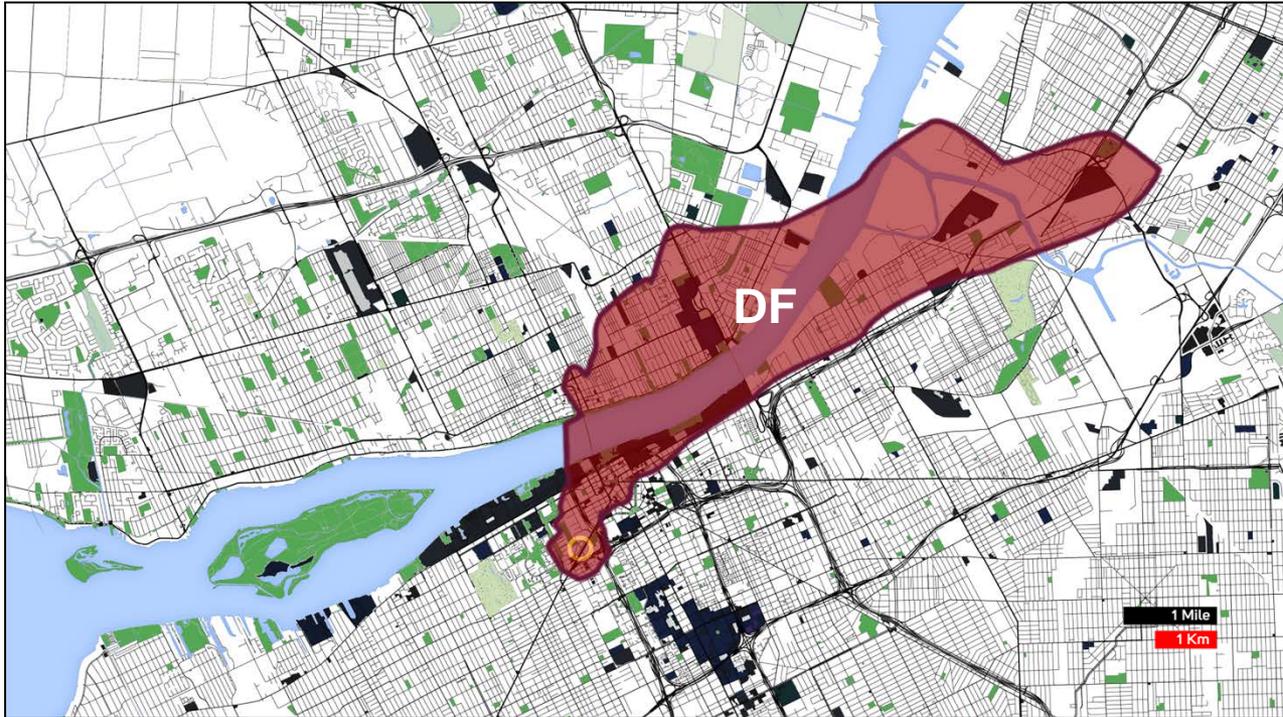


Predicted Dangerous Fallout Zone (Presented in 6 time steps)



DF

DANGEROUS FALLOUT (DF)
 Dangerous radiation levels exceeding 10 R/h.
 The best initial action is to seek adequate shelter.
 Delay responder entry (several hours) unless undertaking a carefully planned mission with sufficient benefit to justify the anticipated radiation dose.
 Total Population: 160,000
 Area: 42.6 km² Extent: 15.3 km

3 hours
 after detonation

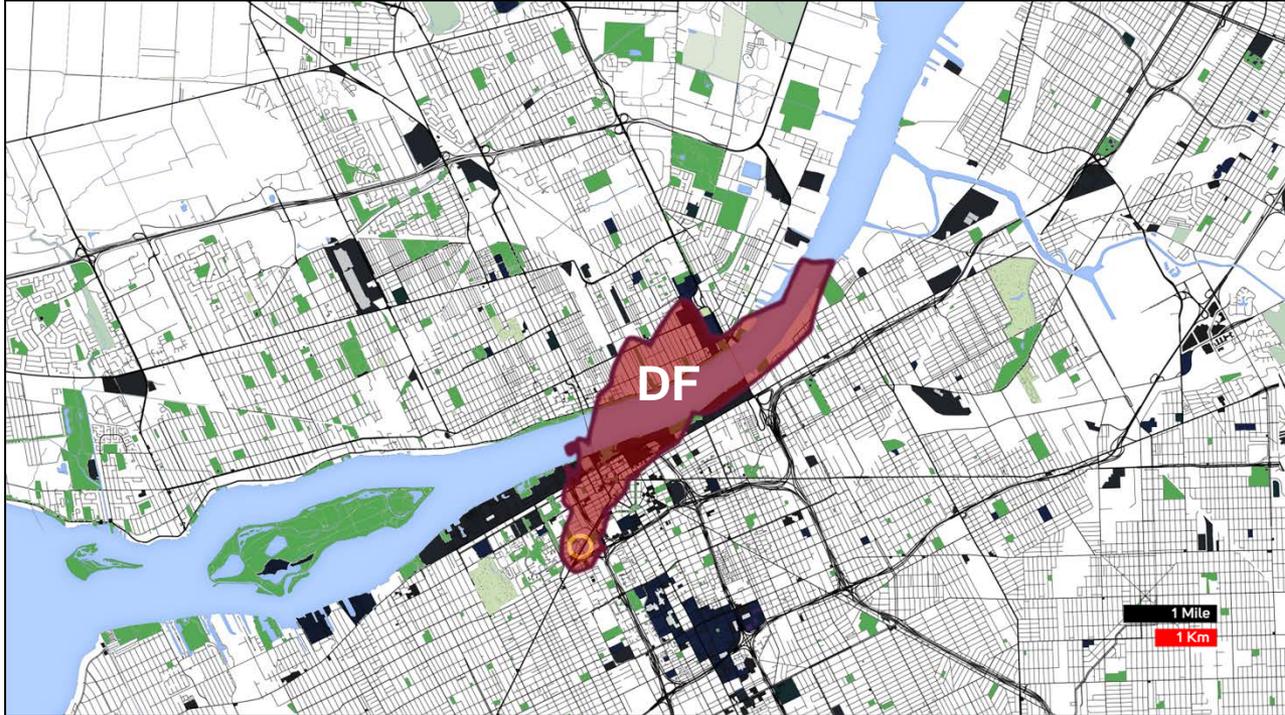
Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Communicating protective actions to the public is critical. Generally, advise public to seek and remain in adequate shelter to avoid exposure to fallout until instructed to evacuate. Evacuation through heavy fallout may increase dose and decrease survivability.
- The highest hazard from fallout occurs in the first hours but rapidly declines as the fallout decays. The radiation levels in the zone and the size of the zone rapidly decrease over time.
- Dangerous Fallout Zone is entirely embedded in Hot Zone (not shown here, see separate figures Predicted Hot Zone).

Predicted Dangerous Fallout Zone (Presented in 6 time steps)



DF

DANGEROUS FALLOUT (DF)
 Dangerous radiation levels exceeding 10 R/h.
 The best initial action is to seek adequate shelter.
 Delay responder entry (several hours) unless undertaking a carefully planned mission with sufficient benefit to justify the anticipated radiation dose.
 Total Population: 54,800
 Area: 12.5 km² Extent: 8.4 km

6 hours
 after detonation

Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Communicating protective actions to the public is critical. Generally, advise public to seek and remain in adequate shelter to avoid exposure to fallout until instructed to evacuate. Evacuation through heavy fallout may increase dose and decrease survivability.
- The highest hazard from fallout occurs in the first hours but rapidly declines as the fallout decays. The radiation levels in the zone and the size of the zone rapidly decrease over time.
- Dangerous Fallout Zone is entirely embedded in Hot Zone (not shown here, see separate figures Predicted Hot Zone).

Predicted Dangerous Fallout Zone (Presented in 6 time steps)



DF

DANGEROUS FALLOUT (DF)
 Dangerous radiation levels exceeding 10 R/h.
 The best initial action is to seek adequate shelter.
 Delay responder entry (several hours) unless undertaking a carefully planned mission with sufficient benefit to justify the anticipated radiation dose.
 Total Population: 14,600
 Area: 2.8 km² Extent: 3.4 km

12 hours
 after detonation

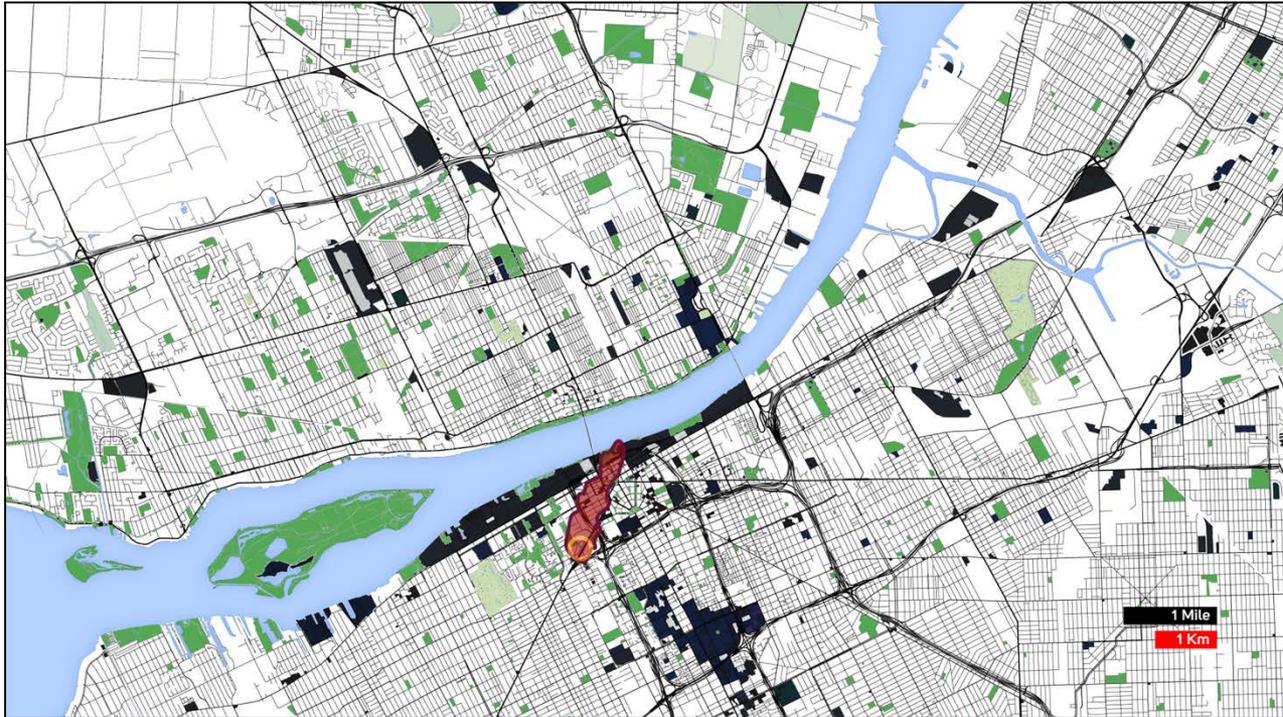
Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Communicating protective actions to the public is critical. Generally, advise public to seek and remain in adequate shelter to avoid exposure to fallout until instructed to evacuate. Evacuation through heavy fallout may increase dose and decrease survivability.
- The highest hazard from fallout occurs in the first hours but rapidly declines as the fallout decays. The radiation levels in the zone and the size of the zone rapidly decrease over time.
- Dangerous Fallout Zone is entirely embedded in Hot Zone (not shown here, see separate figures Predicted Hot Zone).

Predicted Dangerous Fallout Zone (Presented in 6 time steps)



DF

DANGEROUS FALLOUT (DF)
 Dangerous radiation levels exceeding 10 R/h.

The best initial action is to seek adequate shelter.

Delay responder entry (several hours) unless undertaking a carefully planned mission with sufficient benefit to justify the anticipated radiation dose.

Total Population: 4,210

Area: 1.1 km² Extent: 2.5 km

24 hours
 after detonation

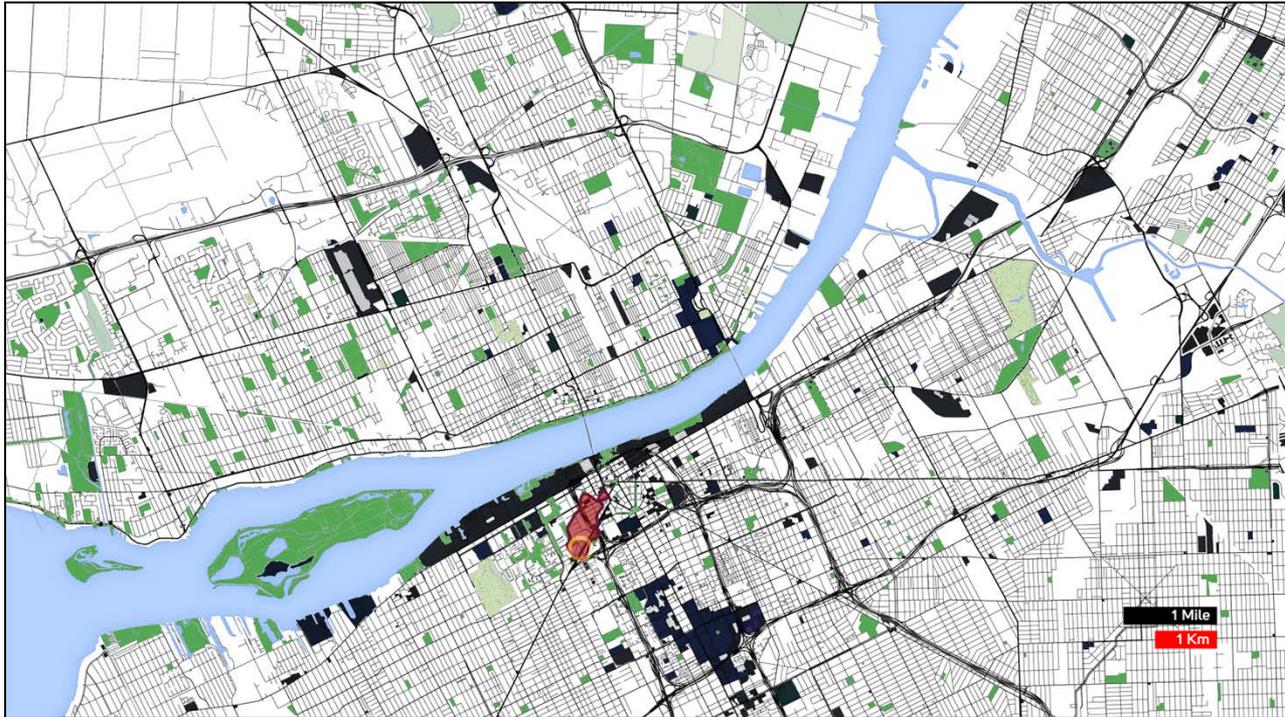
Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Communicating protective actions to the public is critical. Generally, advise public to seek and remain in adequate shelter to avoid exposure to fallout until instructed to evacuate. Evacuation through heavy fallout may increase dose and decrease survivability.
- The highest hazard from fallout occurs in the first hours but rapidly declines as the fallout decays. The radiation levels in the zone and the size of the zone rapidly decrease over time.
- Dangerous Fallout Zone is entirely embedded in Hot Zone (not shown here, see separate figures Predicted Hot Zone).

Predicted Dangerous Fallout Zone (Presented in 6 time steps)



DF

DANGEROUS FALLOUT (DF)
 Dangerous radiation levels exceeding 10 R/h.
 The best initial action is to seek adequate shelter.
 Delay responder entry (several hours) unless undertaking a carefully planned mission with sufficient benefit to justify the anticipated radiation dose.
 Total Population: <1,000
 Area: 0.5 km² Extent: 1.3 km

36 hours
 after detonation

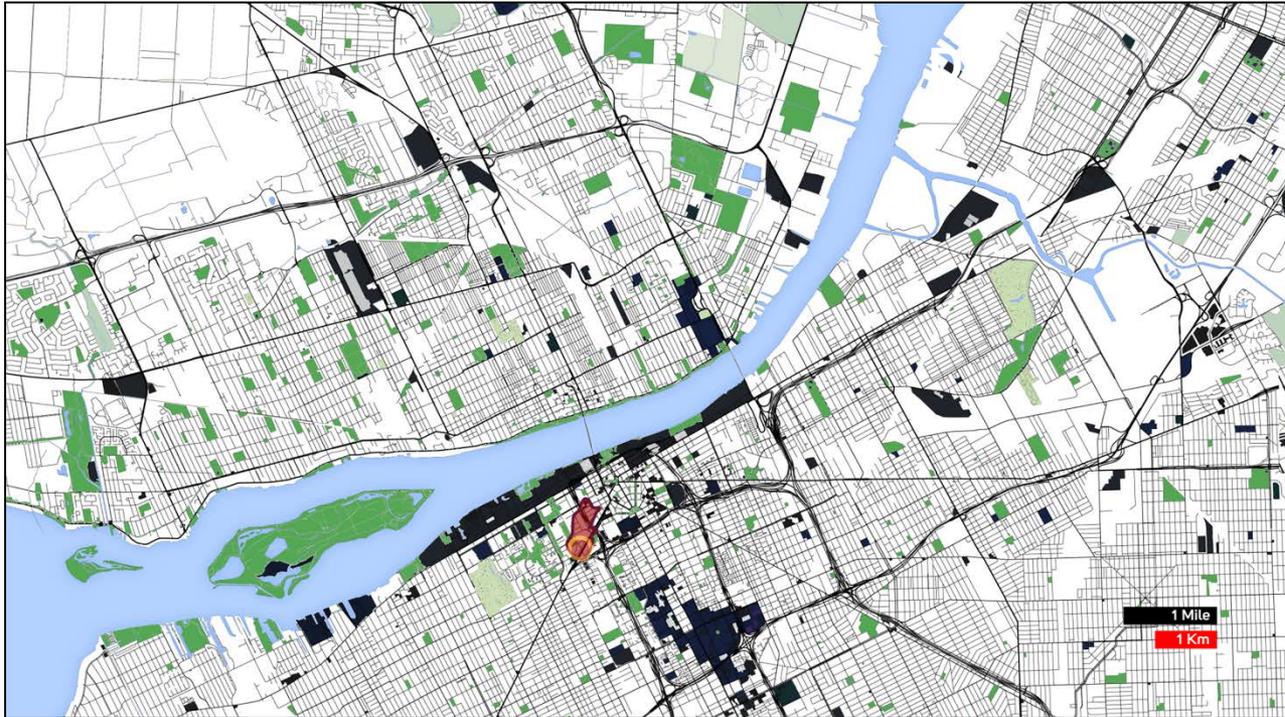
Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Communicating protective actions to the public is critical. Generally, advise public to seek and remain in adequate shelter to avoid exposure to fallout until instructed to evacuate. Evacuation through heavy fallout may increase dose and decrease survivability.
- The highest hazard from fallout occurs in the first hours but rapidly declines as the fallout decays. The radiation levels in the zone and the size of the zone rapidly decrease over time.
- Dangerous Fallout Zone is entirely embedded in Hot Zone (not shown here, see separate figures Predicted Hot Zone).

Predicted Dangerous Fallout Zone (Presented in 6 time steps)



DF

DANGEROUS FALLOUT (DF)
 Dangerous radiation levels exceeding 10 R/h.
 The best initial action is to seek adequate shelter.
 Delay responder entry (several hours) unless undertaking a carefully planned mission with sufficient benefit to justify the anticipated radiation dose.
 Total Population: <100
 Area: 0.4 km² Extent: 1.1 km

48 hours
 after detonation

Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Communicating protective actions to the public is critical. Generally, advise public to seek and remain in adequate shelter to avoid exposure to fallout until instructed to evacuate. Evacuation through heavy fallout may increase dose and decrease survivability.
- The highest hazard from fallout occurs in the first hours but rapidly declines as the fallout decays. The radiation levels in the zone and the size of the zone rapidly decrease over time.
- Dangerous Fallout Zone is entirely embedded in Hot Zone (not shown here, see separate figures Predicted Hot Zone).

Text Description for Images

Predicted Dangerous Fallout Zone (Presented in 6 time steps)

Six maps showing Predicted Dangerous Fallout Zone 3 hours, 6 hours, 12 hours, 24 hours, 36 hours, and 48 hours after detonation.

The maps are based on the assumed magnitude of the explosion and the predicted or observed meteorological conditions. It delineates the area where the radiation dose rate is 10 R/h (100 mSv/h) or greater. This area is known as the Dangerous Fallout (DF) zone. Responders and decision-makers will use this map during the first few hours to days post-detonation to advise the affected population to shelter (within the DF zone) or evacuate (outside the DF zone, barring any impediments to evacuation). It should be noted that radiation levels from an IND will change rapidly, and the size of the Dangerous Fallout zone will shrink considerably within the first 48-72 hours.