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The shadow of NASA's P-3 turboprop plane above western Antarctica in November

Photograph by Paolo Pellegrin for TIME

ON THE COVER: Photograph by Tony Law—Redux for TIME

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Approximate number of years since the Calhong, a hummingbird-like dinosaur with rainbow feathers, roamed the land now known as China. according to a new study in the journal Nature Communications

Increase since 2006 in average number of children born to American women, after decades of declining fertility, according to a new Pew study

'EVEN THOUGH I'M NOW AN INTERNE SENSATIO

WANG FUMAN, 8-year-old from China's Yunnan province who became the face of needy Chinese children when a viral photo showed how his hair froze after he trekked 2.8 miles to school in 16°F weather

'BALLISTIC MISSIIF THREAT INBOUN

HAWAII EMERGENCY MANAGEMENT AGENCY, in a Jan. 13 cell-phone alert; a "false alarm" notification went out 38 minutes later

Mars An experiment by Villanova students suggests that hopskey ingredient in beer-would grow well in Martian soil



Venus **Venus Williams** was eliminated on the first day of the Australian Open

'Hey, listen, the world is falling apart,

JANE FONDA, actor, reassuring Howard Stern Show listeners that she was "going to be fine," after revealing that she recently had a cancerous growth removed from her lip

'Now we are an authority without any authority.

MAHMOUD ABBAS, Palestinian Authority President, refusing to negotiate with President Trump after he recognized Jerusalem as Israel's capital

Amount of prize money that will be doled out over the course of the British Royal Ascot racesthe most in the equestrian tournament's history



TheBrief

'THE EFFORT TO PROVIDE BETTER INFORMATION IS ALREADY UNFOLDING OUTSIDE THE FEDERAL GOVERNMENT,' -NEXT PAGE



An electronic sign on Oahu after a text alert erroneously warned of a missile attack

NATIONAL SECURITY

Panic station: Hawaii's false alert exposes weak U.S. alert systems

By W.J. Hennigan

THREE DAYS AFTER HAWAII'S FALSE ballistic-missile alert triggered panic across the islands, causing people to run for cover and family members to issue tearful goodbyes, the Japanese public broadcaster NHK texted out a news alert instructing citizens to seek shelter from an incoming North Korean attack. It too was false.

The incidents brought home more than the perilous state of affairs between the U.S., its allies and North Korea amid rising tensions with the rogue nuclear power. They also exposed how U.S. civil-defense measures designed to limit public panic during crises have deteriorated since the Cold War. And they showed how governments everywhere have yet to adapt to the challenges that

smartphones can pose to public safety in the digital age.

The Hawaiian error was particularly scary. At 8:07 a.m. on Jan. 13, cell phones across the state blared the loud warning sounds usually reserved for imminent life-threatening events, like flash floods. In an accompanying text message, the Hawaii Emergency Management Agency warned that an inbound ballistic missile required citizens to shelter immediately. The alert, the agency said, was "not a drill."

It was a full 38 minutes—the time it would take an actual ballistic missile launched from North Korea to reach Hawaii—before a follow-up message reported that the initial alert was a mistake. The nerve-racking error was later blamed on a state employee who