Treaty of Alcacovas: Portugal gives the Canary Islands to Castile in exchange for claims in West Africa

Dred Scott Decision: US Supreme Court rules Africans cannot be **US citizens**

1869

Dmitri Mendeleev presents the first periodic table of the elements to the Russian **Chemical Society**



"Aspirin" (acetylsalicylic acid) patented by Felix Hoffmann at German company Bayer

rms!' Pope urges end on historic Iraq trip

er papal visit to comfort the dwindling Christian communities of amia decimated by years of conflict



by the Iraqi prime minister Mustafa al-Kadhimi upon disembarking from his

Just like Iraq's Christian population, the esoteric Yazidi community was ravaged in 2014 by the Islamic State group's sweep over much of northern Iraq.

'Victory' over death

The trip is the pontiff's first travel abroad since the coronavirus pandemic, in Baghdad, just days after Iraq launched which had left him feeling "caged" in its modest inoculation campaign. Vatican City -- and it has been hailed as a bold choice.

Iraq endured decades of war, is still corruption, misuse hunting for IS cells and is now facing a of his arrival. gard for law," in a second spike of Covid-19 infections, with ranked one of the more than 5,000 new cases and dozens limp, likely a result of a painful bout of y Transparency In- of deaths daily.

Authorities have imposed a full lockinent promoter of down through the papal trip, which than 1,400 kilometres (870 miles) by , also hailed other means Francis will not be greeted by plane and helicopter, flying over areas massive crowds of believers like on other where security forces are still battling IS. nany who have suf- foreign trips.

> seen taking off his mask yesterday to lined with flowers and posters welcomspeak with officials and religious figures ing him warmly as "Baba al-Vatican".



Pope Francis receives flowers from children as he is welcomed by Iraqi President Barham Salih, at **Baghdad's Presidential Palace**



People stand by the road as they wait for Pope Francis

"I'll try to follow directions and not shake hands with everyone, but I don't want to stay too far," Francis said ahead

He was also seen walking with a slight sciatica that he has suffered this year.

Inside the country, he will travel more

For shorter trips, Francis will take an The Pope has been vaccinated and was armoured car on freshly paved roads

Saudi-led coalition says it downed six Houthi drones fired at Khamis Mushait

Reuters | Dubai

The Saudi-led coalition fighting the Houthi group in Yemen said it had intercepted six explosive drones fired towards the kingdom yesterday, with the Houthis claiming to have launched attacks into southern Saudi Arabia since

it intercepts most attacks.

The Houthis fired the six dawn, the coalition said in and five in the afternoon. statements carried by Saudi Ekhbariya TV.

tack targeting safe civilians and Marib region. civilian installations.

the solidarity of Bahrain with tary leaders.



The Iran-aligned Houth- it takes to confront these teris have recently stepped up rorist attacks, calling on the cross-border drone and missile international community to attacks on Saudi cities, mostly pressure the Houthi militia to targeting the southern part of stop these attacks that breach the country. The coalition says international laws and conventions

Houthi military spokesman intercepted drones towards Yahya Sarea said in Twitter Khamis Mushait near the posts yesterday that three Yemen border in attacks since drones had been fired at dawn,

state news agency SPA and ed Nations have renewed peace efforts as fighting has also in-Bahrain condemned the at- tensified in Yemen's gas-rich

On Tuesday, the US Treas-In a statement, the Ministry ury Department imposed new of Foreign Affairs expressed sanctions on two Houthi mili-

Drone aircraft on display in Yemen Saudi Arabia in the measures

The United States and Unit-

Reading aloud of 628-page Covid bill delays debate in US Senate

AFP | Washington

The US Senate finally took families and boosting a cripup the \$1.9 trillion Covid relief package but a brazen halted the process for hours by ploy by opponents -- read- demanding that clerks recite ing the entire 628-page bill every word of the ambitious aloud on the chamber floor plan. -- promptly gummed up the action.

President Joe Biden has pushed hard to get his top legislative priority through Con- thon days that will include up gress, and it narrowly cleared to 20 hours of debate and a the House of Representatives lengthy list of amendments

chamber launching directly passage.

into debating the measure aimed at helping millions of pled economy, Republicans

Republicans already appeared united in opposing the proposal over its high cost, and lawmakers braced for marathat will force contentious But instead of the upper votes before the bill's final

Moving to a green economy is the

biggest challenge the

world has ever faced. I'm

optimistic we can do it, but need to make sure it

benefits everyone—in-

cluding those workers

and communities who

depend on the fossil fuels

that we need to get rid of.

@BillGates

66We must never cease to proclaim in fearless tones the great principles of freedom and the rights of man." Churchill's words in his famous Iron Curtain speech 75 years ago resonate as true today as they did in the postwar era. The UK stands by

@BorisJohnson



We are working with our #COVAX partners to find ways to increase #COVID19 vaccine production, including technology transfer, voluntary licensing and other mechanisms to address production bottlenecks. #VaccinEquity @DrTedros



931 million tons of food went to waste in 2019 - enough to circle the Earth 7 times. Food waste is environmentally, economically & morally outrageous. We must rethink the way we produce and consume.

@antonioguterres

Disclaimer: (Views expressed by columnists are personal and need not necessarily reflect our

editorial stances)

Alien 'super-Earth' may offer clues about atmospheres on distant worlds

Reuters | Washington

o be making

rip and it is a

a land that

tyred for so

turn to the Yazidis,

enseless and brutal

This is an

Cientists have spotted a plan-Det orbiting a star relatively near our solar system that may offer a prime opportunity to study the atmosphere of a rocky Earth-like alien world - the type of research that could aid the hunt for extraterrestrial life.

The researchers said on Thursday the planet, called Gliese 486 b and classified as a 'super-Earth,' is not itself a promising candidate as a refuge for life. It is thought to be inhospitable - hot and dry like Venus, with possible rivers of lava flowing on its surface.

But its proximity to Earth and tology - at least for Earth-like phere with the next generation of Centro de Astrobiología in pheric investigation," said planbased telescopes, starting with stone slab that helped experts of the Max Planck Institute for rocky planet and is thought to own planet a potential indicathe James Webb Space Tele- decipher Egyptian hieroglyphs. Astronomy in Germany, lead scope that NASA has slated for

the Rosetta Stone of exoplane- their atmospheres.



The surface of the newly discovered exoplanet called Gliese 486b, a type of planet known as a "hot super-Earth" is seen in an undated artist's impression

an October launch. These could more than 4,300 exoplanets. in the journal Science. give scientists data to be able Some have been large gas planto decipher the atmospheres ets akin to Jupiter. Others have et with a mass greater than our ity may be 70% stronger than applied, within a few decades, to of other exoplanets - planets been smaller, rocky Earth-like planet but considerably less than Earth's. beyond our solar system - in- worlds, the kind considered our solar system's ice giants Uracluding ones that may host life. candidates for harbouring life, nus and Neptune. Gliese 486 b's "We say that Gliese 486 b but currently available scientific mass is 2.8 times Earth's. will instantaneously become instruments tell us little about

"The exoplanet must have the its physical traits make it well planets," said astrophysicist and right physical and orbital configsuited for a study of its atmos- study co-author José Caballero uration to be suitable for atmosof space-borne and ground- Spain, referring to the ancient etary scientist Trifon Trifonov Scientists have discovered author of the research published

A 'super-Earth' is an exoplan-

surface temperature of Gliese 486 b and its surface gravity may be 70% stronger than Earth's

years - the distance light travels in a year. 5.9 trillion miles (9.5 trillion km) - from Earth, making it among the closest exoplanets. It orbits a 'red dwarf' less luminous than our sun, with about a third the mass.

have a metallic core. Its surface tion of life. temperature is about 800 degrees Fahrenheit (430 degrees atmosphere of Gliese 486 b and Celsius) and its surface grav- other Earth-like planets will be

itable, at least not the way we on the atmospheres of exoplanknow it here on Earth," Trifonov ets that can only be ascribed to It is located in our celestial said. "The planet possibly only extraterrestrial life," Caballero neighbourhood about 26.3 light has a tenuous atmosphere, if any. added.

both scenarios because stellar irradiation tends to evaporate atmospheres, whereas, at the same time, the planetary gravity is strong enough to retain it." Still, Gliese 486 b could prove

Our models are consistent with

ideal for studying the atmosphere of an Earth-like planet using instruments on the James Webb Space Telescope and the future Extremely Large Telescope, an astronomical observatory now under construction in Chile.

The chemical composition of an atmosphere can tell a lot about a planet and its habitastar that is smaller, cooler and bility. Scientists are interested in looking at the combination of gases in the atmospheres of The planet orbits very close Earth-like exoplanets, with a to its home star, leaving it heav- mix of oxygen, carbon dioxide ily irradiated. Like Earth, it is a and methane like that of our

"All that we learn with the the detection of biomarkers or "Gliese 486 b cannot be hab-biosignatures: spectral features