U.S. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RSMC Washington (NOAA NCEP, NOAA ARL)

NOAA Center for Weather and Climate Prediction
5830 University Research Court
College Park, Maryland USA

Tel (24 hrs - NCEP): 301-683-1500 Fax (24 hrs - NCEP): 301-683-1501
Email (24 hrs - NCEP): sdm@noaa.gov

RSMC products created Tue Jul 16 12:42 UTC 2024

The following charts will follow:
- trajectory map
- several time-itegrated concentration maps
- several deposition (dry + wet) maps

Please contact us if any problems arise with these products.

Source term and dispersion model details

RSMC Washington - NOAA ARL / NCEP

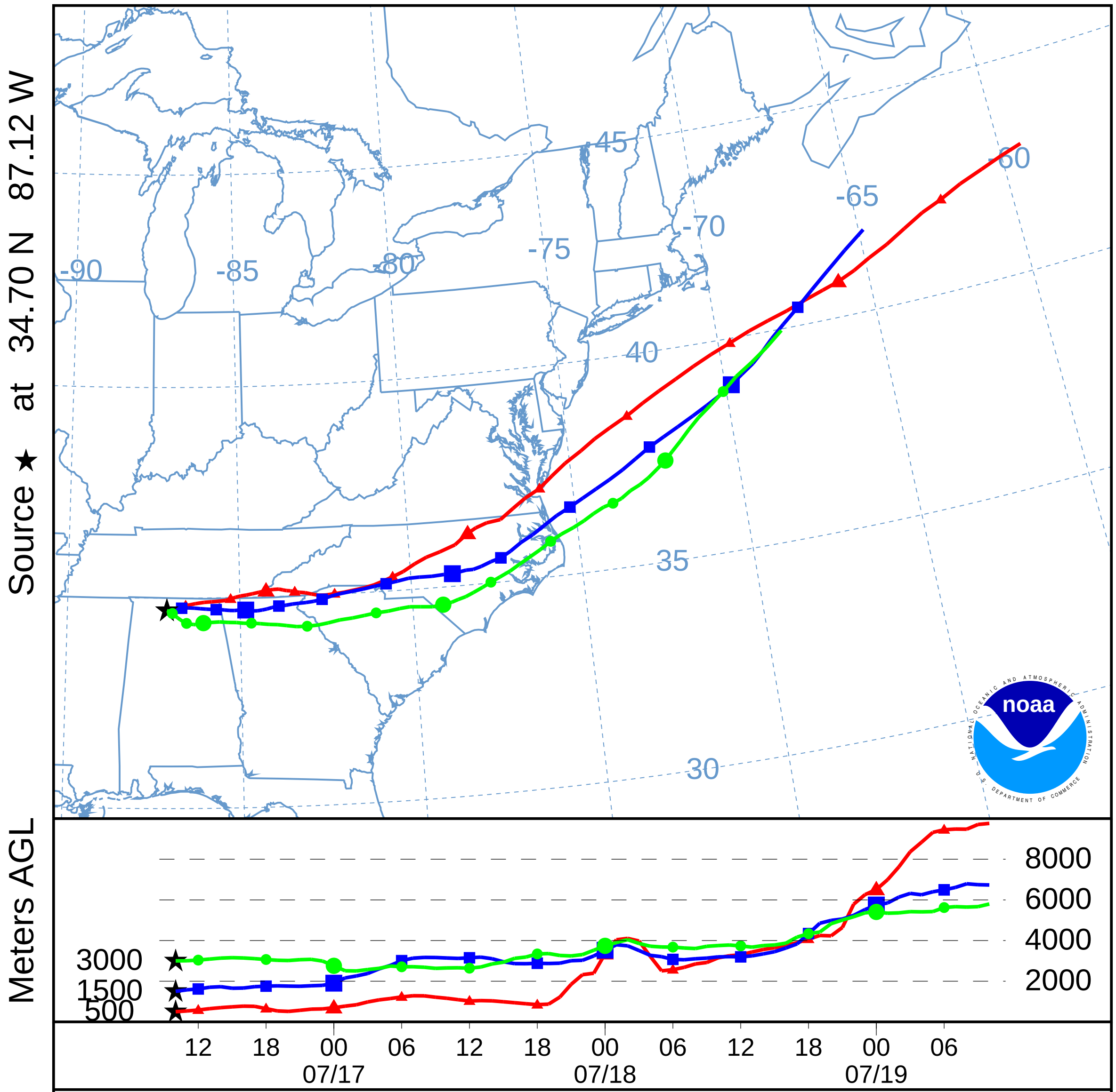
Response: EXERCISE EXERCISE EXERCISE

Location:BROWNS_FERRY lat:34.704166 lon:-87.118611
Release Start (YYYY MM DD HH MM):2024 07 16 10 30
Meteorology: 0600 UTC 16 Jul 2024 GFS
Trajectories: 500.0 1500.0 3000.0 m AGL
Release ID:C137 Rate: 2.0E+14 Bq/hr Duration: 5 hr Particles: 500
Distribution: Uniform between 10 and 500 m AGL
Dry Deposition:Yes Wet Removal:Yes
Note: Contour values may change from chart to chart

NOAA HYSPLIT MODEL

Forward trajectories starting at 1000 UTC 16 Jul 24

06 UTC 16 Jul   GFSQ Forecast Initialization



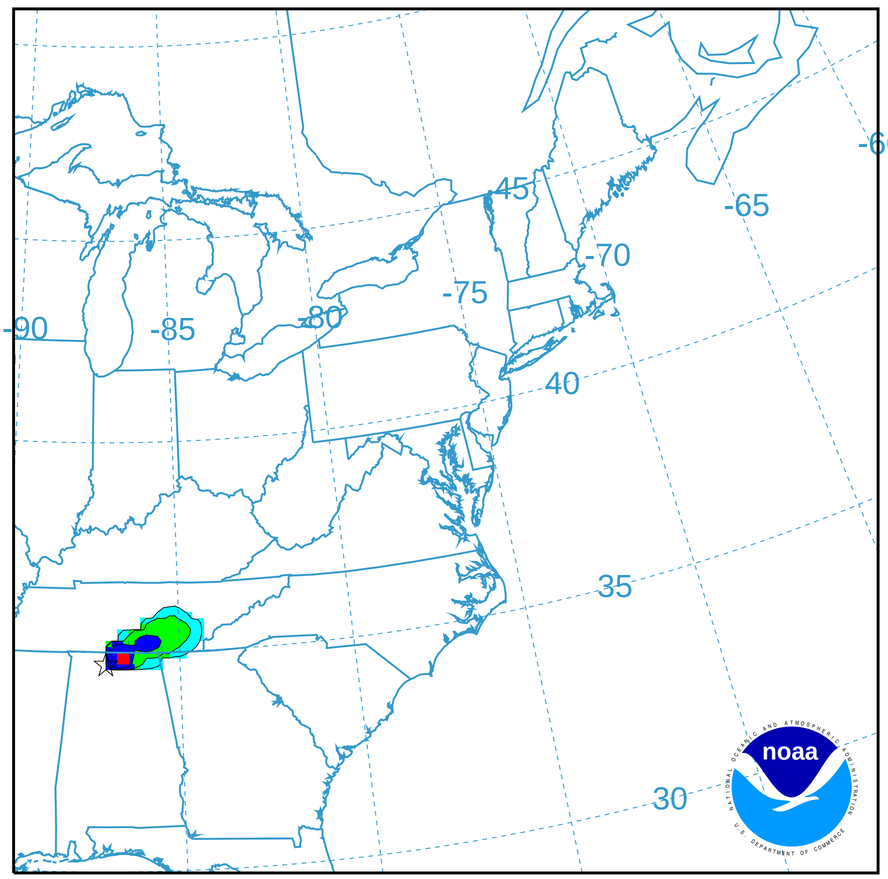
Created: 1242UTC 16/07/2024 (day/month/year) RSMC Washington - NOAA ARL / NCEP
Source: BROWNS_FERRY lat:34.704166 lon:-87.118611 height: 500.0 1500.0 3000.0

Trajectory   Direction:forward   Duration:72 hr
Vertical Motion Calculation Method: Model Vertical Velocity
Response: EXERCISE   EXERCISE   EXERCISE

NOAA HYSPLIT MODEL

Exposure (Bq-s/m3) averaged between 0 m and 500 m
Integrated from 1000 16 Jul to 0000 17 Jul 24 (UTC)
C137 Release started at 1030 16 Jul 24 (UTC)

Source ☆ 34.704 N 87.119 W 10 m to 500 m



>1.0E+07 Bq-s/m3
>1.0E+06 Bq-s/m3
>1.0E+05 Bq-s/m3
>10000 Bq-s/m3

Maximum: 1.4E+07 Bq-s/m3
Minimum: 2.1E+02 Bq-s/m3

0600 16 Jul 24 GFSQ FORECAST INITIALIZATION

Created: 1242UTC 16/07/2024 (day/month/year) RSMC Washington - NOAA ARL / NCEP
Source:BROWNS_FERRY lat:34.704166 lon:-87.118611 hgt:10 to 500 m
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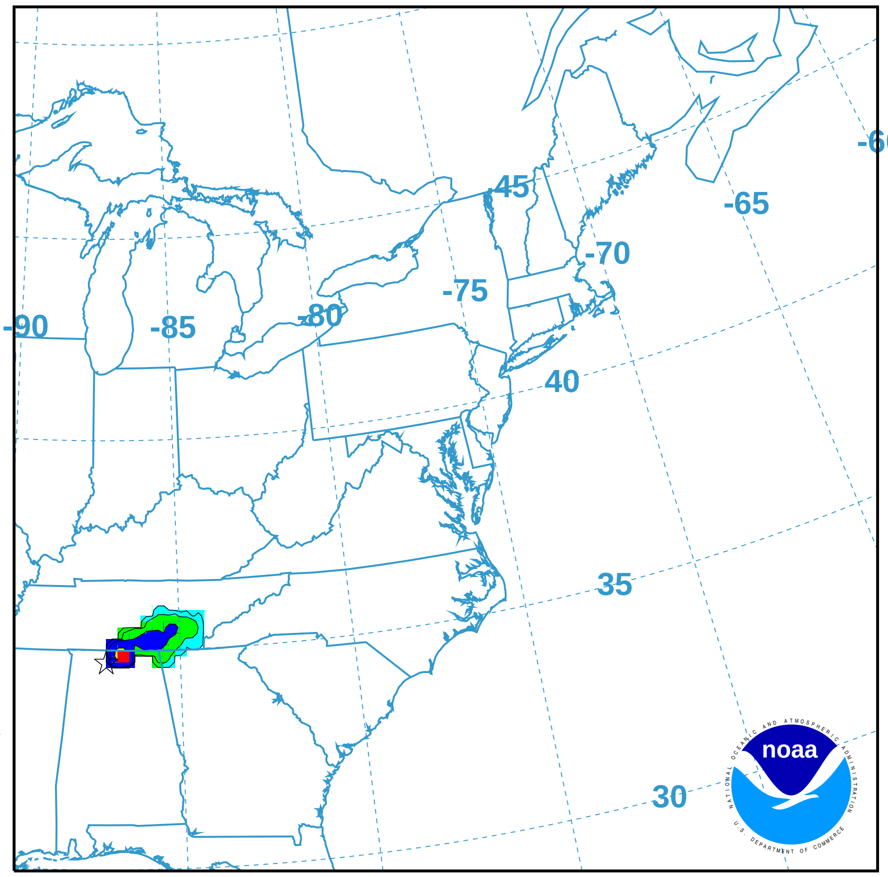
Distribution: Uniform between 10 and 500 m AGL
Dry Deposition:Yes Wet Removal:Yes
Meteorology: 0600 UTC 16 Jul 2024 GFS
Note: Contour values may change from chart to chart

Response: EXERCISE EXERCISE EXERCISE

NOAA HYSPLIT MODEL

Deposition (Bq/m2) at ground-level
Integrated from 1000 16 Jul to 0000 17 Jul 24 (UTC)
C137 Release started at 1030 16 Jul 24 (UTC)

Source ☆ 34.704 N 87.119 W 10 m to 500 m



>10000 Bq/m2
>1000 Bq/m2
>100 Bq/m2
>10 Bq/m2

Maximum: 2.7E+04 Bq/m2
Minimum: 4.8E-01 Bq/m2

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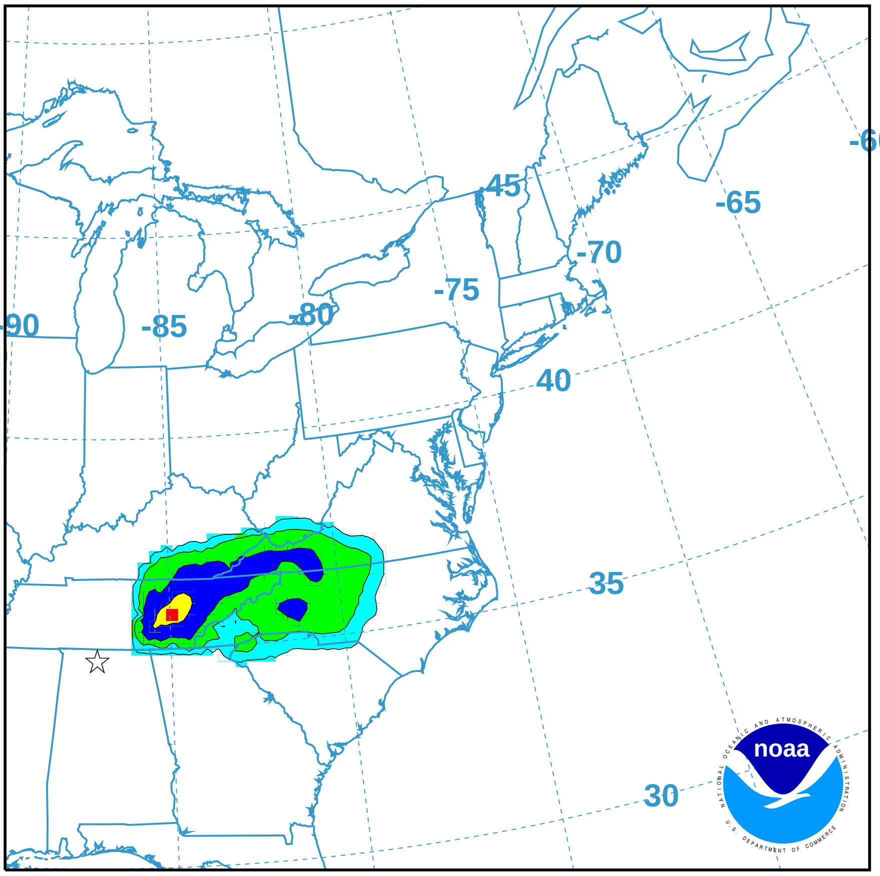

>1.0E+06 Bq-s/m3
>1.0E+05 Bq-s/m3
>10000 Bq-s/m3
>1000 Bq-s/m3

Maximum: 2.5E+06 Bq-s/m3
Minimum: 8.9E-01 Bq-s/m3

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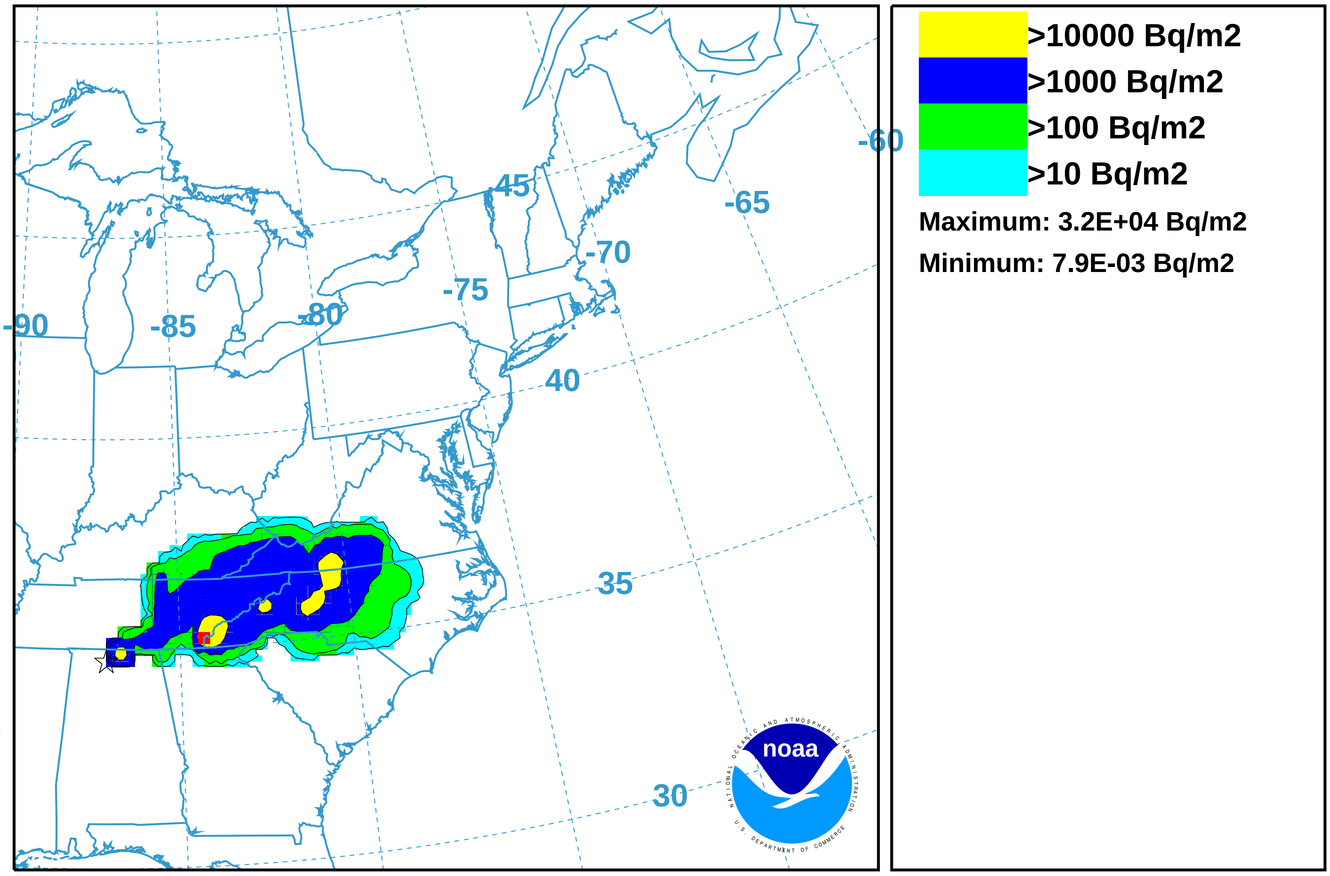

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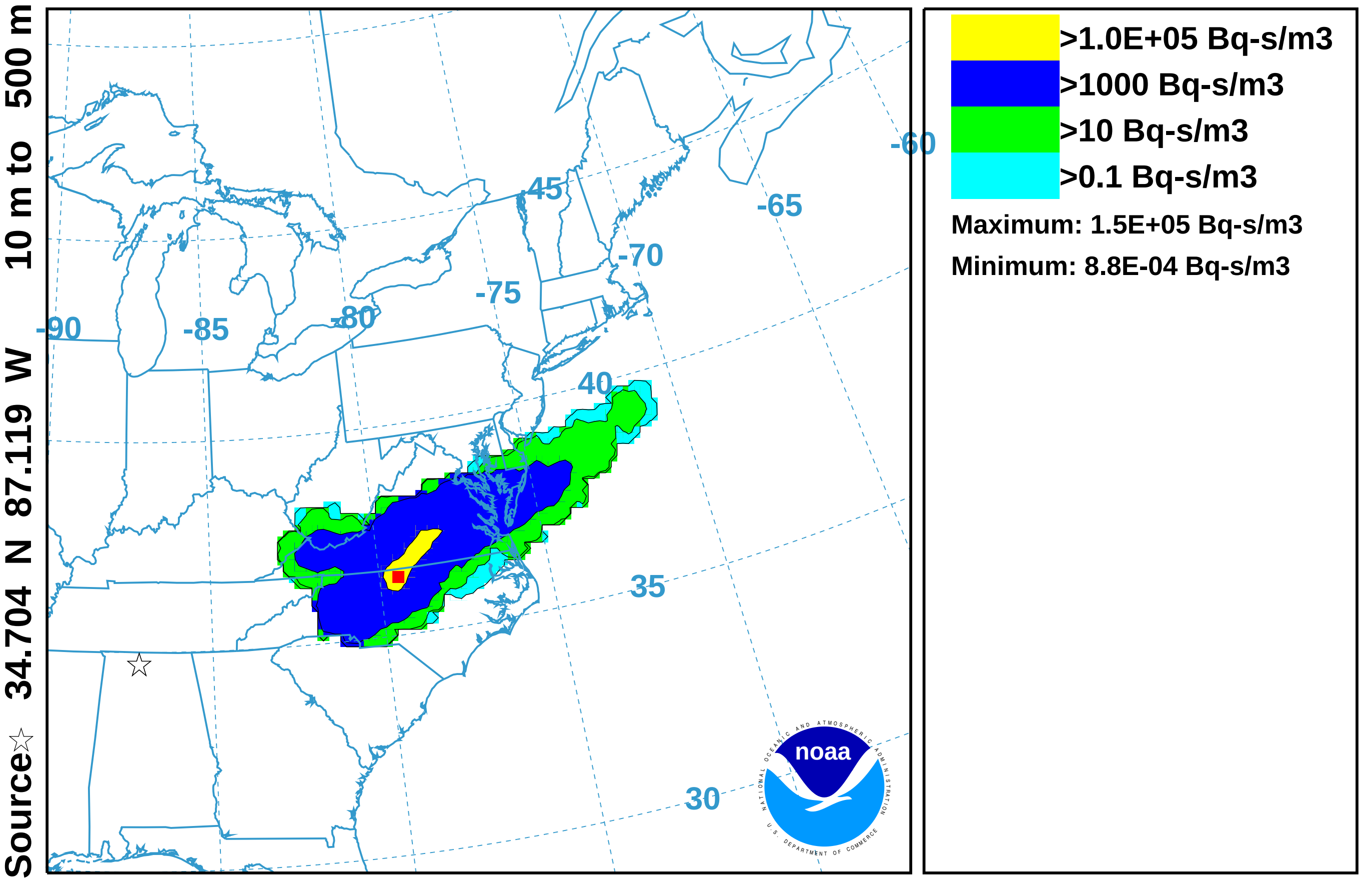

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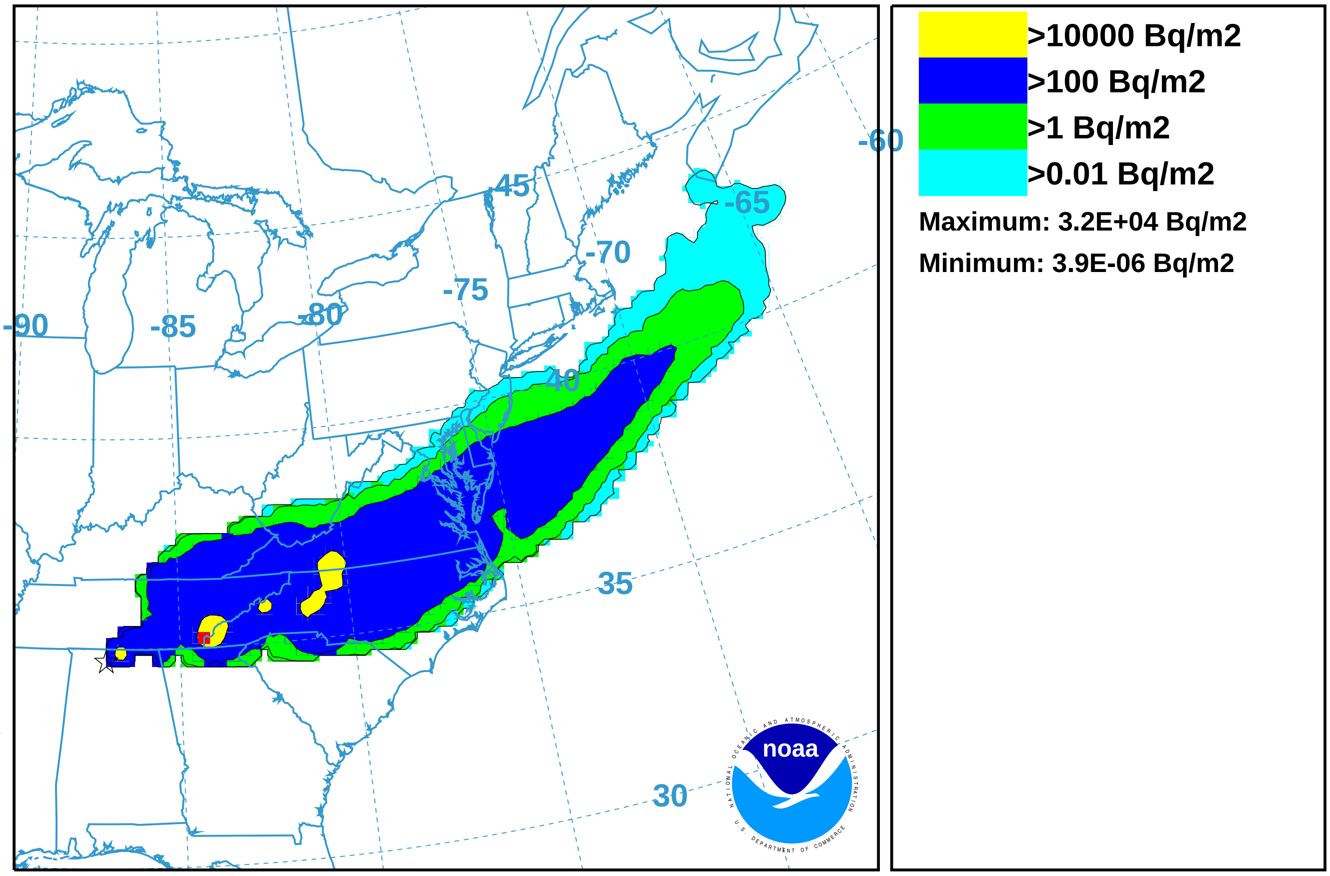

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