

May How Hurricanes Are Named The Science and System Behind the Storm Names

6 What Is a Hurricane?

A **hurricane** is a type of **tropical cyclone**—a large, rotating storm system that forms over warm ocean waters near the equator.

To be called a "hurricane," a storm must reach wind speeds of 74 mph or more.

Tropical cyclones are called **hurricanes** in the Atlantic and Eastern Pacific, but they're called:

- **Typhoons** in the Northwest Pacific
- Cyclones in the South Pacific and Indian Ocean

Why Do We Name Hurricanes?

Naming hurricanes helps scientists, emergency responders, and the public by:

- Making storm tracking and communication clearer and faster
- Helping avoid confusion when multiple storms happen at once
- Making warnings more memorable and serious
- Scientific Importance: When meteorologists use consistent names, it helps them collect data, model storm paths, and publish research without mix-ups.

Who Chooses the Names?

Hurricane names are chosen by the **World Meteorological Organization (WMO)**, a United Nations agency.

Each region of the world has its **own name list**, created years in advance.

For the **Atlantic hurricane season**, the WMO uses:

- A list of **21 names per year**
- Names that alternate between male and female
- Names listed in alphabetical order

Names are chosen based on:

- Simplicity (easy to spell and pronounce)
- Cultural familiarity for countries in the storm zone (Caribbean, North America, etc.)

How Often Are Names Reused?

The WMO rotates name lists every 6 years, so most names are reused.

But if a hurricane is **especially deadly or costly**, its name is **retired** out of respect and to avoid confusion.

Retired Names Example:

- Katrina (2005) Over 1,800 lives lost, massive flooding in New Orleans
- Maria (2017) Devastated Puerto Rico
- Ian (2022) Category 4 storm with major U.S. impacts

ıl 202	5 Atlant	ic Hurr	icane	Names	
Α	В	C D		E	F
Albert	o Beryl (Chris D	ebby	Ernesto	Francine
G	Н	I	J	K	L
Gordo	n Helen	e Isaad	Joyc	e Kirk	Lesli e
M	N	0	Р	R	S
Milton	Nadine	Osc	ar Pat	ty Rafael	Sara
Т	V	W			
Tony	Valerie '	William			
Nh Wh	y no Q, l	J, X, Y,	or Z?		
		_	idely u	ised nam	es starting with these letters, so the WMO skips them
to avoi	id confus	sion.			
Qui	alternat ck Scien Tropical They are updrafts Earth's Naming better.	e name ce Fac cyclon power s. Coriolis doesn'	es, NO ets es fori ed by I s effec t affec	n over wheat and	n one season (like in 2020), the WMO uses a backup sek alphabet (which caused confusion in the past). For arm ocean water (about 80°F / 27°C or warmer). For moisture from the sea, which rise and create strong at the storm to spin. For arm ocean water (about 80°F / 27°C or warmer). For arm ocean water (about 80°F / 27°C or warmer). For arm ocean water (about 80°F / 27°C or warmer). For arm ocean water (about 80°F / 27°C or warmer). For arm ocean water (about 80°F / 27°C or warmer). For arm ocean water (about 80°F / 27°C or warmer).
Che	eck Your	Under	standi	ng	
1.	Why is world?	it helpf	ul for s	scientist	s to use the same names for hurricanes around the
2.	What m	okoo o			

3. What do you think could happen if multiple storms didn't have unique names?