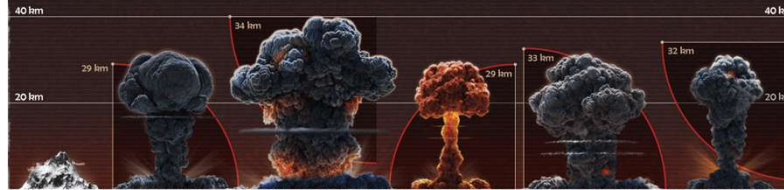


TOP 10 LARGEST NUCLEAR EXPLOSIONS

Since the first atomic bombs were dropped on Nagasaki and Hiroshima in 1945 during World War II, there have been over 2,000 nuclear tests around the world. Within 20 years, the United States and former Soviet Union tested nuclear weapons whose explosive power were at least 500 times greater.

We visually compare the top 10 largest nuclear explosions of all time.

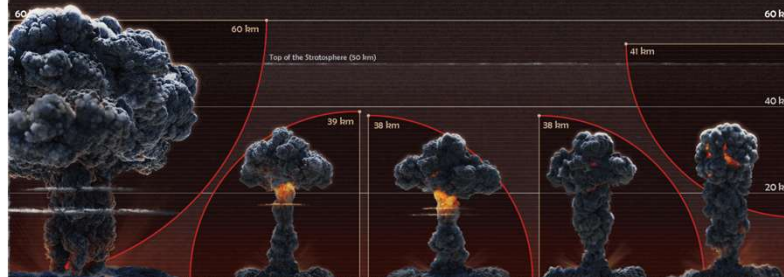
The following nuclear explosions are displayed chronologically. All of them were conducted in remote locations and not near civilian populations.



Mount Everest 8.8 km	Ivy Mike Johnston Atoll, 1952 10 400 kt	Castle Bravo Bikini Atoll, 1954 15 000 kt	Castle Romeo Bikini Atoll, 1954 11 000 kt	Castle Vambee Bikini Atoll, 1954 13 500 kt	Soviet Test #123 Subhoy Nos, 1961 12 500 kt
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The most powerful nuclear explosion came from hydrogen bomb, Ivy Mike was the very first.

The Bikini Atoll is a coral reef in the Pacific Marshall Islands. It is 10 times more radioactive than Chernobyl as a result of repetitive nuclear testing.



The Tear Bomb Subhoy Nos, 1961 50 000 kt	Soviet Test #177 Subhoy Nos, 1962 21 100 kt	Soviet Test #173 Subhoy Nos, 1962 19 100 kt	Soviet Test #174 Subhoy Nos, 1962 20 000 kt	Soviet Test #219 Subhoy Nos, 1962 24 200 kt
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The Tear Bomb is the largest nuclear explosion of all time. It completely obliterated an abandoned village 55 km away.



The Soviet Union's largest nuclear tests were conducted on Subhoy Nos, a region on the northern Russian archipelago called Novaya Zemlya.

There are no released photos or videos of this explosion. Despite being the second largest nuclear explosion of all time, its height and destructive radius are estimated.

SOURCES: "These Are the 12 Largest Nuclear Detonations in History." Business Insider, <https://www.businessinsider.com/largest-nuclear-tests>. "1962 Soviet Nuclear Tests." Wikipedia, 1 July 2020. https://en.wikipedia.org/wiki/1962_Soviet_nuclear_tests. Mushroom cloud size and destructive radii data are calculated from NUKEMAP by Alex Wallensten. (nuclearsecrecy.com/nukemap)



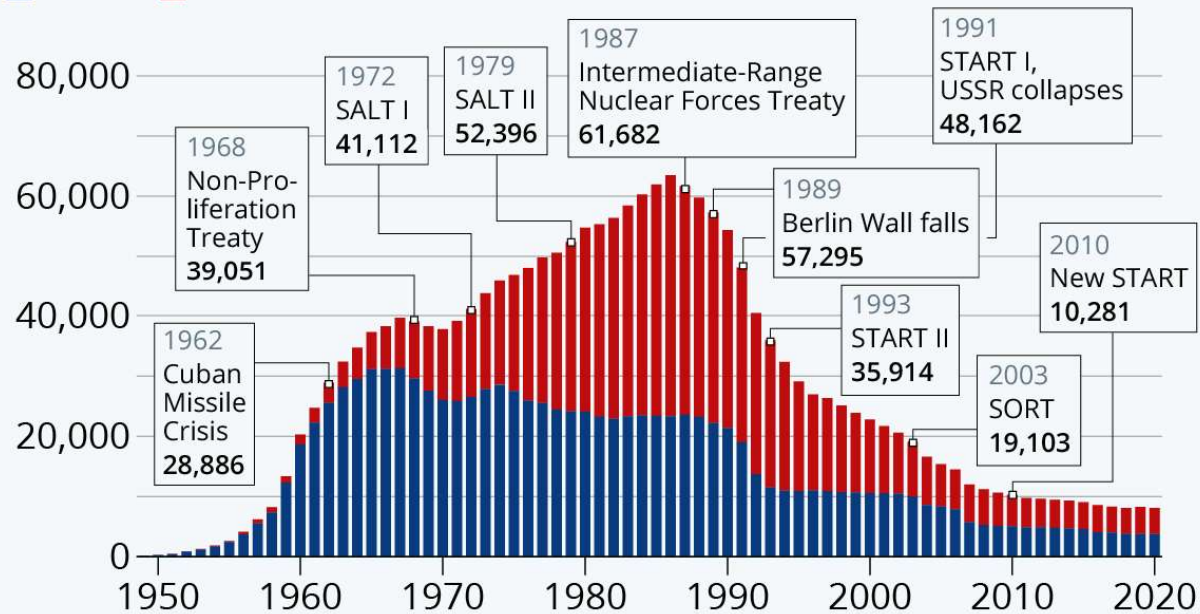
RESEARCH, WRITING AND DESIGN Mark Bolan

[/visualcapitalist](https://www.facebook.com/visualcapitalist) [@visualcap](https://www.instagram.com/visualcap) [visualcapitalist.com](https://www.youtube.com/channel/UC...)

How U.S. And Russian Nuclear Arsenals Evolved

Estimated stockpiled nuclear warhead count by year*

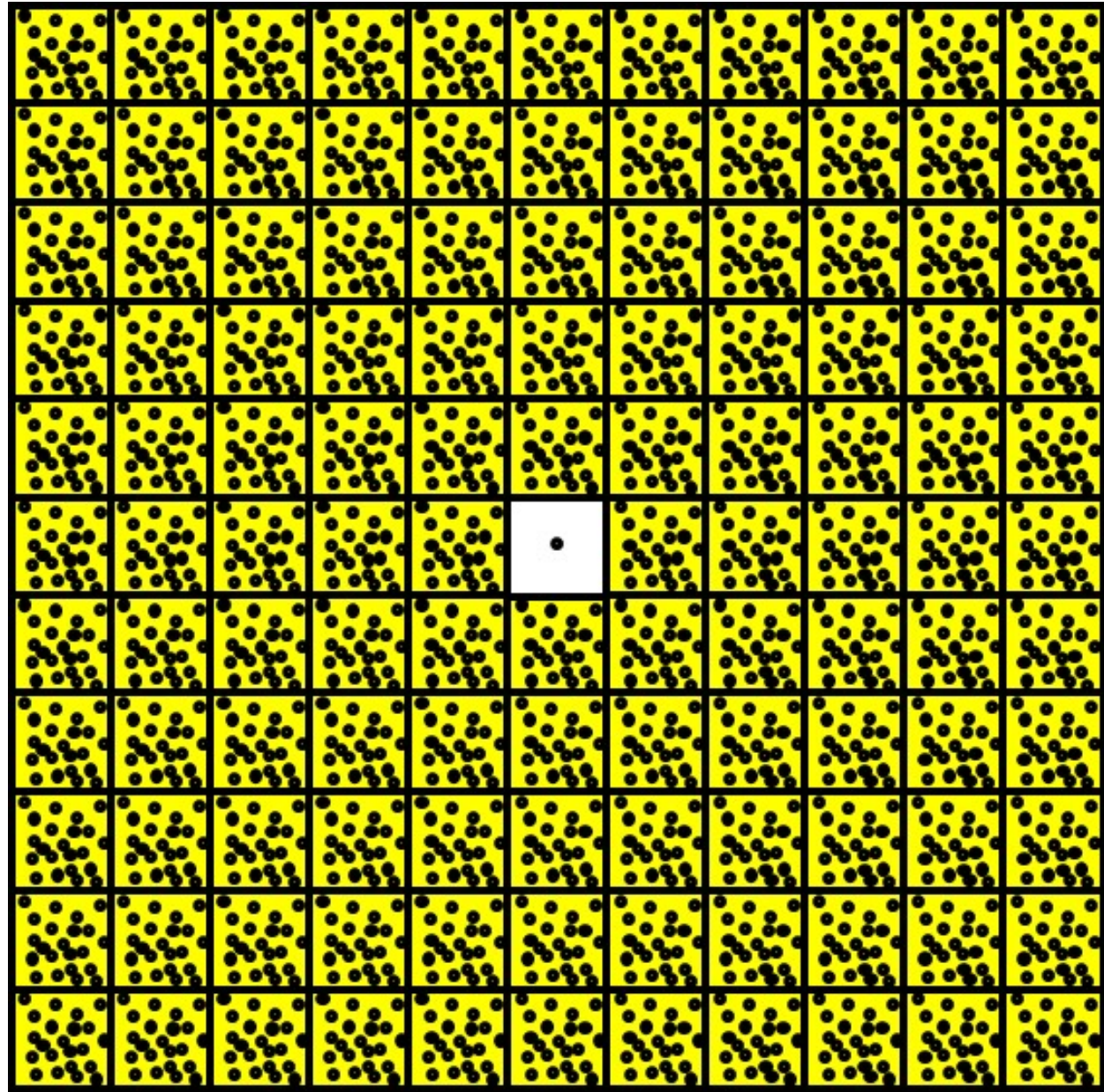
■ USA ■ USSR/Russia



* Excludes currently deployed warheads. Refers to active/inactive warheads in military custody and earmarked for future use.

Source: Federation of American Scientists





PIROCÚMULO

Flammagenitus

METEORED

La nube convectiva alcanza toques muy altos.

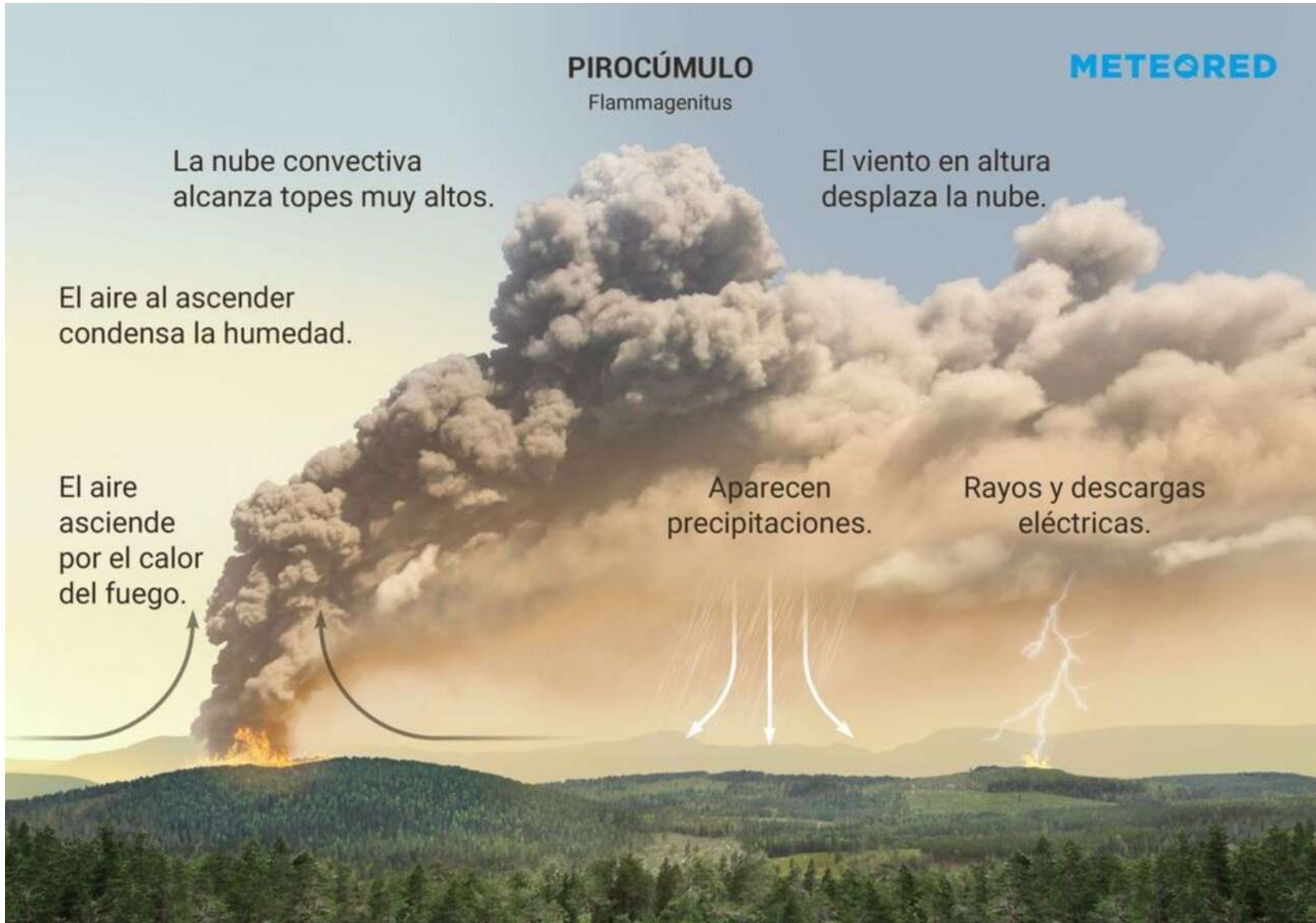
El viento en altura desplaza la nube.

El aire al ascender condensa la humedad.

El aire asciende por el calor del fuego.

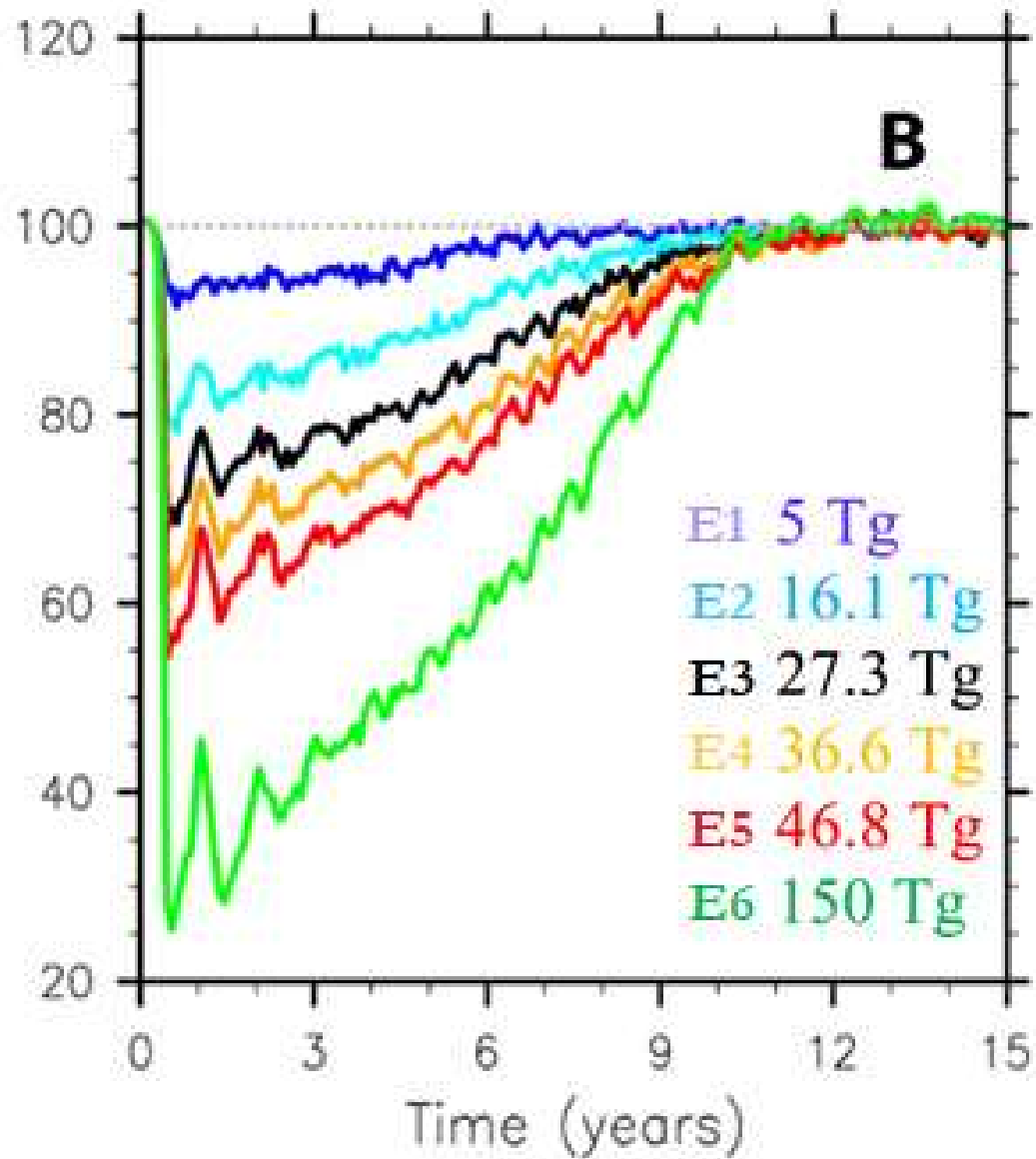
Aparecen precipitaciones.

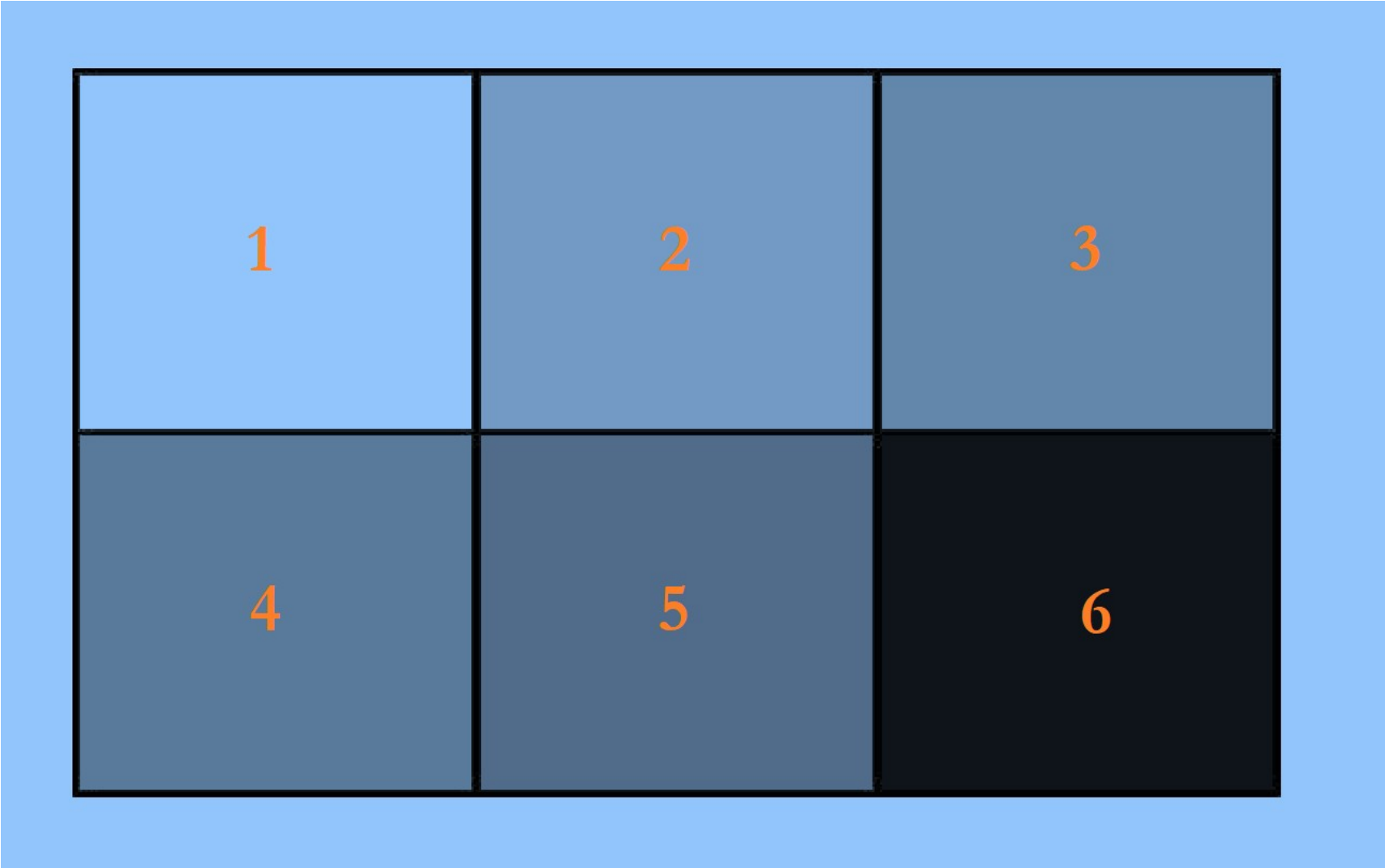
Rayos y descargas eléctricas.

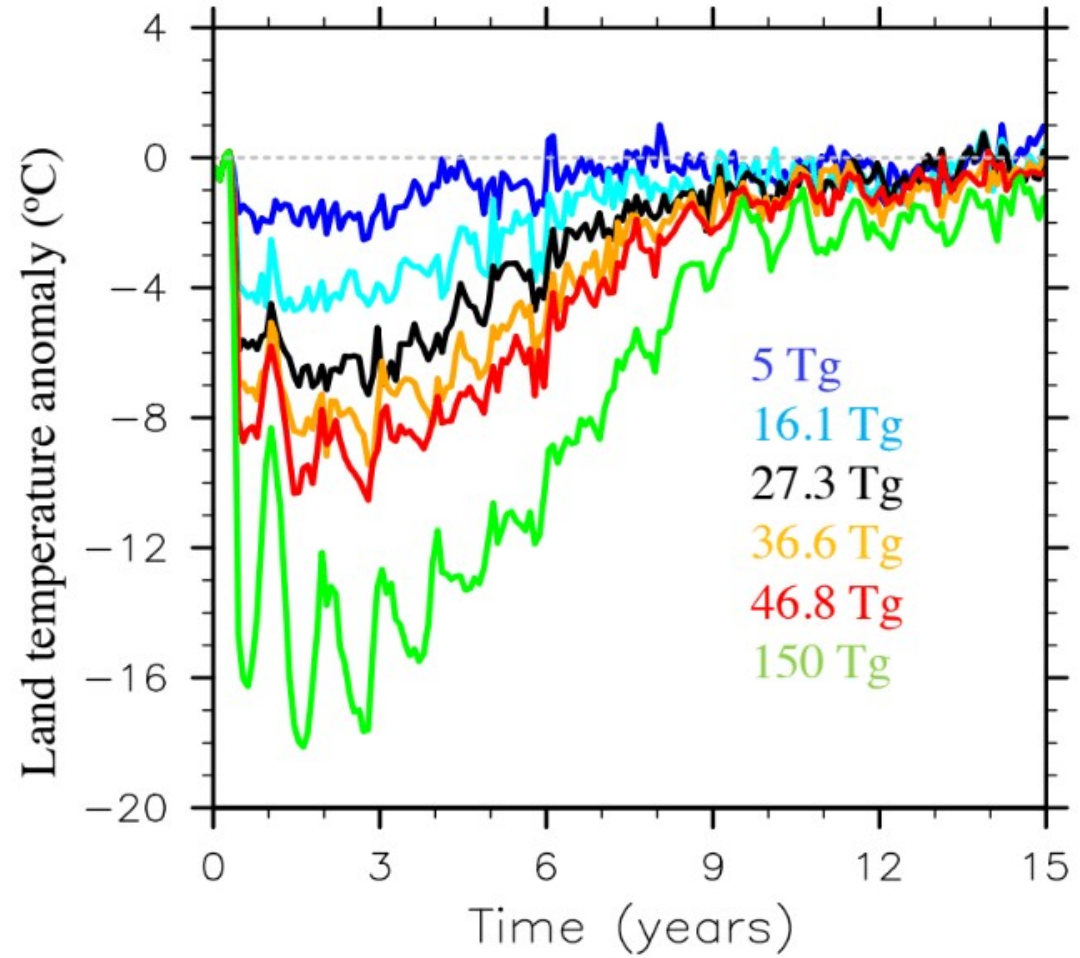
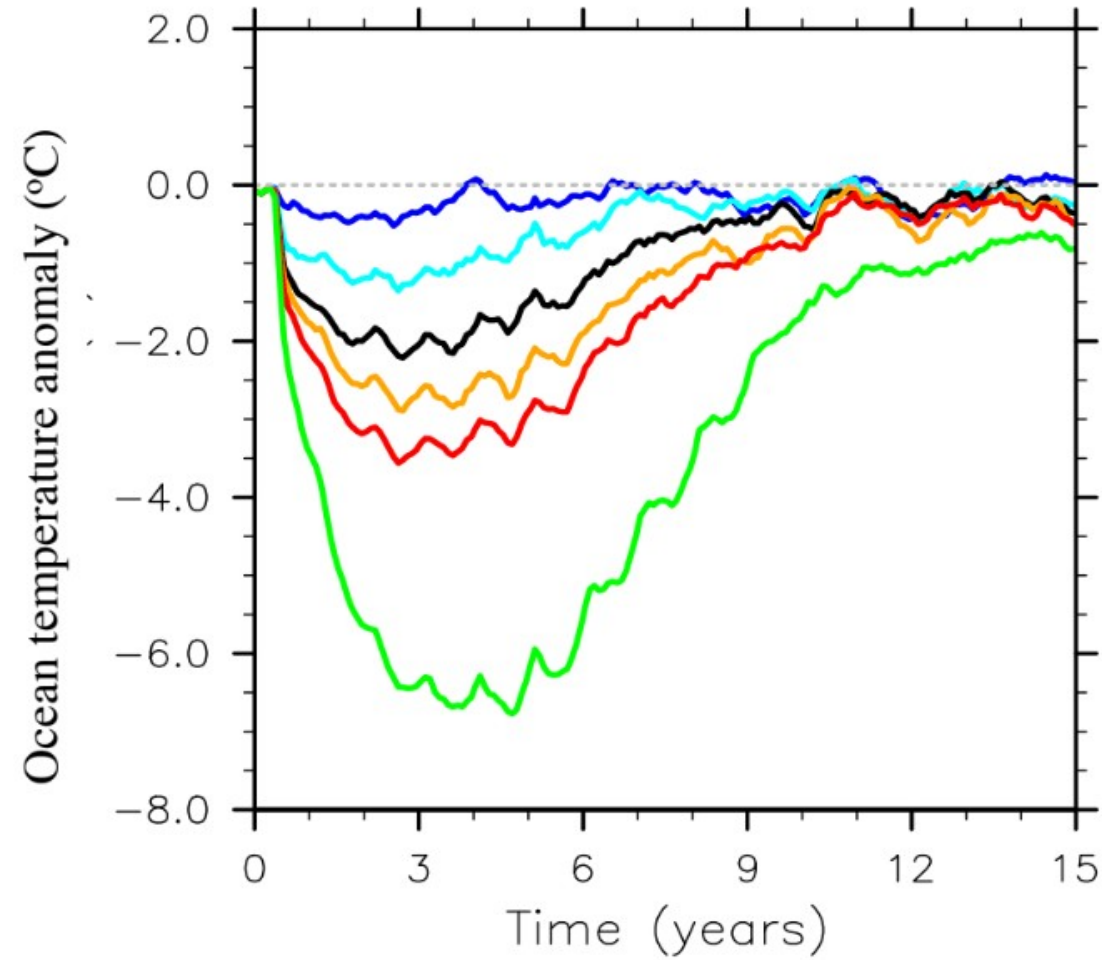


ESCENARIO	BELIGERANTES	ARMAS	FALLECIDOS	CENIZAS
1	India vs. Pakistán	100 ojivas 15 kt	27	5 Tg
2	India vs. Pakistán	295 ojivas 15 kt	52	16.1 Tg
3	India vs. Pakistán	295 ojivas 50 kt	97	27.3 Tg
4	India vs. Pakistán	295 ojivas 100 kt	127	36.6 Tg
5	EEUU vs. Rusia	1/3 arsenales	164	50 Tg
6	EEUU vs. Rusia	All-in	360	150 Tg

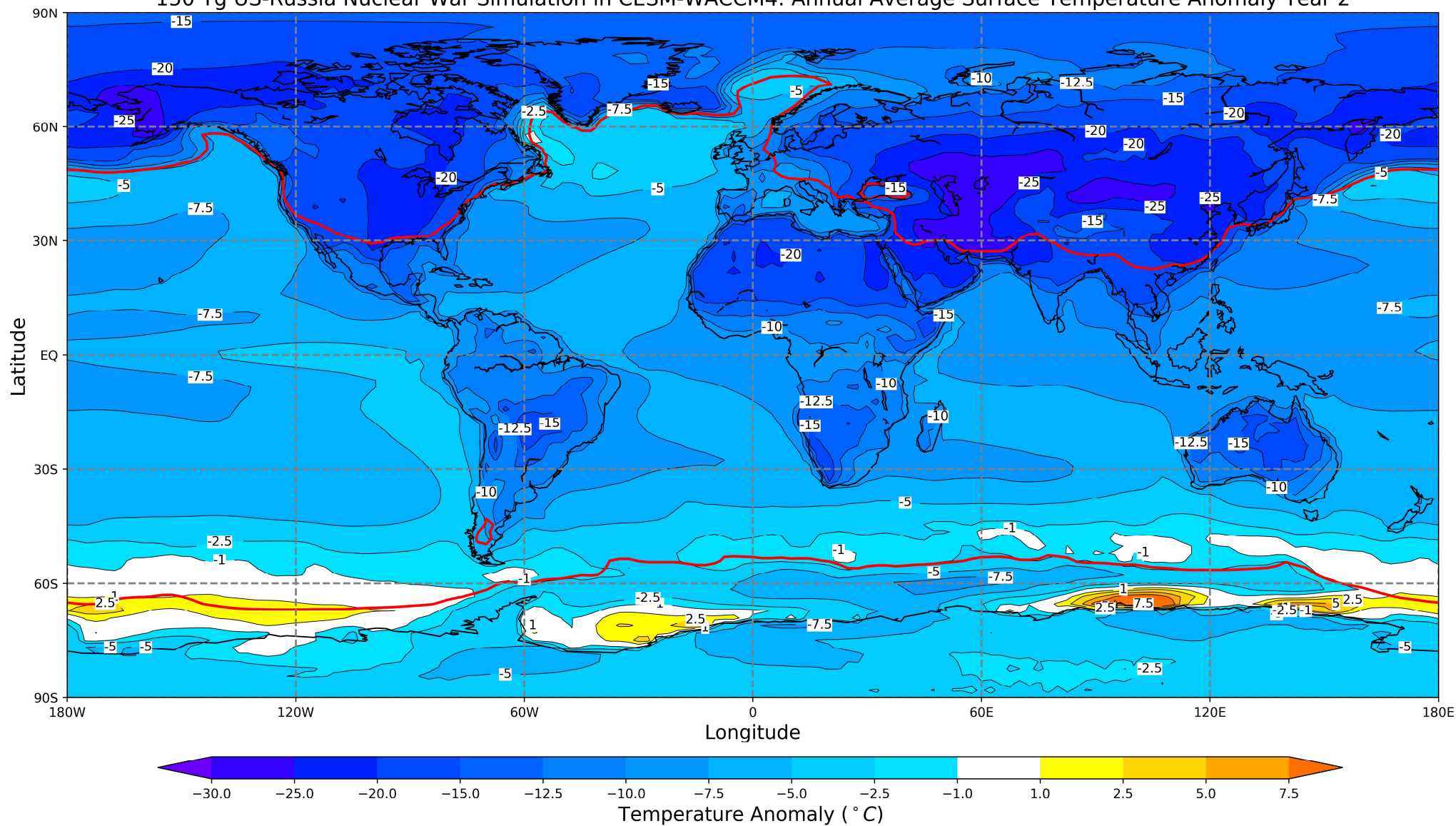
Toon et al., <https://www.science.org/doi/10.1126/sciadv.aay5478>



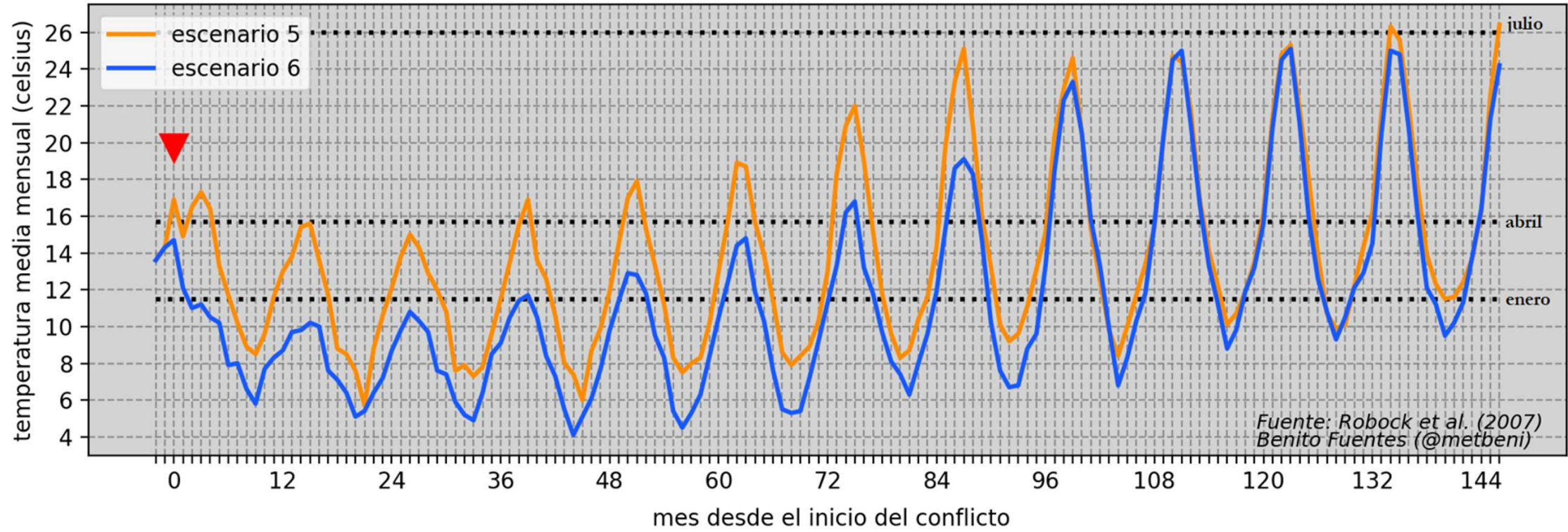




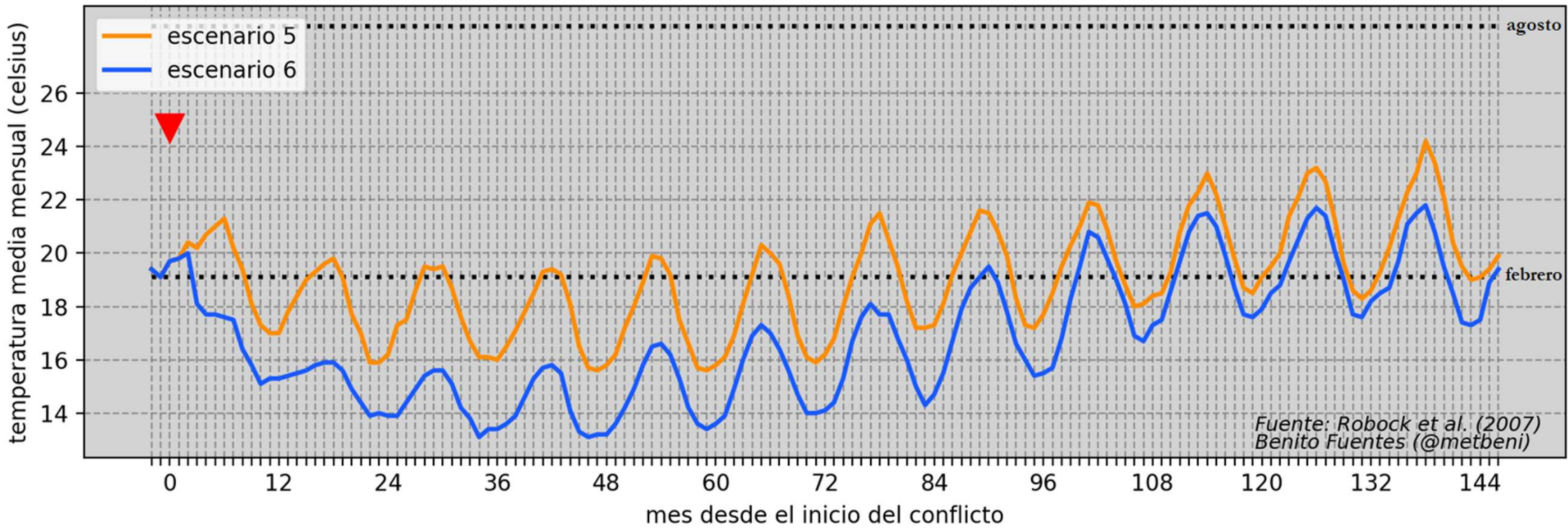
150 Tg US-Russia Nuclear War Simulation in CESM-WACCM4: Annual Average Surface Temperature Anomaly Year 2

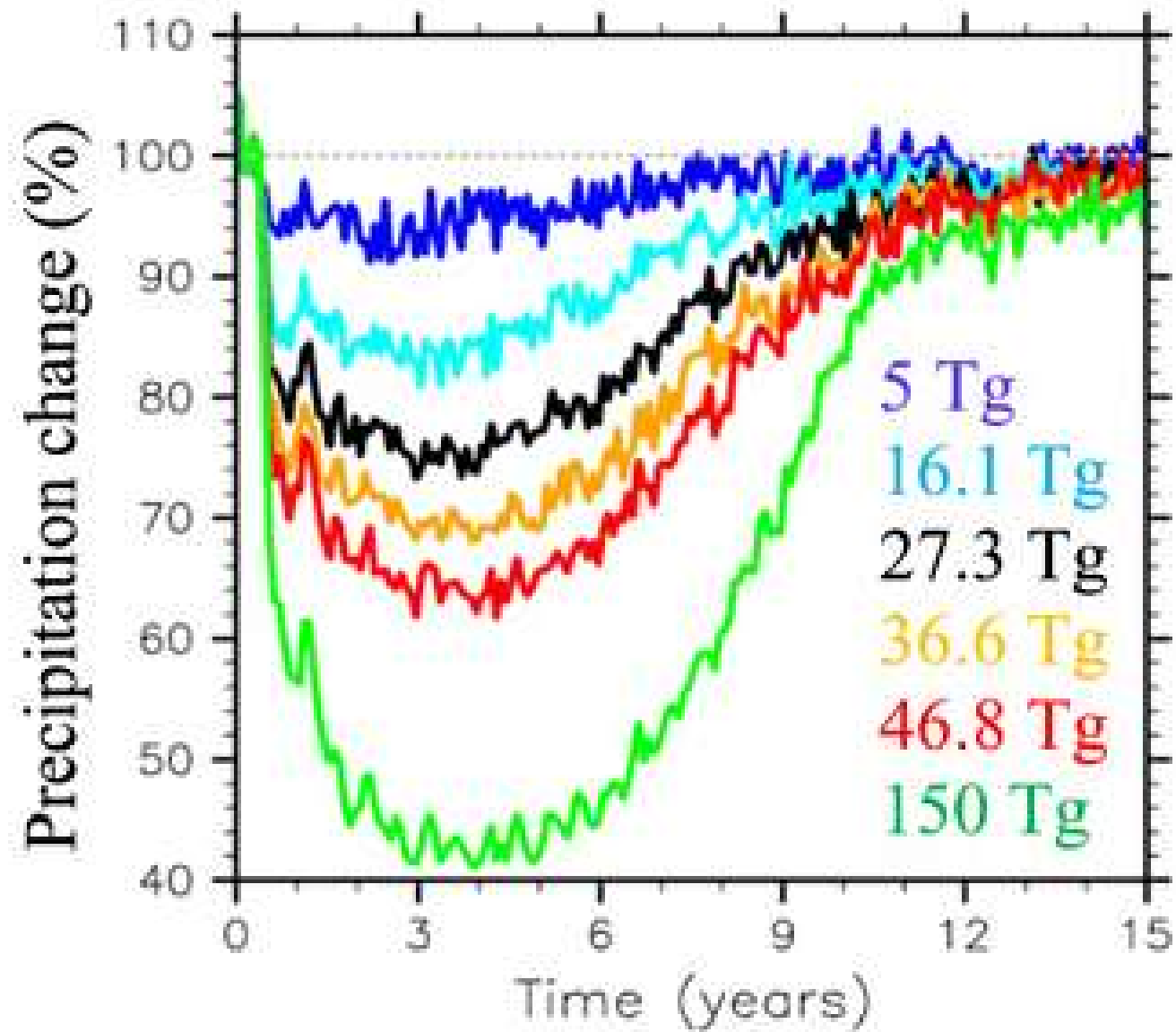


Península y Baleares

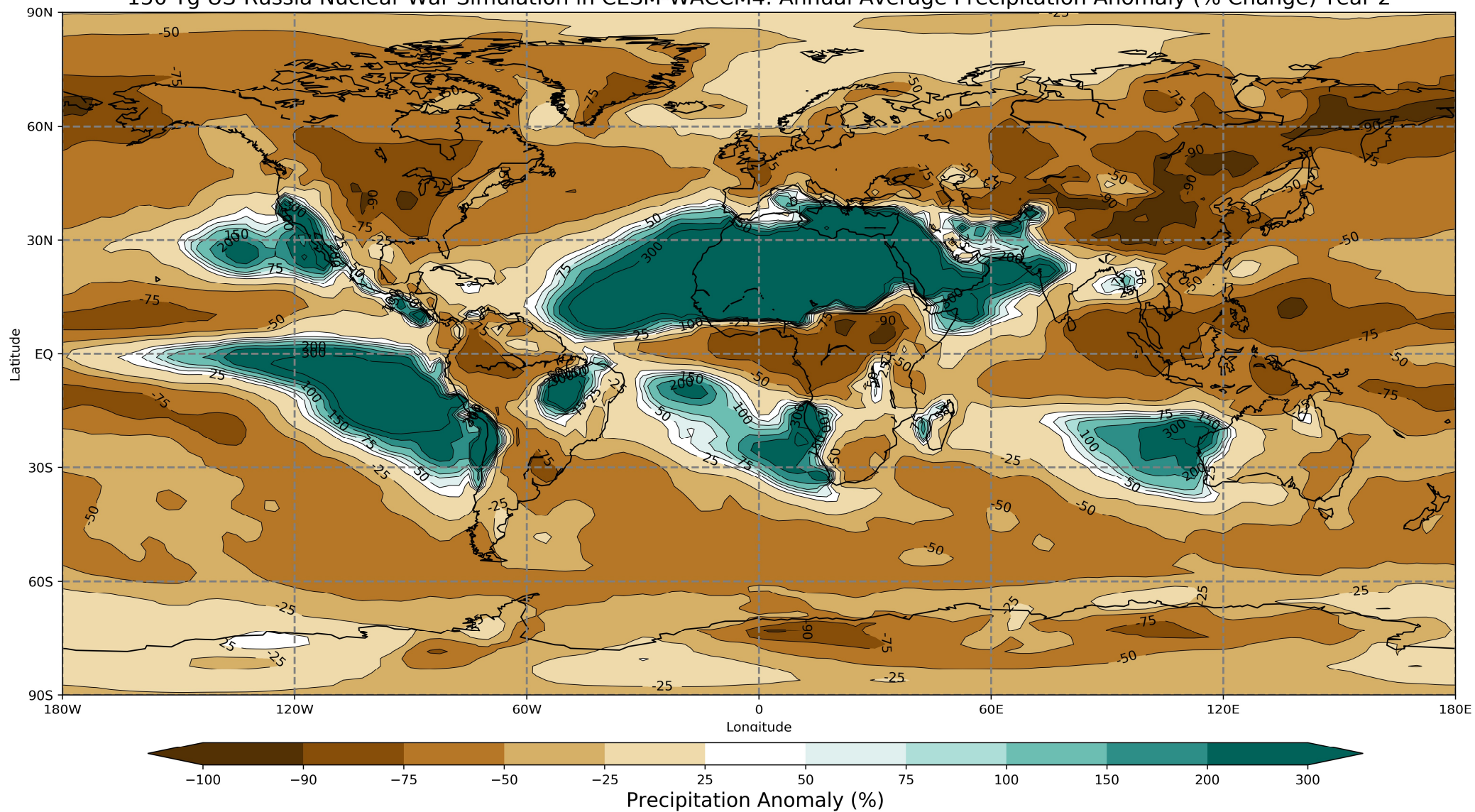


Canarias

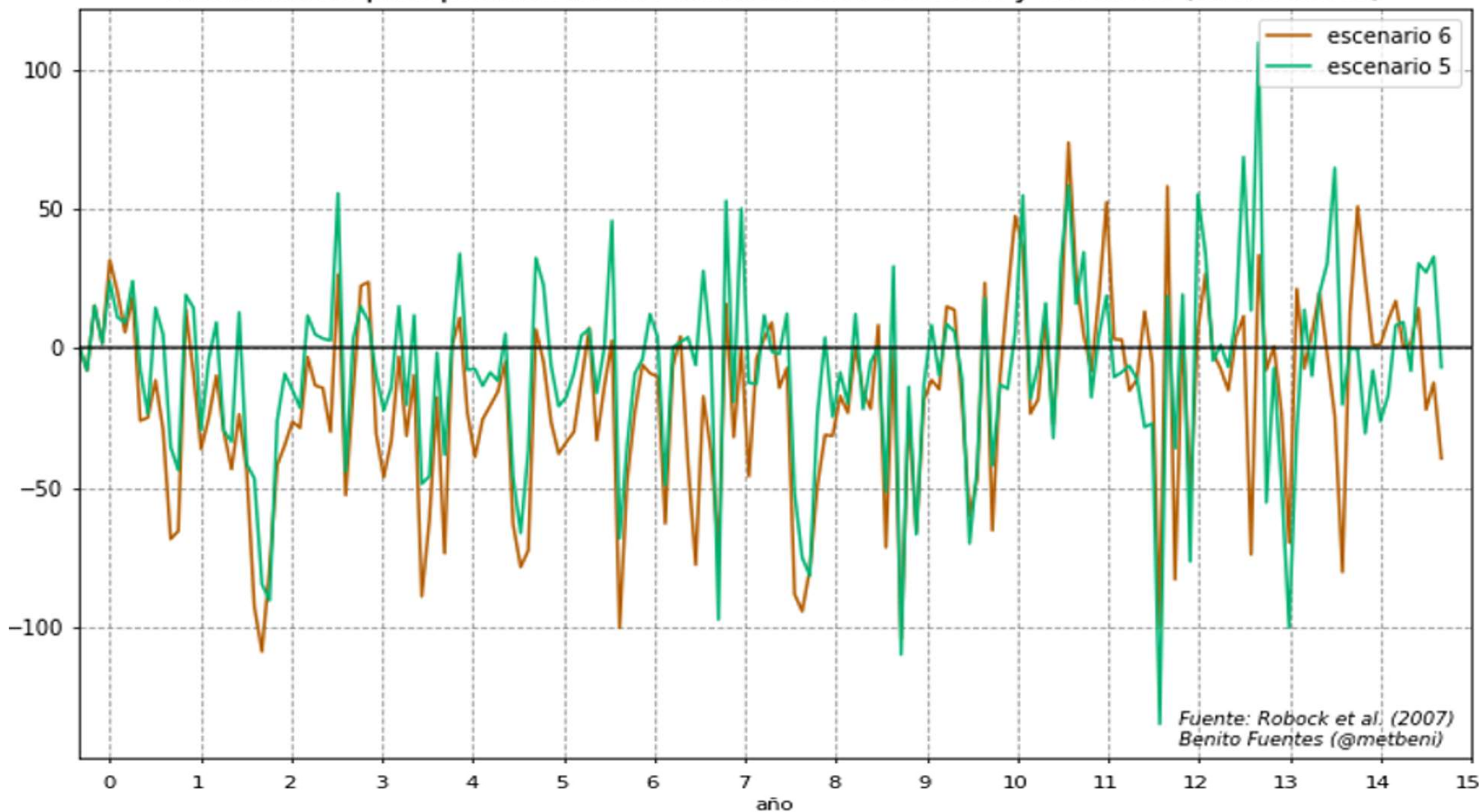




150 Tg US-Russia Nuclear War Simulation in CESM-WACCM4: Annual Average Precipitation Anomaly (% Change) Year 2

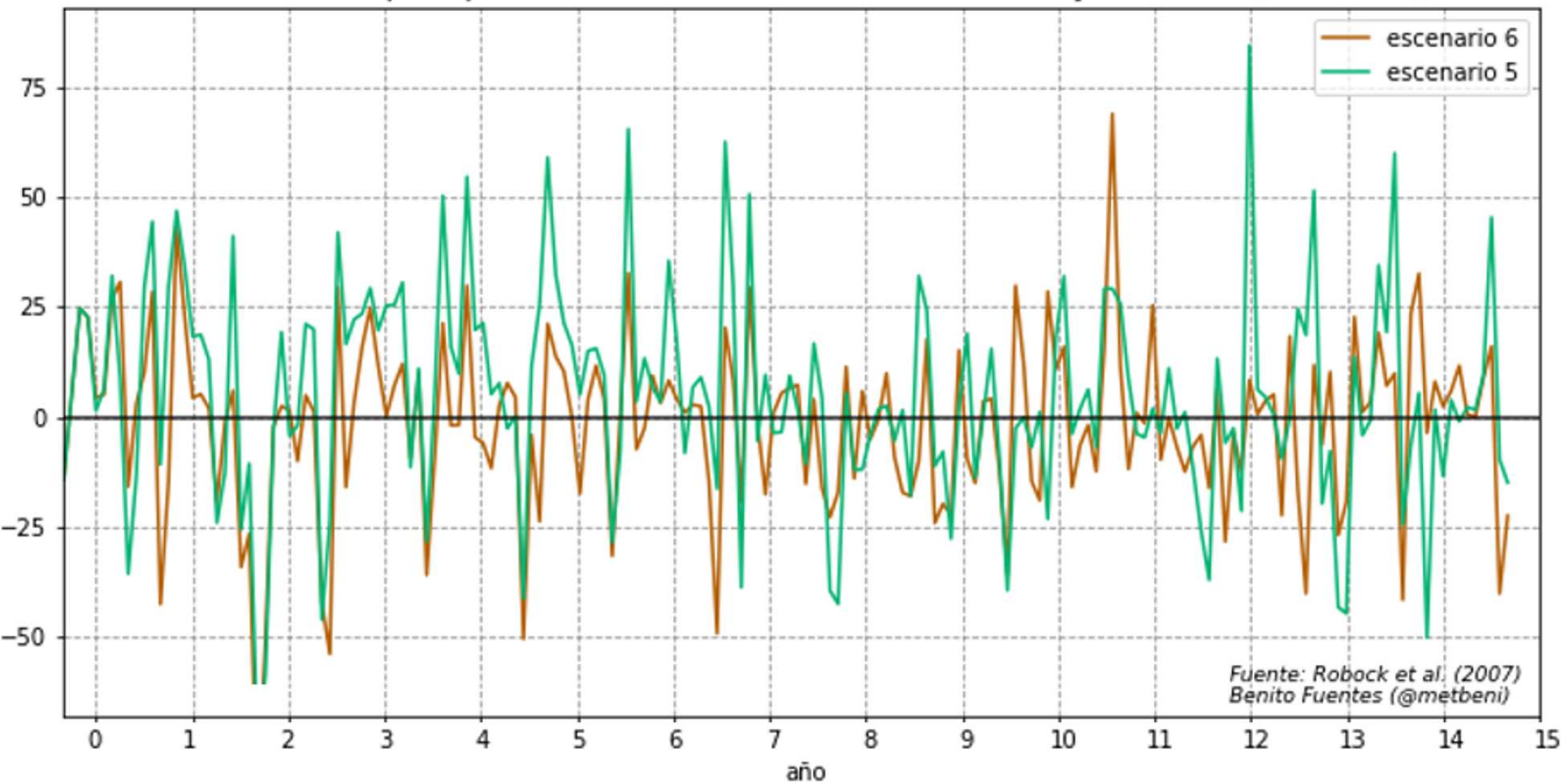


Anomalía de precipitación media mensual en Península y Baleares (mitad norte)



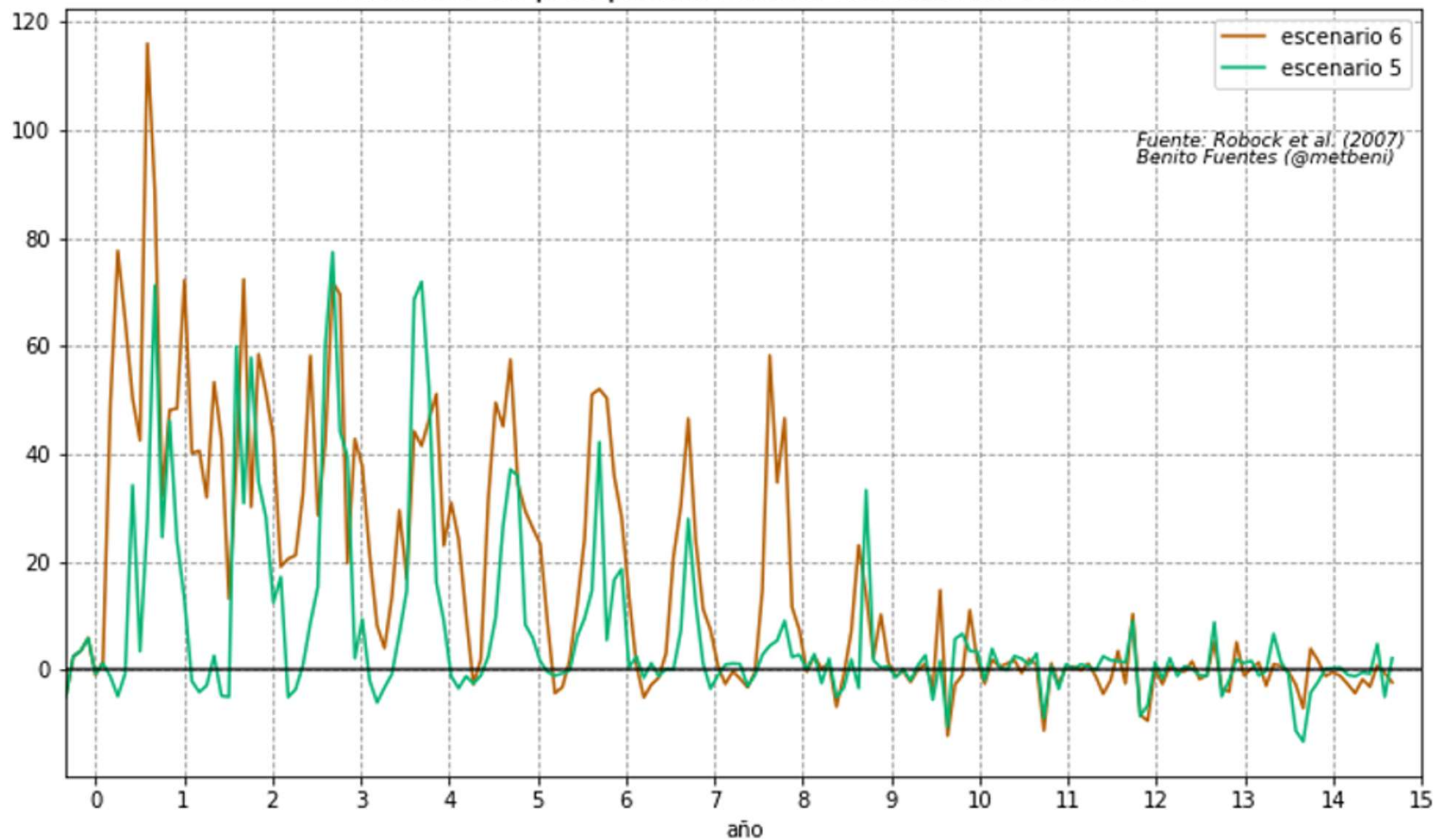
Fuente: Robock et al. (2007)
Benito Fuentes (@metbeni)

Anomalía de precipitación media mensual en Península y Baleares (mitad sur)



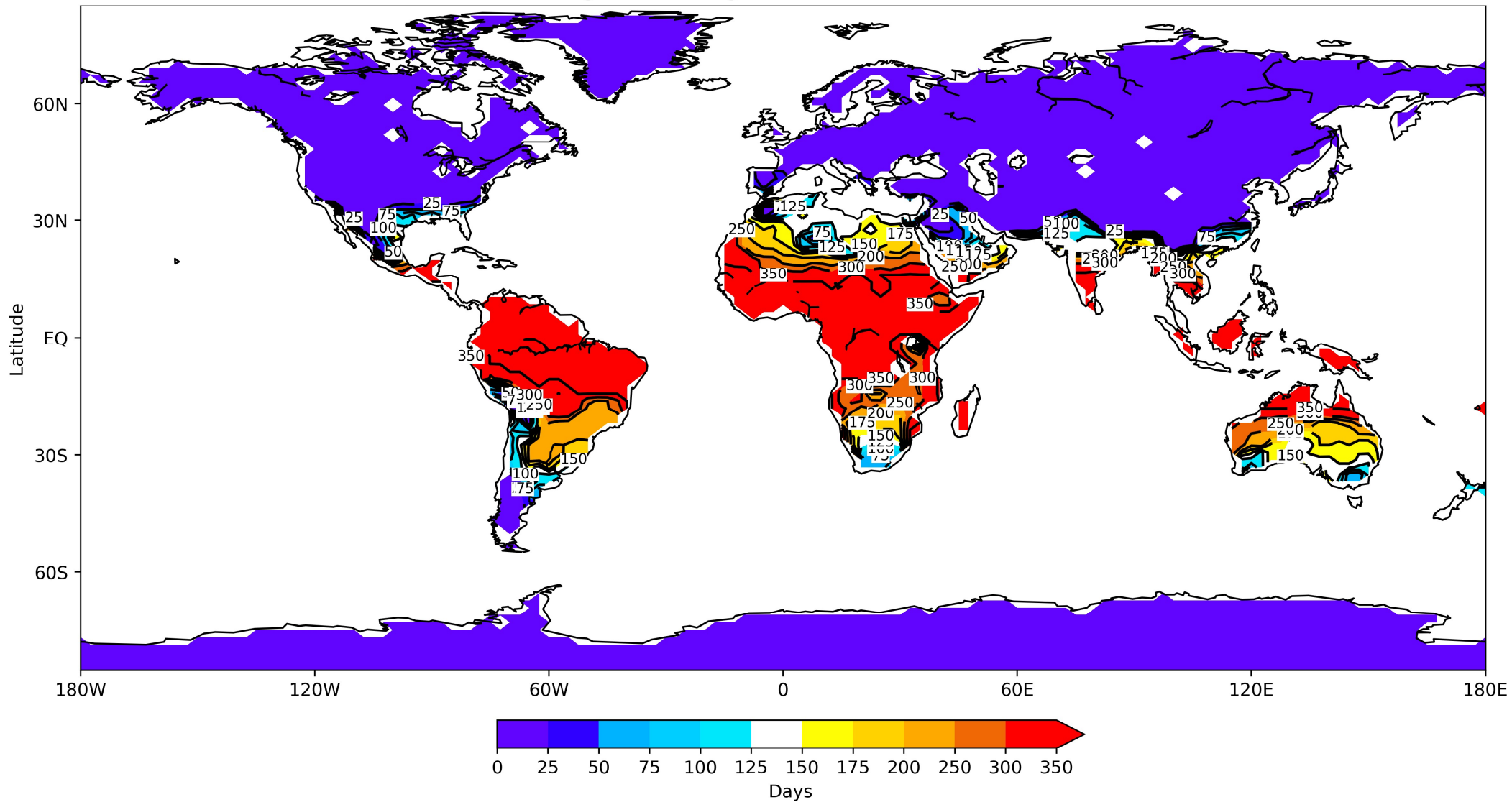
Fuente: Robock et al. (2007)
Benito Fuentes (@metbeni)

Anomalía de precipitación media mensual en Canarias



Robock et al., doi:10.1029/2006JD008235

150 Tg US-Russia Nuclear War Simulation in CESM-WACCM4:
Growing Season Length, Year 01 in NH; 01-02 in SH



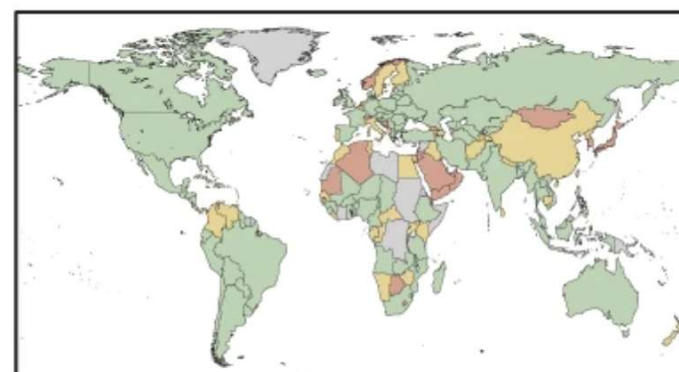
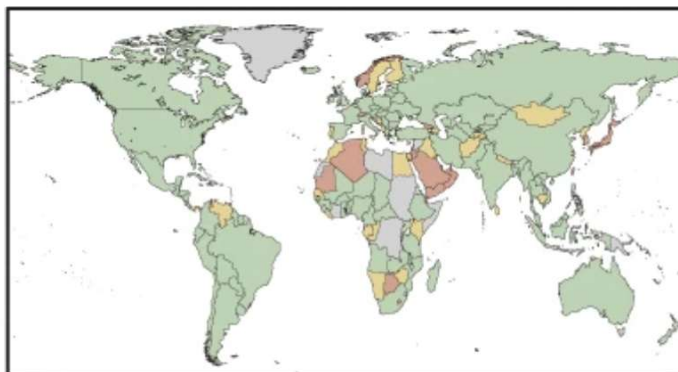
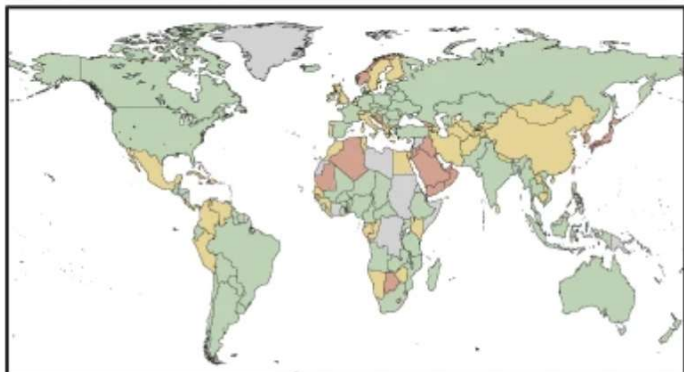
Robock et al., <https://www.nature.com/articles/s43016-022-00573-0>

Livestock case
(no trade)

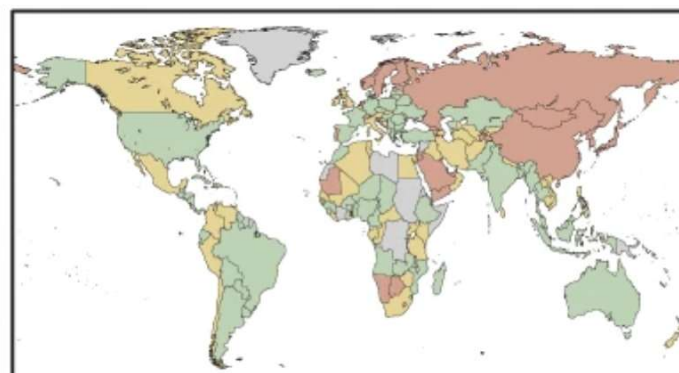
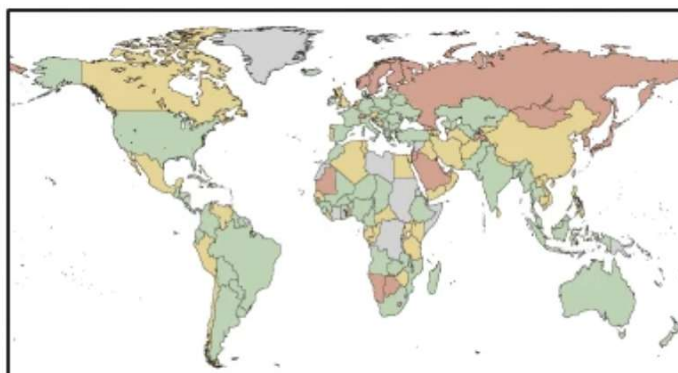
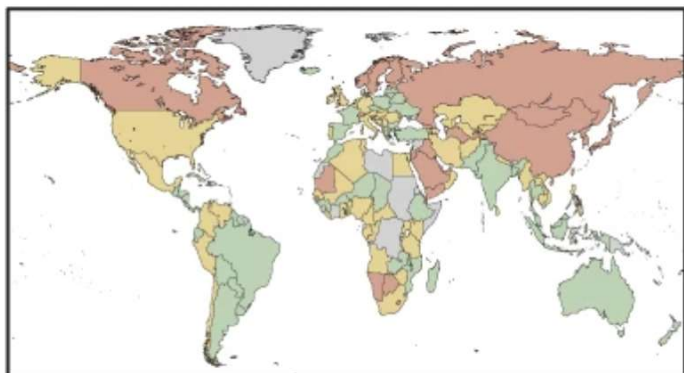
Partial Livestock case
(no trade)

No Livestock case
(no trade)

5 Tg



16 Tg



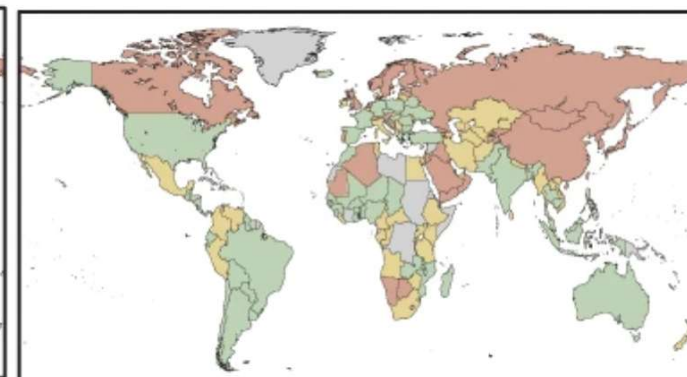
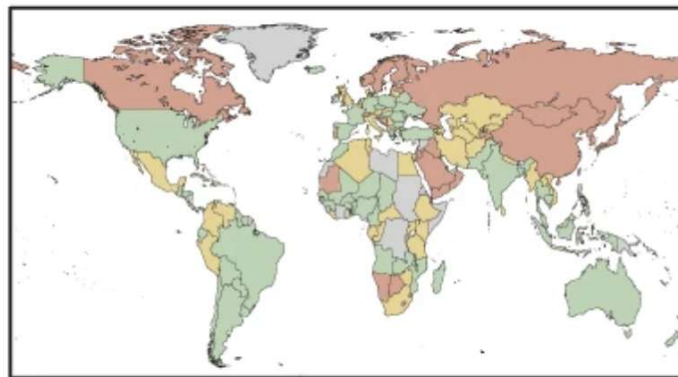
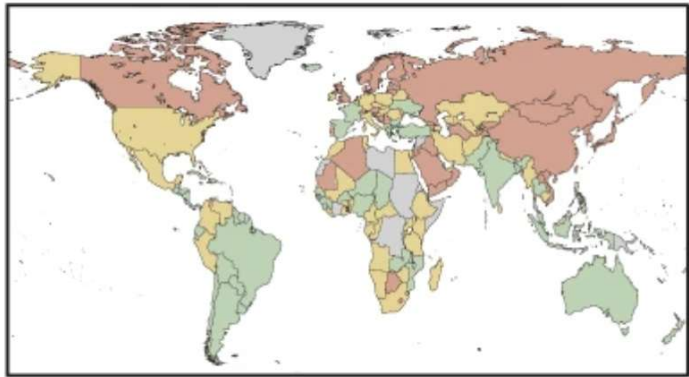
Robock et al., <https://www.nature.com/articles/s43016-022-00573-0>

Livestock case
(no trade)

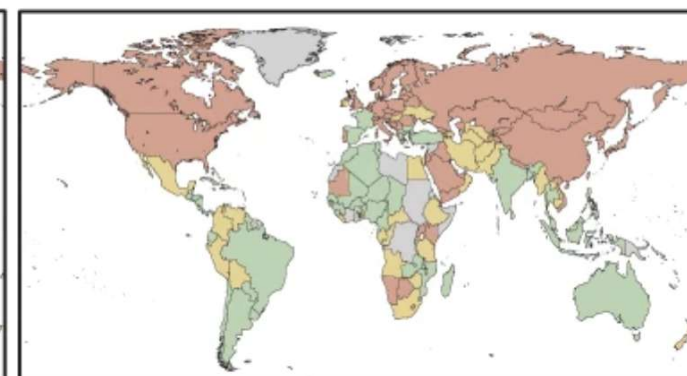
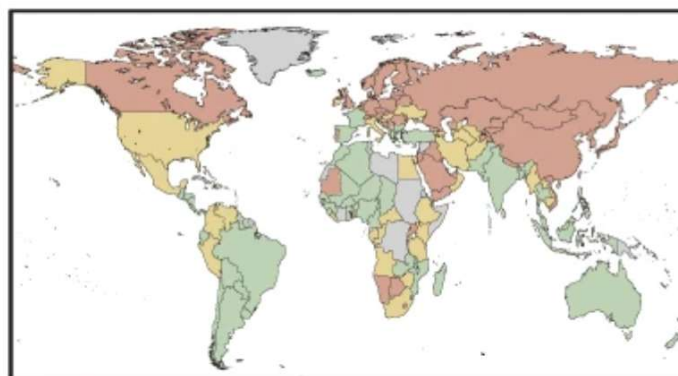
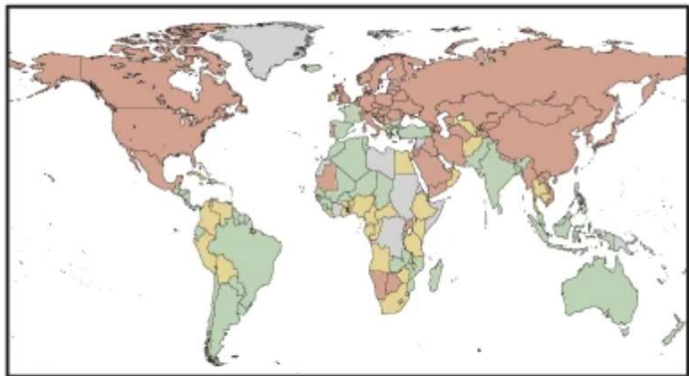
Partial Livestock case
(no trade)

No Livestock case
(no trade)

27 Tg



37 Tg



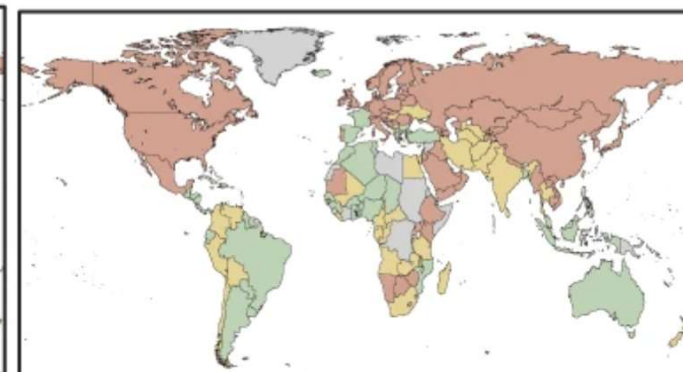
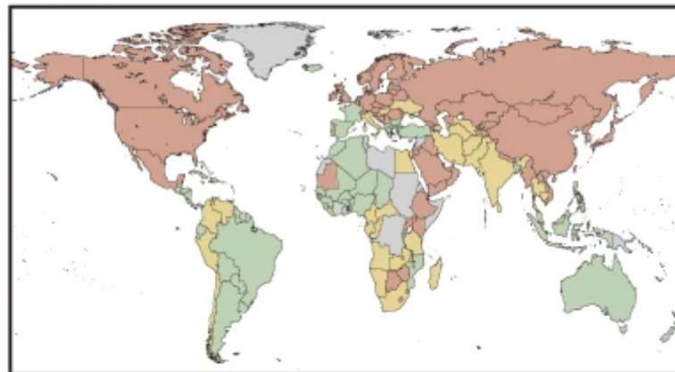
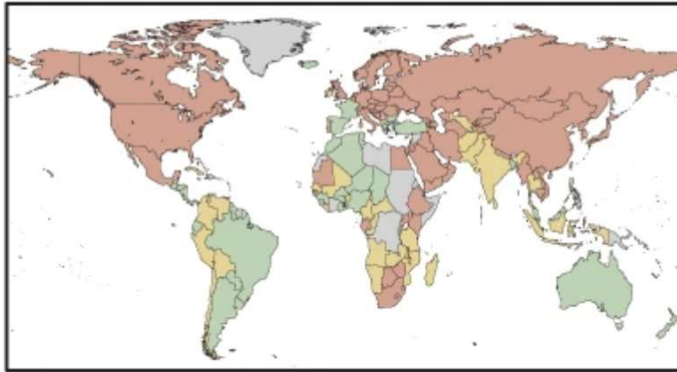
Robock et al., <https://www.nature.com/articles/s43016-022-00573-0>

Livestock case
(no trade)

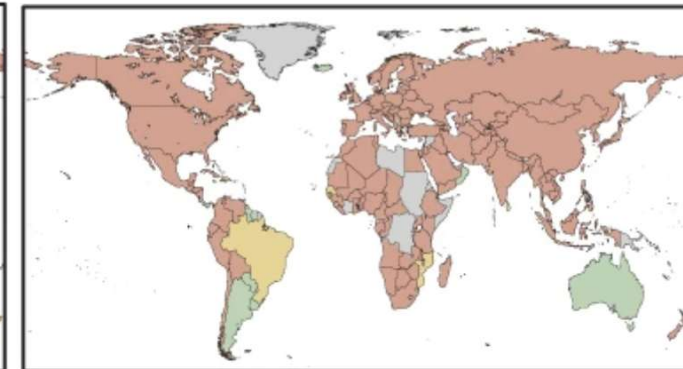
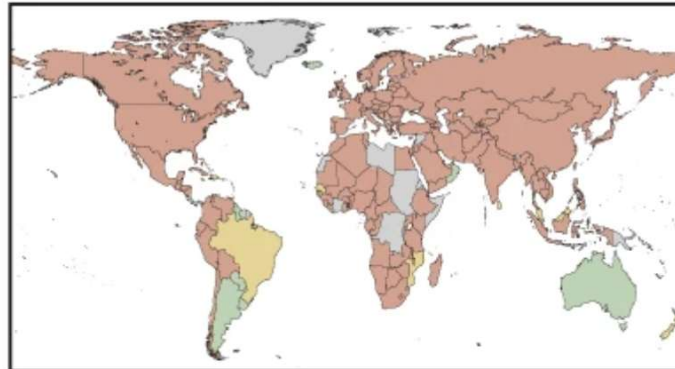
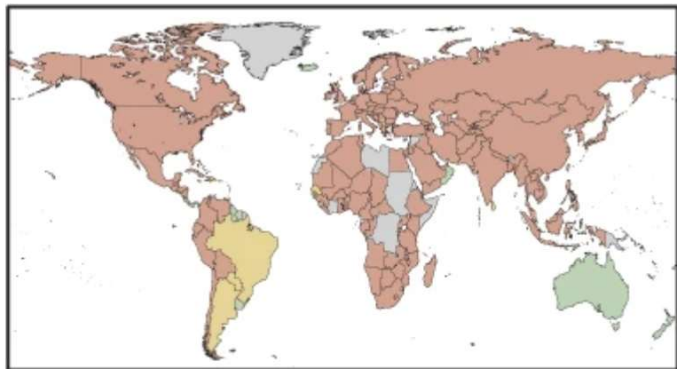
Partial Livestock case
(no trade)

No Livestock case
(no trade)

47 Tg



150 Tg



Escenario	1	2	3	4	5	6
Fallecidos en las explosiones	27	52	97	127	164	360
Personas sin alimento al final del segundo año	255	926	1426	2081	2512	5341
Porcentaje sobre la población total	4.2%	14.6%	22.7%	33%	40%	85.1%