Information graphics and data visualization for Disaster Risk Management

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Rafael Höhr (Prodigioso Volcán)

January 2020
Florence
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- We are aussies (Excercise)
- Inspirational (Examples)
- Engagement and comprehension
- Disaster risk dashboards and contextualization
- Misleading graphics
- Online Tools
January 2020

We are aussies

exercise
January 2020

Inspirational
Australia has warmed overall by slightly more than 1°C since 1910, with most of the heating occurring since 1960, the Bureau of Meteorology says.

**Australia has been getting warmer**

Annual mean temperature above or below average (°C)

![Graph showing temperature changes](image)

*Note: Average is calculated from 1911–1960 data.*

Source: Australian Government Bureau of Meteorology

**Hottest day on record**

Australia broke its all-time temperature record twice last week. An average maximum of 40.9°C was recorded on 17 December, broken a day later by 41.3°C, both beating 2013’s record of 40.2°C.

**Mean maximum temperature, 19 Dec**

![Map showing temperature distribution](image)

The main climate driver behind the heat has been a positive Indian Ocean Dipole (IOD) - an event where sea surface temperatures are warmer in the western half of the ocean and cooler in the east.

The difference between the two temperatures is currently the strongest in 60 years.

**A positive Indian Ocean Dipole means a wetter west and drier east**

![Map showing temperature differences](image)

*Note: Average temperatures measured over 25 year period (1986-2012).*

Source: Australian Bureau of Meteorology

**Australia’s worst fires**

- **2009** (Black Saturday, Victoria - 173 deaths)
- **2018** (60 deaths)
- **1996** (Black Tuesday, Tasmania - 47 deaths)
- **1990** (Eastern Victoria - 61 deaths)
- **1987** (South Australia & Victoria - 79 deaths)
- **1977** (Tasmania & South Australia - 35 deaths)
- **1965** (Tasmania - 12 deaths)
- **1957** (Black Tuesday, Tasmania - 52 deaths)
- **1955** (Victoria - 34 deaths)
- **1954** (Victoria - 27 deaths)
- **1953** (Victoria - 19 deaths)
- **1952** (9 deaths)
- **1949** (Western Victoria - 4 deaths)
- **1946** (Victoria - 2 deaths)
- **1926** (Victoria - 13 deaths)
- **1918** (south east Victoria - 60 deaths)

Source: Risk Profilers

Australia’s deadliest bushfire disaster was “Black Saturday” in February 2009, when some 173 people died in Victoria.
New South Wales sees worst fire season in years

High winds and hot, dry conditions—it was the hottest and driest year on record in 2019—have made some of the blazes nearly impossible to contain. Winds can help fires grow so large that they’re capable of spawning fire tornadoses that spew embers dozens of kilometers away—sparking new fires.

**Hottest and driest**

<table>
<thead>
<tr>
<th>Annual mean temperature anomaly, 1910–2019</th>
<th>Annual rainfall anomaly, 1900–2019</th>
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</thead>
<tbody>
<tr>
<td>2019 is the <strong>hottest year</strong> ever recorded in Australia...</td>
<td>2019 coincidentally it is also the <strong>driest year</strong></td>
</tr>
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</table>

Source: Australian Government Bureau of Meteorology

Source: New South Wales Rural Fire Service, NASA, USGS
Last year, drought cut Australia's output to the lowest level in a decade. This season has got off to an even worse start, with farmers planting in some of the driest soil in years.

Australia's official forecaster has trimmed its estimate of this year's wheat crop to 21.9 million tonnes, but warned yields would fall further without rain. Some private forecasters say the crop could be as low as 13 million tonnes, which would be the lowest since the drought-stricken 2008 harvest.
A neighborhood in northern Santa Rosa (Google Earth and California Highway Patrol)

The Tubbs fire, the largest blaze in Sonoma County, started late Sunday night in Calistoga before spreading to Santa Rosa according to a Cal Fire official. It’s estimated the fire has burned 27,000 acres.

How these fires got so bad

Winds then crest over the ridge and sink. As the air moves along the downslope, it is compressed by the change in pressure, causing the wind to become faster, hotter and dryer making conditions for wildfires worse.

A satellite view of smoke from the wildfires in Northern California. High winds fueled the fires, which spread quickly.

A second fire—the Atlas Fire—started off Atlas Peak Road before burning southwest to just outside of the city of Napa, according to Cal Fire, which confirmed two deaths in the blaze and Napa County. The fast-moving fire is also estimated to have destroyed 25,000 acres.

Millions of acres burned in the U.S. each year from Jan. 1 to Oct. 6

A bar chart showing the number of acres burned each year from 2007 to 2017.
How Much Hotter Is Your Hometown Than When You Were Born?

As the world warms because of human-induced climate change, most of us can expect to see more days when temperatures hit 92 degrees Celsius (90 degrees Fahrenheit) or higher. See how your hometown has changed so far and how much hotter it may get.
Berliner Morgenpost

Grenze zu Mexico

Trumps Mauerpläne im Größenvergleich

US-Präsident Donald Trump plant eine Betonmauer an der Grenze zu Mexico. Verschieben Sie den Grenzverlauf auf der Karte und übertragen Sie die Dimensionen auf eine beliebige Region.
Total area burned in NSW, QLD, SA, VIC and WA
At least **10.7m hectares has been burned** in all states and territories excluding the NT since the start of the 2019 fire season, with 4.9m of this in NSW
January 2020

Graphics for comprehension and engagement
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Infographics and DataViz for evidence-driven decision making: a hands-on approach

Key event contextualized

GERMANY
1,029,852

SPAIN
414,746

UK
588,993

ITALY
300,823
January 2020
Disaster risk graphics and dashboards
Australia wildfires
Copernicus

Graphics and Data Visualizations for Disaster Risk Management

Joint Research Centre (JRC) - January 2020
Earthquakes
Tsunamis

[Map image with detailed visualizations of tsunami events, plate boundaries, and other relevant data.]
Australia wildfires
Earthquakes

Emergency Response Coordination Centre (ERCC) – DG ECHO Daily Map | 17/12/2019
Philippines | 6.8M Earthquake of 15 December

Population exposure to earthquake intensity

<table>
<thead>
<tr>
<th>Level</th>
<th>Population</th>
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<tr>
<td>V</td>
<td>530,000</td>
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<tr>
<td>VI</td>
<td>3.6 Million</td>
</tr>
<tr>
<td>VII</td>
<td>4.6 Million</td>
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Source: GDACS

6.8M Earthquake
- Depth: 22 km
- 15 Dec 2019
- 6:11 UTC (14:11 local time)

Impact Overview

- 9 Fatalities
- 99 Injured people
- 1 Missing person
- 32,124 Displaced people

Source: NDRRMC

Earthquakes
- Last significant earthquake
- Aftershocks between 4.6M and 5.7M
- Focal mechanism

Source: USGS

Modified Mercalli Scale
- Shake map event: 6.8M
- Source: USGS
- VII: Very strong shaking
- VI: Strong shaking
- V: Moderate shaking

Active Faults
- Source: Philippine Institute of Volcanology and Seismology
- Built-up
- Main airport
- Main port
- Province border

Seismic Sequence
- From 9 July to 17 December

10-day Precipitation Forecast
- Source: JRC GIS/AS-ECMWF
- 10-25 mm
- 15-20 mm
- 20-25 mm
- 25-50 mm
- 50-100 mm
- 100-150 mm
- 150-200 mm
- > 200 mm

© European Union, 2019. Map produced by the JRC. The boundaries and the names shown on this map do not imply official endorsement or acceptance by the European Union.
Earthquakes
Forest

Graphics and Data Visualizations for Disaster Risk Management

January 2020

Joint Research Centre (JRC)
Environment

**Global Carbon Emissions**

Billion tonnes CO2 per year

- United Nations "Earth Summit" in Rio
- Kyoto protocol
- Paris agreement

**The environment:** extreme sea level events to become more frequent

Locations where once-a-century extreme sea level events are projected to occur at least annually by 2050, even if the world drastically cuts emissions

- Sea level rise, 1992-2019 (mm per year)
  - Decrease
  - Increase

**One metre**

- Sea level rise by 2100 if global warming exceeds 3°C
- 20%–90% Projected loss of coastal wetlands by 2100
- 90% Projected loss of warm water coral reefs, even if global warming is limited to 1.5°C

Cartography: Chris Campbell
Sources: NOAA/Laboratory for Satellite Altimetry; IPCC
© FT
Earthquakes

Strongest in recent history
It was the strongest quake to hit Lombok or Bali on USGS records that date back to 1963. Lombok was already reeling from a 6.4 magnitude quake on July 29 that killed 17 people and injured hundreds.

Earthquake magnitudes are based on a logarithmic scale measuring the amplitude of ground motion. Each whole number increase in magnitude means ten times the level of ground shaking. This chart shows quakes in Bali and Lombok that have registered magnitude 5 and above.

The Ring of Fire
Indonesia lies in the seismically active "Pacific Ring of Fire". Around 90 percent of the world's earthquakes occur within this region, a 40,000-kilometre arc of volcanoes and oceanic trenches that partly encircles the Pacific Ocean.

Sources: U.S. Geological Survey (USGS); National Oceanic and Atmospheric Administration (NOAA); Planet Labs; United Nations Operational Satellite Applications Programme (UNOSAT); United Nations Institute for Training and Research (UNITAR); Maps4News; Reuters
By Simon Scarr, Jin Wu and Gurman Bhatia | REUTERS GRAPHICS
Contextualization. Edited graphic

Australia's official forecaster has trimmed its estimate of this year's wheat crop to 21.9 million tonnes, but warned yields would fall further without rain. Some private forecasters say the crop could be as low as 13 million tonnes, which would be the lowest since the drought-stricken 2008 harvest.
Contextualization. Edited graphic
Renewable energy accounts for a large share of energy consumption in Sub-Saharan Africa, but that often reflects burning of biomass in traditional ways in open fires.

Renewable energy consumption, 2015 (% of total final energy consumption)

Unlike modern renewables, traditional uses of biomass are not clean: more than 4 million people die prematurely from illnesses caused by household air pollution from cooking with such fuels (WHO).

Modern renewables still make a modest contribution across all income groups.

Global total final energy consumption, by income group and source, 2015 (% of income group total)

The share of modern renewables is relatively similar across income groups, about 10 percent, and growing, except in lower-middle-income countries.

But the share of modern renewables has been growing.

Modern renewable energy consumption (% of total final energy consumption)

January 2020

Misleading graphics
Misleading graphics
Earthquakes

**Figure 1.** Two techniques for representing the uncertainty in hurricane path forecasts: Cone of uncertainty (left) vs. ensemble visualization (right).

*Source: Padilla, Ruginski, and Creem-Regehr 2017. Licensed under Creative Commons Attribution 4.0 International License (http://creativecommons.org/licenses/by/4.0/).*
Hurricane Irma forecast
Issued at 11 a.m. Sept. 7, 2017
Three days before U.S. landfall

Forecast cone
Forecast track
Forecast intervals

Storm location
Actual track
Infographics and DataViz for evidence-driven decision making: a hands-on approach
Infographics and DataViz for evidence-driven decision making: a hands-on approach
### Infographics and DataViz for evidence-driven decision making: a hands-on approach

#### Election Map

- **Clinton**
  - **Electoral Votes**: 218
  - **Popular Vote**: 59.16M (47.8%)

- **Trump**
  - **Electoral Votes**: 276
  - **Popular Vote**: 59.03M (47.3%)

#### Voter Percentage Breakdown

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<th>Candidate</th>
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<td>Clinton</td>
<td>48.5%</td>
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Map showing the distribution of electoral votes across the United States.
There Are Many Ways to Map Election Results. We’ve Tried Most of Them.

By ALICIA PARLAPIANO  UPDATED November 1, 2016

A Detailed Political Geography of the U.S.

And What It Means for 2016

What Donald Trump Sees in This Map

What Hillary Clinton Sees in This Map

What We Know Now
Number of people who drowned by falling into a pool correlates with
Films Nicolas Cage appeared in
Correlation: 66.6% (r=0.666004)
WHERE AND WHEN. Guernica painting travel, Brexit, Paris terrorist attack.

Todos los viajes del ‘Guernica’
En 79 años, el cuadro de Picasso ha visitado 11 países y participado en 40 exposiciones, hasta llegar al Museo Reina Sofía en 1981.

Londres, 1939
Whitney Art Gallery
Exhibición en varias naciones de Inglaterra (octubre de 1938 – febrero de 1939)

A bordo del tren del ‘Brexit’
La periodista de El PAÍS María B. Salasquillo ha recorrido en una jornada la ruta férrea más larga de Reino Unido (2.244 kilómetros, 773 millas) para tomar el pulso de los británicos sobre el referéndum en el que el jueves 23 decidirán si permanecen en la UE o la abandonan. Un recorrido a través de reportajes, fotografías, videos y entrevistas.

Intercambio de disparos
Los terroristas atentaron a agentes policiacos con una escalera del hotel de la Policía de Francia Hauser Hotel

Made with STORYMAP JS, CARTO, ODISSEY
NEW WAY OF EDITING CAPTIONS: Google Spreadsheets, Excel.
Cronología de 50 años de conflicto

El presidente estadounidense consolida un complejo proceso que comenzó en diciembre de 2014. Repasamos las imágenes

Mayo de 1995

55 años de conflicto entre Estados Unidos y Cuba

En 1959 triunfa la revolución cubana. Al año siguiente EEUU impone un embargo total a la isla. Estos son los principales momentos en la historia de las relaciones diplomáticas entre las dos potencias desde ese momento. Foto: BURT GILLES (MAGNUM PHOTOS / CONTACTO)
CHARTS. Basic graphics and maps.


All readings of Greenland's surface melt extent in square kilometers, between April 1st, 1979 and June 18th, 2019, as collected by the National Snow and Ice Data Center.

Degrees of Global Warming

"Hot-house Earth": warming incompatible with human civilization, most of the planet becomes uninhabitable, possible population reduction to one billion.

Deadly heatwaves every summer, hundreds of drowned cities, devastation of the majority of eco-systems, more tipping points are crossed, leading to intensified warming.

High risk of reversing carbon cycle triggering runaway warming spiral. Droughts and famine for billions of people, leading to chaos and wars.

Some summers so hot that stepping outside could be lethal. High risk of food shortages.

More extreme heatwaves, more floods, more droughts.

Likely tropical crop yield decline and food supply instabilities.

Increased intensity and frequency of extreme weather events.

The solid line shows 5-year average of global land and ocean temperature anomalies (NOAA). Dotted lines show different percentiles of warming predictions according to Raftery et al., 2017. Inspired by The Guardian.

Chart: Gregor Aisch, Datawrapper • Get the data • Created with Datawrapper
CHARTS. Basic graphics and maps.

Global Temperature Anomaly - Seasonal Cycle

In less than 12 hours, the Camp fire in California has burned nearly 55,000 acres

Based on Gregor Aisch • Source: NASA/GISS/GISTEMP • Get the data • Created with Datawrapper

Made with DATAWRAPPER
NETWORKS. TRUMP Company composition.
Graphics and Data Visualizations for Disaster Risk Management

Joint Research Centre (JRC) . January 2020

La Galaxia Google

NETWORKS. ALPHABET / GOOGLE Composition
COMBINATION narratives.
Graphics and Data Visualizations for Disaster Risk Management

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STORIES

Así es el entramado de empresas de Donald Trump
El magnate estadounidense ha dejado la gestión de su emporio en manos de sus hijas

La organización Trump

La lista de empresas, acuerdos comerciales, valor en bolsa, préstamos de realizaciones bancarias, los cargos que mantiene en el Consejo de Ministros de los Estados Unidos. Para evitar problemas el día a día, Trump ha delegado en sus hijas el control de estas empresas, con excepción de Donald Jr. y Eric Trump. La política que desarrollarán es segura, con respeto, en un sector que más de las veces han escogido empresas inmobiliarias, hasta hoy, resalta con campos de golf y su venta en sociedad con otros intereses comerciales del futuro presidente y el del país que dirige.

Otros ingresos
Declarados en julio de 2013:

Fondos y cartes de valores de Donald Trump

Trump ha invertido en sus cartes de valores en bolsa que incluye a las tendencias de las grandes empresas de EE.UU. Esta incertidumbre, habitual para otros empresarios, puede ser valiosa en el caso de los problemas de Trump porque, hasta el momento, no ha publicado sus declaraciones de bienes. Sin embargo, las declaraciones de los beneficiarios de la empresa publicadas son escasas y por las que se desconocen los beneficios que ha podido recibir de estas inversiones.

El pasado mes de octubre, su esposa había avisado al gobierno de que ha venido a los Estados Unidos en los últimos años, pero este no ha dejado el campo de conflictos abiertos. Las compañías que gestionan desde ahora sus hijos hacen el aporte de un conocido empresario estadounidense que resulta ser el presidente de esa época. Trump puede ser obligado a demostrar que cualquier medida que adopto su gobierno con consecuencias en el exterior, y que afecte a uno de los acuerdos de ámbito con empresas, es a su propio interés personalizado por el incumplimiento de las leyes de la seguridad o el económico del Estado de EE.UU.

Hipoecias y préstamos de Trump

Las personas de EE.UU. tienen prohibidos recibir regalos de gobiernos extranjeros que puedan ser interpretados como sobornos. Esta es la ley que más problemas puede ocasionar para Trump, pues pausa préstamos concedidos por bancos extranjeros como Deutsche Bank, al mayor del mundo de su empresa. Esta institución, además, registra en la actualidad con el Departamento de Justicia una sanción por no cumplir con la ley del pasado año. El fiscal general de Trump vendrá el encargado de resolver este caso, que puede llegar a ser un problema en la administración Obama.

Otro de sus préstamos internacionales en el Banco de China, según reveló The New York Times, la institución concedió un préstamo de 800 millones de dólares (cerca de 650 millones de euros) para realizar un proyecto a un grupo de empresarios, entre ellos un granapred de Trump, que realizó el 50% de sus bienes. La ley que revoluciona el campo de la corrupción en el mundo, que permite que los empresarios extranjeros, y Trump podría querer con la legislación a uno de sus empresas es destinataria de este tipo de préstamos mientras se utiliza la Casa Blanca.

Cargos que ocupaba Donald Trump

Declarados en julio de 2013