

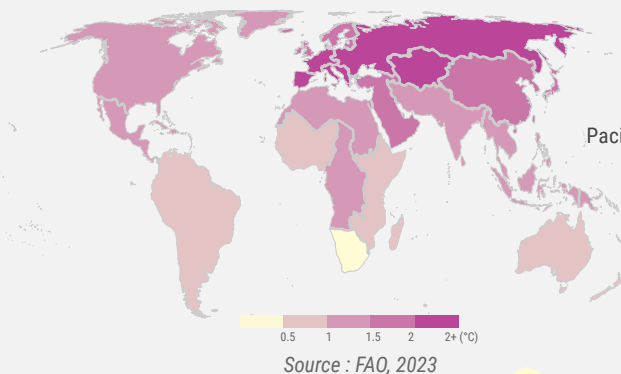


TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE

Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all

Hurricane occurrence and intensity in America

Land temperature increase in 2022 compare to the 1951-1980 period



▲ According to NOAA's 2021 Annual Climate Report **the combined land and ocean temperature** has risen by an average of **0.08 °C per decade** since 1880. The rate of warming since **1981** is more than twice as fast, reaching **0.18 °C per decade**.

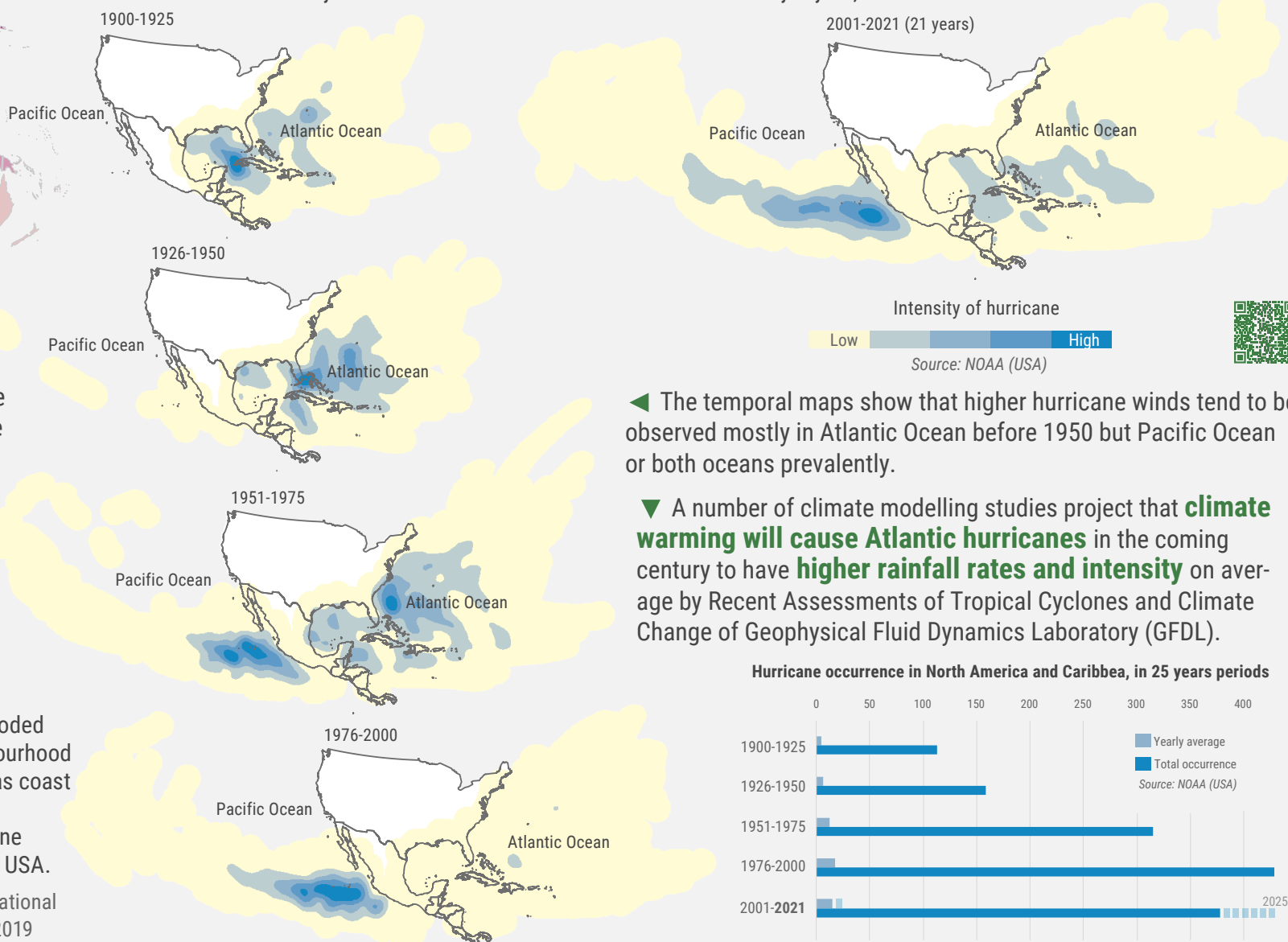
This change would imply an even **larger percentage increase** in the **destructive potential** per storm, with **rapid intensification** also projected to increase. ►



◀ Flooded neighbourhood on Texas coast by the Hurricane Harvey, USA.

Texas National Guard, 2019

Intensity of hurricane winds in Northern America and the Caribbean every 25 years, 1900 - 2021



◀ The temporal maps show that higher hurricane winds tend to be observed mostly in Atlantic Ocean before 1950 but Pacific Ocean or both oceans prevalently.

▼ A number of climate modelling studies project that **climate warming will cause Atlantic hurricanes** in the coming century to have **higher rainfall rates and intensity** on average by Recent Assessments of Tropical Cyclones and Climate Change of Geophysical Fluid Dynamics Laboratory (GFDL).

Hurricane occurrence in North America and Caribbean, in 25 years periods

