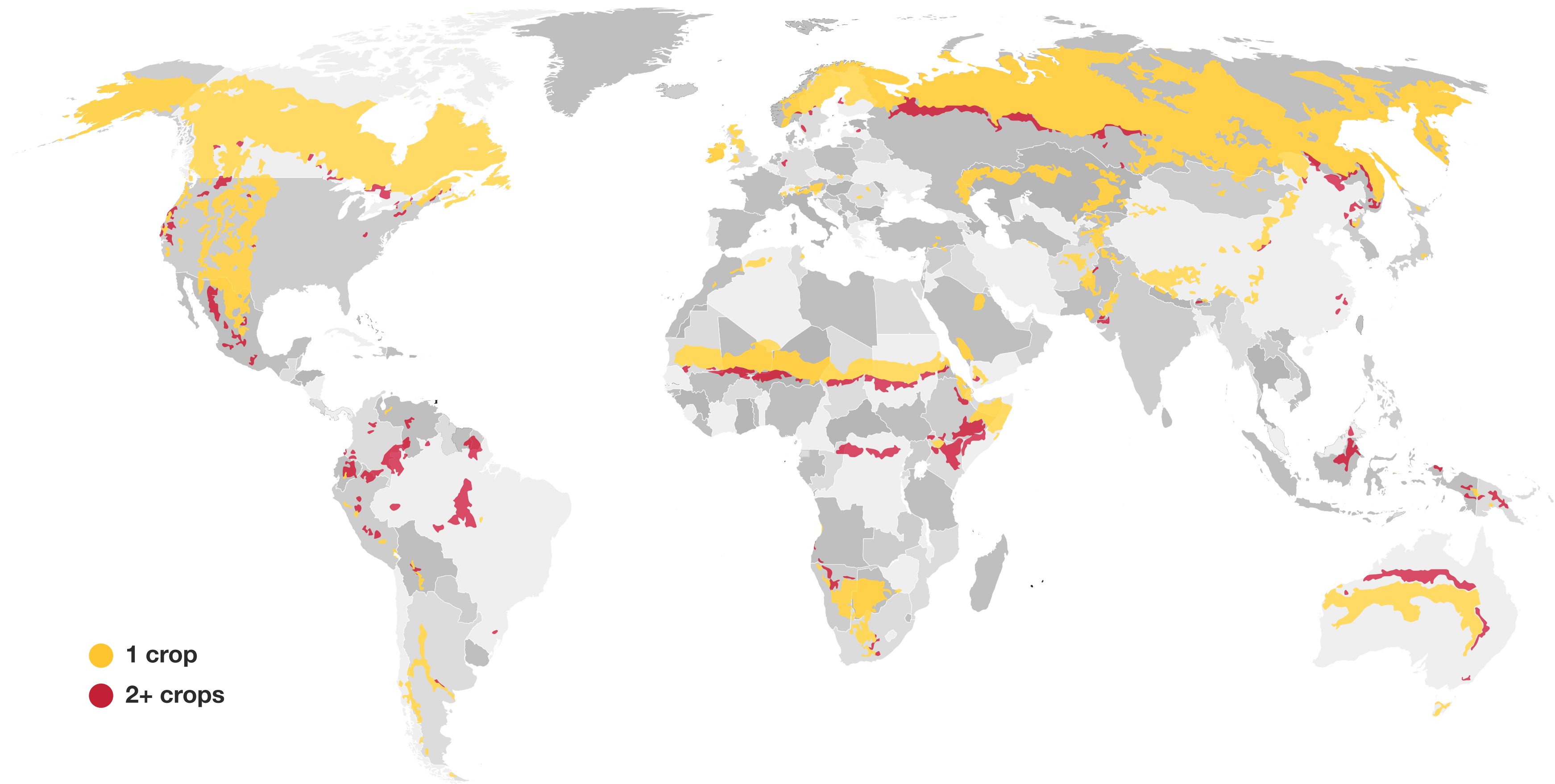
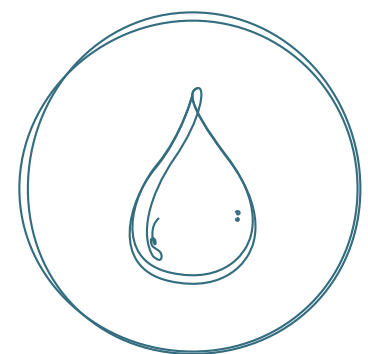


The Environmental Consequences of Climate-Driven Agricultural Frontiers



● 1 crop
● 2+ crops



Water

Changes to water supply and quality is projected to impact millions of homes within and downstream of the frontiers. Water quality changes from increased fertilizer and biocide runoff may affect human health, ecosystem health, fishery production, and water treatment costs.



Carbon

The greatest expected impact is on carbon storage in the soils of these new agricultural frontiers' soils, especially in northern landscapes. Carbon released if these areas are cultivated could be even greater than the amounts expected to be released by their warming alone.



Biodiversity

Frontiers intersect 19 global biodiversity hotspots. Their cultivation could worsen climate-driven changes to important ecosystems and habitats, such as a major portion of bird populations, contributing to declines in global biodiversity.

Unrestricted development of climate-driven agricultural frontiers can seriously hurt our environment.

As well as the environmental impacts, producing food on these frontiers could also have significant social impacts for the current residents of these landscapes – usually indigenous peoples. These landscapes are not true “frontiers” but the ancestral and uncaded homes to many Indigenous communities.