

High Energy Physics

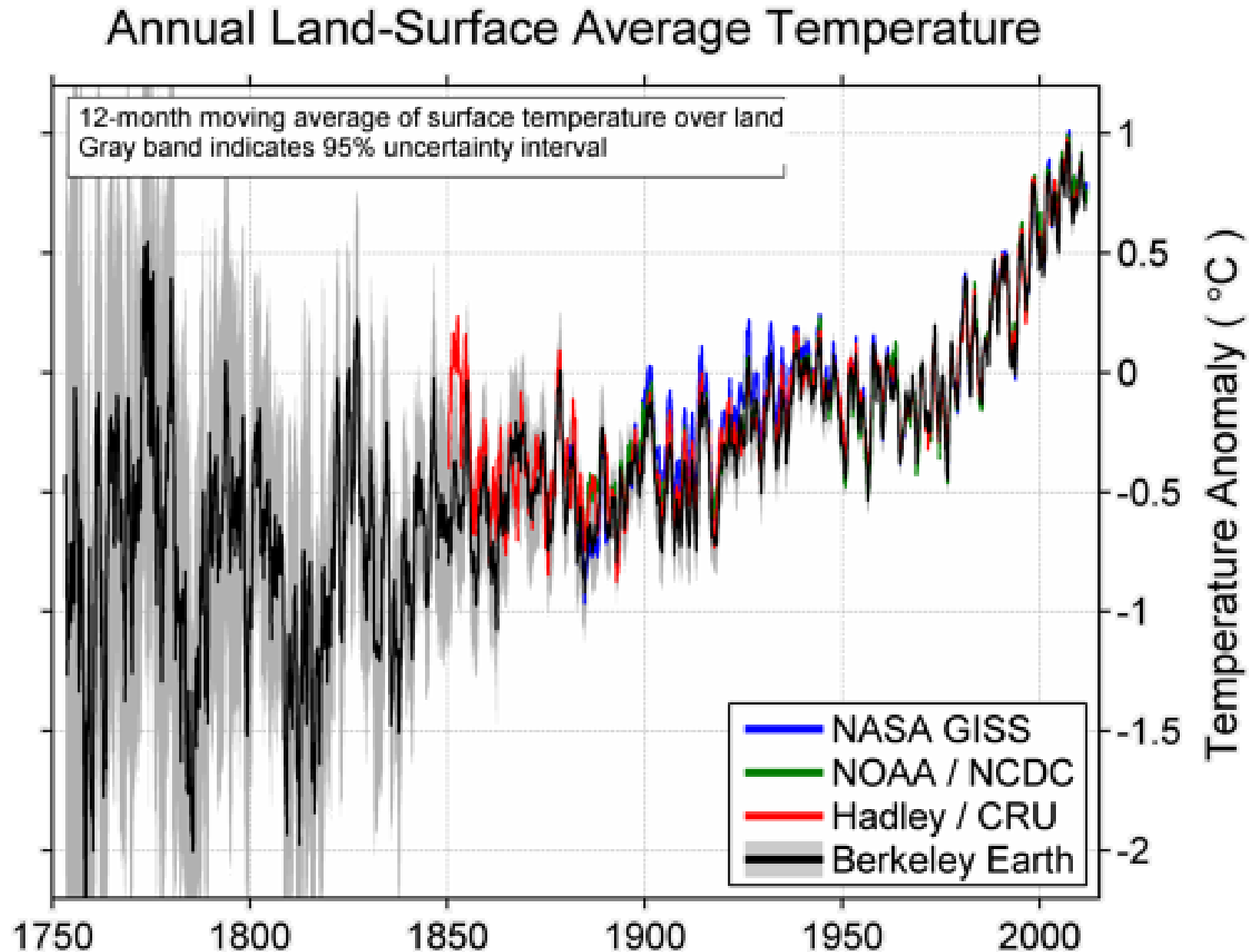
Advisory Panel

August 27, 2012

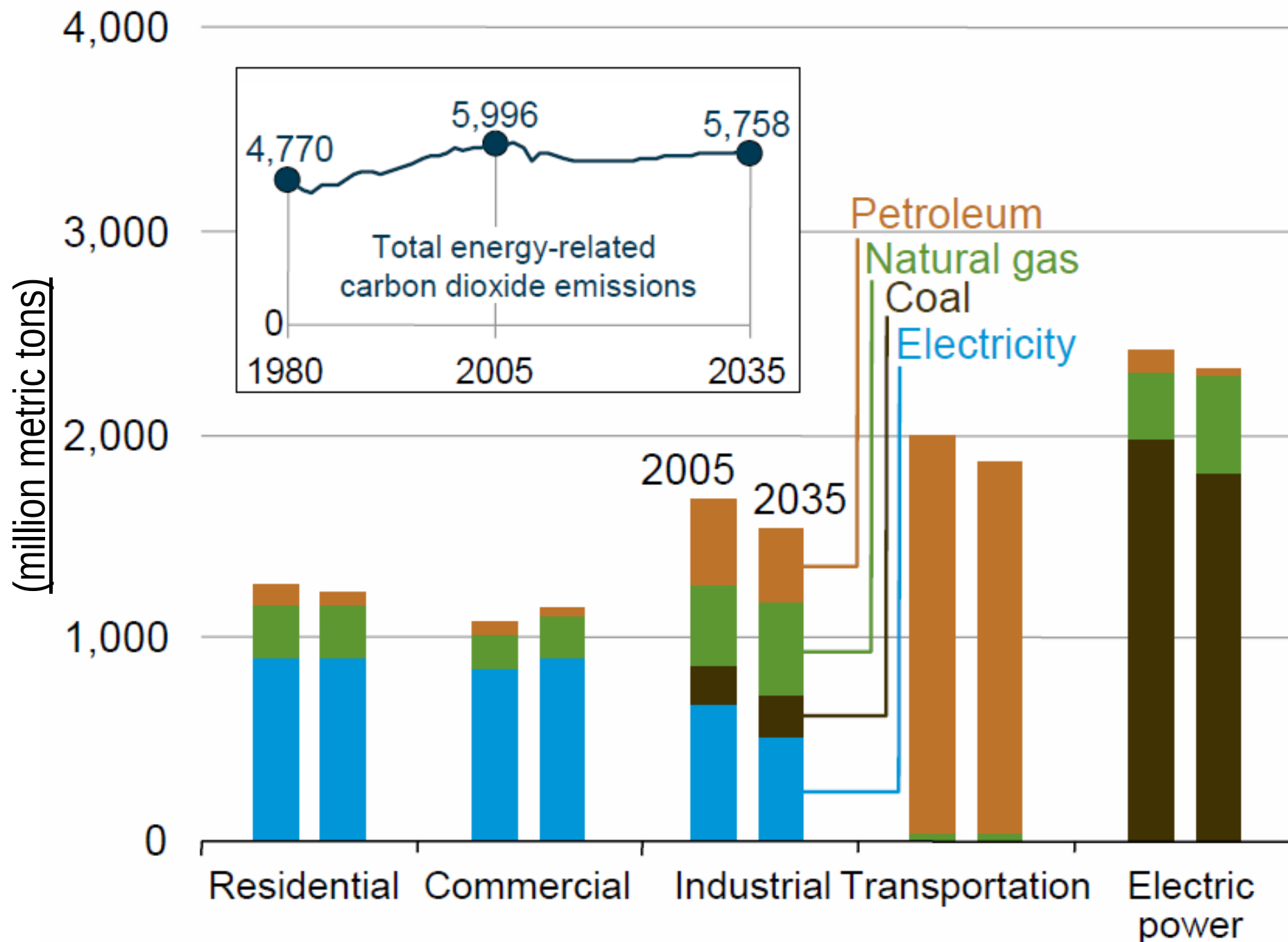
Dr. William Brinkman
Director, Office of Science
US Department of Energy

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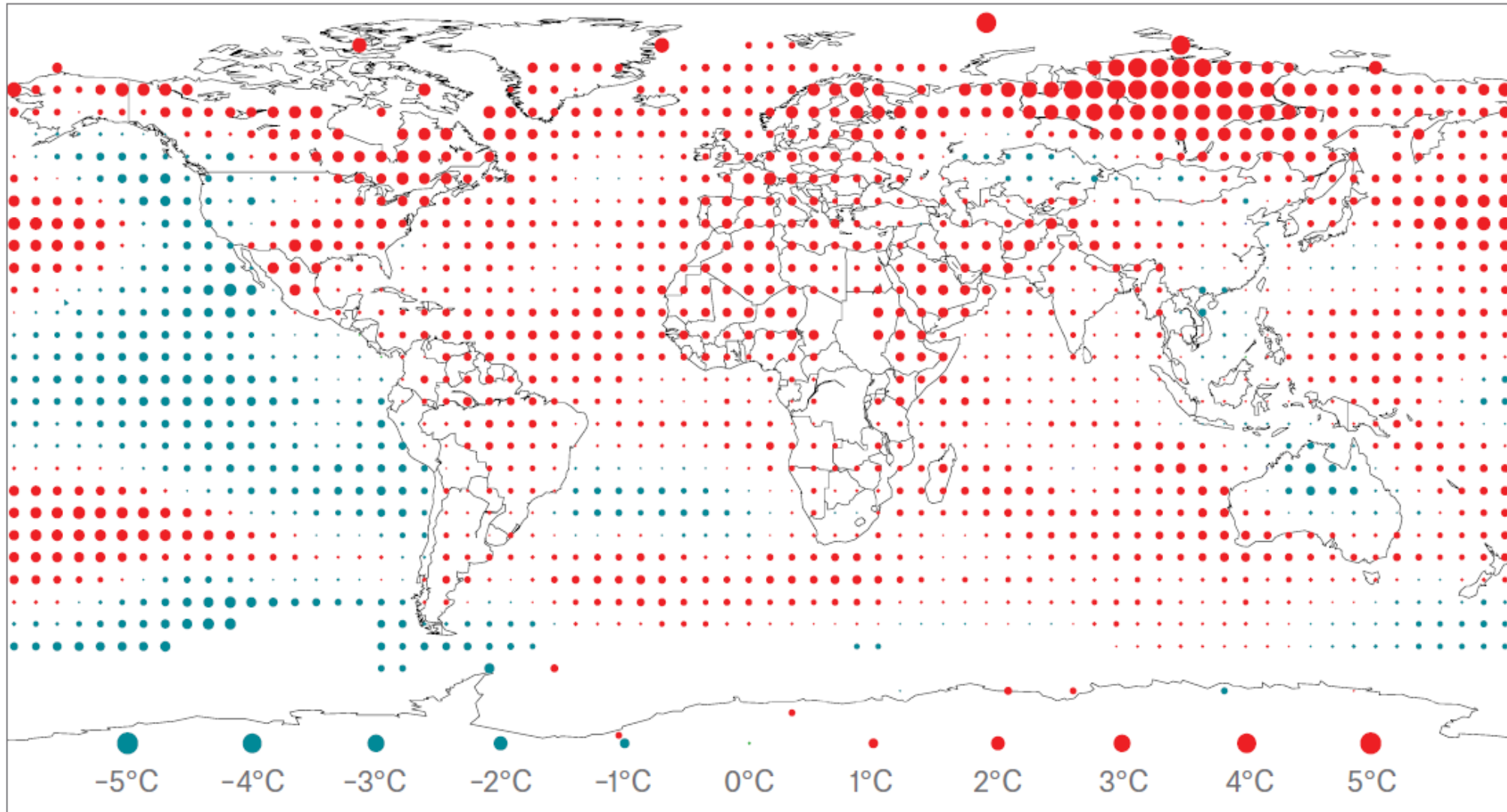
Global Average Temperature Increases with CO₂



US energy-related CO2 emissions by sector and fuel, 2005 and 2035

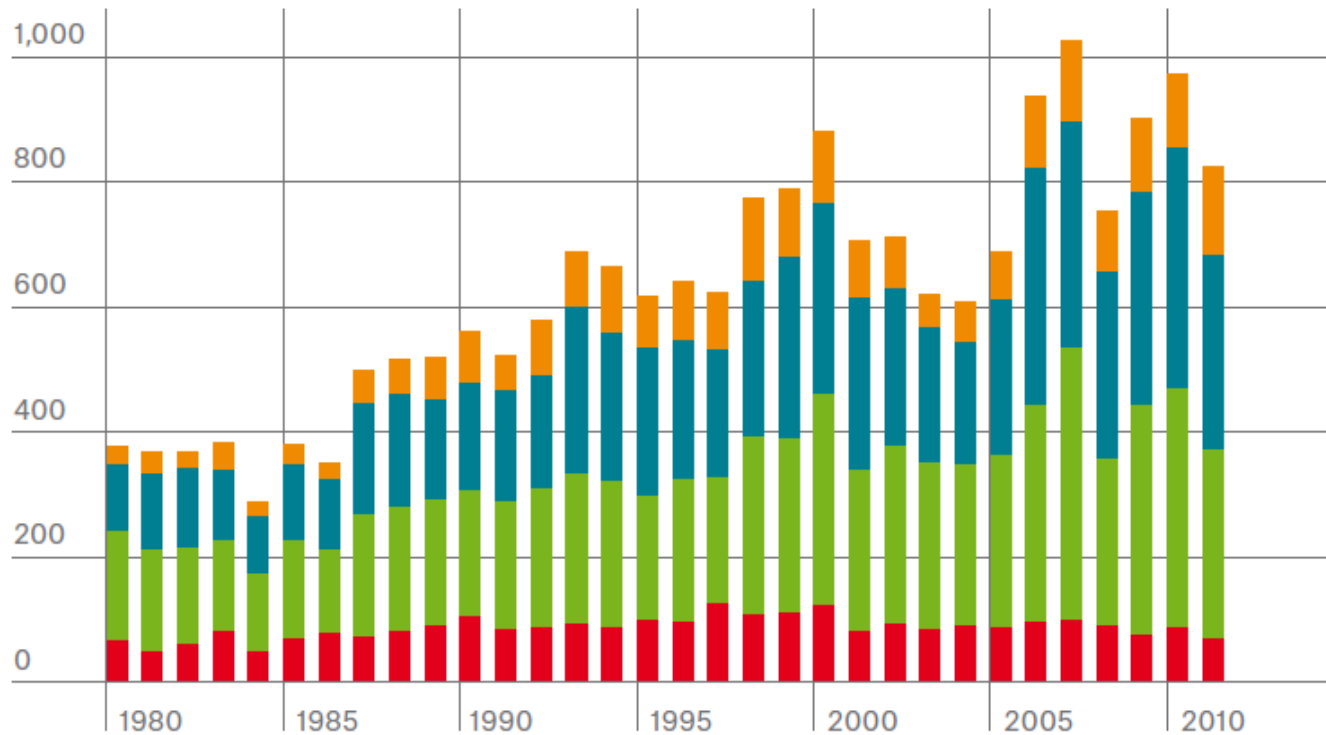


Regional mean annual temperature anomalies for 2011 with respect to a 1971-2000 base period



Number of Natural Catastrophes 1980-2011

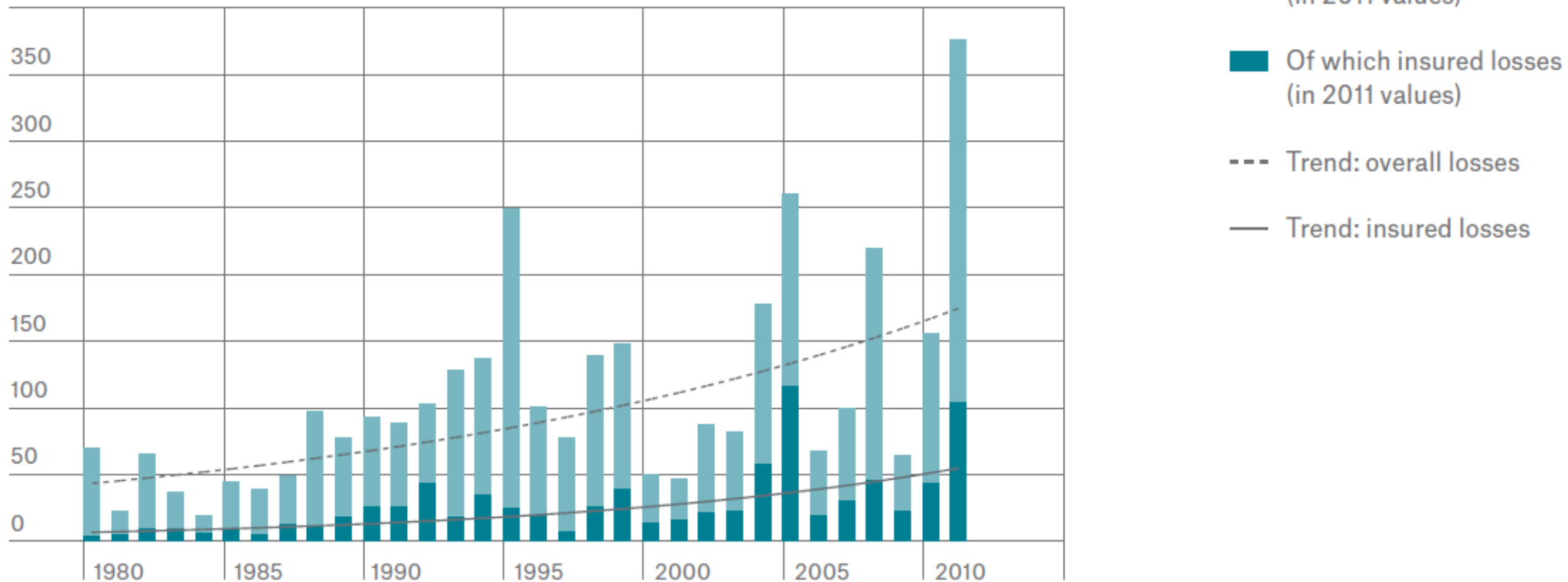
Number of natural catastrophes 1980-2011



- Geophysical events: Earthquake, volcanic eruption
- Meteorological events: Tropical storm, winter storm, severe weather, hail, tornado, local storm
- Hydrological events: Storm surge, river flood, flash flood, mass movement (landslide)
- Climatological events: Heat-wave, cold wave, wildfire, drought

Overall Losses and Insured Losses 1980-2011 (\$ billion)

Overall losses and insured losses 1980-2011 (US\$ bn)



Tesla – 300 miles per charge car



The Tesla Is One Hot Car

Four models

40 kWh	60 kWh	85kWh	85 kWh	
			performance	
160mi	230 mi	300 mi	300 mi	
6.5 sec	5.9 sec	5.6 sec	4.4sec	zero to sixty
110 mph	120mph	125mph	130mph	

Recharges at 62 miles per hour-has a supercharger

Hybrid Sales 1999-2012 (per cent)

