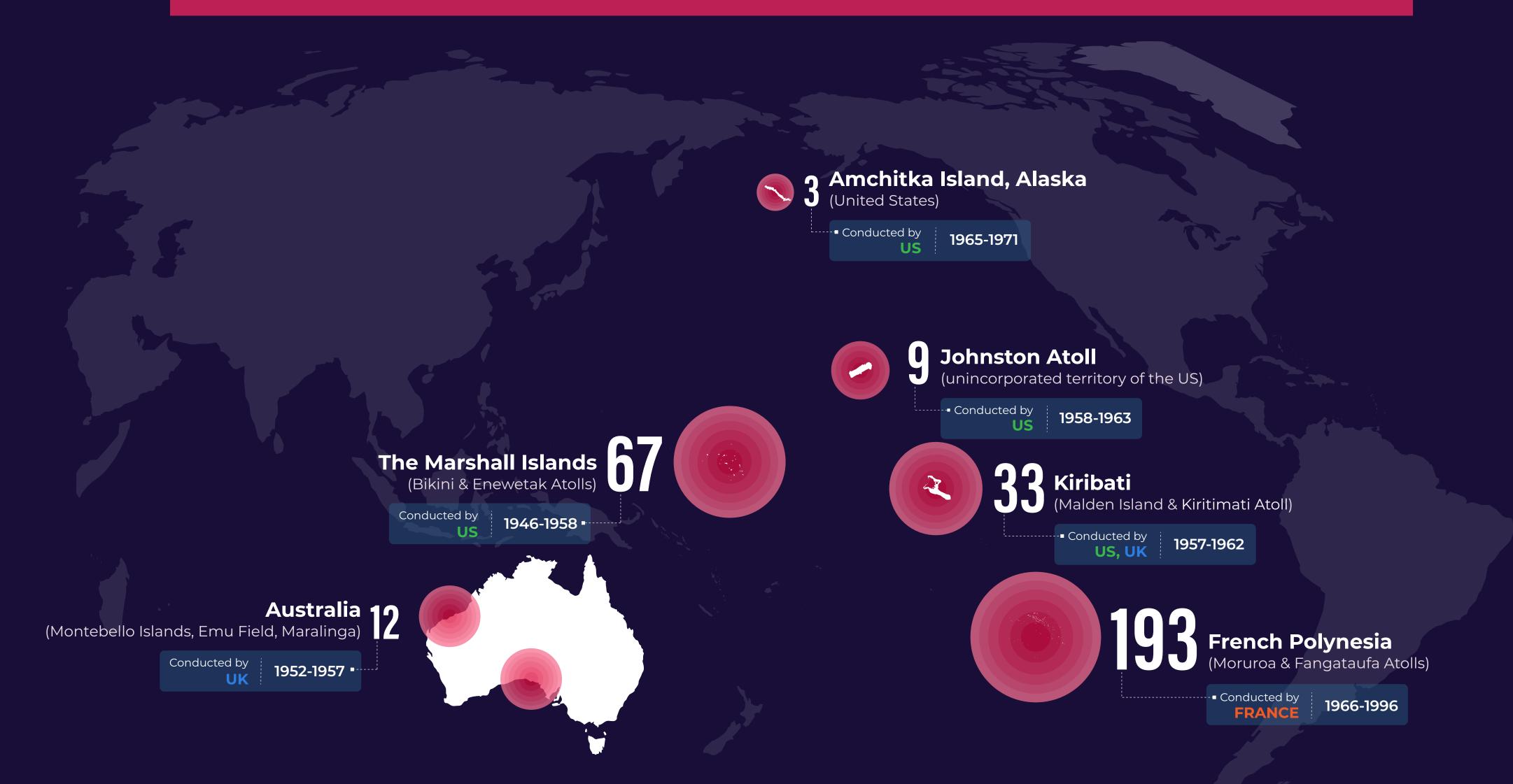
NUCLEAR TESTS IN THE PACIFIC

1946-1996

Total nuclear tests in the Pacific Islands: 317

Total yield of the tests = 1.6 Hiroshima-sized bombs per day



French Polynesia (Moruroa & Fangataufa Atolls)

- 193 tests by France
- Moruroa Atoll 179 tests (including **42** atmospheric tests &

137 underground tests)

- Fangataufa Atoll 14 tests (including 4 atmospheric & 10 underground nuclear tests)
- 24 September 1966 Rigel Test: First atmospheric tests at Fangataufa

The Marshall Islands

- 23 tests: at Bikini Atoll
- 1 July 1946 Shot Able: First test at
- Bikini Atoll, part of Operation Crossroads
- **1951** Operation Greenhouse: series of tests at Enewetak Atoll
- 1952 Operation Ivy: first series of thermonuclear tests at Enewetak Atoll
- 1 November 1952 Operation Shot Mike: first successful thermonuclear test
- by the United States • 1 March 1954
- Castle Bravo test: largest known nuclear detonation.
- **Castle Bravo Test:** The Castle Bravo test had a yield of 15 megatons, making it 1,000 times more powerful than the atomic bomb

dropped on Hiroshima.

Radioactive material from the test is estimated to have spread over an area of approximately 11,000 square kilometers. Radioactive material on the Bikini Atoll produces 184 millirems of radiation a year.

Concerns have been raised of radioactive material leakage from the Runit Dome on Enewetak Atoll into the surrounding ocean and groundwater.

(Malden Island & (Bikini & Enewetak Atolls) Kiritimati Atoll)

- 9 tests by the United Kingdom • 67 tests by the United States 24 tests by the United States
 - 44 tests: at Enewetak Atoll • 15 May 1951 Short Granite: First
 - thermonuclear test attempted by the UK (Malden Island)

Kiribati

- 8 November 1957 Purple Granite: First successful
- thermonuclear test by the UK (Kiritimati Atoll) • 1962
- Operation Dominic: 24 nuclear detonations conducted by the US (Kiritimati Atoll)
- **Operation Grapple:**

Operation Grapple was an important part of the British mission to develop a hydrogen bomb. It included four series of tests at Malden Island and Kiritimati Atoll (British colonies until 1979) in the Gilbert and Ellice Islands in the Pacific Ocean (modern Kiribati).

Operation Grapple ended in September 1958, with the 'United States-United Kingdom' Mutual Defense Agreement,' a treaty between the US and the UK on nuclear weapons testing.

- **Johnston Atoll** (unincorporated territory of the US)
- 9 tests by the United States
 - Including atmospheric tests and extremely high-altitude nuclear explosions in outer space
- **1958**

2 "Hardtack I" nuclear tests firings: "Hardtack Teak" (August 1, 1958) & "Orange" (August 12, 1958)

- **1962**
- Operation Dominic: 7 nuclear tests
- Australia (Montebello Islands, Emu Field, Maralinga)
- **United Kingdom** • 3 tests in Montebello Islands.

• 12 tests by the

- 2 tests in Emu Field, **7 tests** in Maralinga
- 3 October 1952
 - Operation Hurricane: first British nuclear weapon test on the Montebello Islands off the Western Australian coast
- 15-27 October 1953
- Operation Totem: British atmospheric nuclear tests which took place at Emu Field in South Australia
- 27 September 1956 Operation Buffalo (4 tests): First Britain test at Maralinga
- 14 September 9 October 1957 Operation Antler (3 tests) in Maralinga

200+ minor trials of radioactive and toxic materials aimed at testing the performance of weapons components and investigating safety issues.

Plutonium contamination at Maralinga was caused by these minor trials.

- Amchitka Island, Alaska (United States)
- 3 tests by the United States

First test, Long Shot

- 1965
- 1969
- Second test, Milrow
- 1971 Third test, Cannikin

the US.

The Cannikin test had a yield of under five megatons, the largest underground test ever conducted by

Countries responsible for nuclear testing in the Pacific

103 us 193 FRANCE



https://icanw.org.au/wp-content/uploads/Pacific-Report-2017.pdf); https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4165831/;

https://thebulletin.org/2021/11/the-untold-story-of-the-worlds-biggest-nuclear-bomb/, https://www.cbsnews.com/news/enewetak-atoll-dome-un-antonio-guterres-concerns-marshall-islands-structure-leaking-radioactive-material-pacific/



