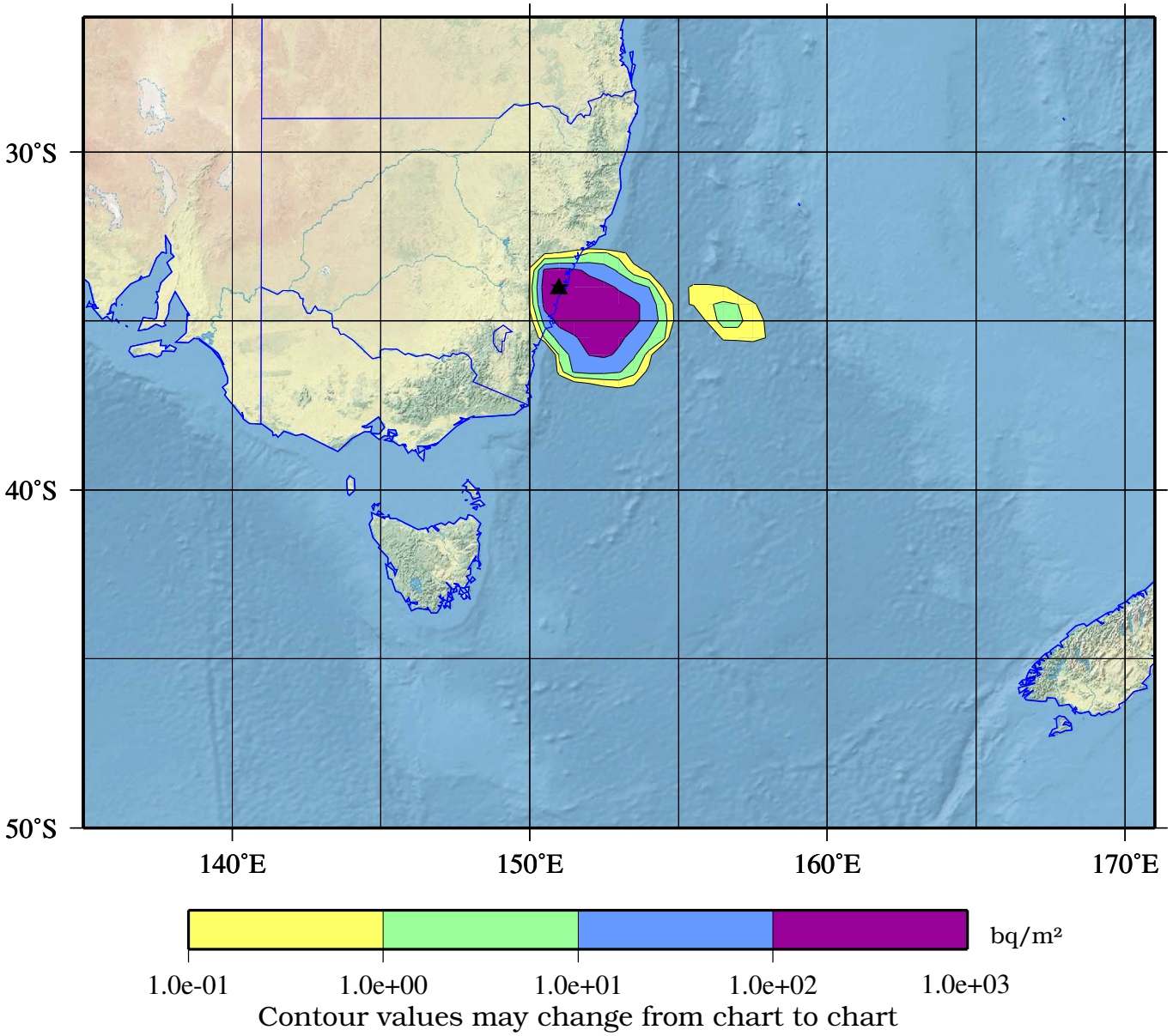
Max value for current step :
97274.7 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/05/2019 08:54:08 UTC

LUCAS HEIGHTS Exercise 21/05/2019

Total deposition (bq/m²)
from release start
valid 22/05/2019 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : LUCAS HEIGHTS
Emission start : 21/05/2019 06h00 UTC
Release duration : 06h00
Lat : 34.0514 S ; 34º3'5" S
Lon : 150.97868 E ; 150º58'43" E
Emission rate : 9.3e+13 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/05/2019 12UTC

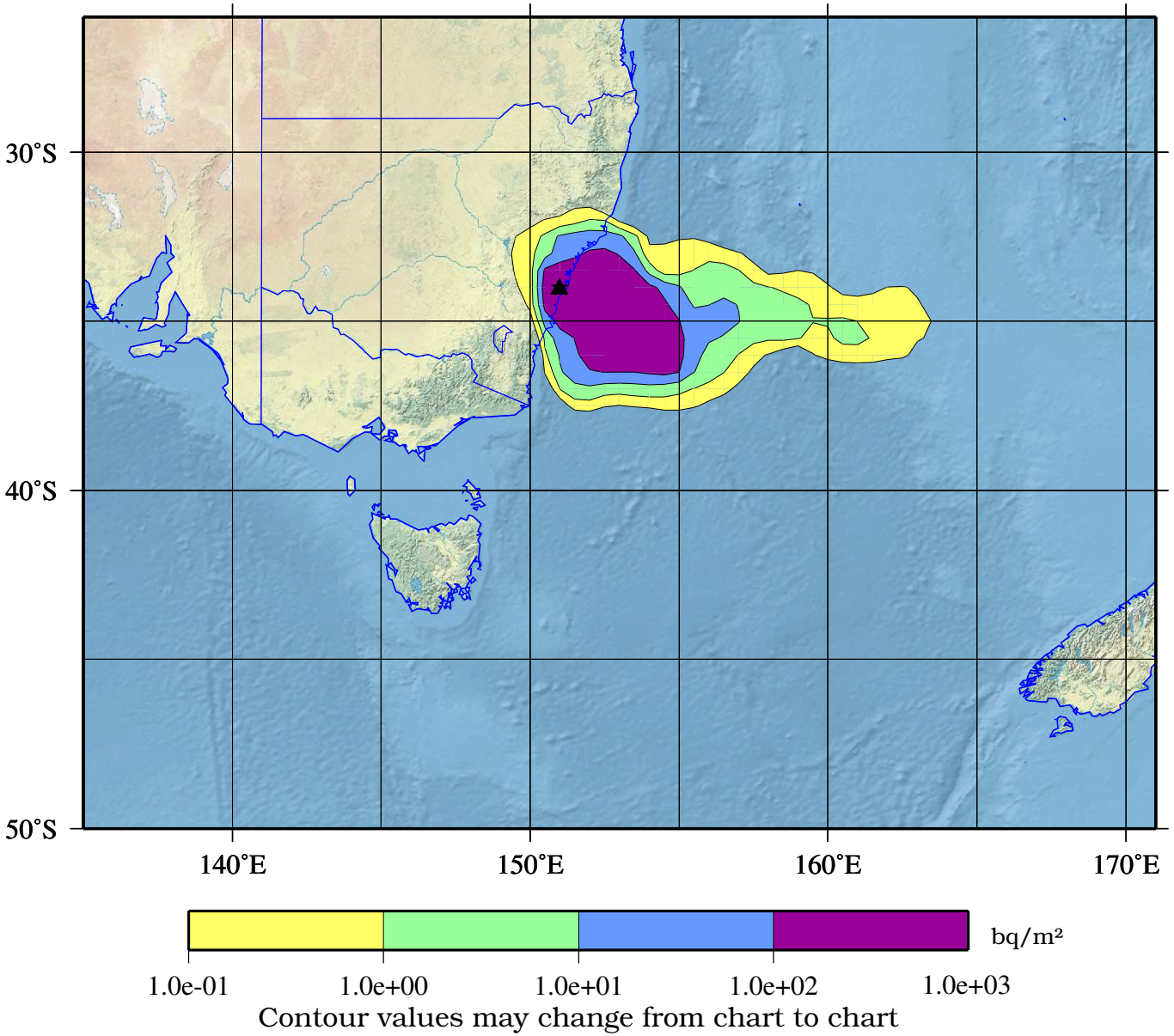
Max value for current step :
944.061 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/05/2019 08:54:08 UTC

LUCAS HEIGHTS Exercise 21/05/2019

Total deposition (bq/m²)
from release start
valid 23/05/2019 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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Site : LUCAS HEIGHTS
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Release duration : 06h00
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Lon : 150.97868 E ; 150º58'43" E
Emission rate : 9.3e+13 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/05/2019 12UTC

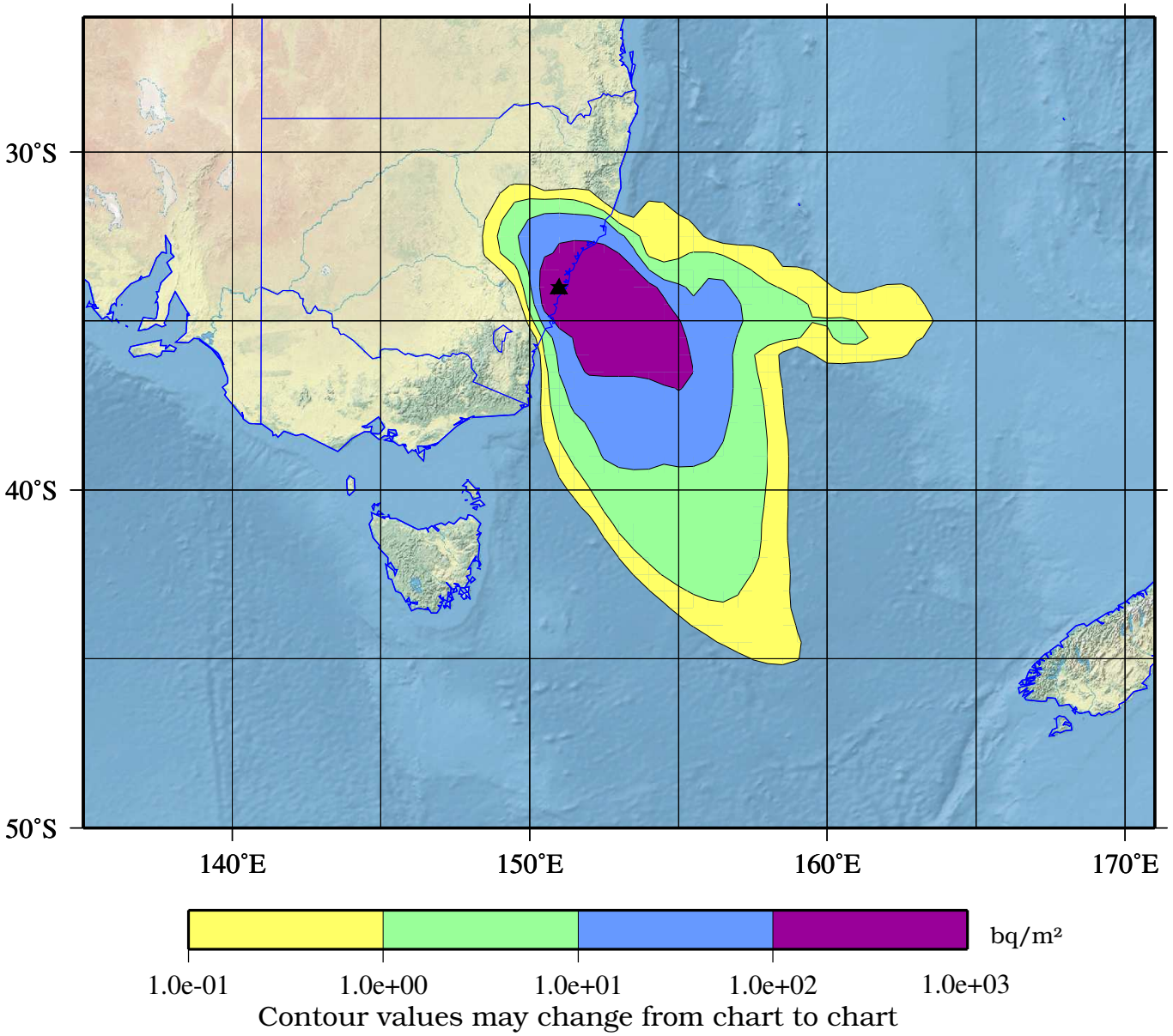
Max value for current step :
959.821 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/05/2019 08:54:08 UTC

LUCAS HEIGHTS Exercise 21/05/2019

Total deposition (bq/m²)
from release start
valid 24/05/2019 00h00 UTC



Contour values may change from chart to chart

Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : LUCAS HEIGHTS
Emission start : 21/05/2019 06h00 UTC
Release duration : 06h00
Lat : 34.0514 S ; 34º3'5" S
Lon : 150.97868 E ; 150º58'43" E
Emission rate : 9.3e+13 bq/h
Base : 10m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
20/05/2019 12UTC

Max value for current step :
979.911 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 21/05/2019 08:54:08 UTC