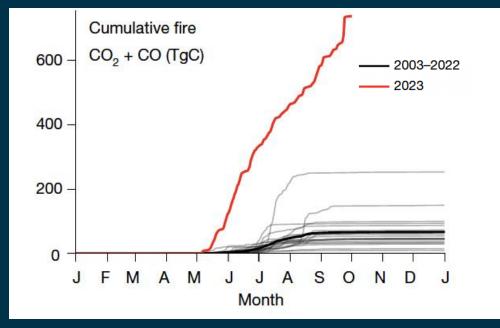


XFires

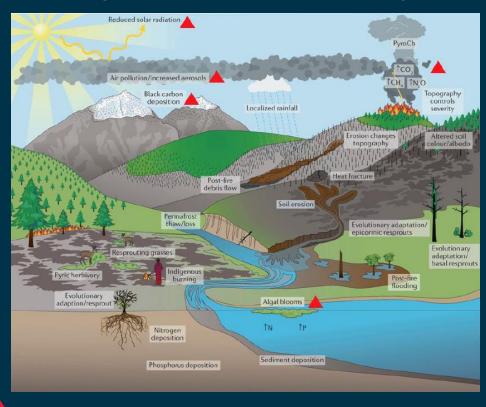
Modelling multidimensional causes and impacts of extreme fires in the climate system through X-ECV analysis

Variety of Environmental Impacts





Byrne et al., 2024

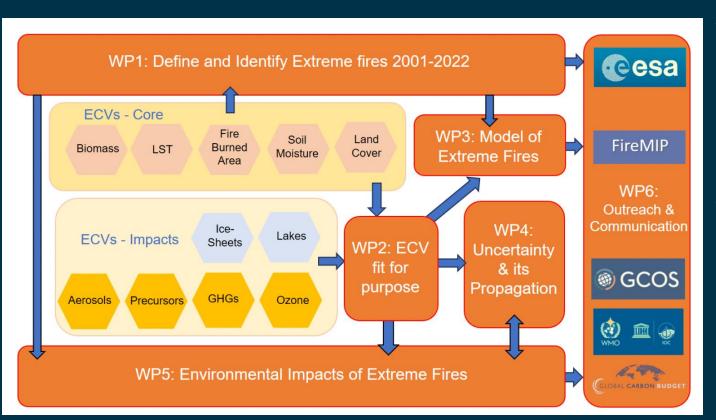


XFires foci

Bowman et al., 2009, 2020



XFires Aim: a holistic understanding of extreme fires and their impact in the Earth system.



- Use relevant ECVs, to help **define and differentiate** extreme fires from
 'normal' fires: fire, biomass, land
 cover, LST, soil moisture.
- Determine the *impact* of extreme fires using case studies on their atmospheric and climate impact using ECVs: Greenhouse gases, ozone, precursors and aerosols, and broader environmental impacts: Ice-sheets (Greenland), and Lakes.