SSH observations **Gridded SSH** ConvLSTM Time ResNet decoder 960km ConvLSTM ResNet encoder ConvLSTM Time Time 960km Gridded **SST** Down block Batch Norm Down block Down block Down block Res. block ReLu activation Res. block Res. block Res. block ReLu activation Conv2D Conv2D Skip connection Batch Norm. Down block ReLu activation Strided Conv2D Upsampling Upsampling Jpsampling Res. block Jpsampling Res. block ResNet decoder Res. block 2D Conv.