### Hayabusa2 lands on asteroid



Researchers and employees pose for a picture in a control room of the Hayabusa2 mission in Sagamihara, after the touchdown of the probe on an

#### Tokyo, Japan

Japanese probe sent to he said. Acollect samples from an system landed successfully yesterday, scientists said.

fired a bullet into the surface said. to puff up dust for collection Agency (JAXA).

A live webcast of the control room showed dozens of to contain relatively large JAXA staff members nervously amounts of organic matter and monitoring data ahead of the water from some 4.6 billion touchdown before exploding years ago when the solar sysinto applause after receiving a tem was born. signal from Hayabusa2 that it had landed.

touchdown, including firing rial from underneath Ryugu's a bullet" into the Ryugu as- surface, allowing the collecteroid, Yuichi Tsuda, Haya- tion of "fresh" materials unbusa2 project manager, told exposed to millennia of wind reporters.

"We made the ideal touchdown in the best conditions,"

The complicated procedure asteroid 300 million kilo- took less time than expected metres away for clues about and appeared to go without a the origin of life and the solar hitch, said Hayabusa2 mission manager Makoto Yoshikawa.

"I'm really relieved now. It Hayabusa2 touched down felt very long until the moment briefly on the Ryugu asteroid, the touchdown happened," he

He said the firing of the buland blasted back to its holding let -- the first of three planned position, said officials from the in this mission -- "will lead to Japan Aerospace Exploration a leap, or new discoveries, in planetary science."

The asteroid is thought

During a later mission, Hayabusa2 will eventually fire an "We made a successful "impactor" to blast out mateand radiation.

# Syria evacuates women, children from IS holdout

Omar oil field, Syria

s-backed fighters trucked Syria yesterday, eager to press on with the dragging battle to crush the jihadists.

and neighbouring Iraq, and declared a "caliphate", they have the village of Baghouz near the Iraqi border.

Almost 30 trucks carrying the enclave on Friday, AFP correspondents at a position of the Forces outside the village reported.

Most were women and children, their clothes caked in

included men with their faces war or surrender." wrapped in chequered scarves.

Women clung to the railings out civilians from the last of the trucks, while the hair of Wednesday -- mostly women supporting it to make protecting speck of the Islamic State younger girls flew in the wind, and children -- but trucks left group's dying "caliphate" in as they left enclave in the second near empty on Thursday. such large-scale evacuation in three days.

Earlier on Friday, SDF spokes-More than four years after man Mustefa Bali said he hoped foreigners. IS overran large parts of Syria civilian evacuations could be completed by Saturday.

Fellow SDF spokesman Adnan lost all of it but a tiny patch in Afrin said once the evacuations Europeans among them," he had ended, his forces would expel the last jihadists from the less than half a square kilometre men, women and children left (a fifth of a square mile) they teer aid group, said the women status," he said, using an alterstill hold

"When the civilians leave, we very hungry and dirty". US-backed Syrian Democratic will see how many civilians and IS fighters remain inside and what they want to do,' "They will be faced

Human Rights Watch urged The SDF evacuated 3,000 people from the IS pocket on the SDF and the US-led coalition civilians a priority.

"Civilians leaving Baghouz is Bali said that screening had a relief but it should not obscure determined that most of those the fact that this battle appears evacuated on Wednesday were to have been waged without sufficient consideration to their "The majority are Iraqi and wellbeing," the New York-based from countries of the former watchdog's counterterrosim di-Soviet Union, but there are also rector, Nadim Houry said.

"Just because they may be families of ISIS members or David Eubank, the leader of sympathised with them does the Free Burma Rangers volun- not take away their protected native acronym for IS.

Beyond Baghouz, IS retains They included "many a presence in the vast, virtual-French women", as well as ly unpopulated Syrian Desert others from Australia, Ausand sleeper cells elsewhere, tria, Germany and Russia, and continues to claim deadly



11-year-old Syrian girl Rawan poses on a destroyed tank with her stuffed bear near the village of Yazi Bagh, about six kilometres from the Bab al-Salamah border crossing between Syria and Turkey in the north of Aleppo province,

## Giant tortoise thought extinct is found on Galapagos



A specimen of the giant Galapagos tortoise Chelonoidis phantasticus, thought to have gone extint about a century ago, is seen at the Galapagos National Park on Santa Cruz Island in the Galapagos Archipelago, in the Pacific Ocean 1000 km off the coast of Ecuador

### **Quito, Ecuador**

**▼**onservationists in the Gal-→ apagos Islands have found a giant tortoise from a species thought to have become extinct more than a century ago.

The adult female tortoise was found on the island of Fernandina in the west of the Pacific archipelago, and is believed to be a Fernandina Giant Tortoise, also known as Chelonoidis phantasticus, a species last sighted in 1906.

The tortoise is believed to be about 100 years old. It was taken by boat to the main Galapagos conservation center on Santa Cruz island.

The animal "exceeds 100 vears" in age and is "a very old tortoise," said Washington Tapia of Galapagos Conservancy, a US non-profit dedicated to conserving the Galapagos.

The islands are best known for their unique flora and fauna, which inspired naturalist Charles Darwin to write his landmark 1859 study on evolution, The Origin of Species.

Ecuador's Environment Minister Marcelo Mata announced on Twitter the discovery of a specimen "of the tortoise spe- species is native to Fernandina, extinct more than 100 years ago."

A ministry statement said conthe island, judging by tracks and already vanished. spores they found.

indeed a member of the long-lost researchers said. species, it said.

The Chelonoidis phantasticus ities announced the discovery their longevity.



and children trucked out were



One of 15 known species of giant tortoises in the Galapagos, at least two of which have already vanished

cies Chelonoidis phantasticus, which is uninhabited, topped by which was believed to have gone an active volcano, and one of the by invasive species such as rats, youngest islands in the chain.

servationists were hopeful other of giant tortoises in the Galapmembers of the species were on agos, at least two of which have stroved their habitat.

Genetic tests will be carried tortoises may be separated from years. Scientists have discovered out to confirm the tortoise was each other by recent lave flows, that the tortoises have genetic

of a new species of tortoise that they called Chelonoidis donfaustoi, named after Fausto Llerena, the park ranger who for 40 years looked after Lonesome George, the iconic last tortoise of his Pinta species, who died in 2012.

George become an icon of the islands, 1,000 kilometers (600 miles) off the coast of South America.

Scientists tried to save George's species by breeding him with females from a related species, but their eggs failed to natch. After his death, his body was stuffed and is currently displayed at the Charles Darwin Research Center in the Galap-

Giant tortoises are believed to have arrived on the remote volcanic island chain about three to four million years ago, borne by ocean currents. With no natural predators, they spread across the islands and split into different species.

Their numbers were decimated in the eighteenth and nineteenth centuries by sailors who took advantage of their ability to endure long periods without food or water to use them as easily stored fresh meat on Pacific voyages.

Their numbers were also hit pigs and dogs, which eat their It is one of 15 known species eggs, while other introduced domestic animals like goats de-

In captivity, the giant tortoises Any remaining Fernandina can easily live to more than 100 variants linked to DNA repair, In 2015, the Galapagos author- with healing power that enables