

# IGBP CLIMATE-CHANGE INDEX

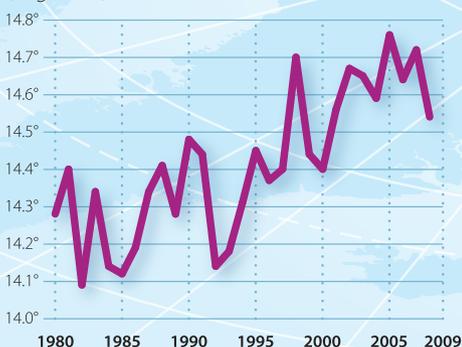
Global-change trends for the public and policymakers

## SEA LEVEL (millimetres)



Source: Church and White global mean sea-level reconstruction (CSIRO), using data from the Permanent Service for Mean Sea Level, Proudman Oceanographic Laboratory, Natural Environment Research Council

## GLOBAL AVERAGE TEMPERATURE (degrees C)



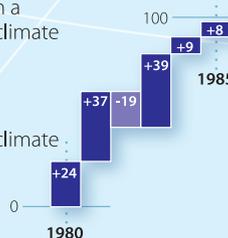
Source: NASA

### Rising index

A shift away from a relatively stable climate

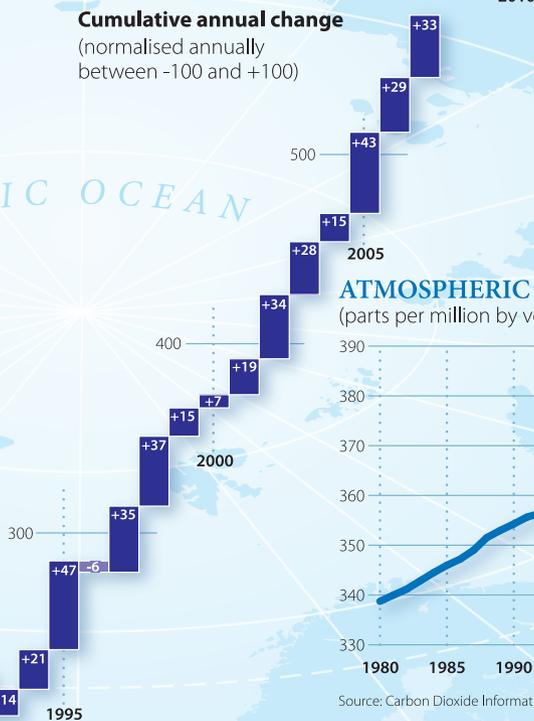
### Falling index

A shift towards a relatively stable climate

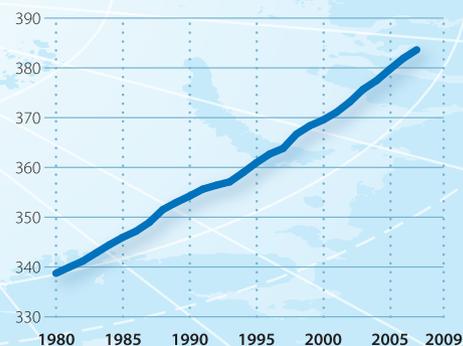


The IGBP climate-change index combines the four key metrics that help unravel what is happening to the planet: temperature, carbon dioxide levels, sea level and Arctic sea ice. The index combines annual changes in each of these directly-measured parameters. Each year's change is added to the previous year. Natural variability sometimes obscures general trends in these metrics. By drawing together the four metrics as a single figure, the IGBP climate-change index exposes the underlying trend.

## Cumulative annual change (normalised annually between -100 and +100)



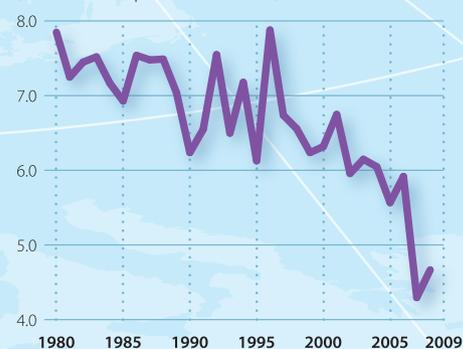
## ATMOSPHERIC CO<sub>2</sub> (parts per million by volume)



Source: Carbon Dioxide Information Analysis Center, Mauna Loa

## ARCTIC SEA-ICE COVER

Northern hemisphere summer sea-ice minimum (millions of square kilometres)



Source: NOAA