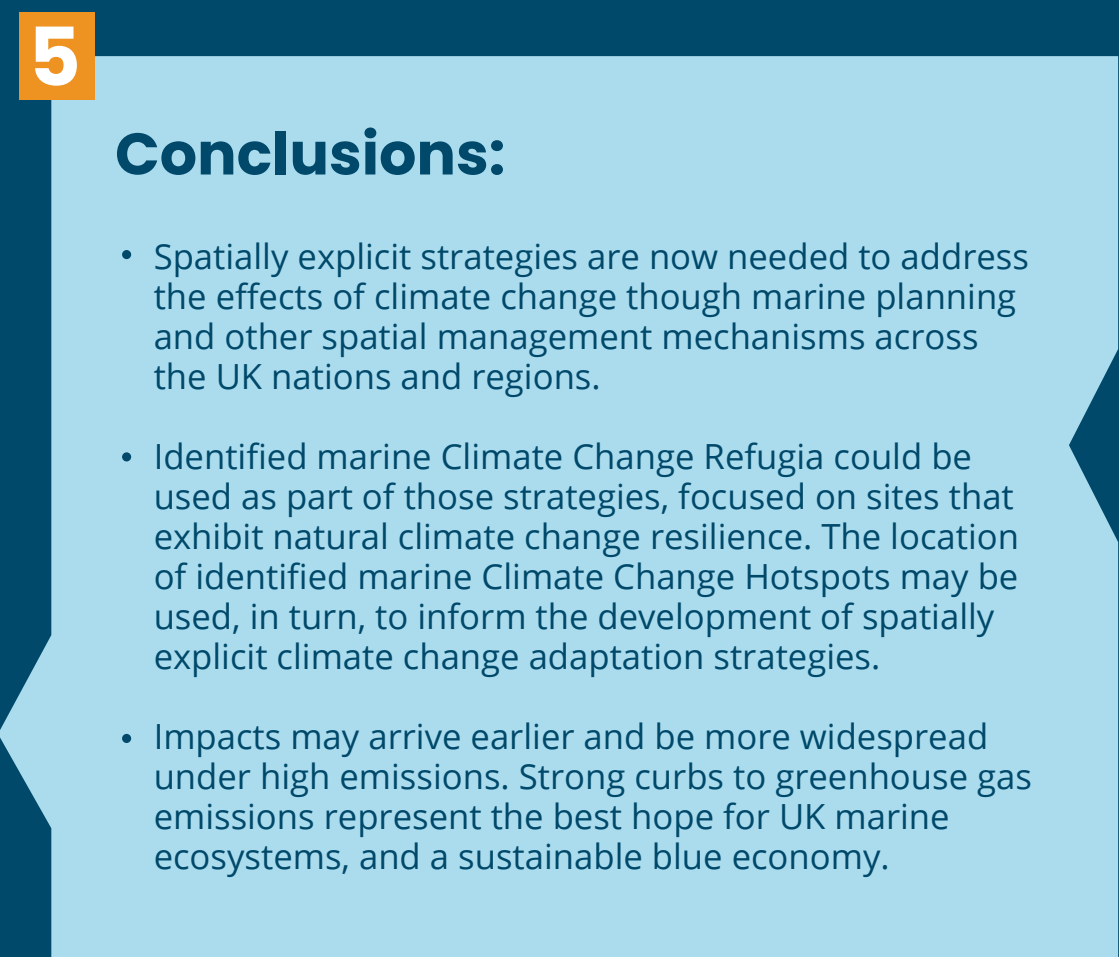
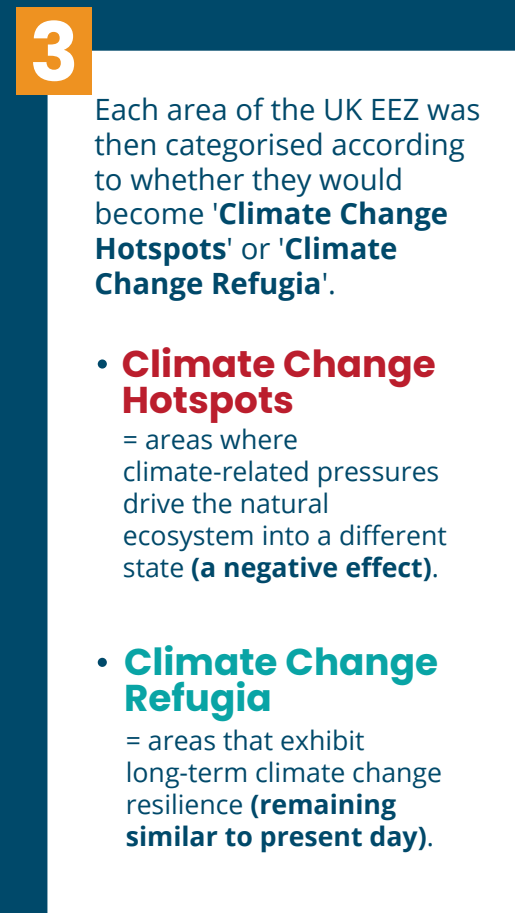
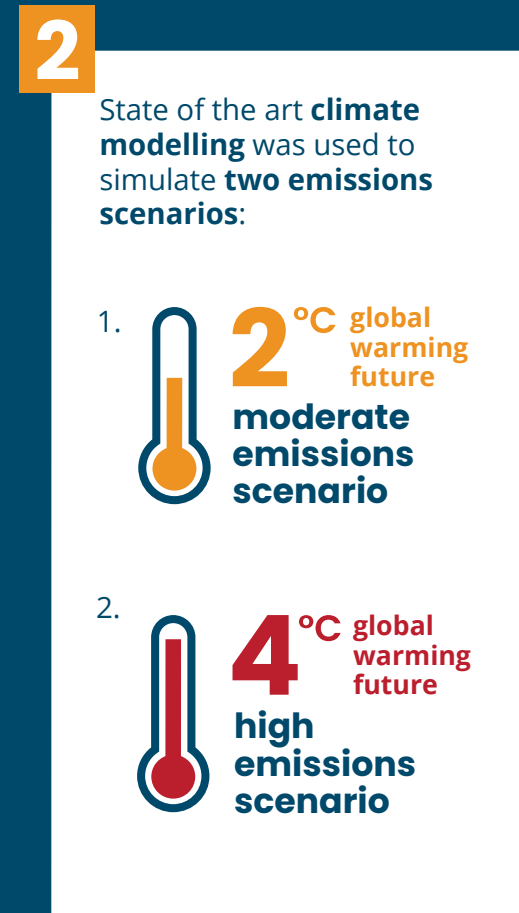
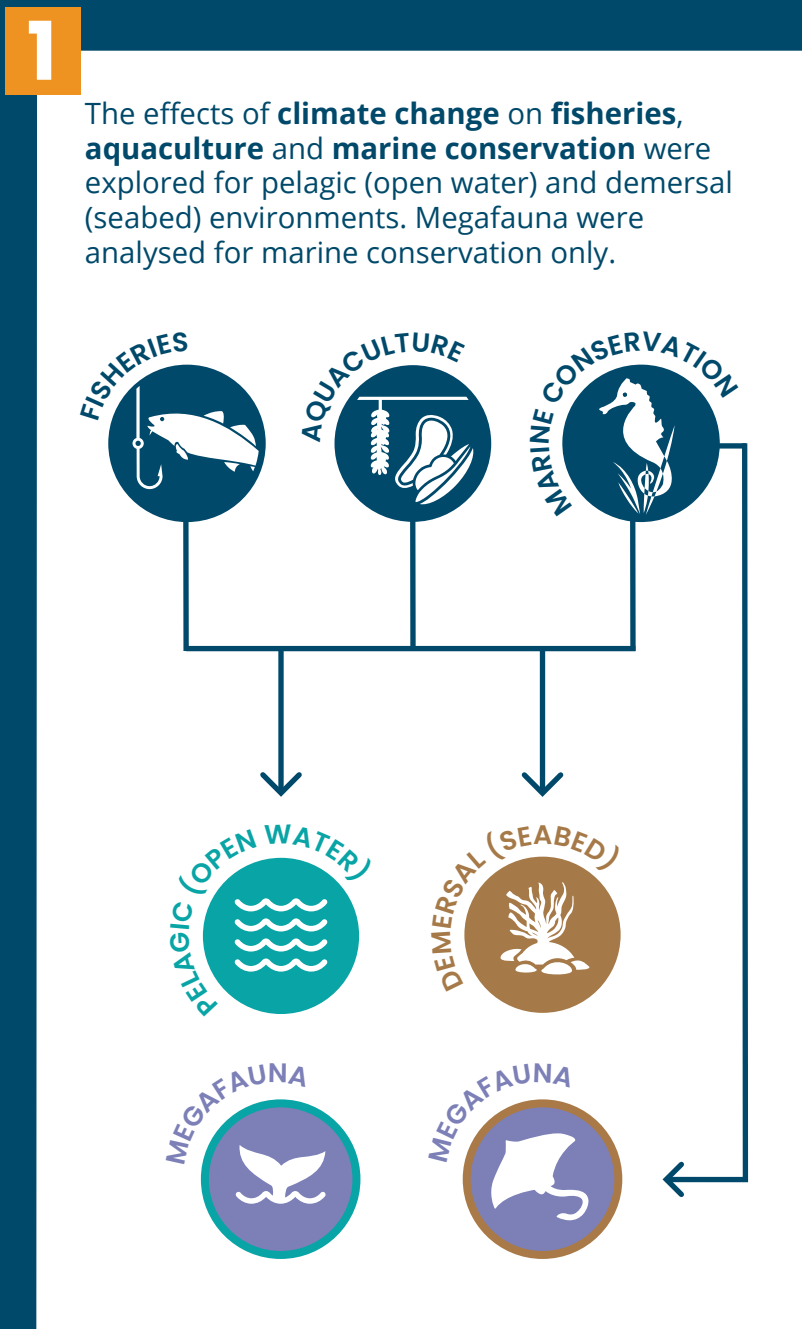


CLIMATE-SMART MANAGEMENT OF UK SEAS

Climate change is already affecting species and habitats in UK seas. These effects are set to markedly increase if greenhouse gas emissions continue to rise and accelerate global warming. Given this urgency, more specific guidance and support is needed to enable planners and other marine managers to implement climate-smart solutions.

This infographic illustrates the projected impacts of climate change on the marine conservation, fisheries, and aquaculture sectors in the UK Exclusive Economic Zone (EEZ), by showing where, and for how long, environmental conditions remain favourable for these sectors over this century.



The summary report and full report can be found [here](#).

4



Identified **widespread long-term Climate Change Refugia** could support **pelagic fisheries** under a moderate emissions scenario, but are **greatly reduced under high emissions**.

Climate change impacts are expected to be **widespread** by mid-century under both emissions scenarios. **Management measures may support more resilient target species** (e.g. hake and saithe).



Under both emission scenarios, **Climate Change Hotspots** would emerge throughout the UK EEZ and may **reduce the growing potential of currently farmed species** in coming decades.

Under both emissions scenarios, **widespread Climate Change Refugia** could support **sector expansion for shellfish aquaculture**.

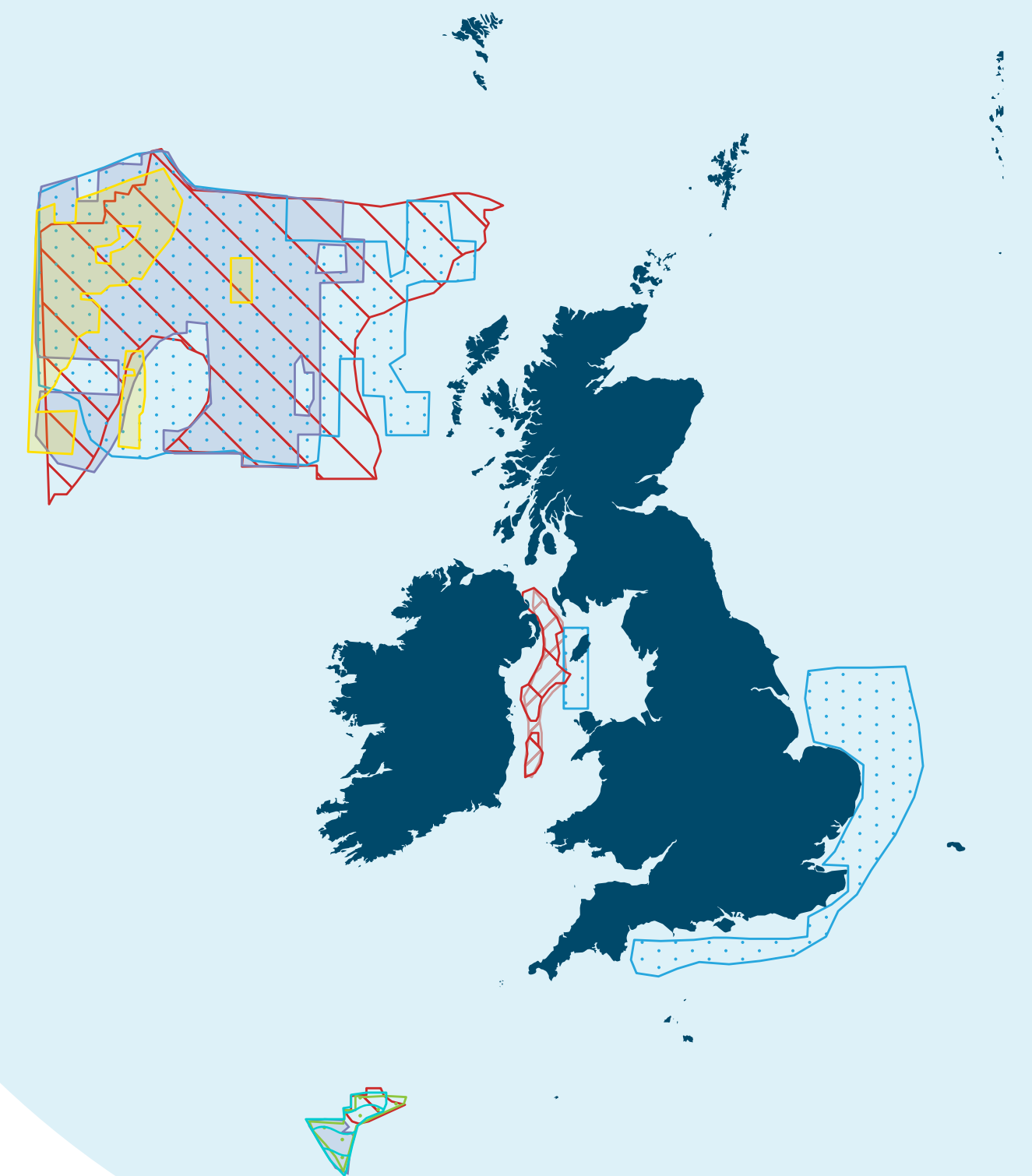


Under a moderate emissions scenario, **Climate Change Refugia** are expected to be **widespread**, but are substantially reduced by the next decade under high emissions.

Climate Change Hotspots are expected to encompass many **existing conservation sites**, but some long-term climate change refuges could be identified. Other uses of the marine environment may exacerbate climate effects.

Under both emissions scenarios, **Climate Change Hotspots** are **widespread** as early as the 2030s.

Under a moderate emissions scenario, **Climate Change Refugia** are expected to be **widespread**, but are **substantially reduced under high emissions**.



This map illustrates the **location of sites identified as long-term marine Climate Change Refugia**, with high confidence (both emissions scenarios assessed).

Map key:

- Blue dotted box: PELAGIC FISHERIES
- Green dotted box: DEMERSAL FISHERIES
- Yellow dotted box: PELAGIC MEGAFUNA
- Purple dotted box: DEMERSAL MEGAFUNA
- Red hatched box: PELAGIC AQUACULTURE
- Orange hatched box: DEMERSAL AQUACULTURE
- Blue wavy line: PELAGIC HABITATS
- Blue wavy line: DEMERSAL HABITATS

*Pelagic habitats were not visualised from this analysis because there were no long-term Climate Change Refugia when both emissions scenarios were assessed together.

