Warming World

[intro sentence]



Screen 1: How is temperature changing? Global temperatures have been rising since 1901.

INTRO TEXT TK

resting screen

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below graph

Temperature difference from 100-year regional average: [YEAR]

graph callouts

1910-1940: Some warming from both human CO₂ emissions and natural factors.

~1940: Warming trend peaks, slight cooling begins.

1940s-1975: Aerosols from pollution and volcanic eruptions cool planet slightly.

1975: Warming starts to accelerate, driven by human CO₂ emissions.

1979: Rate of warming increases to 0.3°C (0.5°F) per decade.

1993-2010: Sea level rise accelerates to 30 millimeters (1.10 inches) per decade, doubling 1901-1990 mean.¹

1998: Strong El Niño event boosts warming from greenhouse gases, breaking 118 years of heat records.

¹ Hay et al. 2015, *Nature* **517**, pp. 481-484, <u>link</u>

2003: Historic heat wave in Europe kills 70,000 people.²

2005: Average temperature breaks the 1998 record.

2012: Lowest recorded Arctic sea ice extent in satellite

record.

2016: Hottest year on record.

2017: Third hottest year on record.

10 hottest years on record (starred?)

RANK 1 = WARMEST PERIOD OF RECORD: 1880–2017	YEAR	ANOMALY°C	ANOMALY °F
1	2016	0.94	1.69
2	2015	0.90	1.62
3	2017	0.84	1.51
4	2014	0.74	1.33
5	2010	0.70	1.26
6	2013	0.67	1.21
7	2005	0.66	1.19
8	2009	0.64	1.15
9	1998	0.63	1.13
10	2012	0.62	1.12

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graph ID and credit

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² Robine et al. 2008, *Comptes Rendus Bio.*, **331**.2