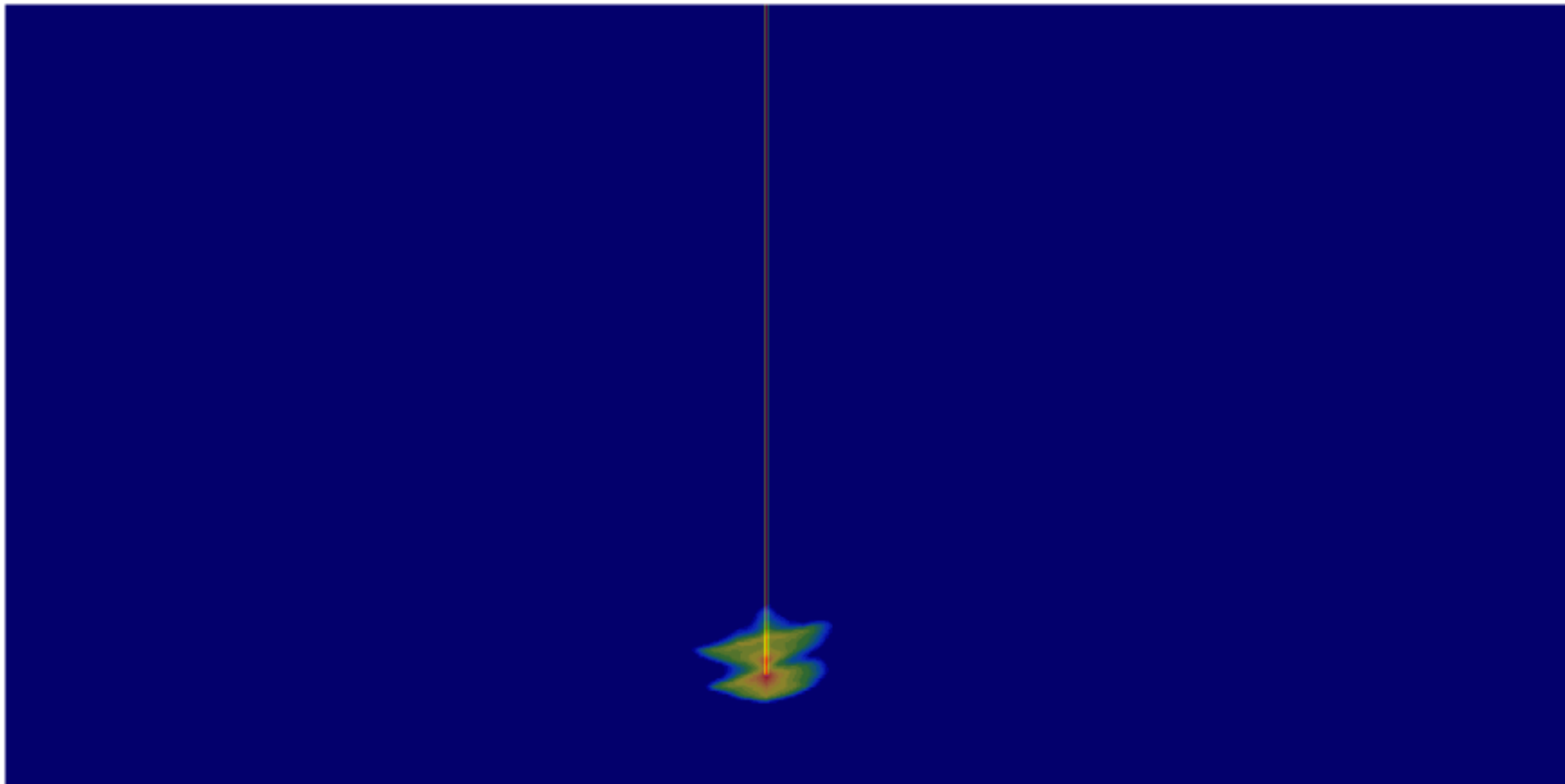




SLIM







ground-truth CO<sub>2</sub> plume

**oldserverdseismic**

**3.2knn**

15kn

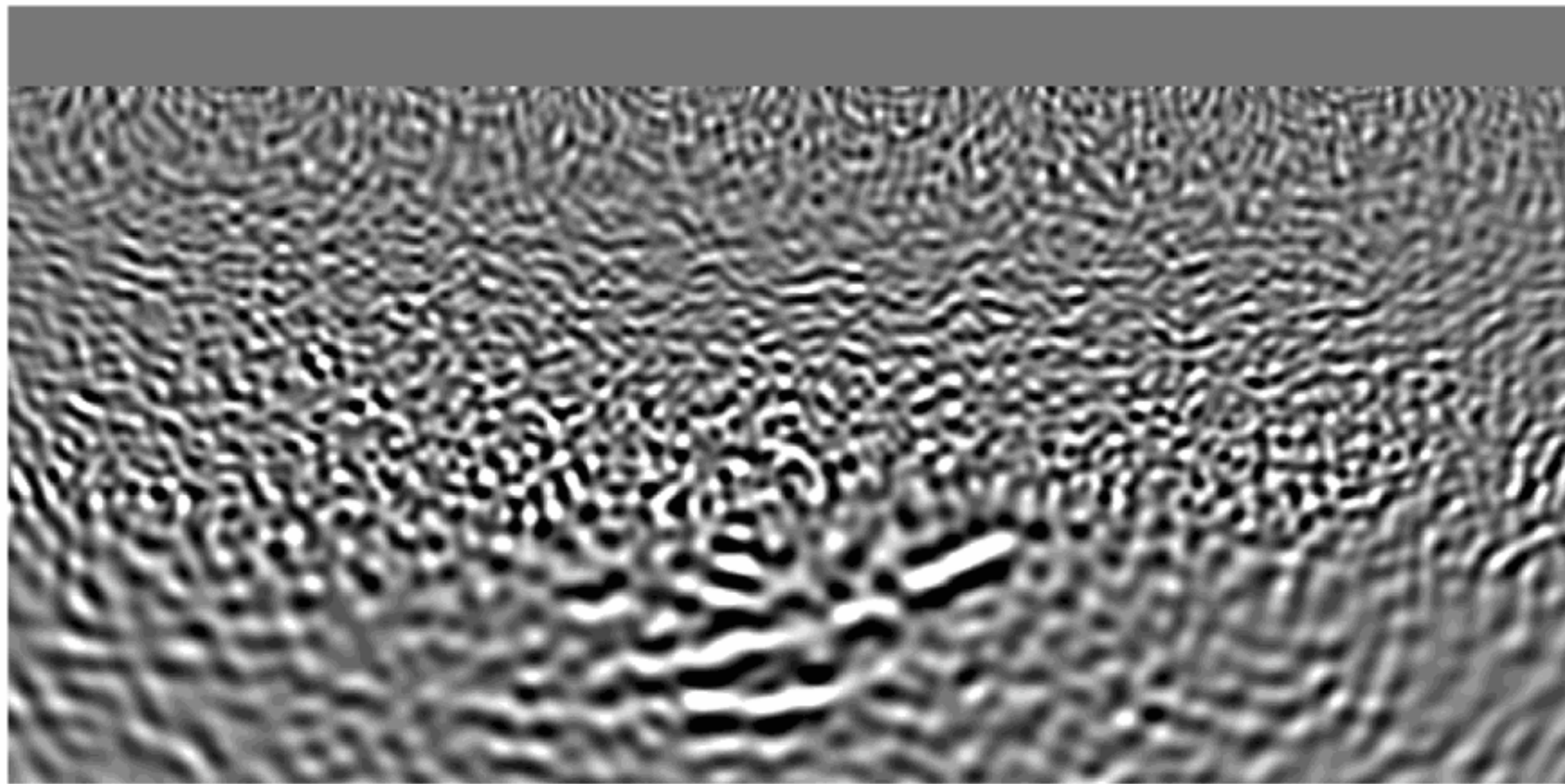


**O**

**K**

**nn**

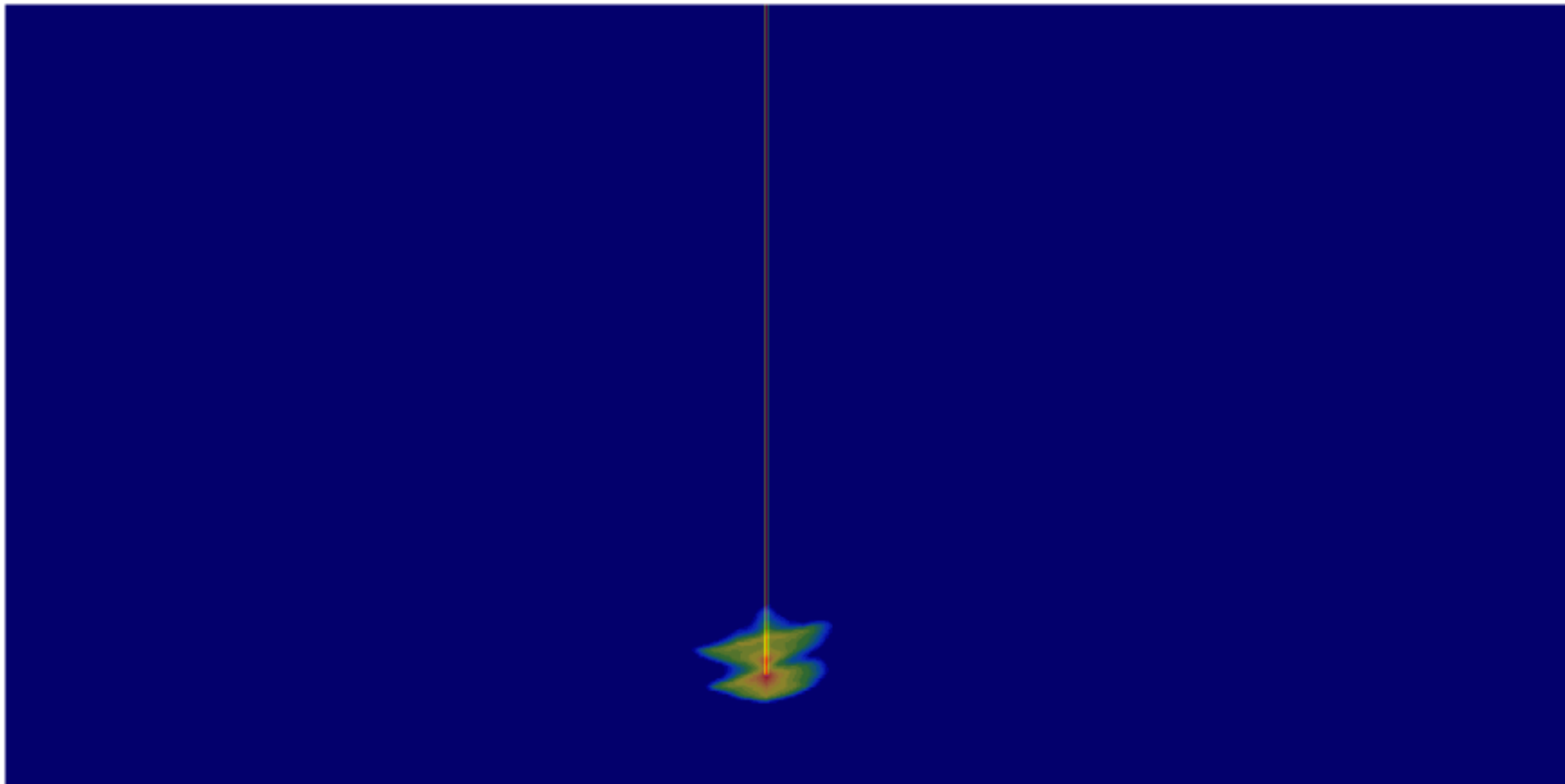
$\bar{y}_0$   
1:6:24

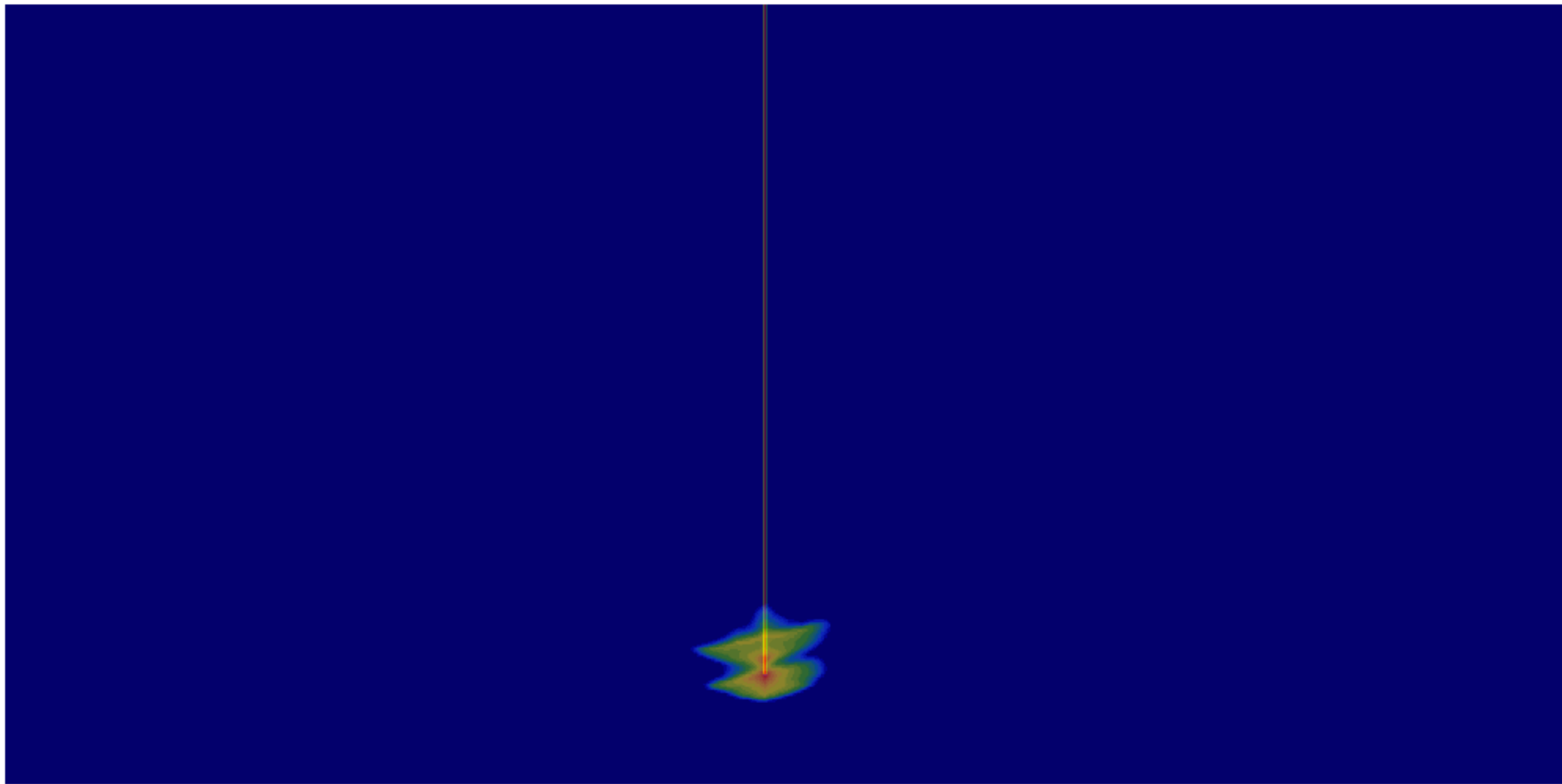


Ground-truth & observations

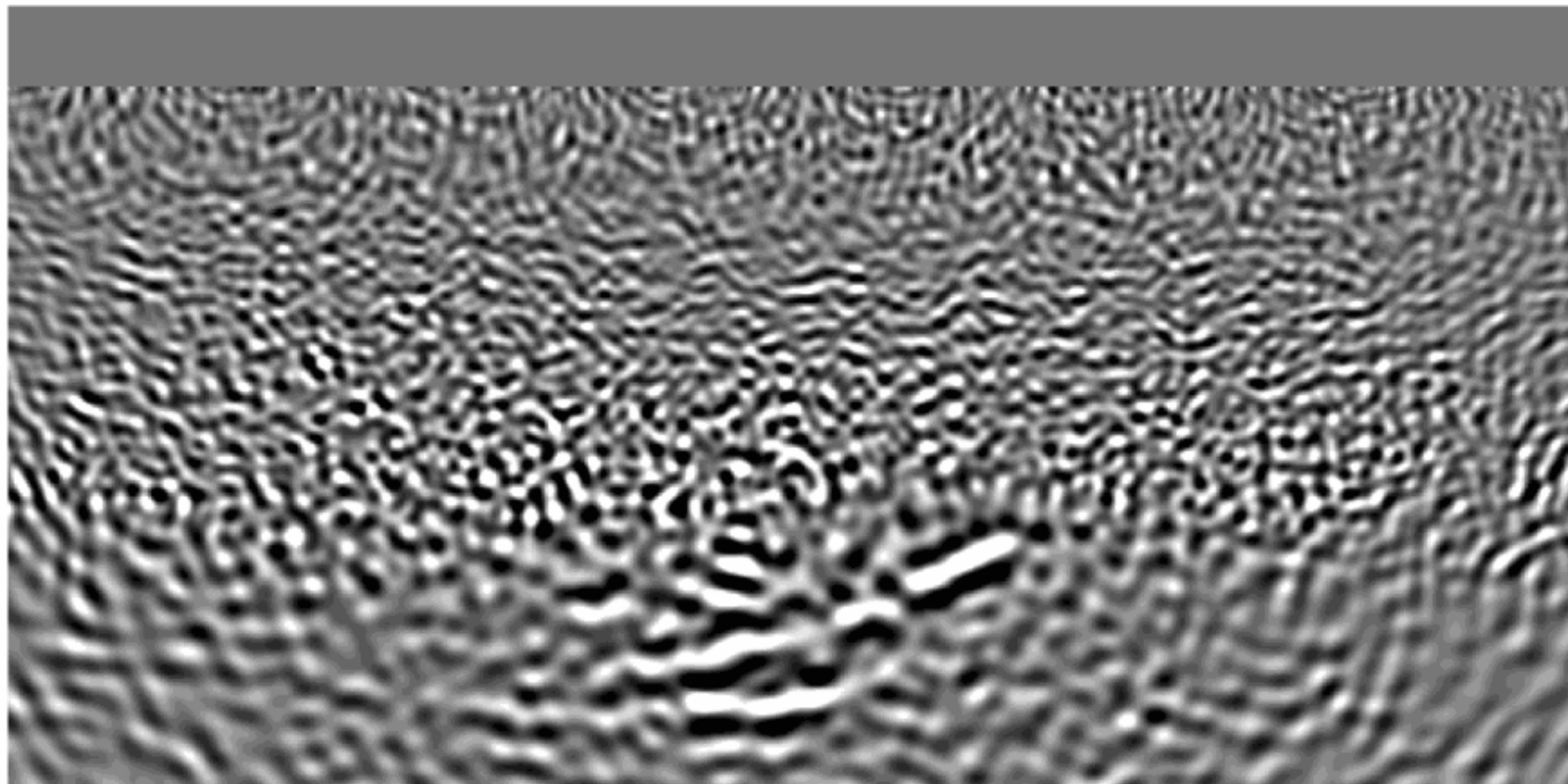
plumes & imaged seismic

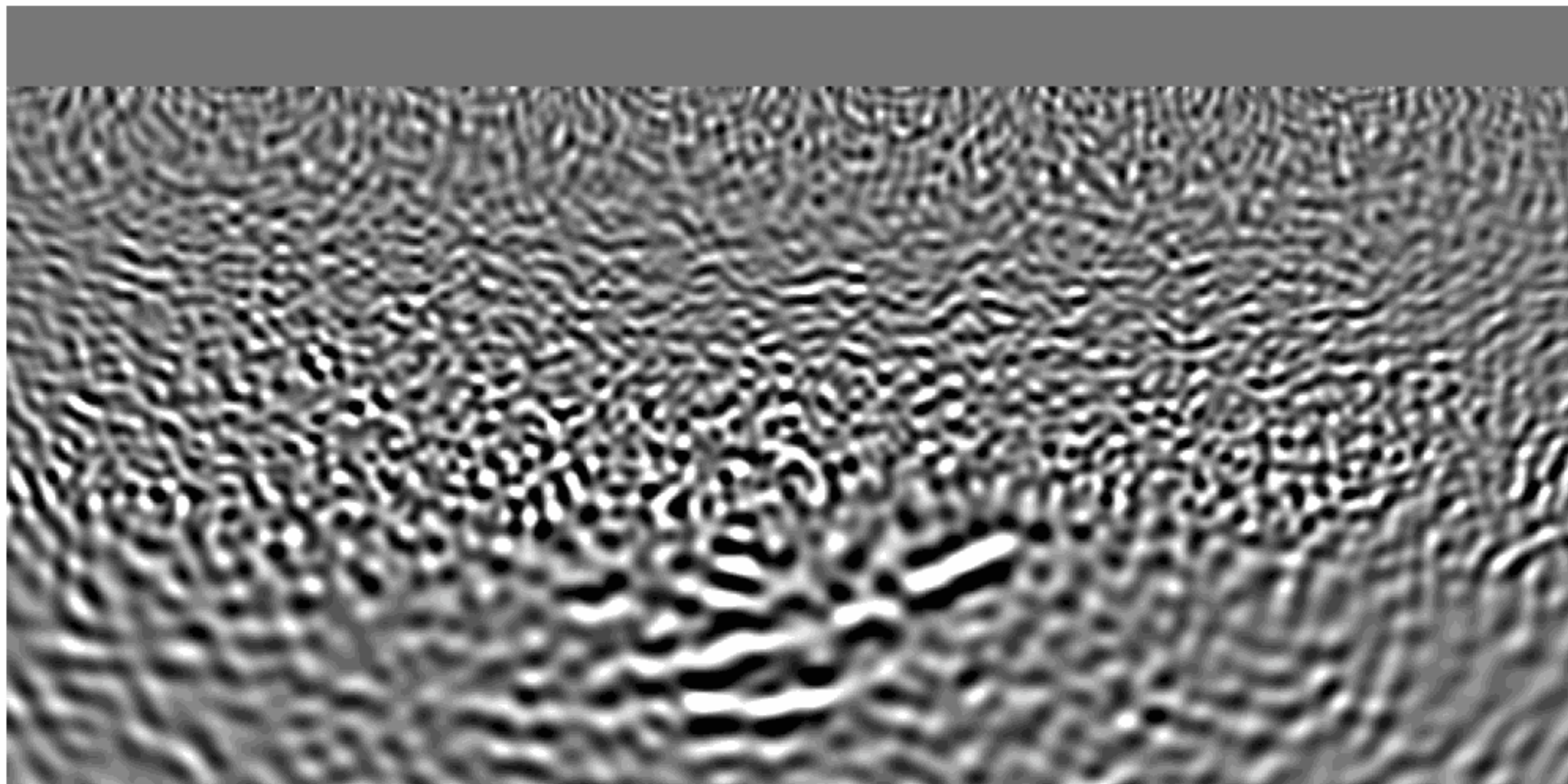
**X** \*  
**1:24**











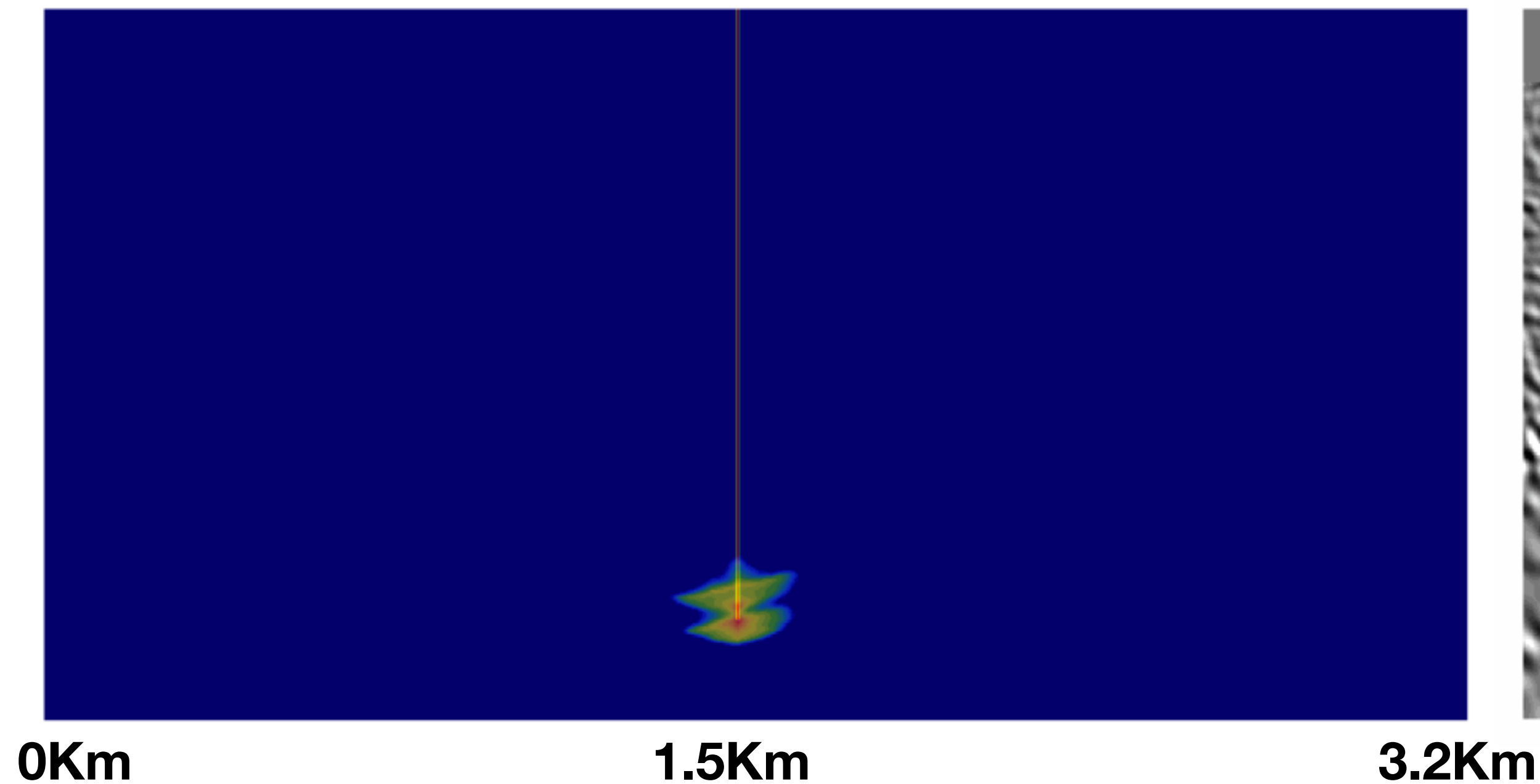


# Ground-truth & observations

## plumes & imaged seismic

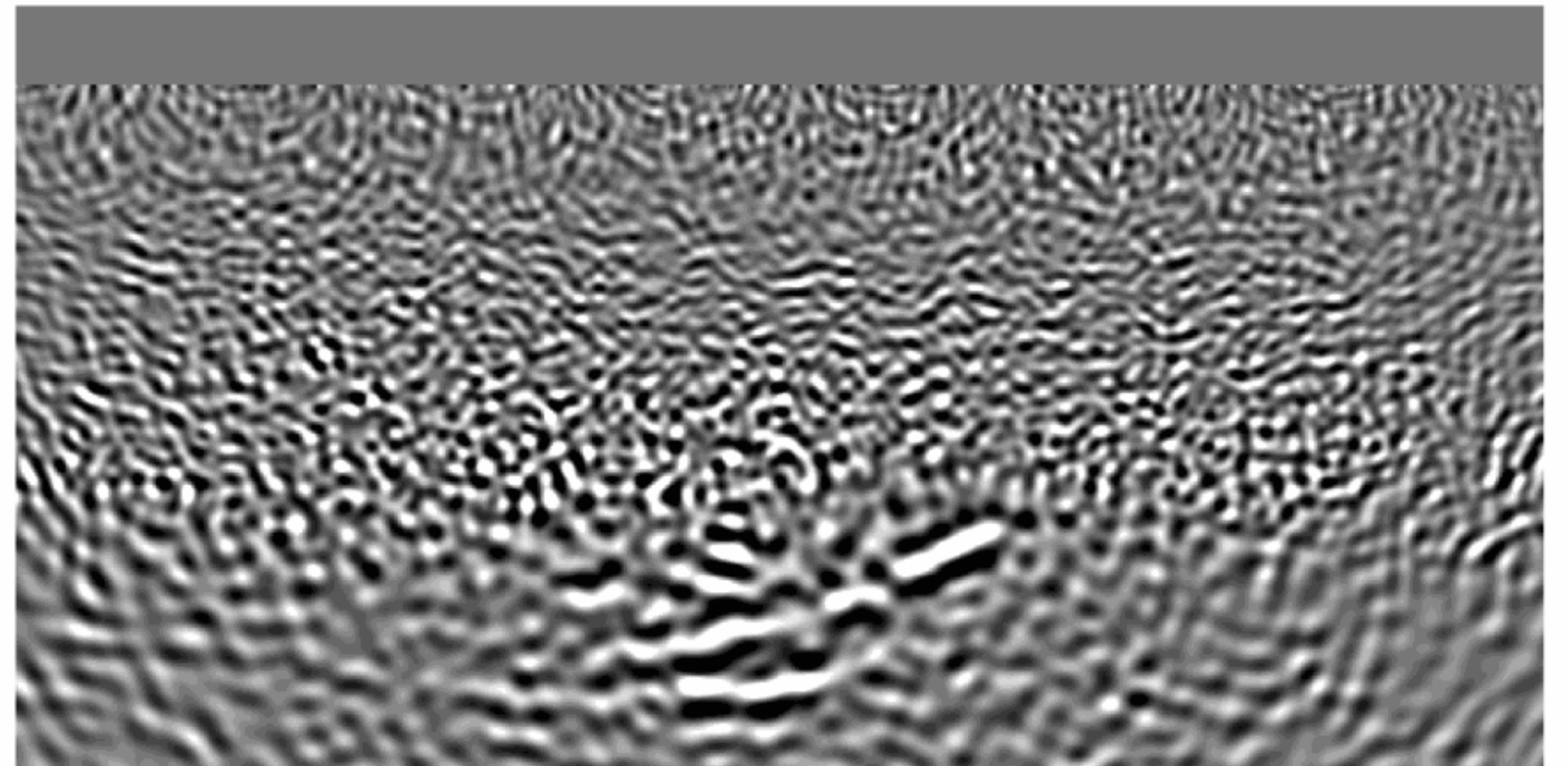
ground-truth CO<sub>2</sub> plume

$\mathbf{x}_{1:24}^*$



observed seismic

$\bar{\mathbf{y}}_{1:6:24}^0$

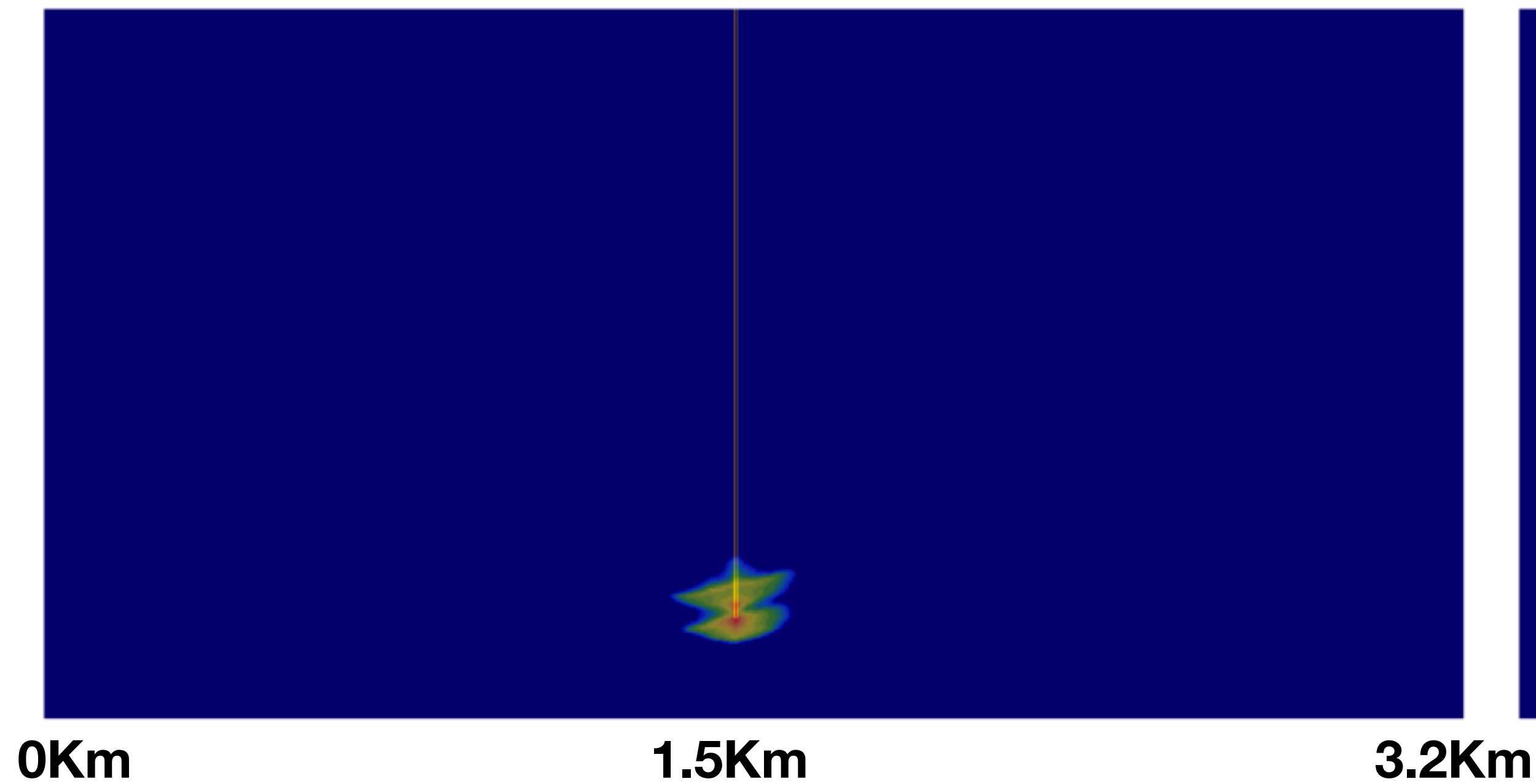


# Assimilated plumes

ground-truth vs. inferred CO<sub>2</sub> plumes

ground-truth CO<sub>2</sub> plumes

$$\mathbf{x}_{1:24}^*$$



CO<sub>2</sub> plumes inferred w/ seismic

$$\mathbb{E}[p(\mathbf{x}_{1:24} | \bar{\mathbf{y}}_{1:6:24}^0)]$$

