

Mercury is a bioaccumulative neurotoxin

Concentrations are $\times 10^6$ - 10^7 water



- “ Neurocognitive deficits
- “ Impaired motor function
- “ Cardiovascular effects



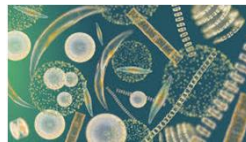
top predators



big fish



small fish



plankton

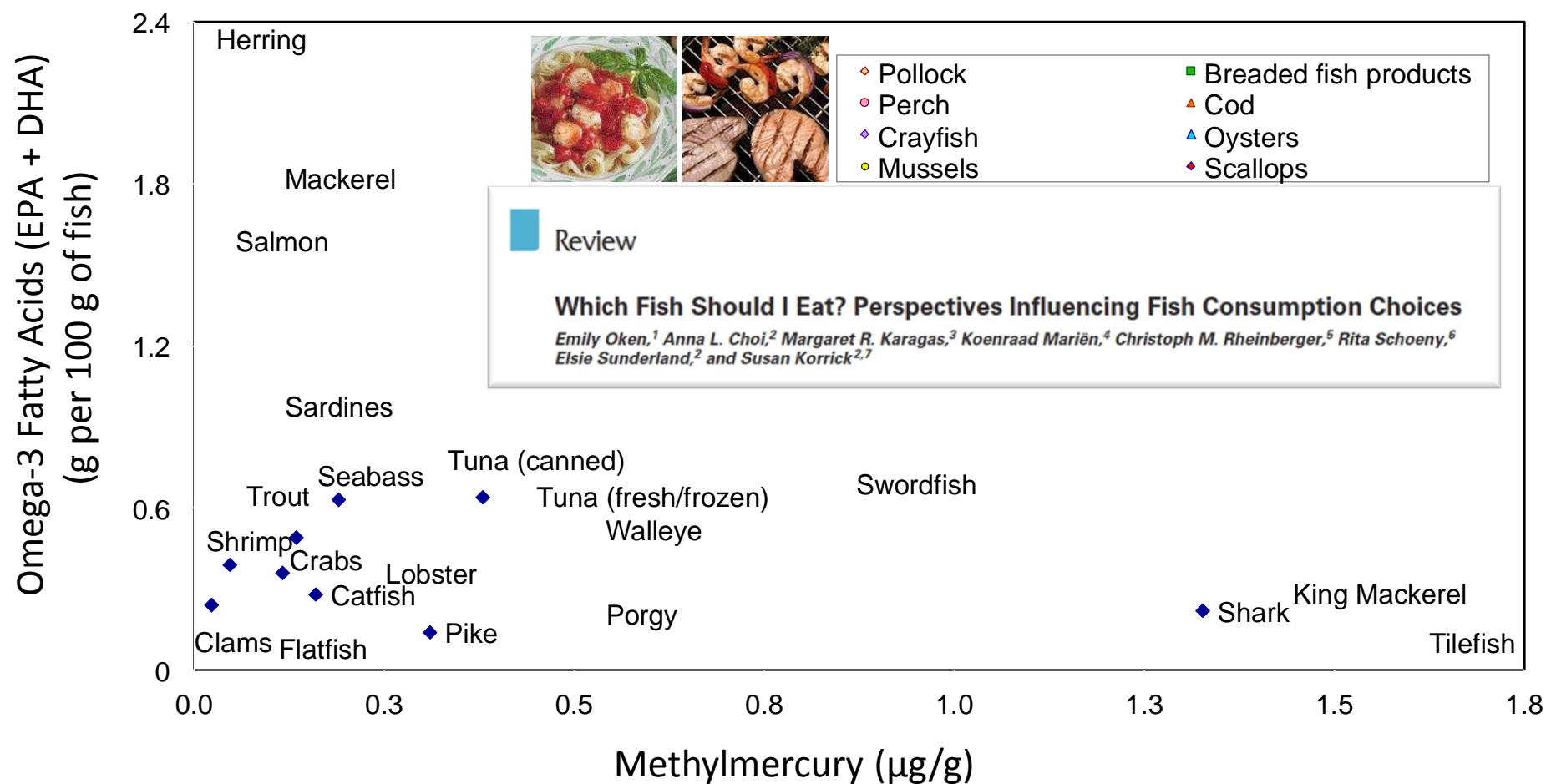


water

mercury concentration

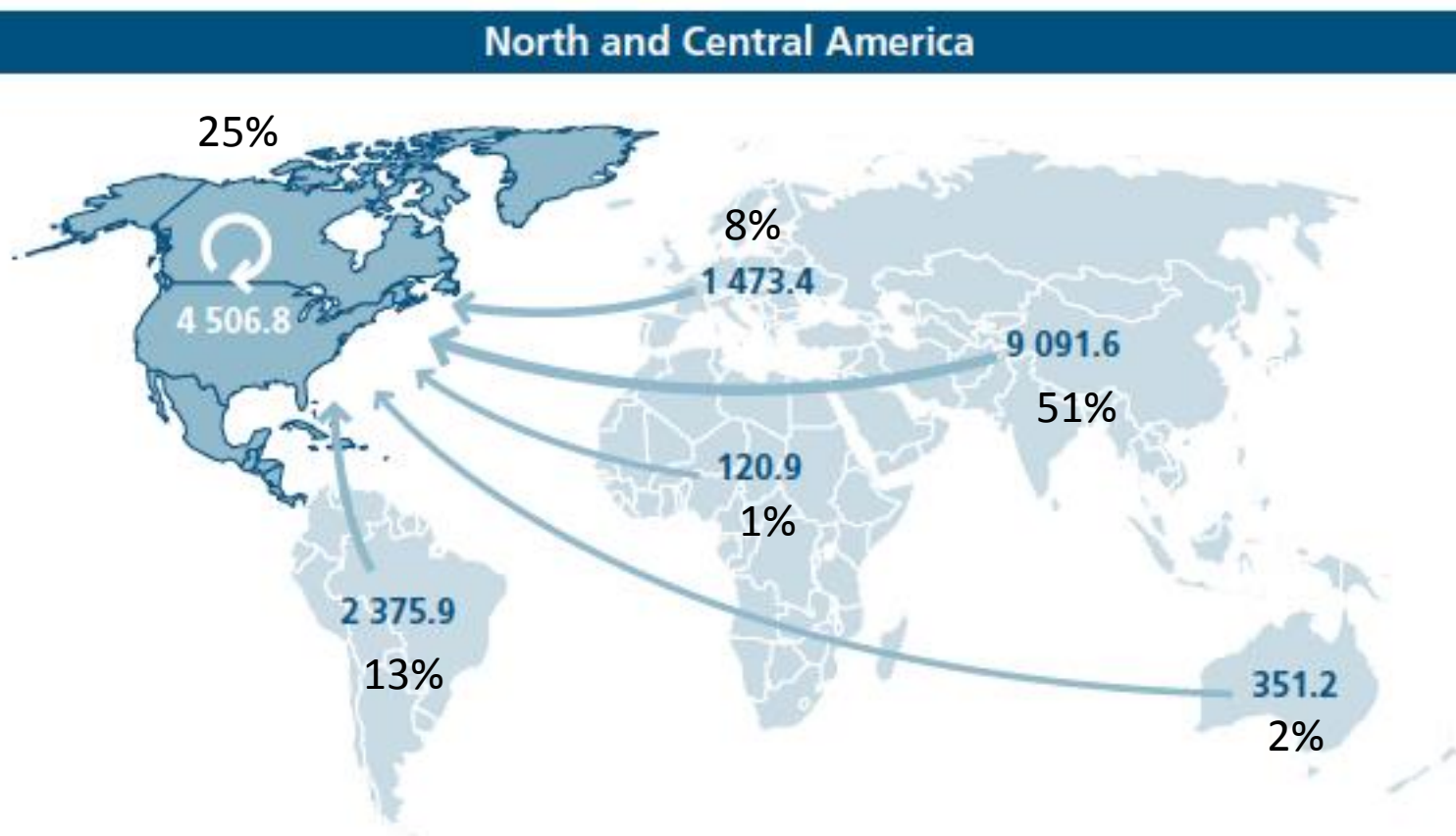


about benefits and risks of seafood



Where do fish come from?

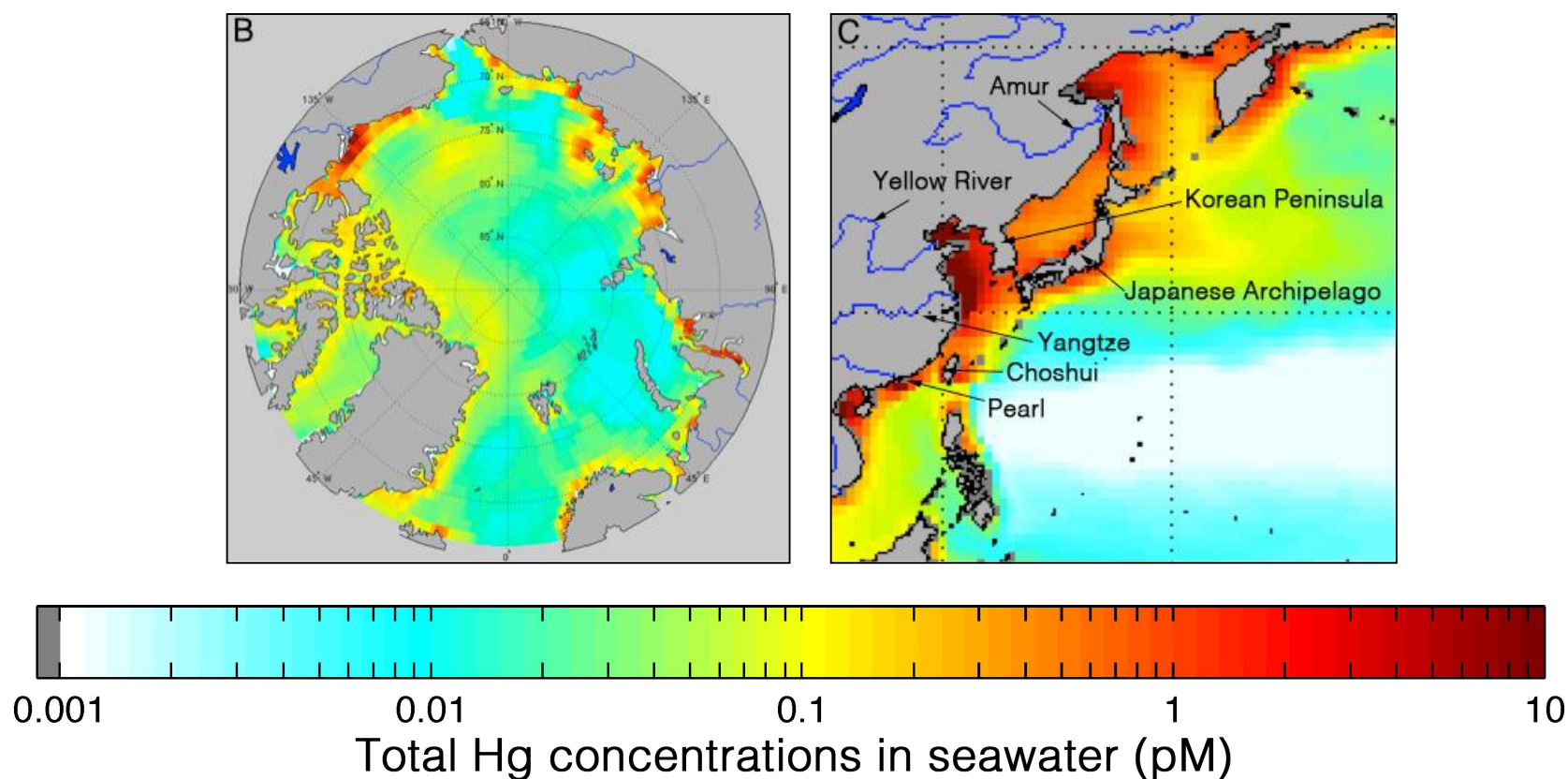
- Commercial marine fish consumption is the predominant source of MeHg exposure in North America and Europe



Trade flows by continents (total imports in US\$ millions, averages 2008-2010)

Concentrations of bioaccumulative pesticides pose risks for marine fisheries

Modeled contributions of global rivers discharges to seawater mercury concentrations



Source: Zhang et al., 2015 (in-review)