



2022 YTD

- 50,000 wildfires
- 7 million acres

www.vapor.ucar.edu

Open Source

OSX, Windows, Ubuntu, CentOS

Domain specific for
geophysical sciences



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Causes

- Rising temperatures
- Declining snowpack
- Frequent droughts



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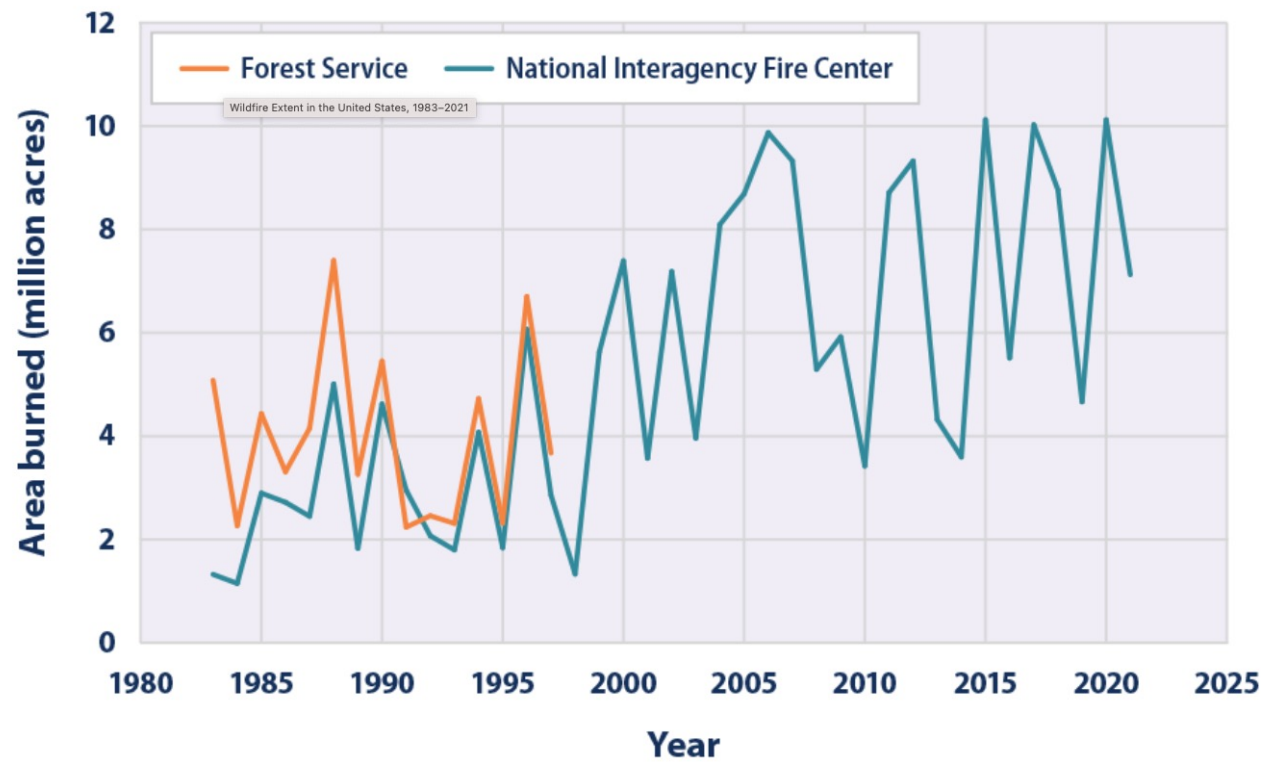
Causes

- Rising temperatures
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Effects

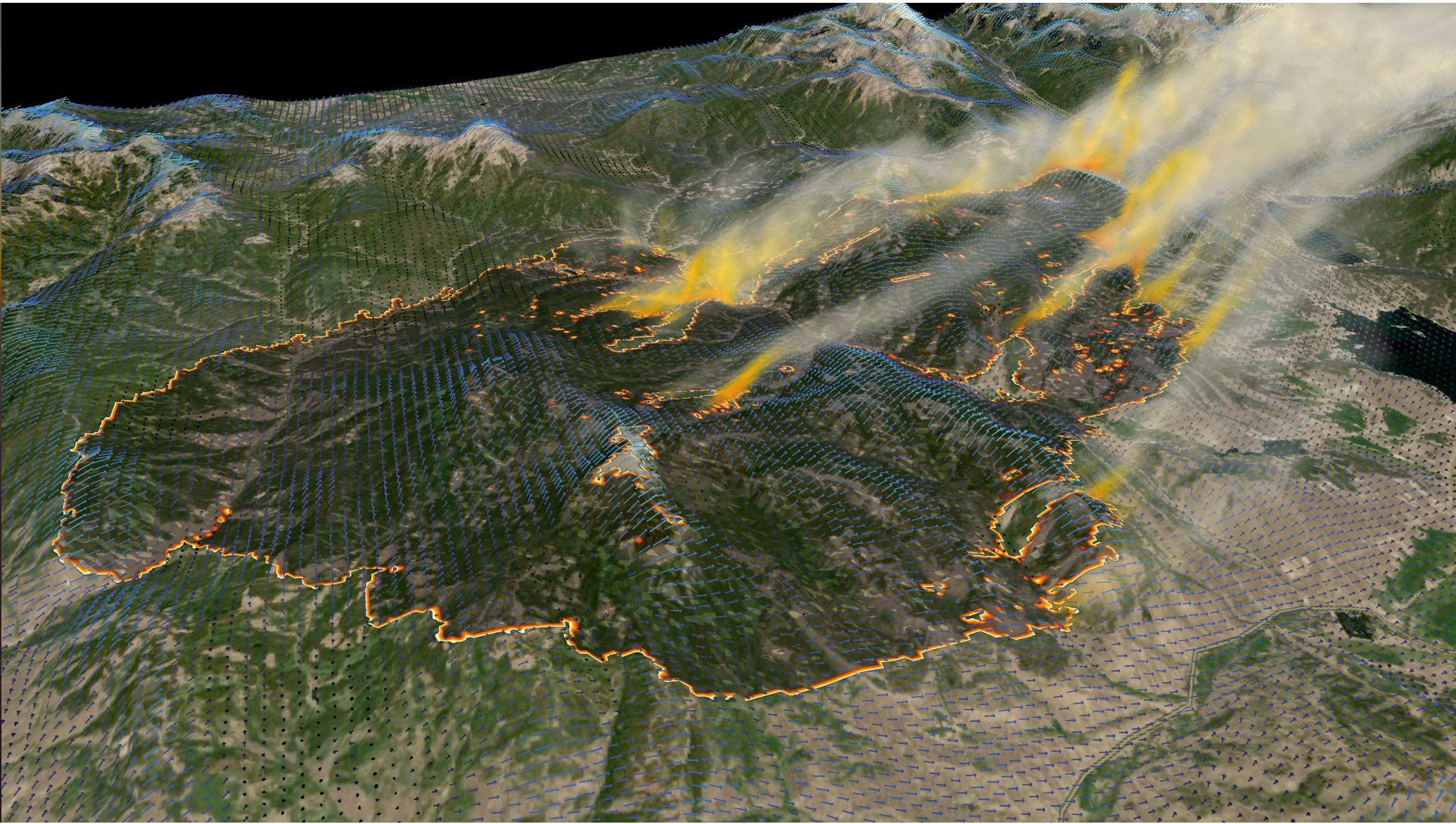
- Burn scars
- Water supply impairment
- Economic disruption
- Threatening lives and property
- Altering our landscape for generations

Figure 2. Wildfire Extent in the United States, 1983–2021



<https://www.epa.gov/climate-indicators/climate-change-indicators-wildfires#ref23>







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Renderers:

Image

2D Data

Volume

Barbs

Python API for scripting



Dam, Spillway, Weir Hydraulics

VERY DANGEROUS

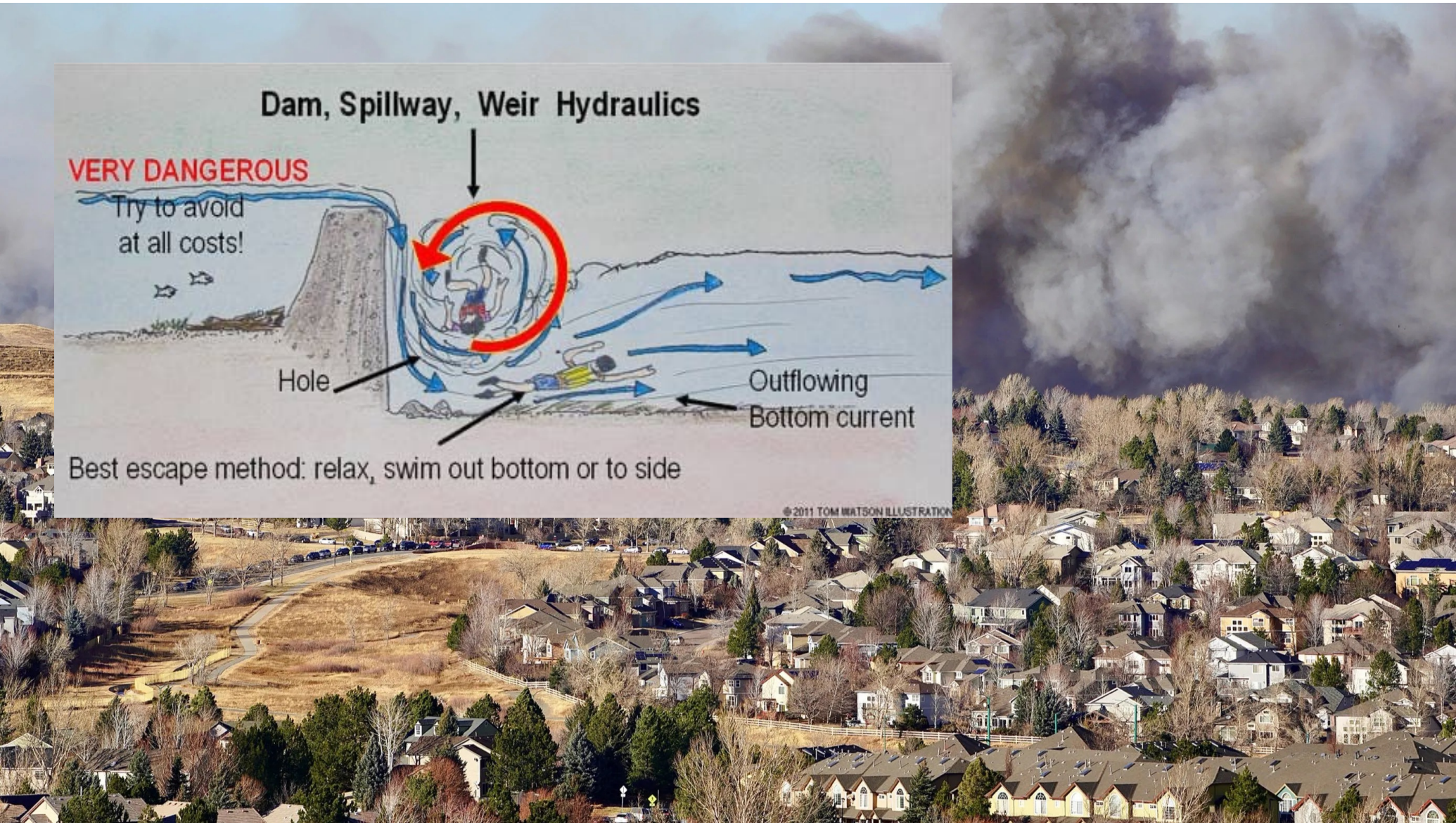
Try to avoid
at all costs!

Hole

Outflowing
Bottom current

Best escape method: relax, swim out bottom or to side

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Dam, Spillway, Weir Hydraulics

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Hole

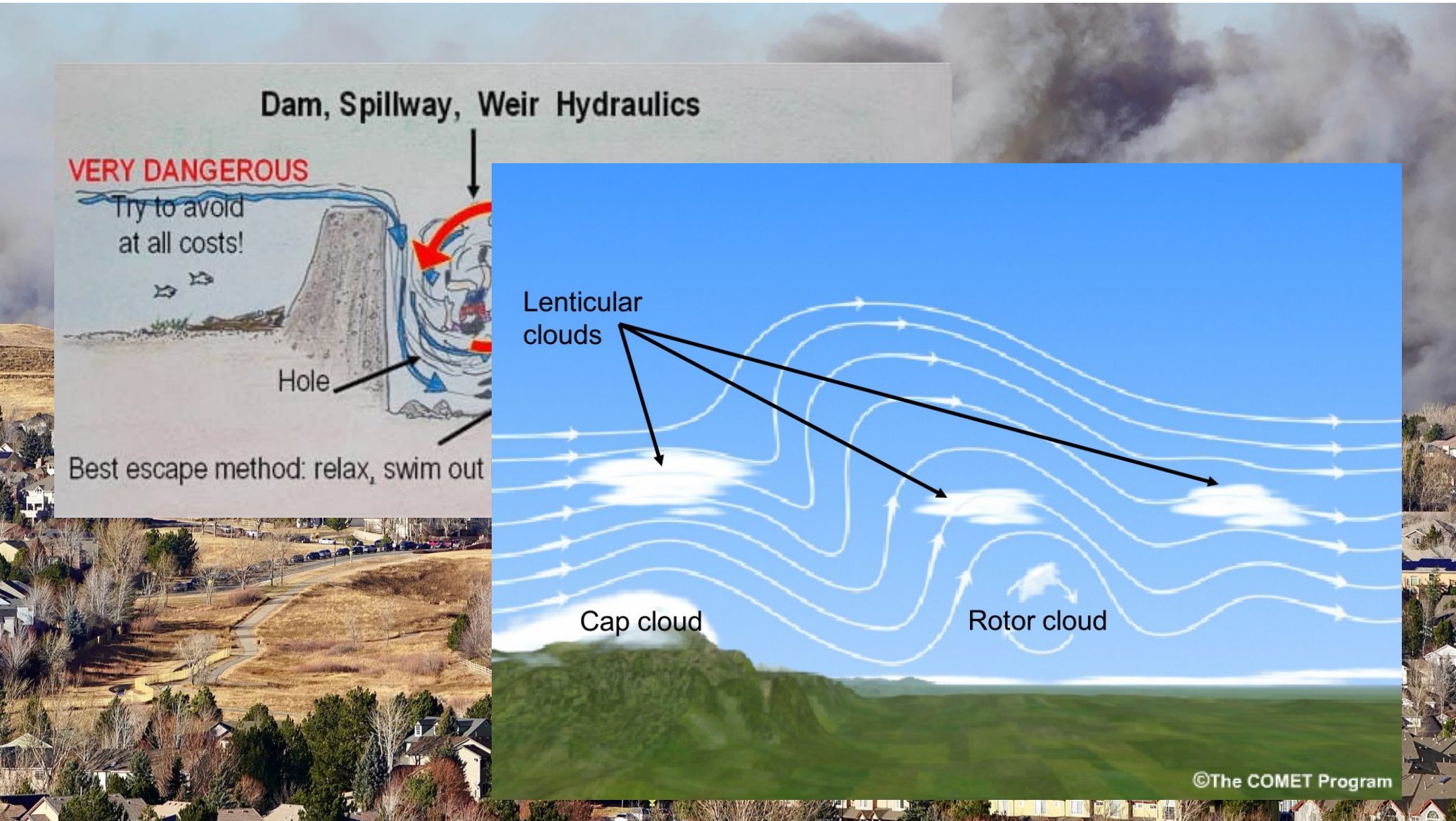
Best escape method: relax, swim out

Lenticular
clouds

Cap cloud

Rotor cloud

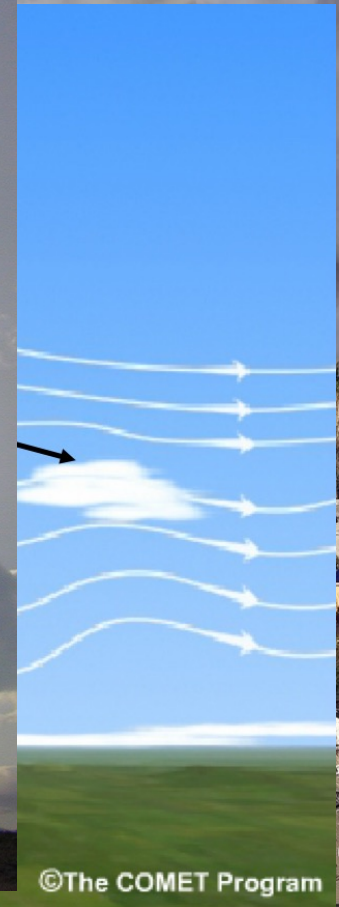
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VERY DANGEROUS

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Best escape



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