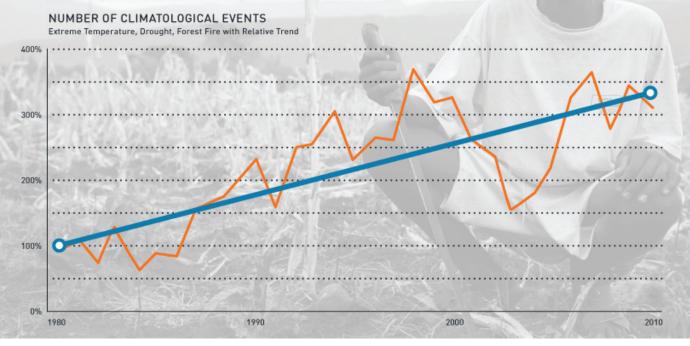


## **EAST AFRICA**

In 2011, crippling drought gripped the Horn of Africa with two consecutive seasons of poor rainfall that contributed to one of the driest years since 1950-51.



Beyond the debate on climate change's role in the current crisis in East Africa, one thing is clear. If nothing is done, climate change will,in the future,make a bad situation worse.



## **EXAMPLES:**

- Each new year sees far more new records for hot days than cold. Last summer, the U.S. had 11 times as many communities with record hot days as record cold days.<sup>2</sup>
- The Amazon just came through its second 'hundred-year drought in five years,'3 a record drought in Texas killed half a billion trees,<sup>4</sup> and stream flows in the world's largest rivers are declining fast.<sup>5</sup>
- In the summer of 2010, Russia had the greatest heatwave in its history.<sup>6</sup> The subsequent drought was so severe that the Kremlin stopped exporting grain to the rest of the world, causing the price of corn and wheat to rise by 85% overnight.<sup>7</sup>

## **WHAT'S IN STORE**

Scientists at Stanford and the University of Washington calculate that each 1°C increase in global average temperature will reduce grain yields by 10%, and "mega-heatwaves" like the ones that struck Europe in 2003 and 2010 will become 5–10 times more likely over the next 40 years. 10

- 1) thinkprogress.org/romm/2010/10/18/206876/noaa-2010-hottest-year-on-record-zambia-national-all-time-record/
- 2) thinkprogress.org/romm/2010/10/18/206876/noaa-2010-hottestyear-on-record-zambia-national-all-time-record/
- 3) nature.com/news/2010/101029/full/news.2010.571.html
- 4) reuters.com/article/2012/02/16/us-drought-trees-texas-idUSTRE81F02W20120216
- 5) www2.ucar.edu/atmosnews/news/854/water-levels-dropping-some-major-rivers-global-climate-changes
- 6) guardian.co.uk/environment/2012/feb/21/climate-changerussian-heatwave, columbia.edu/~jeh1/mailings/2012/ 20120105\_PerceptionsAndDice.pdf
- 7) http://www.time.com/time/world/article/0,8599,2008081,00.html
- 8) http://www.telegraph.co.uk/earth/environment/climatechange/8918605/ Climate-change-could-push-up-food-prices.html
- 9) http://www.sciencemag.org/content/323/5911/240.short
- 10) http://www.guardian.co.uk/environment/2011/mar/17/deadly-heatwaves-europe "Long-term effects of heat wave for Russia" http://en.rian.ru/images/16027/39/160273983.jpg

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As atmospheric  ${\rm CO_2}$  traps more and more heat from the sun, heat waves are already becoming harsher, longer, and more frequent. And since water evaporates faster at higher temperatures, it means droughts are becoming harsher, longer, and more frequent too.



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