10 NEW INSIGHTS IN CLIMATE SCIENCE

Synthesising the latest developments in climate change research

Responding to clear calls for policy guidance during this climate -critical decade

Fumiko Kasuga, Ph.D., ICMSF, Future Earth,
and Nagasaki University, Japan

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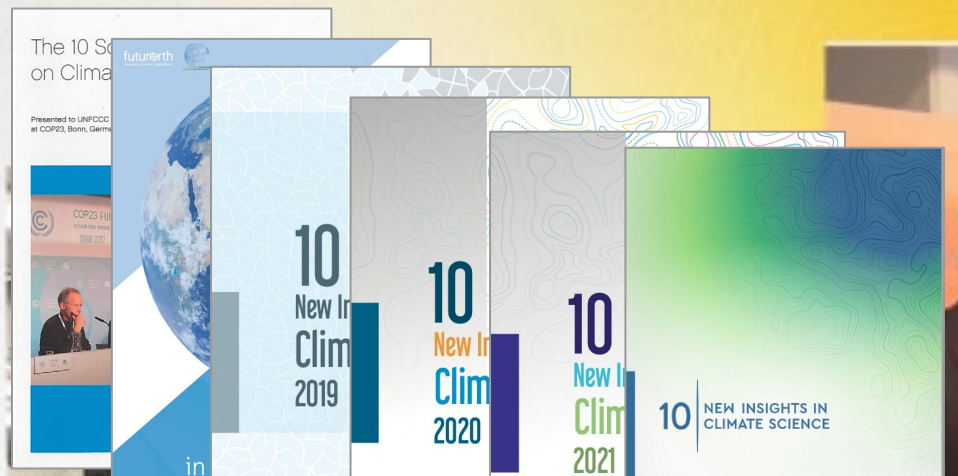

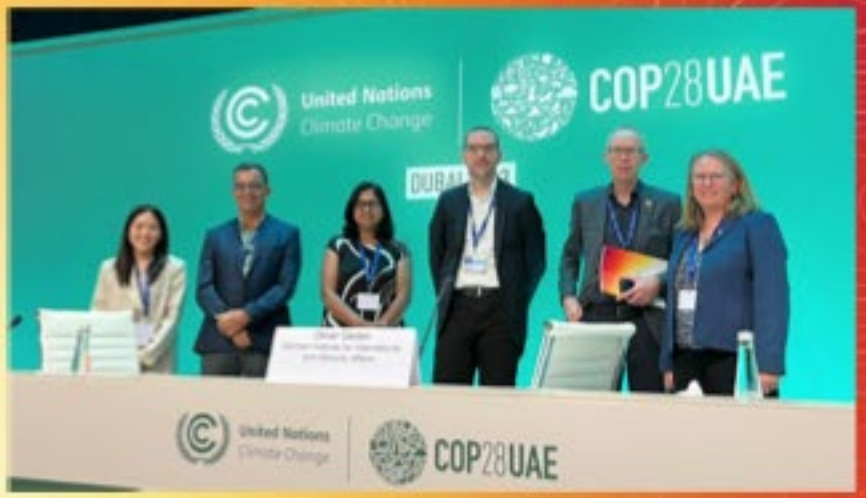

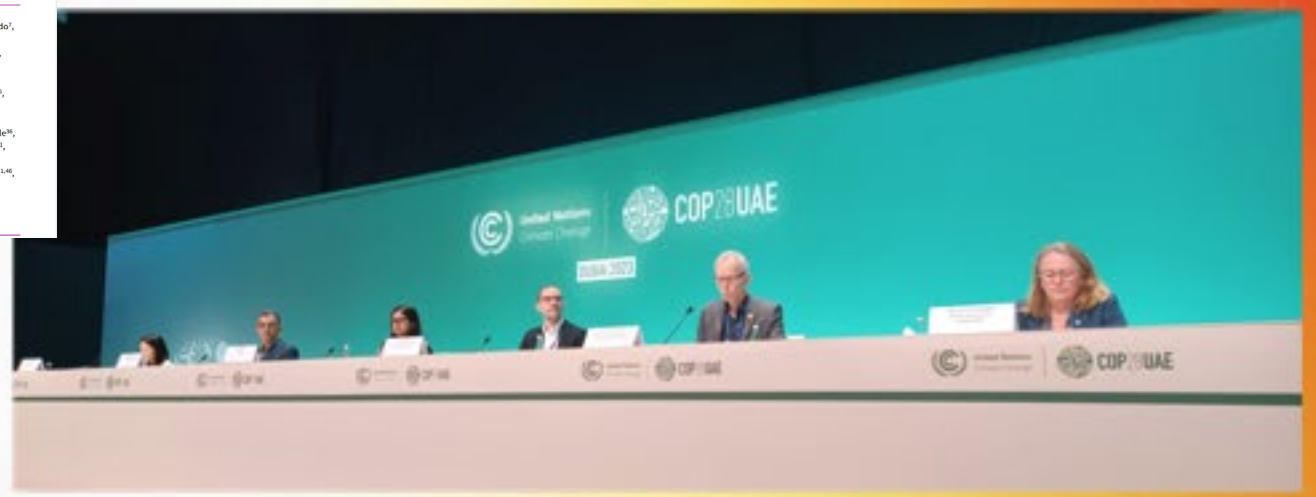

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Ten new insights in climate science 2020 – a horizon scan

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Ten new insights in climate science 2021: a horizon scan

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Ten new insights in climate science 2022

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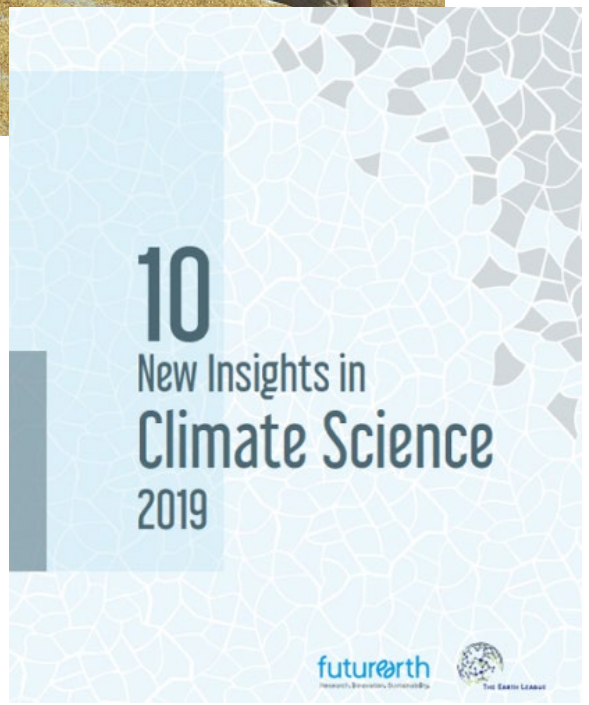
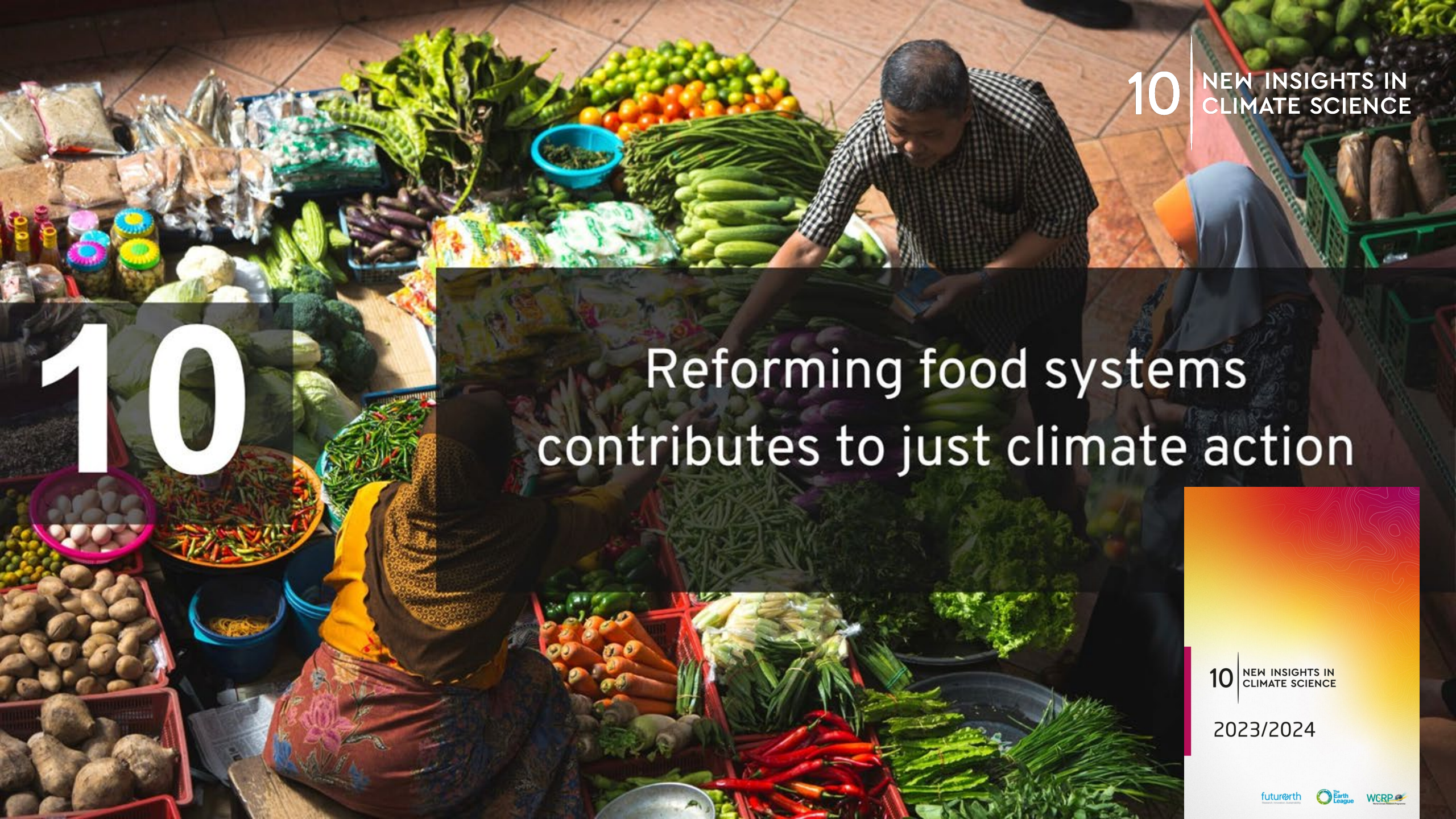
https://youtu.be/IJhiXuatwSI

7. CLIMATE CHANGE THREATENS FOOD SECURITY AND THE HEALTH OF HUNDREDS OF MILLIONS (2019)

- Undernutrition will be the greatest health risk of climate change with declining agricultural productivity
- Increasing concentrations of carbon dioxide will reduce the nutritional quality of most cereal crops, affecting hundreds of millions of people.
- Climate change and the rise in carbon dioxide concentrations are projected to result in a 20% reduction in the global availability of protein by 2050.
- Global fish stocks are set to further decline with climate change, with an additional 10% of the global population facing micronutrient deficiencies as a result.





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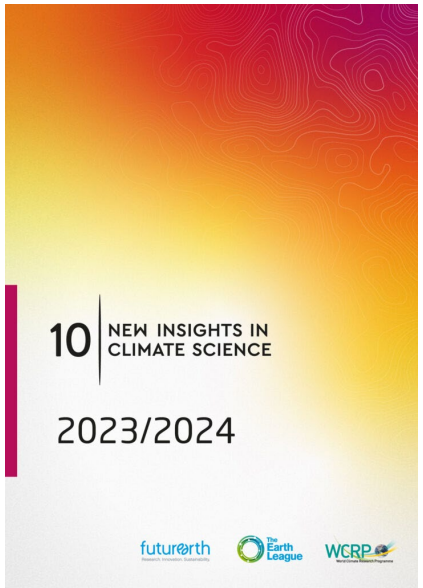
Reforming food systems contributes to just climate action

Key messages

- There has been insufficient consideration of historical and persistent injustices, socio-economic conditions, regional disparities in geography, culture and technological readiness, and power imbalances in food systems governance.
- Acknowledging and addressing injustices and how they are reinforced in contemporary food systems is a prerequisite for realising the mitigation potential of food systems transformations.
- Policies must be co-designed with all key actors, with a plurality of solutions across different scales that reflect diverse regional contexts.



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