(b) Unsupervised deep learning
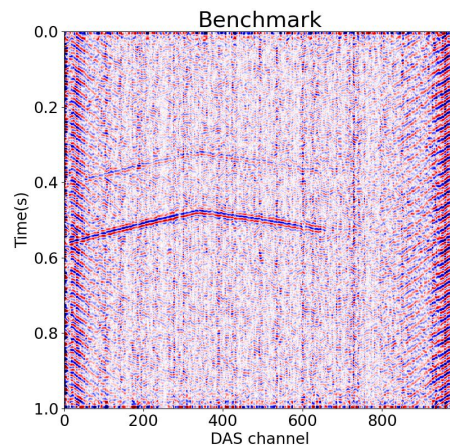
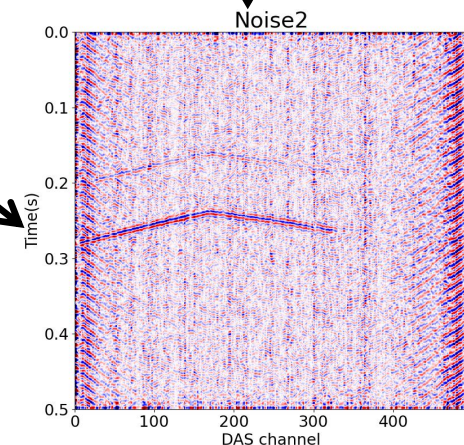

$$y * \begin{bmatrix} 0.5 & 0 \\ 0 & 0.5 \end{bmatrix} = y_1$$

$$y * \begin{bmatrix} 0 & 0.5 \\ 0.5 & 0 \end{bmatrix} = y_2$$

y

y_1

y_2
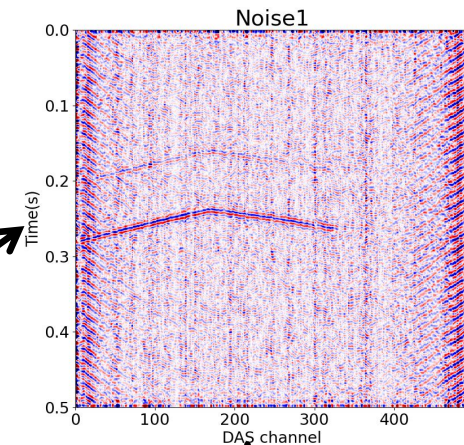
Two convolutional operators(3×3)
One convolutional operator(1×1)
(Training)