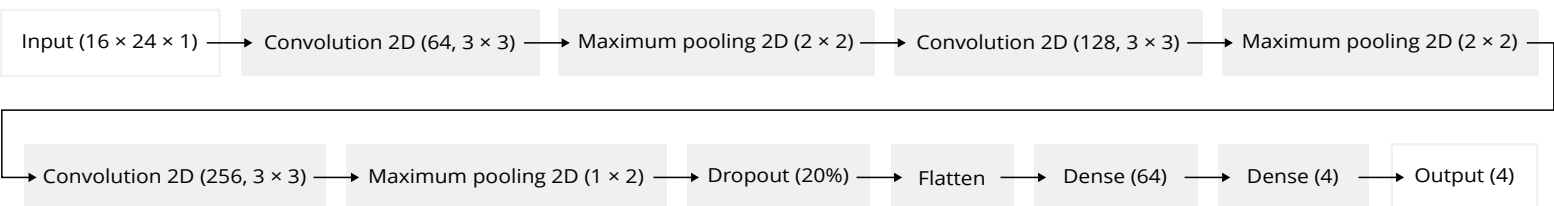
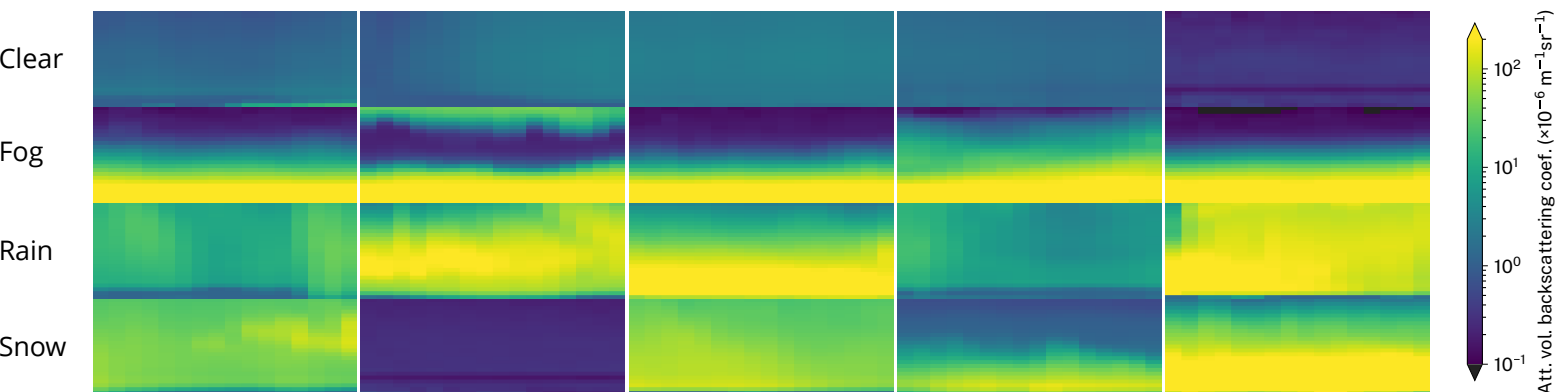
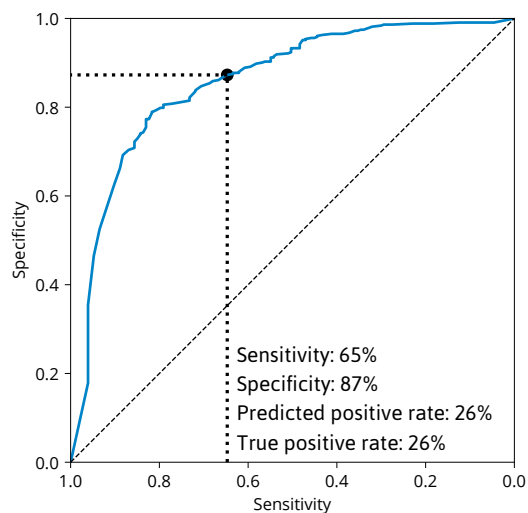


(a) ANN diagram**(b)** Random example near-surface lidar backscatter samples of 5 min (horizontal axis) by 0–250 m (vertical axis)**(c)** Receiver operating characteristic**(d)** Measured and predicted precipitation time series