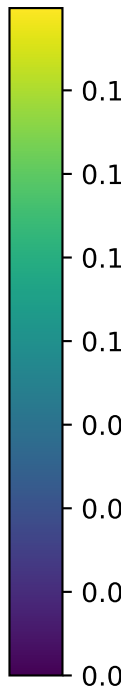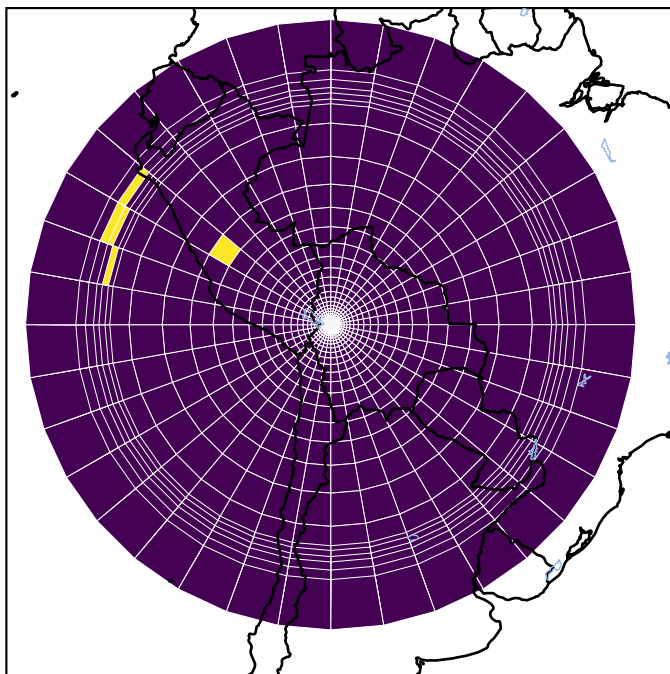p=CH4O2S|r=0.99|a=0.05|i=True|n=mean_norm_sqr