



Outstanding Student & PhD
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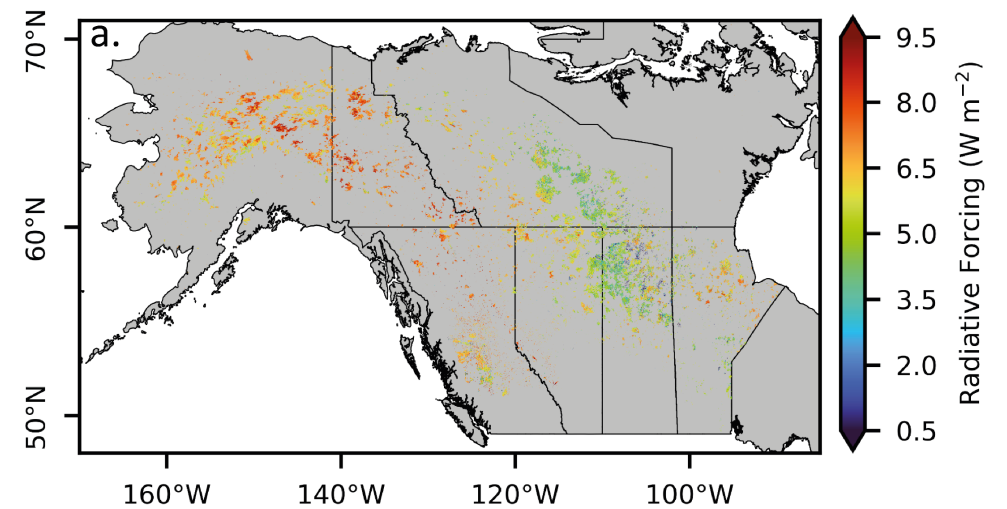
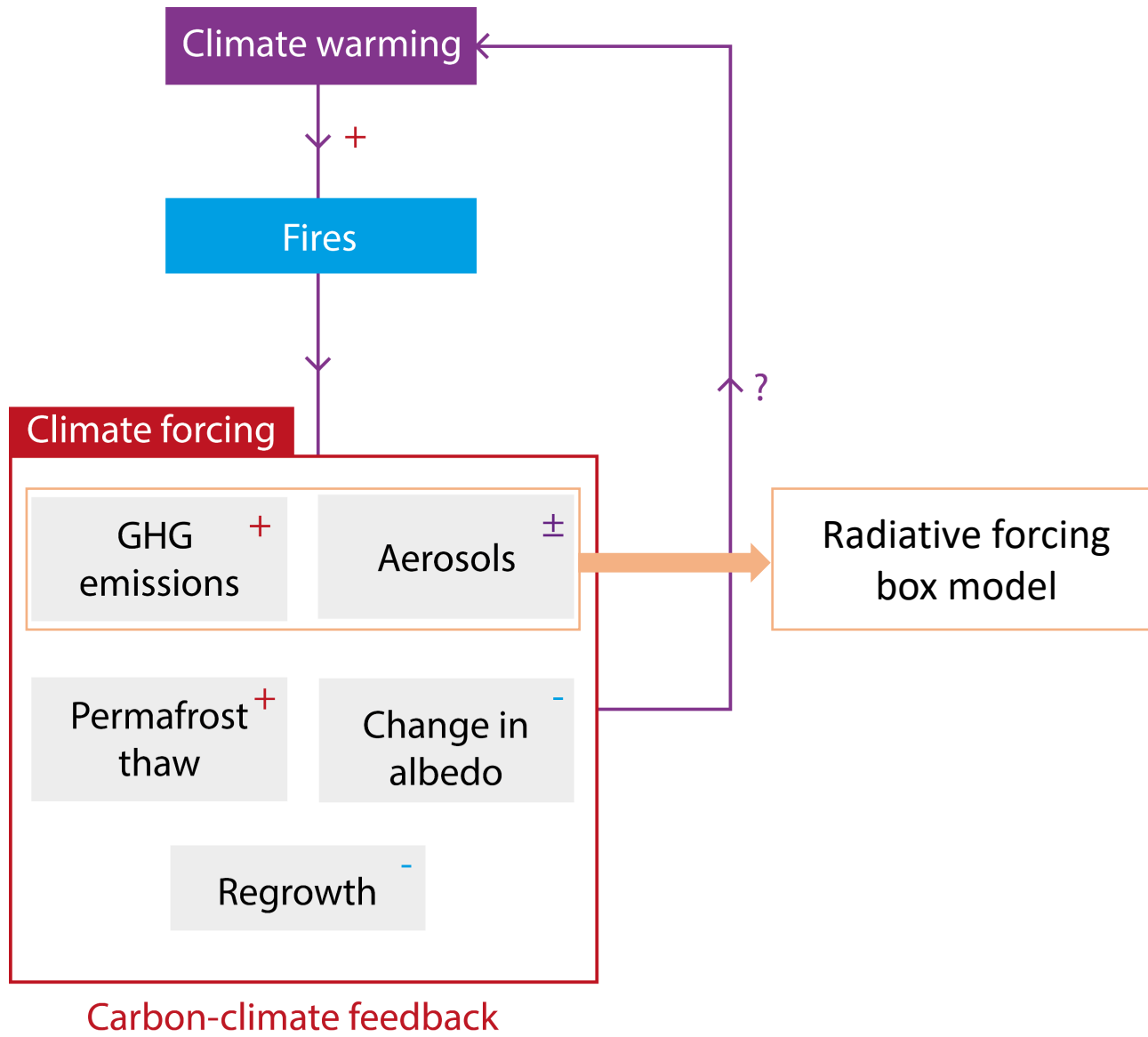


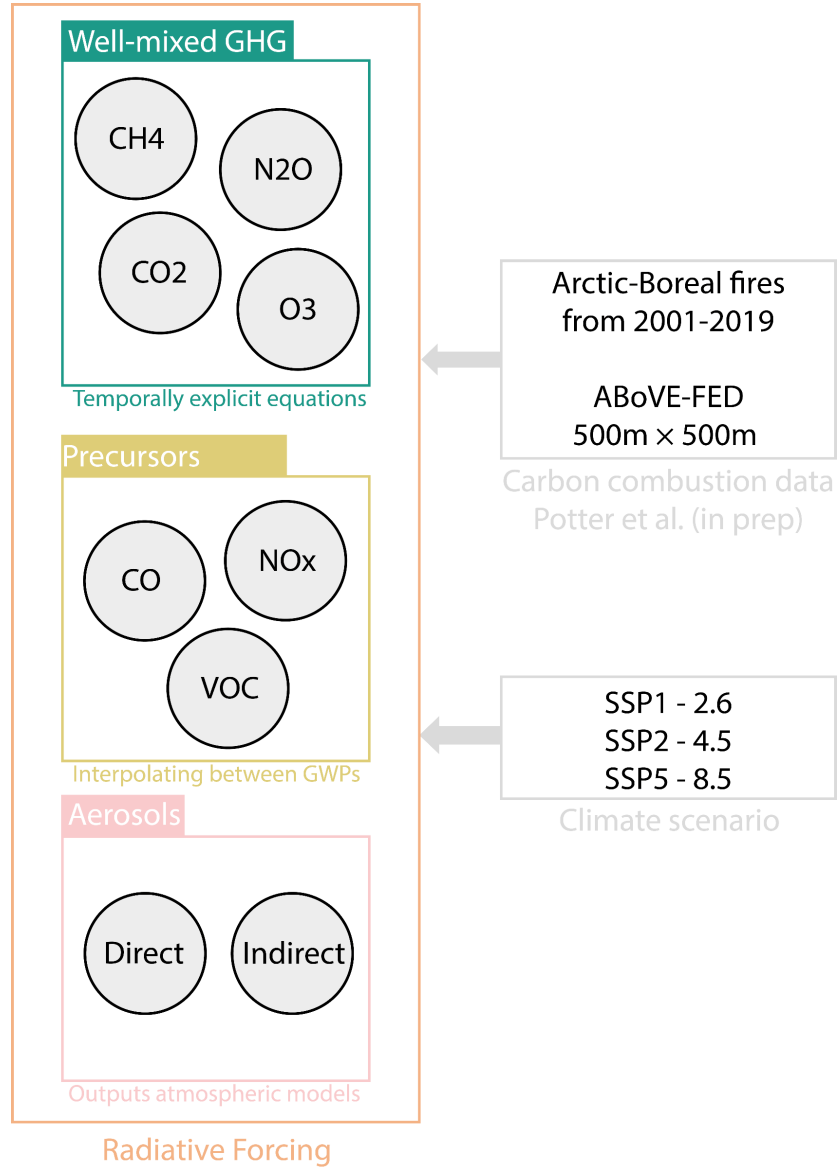
Integrated Climate Radiative Forcing from Arctic-Boreal Fires

Max J. van Gerrevink, Sander Veraverbeke, Sol Cooperdock, Stefano Potter, Michael Moubarak, Scott J. Goetz, Michelle C. Mack, James T. Randerson, Merritt R. Turetsky, and Brendan M. Rogers

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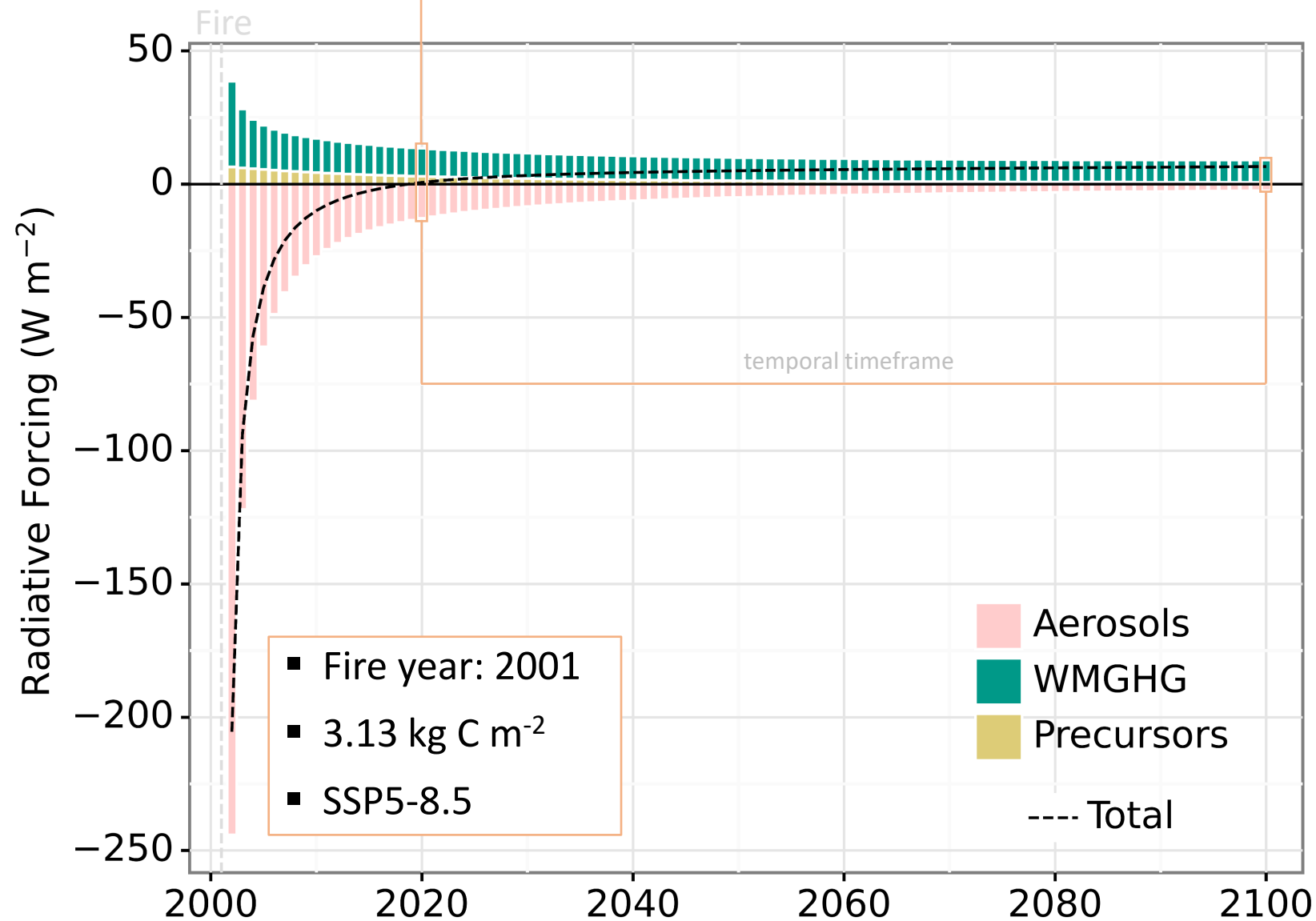
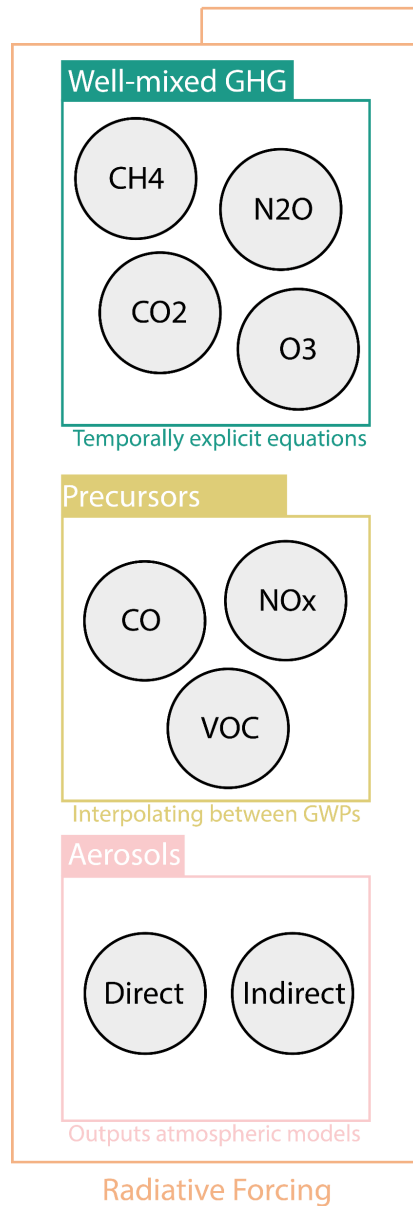
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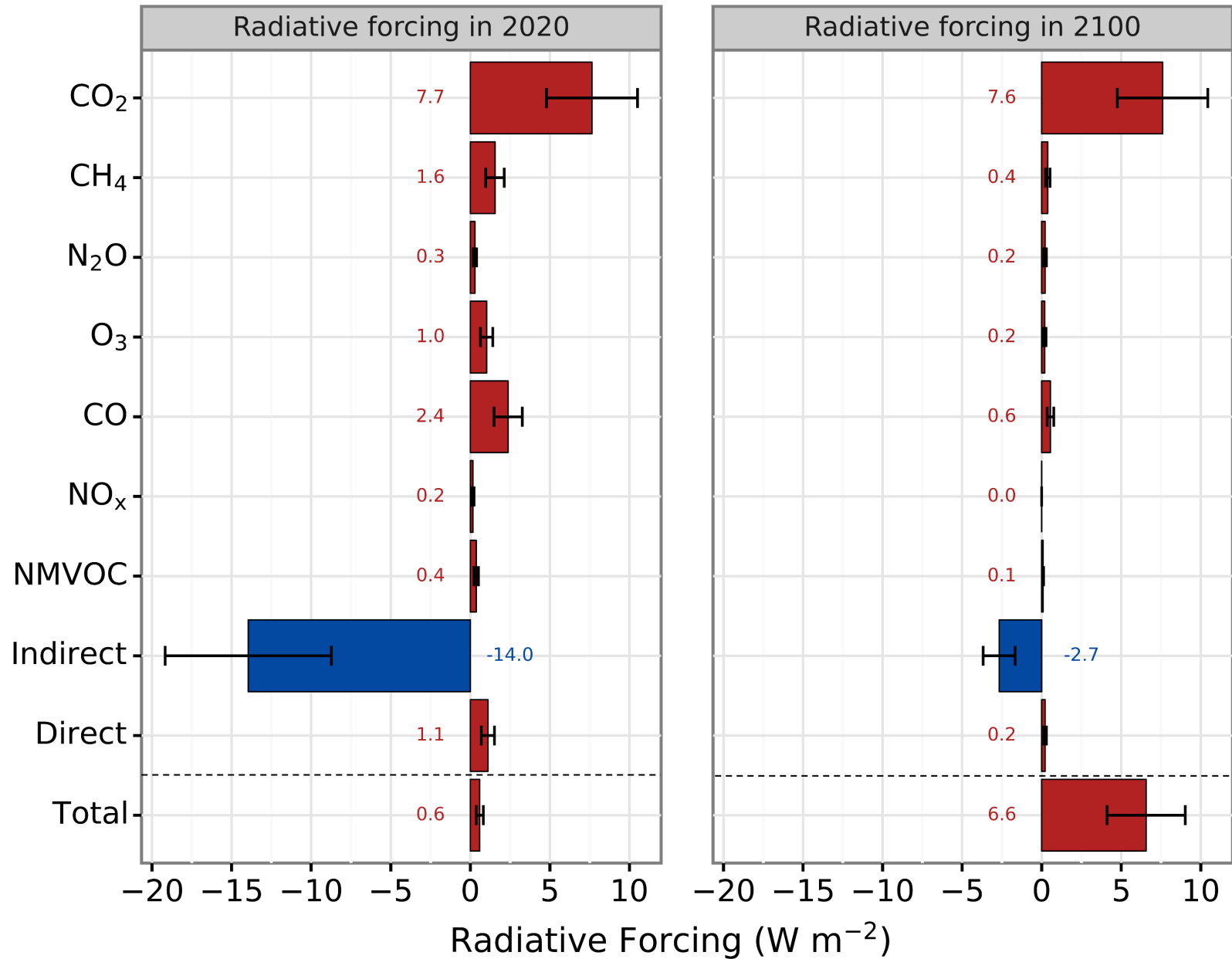




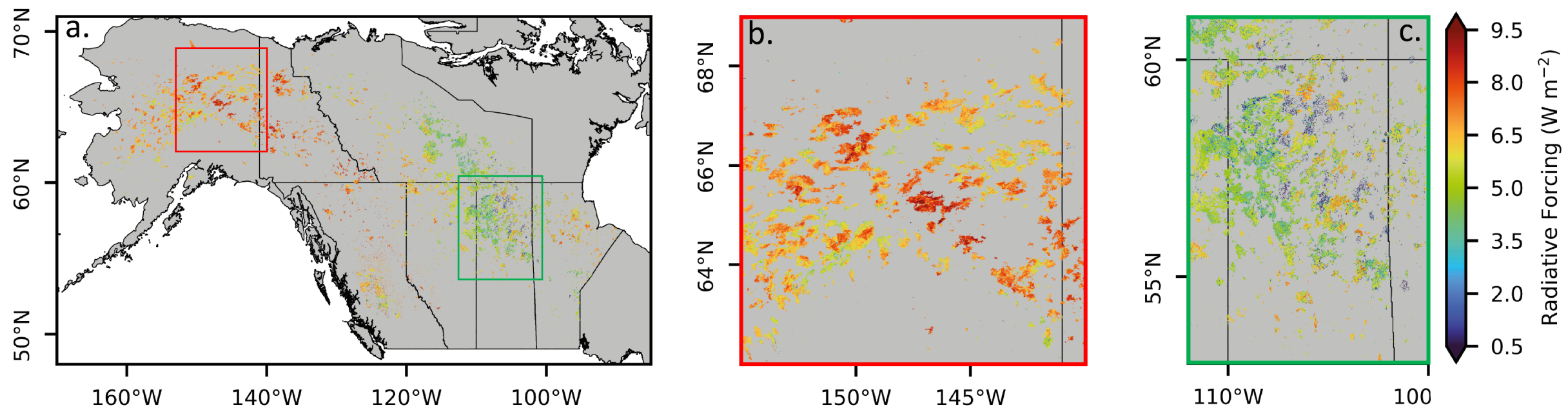
Radiative forcing

Expresses the rate of energy change per area at the top of the atmosphere (W m^{-2})

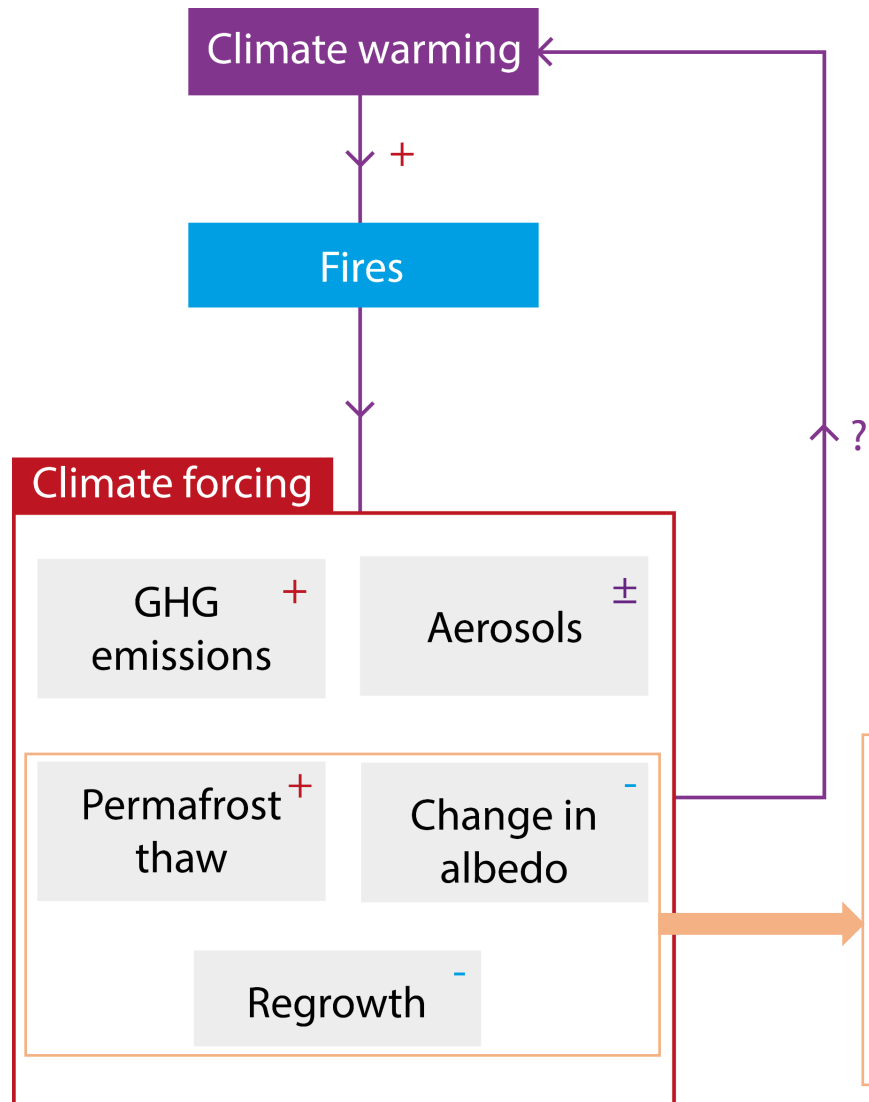




Arctic-boreal fires from 2001-2018 in 2100 (SSP5-8.5)



* Fires from 2019 will be added to this assessment



Carbon-climate feedback

Outlook: Integrating Radiative Forcing

- Post-fire albedo,
- Post-fire regrowth trajectories based on fire severity,
- Fire-induced permafrost degradation.



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