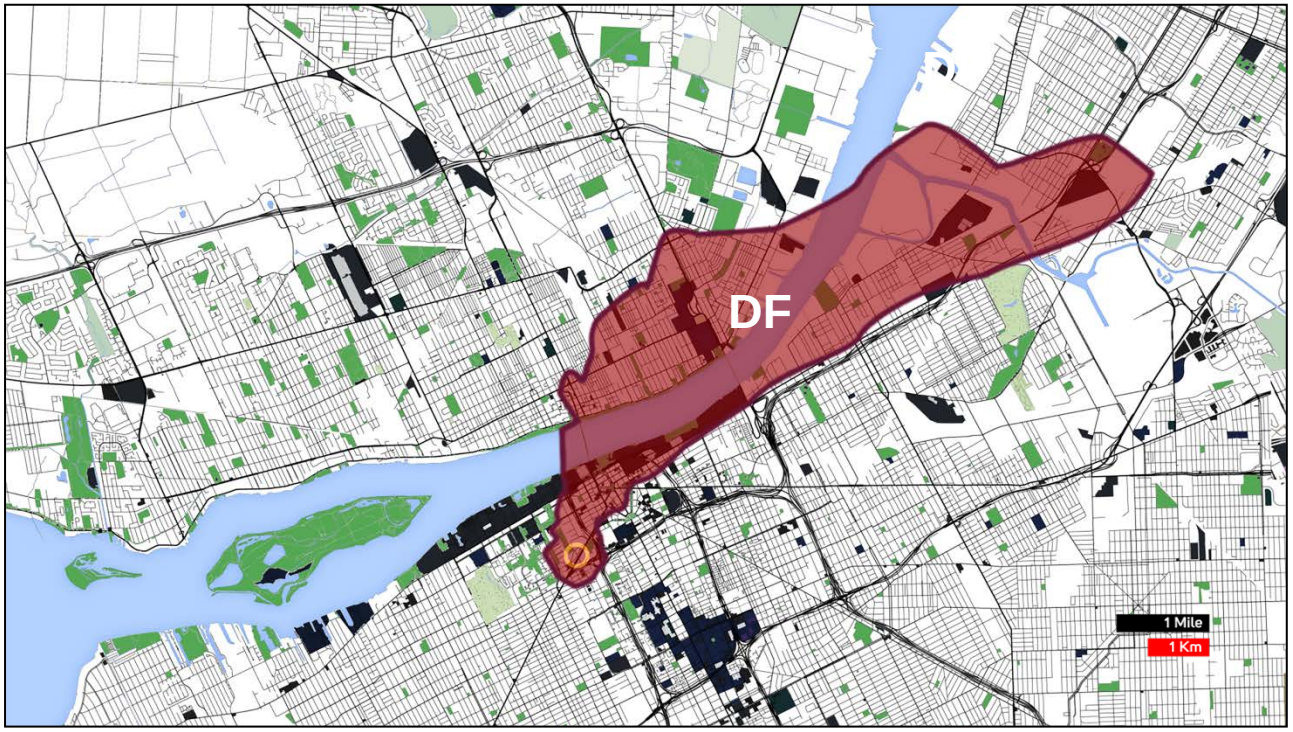
IND Detonation

# 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 km$^2$ 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).**

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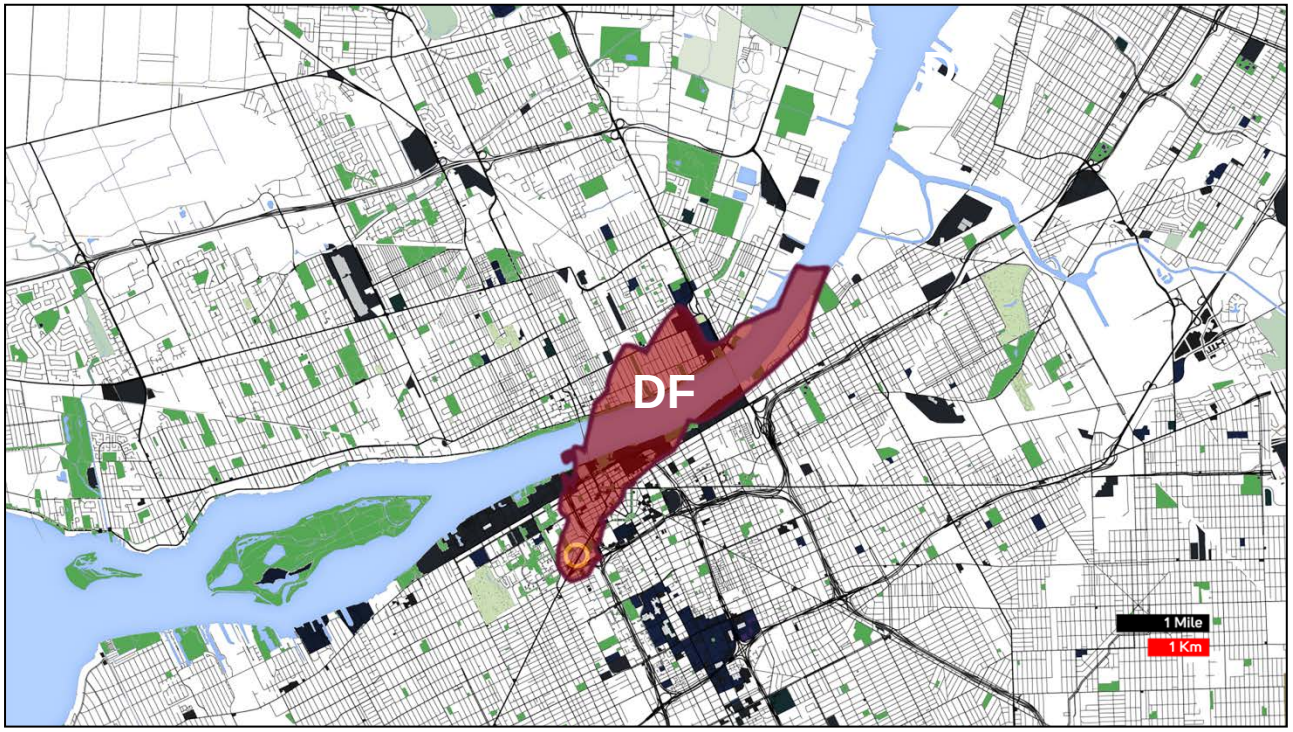


DF

**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 km$^2$ Extent: 8.4 km**

6 hours

after detonation

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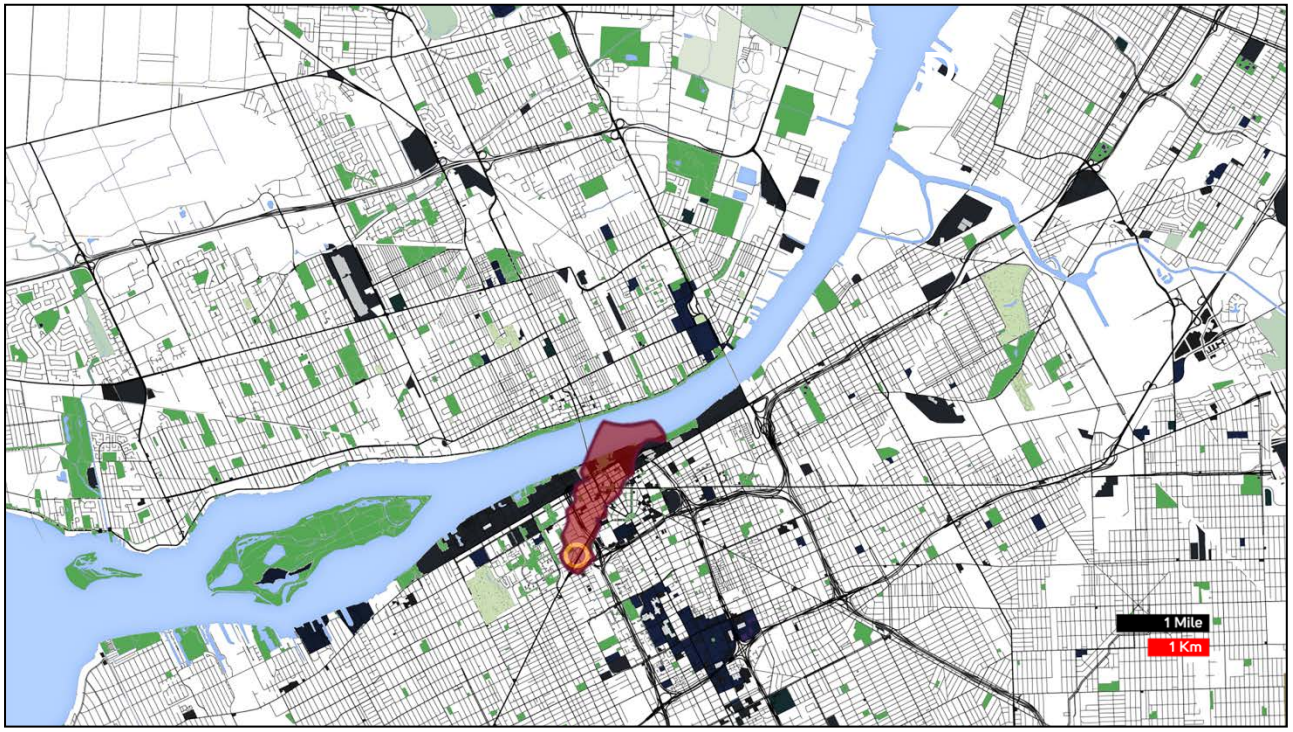


DF

**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 km$^2$ Extent: 3.4 km**

12 hours

after detonation

**Assumptions:**

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- **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.**
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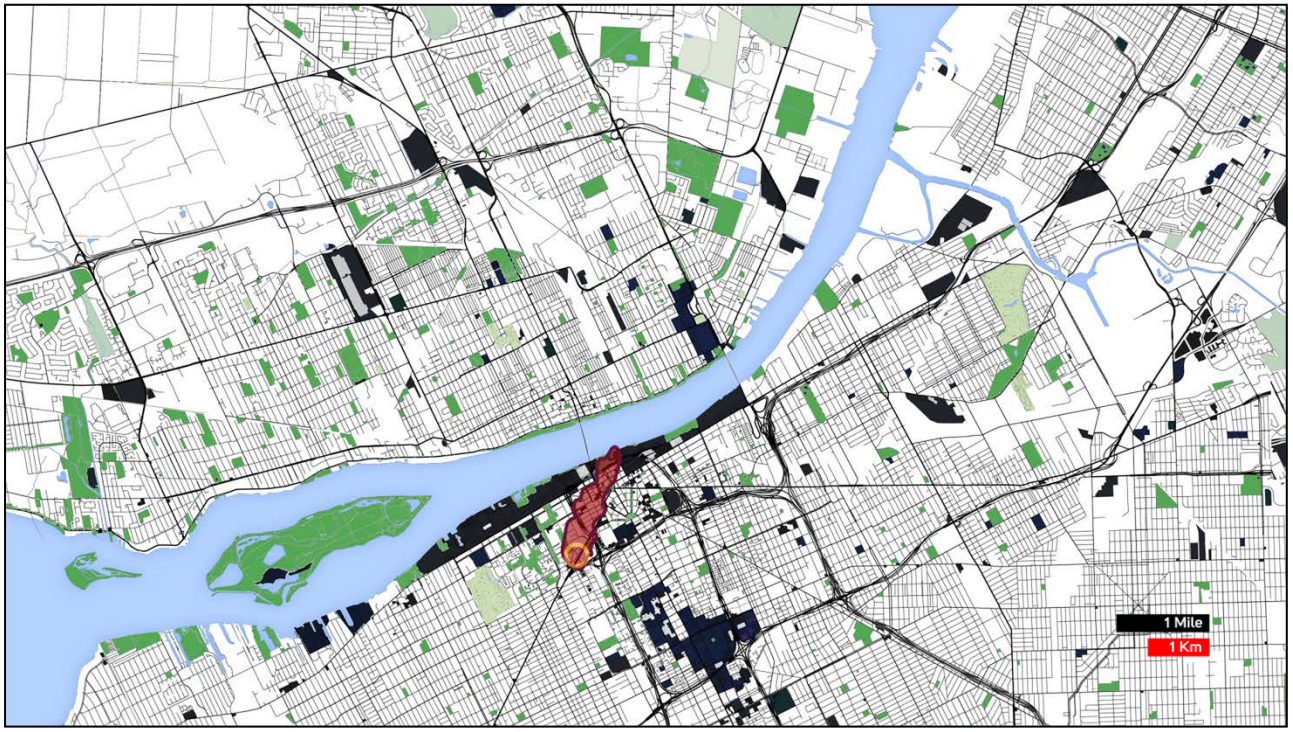


DF

**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 km$^2$ Extent: 2.5 km**

24 hours

after detonation

**Assumptions:**

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- **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.**
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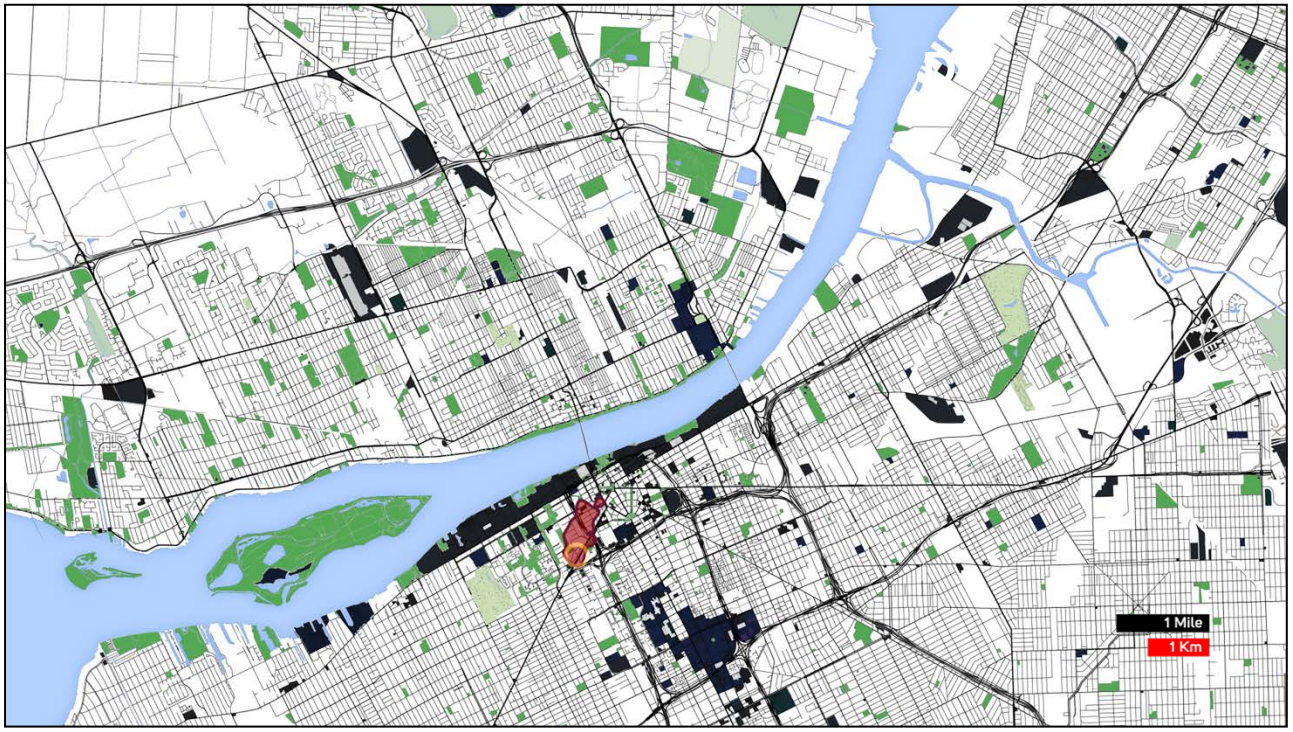


DF

**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 km$^2$ Extent: 1.3 km**

36 hours

after detonation

**Assumptions:**

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- **Model assumes that no shelter or other protective actions have been taken to decrease exposure.**

**Notes:**

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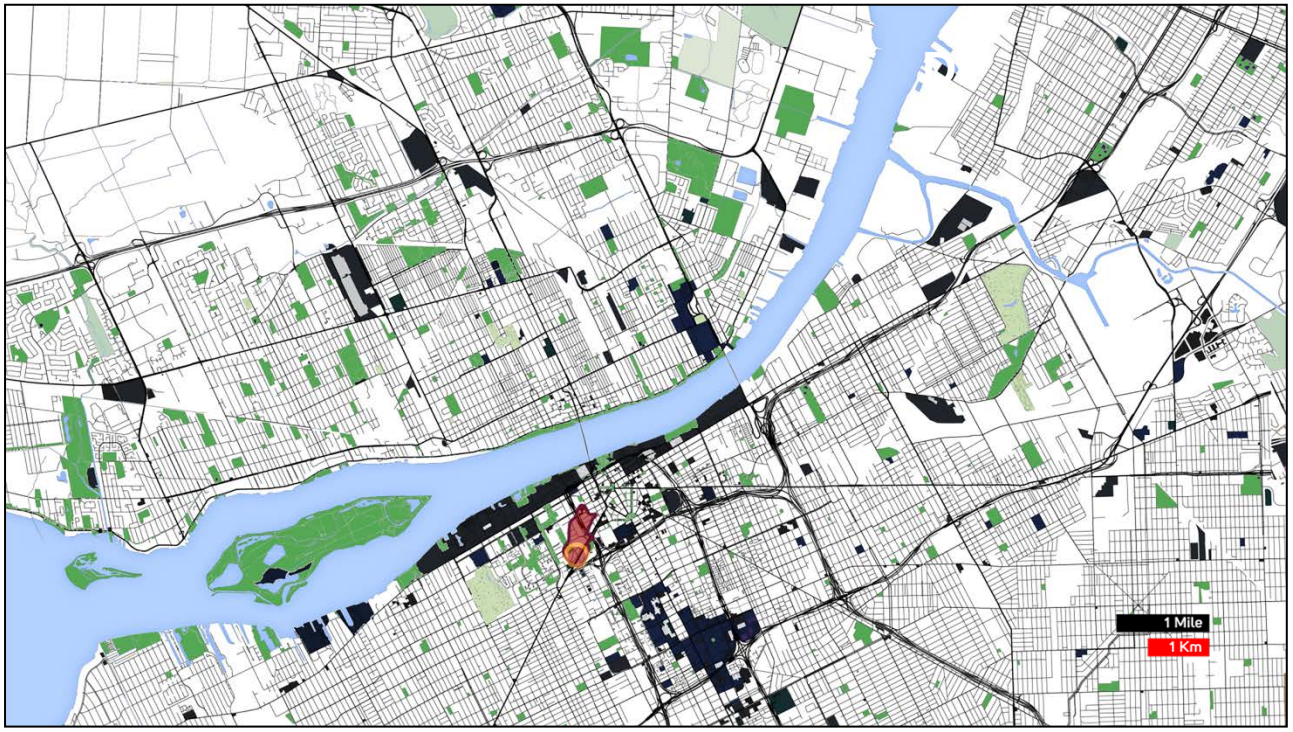


DF

**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 km$^2$ Extent: 1.1 km**

**48** hours

after detonation

**Assumptions:**

- **Assumes 10 kt detonation at 0 ft elevation.**
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- **Model assumes that no shelter or other protective actions have been taken to decrease exposure.**

**Notes:**

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