

NATIONAL GEOGRAPHIC



Secrets of the Octopus

Why these sea creatures are so much more than meets the eye

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The Flamekeepers

A modern view of Zoroastrianism, one of the world's oldest faiths

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The unique habitat of England's chalk streams

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Jupiter's STORMY STRIPES

NASA's Juno spacecraft has spent more than seven years orbiting the solar system's largest planet. Its detailed images of Jupiter's turbulent atmosphere are helping scientists understand the forces behind the colossal storms roiling the gas giant.

By MATTHEW W. CHWASTYK

THE RED TEMPEST

At the edges of this 10,160-mile-wide storm, winds can surpass 400 miles an hour. Observing it for centuries, astronomers have noted changes in the storm's size and shape. The cause of its red hue remains a mystery.



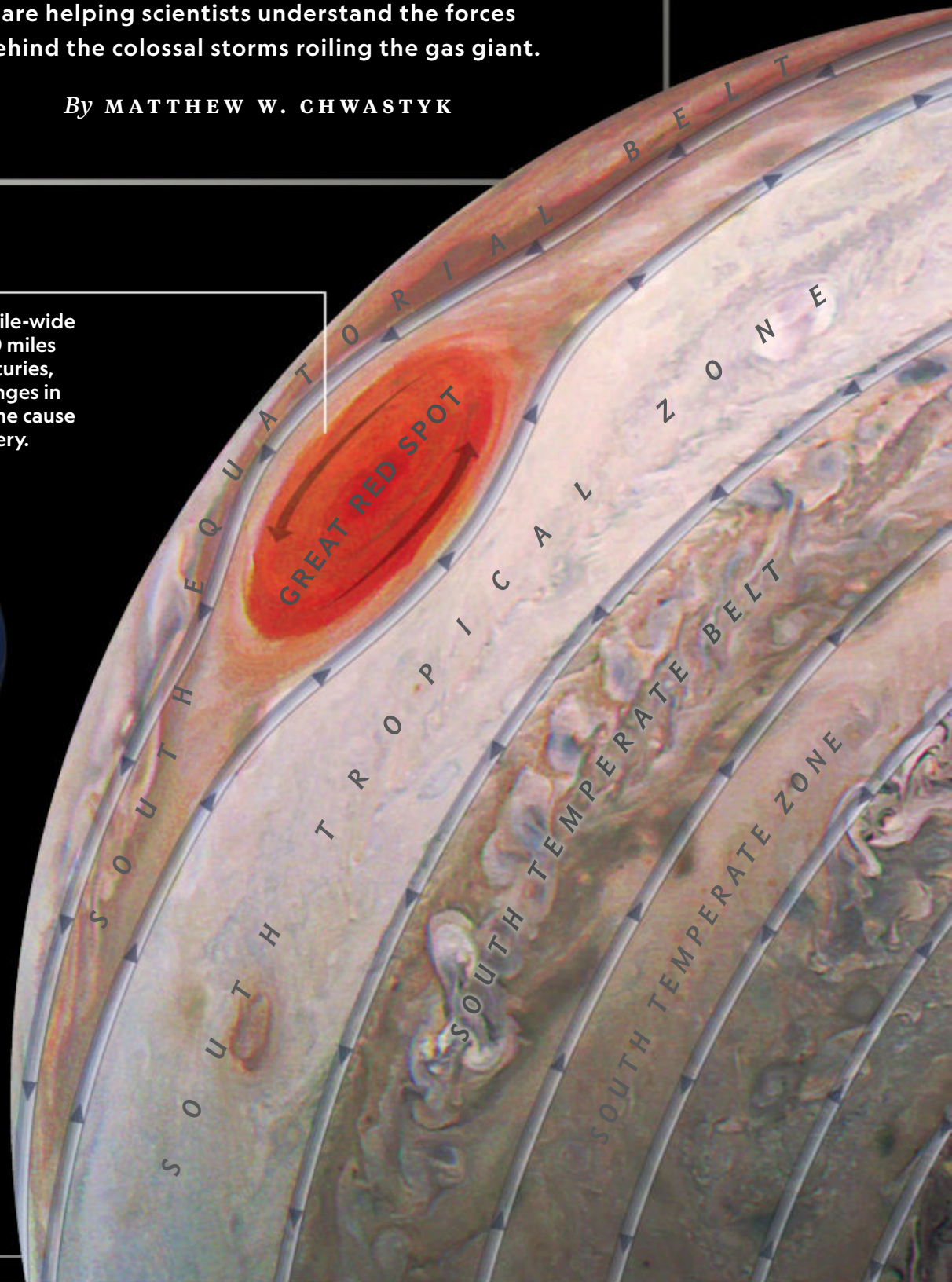
Earth at the same scale and orientation

JUPITER BY THE NUMBERS

Length of day:
9 hours, 56 minutes

Rotational speed:
28,273 mph at equator

Temperature at upper layer of atmosphere:
-258°F



CONTAINED CHAOS

Jupiter's rotation, the fastest of the eight planets, projects immense energy into the atmosphere. Zonal wind speeds can top 300 mph.

Zones
Light stripes show cooler, rising gases with high clouds of tiny ammonia ice crystals.

Belts
These darker bands of sinking atmosphere provide a view into Jupiter's deeper layers.

