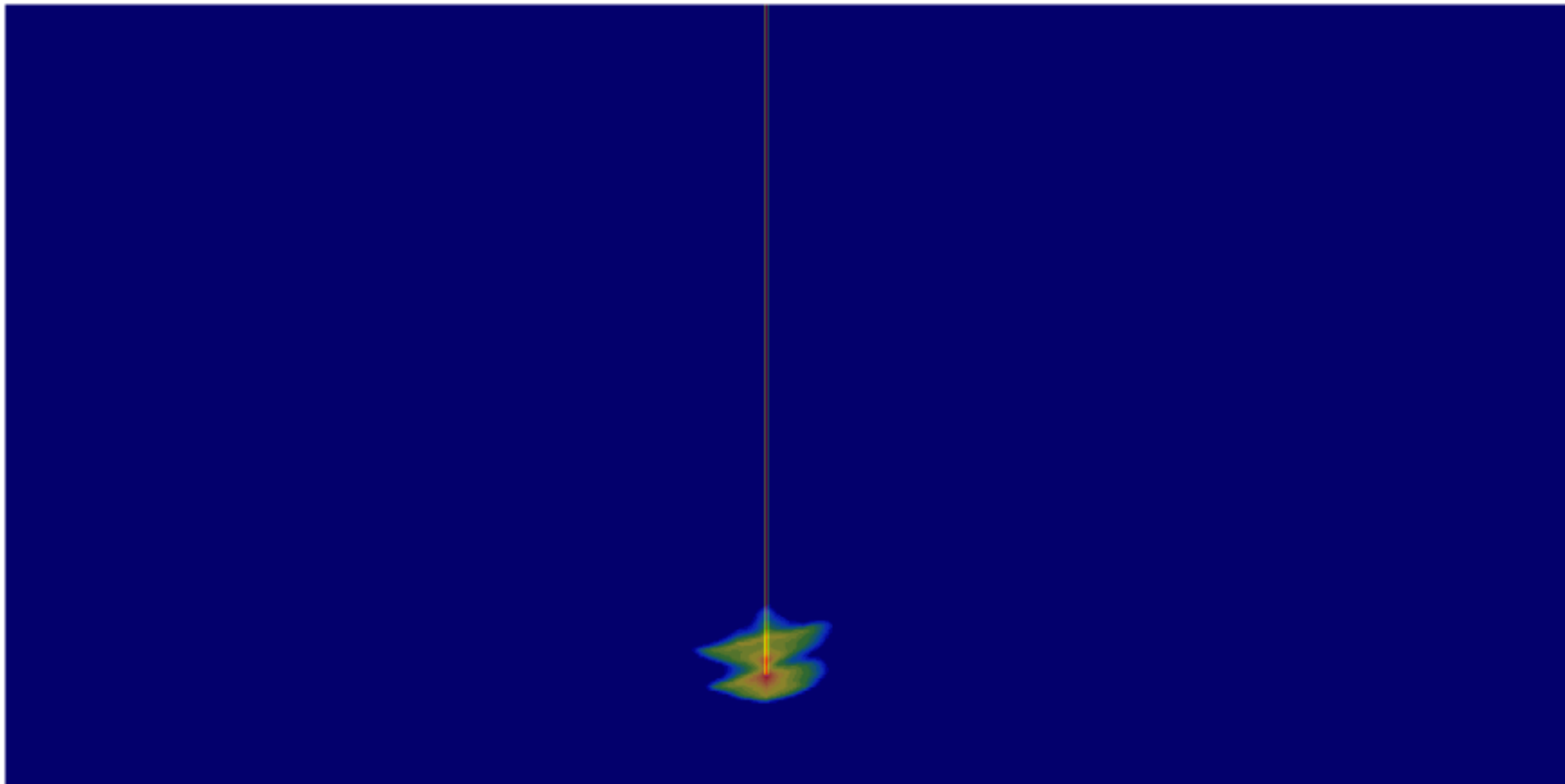


SLIM







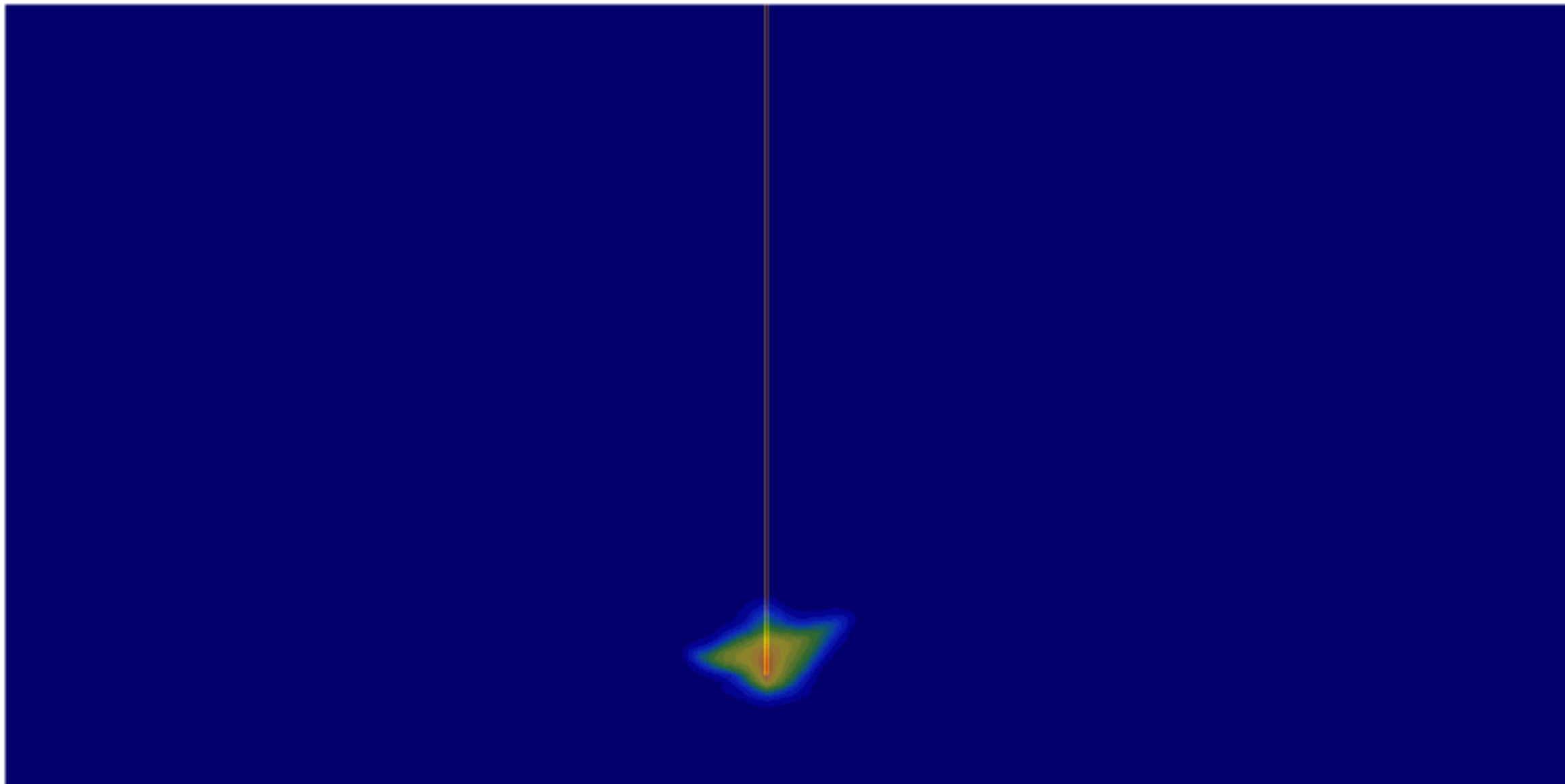
3.2knn

15kn

O

K

nn



ground-truth CO₂ plumes

CC0 public domain inferred v/ seismic

X

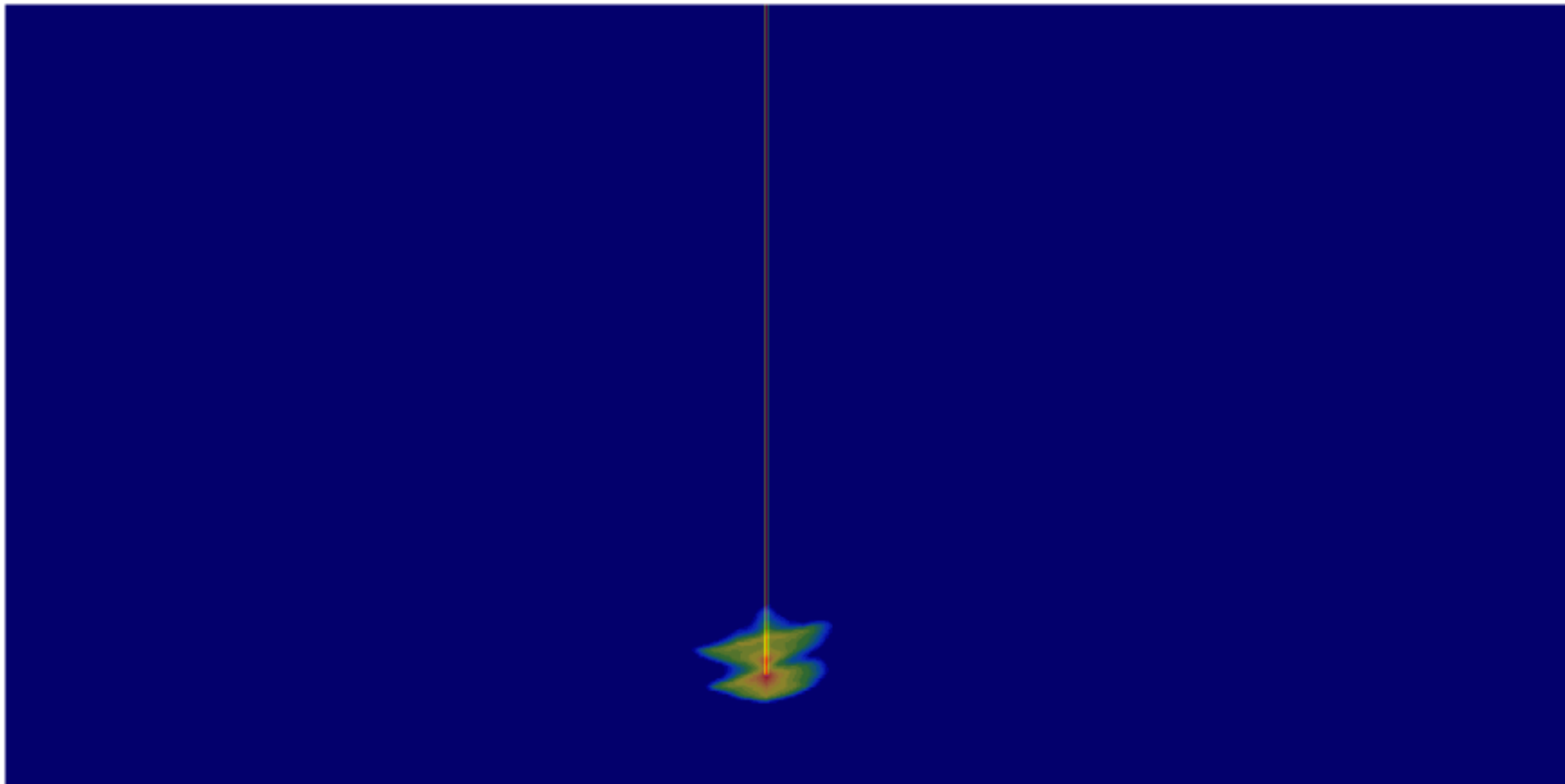


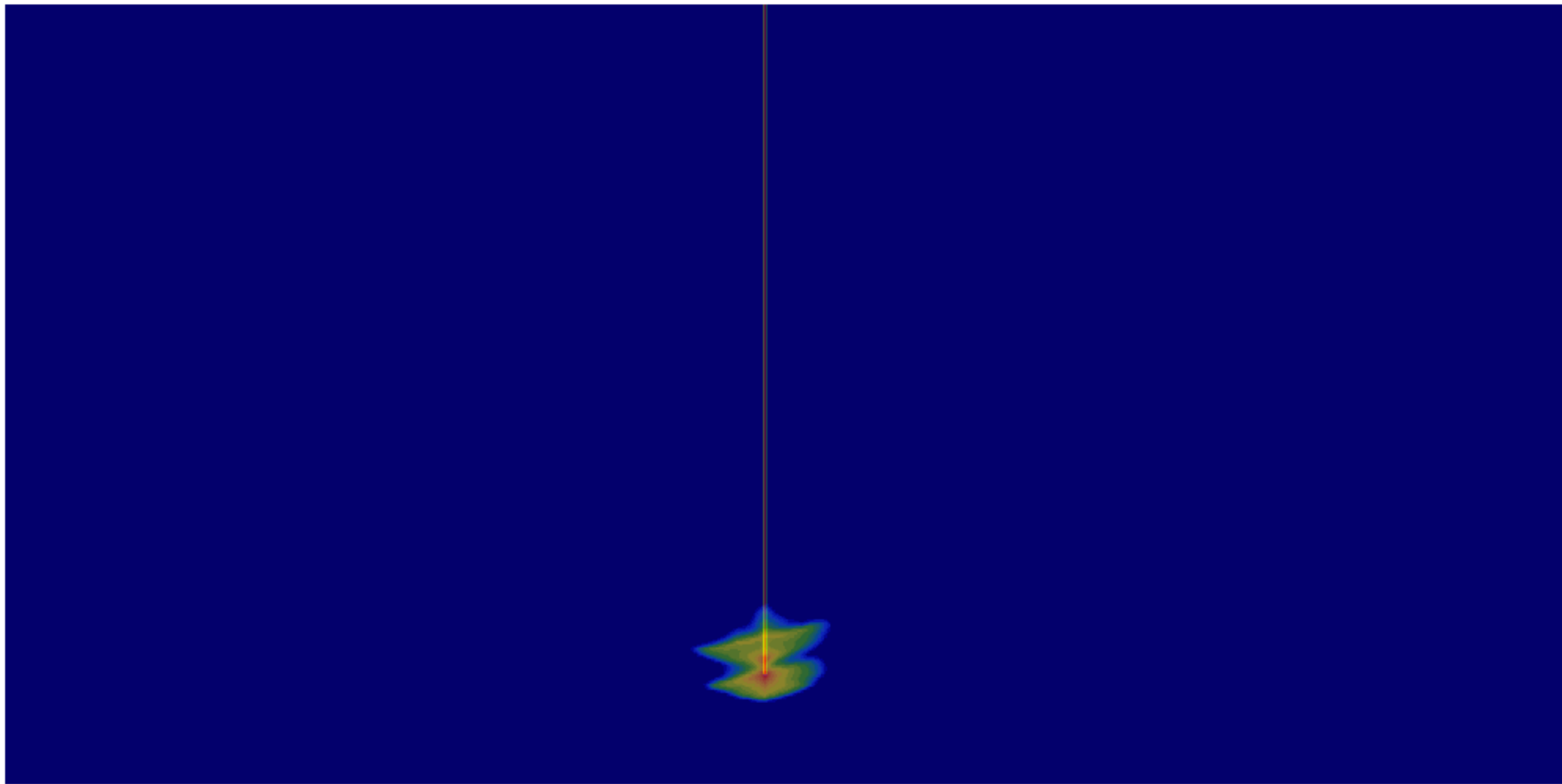
1:24

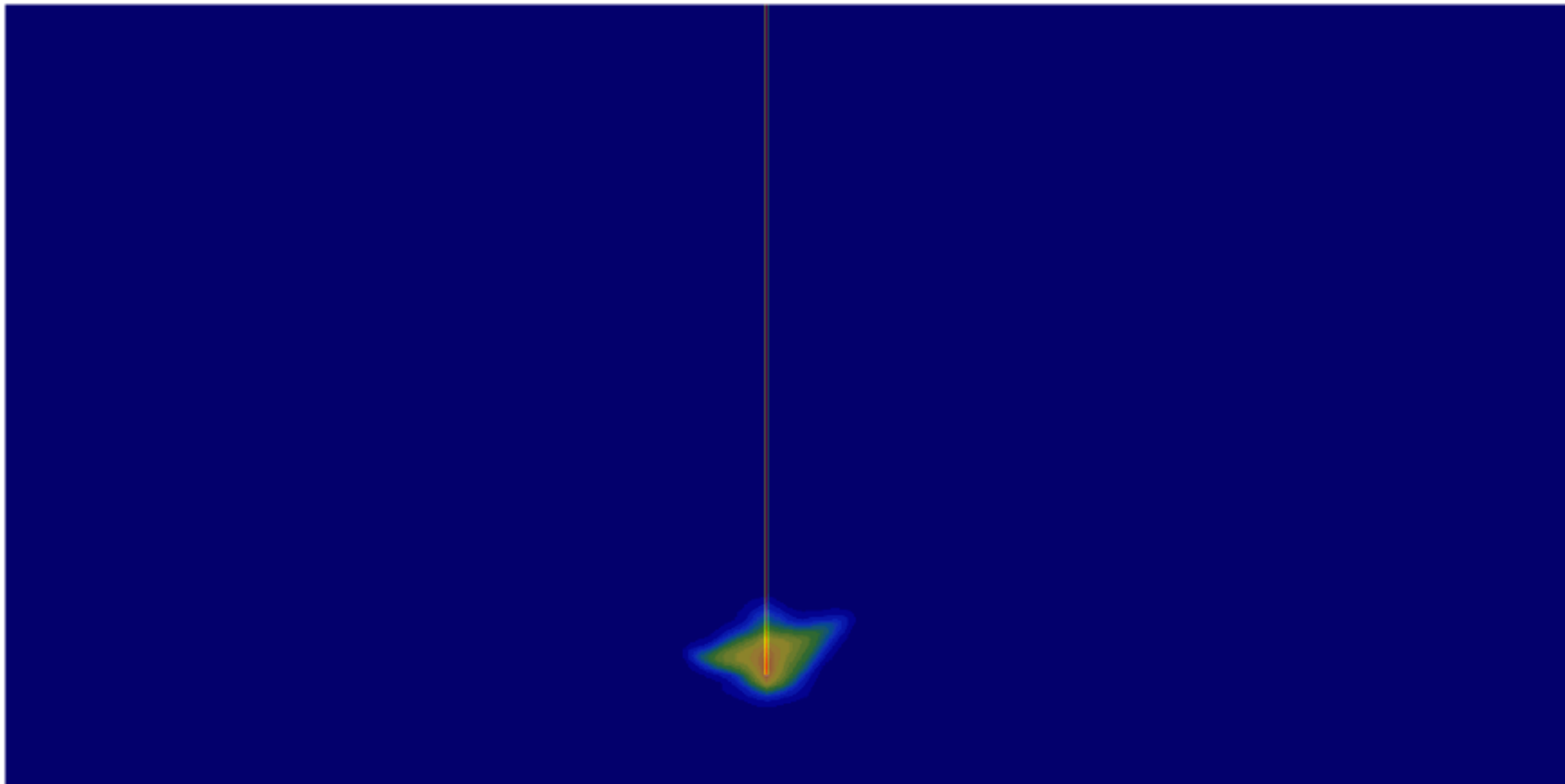
$$\mathbb{E}[p(\mathbf{x}_{1:24}|\bar{\mathbf{y}}^0_{1:6:24})]$$

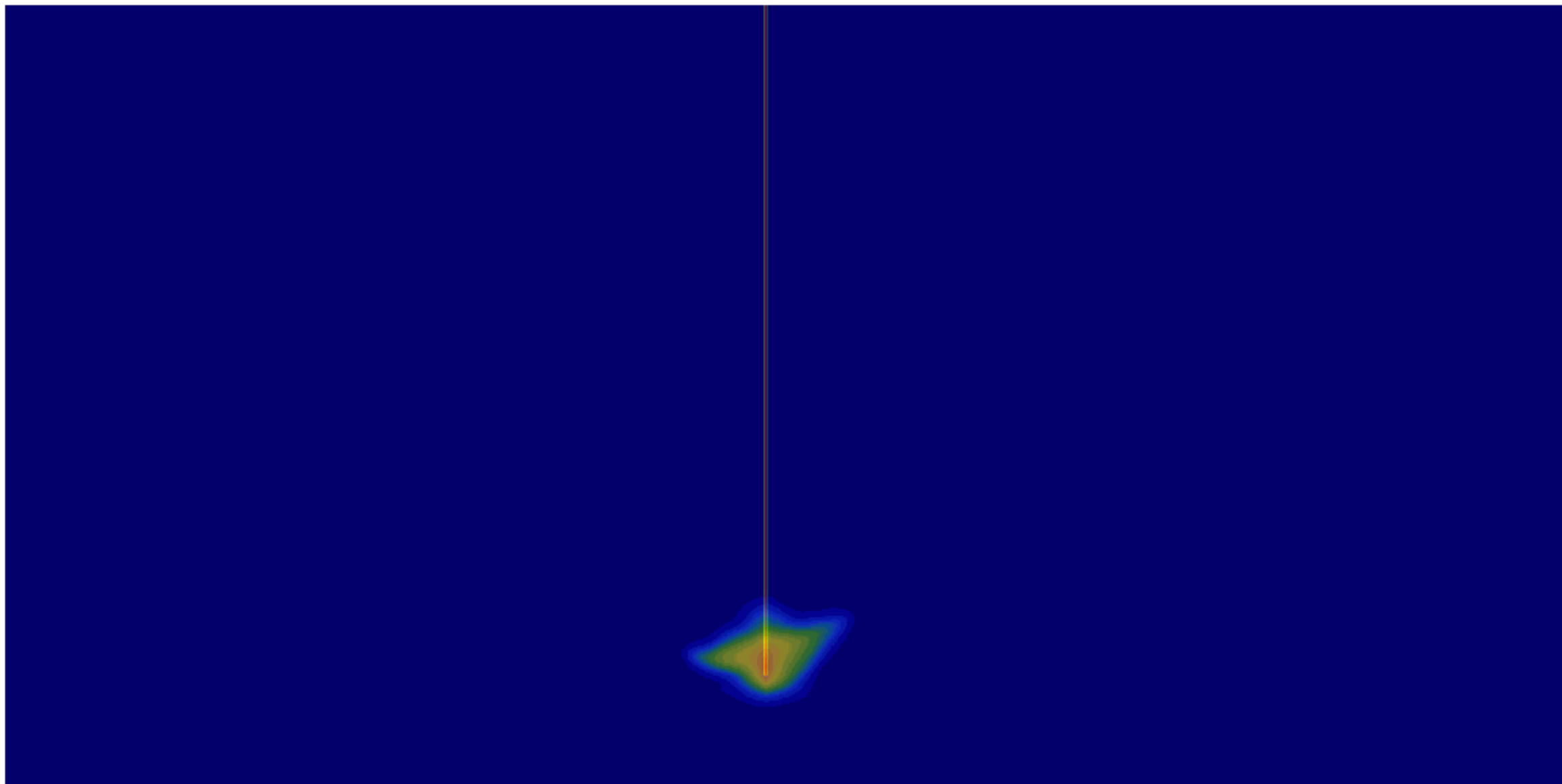
Assimilated plurmes

ground-truth vs. inferred CO_2 plumes







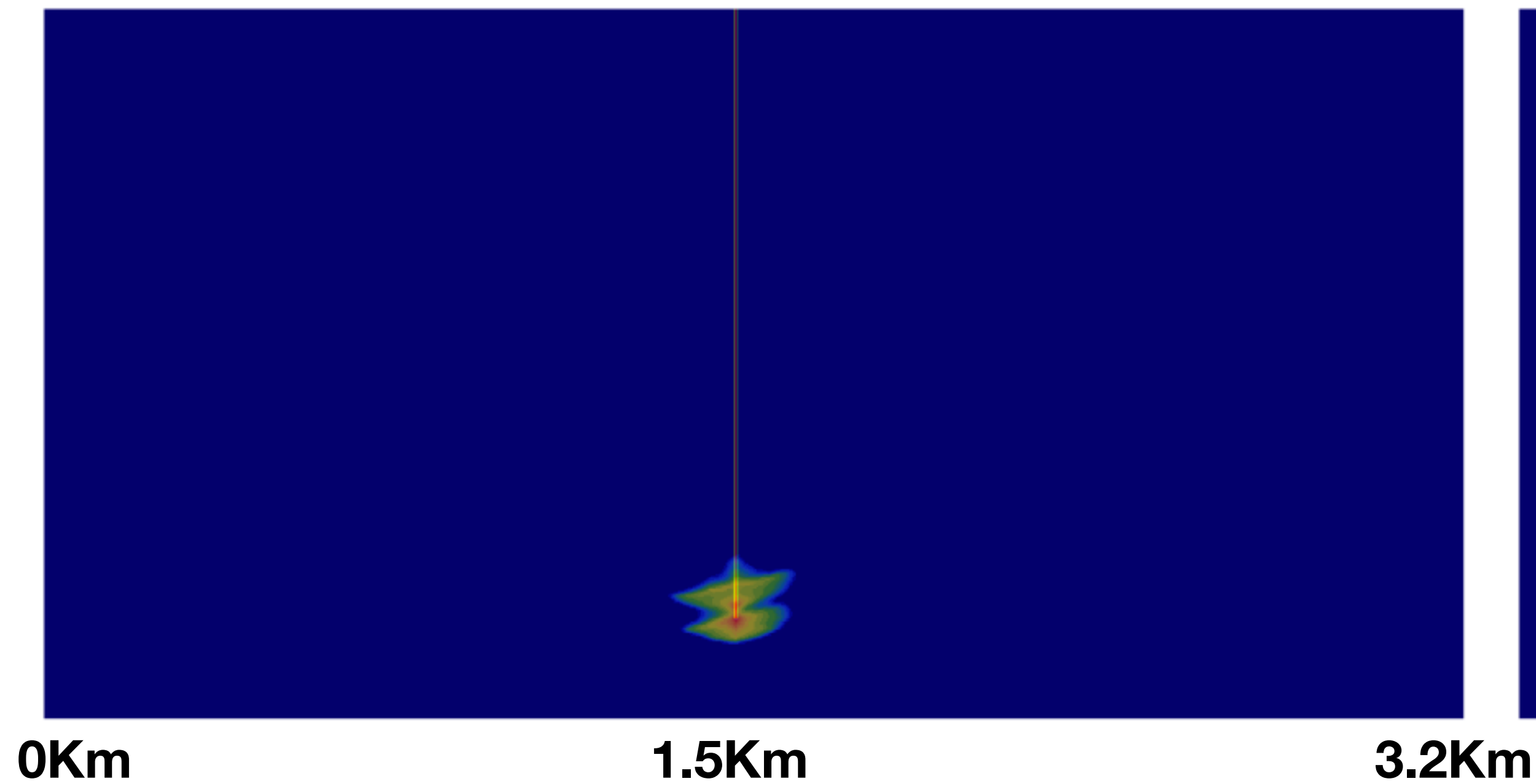


Assimilated plumes

ground-truth vs. inferred CO₂ plumes

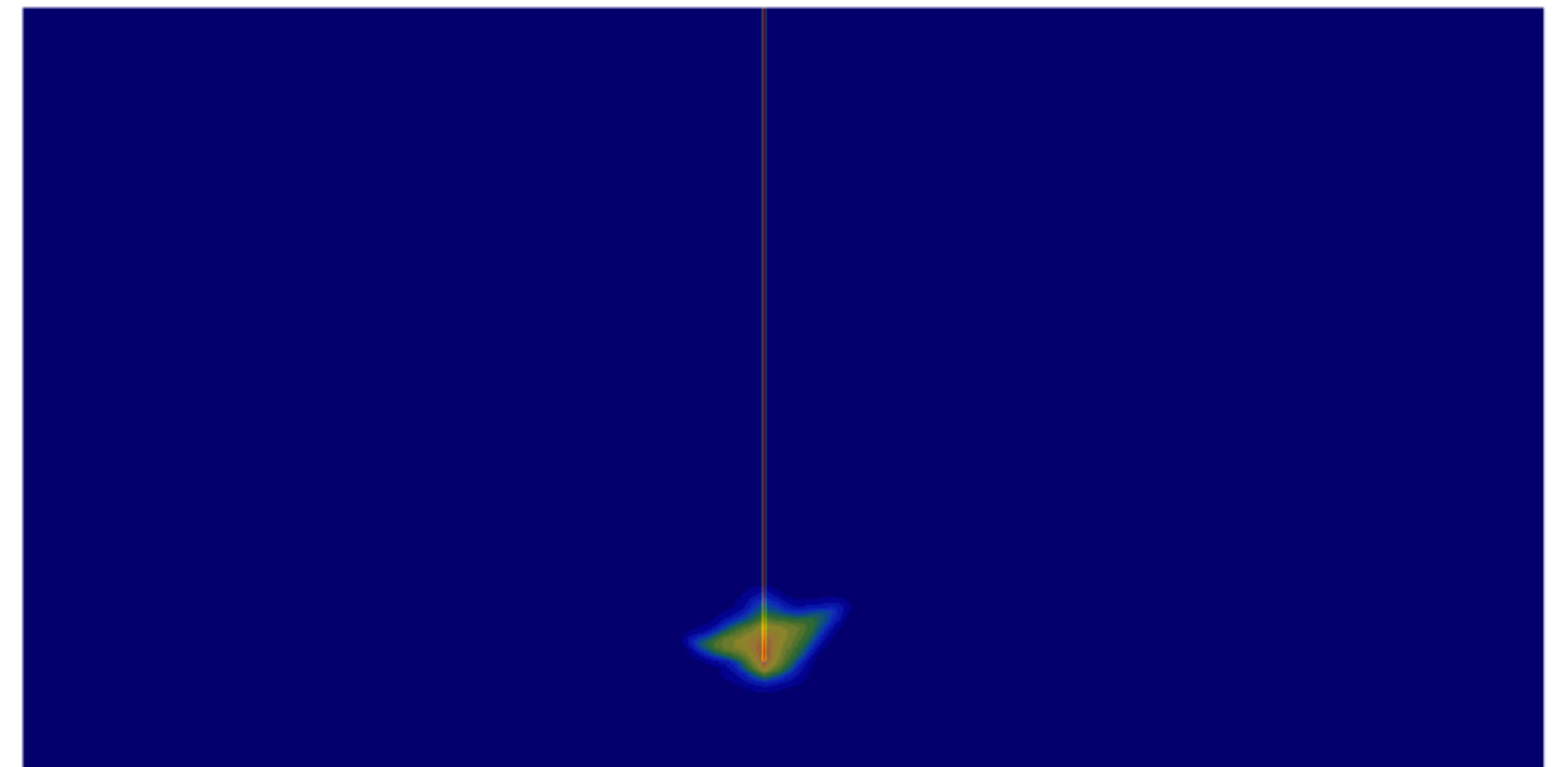
ground-truth CO₂ plumes

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



CO₂ plumes inferred w/ seismic

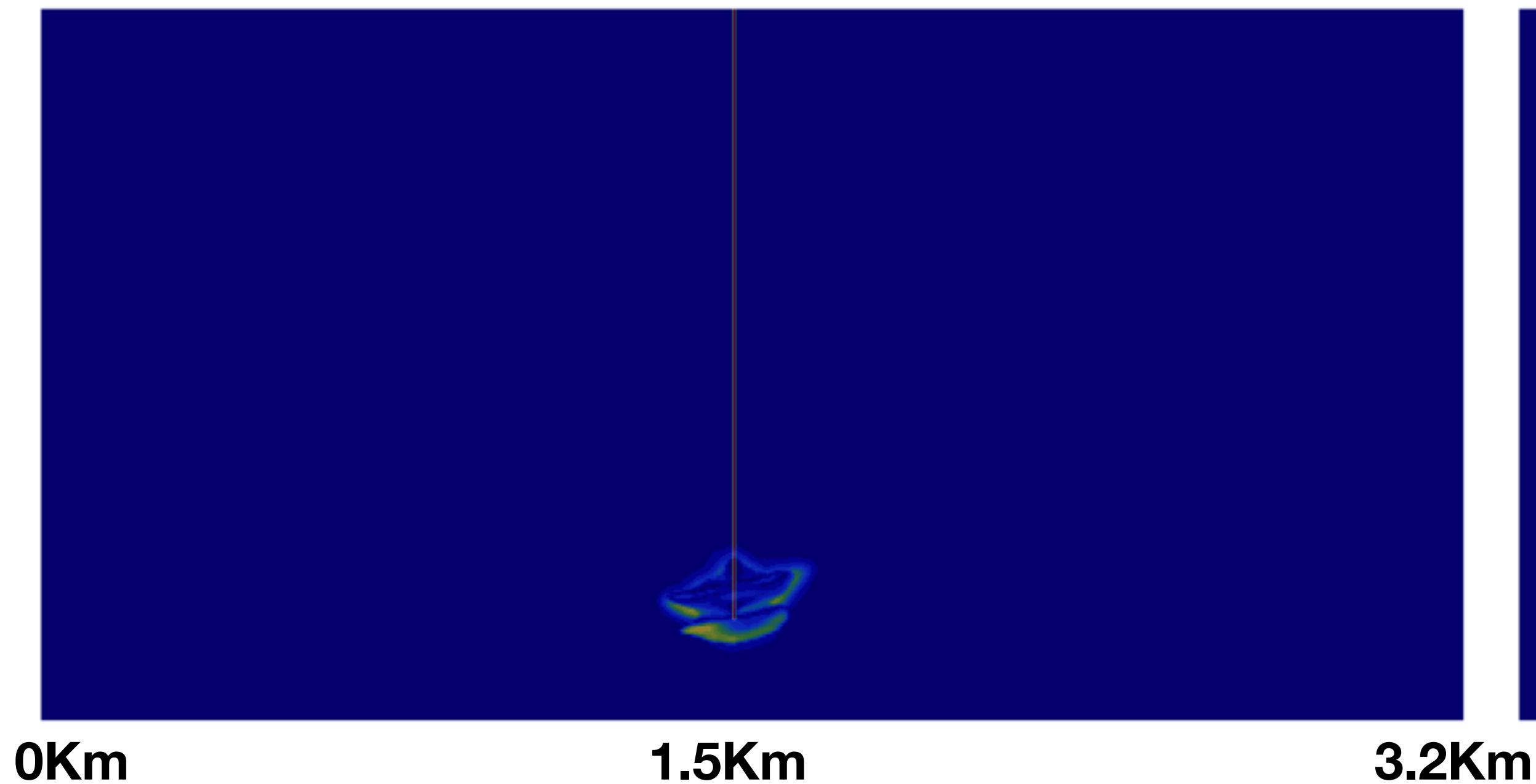
$$\mathbb{E}[p(\mathbf{x}_{1:24} | \bar{\mathbf{y}}_{1:6:24}^0)]$$



errors & inferred standard deviation

errors w.r.t. ground-truth

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



inferred standard deviations

$$\mathbb{V}^{\frac{1}{2}}[p(\mathbf{x}_{1:24} | \bar{\mathbf{y}}_{1:6:24}^0)]$$

