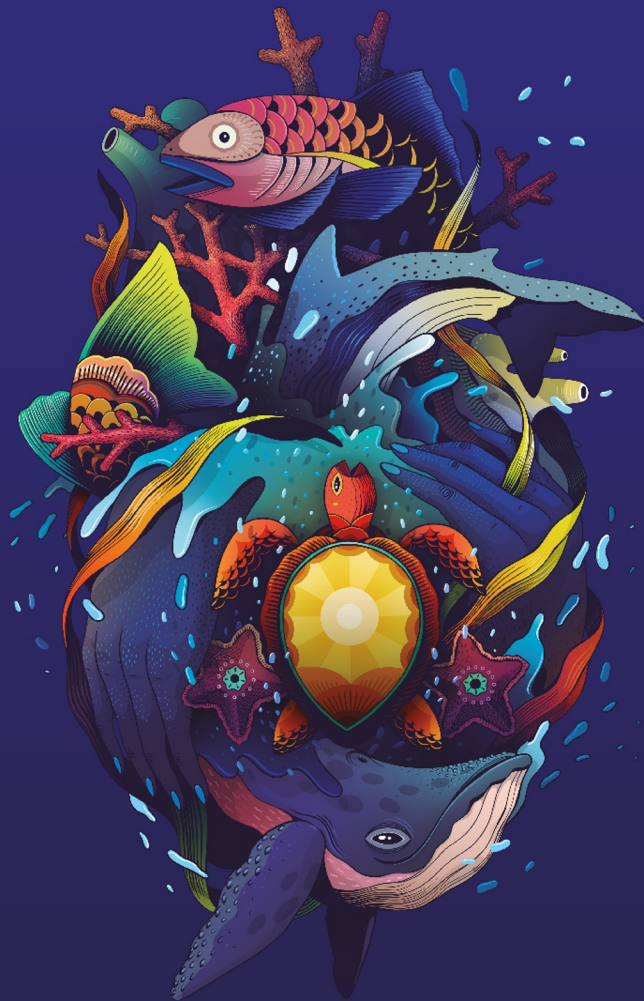


FISHERIES MANAGEMENT IS CLIMATE ACTION

Science Symposium
Lisbon, 26 June 2022



FROM THE ECOLOGICAL TO SOCIO- ECOLOGICAL IMPACTS OF CLIMATE CHANGE ON FISHERIES: BEYOND INEVITABILITY

Dr. Charlotte de Fontaubert
Global Lead for the Blue Economy
The World Bank

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IS CLIMATE ACTION** Science Symposium
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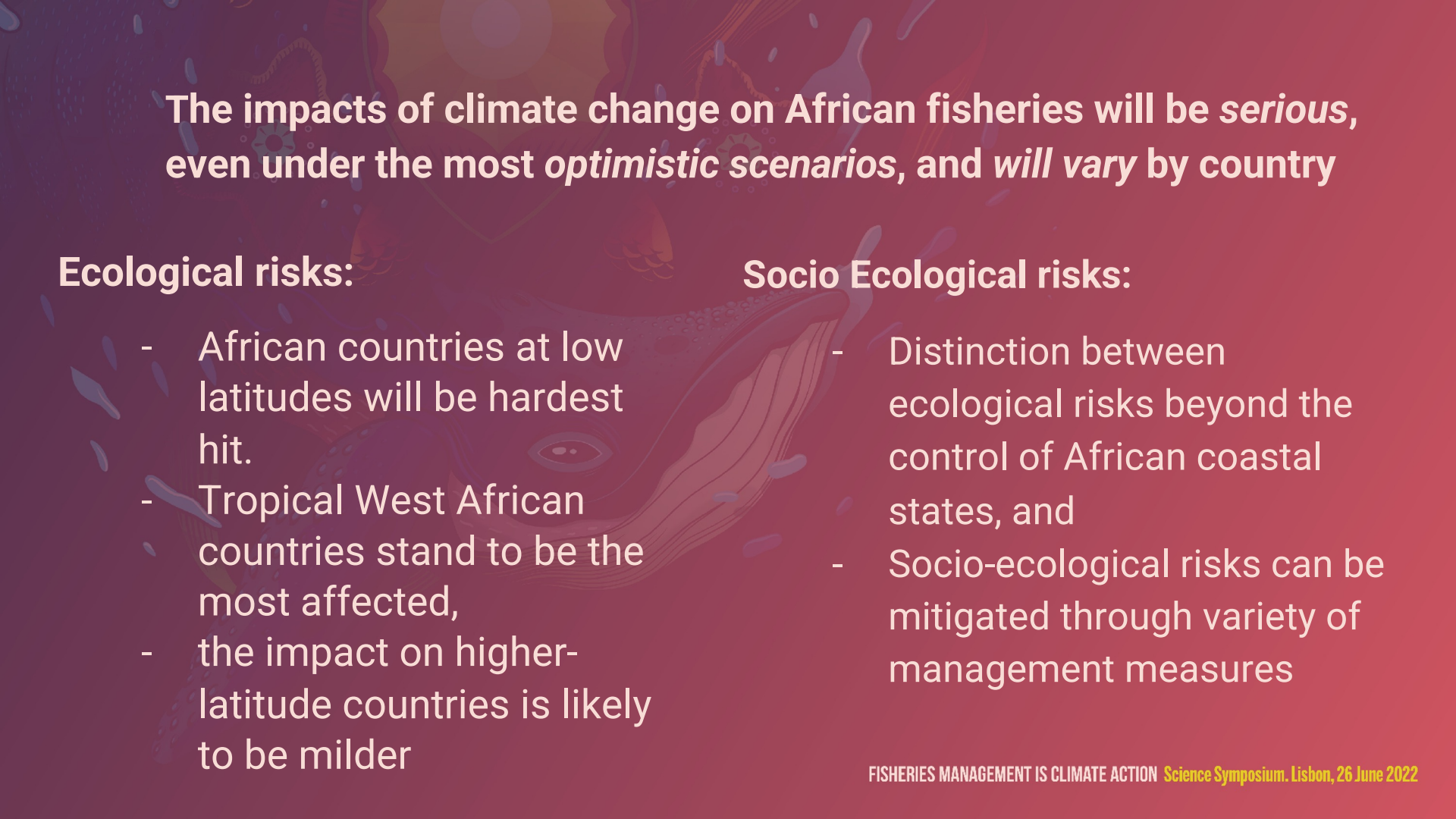
MODELING IMPACTS OF CC ON AFRICAN FISHERIES: ECOLOGICAL TO SOCIO ECOLOGICAL

DECEMBER 2019

Climate Change and Marine Fisheries in Africa

Assessing Vulnerability and Strengthening Adaptation Capacity

- Used **ecological** and **socioecological simulation modeling** to forecast the **impacts** of climate change in Africa
- **on fish stocks** and the **fisheries** and **fishing communities** that depend on them,
- by **2050** and **2100**,
- and according to **two different climate scenarios**
- African **countries** and **communities** most at **risk**.



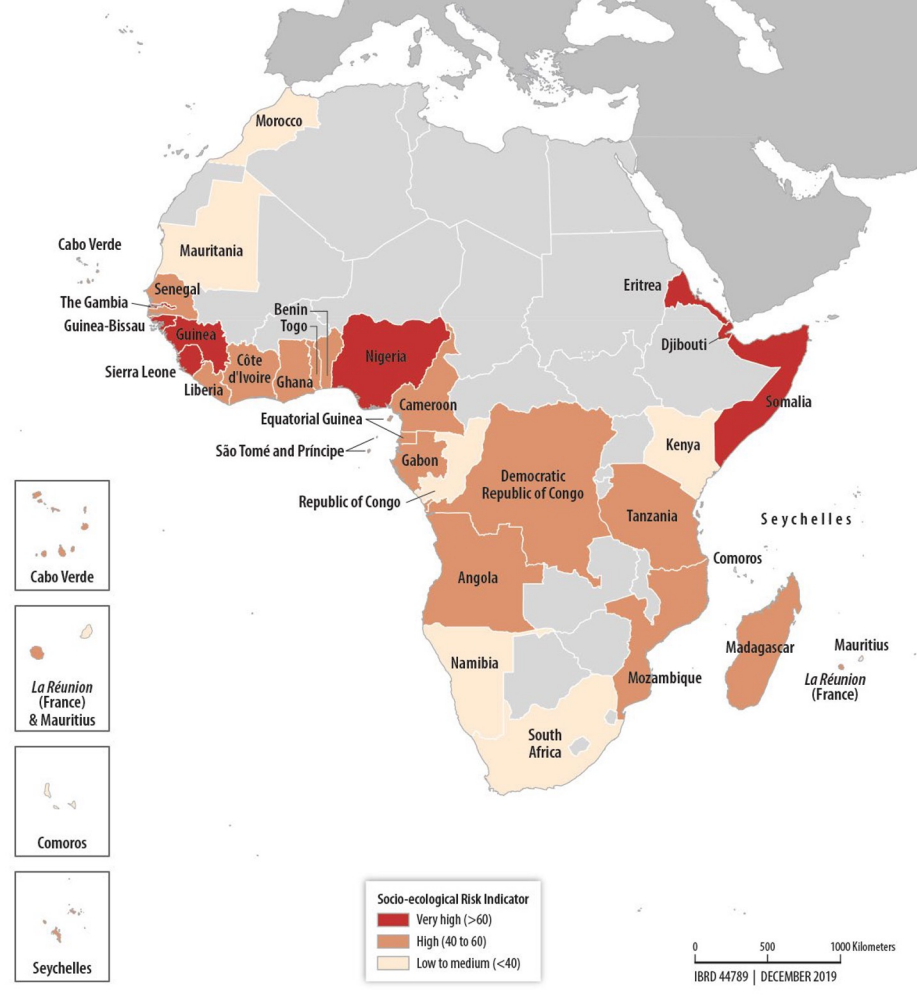
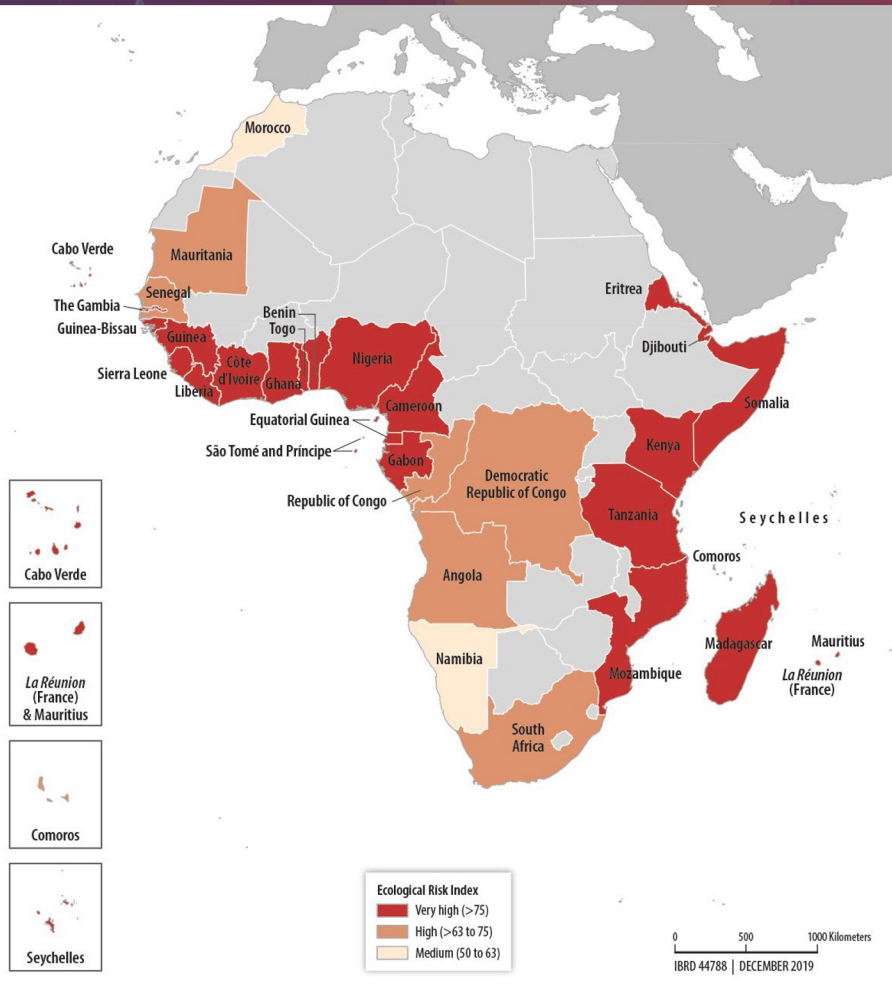
The impacts of climate change on African fisheries will be *serious*, even under the most *optimistic scenarios*, and *will vary* by country

Ecological risks:

- African countries at low latitudes will be hardest hit.
- Tropical West African countries stand to be the most affected,
- the impact on higher-latitude countries is likely to be milder

Socio Ecological risks:

- Distinction between ecological risks beyond the control of African coastal states, and
- Socio-ecological risks can be mitigated through variety of management measures



IMPACTS OF CC ON FISHERIES AND FISHING COMMUNITIES NOT A FOREGONE CONCLUSION

- The extent of socio-ecological risk depends on a number of **important variables**, including the **effectiveness of fisheries management measures**.
- Effectiveness of fisheries management **also useful indicator** when looking at **other issues, including subsidies**
- But in the former **effective management** can **reduce ecological risk** (ineffective management can worsen risk)
- Whereas in the latter, **relative weight** of management effectiveness and **different types of subsidies** will vary, including by ecosystem, by species and by gear type/fishing communities

From Africa to Asia, supporting fisheries to address climate change impacts

CHARLOTTE DE FONTAUBERT, BERENGERE PRINCE, GUNILLA GREIG, DAVID KACZAN & OLGA STRADYSHEVA | FEBRUARY 11, 2022

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