

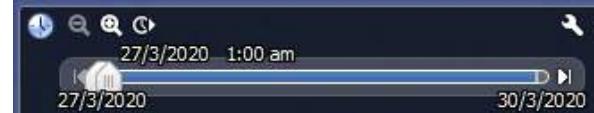
Modeling of a Hypothetical Major Nuclear Accident in Poland from 1096 Meteorological Situations and Analysis of Transboundary Environmental Impacts for European Countries and Their Inhabitants. 2021.

Risk in case of an hypothetical accident in a nuclear reactor located in the Zarnowiec-Kopalino area:

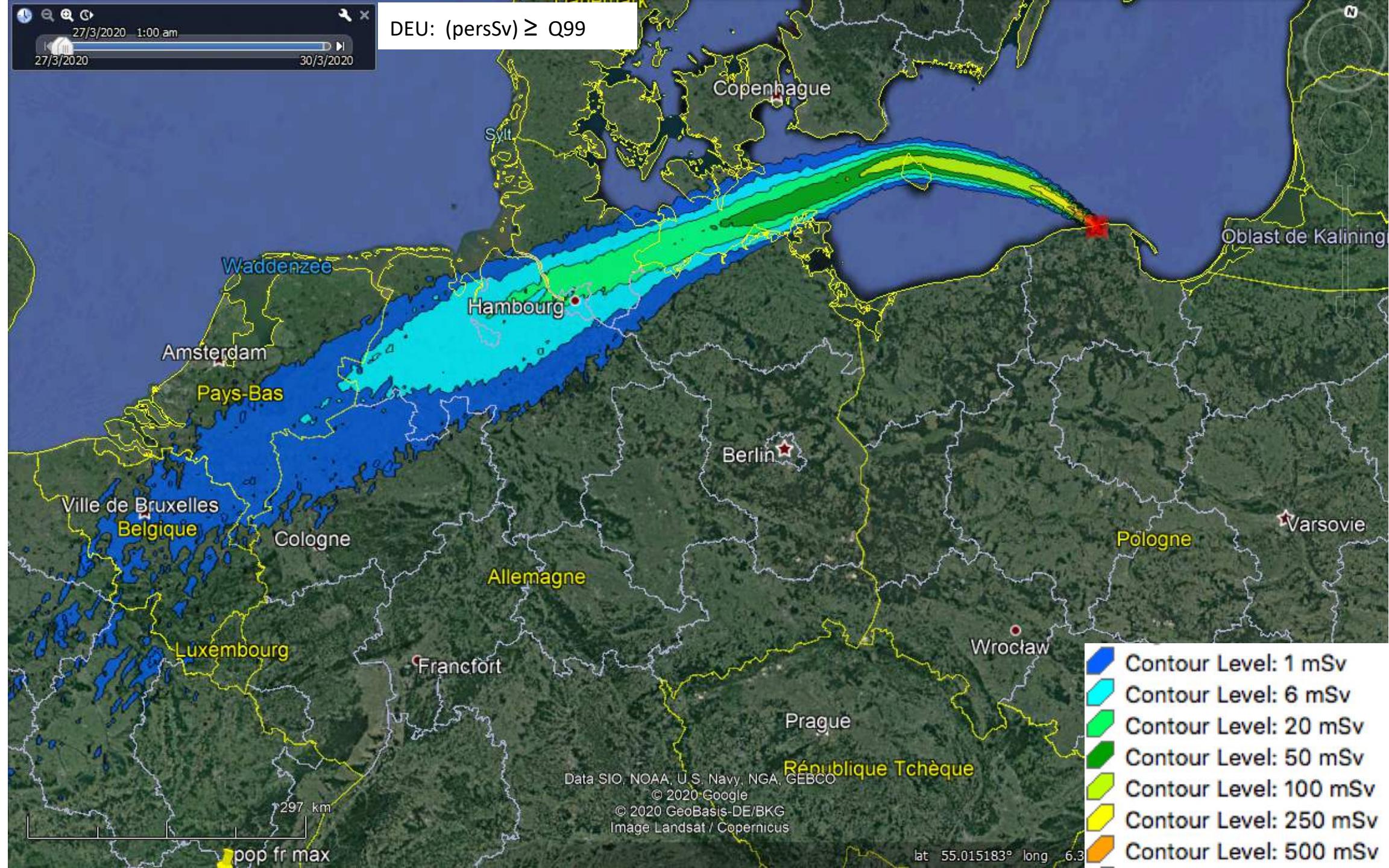
34 maps on transboundary pollution by radioactive elements. Maps are listed by regions and ranked by severity and quantiles ($\geq Q99$, $\geq Q95$, $\geq Q85$, ≥ 80)

DEU (Germany), KLL (Kalininr.-Obl. & Latvia & Lithuania), SDE (Sweden & Denmark), CSUB (Czechia & Slovakia & Ukraine & Belarus), POL (Poland).

Illustrations of the radioactive cloud are simulated over 48 hours (while calculation of the health impact comes from simulations over 72 hours).

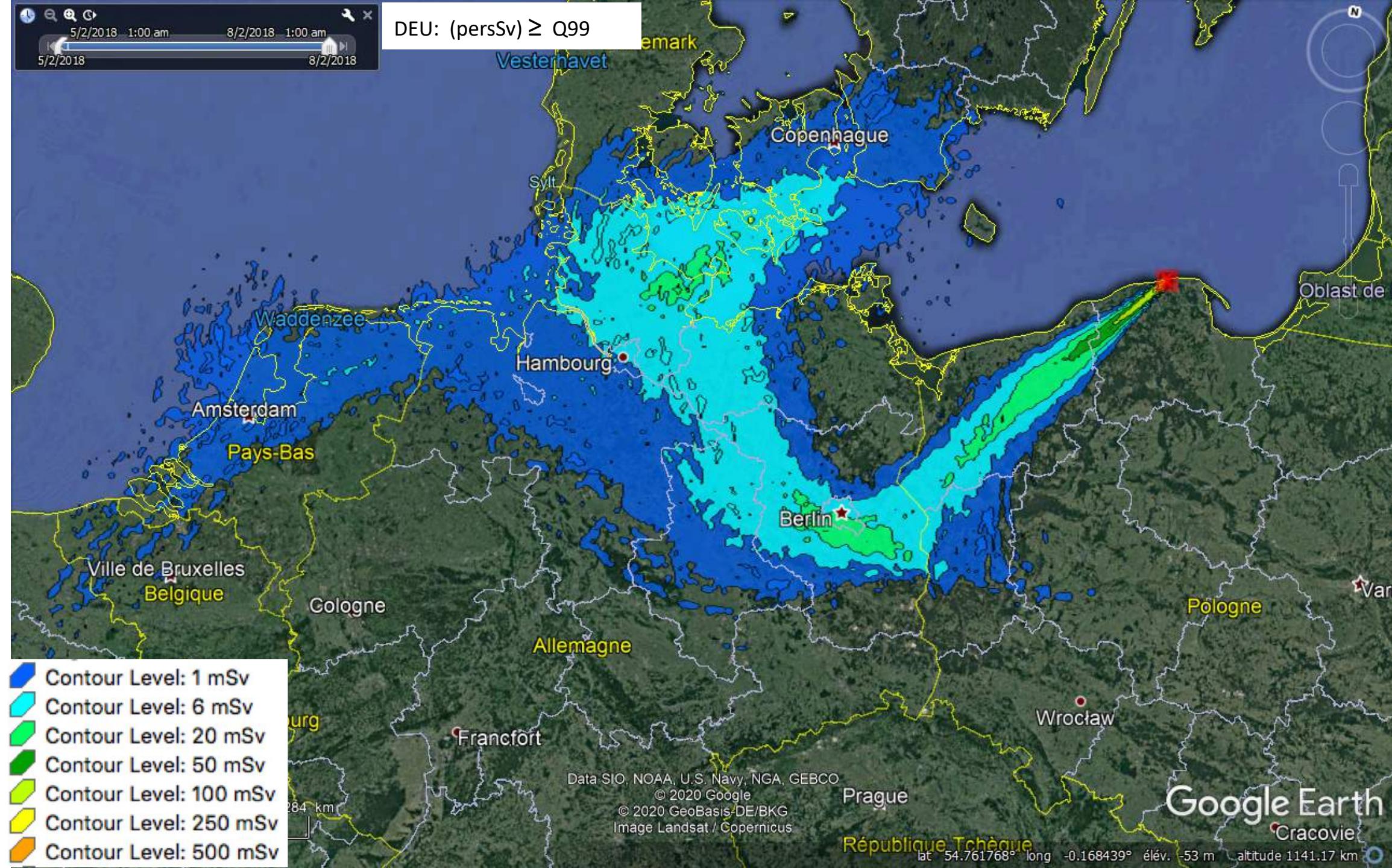


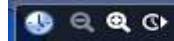
DEU: (persSv) \geq Q99



5/2/2018 1:00 am 8/2/2018 1:00 am
5/2/2018 8/2/2018

DEU: (persSv) \geq Q99

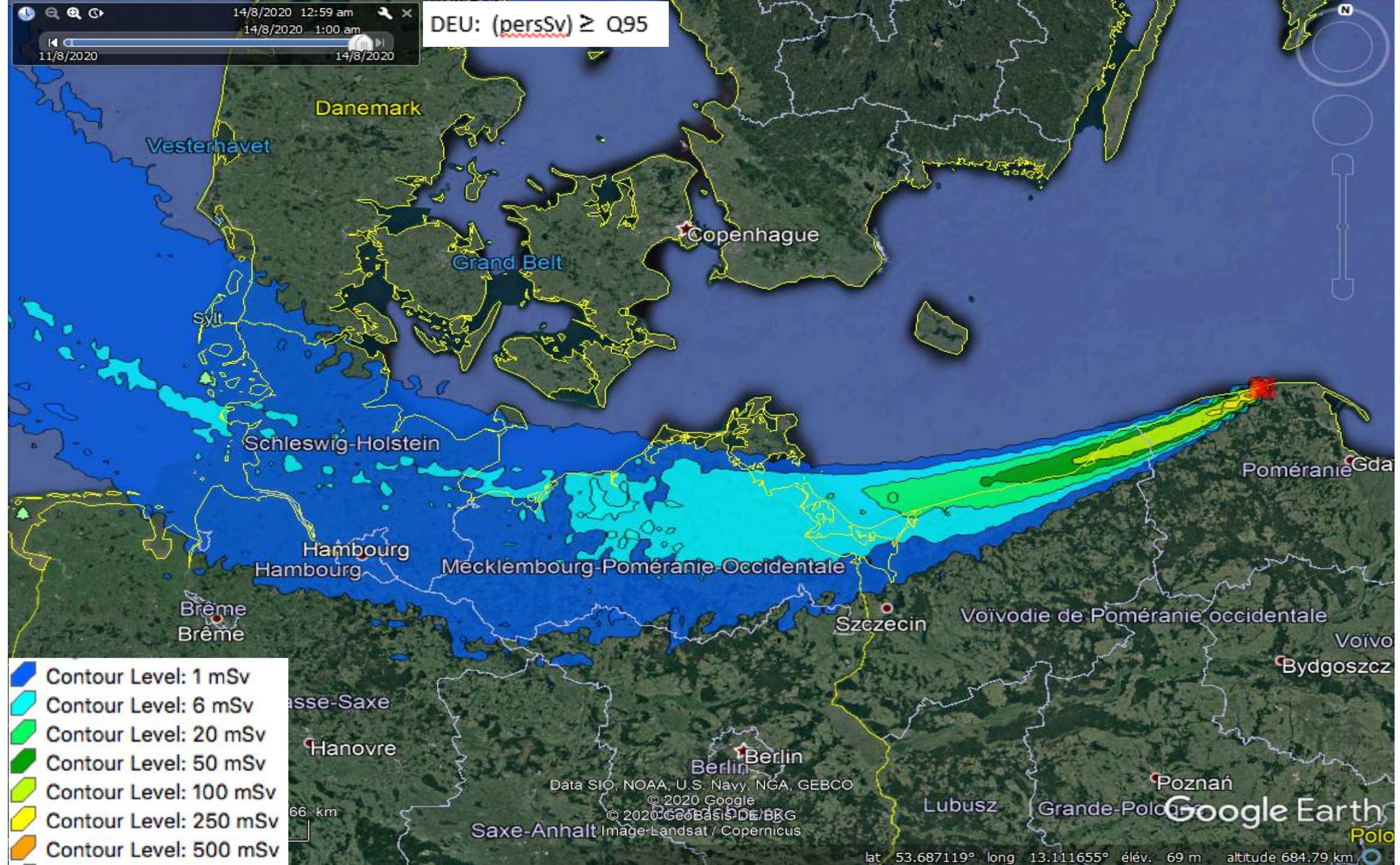


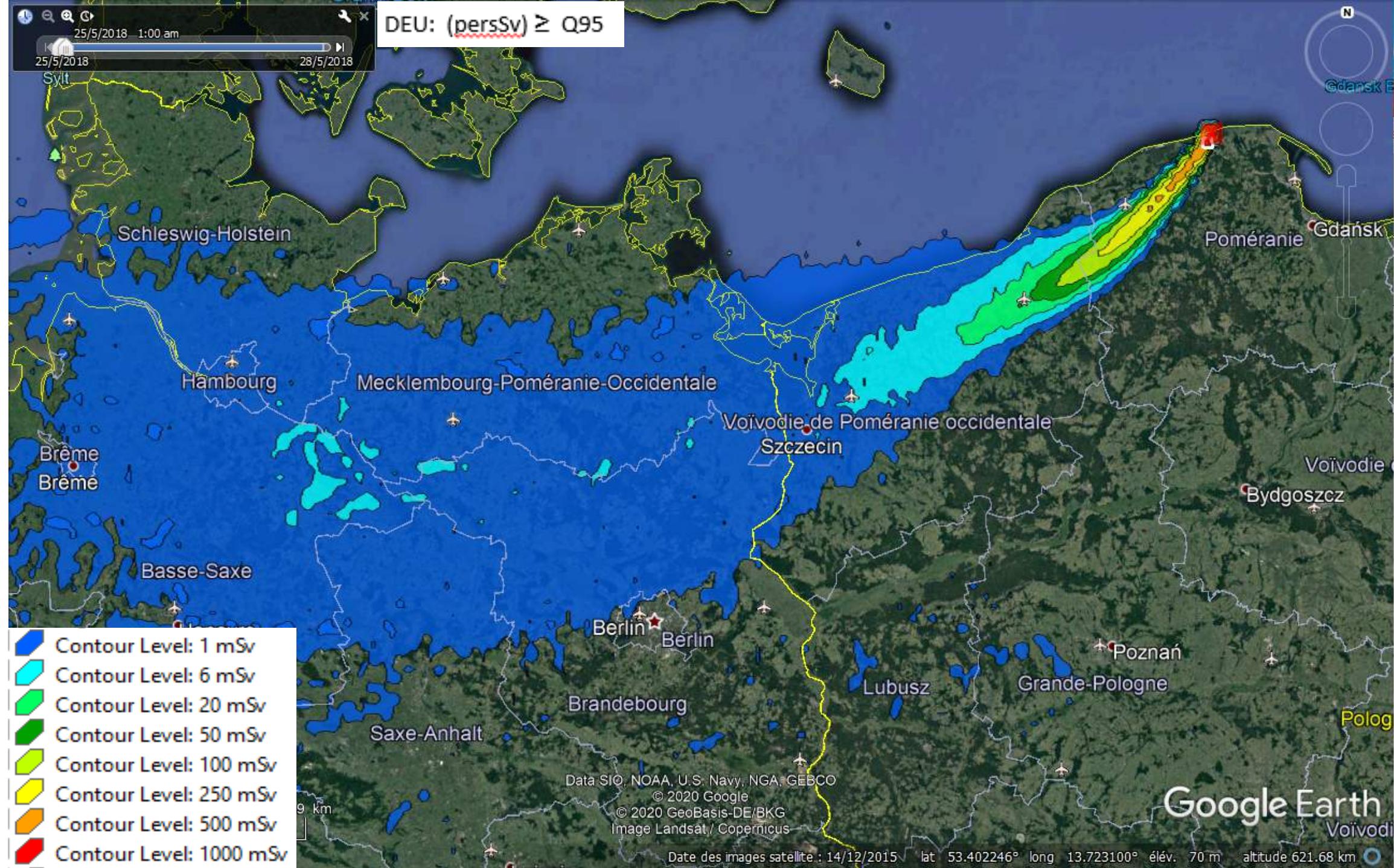
14/8/2020 12:59 am
14/8/2020 1:00 am

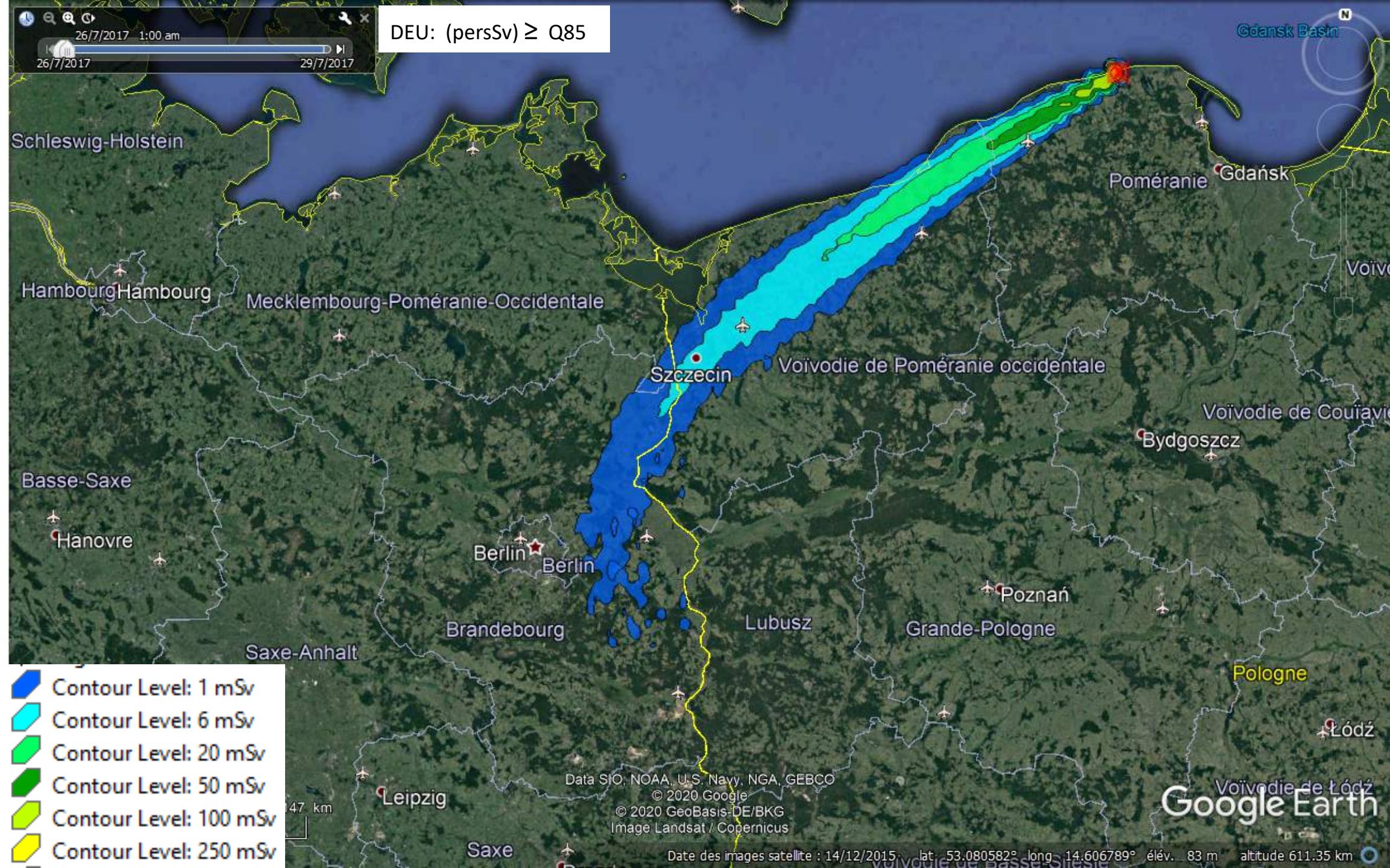
DEU: (persSv) ≥ Q95

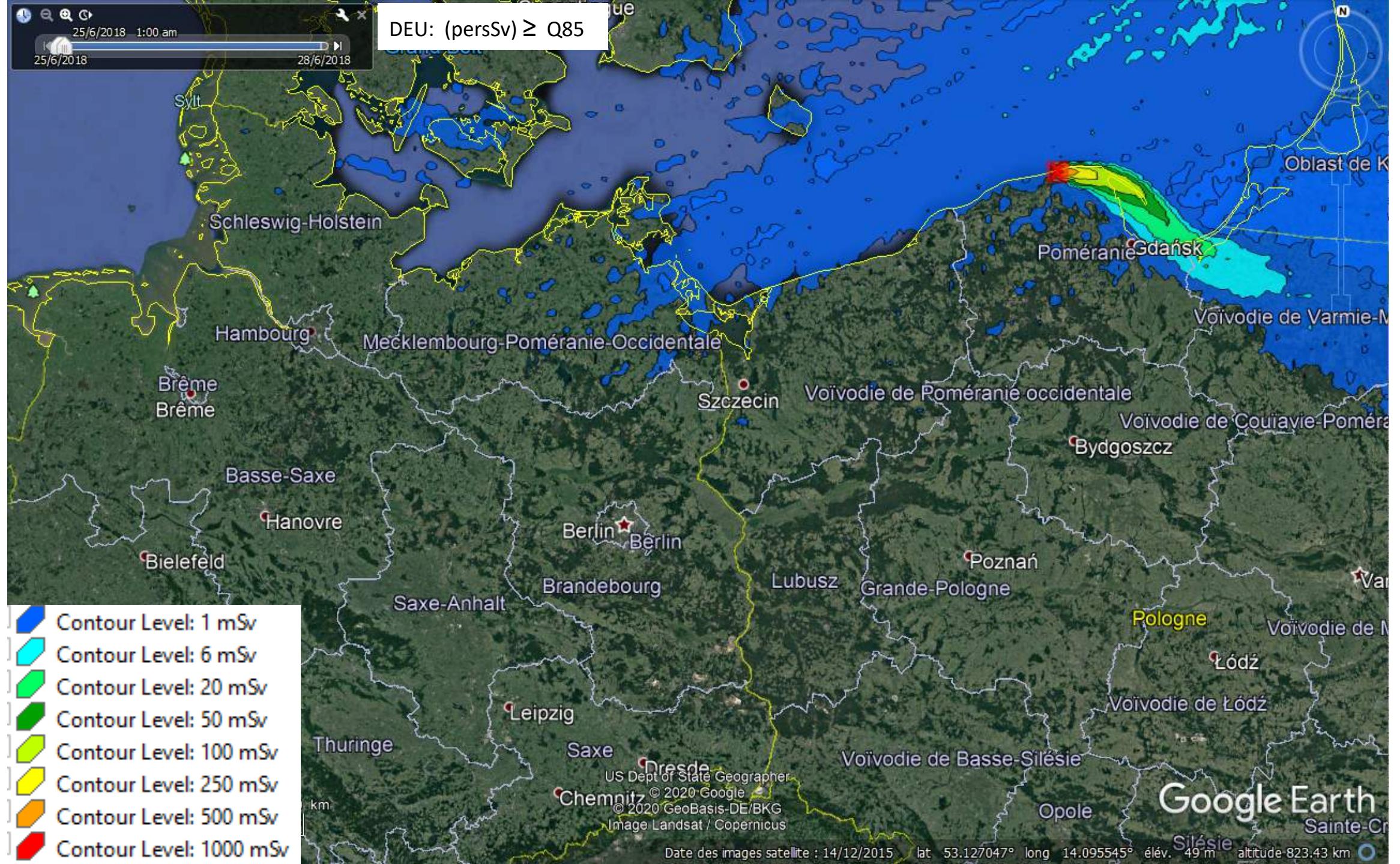
11/8/2020

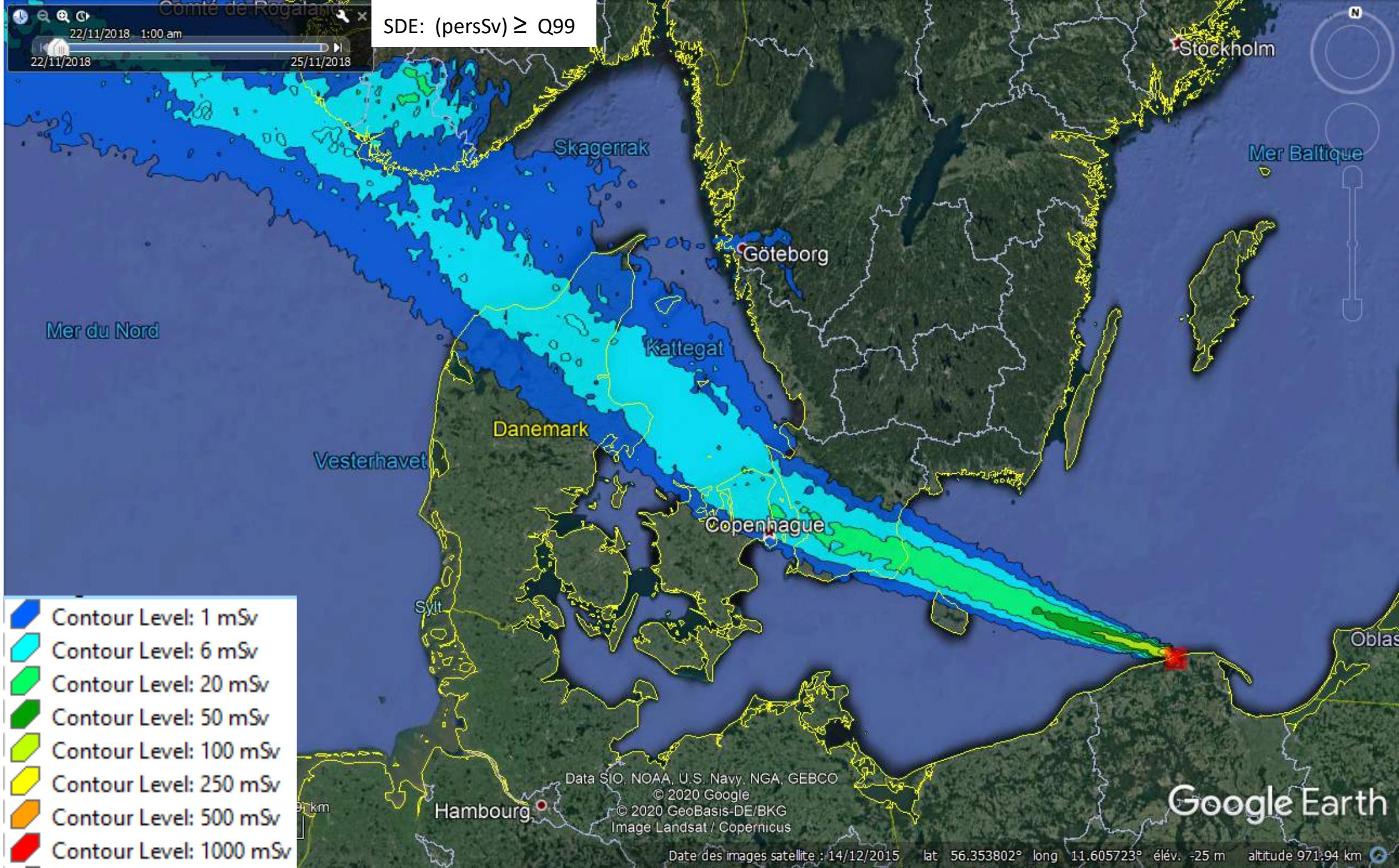
14/8/2020

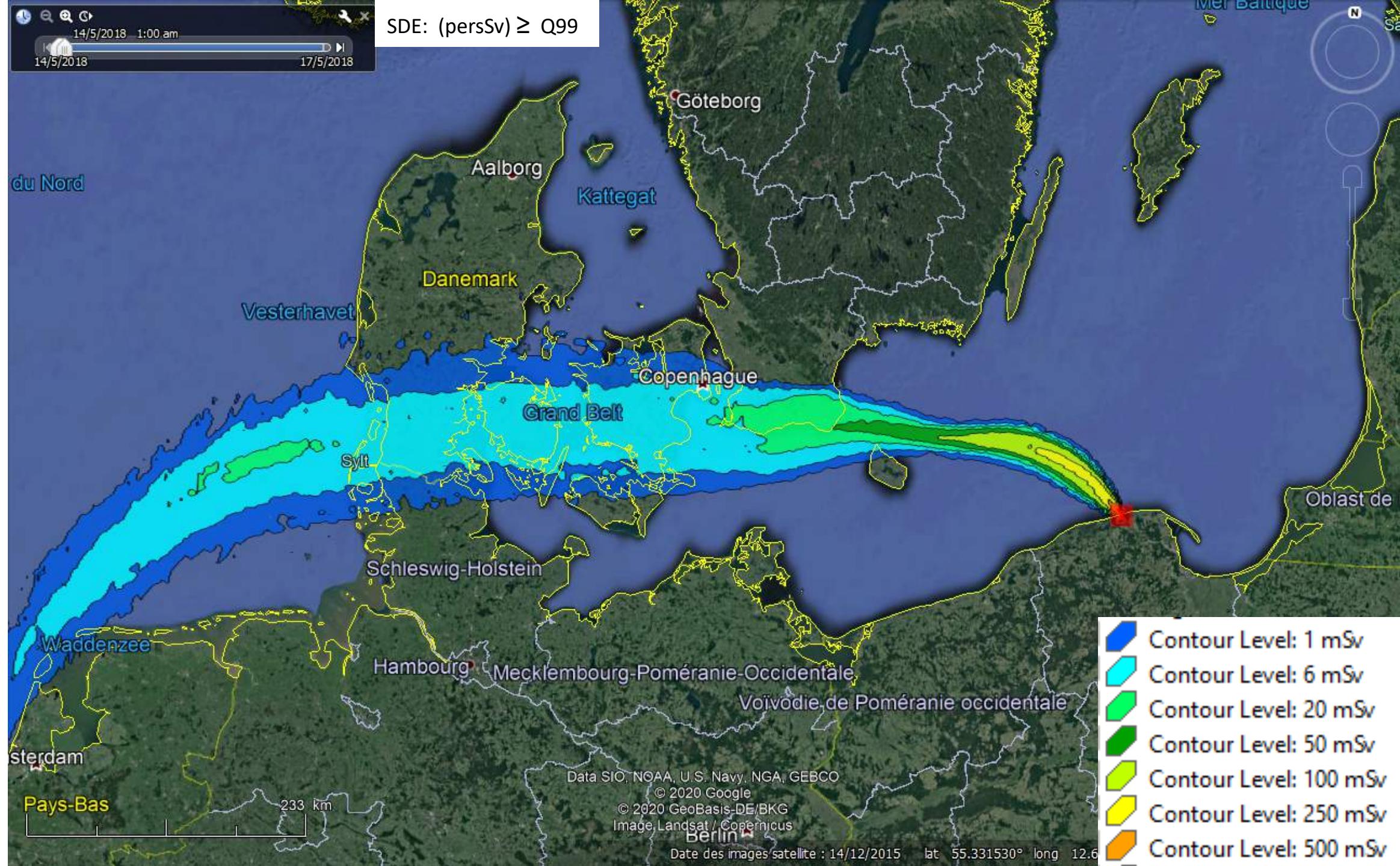


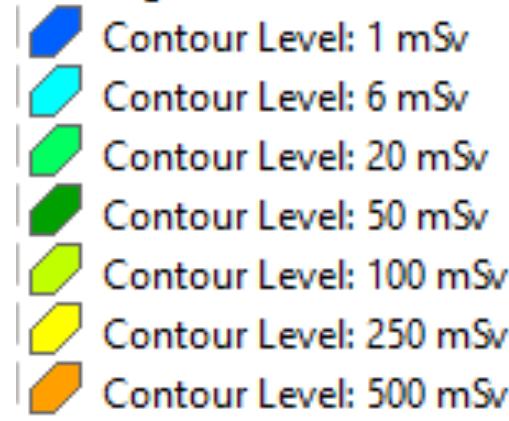
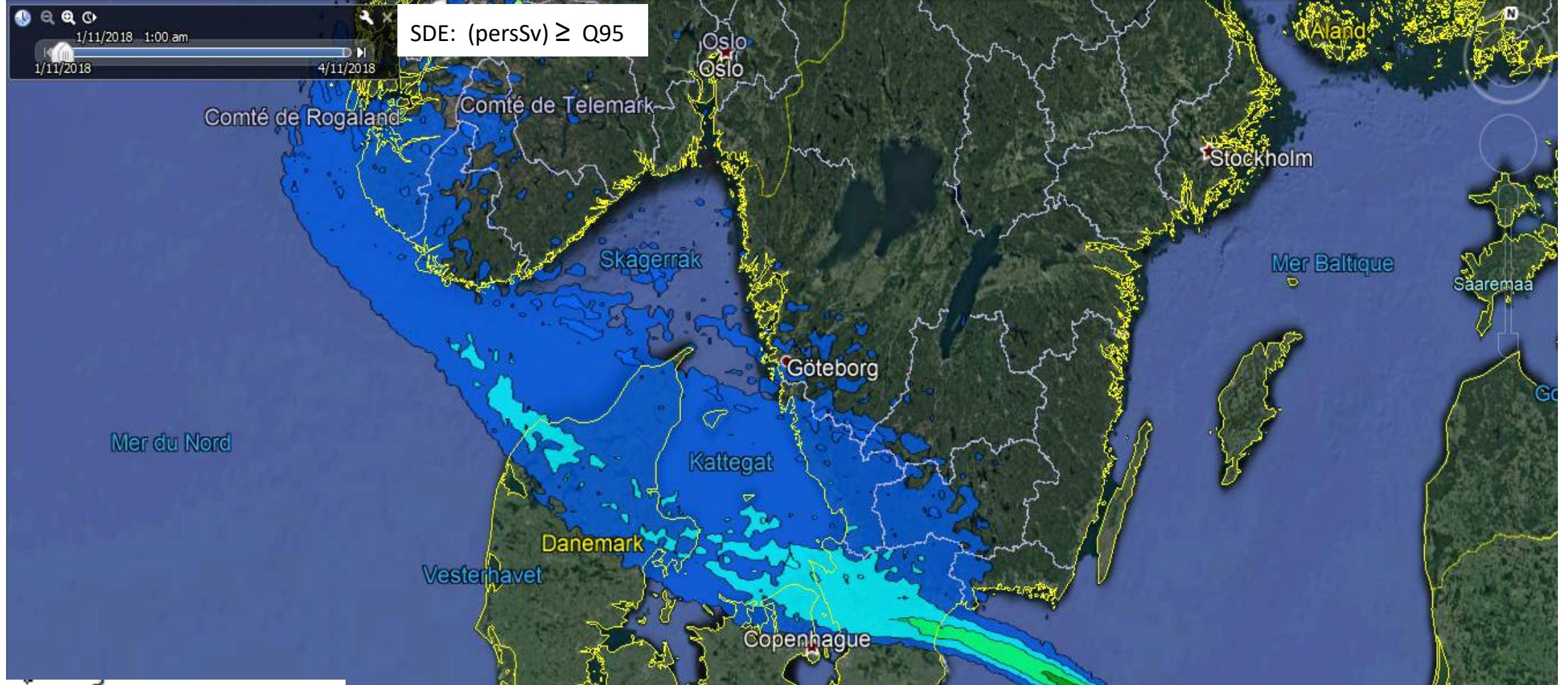












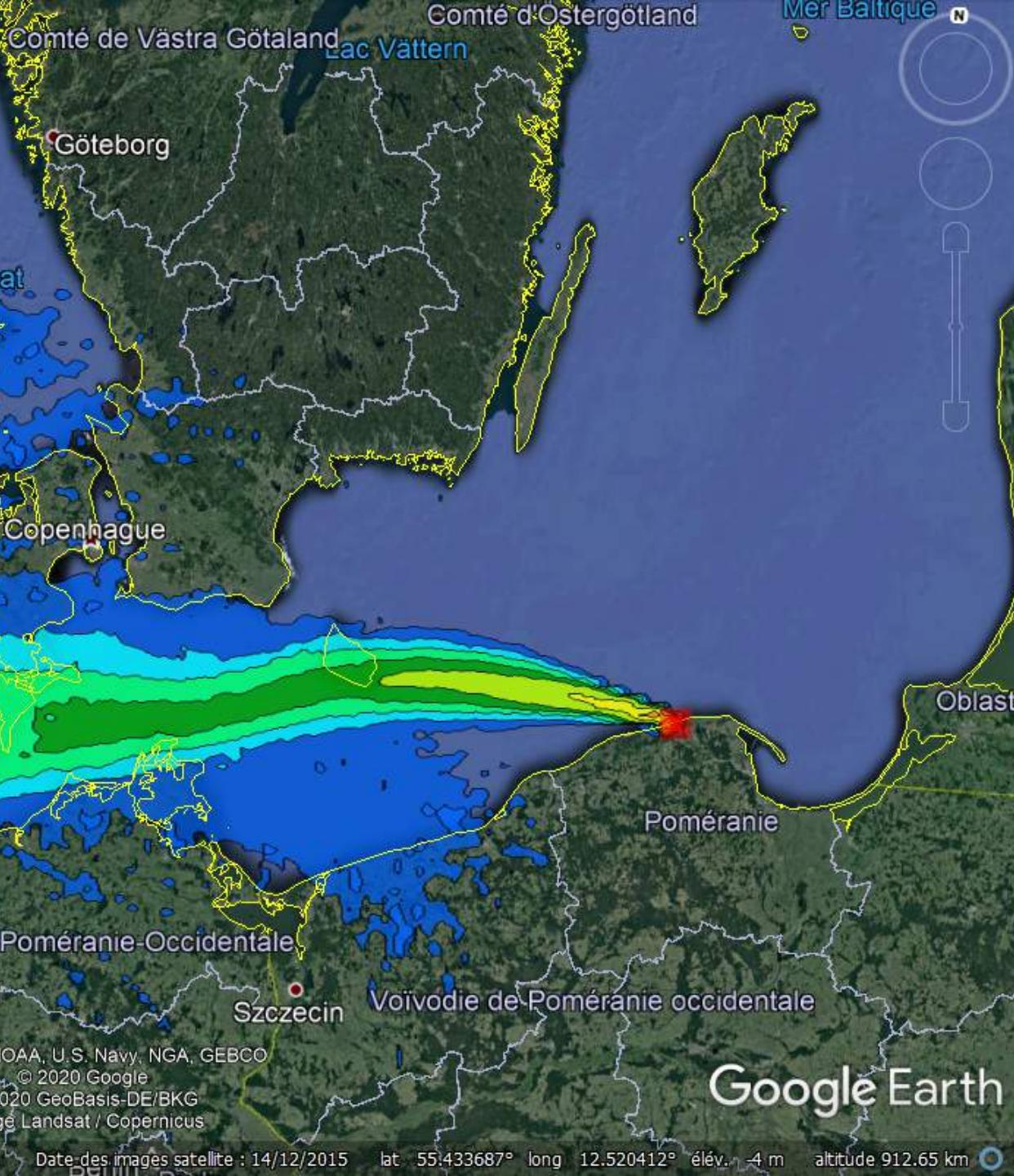
Data: SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2020 Google
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Image Landsat / Copernicus

Google Earth

lat 58.271668° long 4.491471° élév. -224 m altitude 1124.80 km



SDE: (persSv) \geq Q95



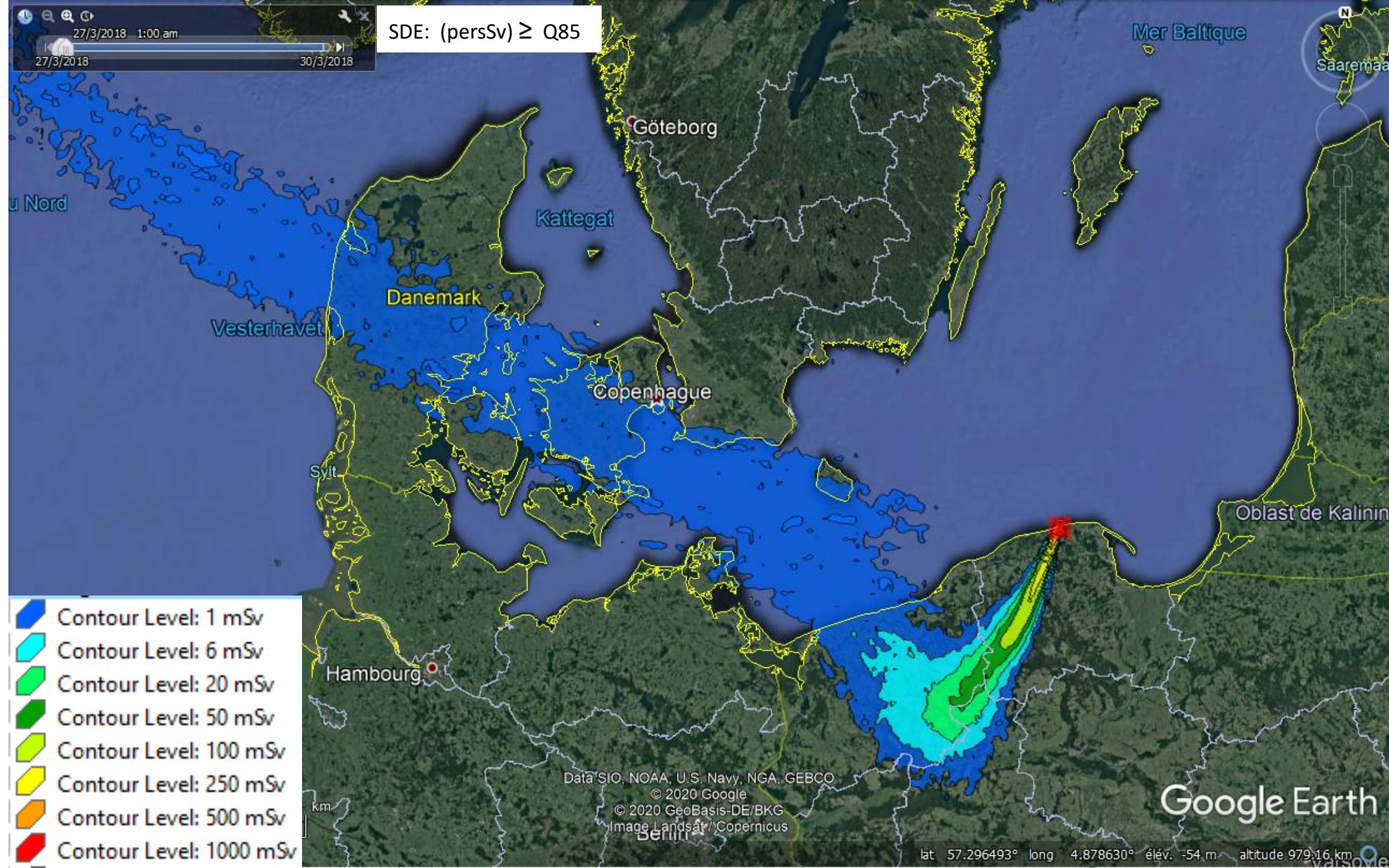
- Contour Level: 1 mSv
- Contour Level: 6 mSv
- Contour Level: 20 mSv
- Contour Level: 50 mSv
- Contour Level: 100 mSv
- Contour Level: 250 mSv
- Contour Level: 500 mSv
- Contour Level: 1000 mSv

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2020 Google
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Image Landsat / Copernicus

Google Earth

27/3/2018 1:00 am
27/3/2018 30/3/2018

SDE: (persSv) \geq Q85



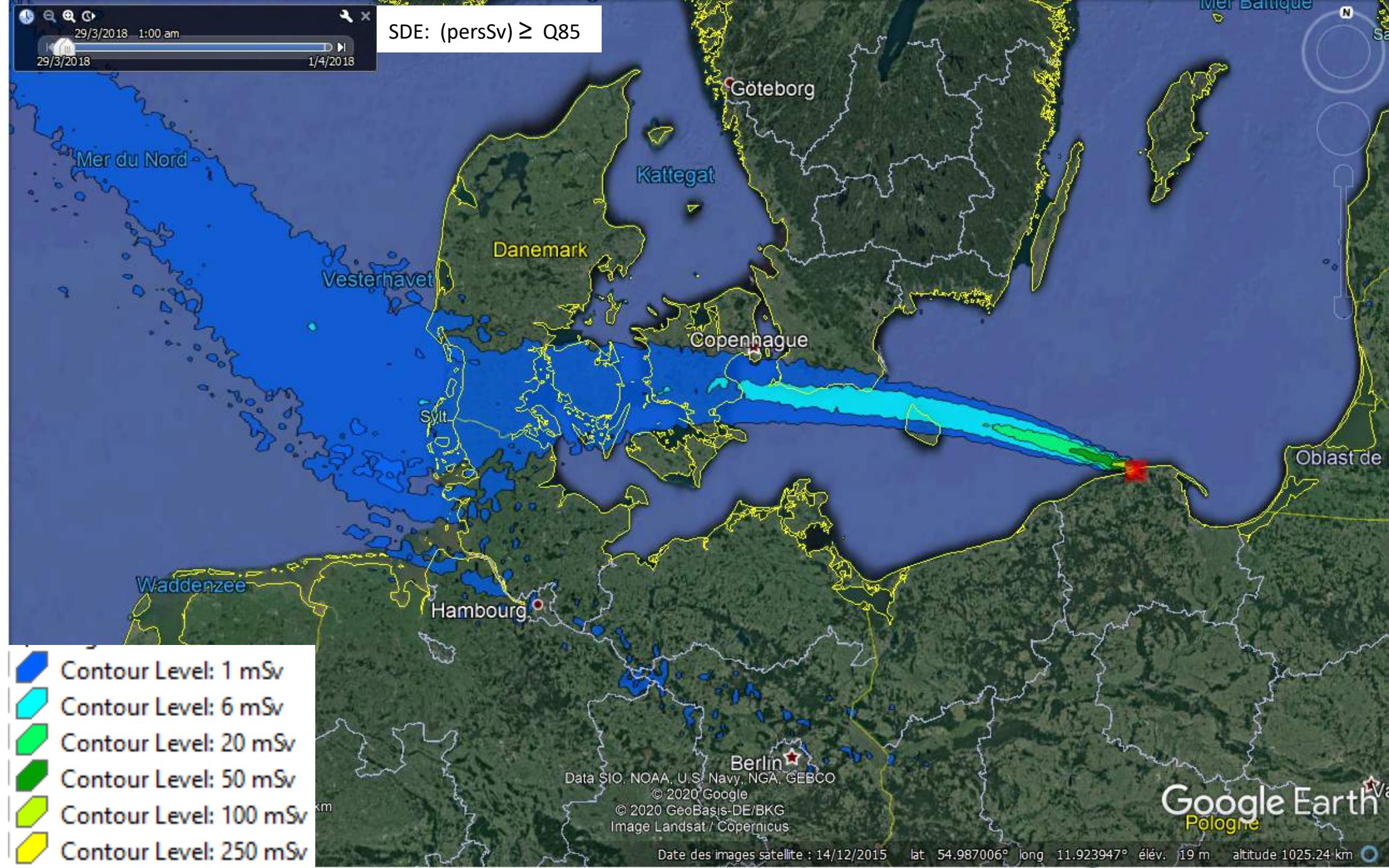
Data:SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2020 Google
© 2020 GeoBasis-DE/BKG
Image Landsat / Copernicus

lat 57.296493° long 4.878630° élév. -54.m altitude 979.16 km

Google Earth

29/3/2018 1:00 am
29/3/2018 1/4/2018

SDE: (persSv) \geq Q85



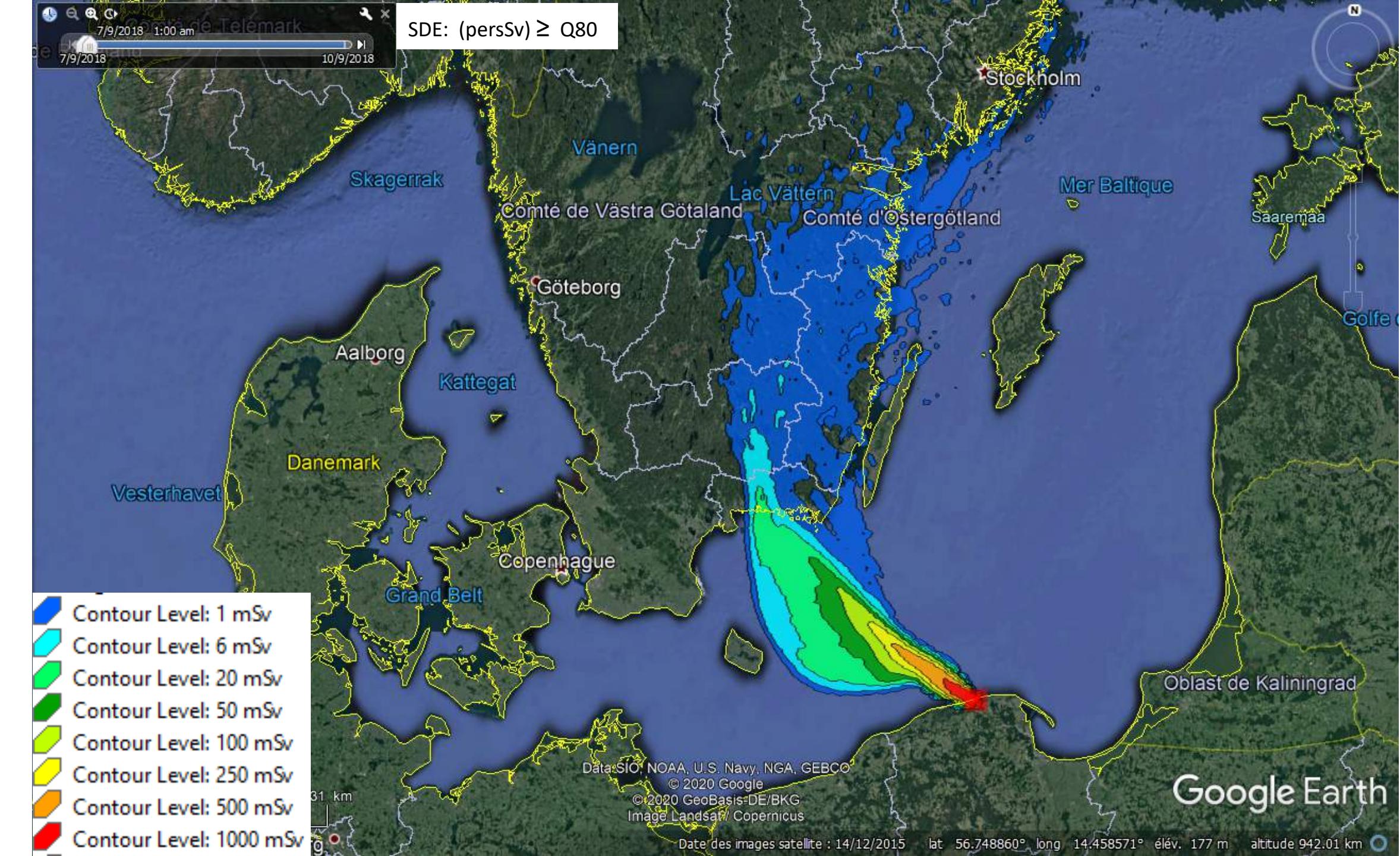
SDE: (persSv) ≥ Q80

7/9/2018 1:00 am

10/9/2018

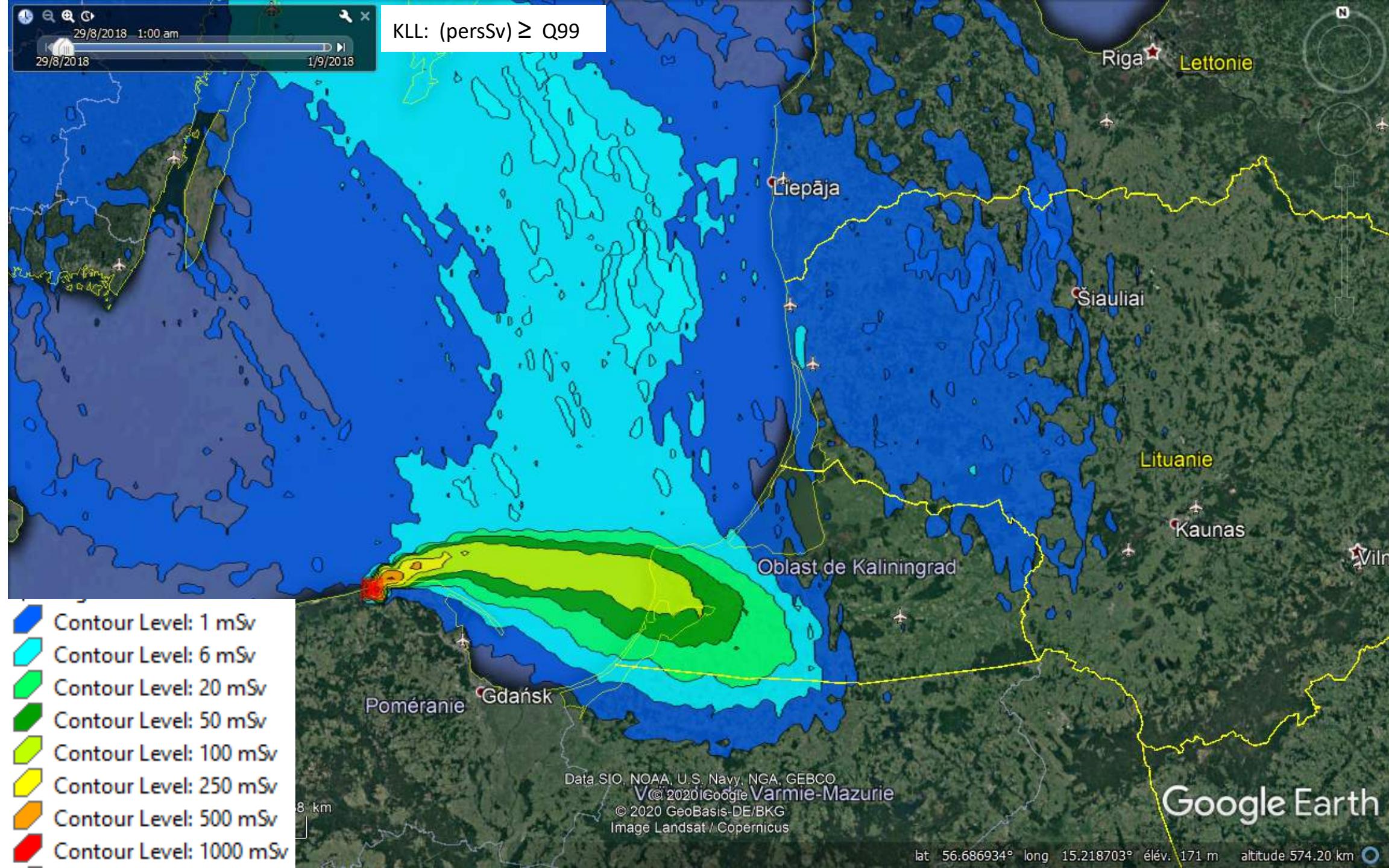
de Telemark

7/9/2018



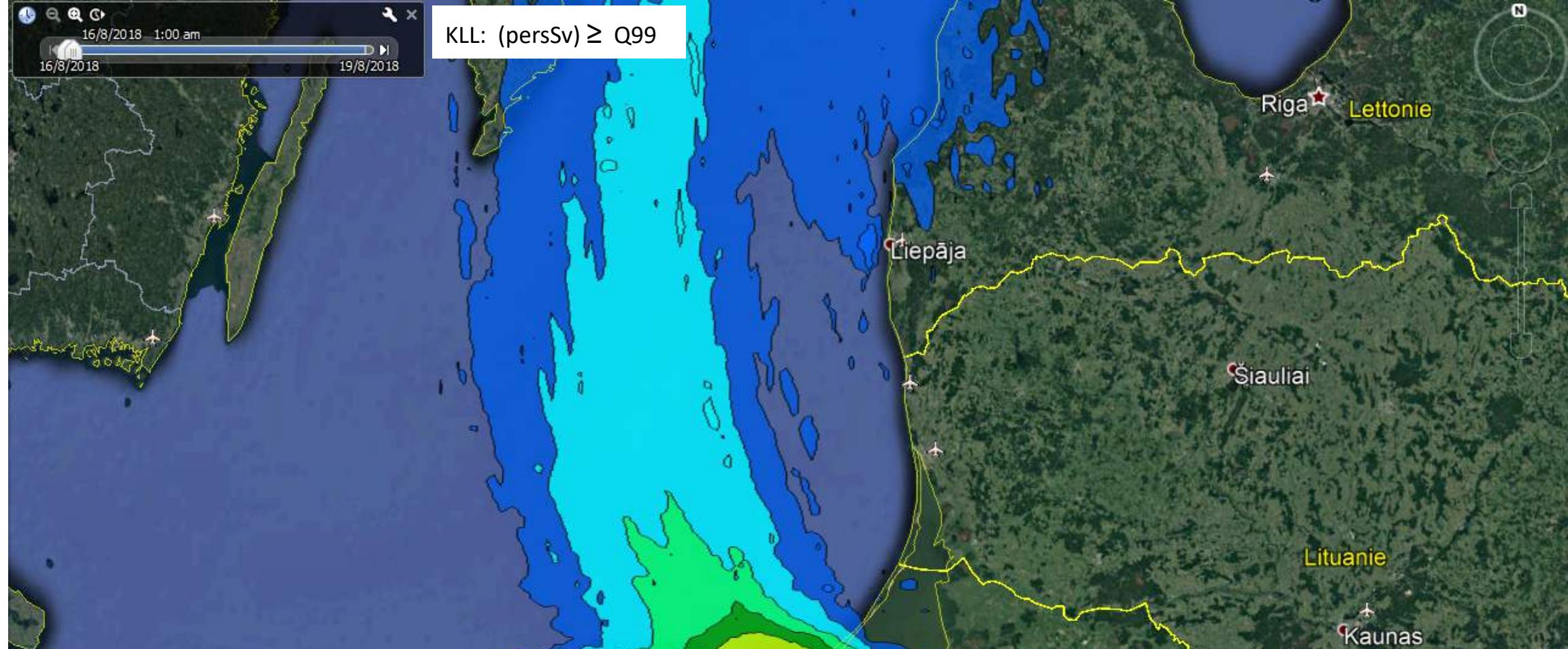
29/8/2018 1:00 am
29/8/2018 1/9/2018

KLL: (persSv) \geq Q99



16/8/2018 1:00 am
16/8/2018 19/8/2018

KLL: (persSv) \geq Q99



- Contour Level: 1 mSv
- Contour Level: 6 mSv
- Contour Level: 20 mSv
- Contour Level: 50 mSv
- Contour Level: 100 mSv
- Contour Level: 250 mSv
- Contour Level: 500 mSv
- Contour Level: 1000 mSv

8 km

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

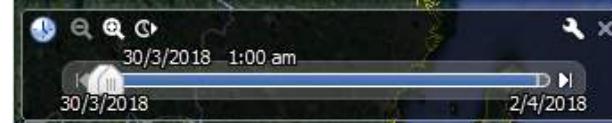
© 2020 Google

© 2020 GeoBasis-DE/BKG

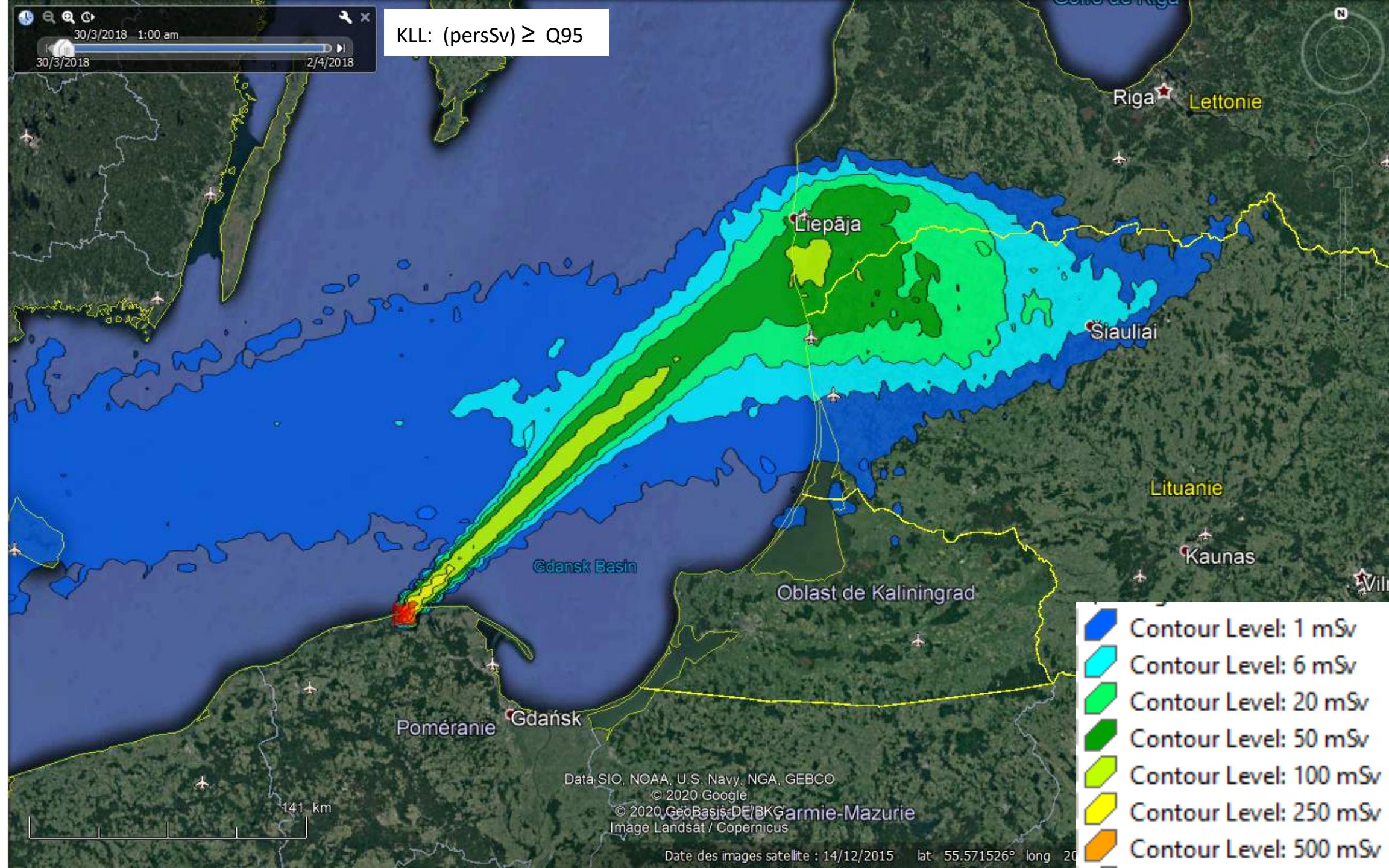
Image Landsat Copernicus

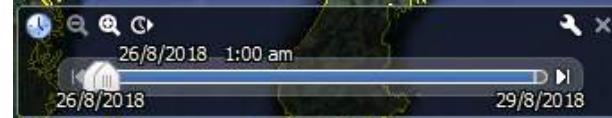
Date des images satellite : 14/12/2015 lat 55.595689° long 20.249675° élév. -66 m altitude 576.87 km

Google Earth

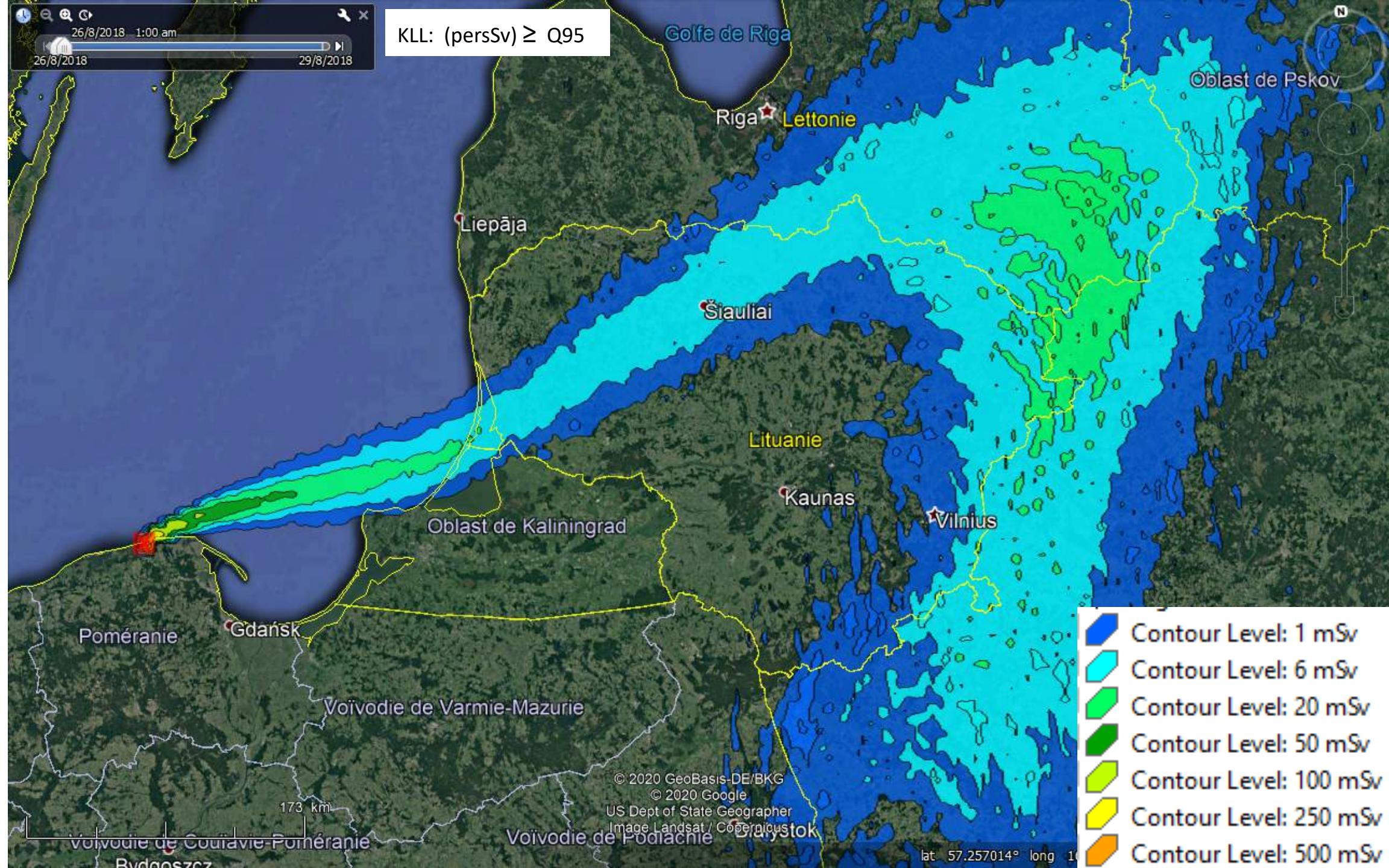


KLL: (persSv) \geq Q95



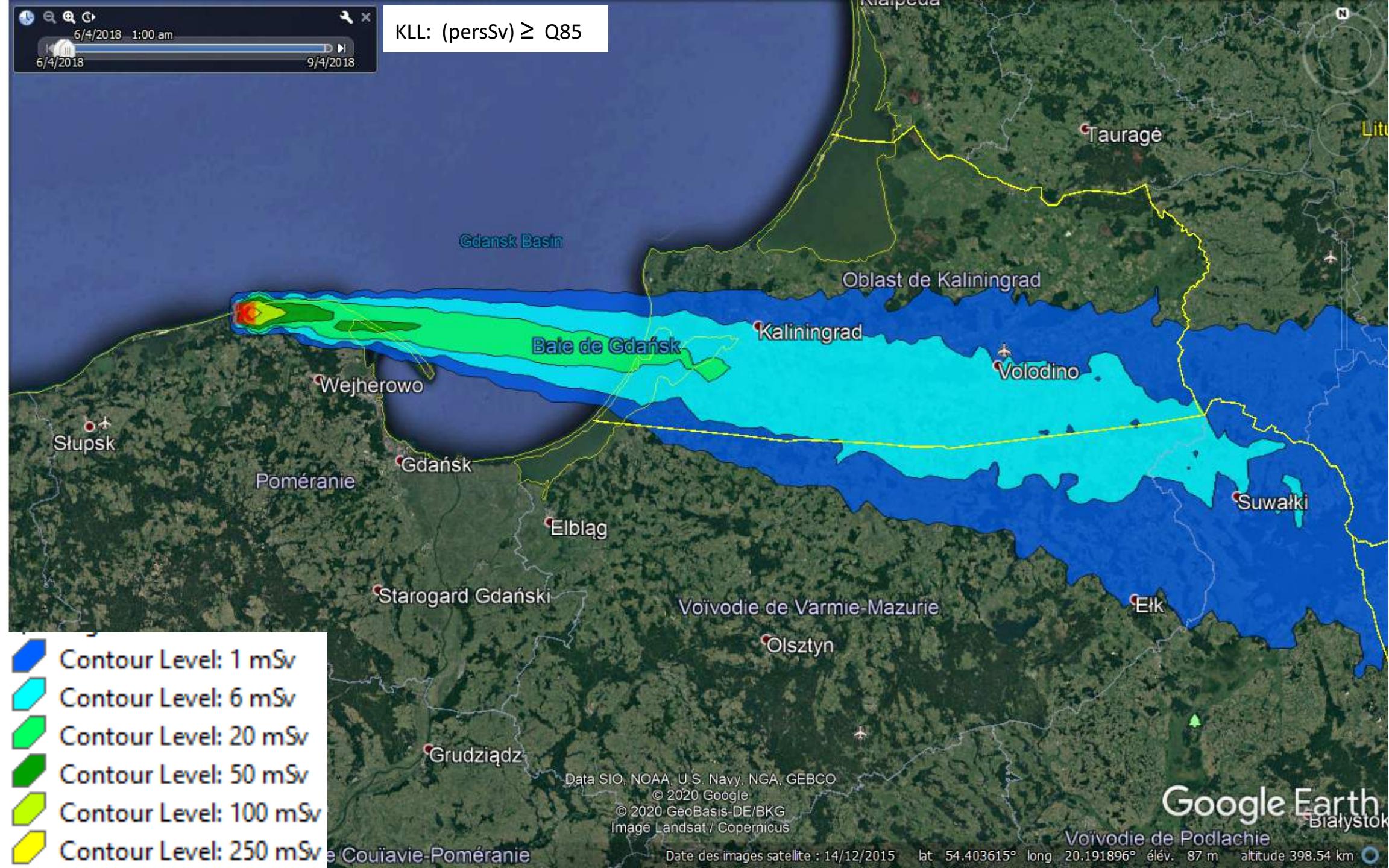


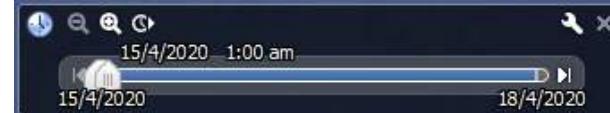
KLL: (persSv) \geq Q95



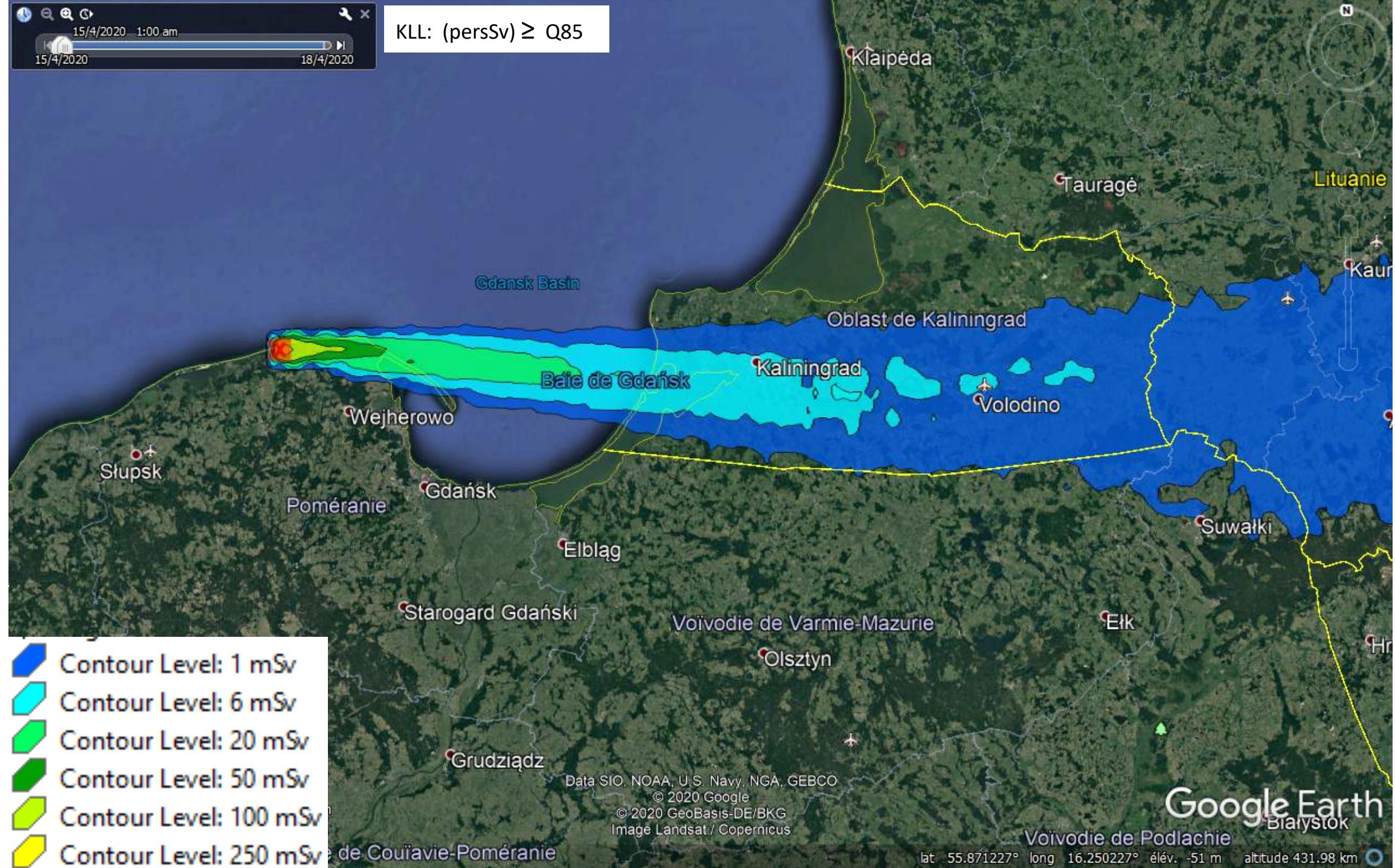


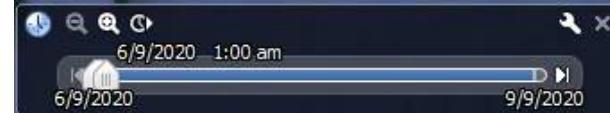
KLL: (persSv) \geq Q85



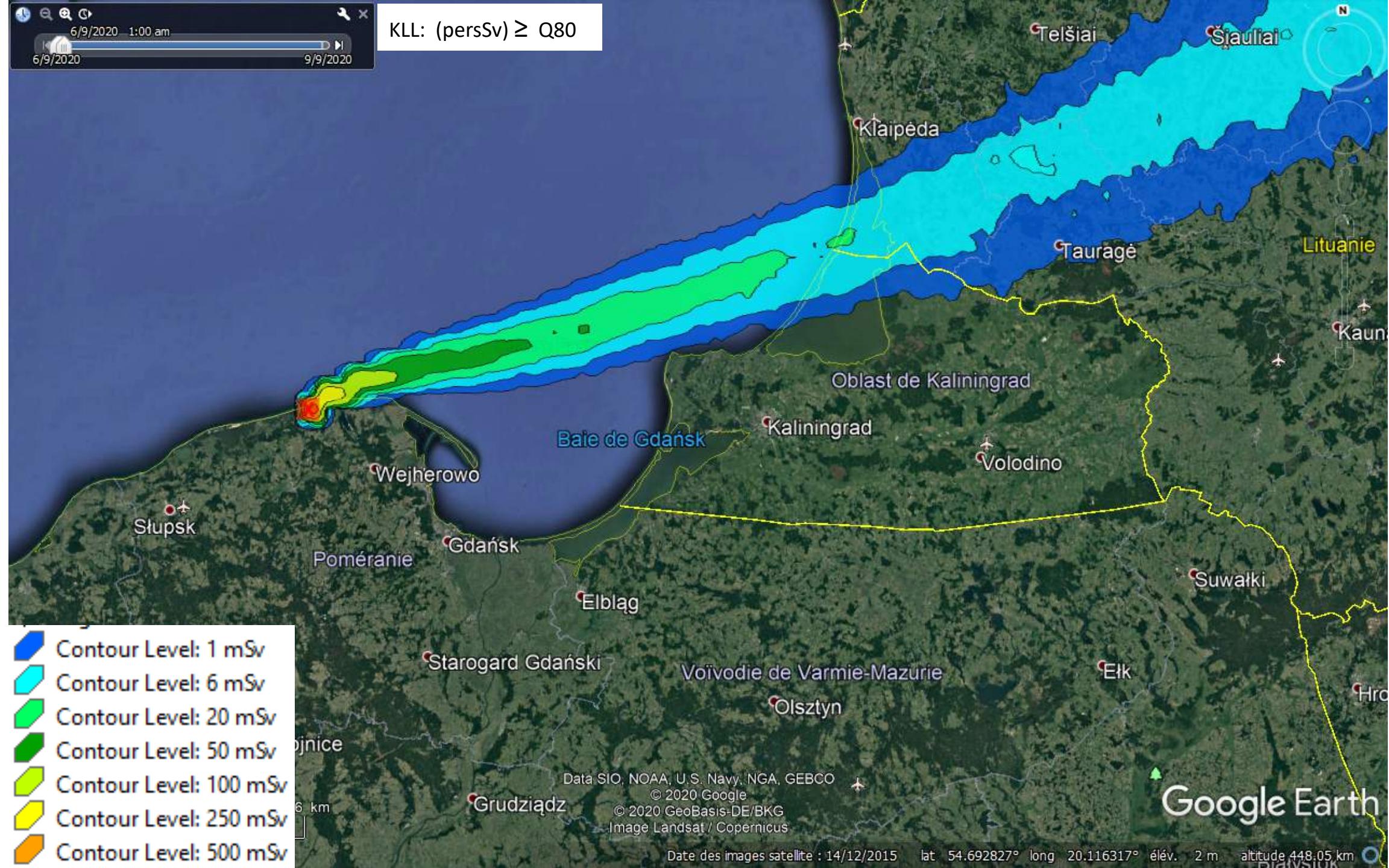


KLL: (persSv) \geq Q85



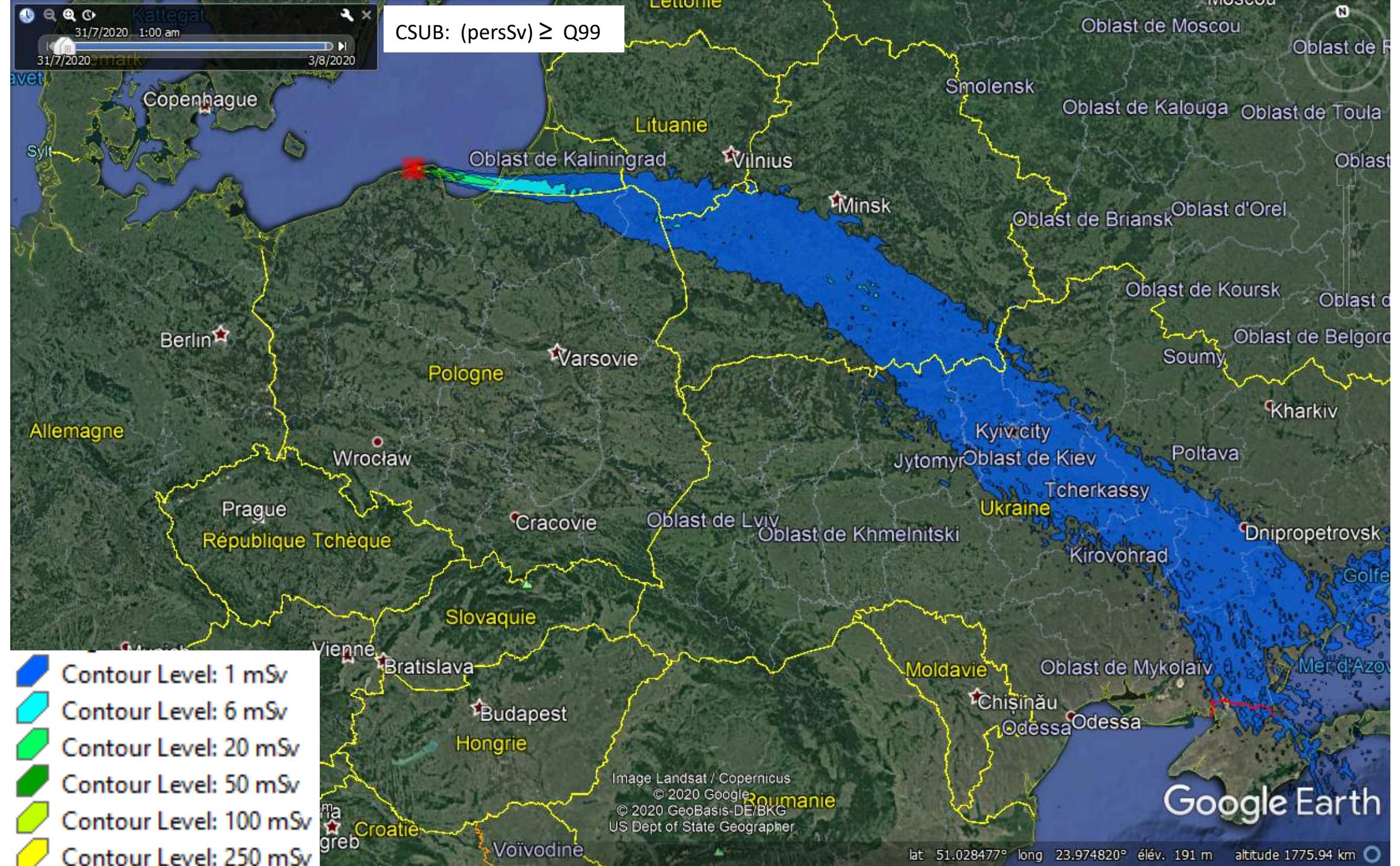


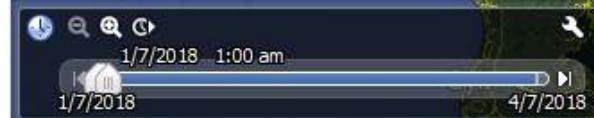
KLL: (persSv) \geq Q80



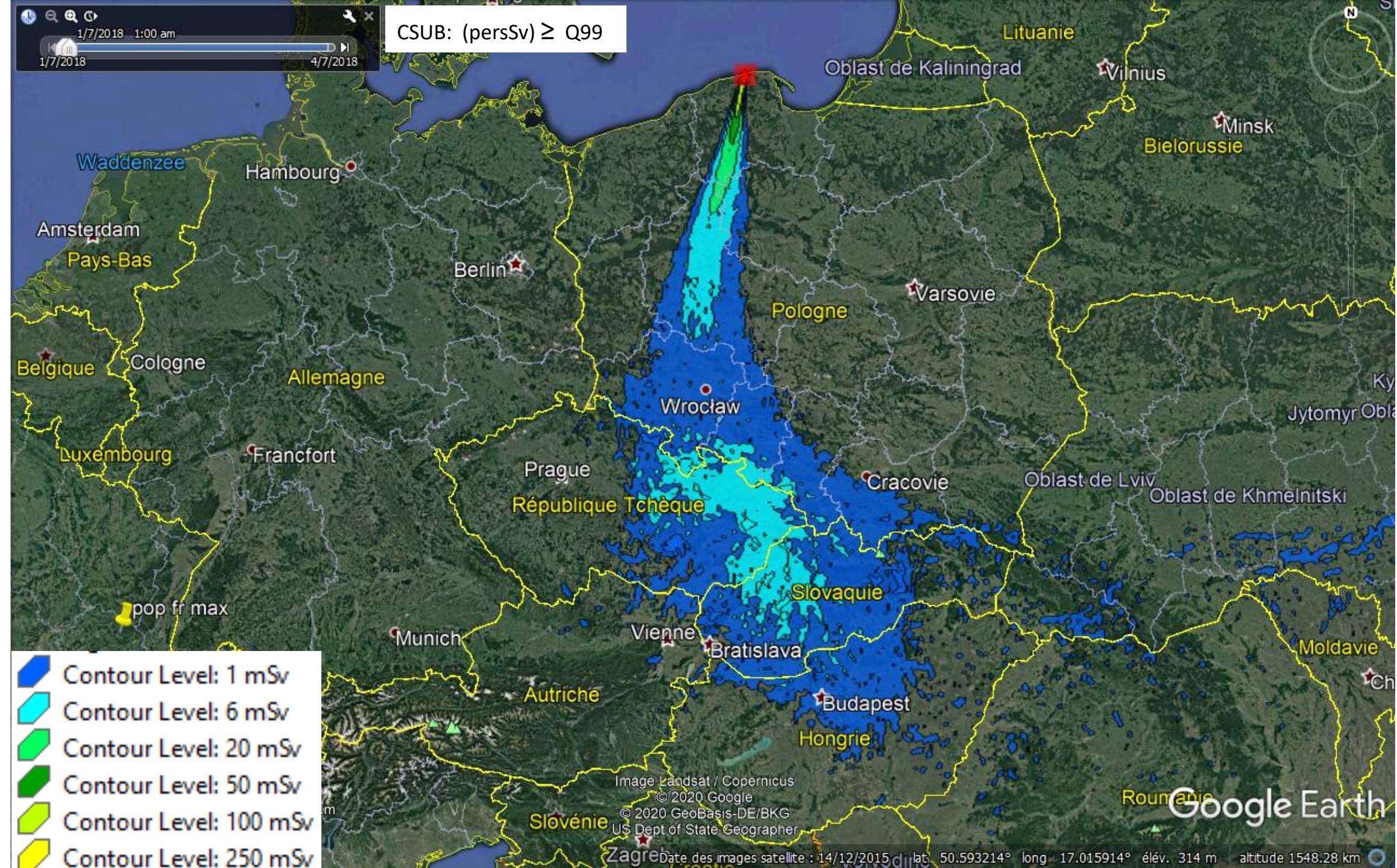


CSUB: (persSv) \geq Q99



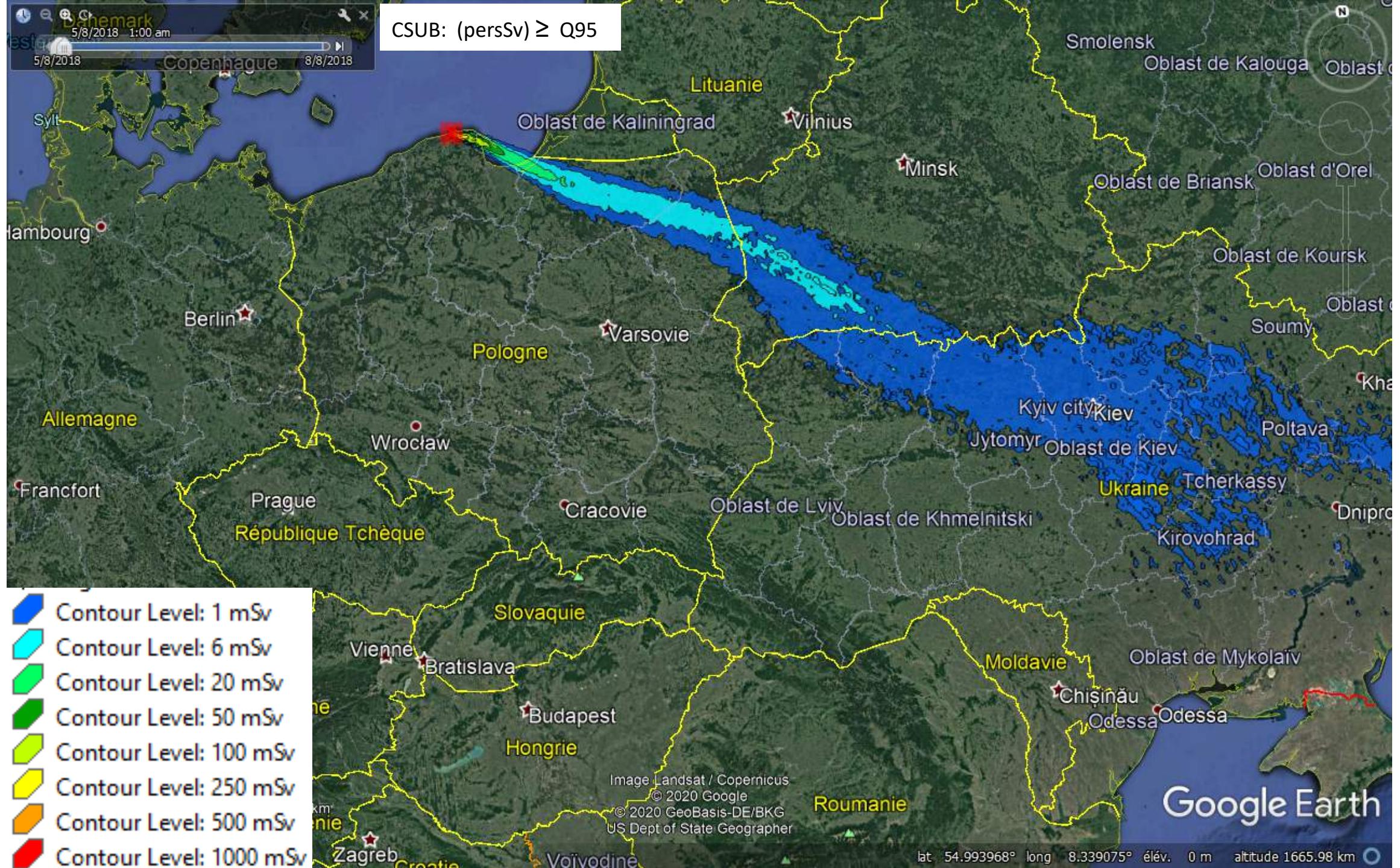


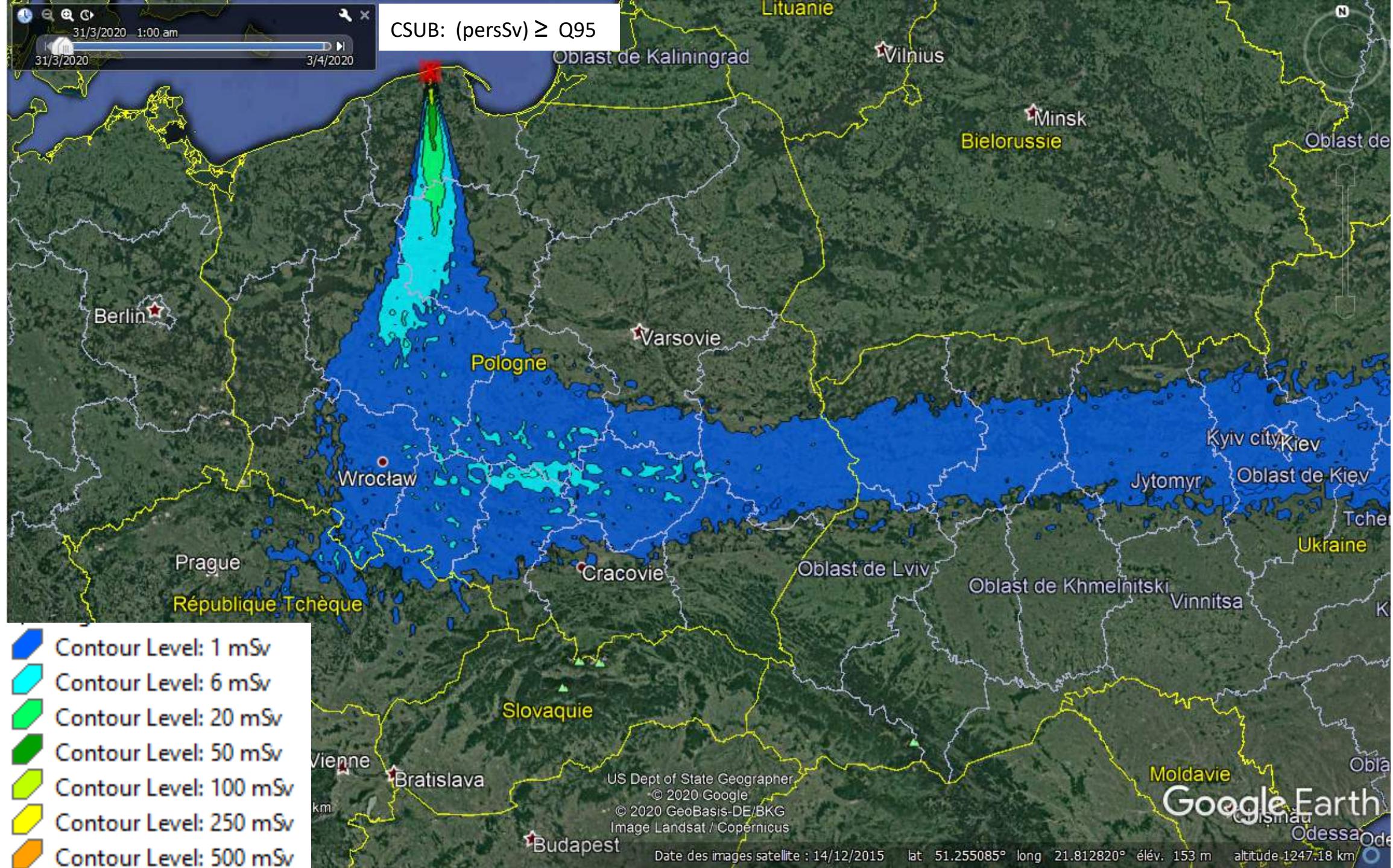
CSUB: (persSv) \geq Q99

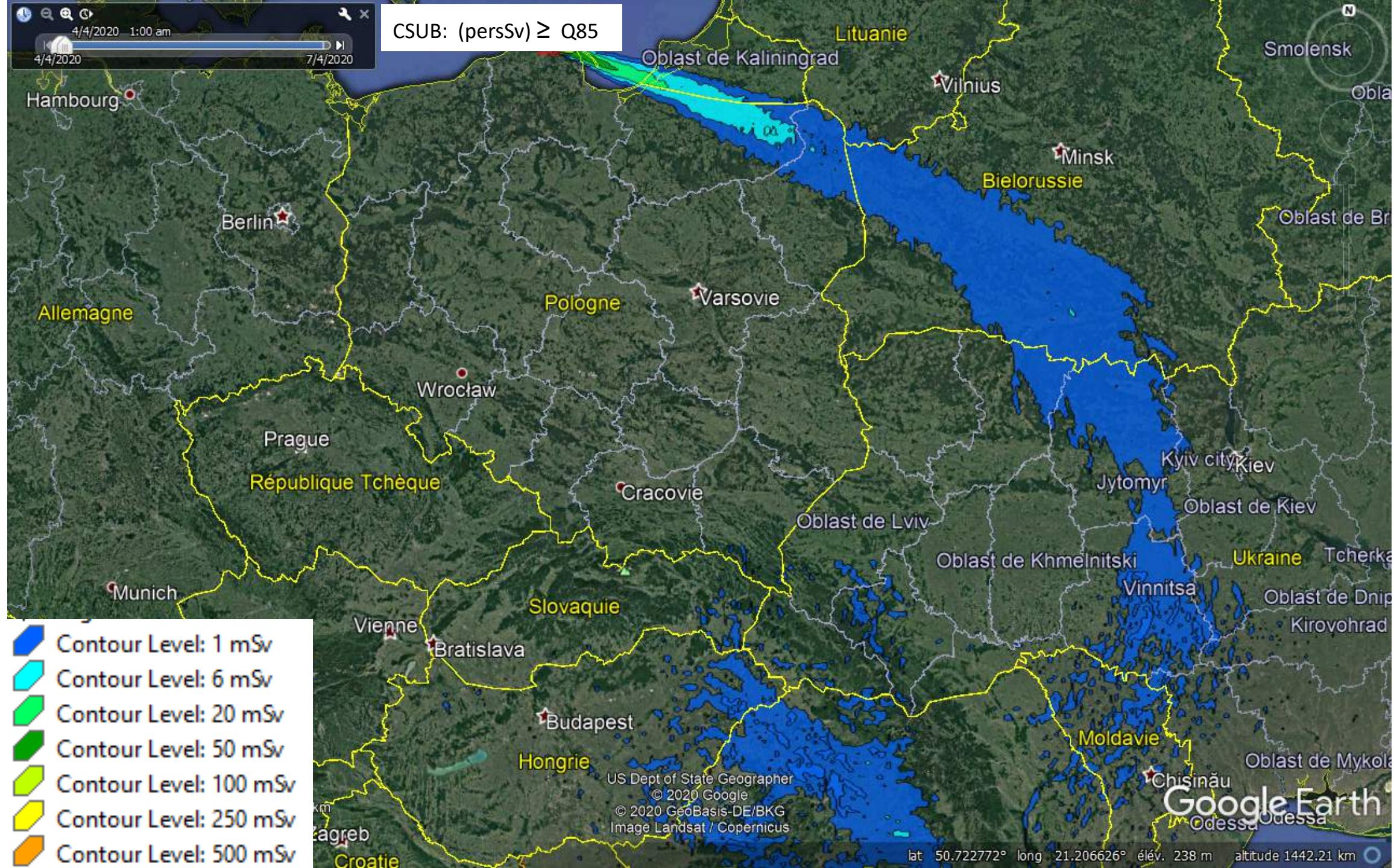


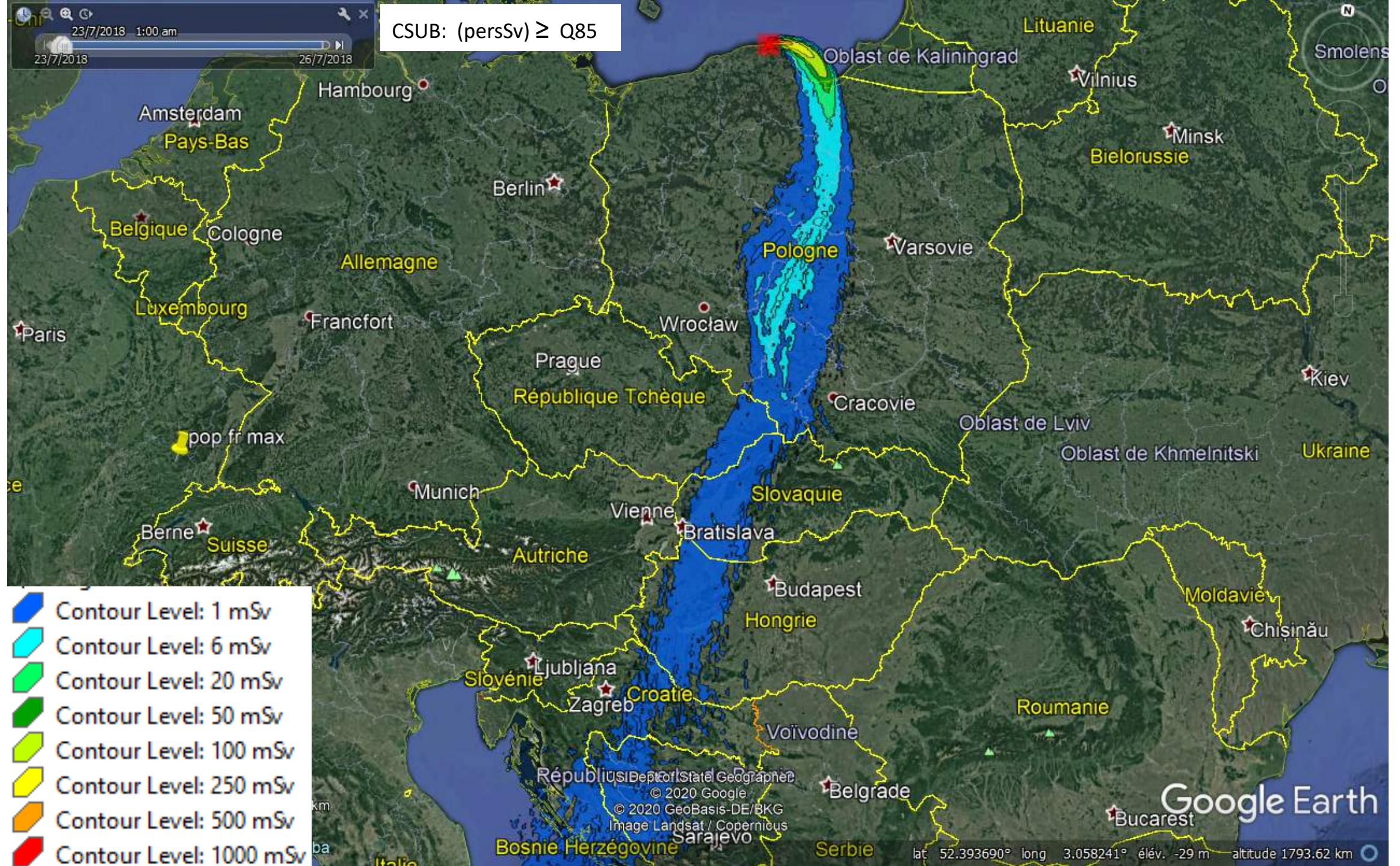


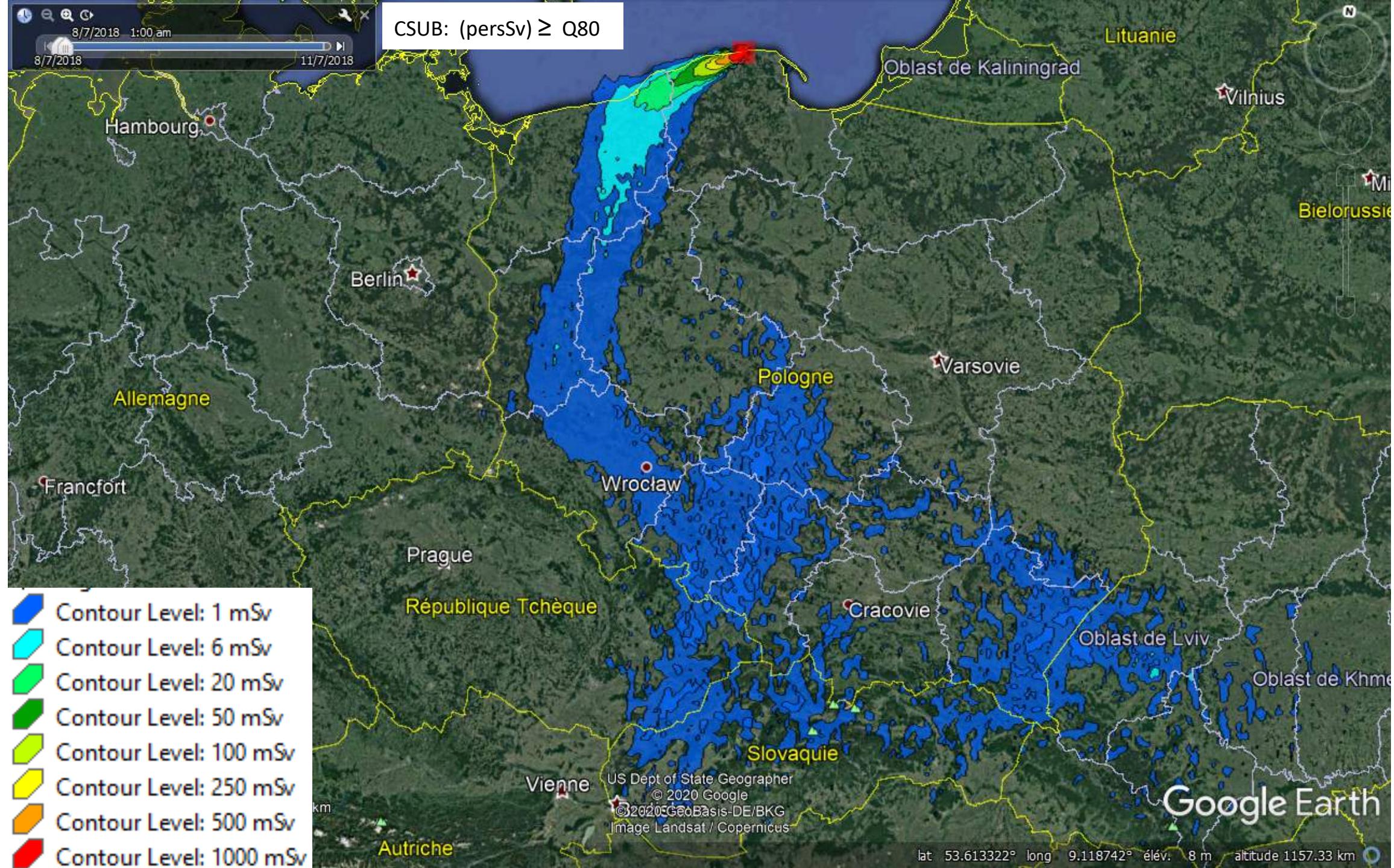
CSUB: (persSv) ≥ Q95

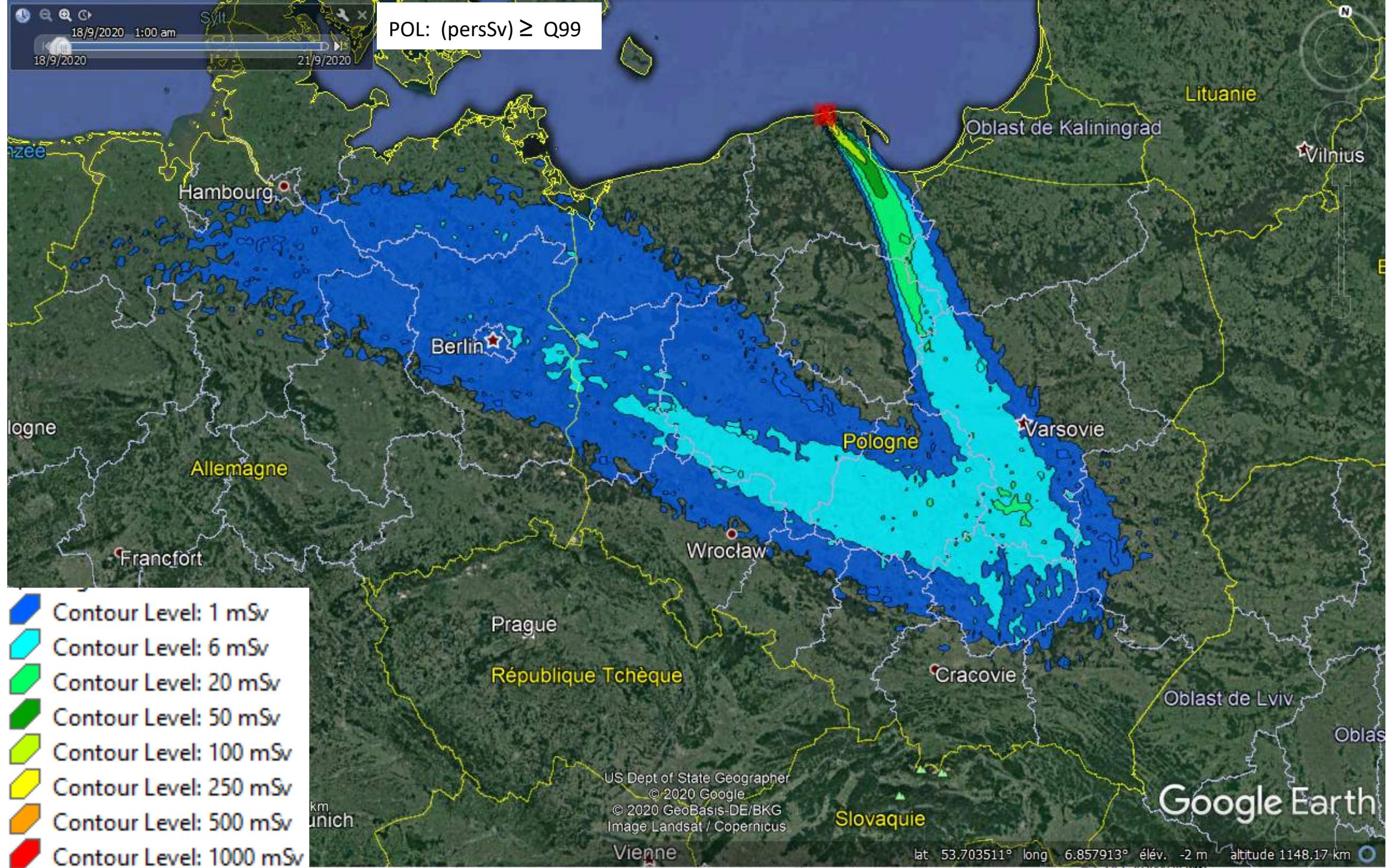






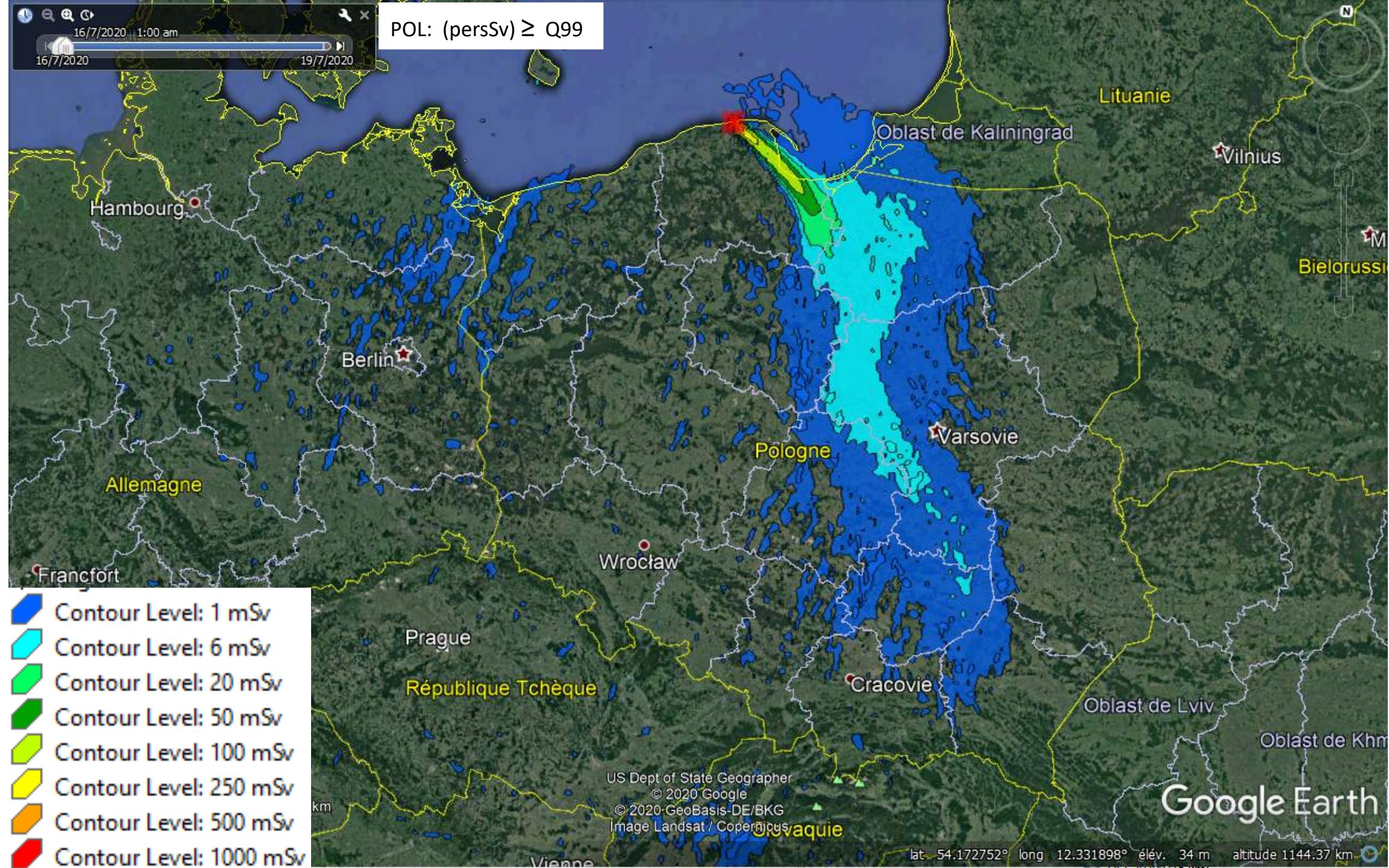






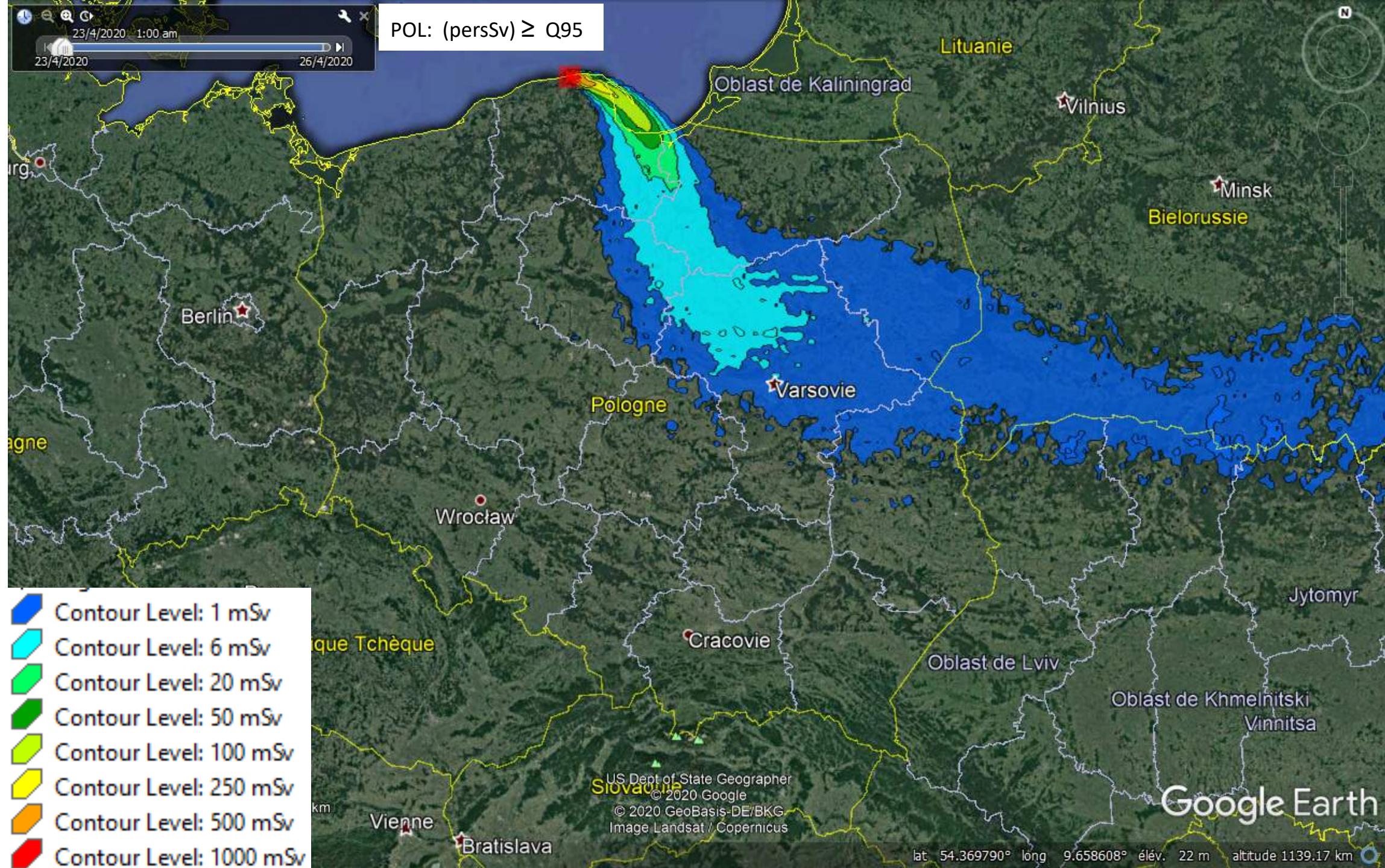
16/7/2020 1:00 am
16/7/2020 19/7/2020

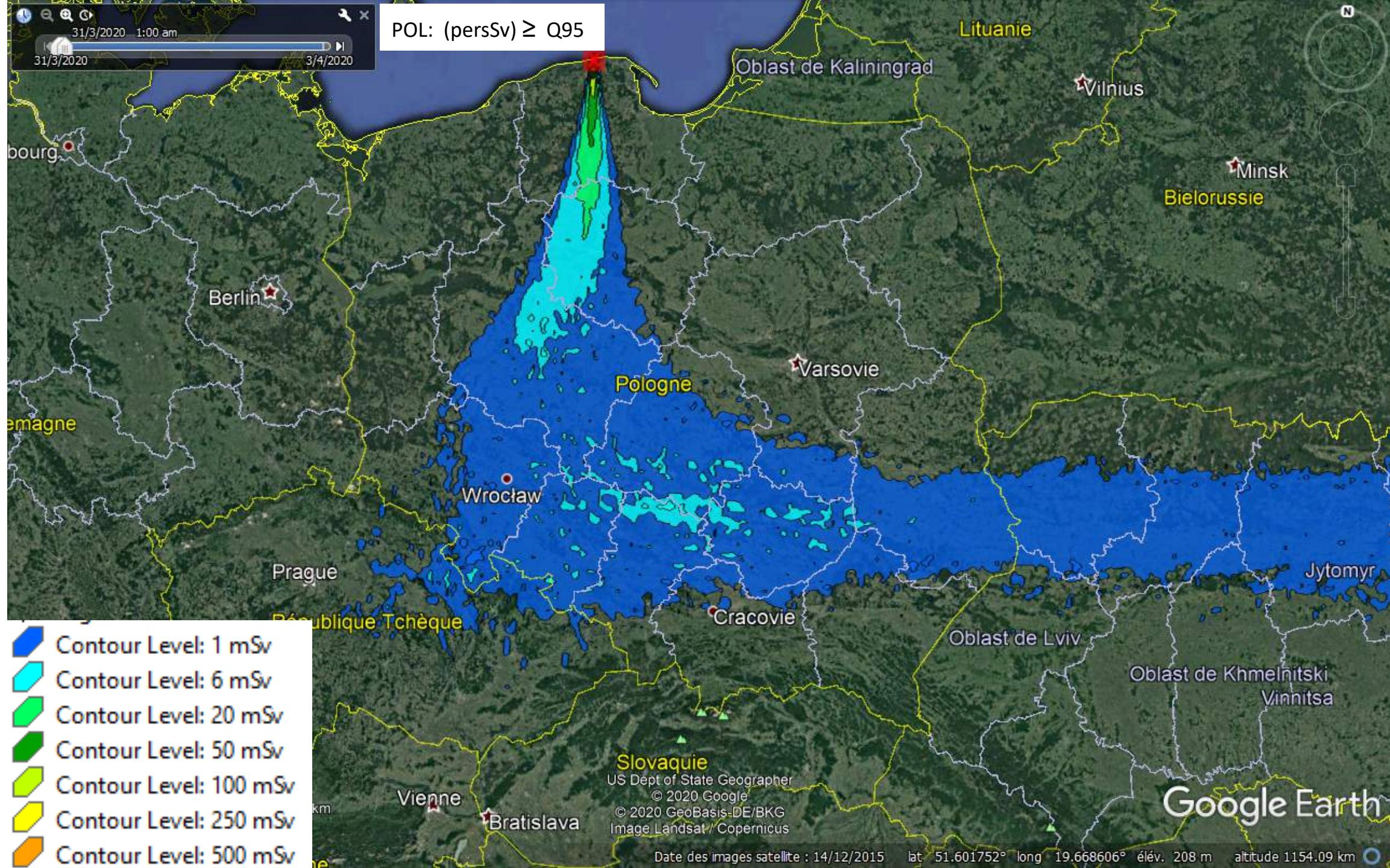
POL: (persSv) \geq Q99



23/4/2020 1:00 am
23/4/2020 26/4/2020

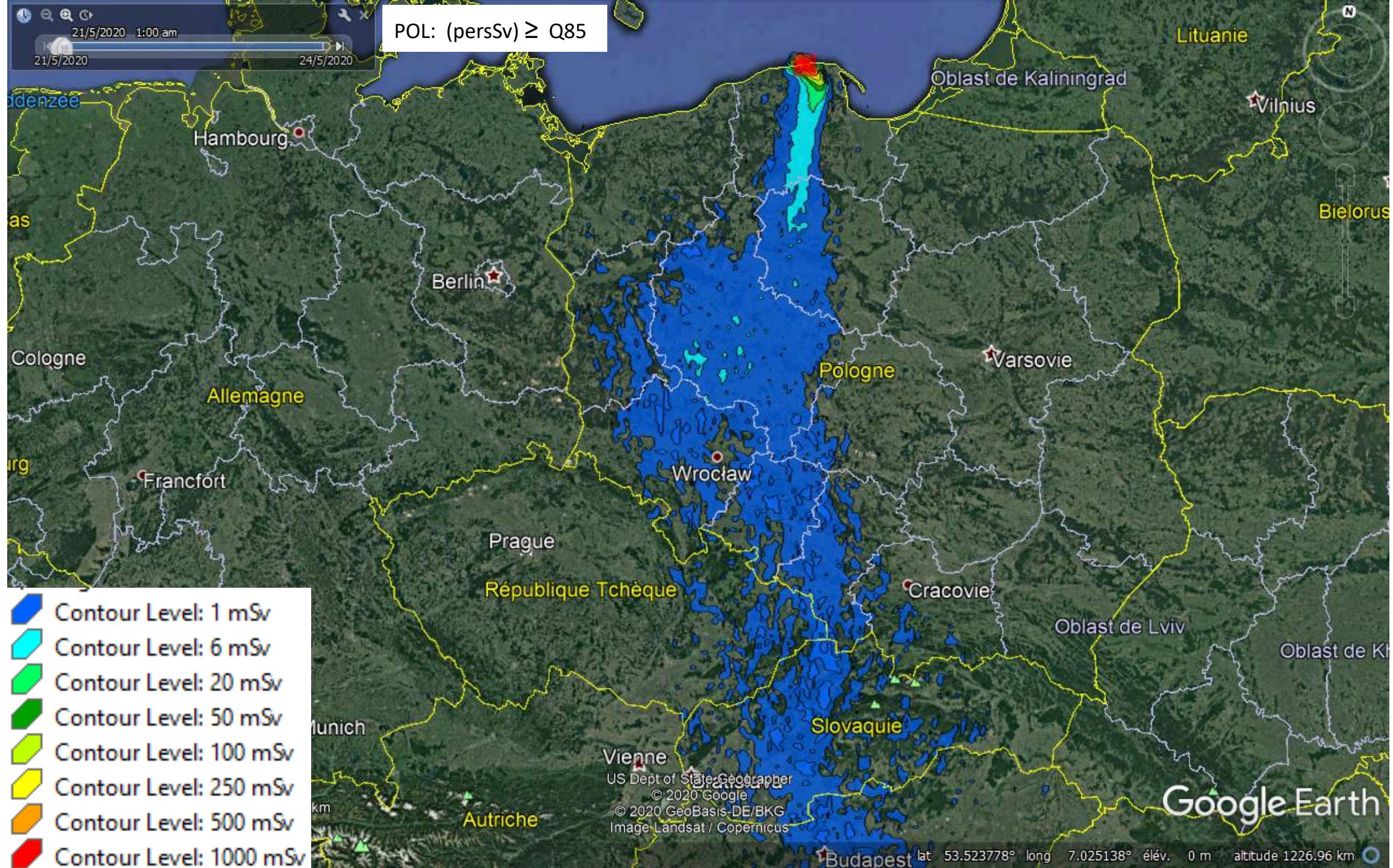
POL: (persSv) \geq Q95





21/5/2020 1:00 am
21/5/2020 24/5/2020

POL: (persSv) \geq Q85



14/3/2018 1:00 am
14/3/2018 17/3/2018

POL: (persSv) \geq Q85

