Earthweek: Diary of a Changing World

Week ending Friday, April 26, 2024 **Hot-Cold Paradox**

The outbreaks of unusually cold and even unseasonable Arctic blasts that have recently chilled people living in the middle latitudes of the Northern Hemisphere are predicted to intensify for the remainder of this decade. despite the ongoing record warming of the Arctic.

Scientists at China's Gwangju Institute of Science and Technology say these Warm Arctic-Cold Continent (WACC) events are "merely the start of a drastic shift" in climate that will only strengthen in the decades ahead.

Climate expert Jin-Ho Yoon says models predict the WACC events will decline sharply after the 2030s, but they will still cause "more severe consequences when they do occur."

Earthquakes



Dozens of aftershocks of eastern Taiwan's destructive magnitude

7.2 quake on April 3 rocked buildings and rattled nerves in the quake-weary region.

• Earth movements were also felt in New Zealand's North Island, northwestern Iran and central Turkey.



plankton, algae and bacteria,

which many marine species

Bowles at Louisiana Univer-

sities and colleagues else-

been a 22% drop in the mi-

croorganisms compared to

Zoe Jacobs at Britain's

drops, but she says the find-

ings are "very concerning."

the 21-year average.

such a decline.

depend upon for food.

A study by Marshall **Dream Songs**-

Argentine scientists say in the lab.

Tillabery,

Niger

Penguin Peri

Climate change is occurring faster than

some emperor penguin colonies in Ant-

arctica can permanently adapt, and a new

study says that record-low sea ice levels

last year contributed to the second-worst

tic Survey say last year's penguin chick

Researchers at the British Antarc-

deaths followed a "catastrophic breeding failure" in 2022.

or more stable sea ice to survive, lead researcher Peter

Fretwell says this is only a temporary solution and the

While some colonies fled to icebergs, ice shelves

year for chick mortality on record.

Based on how vocal muscles move when birds are The study found that al- sleeping, it has long been most three-quarters of the thought that they are dreamglobal ocean surface saw ing about singing during their slumber.

Physicist Gabriel Mindlin National Oceanography Cen- at the University of Buenos tre, who was not involved in Aires and colleagues conthe study, told New Scientist verted the muscle movethat marine ecosystems can ments of several great kisusually recover from brief kadees into songs, and were shocked at how similar they

they have been able to exwhere studied 21 years of tract songs from the minds satellite data and found that of sleeping birds and generby April 2023, there had ate audible versions of them

By Steve Newman

Sinking China

Chinese researchers warn that a quarter of their country's coastal land will sink below sea level within the next century, putting hundreds of millions of people at risk of flooding.

Writing in the journal Nature, they say the subsidence is the result of unbridled groundwater pumping and the sheer weight of buildings being constructed as urbanization increases.

The report also says that nearly half of all major Chinese cities are sinking.

Deadly Heat



-75°

Vostok.

Antarctica

Extreme heat of up to 48.5 degrees Celsius that has caused numerous deaths from

the Sahara to Nigeria in recent weeks was made more acute by greenhouse gas emissions warming the climate, experts say.

"Heat waves with the magnitude observed March and April 2024 in the region would have been impossible to occur without the global warming of 1.2 degrees Celsius to date," the World Weather Attribution academic collaboration said in a report.

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were to real birdsongs.



Experts say that if greenhouse gas emissions continue at current levels

the emperor penguin population will plunge by 99% by 2100. Photo: NOAA