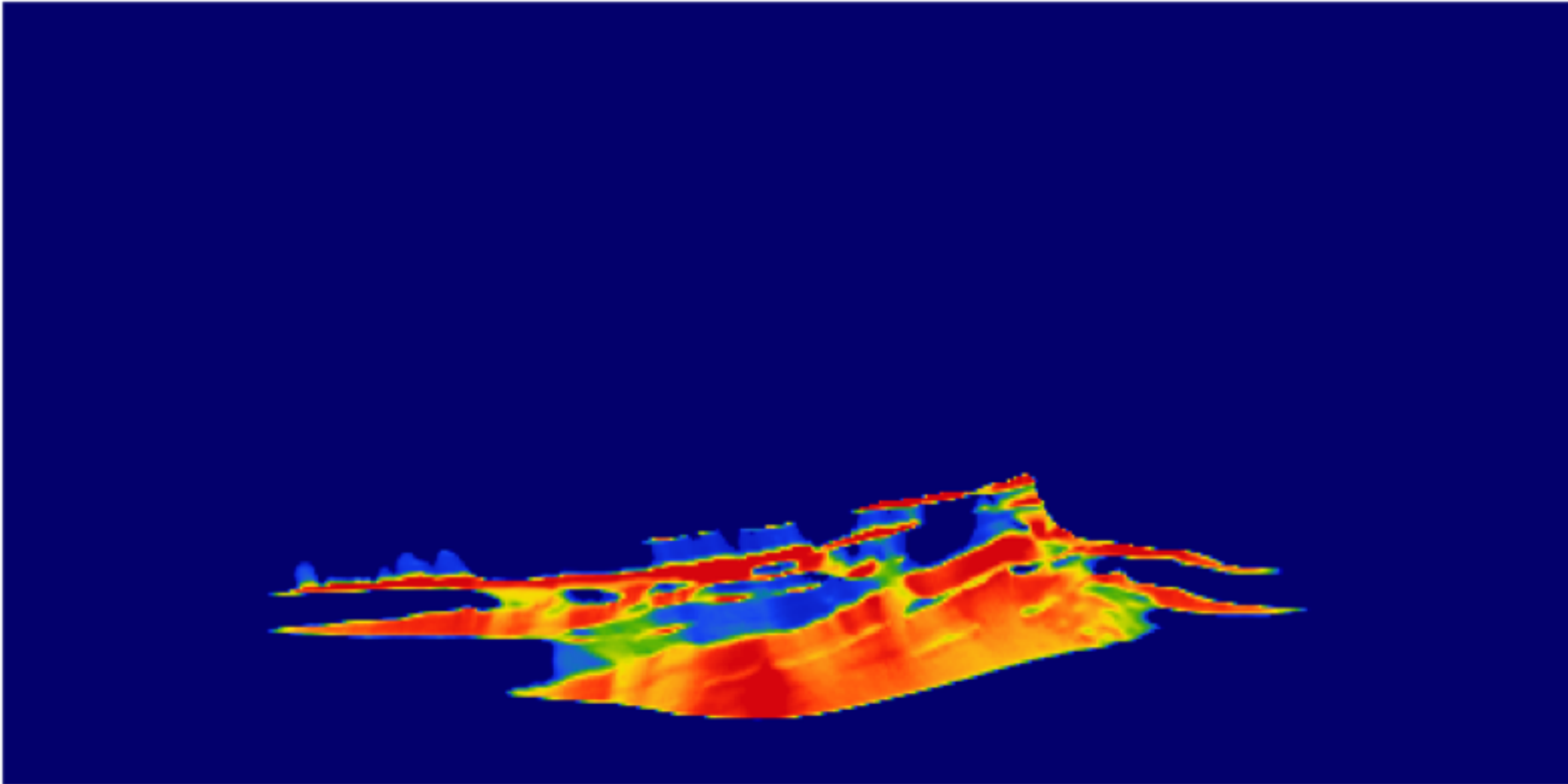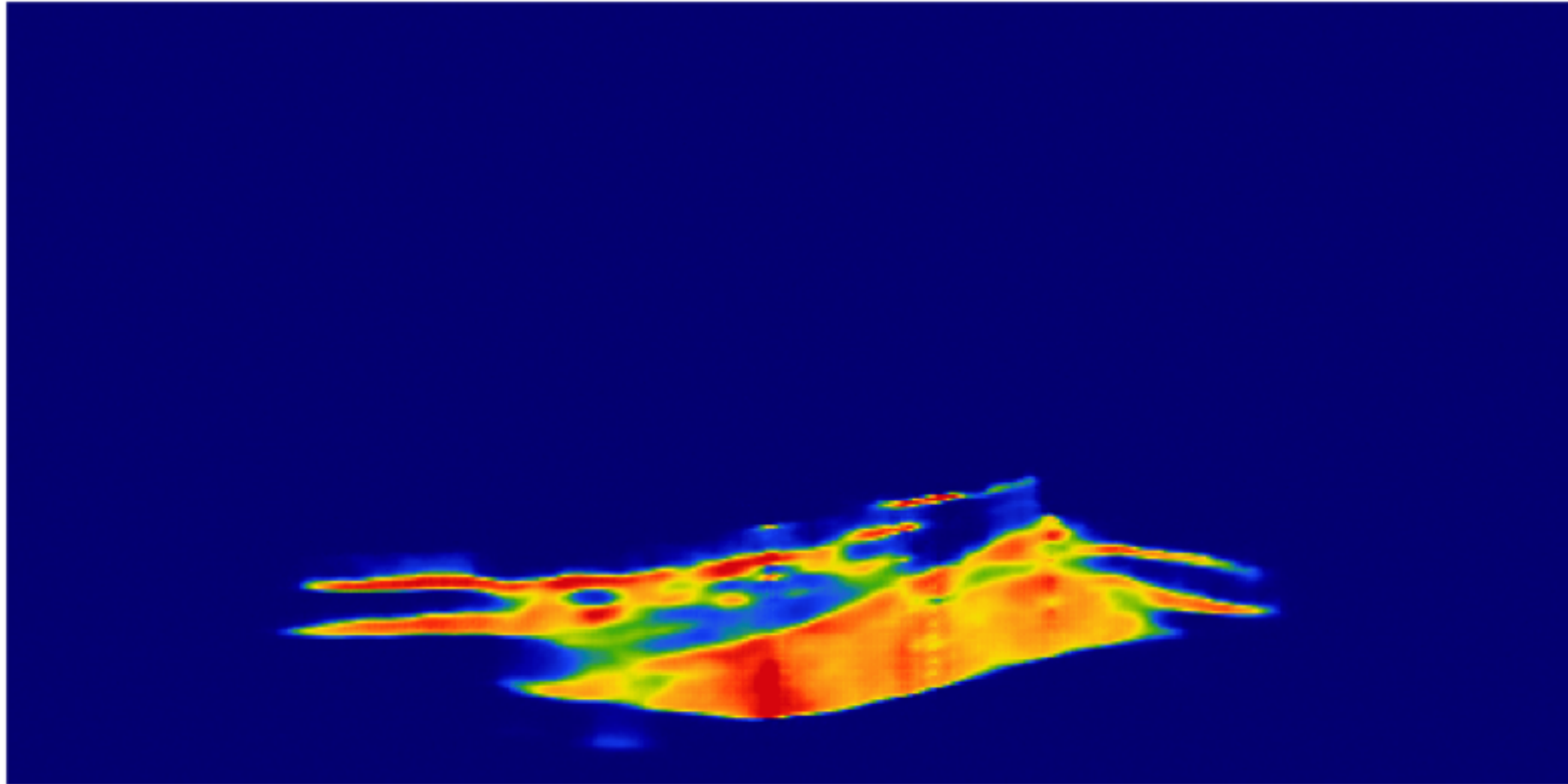**ground-truth CO$_2$**

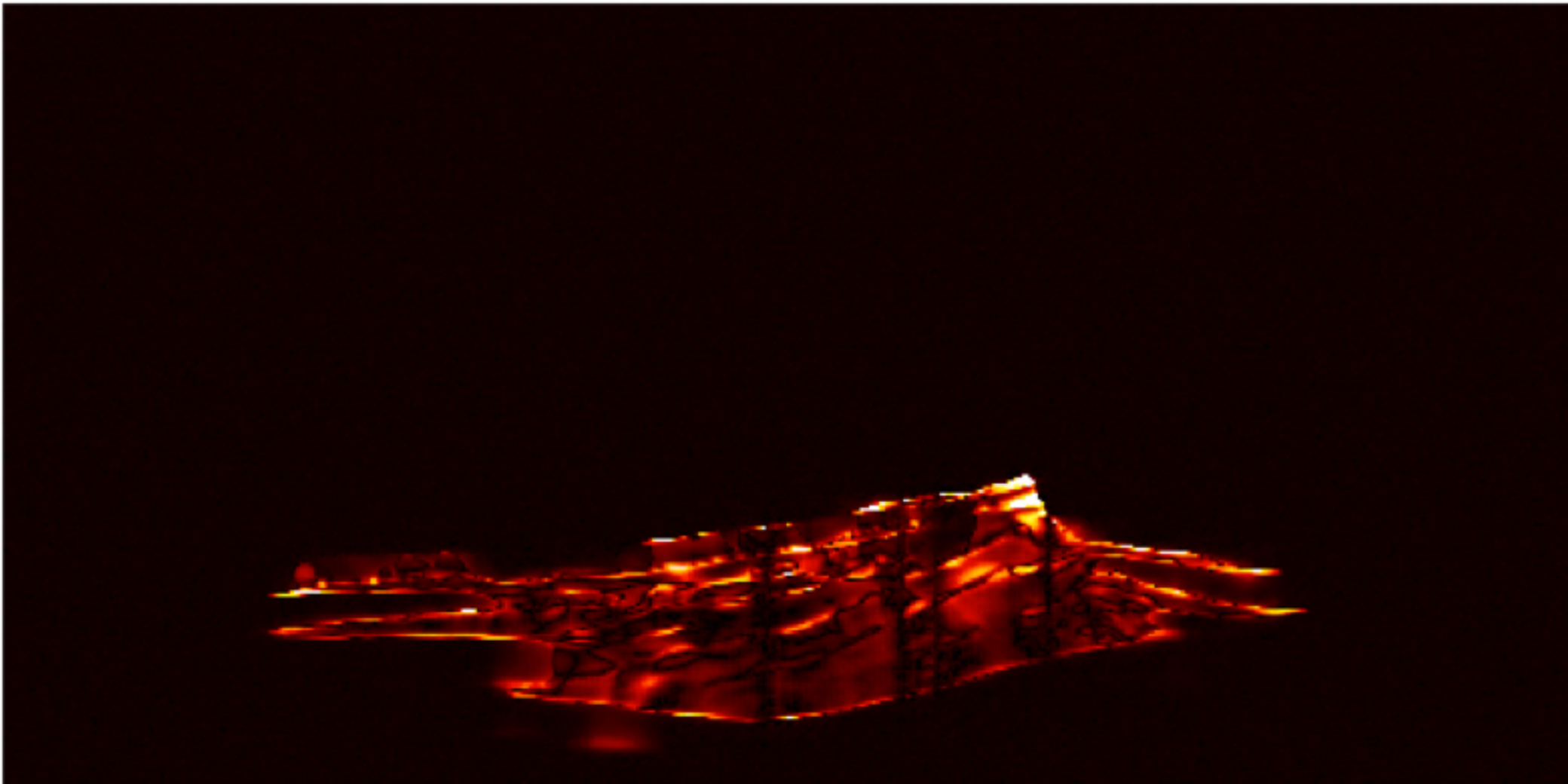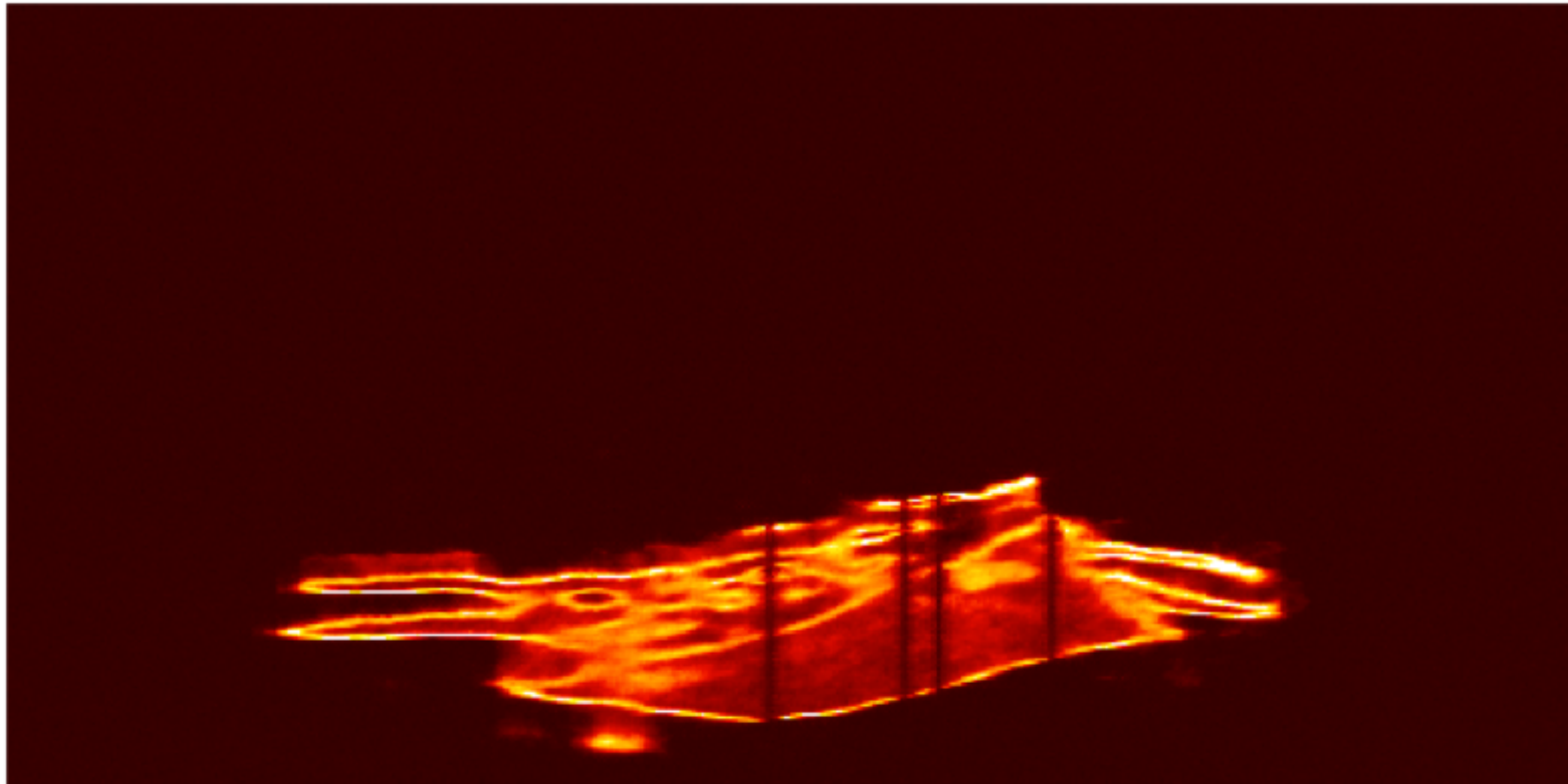**inference mean**

inference error

inference variance
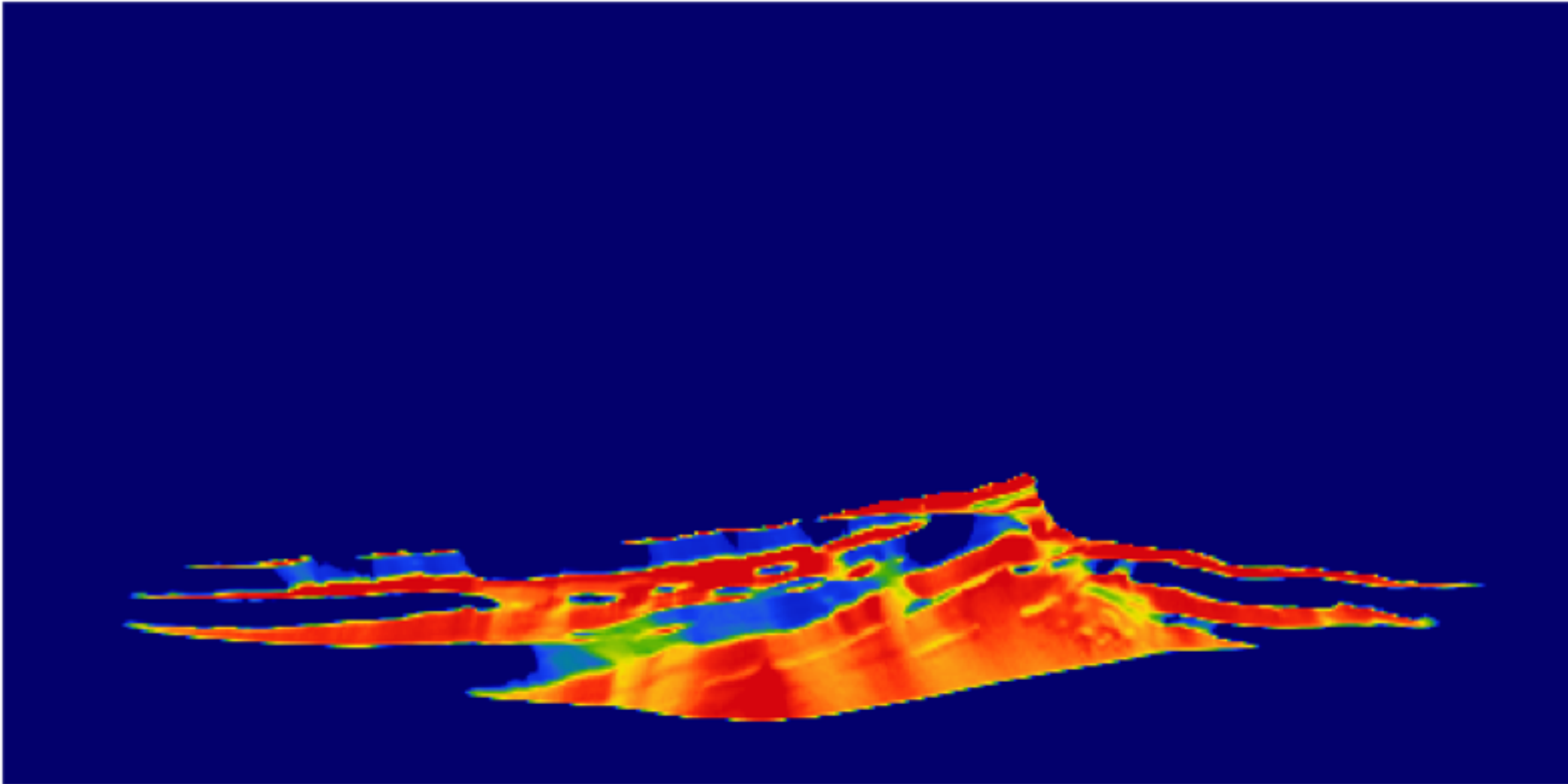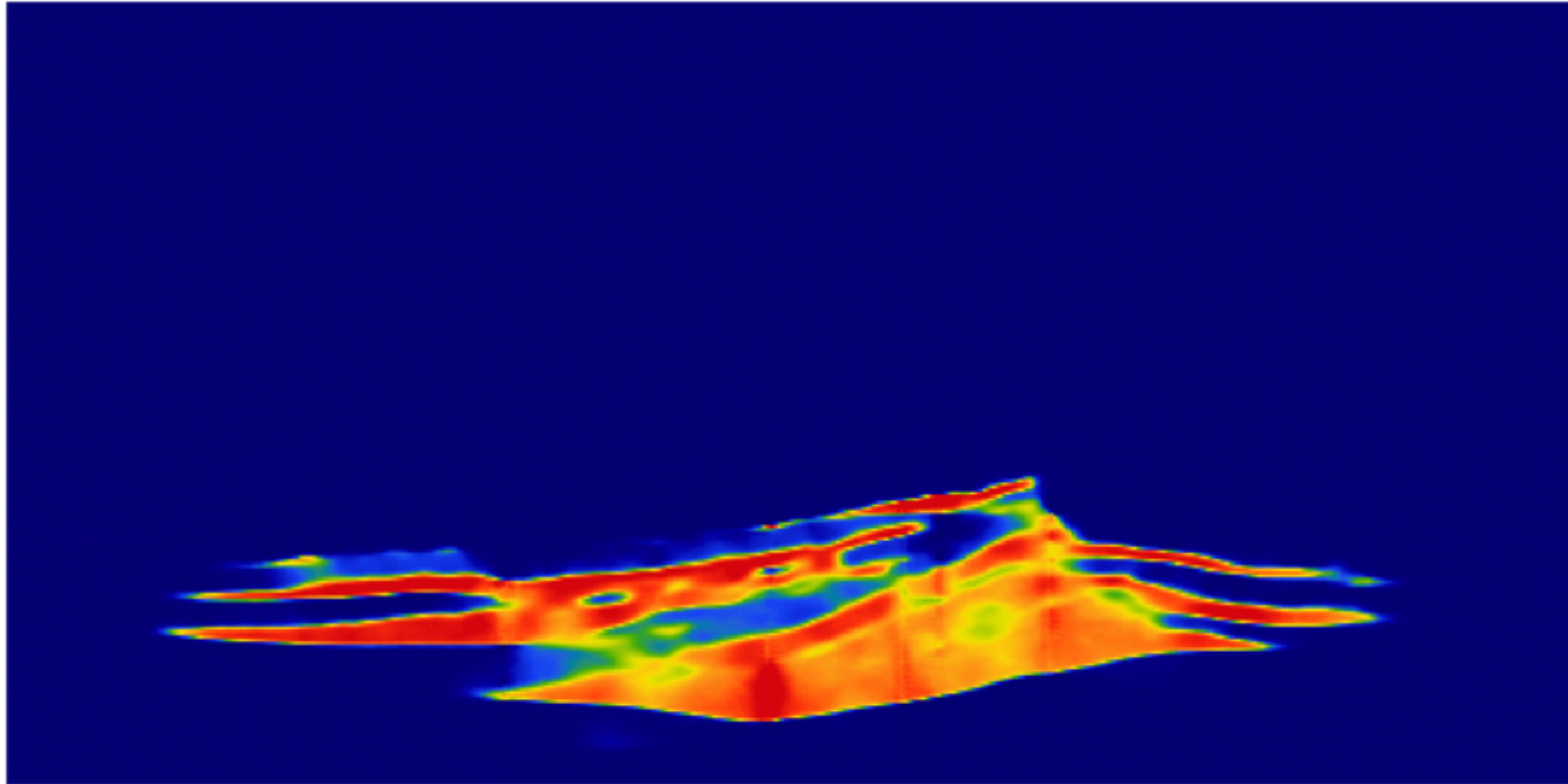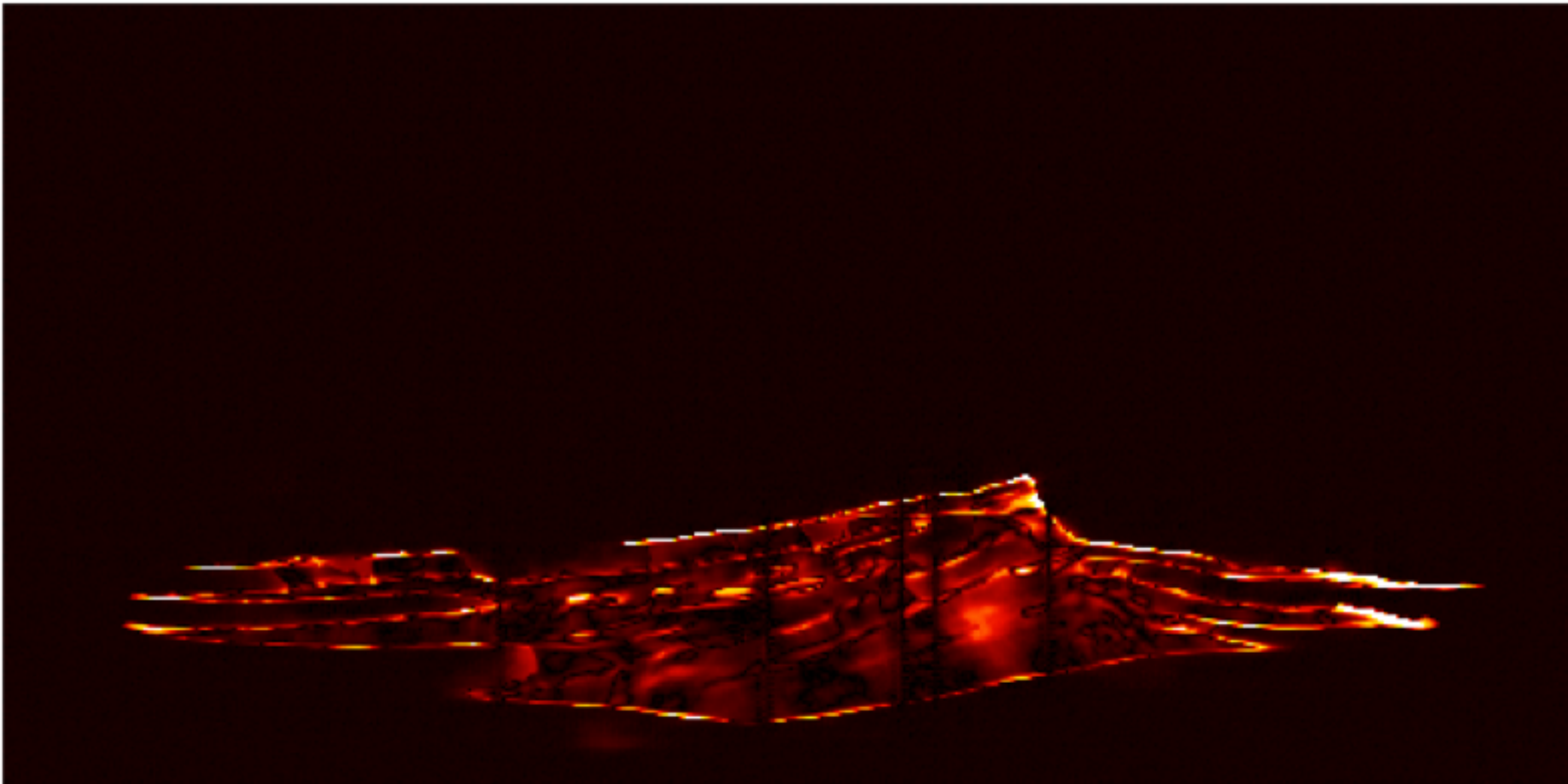
ground-truth CO$_2$

inference mean

inference error

inference variance