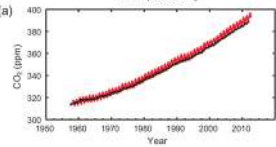
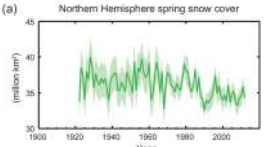
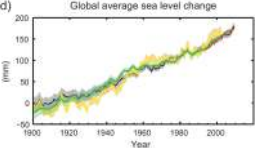
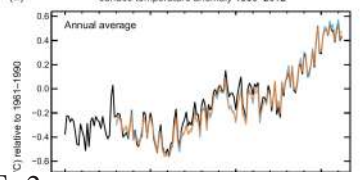
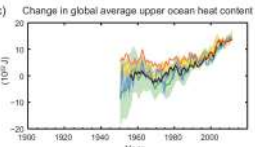
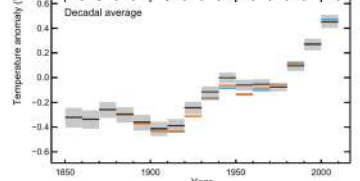
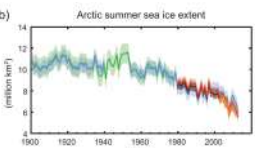
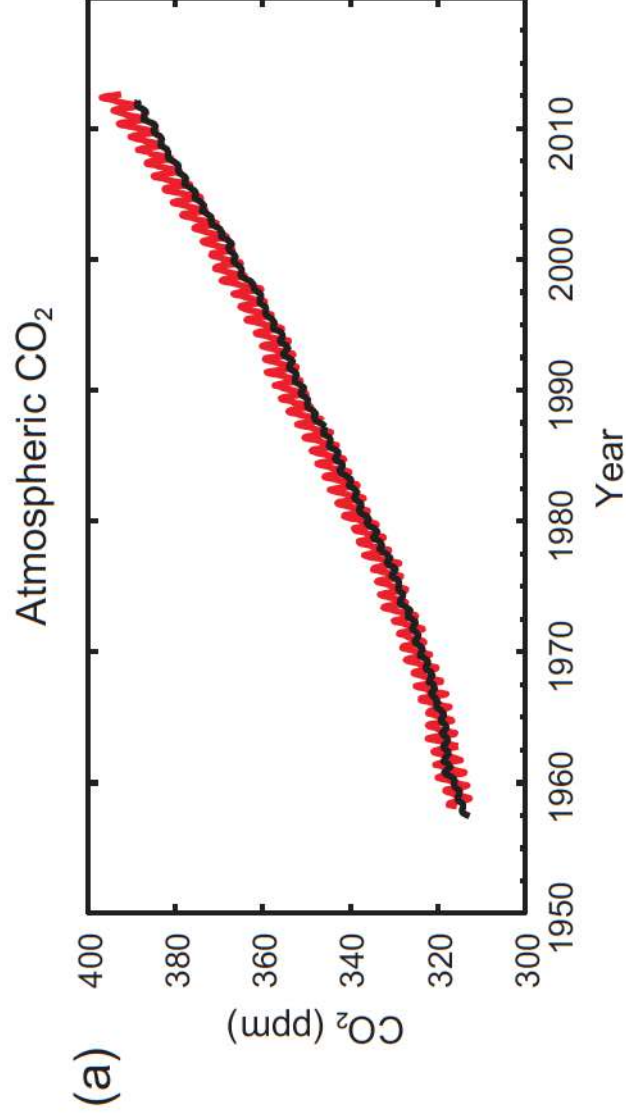


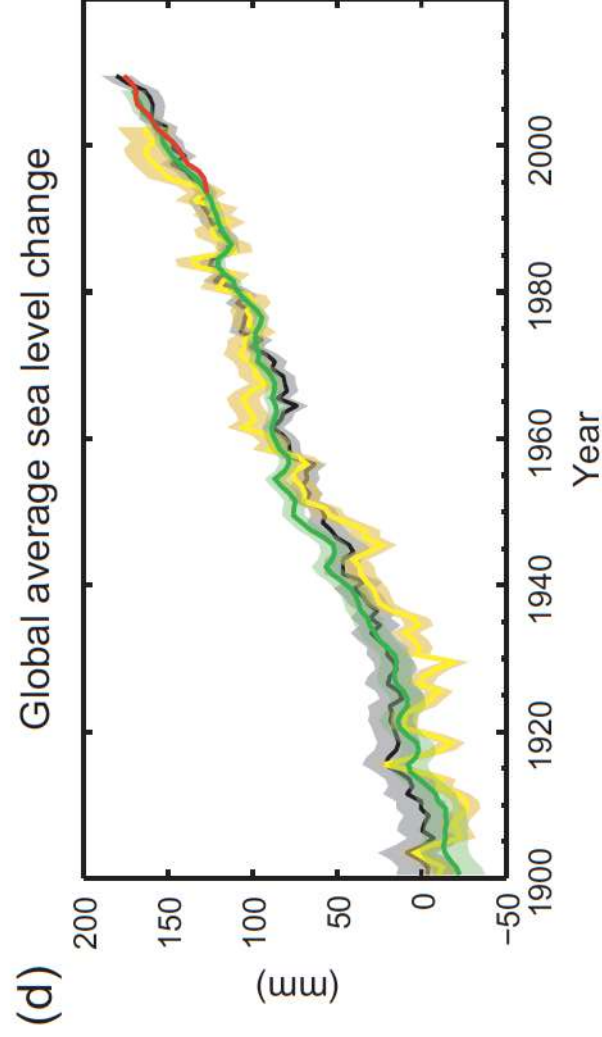
key to graph-quote pairs

(a) Atmospheric CO₂  “There’s more CO₂ in the atmosphere now than there used to be. CO₂ is carbon dioxide and causes the air to hold heat.” A=7	(a) Northern Hemisphere spring snow cover  “My grandmother says that winters are less snowy now than they were when she was a kid in the 1950s.” E=3
(d) Global average sea level change  “Sea level is going up as climate warms. This makes towns and cities near the ocean at risk of flooding.” B=6	(a) Observed globally averaged combined land and ocean surface temperature anomaly 1850–2012  “Sure, there’s some variation, but, in general, climate is getting warmer.” F=2
(c) Change in global average upper ocean heat content  “The oceans are getting warmer.” C=5	Decadal average  “On average, the 1980s were warmer than the 1970s, the 1990s were warmer than the 1980s, and the 2000s were warmer than the 1990s.” G=1
(b) Arctic summer sea ice extent  There is about half the amount of ice near the North Pole than there used to be.” D=4	Graphs from “IPCC (2013) Climate Change 2013: The Physical Science Basis,” Working Group I Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, Summary for Policy-makers, October 2013. Download the report at: http://www.ipcc.ch/ Note: Letters correspond to graphs. Numbers correspond to statements. Statements with numbers higher than 7, whether true or not, do not match any of the graphs in this activity.



A

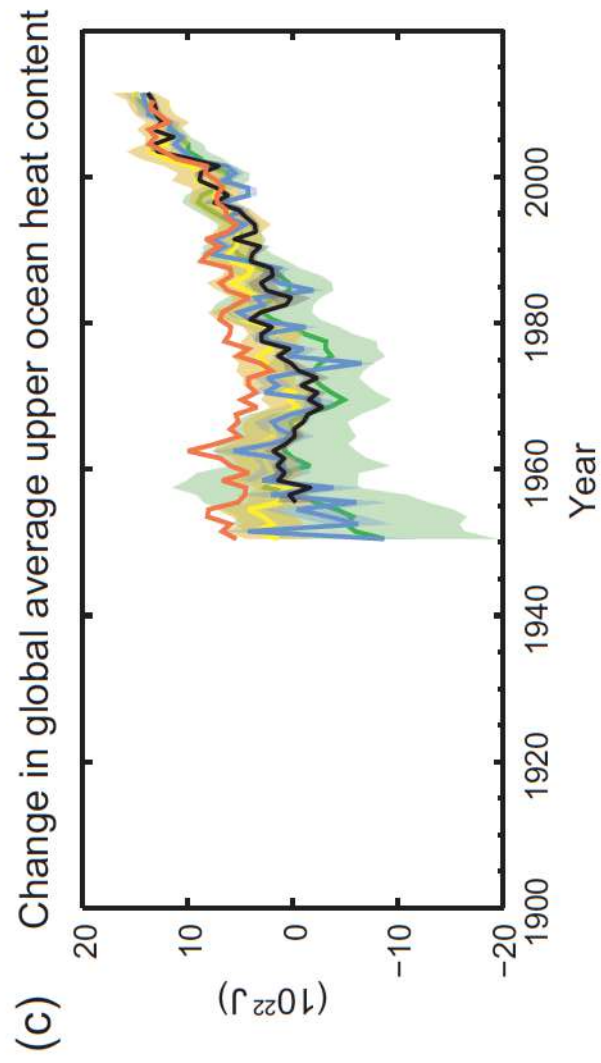
“There’s more CO₂ in the atmosphere now than there used to be. CO₂ is carbon dioxide and it causes the air to hold heat.”



B

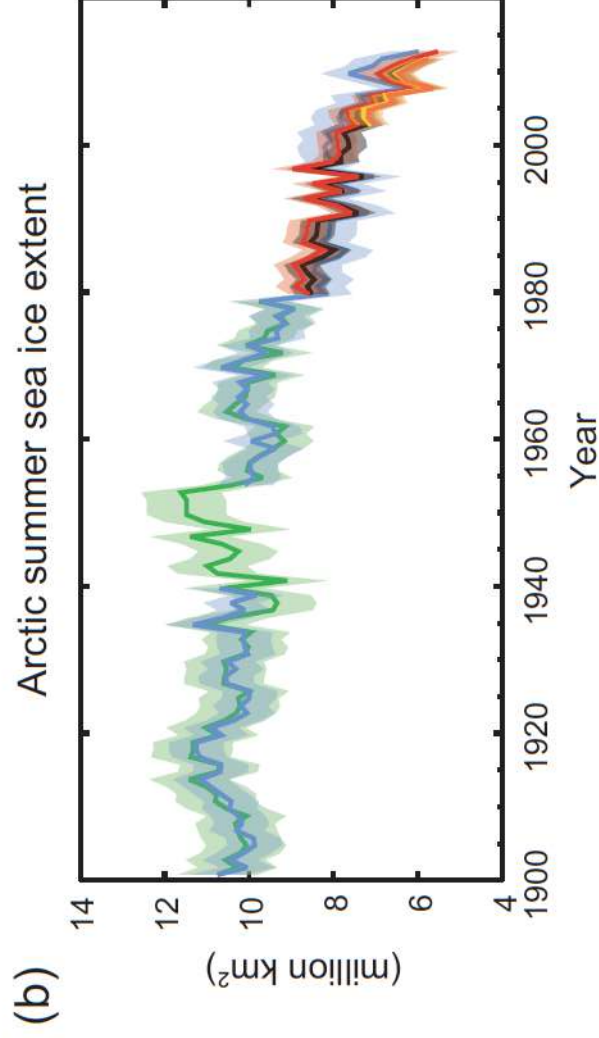
“Sea level is going up as climate warms. This makes towns and cities near the ocean at risk of flooding.”

6



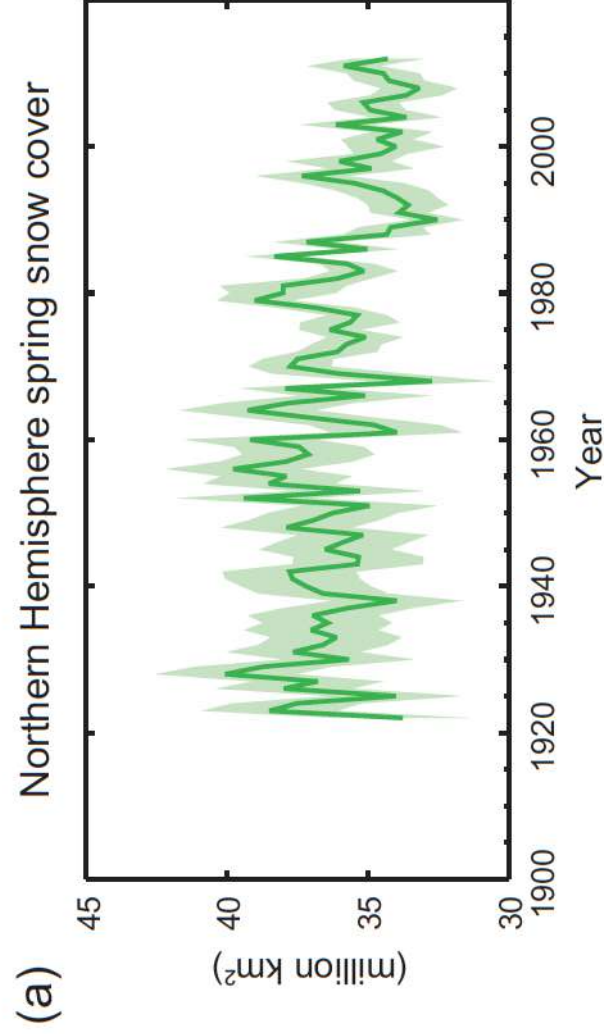
C

“The oceans are getting warmer.”



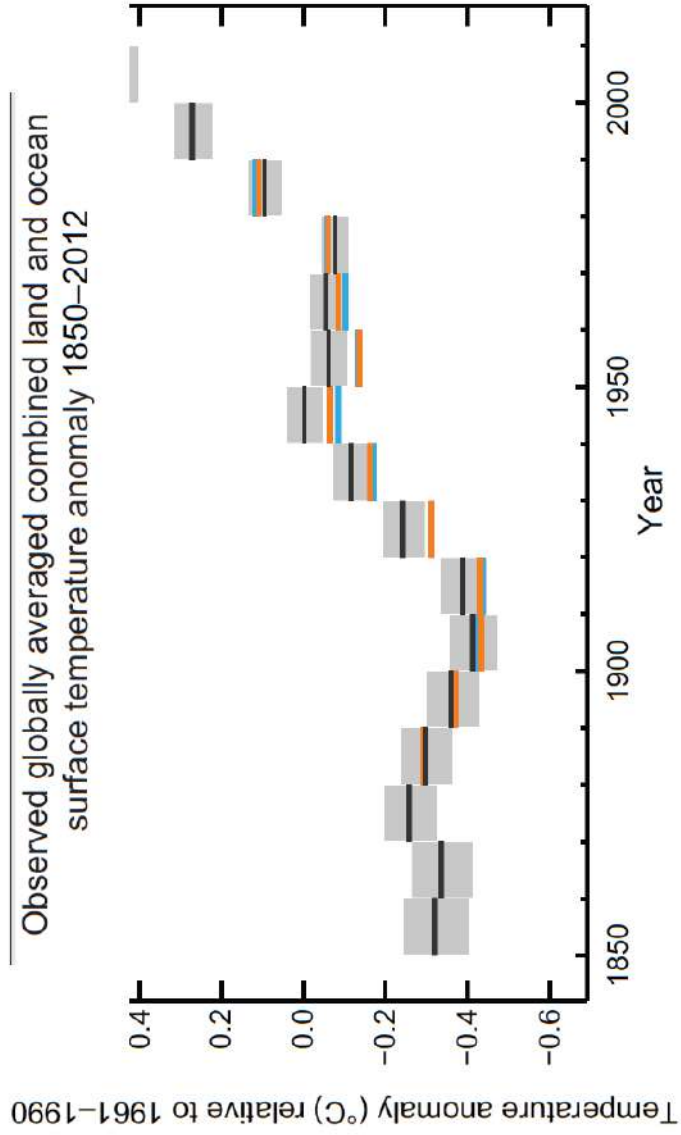
D

**There is about half the
amount of ice near the North
Pole than there used to be.”**

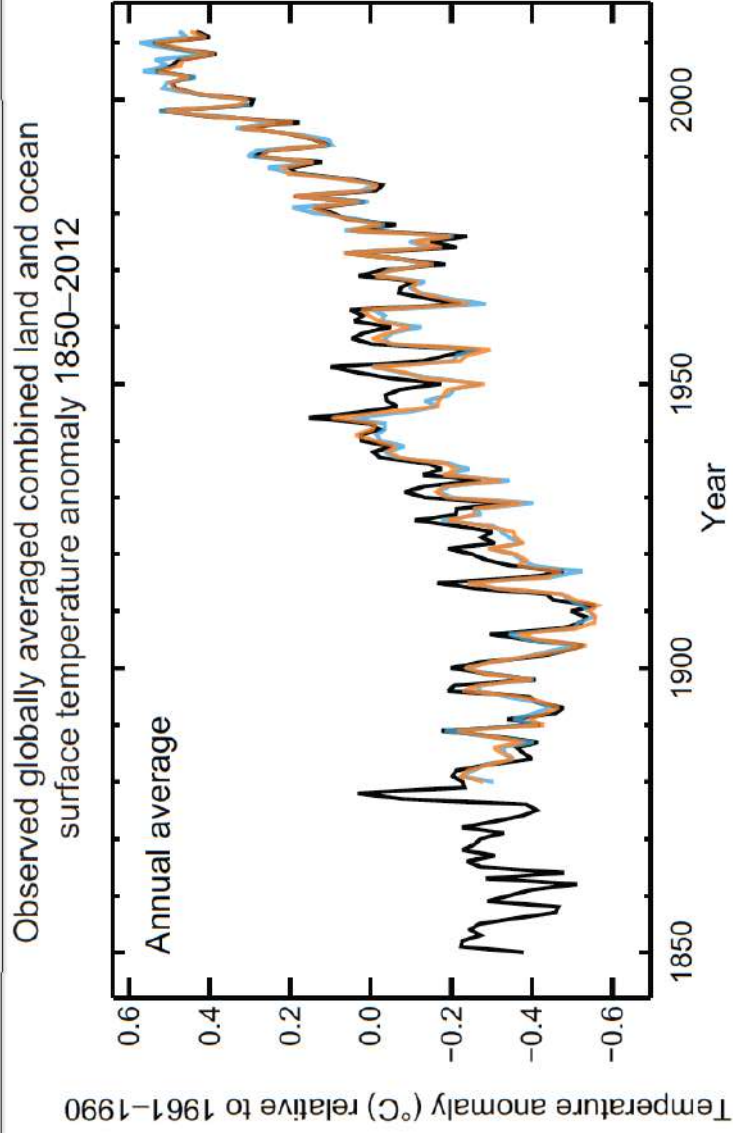


E

**“My grandmother says that
winters are less snowy now
than they were when she
was a kid in the 1950s.”**



G



F

**“Sure, there’s some variation,
but, in general, climate is
getting warmer.”**

**“On average, the 1980s were
warmer than the 1970s, the
1990s were warmer than the
1980s, and the 2000s were
warmer than the 1990s.”**

**“Climate varies so much year to year
that you can’t see a trend over time.”**

**“On average, the 1980s were cooler
than the 1970s, the 1990s were
cooler than the 1980s, and the 2000s
were cooler than the 1990s,”**

**“Since 1960 sea level has increased
nearly 100 meters.”**

10

**“There is twice as much carbon
dioxide in the atmosphere than there
was in 1960.”**

11

“In the northern hemisphere, there’s more snow in January and February than there is during spring.”

12

“The upper ocean grows warmer over time while the deep ocean grows colder over time.”

13

**“Each year, sea ice in the Arctic
grows larger during the winter and
melts during the summer.”**