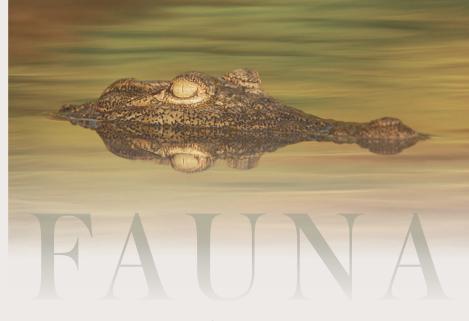


FAUNA

ARAMCOWORLD.COM





Written by RICHARD HOATH

In a remote reach of the Sahara, near Egypt's western border with Libya, it takes a scramble across dunes, scree and a cliff to reach the cave of Foggini-Mestikawi.

ore an alcove in a rock wall, it is adorned with the 8,000-year-old rock art of the people and the animals they lived with and preyed upon: giraffes, ostriches, antelopes and gazelles, curiously headless lions, and handprints and depictions of the humans who painted them.

That was before the climate warmed and dried. The people moved east, to where the water was: the Nile Valley. Some 5,000 years ago, King Menes united the peoples of Upper and Lower Egypt, and the rest is quite literally history—which is also natural history.

People in pharaonic Egypt continued to depict their animals, wild and domestic, with unprecedented accuracy. Animals were farmed, and they were also deified. There was Thoth, represented by the Sacred Ibis and the Sacred Baboon—both species now extinct in modern Egypt. There was Sobek, the crocodile god of fertility and the Nile, and there was Horus, the falconheaded god: In the temple of Kom Ombo, in Upper Egypt, the two were, uniquely, celebrated together.

Today the Nile crocodile is limited to the human-made confines of Lake Nasser. But in the air, still widely resident are the raptors: the Kestrel, the Lanner, Sooty and Barbary falcons. There is also the Saker, renowned for its size and hunting prowess, that has been so extensively captured that it is now endangered. Dozens of species of other birds pass through: Each spring and fall, the greater Middle East plays host to birds by the millions as they make their way back and forth from breeding lands across Europe and Asia and wintering grounds in Africa.

It is not just birds that migrate. The waters of the Red Sea support some of the richest marine environments on the planet. The coral reefs equate, in terms of biodiversity, to tropical rainforests, and sea turtles, including loggerhead and green turtles, breed in the region. At the Ra's al-Jinz Reserve in easternmost Oman, female green turtles haul themselves ashore at night to lay their eggs after years at sea. It is a moving experience to witness: No flash photography or mobiles are allowed, but in 2015, with my own pencil and paper, I was permitted to sketch with rapt impunity.

Like the Sahara, much of the Arabian Peninsula

above the water might seem an austere, even lifeless, biome. But there are myriad species there, many of whose names stem from Arabic—jirds, gerbils, jerboas and more. Among the rare larger denizens, perhaps the rarest is the

Arabian oryx, a species recently brought back from the brink of extinction.

Half a century ago, this antelope of only the most extreme of deserts was reduced to a handful of individuals. Since 1972 it has been gradually reintroduced in protected areas such as Jiddat al-Harasis in Oman, Al Reem Biosphere Reserve in Qatar and several reserves in Saudi Arabia. Though large and white with dark, nearly straight horns, it is so elusive in the shimmering desert that the oryx, with its long, slender horns, may have been one of the origins of the legend of the unicorn.

Whether on land, in the sea or in the air, where there are fauna, there are predators, often in addition to human hunters. Where there are oryx, there are jackals; where there are markhors there are snow leopards, and where there are tigers there are sambars and sikas. There were cheetahs too, once widespread in the Middle East but now reduced to only a few in the wild, in Iran. But cats were worshipped in pharaonic Egypt as the lioness Sekhmet and also as the cat goddess Bastet. In Sumeria the King Gilgamesh was portrayed embracing the lion. On the Arabian Peninsula today, the leopard endures, clinging to the remote reaches of the southern mountains.

Perhaps the best-adapted of desert predators are the foxes. Within Arabia there are there are Blanford's foxes, red foxes and Rüppell's sand foxes, but from Morocco to the Sinai Peninsula, the "poster

> species" is the fennec fox, which appears on the cover of this calendar. You would be lucky to see one, but after a night out under the desert skies, on the sandy ground crisscrossed by the tracks of numerous nocturnal visitors, perhaps among

them you would find those of the fennec.

Today, everywhere, our natural environments are threatened by climate change, habitat loss and the human footprint. Many fauna painted in the Foggini-Mestikawi cave have disappeared. Yet rejuvenations of species and increases in habitat protections by conservation-minded organizations continue to offer hope. The managed population of the Arabian oryx, the protection of the green turtles, and the recent reintroduction of the cheetah into Kuno National Park, India, are examples worth following. The November 2022 United Nations Climate Change Conference in Sharm El-Sheikh, Egypt, gives opportunities for global attention to invigorating environmental resurgences. \oplus

RICHARD HOATH is the author and illustrator of *A Field Guide to the Mammals of Egypt* and writer of the recently published *The Birds of Egypt and the Middle East*. He is a leading naturalist, ornithologist and long-time resident of Egypt who has traveled throughout the Middle East in search of varied, wonderful and elusive wildlife. He is on the faculty of The American University in Cairo.

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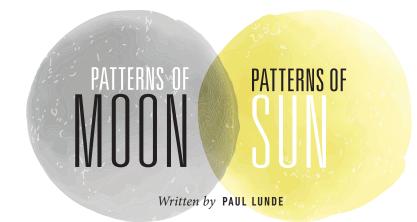
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ON THE COVER Smaller than a house cat, a fennec fox peers over a sand hill in Tunisia. Its large ears both dissipate heat and help give fennecs keen hearing to home in on rodents. Though internationally protected, fennecs are often trapped and sold as exotic pets.

Cover photo by Bruno D'Amicis / Naturepl.com Above: Lorraine Bennery / Naturepl.com



THE HIJRI CALENDAR

In 638 CE, six years after the death of the Prophet Muhammad, Islam's second caliph, 'Umar, recognized the necessity of a calendar to govern the affairs of Muslims. This was first of all a practical matter. Correspondence with military and civilian officials in the newly conquered lands required dating. Pre-Islamic Arab customs identified years after the occurrence of major events. But Persia used a different calendar from Syria, where the caliphate was

later based; Egypt used yet another. Each of these calendars had a different starting point, or epoch. The Sasanids, the ruling dynasty of Persia, used the date of the accession of the last Sasanid monarch. Yazdagird III, June 16, 632 CE. Syria, which until the Muslim conquest was part of the Byzantine Empire, used a form of the Roman Iulian calendar, with an epoch of October 1, 312 BCE. Egypt

used the Coptic calendar, with an epoch of August 29, 284 CE. Although all were solar calendars, and hence geared to the seasons and containing 365 days, each also had a different system for periodically adding days to compensate for the fact that the true length of the solar year is not 365 but 365.2422 days.

In pre-Islamic Arabia, other systems of measuring time had been used. In South Arabia some calendars apparently were lunar, while others were

lunisolar, using months based on the phases of the moon but intercalating days outside the lunar cycle to synchronize the calendar with the seasons. On the eve of Islam, the Himyarites appear to have used a calendar based on the Julian form, but with an epoch of 110 BCE. In central Arabia the course of the year was charted by the position of the stars relative to the horizon at sunset or sunrise, dividing the ecliptic into

IT IS HE WHO MADE THE SUN TO BE A SHINING GLORY, AND THE MOON TO BE A LIGHT (OF BEAUTY): AND MEASURED OUT STAGES FOR HER. THAT YE MIGHT KNOW THE NUMBER OF YEARS AND THE COUNT (OF TIME).

> -0UR'AN 10:5 (ENGLISH BY YUSUF ALI)

to the location of the moon on each successive night of the month. The names of the months in that calendar have continued in the Islamic calendar to this day and would seem to indicate that before Islam, some sort of lunisolar calendar was in use, though it is not known to have had an epoch other than memorable local events.

28 equal parts corresponding

There were two other reasons 'Umar rejected

existing solar calendars. The Qur'an, in Chapter 10, Verse 5, states that time should be reckoned by the moon. Not only that, calendars used by the Persians, Syrians and Egyptians were identified with other religions and cultures. He therefore decided to create a calendar specifically for the Muslim community. It would be lunar, and it would have 12 months, each with 29 or 30 days.

This gives the lunar year 354 days, 11 days fewer

than the solar year. For the epoch of the new Muslim calendar, 'Umar chose the Hijra, the emigration of the Prophet Muhammad and 70 Muslims from Makkah to Madinah, where Muslims first attained religious and political autonomy. Hijra thus occurred on 1 Muharram of the year 1 according to the Islamic calendar, which begins the *hijri* era. (This date corresponds to July 16, 622 CE, on the Gregorian calendar.) Today in the West, it is customary, when writing hijri dates, to use the abbreviation AH, which stands for the Latin anno hegirae, "vear of the Hijra."

Because the Islamic lunar calendar is 11 days shorter than the solar, it is therefore not synchronized to the seasons. Its festivals, which fall on the same days of the same lunar months each year, make the round of the seasons every 33 solar years. This 11-day difference between the lunar and the solar year accounts for the difficulty of converting dates from one system to the other.

THE GREGORIAN CALENDAR

The early calendar of the Roman Empire was lunisolar, containing 355 days divided into 12 months beginning on January 1. To keep it more or less in accord with the actual solar year, a month was added every two years. The system for doing so was complex, and cumulative errors gradually misaligned it with the seasons. By 46 BCE, it was some three months out

of alignment, and Julius Caesar oversaw its reform. Consulting Greek astronomers in Alexandria, he created a solar calendar that added one day to February every fourth year, effectively compensating for the solar year's length of 365.2422 days. This Julian calendar was used throughout Europe until 1582 CE.

In the Middle Ages, the Christian liturgical calendar was grafted onto the Julian one, and the computation of lunar festivals like Easter, which falls on the first Sunday after the first full moon after the spring equinox, challenged some of the best minds in Christendom. The use of the epoch 1 CE dates from the sixth century CE, but did not become common until the 10th century.

The Julian year was nonetheless 11 minutes and 14 seconds too long. By the early 16th century, due to the accumulated error, the spring equinox had begun falling on March 11 rather than where it should, on March 21. Copernicus, Christophorus Clavius and the physician Aloysius Lilius provided the calculations, and in 1582 Pope Gregory XIII ordered that Thursday, October 4, 1582, would be followed by Friday, October 15, 1582. Most Christianized kingdoms accepted the new "Gregorian" calendar, but it was not adopted in England and the Americas until the 18th century. Its use today is common worldwide. The Gregorian year is nonetheless 25.96 seconds ahead of the solar year, which by the year 4909 will add up to an extra day.

The late PAUL LUNDE was a senior research associate with the Civilizations in Contact Project at Cambridge University and author of more than 70 articles for AramcoWorld.

CONVERTING YEARS AND DATES

Online calculators can be found by searching "Gregorian-hijri calendar calculator" or similar terms. The following equations show how the conversion is made mathematically. However, keep in mind that in each case, the result is only the year in which the other calendar's year begins. For example, 2023 Gregorian begins in 1444 hijri and ends in 1445; correspondingly, 1445 hijri begins in 2023 Gregorian and ends in 2024.

GREGORIAN YEAR TO HIJRI YEAR = [(32 x Hijri year) ÷ 33] + 622

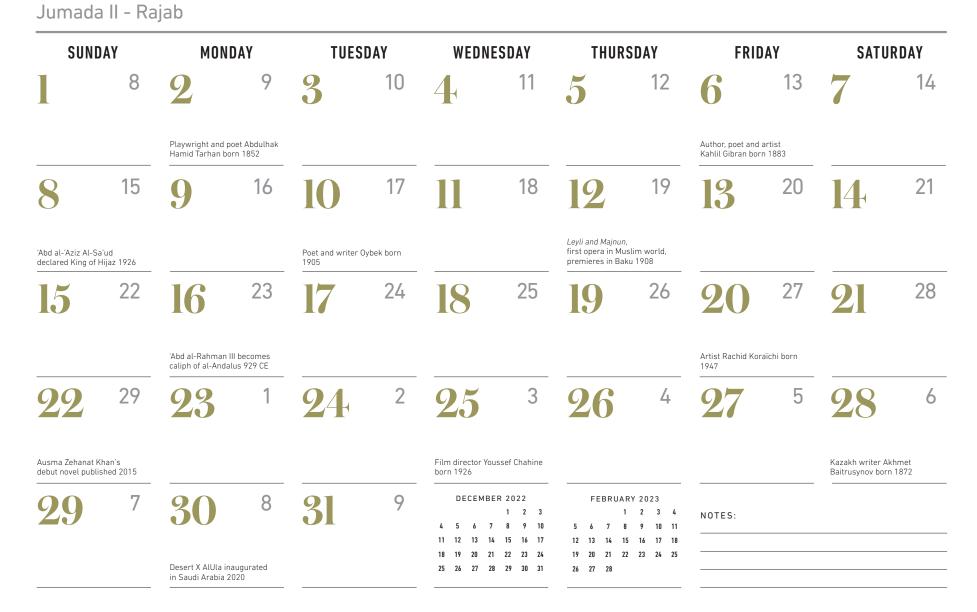
HIJRI YEAR TO GREGORIAN YEAR = [(Gregorian year - 622) x 33] ÷ 32



MARKHOR (*Capra falconeri*) Also known as the screw-horned goat, the markhor is the national animal of Pakistan. Its name may be derived from the Persian for "snake-eater," and while it is known to kill and eat serpents, its spiral horns also resemble coiling snakes. The markhor is a mountain herbivore with keen senses of smell and sight.

-PHOTO BY JOEL SARTORE / PHOTO ART

Habitat range: Central Asia Conservation status: Near threatened





RRUAR

NILE CROCODILE (Crocodylus niloticus and Crocodylus suchus) Recent research has shown that the sacred crocodile of ancient Egypt that was worshiped as the god Sobek was actually two distinct species whose appearances are similar enough that the distinction has been only recently recognized. C. niloticus is the largest crocodile on the African continent, growing up to 5 meters in length and living for 50 to 80 years. It can be very aggressive, but it was the somewhat smaller and less aggressive C. suchus that was most often used in ceremonies and mummified. For all their ferocity, the one animal Nile crocodiles avoid when sharing the same habitat is the much larger hippo.

Habitat range: Freshwater in Egypt, Sudan, South Sudan, Ethiopia and 22 other countries in Africa Conservation status: Least concern

SUNDAY		MONDAY		TUESDAY		WEDNE	SDAY	THURSDAY 2 ¹¹		FRIDAY 3 12		SATURDAY	
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Rajab - Sha`aban





SAKER FALCON (*Falco cherrug***)** The family of Falconidae includes more than 60 species, and some of the earliest known human depictions of falcons date back 3,500 years in Mesopotamia. Saker falcons are one of the largest and most efficient hunters, and these qualities make them prized for sport falconry—leading to high levels of capture. This together with hazards from live power lines have reduced Saker populations in the wild to critical numbers. This photo shows a Saker nest in the steppe of Mongolia, where in addition to natural-nest protections, more than 5,000 artificial nesting sites have been erected to help preserve Sakers in the region where they remain most prevalent. —PHOTO BY BRENT STIRTON / GETTY IMAGES

Habitat range: Southern and Central Asia, Central and Eastern Europe, Arabian Peninsula, North Africa Conservation status: Endangered

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				Emin Pasha, Otto of German origin						UK street artist Ti wins Alhambra A		9 10 11 12 16 17 18 19	2 13 14 15



APRIL Ramadan - Shawwal **FENNEC FOX (Vulpes zerda)** Fennecs are the smallest of the Canidae family, which includes not only other foxes but also coyotes and dogs. Their large ears serve both to dissipate heat and to help fennecs hear prey even underground. Eating anything from fruits, roots and leaves to rodents, fennecs can go without water indefinitely as they obtain hydration from their food. While fennecs are not presently endangered, trade in them is regulated and protected internationally under the Convention on the International Trade in Endangered Species.

-PHOTO BY BRUNO D'AMICIS / NATUREPL.COM

Habitat range: Northwest Africa to the Sinai Peninsula Conservation status: Least concern

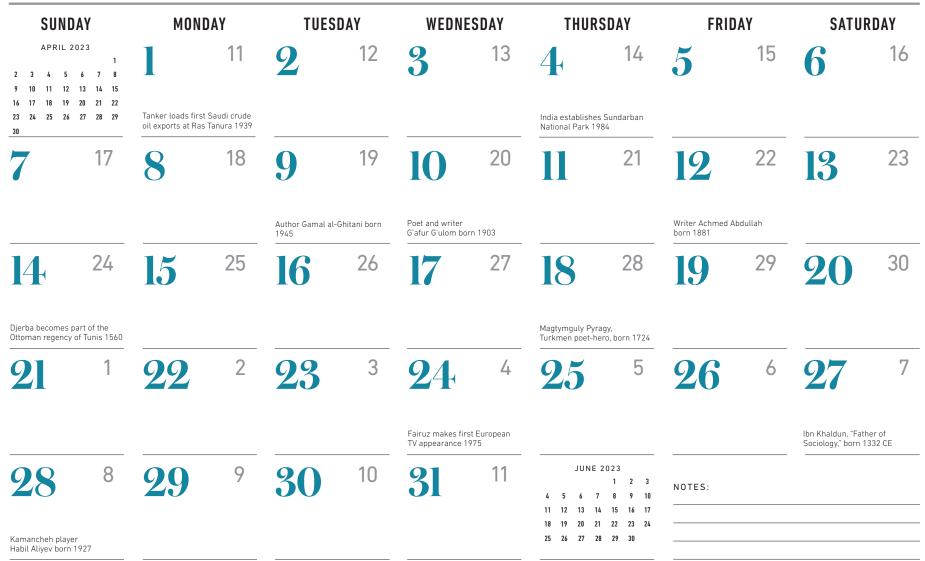
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30	10					Literary figure Ğa born 1886 	abdulla Tuqay						





SPINNER DOLPHIN (Stenella longirostris) While the species name is Latin for "long beak," the name "spinner" came from its leaps and spins above water. Spinner dolphins ply deep tropical waters around the world, including the Red Sea, where this photo was taken. While trade in live spinners is regulated in many countries, threats to spinner populations come mainly from purse-seine tuna fisheries in which spinners become bycatch, often in large numbers. — PHOTO BY PASCAL KOBEH / NATUREPL.COM

Habitat range: Worldwide in temperate and tropical waters Conservation status: Least concern







SNOW LEOPARD (*Panthera uncia*) Genetically related more to the tiger (*Panthera tigris*) than to the leopard (*Panthera pardus*), the snow leopard inhabits the highlands and mountains, usually from 3,000 to 4,500 meters in altitude, in 12 Central Asian nations. Everywhere it is also regarded as a symbol and talisman of history, heritage and identity. Extremely elusive to humans, this photo was made using a motion-triggered camera set along the Uchkol River in eastern Kyrgyzstan.

Habitat range: Mountains of Central Asia Conservation status: Vulnerable

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		King Roger, a Sicilian opera, debuts 1926				Citadel of Erbil recognized on World Heritage List 2014							
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ARABIAN ORYX (*Oryx leucoryx*) The largest of the Arabian Peninsula's desert mammals, the oryx has been praised by poets for its grace and beauty. Its Arabic name, *maha*, references its wide, beautiful eyes, and the word is also a common name among women in the region. In the sandy wild, the oryx's white coat reflects the sun with little to no glare, which makes it hard for humans to spot oryx in the desert even from as near as 100 meters. Capable of smelling rain up to 80 kilometers away, oryx can survive in what may seem like impossibly dry terrain. Once hunted to near extinction, since the 1970s conservation efforts by several countries have restored stable population levels, which still total under 1,000 individuals.

Habitat range: Southern Levant and Arabian Peninsula Conservation status: Vulnerable

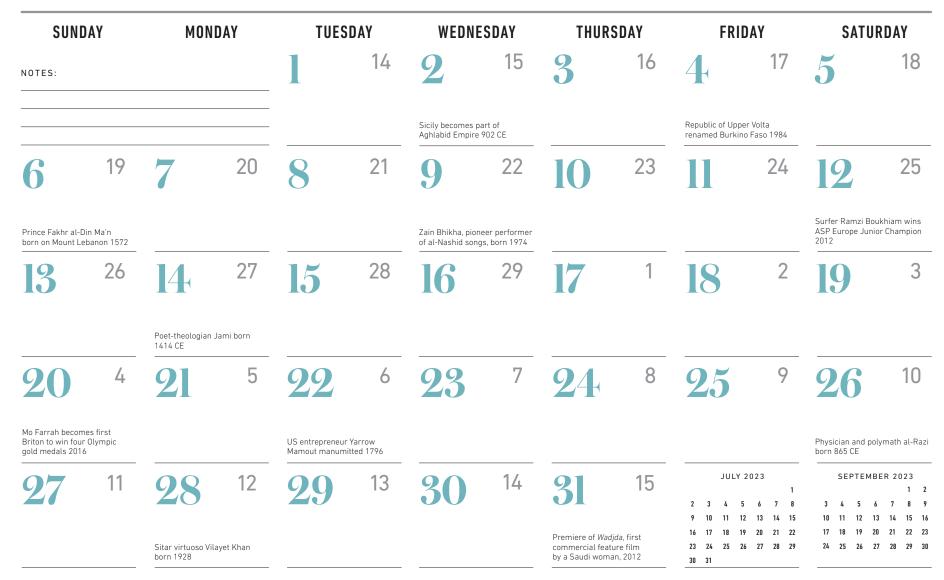
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AUGUST Muharram - Safar

AKHAL-TEKE HORSE (Equus ferus caballus) Renowned for speed, agility and intelligence, the Akhal-Teke is one of the world's oldest breeds. Its name comes from the region of Akhal, in what is now Turkmenistan, and a southern Turkmen tribe historically associated with it, Teke. The Akhal-Teke is also sometimes referred to as "the golden horse" due to the way sunlight appears to shimmer off its coat. Turkmenistan today celebrates the Akhal-Teke on its national emblem as well as on banknotes and stamps. Now a rare breed, its worldwide population is estimated at fewer than 7,000. —PHOTO BY AIGERIM DENGELBAYEVA

Habitat range: Central Asia Conservation status: Vulnerable



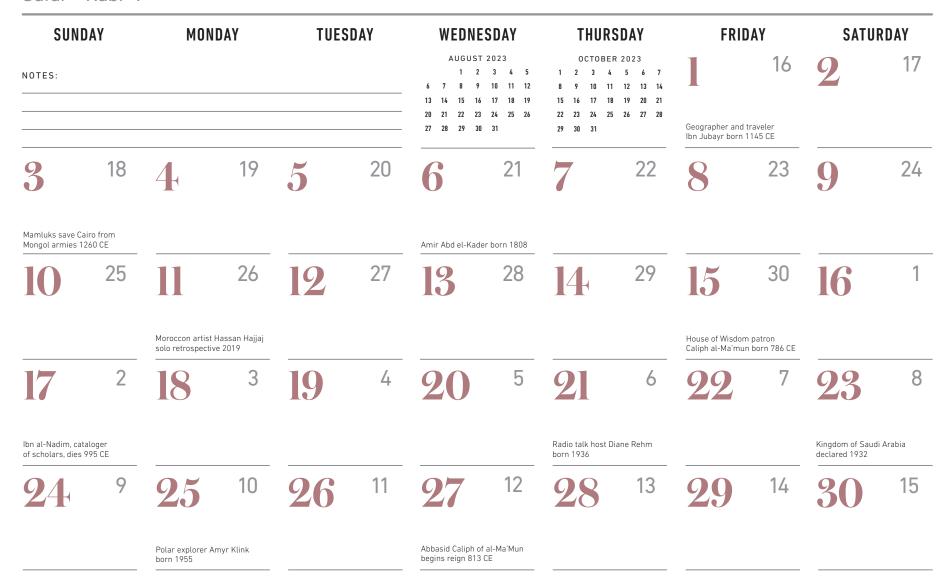


SEPTEMBER

ZANZIBAR COLOBUS (*Piliocolobus kirkii*) One of 17 species of colobus monkeys that range across Central and Southern Africa, *P. kirkii* is native to the East African archipelago of Zanzibar, where like most other colobus species, it is endangered by poaching and habitat loss. As herbivores, colobus monkeys are prolific dispersers of seeds, which proves vital to keeping the forests where they reside healthy.

-PHOTO BY DAVID PATTYN / NATUREPL.COM

Habitat range: Zanzibar, Tanzania Conservation status: Endangered





OCTOBER Rabi` I - Rabi` II

SUMATRAN TIGER (*Panthera tigris sondaica*) Though they are the smallest species of tigers, Sumatran tigers can still grow up to two meters and weigh 140 kilograms. As ambush hunters—mostly at night—they can sprint up to nearly 100 kilometers an hour. While Indonesia has established several protected reserves in tiger habitats, poaching, logging and agriculture all threaten its survival. —PHOTO BY EDWIN GIESBERS /NATUREPL.COM

Habitat range: Sumatra, Indonesia Conservation status: Critically endangered



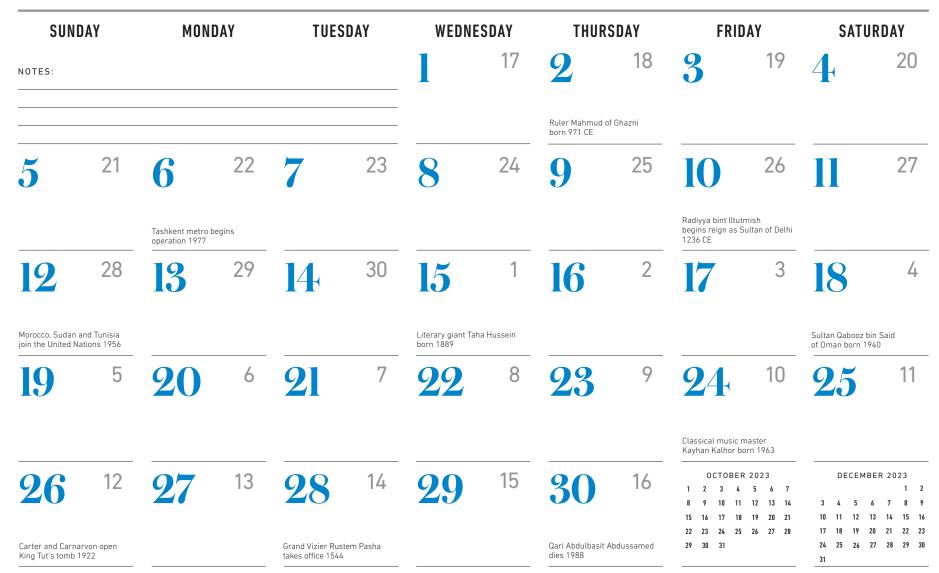


NOVENBER Rabi` II - Jumada I

INDIAN OCEAN ORIENTAL SWEETLIPS (*Plectorhinchus vittatus*) Often seen near a coral reef alone or in a small groups, oriental sweetlips can grow to be as long as 86 centimeters. They are docile in the presence of divers and often traded for use in large aquariums. They feed at night, and the fleshy lips that inspired their name help them search through sand for food.

-PHOTO BY GEORGETTE DOUWMA / NATUREPL.COM

Habitat range: Coastal Indian Ocean from East Africa to Western Oceania Conservation status: Least concern



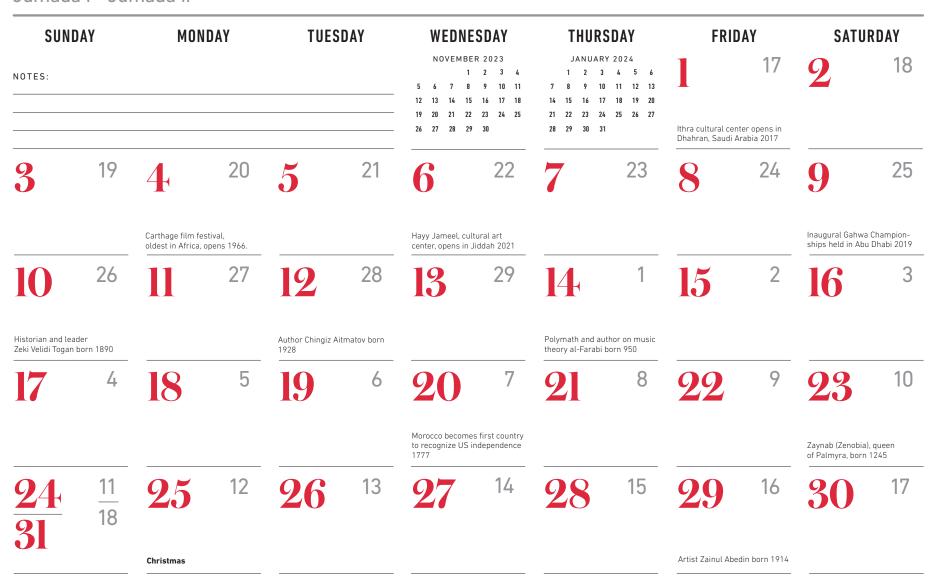


DECENBER Jumada I - Jumada II

LOGGERHEAD SEA TURTLE (*Caretta Caretta*) Named for its large head, it has powerful jaws that can crush hard-shelled prey. This photo was made in Oman, where in addition to loggerheads, four of the world's other six species of sea turtles come ashore to breed—some in protected areas and others on unprotected beaches. They can grow to over a meter long, and at sea they are vulnerable to incidental capture in purse-seine fishing nets.

-PHOTO BY ORIOL ALAMANY / NATUREPL.COM

Habitat range: Worldwide, temperate and tropical waters Conservation status: Endangered



Discover with us

In November 1949 the Arabian American Oil Company (Aramco) published the first issue of an interoffice newsletter named Aramco World. Over the decades that followed, as the number of Americans working with Saudi colleagues in Dhahran grew into the tens of thousands, Aramco World grew into a bimonthly educational magazine whose historical, geographical and cultural articles helped those employees and their families appreciate new lands and cultures.

Today, you can experience AramcoWorld through digital and print media. Its mission remains education and the fostering of mutual appreciation among interconnected cultures. Online find our events calendar, book reviews, learning resources, video channel and more than 1,000 archived, indexed feature articles, from 1960 to now. All can be downloaded without charge, and selected photographs are also available royalty free at photoarchive.aramcoworld.com.



























