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GENTLE.NEWS

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"Learn to value yourself, which means: fight for your happiness."

— Ayn Rand

Satellites Help Scientists Map Earth's Farmland From Space

Scientists are using satellites to make amazing maps of farms around the world. These maps show where crops grow and how much water farmers use. The goal is to help feed people everywhere on Earth.

A big team of researchers met recently in Arizona. They came from universities and science centers across America. Together, they shared new ideas and celebrated their work. It was a wonderful gathering of bright minds.

The project is funded by NASA, the space agency. Scientists use special cameras on satellites high above Earth. These cameras can spot farm fields from hundreds of miles up. The pictures are incredibly detailed and clear.

Computers and smart technology help study all the images. The maps show farms as small as a city block. Scientists can track how farming changes from year to year. This helps leaders make smart choices about food and water.

Over ten years, this team has made truly great progress. Their maps now cover the entire planet. This work helps make sure there is enough food and water for everyone. It is science working hard for all of us.

Source: U.S. Geological Survey

Hubble Telescope Finds Nature's Own Magic Magnifying Glass

Have you ever used a magnifying glass to see something small? Nature has its own version in outer space. It is called a gravitational lens. Scientists are very excited about this discovery.

A gravitational lens forms when a galaxy floats between us and a faraway star system. The galaxy's gravity bends light around it. This makes the distant galaxy look bigger and brighter. It works just like the lens in a magnifying glass.

NASA's Hubble Space Telescope has been photographing these special lenses. Hubble has been orbiting Earth for 35 years. It has taken thousands of beautiful space pictures. These gravitational lens photos are some of the most stunning.

Now a brand new telescope is getting ready to launch. It is called the Nancy Grace Roman Space Telescope. Scientists are using Hubble's lens pictures to plan Roman's future work. Roman will be able to study even more of these cosmic magnifiers.

These discoveries help us understand how the universe works. Each gravitational lens gives us a window into the distant past. Light from these far galaxies traveled billions of years to reach us. The universe is full of wonderful surprises still waiting to be found.

Source: NASA

Scientists Capture the Fastest X-ray Flashes Ever Seen

Scientists in California have made an amazing discovery. They created the shortest bursts of X-ray light ever recorded. These tiny flashes happen faster than we can imagine.

How fast are these flashes? Each one lasts only a few hundred atto-seconds. One attosecond is a billionth of a billionth of a second. Nothing in everyday life moves that quickly.

The discovery happened at a special lab called SLAC. It is run by the U.S. Department of Energy. The team there worked for many years to achieve this goal. Their results were published in a top science journal.

These super-fast X-ray flashes are very useful. They let scientists take pictures of tiny electrons moving inside atoms. Think of it like a camera so fast it can freeze a hummingbird's wings. Now scientists can see things that were once invisible.

One scientist on the team said the hardest part was proving it worked. Creating the flashes was one challenge. Measuring how short they were was even harder. Now that both have been done, scientists around the world can use this amazing tool to explore the smallest building blocks of our universe.

Source: SLAC National Accelerator Laboratory

Rare Hybrid Crabs Surge in Alaska's Cold Waters

Scientists have made a surprising discovery in the Bering Sea near Alaska. Two types of crabs have been mixing together to create rare hybrid crabs. These are crabs that are part snow crab and part Tanner crab.

For a long time, these hybrid crabs were very uncommon. But recently, their numbers have grown in a big way. Scientists found 13 times more hybrid crabs than before. That is a truly remarkable change in the ocean.

Researchers believe this happened after the snow crab population dropped sharply a few years ago. With fewer snow crabs around, the hybrid crabs had more room and food to thrive. Nature found a way to fill the gap.

Tanner crabs also grew to record numbers at the same time. Scientists say Tanner crabs do well in warmer water. So they naturally flourished as conditions changed in the sea. It was a wonderful surprise.

Scientists used special computer models to understand all of this. Their findings were published in a top science journal. The ocean is always full of surprises. This discovery reminds us how clever and adaptable nature can be. Researchers will keep watching these fascinating crabs with great interest.

Source: NOAA Fisheries

New Skin Patch Makes Menopause Treatment Easier

Good news for women going through menopause. A new, more affordable treatment is now available in the United States.

The U.S. Food and Drug Administration has approved a new hormone patch for women. This patch helps ease the discomfort that menopause can bring. It also helps protect bones from becoming weak.

The patch is worn on the skin and changed just once a week. That makes it much easier than taking a pill every single day. Many women find a weekly patch simpler to remember and use.

This new patch works the same as a trusted brand that doctors have prescribed for years. But it costs less money. That means more women can afford to get the help they need.

A doctor at the FDA shared why this matters. "Once-weekly dosing can make a real difference in how patients manage their care," he said. "A patch offers a convenient alternative to daily oral medications." Women should always talk to their own doctor to find out if this treatment is right for them.

Source: U.S. FDA

Activity Time - Word Search

Find the words below in the puzzle. Words go across or down only.

Words to Find:

HUBBLE TANNER PULSE WATER

LASER OCEAN CRAB

Z	M	M	V	S	H	C	R	A	B	O
K	K	W	I	T	V	H	N	N	O	H
B	W	G	D	E	H	C	D	R	L	U
T	A	N	N	E	R	R	Z	O	A	B
Q	Z	E	W	Y	T	O	F	C	S	B
J	P	L	X	D	G	V	Y	E	E	L
L	U	W	L	X	Y	G	R	A	R	E
I	L	A	W	P	S	C	P	N	G	L
H	S	T	B	N	B	E	F	N	F	X
X	E	E	K	F	O	C	B	E	Q	D
C	J	R	P	X	V	H	X	L	B	J