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 : 0942 UTC Date : 19 Nov 2019

<< TEST_EVENT TEST_EVENT TEST_EVENT >>

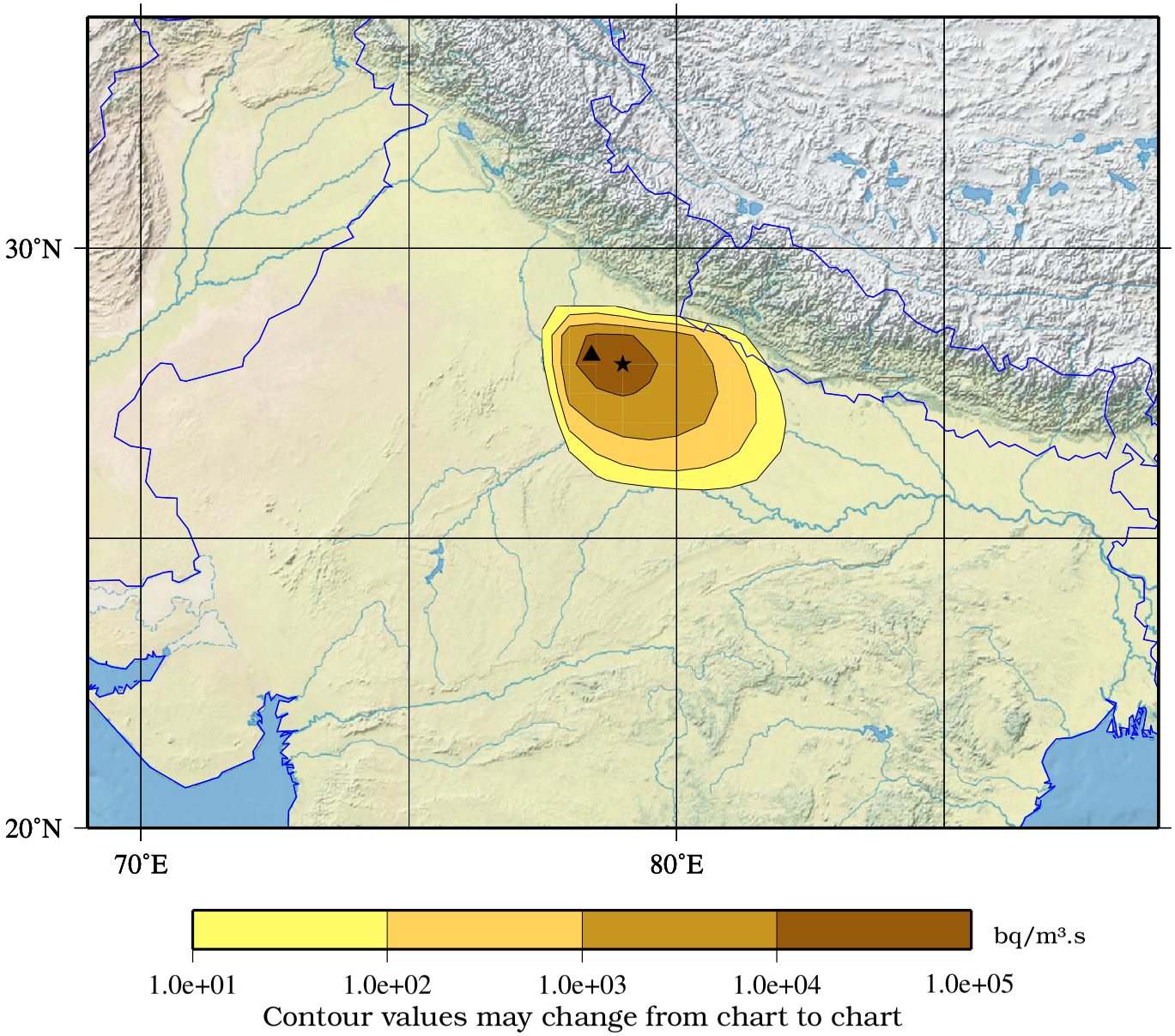
Release Time date : 07 UTC 19 Nov 2019
Release Location in decimal degrees : 28.15778N 78.40992E
Location name (if known) : NARORA
Emission duration : 12h20
Emission (per hour) : 8108100000.0000 bq
Substance released : I-131
Vertical distribution : Uniform 0 - 500 m (AGL)
Meteorological Model : ECMWF
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

NARORA Exercise 19/11/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 17 hours
valid 20/11/2019 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : NARORA
Emission start : 19/11/2019 07h40 UTC
Release duration : 12h
Lat : 28.15778 N ; 28º9'28" N
Lon : 78.40992 E ; 78º24'35" E
Emission rate : 8.3e+11 bq/h
Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/11/2019 00UTC

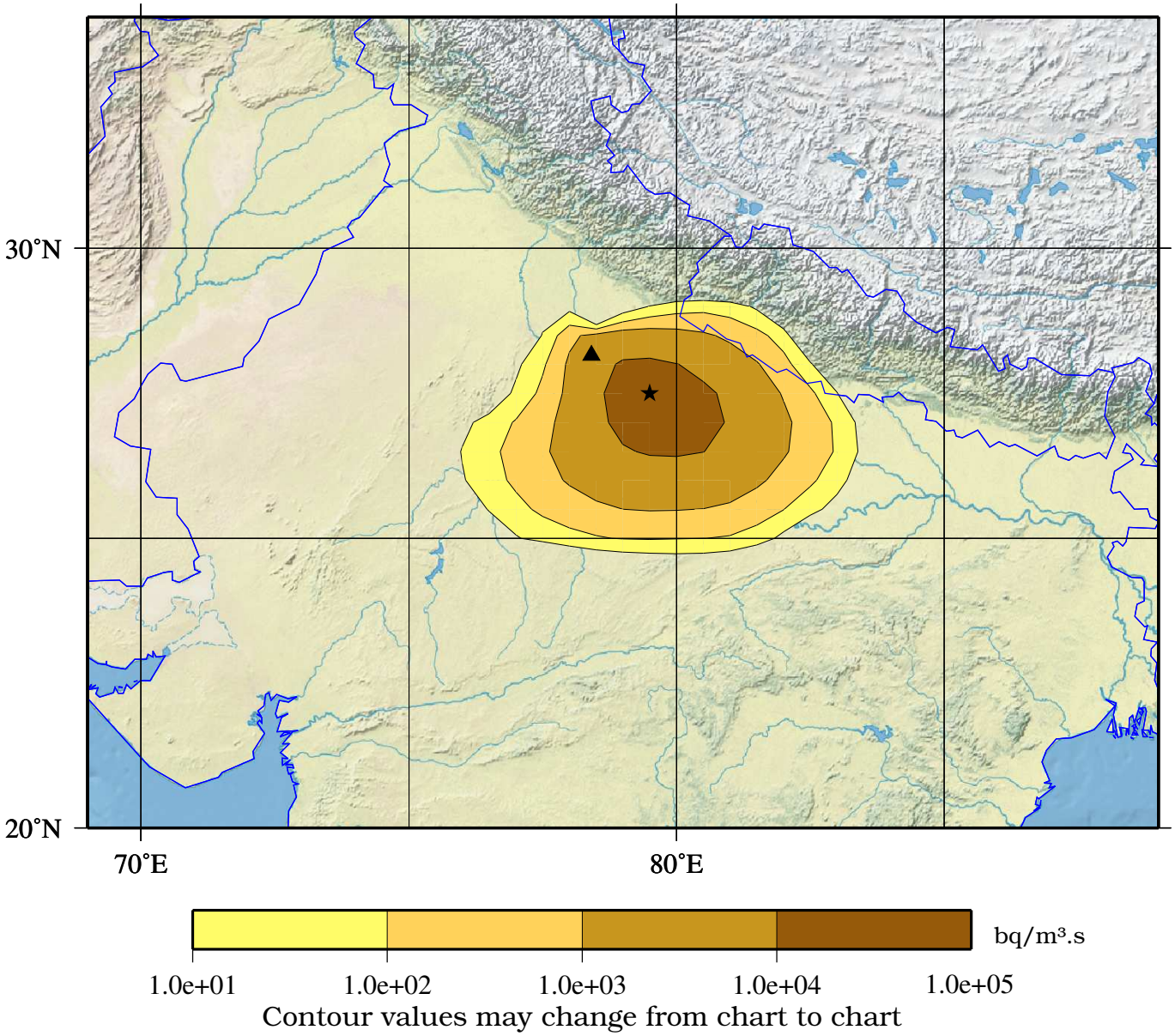
Max value for current step :
21727 bq/m³.s

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/11/2019 09:37:08 UTC

NARORA Exercise 19/11/2019

Time integrated concentration (bq/m³.s)
for surface to 500m layer over 24 hours
valid 21/11/2019 00h00 UTC



Dispersion model :
MOCAGE Accident
Meteo model : ECMWF

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RELEASE DATA
Site : NARORA
Emission start : 19/11/2019 07h40 UTC
Release duration : 12h
Lat : 28.15778 N ; 28º9'28" N
Lon : 78.40992 E ; 78º24'35" E
Emission rate : 8.3e+11 bq/h
Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA
Grid resolution : 0.5º
Init for meteo data
19/11/2019 00UTC

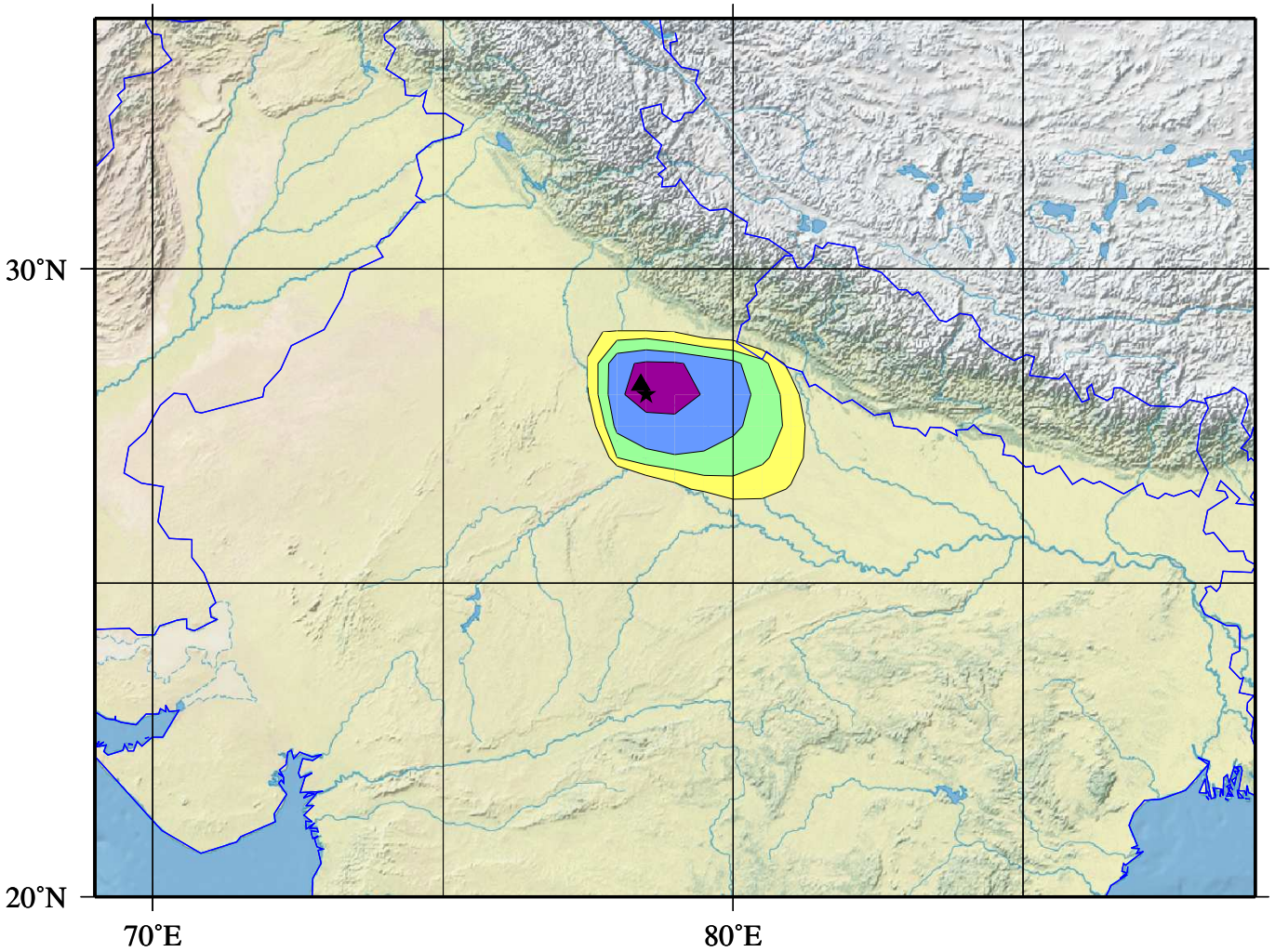
Max value for current step :
20230.2 bq/m³.s

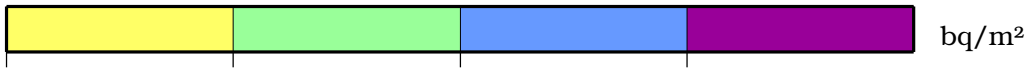
Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/11/2019 09:37:08 UTC

NARORA Exercise 19/11/2019

Total deposition (bq/m²)
from release start
valid 20/11/2019 00h00 UTC





Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : NARORA
Emission start : 19/11/2019 07h40 UTC
Release duration : 12h
Lat : 28.15778 N ; 28º9'28" N
Lon : 78.40992 E ; 78º24'35" E
Emission rate : 8.3e+11 bq/h
Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
19/11/2019 00UTC

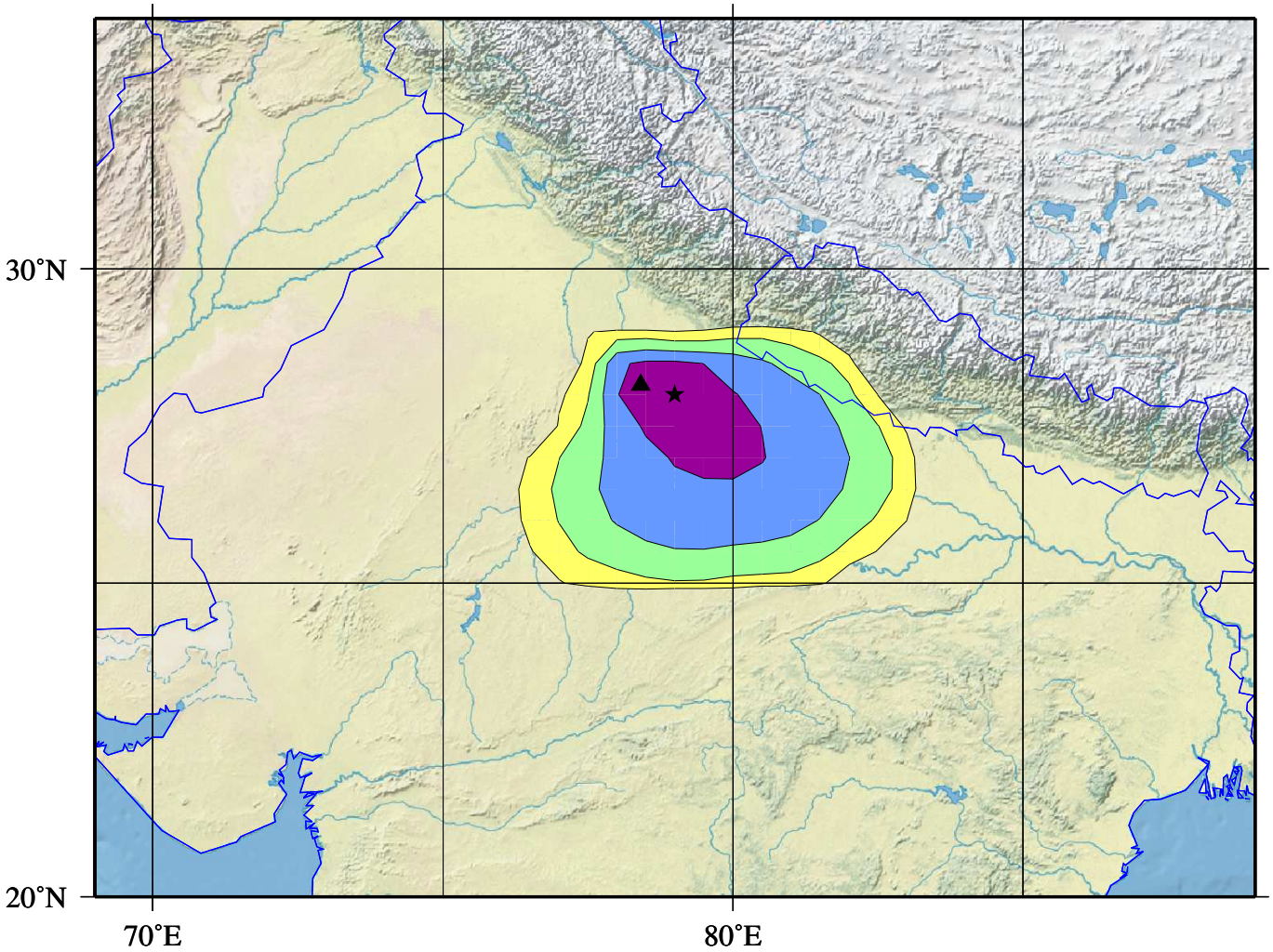
Max value for current step :
19.4536 bq/m²

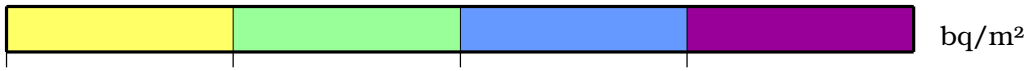
Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/11/2019 09:37:08 UTC

NARORA Exercise 19/11/2019

Total deposition (bq/m²)
from release start
valid 21/11/2019 00h00 UTC





Contour values may change from chart to chart

Dispersion model : MOCAGE Accident

Meteo model : ECMWF

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RELEASE DATA

Site : NARORA
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Lat : 28.15778 N ; 28º9'28" N
Lon : 78.40992 E ; 78º24'35" E
Emission rate : 8.3e+11 bq/h
Base : 0m
Top : 500m
Released pollutant : I-131

MODEL DATA

Grid resolution : 0.5º
Init for meteo data
19/11/2019 00UTC

Max value for current step :
28.907 bq/m²

Max position ★
Source position ▲

METEO FRANCE
TOULOUSE RSMC
Issued 19/11/2019 09:37:08 UTC