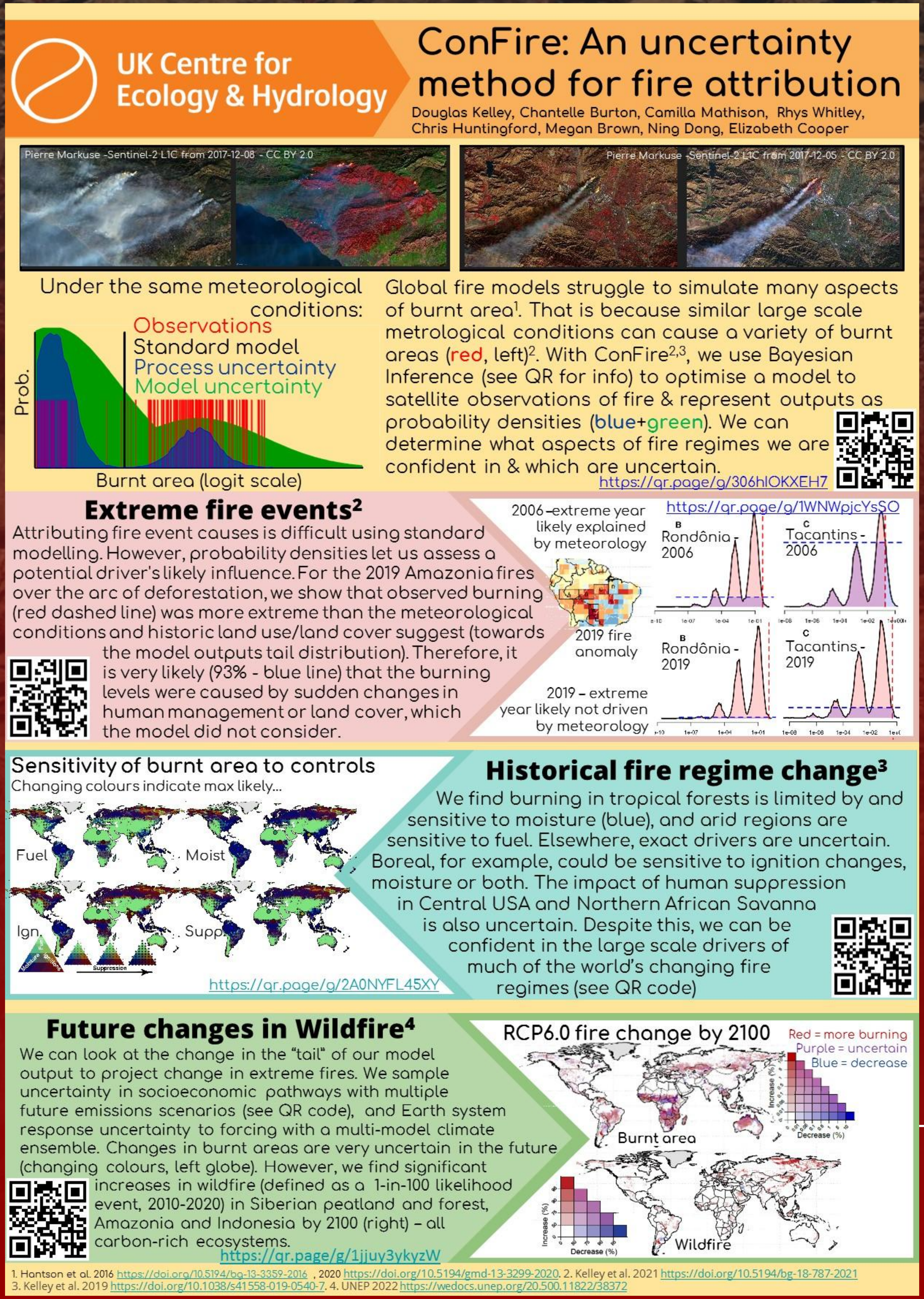
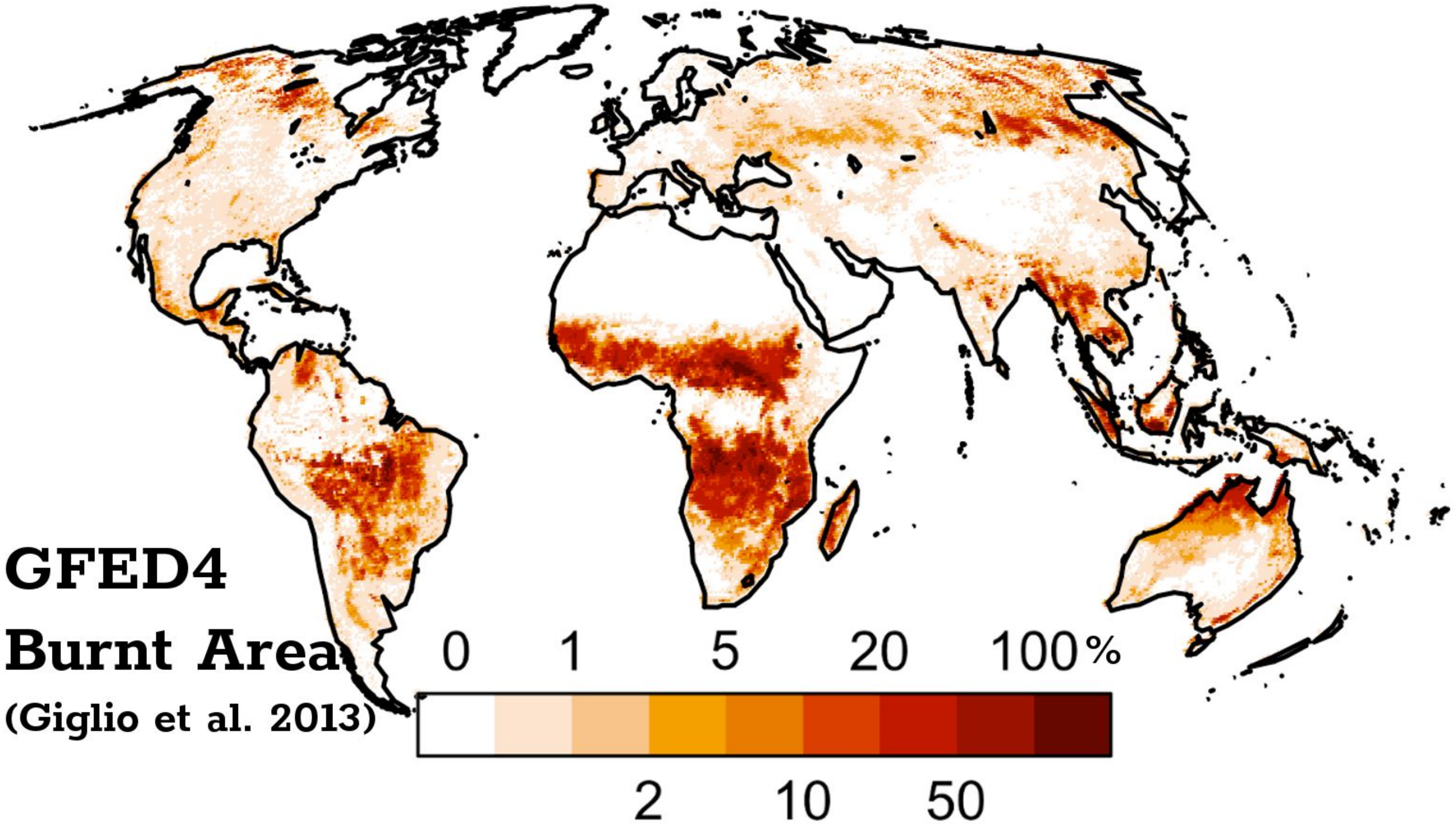



# See ConFire poster

**Click here**

# How we projected wildfire changes, given big uncertainties in global fire modelling


# Fire that is not "wild"fire




Wildland prescribed fire at Miller Woods - fllickr - - CC BY-NC 2.0

Fire in Top End savanna NT by Jaana Dielenberg - flirckr - CC BY-NC 2.0

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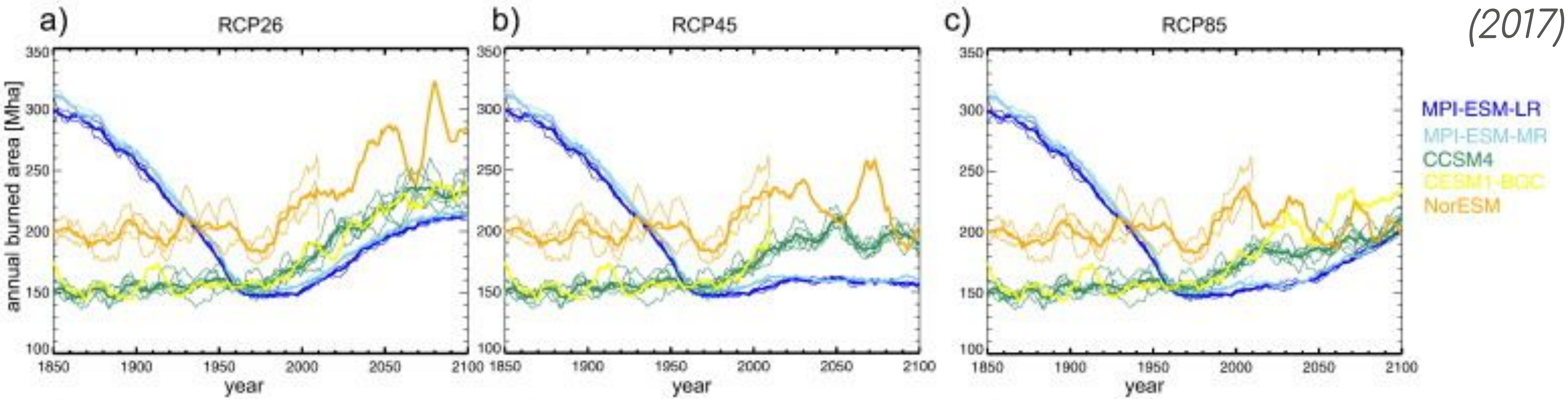
Day after burning
6 months after fire

# What are “wildfires”?

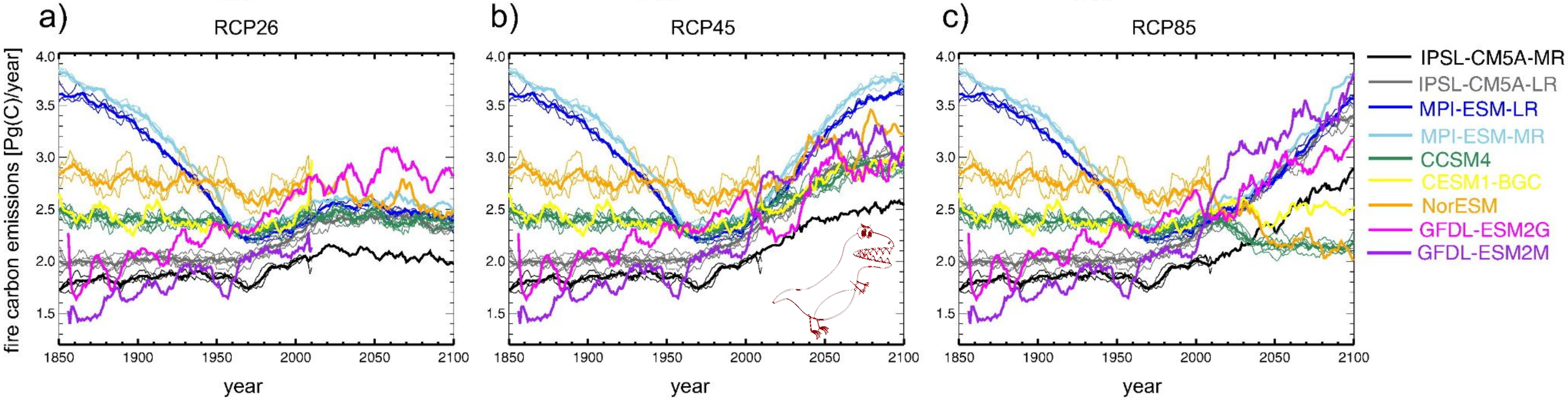
# Future projections on fire

*Kloster & Lasslop (2017)*

**Burnt Area**




**Fire C emissions**



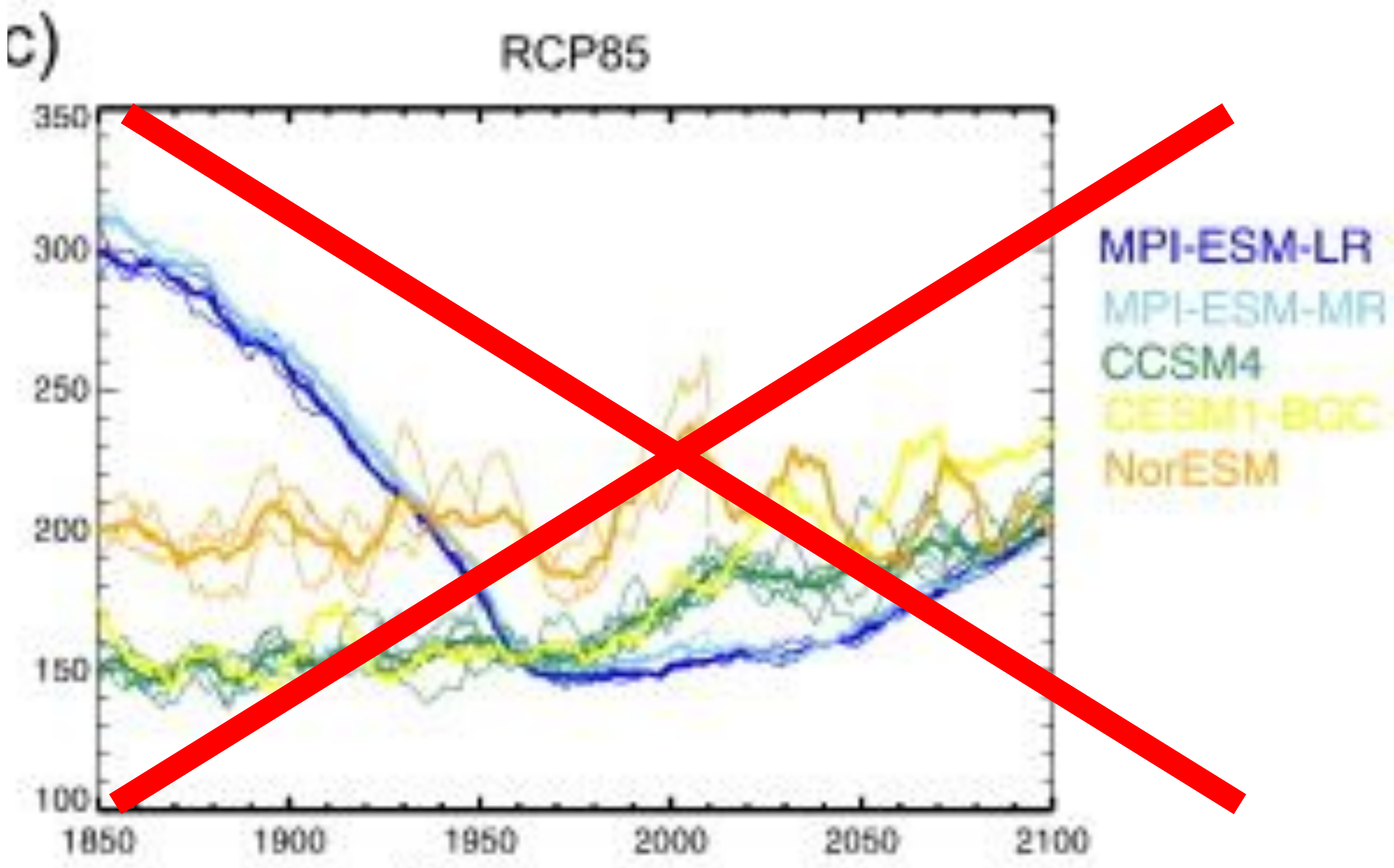
**Multi-model projections are too broad to say anything meaningful future burning.**

**Most global fire models do not simulate “wildfire”**

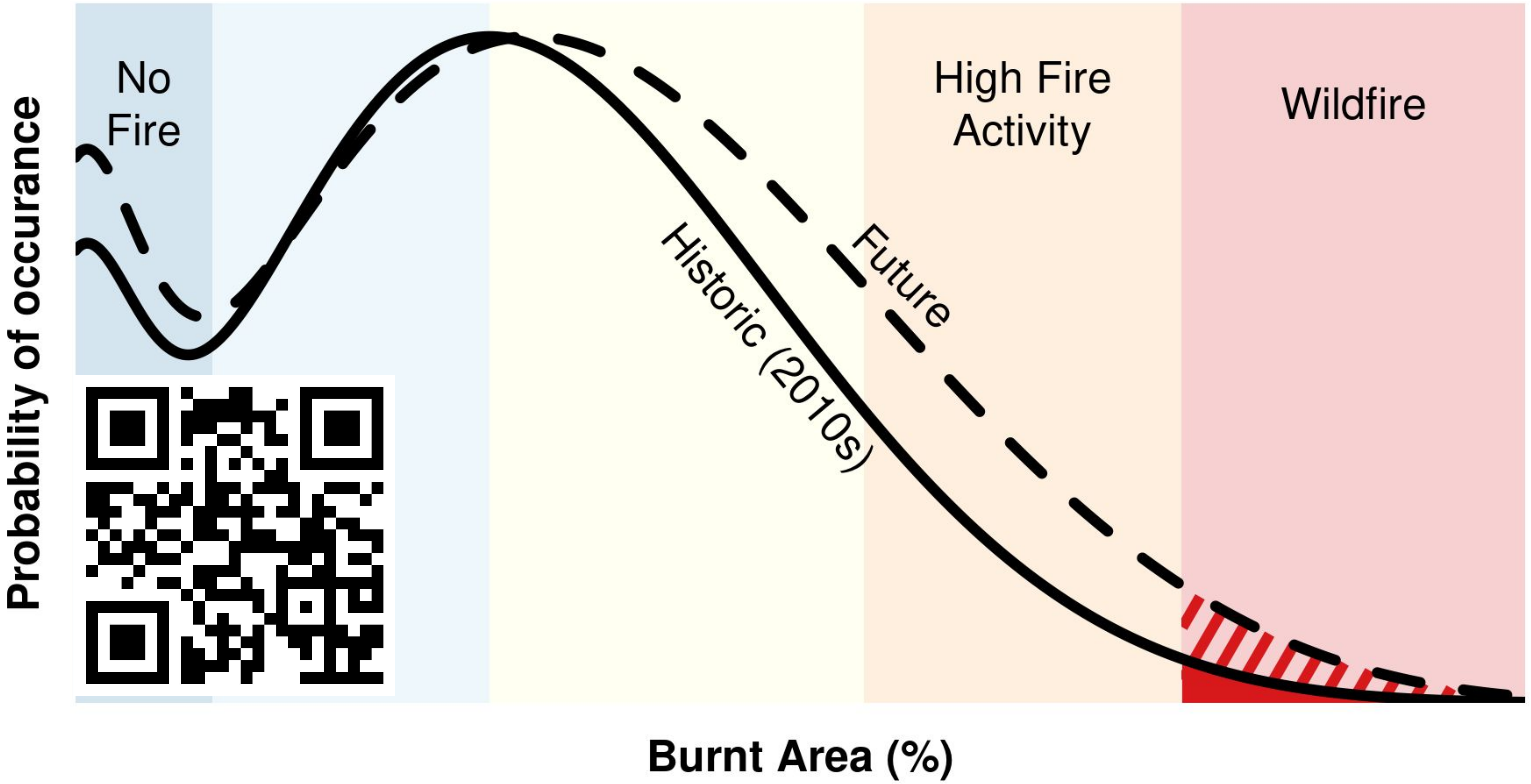
| | Landscape fires | Wildfires |
|---|---|---|
| Frequency | Often seasonal; occur under moderate fire conditions; quite often intentionally lit | Linked to extreme fire weather |
| Intensity | Low to moderate intensity with short episodes of high intensity | Mostly high intensity with some periods of moderate intensity |
| Suppressibility | Easily controlled with regular firefighting resources | Control measures may exceed regular firefighting resources |
| Impact | Low impact, with a positive impact on some species | High impact on one or more values (social, economic, environmental) |

# A 1-in-100 year burnt area under 2010-2020 climate conditions and land cover

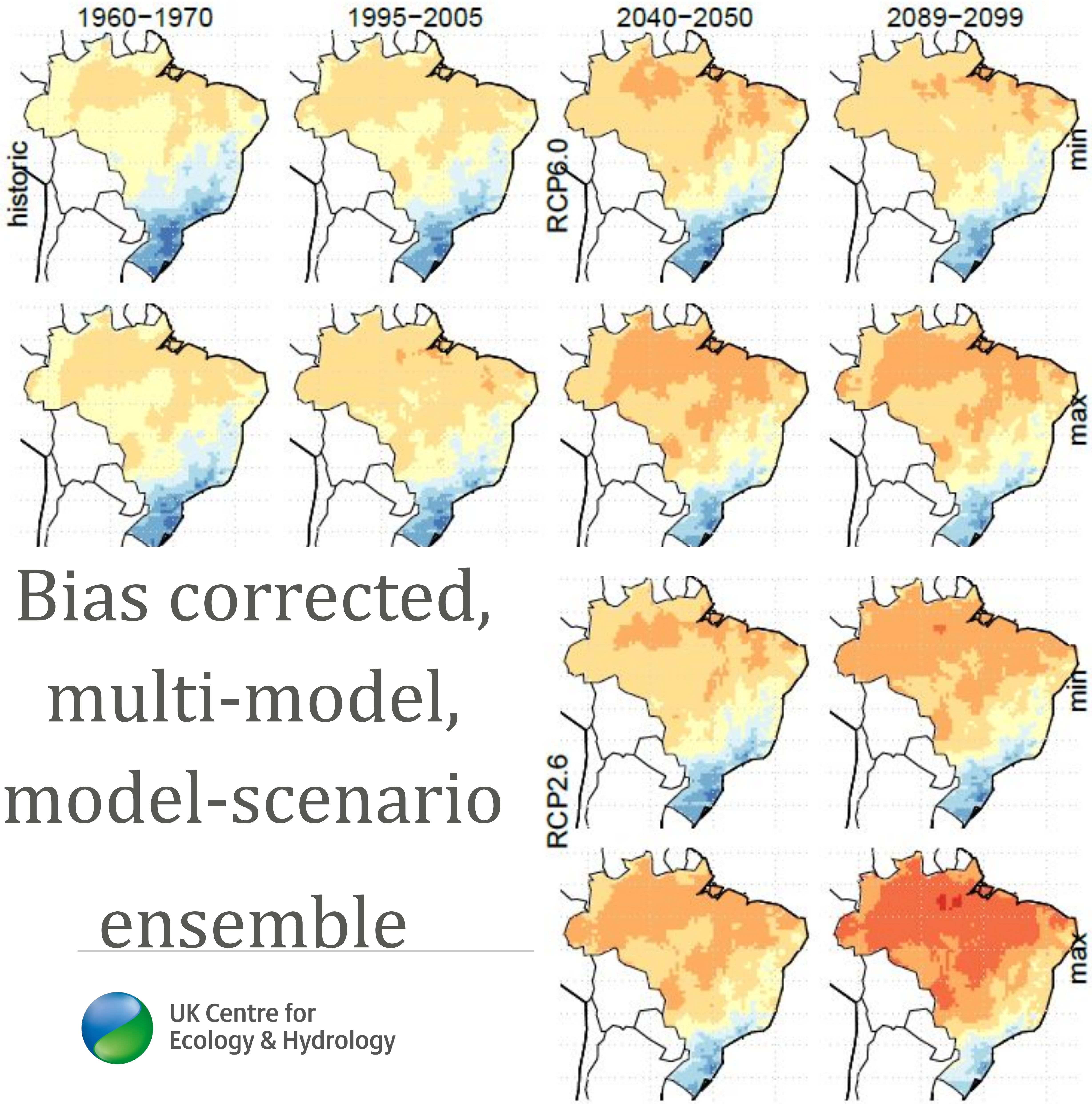
# ConFire - linking uncertainty to likelihood.



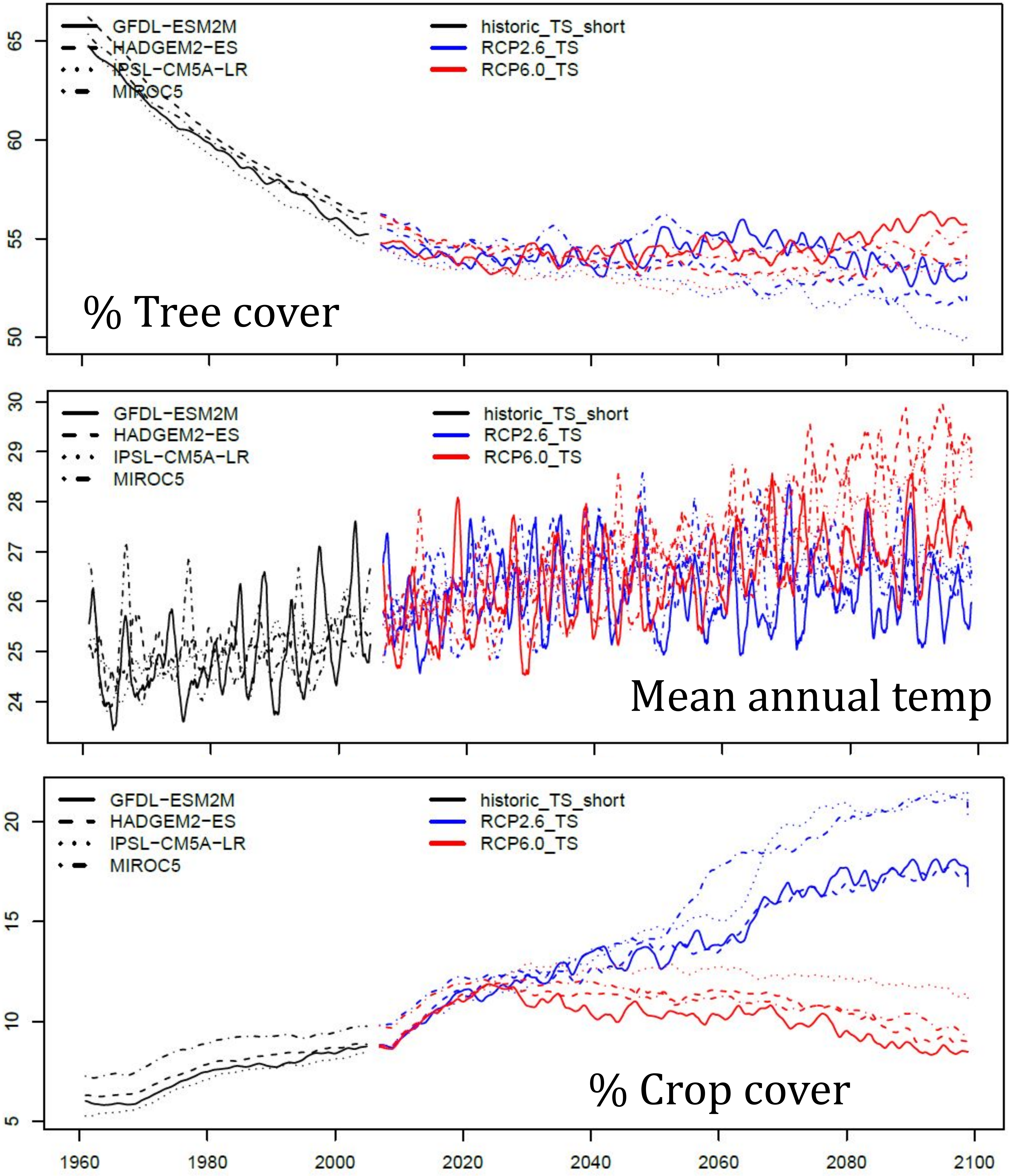

Use **observations** to find the **best model estimate** of wildfire and account for **remaining uncertainties** in climate, veg & fire model



# JULES-ISIMIP futures




Bias corrected, multi-model, model-scenario ensemble

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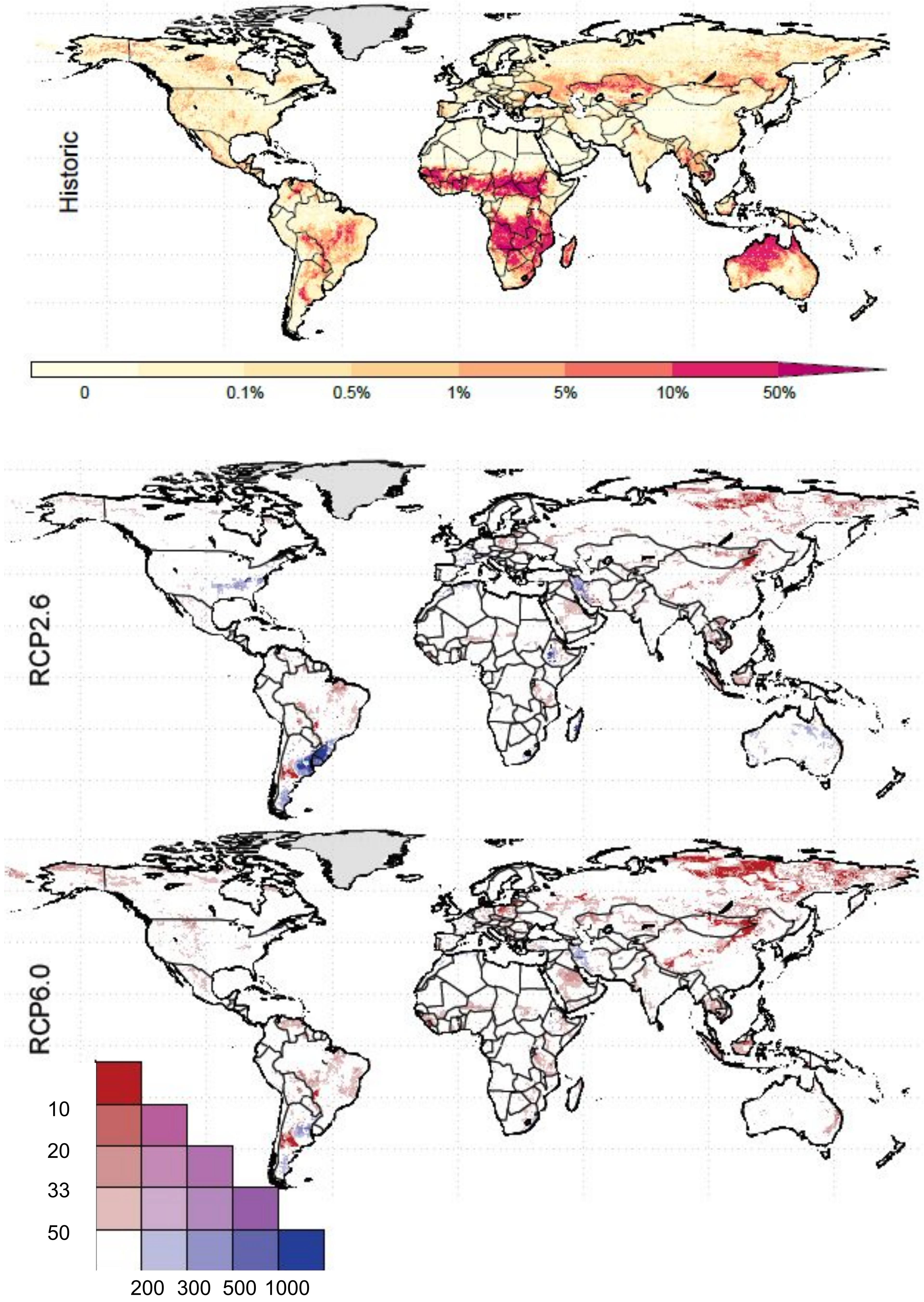
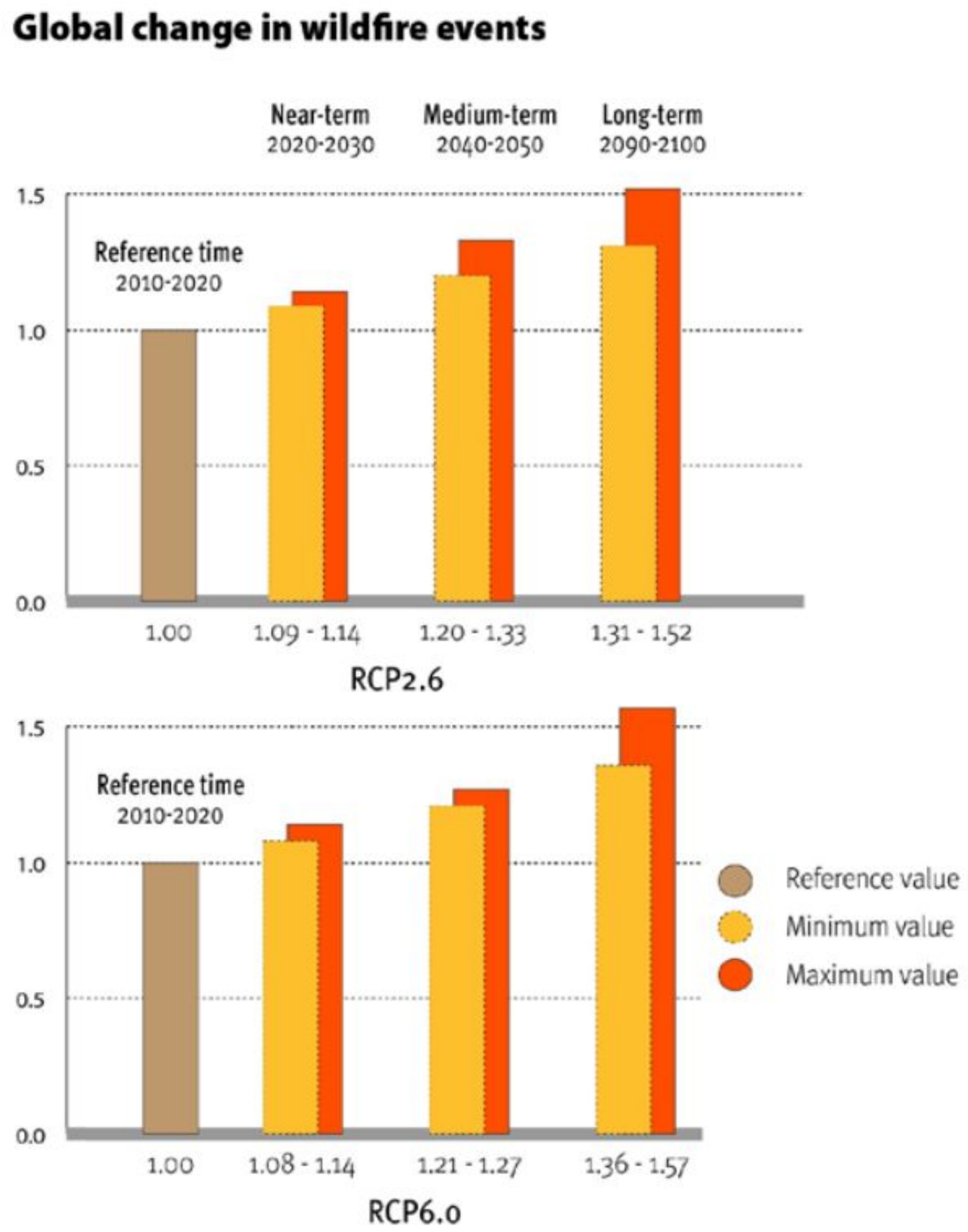
# Changes in burnt area

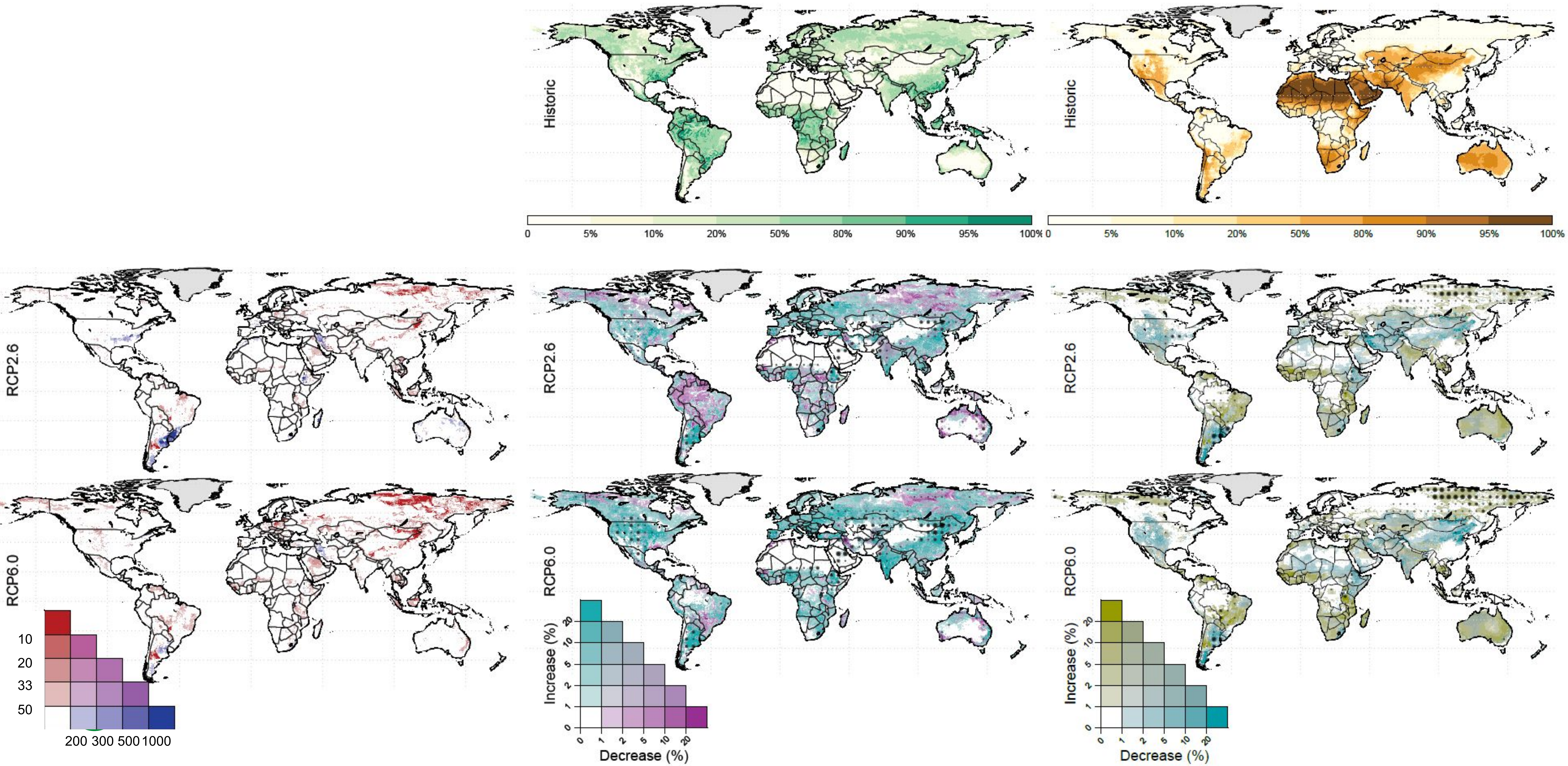


# Changes in Controls

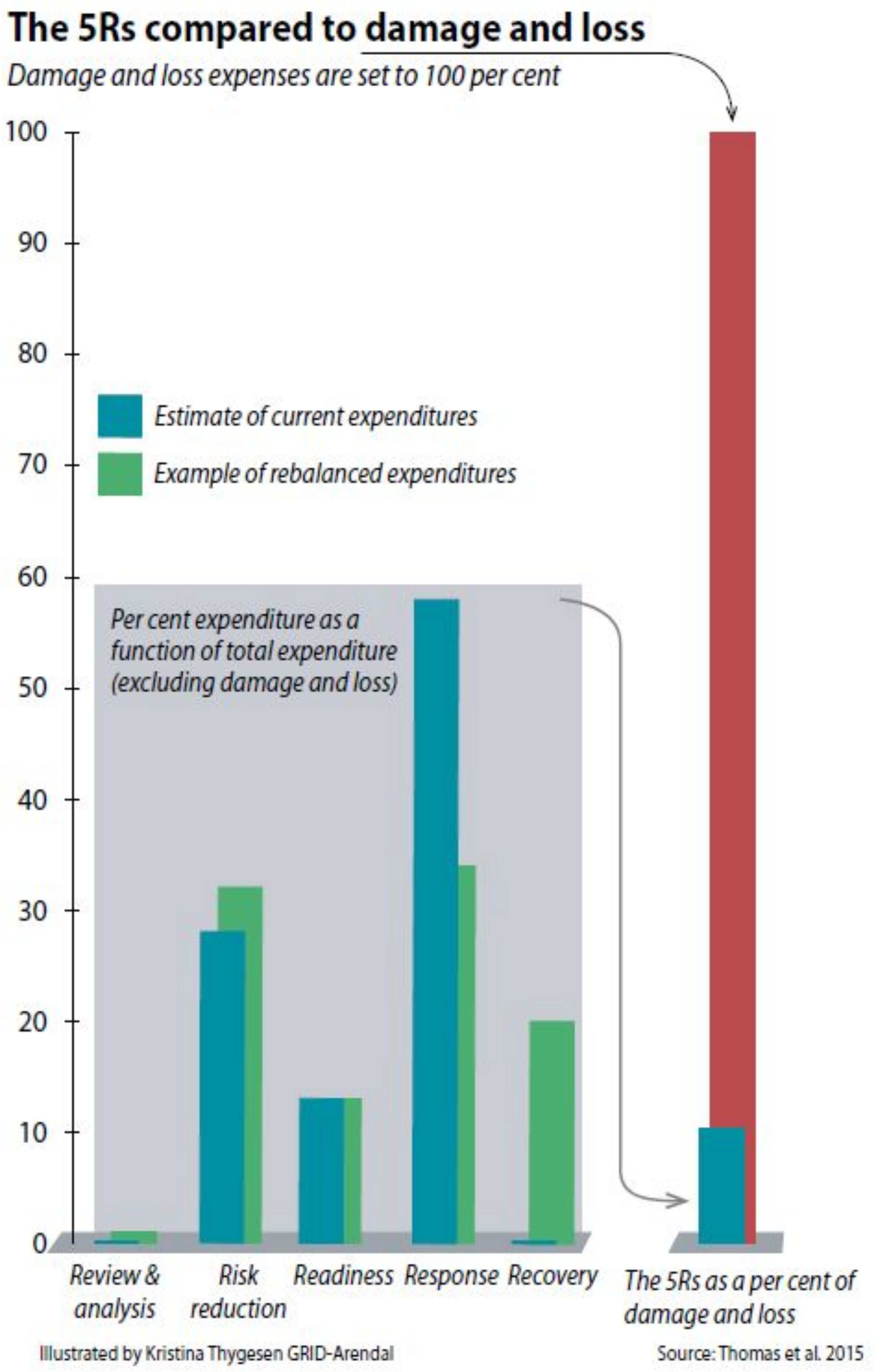
## Fuel load

## Fuel dryness



# What's missing

There is still large gap between fire modelling and global change, impacts, land management policy and fire management techniques

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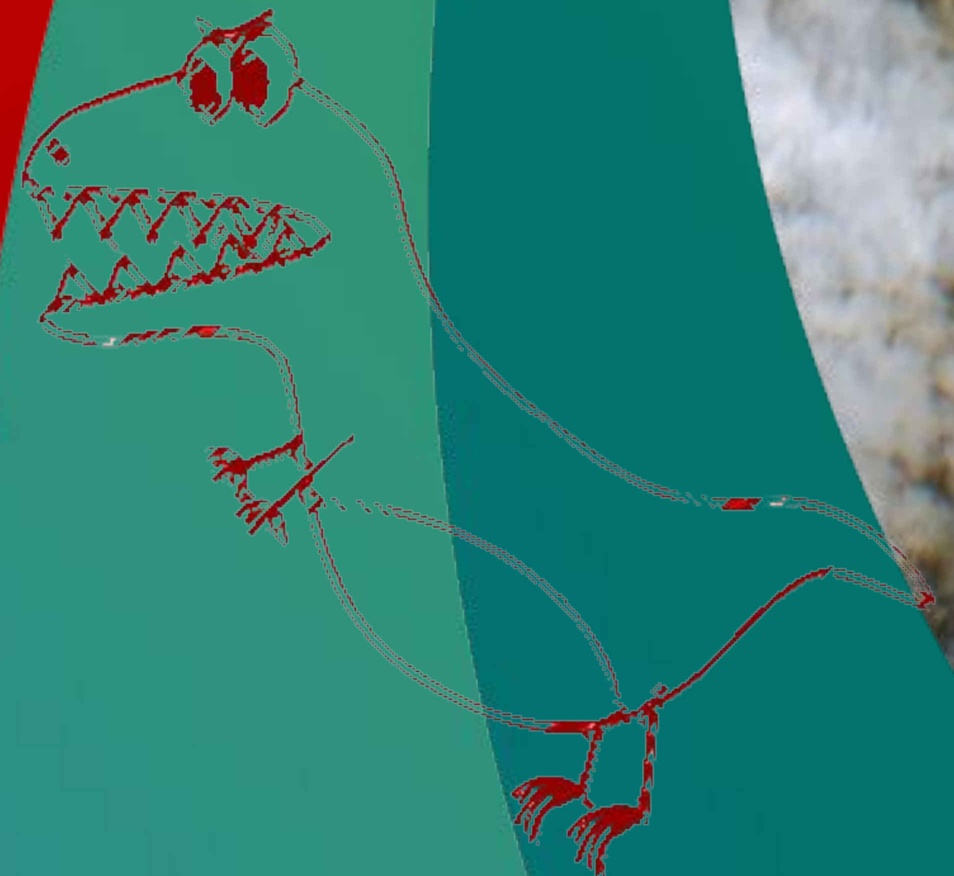
# **Likely** future(**s**) of global **wild**fire

**Douglas Kelley Camilla Mathison, Chantelle Burton, Megan Brown, Tiina Kurvits, Elaine Baker, Andrew Sullivan**

**+ the JULES-ISIMIP/ConFire teams**

**& "Spreading like wildfire" UNEP authors**



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