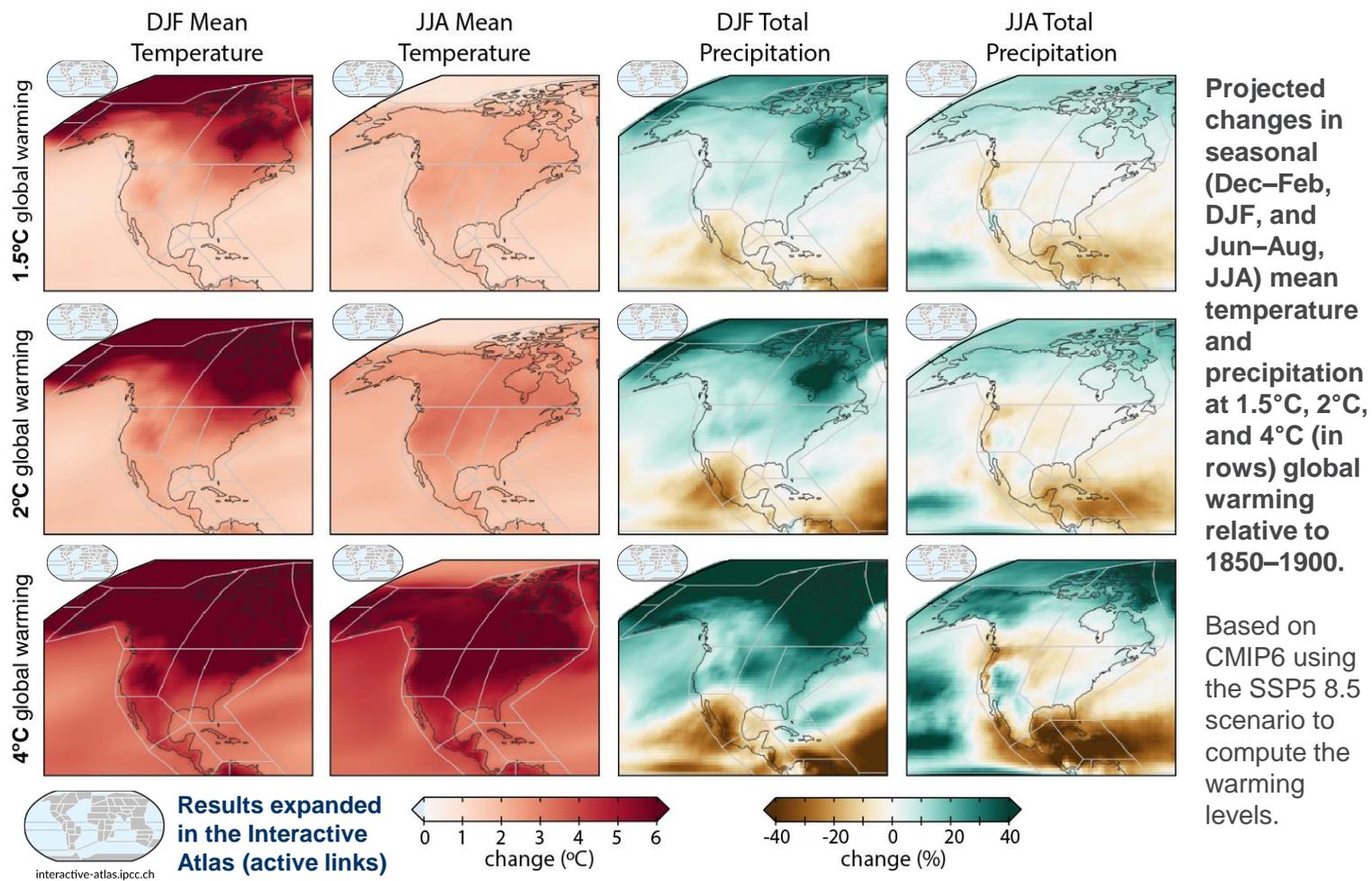


Regional fact sheet – North and Central America

Common regional changes

- North and Central America (and the Caribbean) **are projected** to experience climate changes across all regions, with some common changes and others showing distinctive regional patterns that lead to unique combinations of adaptation and risk-management challenges. These shifts in North and Central American climate **become** more prominent with increasing greenhouse gas emissions and higher global warming levels.
- Temperate change (mean and extremes) **in observations** in most regions is larger than the global mean and **is attributed** to human influence. Under all future scenarios and global warming levels, temperatures and extreme high temperatures **are expected** to continue to increase (*virtually certain*) with larger warming in northern subregions.
- Relative sea level rise **is projected** to increase along most coasts (*high confidence*), and are associated with increased coastal flooding and erosion (**also in observations**). Exceptions include regions with strong coastal land uplift along the south coast of Alaska and Hudson Bay.
- Ocean acidification (along coasts) and marine heatwaves (intensity and duration) **are projected** to increase (*virtually certain and high confidence*, respectively).
- Strong declines in glaciers, permafrost, snow cover **are observed** and **will continue** in a warming world (*high confidence*), with the exception of snow in northern Arctic (see overleaf).
- Tropical cyclones (with higher precipitation), severe storms, and dust storms **are expected** to become more extreme (Caribbean, US Gulf Coast, East Coast, Northern and Southern Central America) (*medium confidence*).

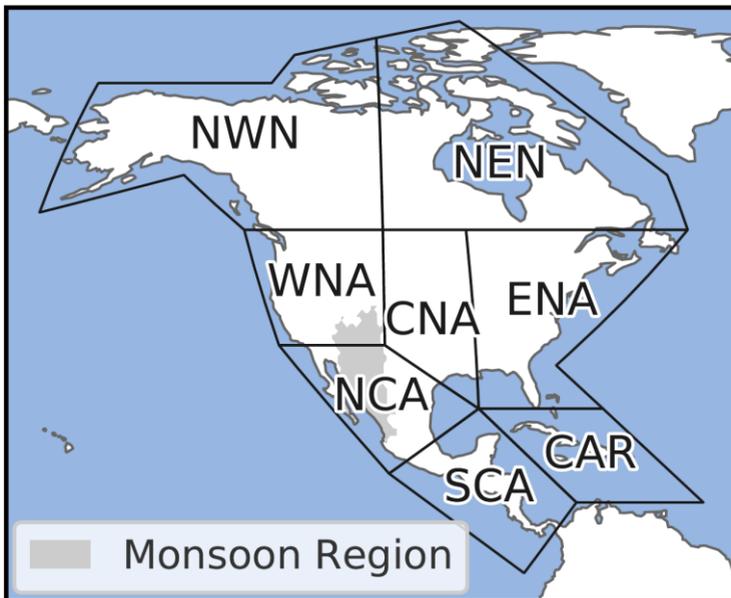


Northern North America (NWN and NEN)

- Temperature increases **are projected** to be very large compared to the global average, particularly in the winter (*high confidence*).
- **Will experience** annual precipitation increases (mean and extremes, *high confidence*) and in December–February (*likely*) snow amount in far northern parts of subregions (also see Introduction and Polar Fact Sheets).

Central and Western North America (CNA and WNA)

- Increases in drought and fire weather in WNA and CNA **in observations** and **will continue** to increase in the future particularly at higher warming levels (*high confidence*, but *medium confidence* for fire weather in CNA)
- **Projected** increase in extreme precipitation (*very likely*)
- **Projected** increase in river and pluvial flooding (*medium confidence*)
- **Projected** increases in precipitation in northern part of CNA in winter (*medium confidence*).

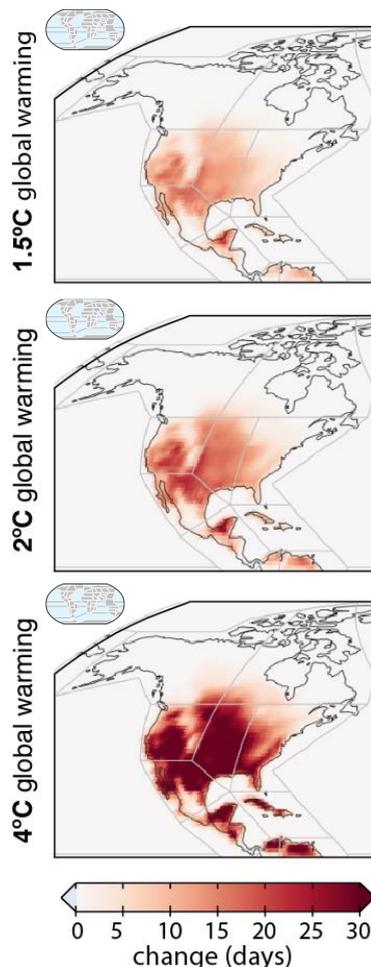


Northern, Southern Central America and Caribbean (NCA, SCA, and CAR)

- **Anticipated** decrease in NA Monsoon precipitation (*medium confidence*).
- Mean annual and summer precipitation **is likely to decrease**, throughout the subregions but with large uncertainty regarding amount.
- **Observed** increase in droughts in NCA, SCA, and CAR, and these will continue in the future (*high confidence*).
- Fire weather **is projected to** increase in NCA (*high confidence*) and SCA (*medium confidence*).
- **Projected** temperature increases **will be similar** to the global mean change in Central America, but less than the global mean in CAR.

Eastern North America (ENA)

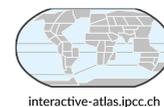
- **Increases** in mean and extreme precipitation (*very likely*).
- **Expected** increase in river and pluvial flooding (*medium confidence*)



Projected changes in number of days with daily maximum temperatures over 35°C in summer at 1.5°C, 2°C, and 4°C (in rows) global warming relative to 1850-1900.

Based on CMIP6 using the SSP5 8.5 scenario to compute the warming levels.

Results expanded in the Interactive Atlas (active links)



Links for further information:

Common Changes Box: TS.4.3.1, TS.4.3.2.6

Central and Western North America: TS.4.3.2.6, Table TS.5, Atlas.9.5, 12.4.6

Northern North America: TS.4.3.2.6, Atlas.9.5, 12.4.6, 12.4.9

Eastern North America: Atlas.9.5, Table TS.5, 12.4.6

Northern, Southern Central America and the Caribbean: TS.4.3.2.4, TS.4.3.2.6, TS.4.3.2.7, Atlas.9.5, Atlas.10.5 12.4.4, 12.4.6 and 12.4.7