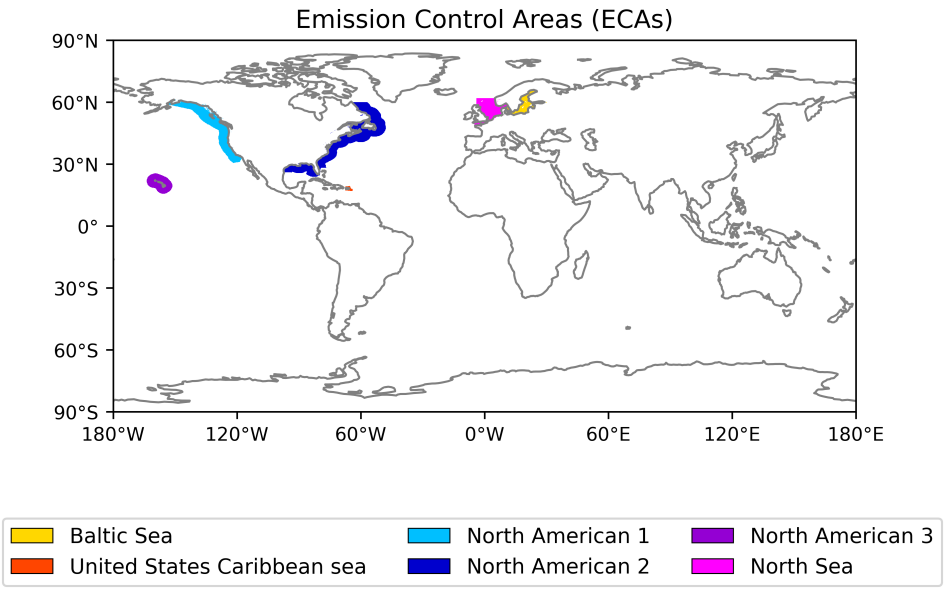


Figure S1: Map of current Emission Control Areas (ECAs).

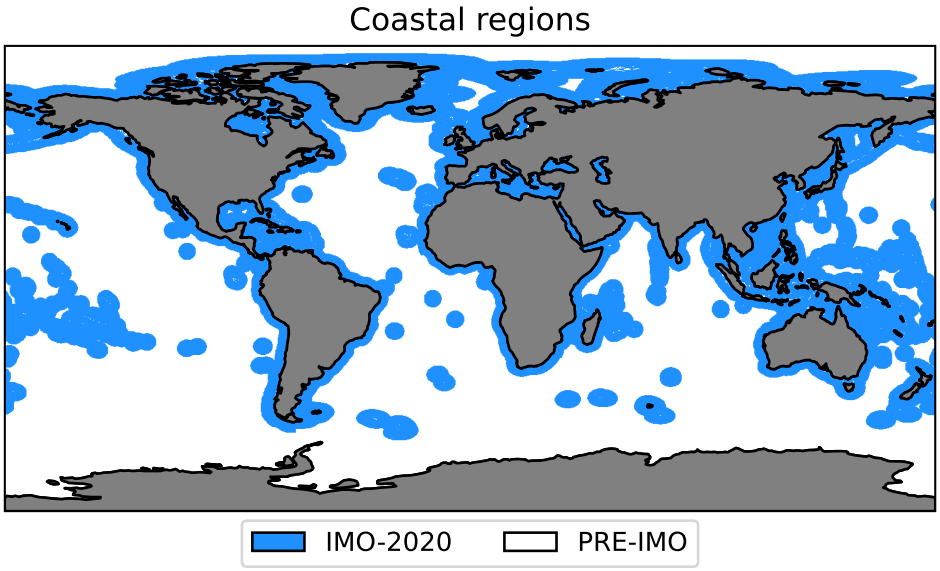


Figure S2: Definition of the coastal regions based on the Exclusive Economic Zones (EEZs) and applied to mask the emissions in the PRE-2010-OCEAN simulation.

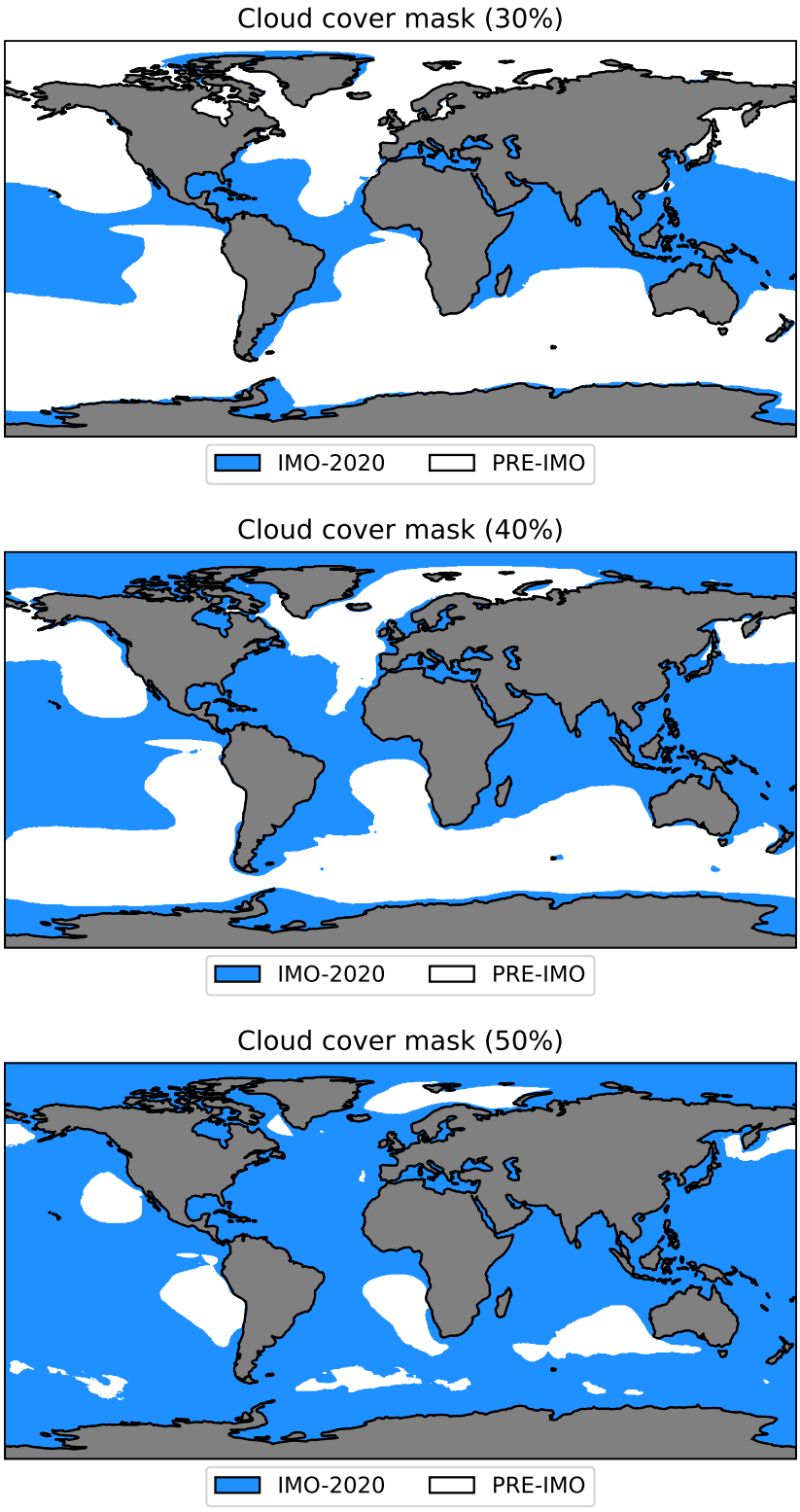


Figure S3: Cloud cover masks considering areas with a climatological low-cloud cover larger than 30%, 40% and 50% and applied to mask the emissions in the PRE-2010-CLOUD30, PRE-2010-CLOUD40, and PRE-2010-CLOUD50 simulations, respectively.

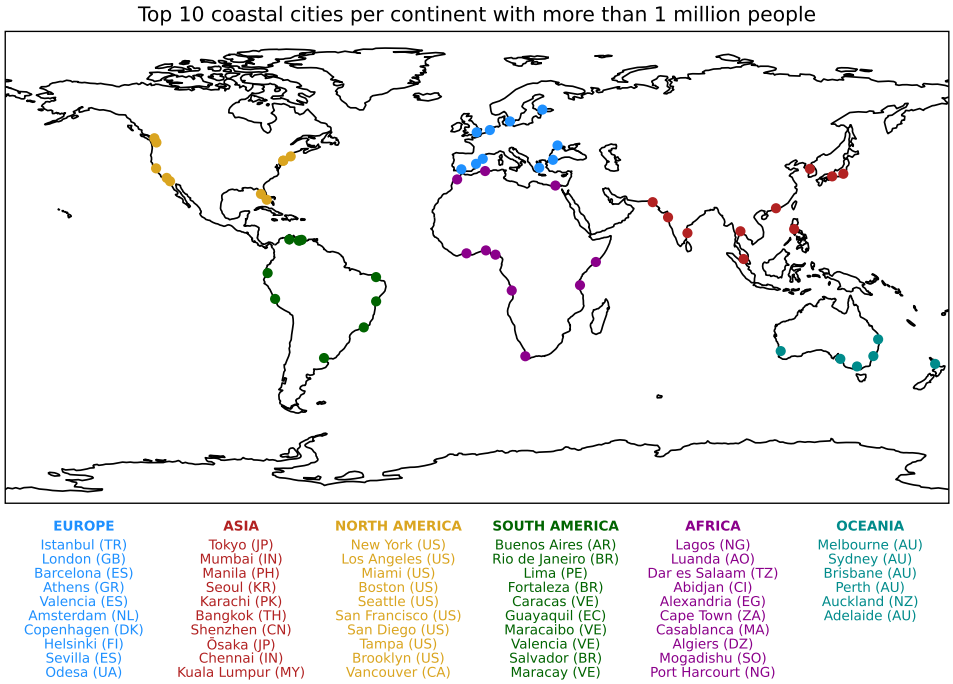


Figure S4: Ten most populous coastal cities on each continents with more than one million people. Population data are sourced from https://simplemaps.com/data/world-cities.