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Inside C2

# Southern DAILY

Make Today Different

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## Ukraine leader hints at compromise as Russian forces pummel capital

LVIV, Ukraine/KYIV, March 15 (Reuters) - Russian air strikes and artillery fire smashed into buildings in the Ukrainian capital Kyiv on Tuesday as invading forces tightened their grip, while a convoy of civilians headed out of the besieged port city of Mariupol for safer parts.

At least five people were killed in the bombardments on Kyiv on the 20th day of the Russian assault, authorities said. Buildings were set ablaze and people were buried under the rubble.

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Despite the danger, the leaders of Poland, Slovenia and the Czech Republic arrived in the city in a show of solidarity with its people.

Evacuations of civilians from cities under assault from Russian forces gathered pace. About 2,000 cars managed to leave the port city of Mariupol and a similar number were waiting to follow, the local council said.

But a convoy with supplies for Mariupol, whose residents have been sheltering from repeated Russian bombardments and are desperate for food and water, was stuck at nearby Berdyansk, Deputy Prime Minister Iryna Vereshchuk said.

Talks between Russian and Ukrainian delegations via a video link resumed on Tuesday. Ukrainian officials played up hopes the war could end sooner than expected, saying Moscow may be coming to terms with its failure to impose a new government on Kyiv by force.

In a hint of compromise, Ukrainian President Volodymyr Zelenskiy said Kyiv was prepared to accept security guarantees that stop short of its long-term objective of membership of the NATO alliance, which Moscow opposes.

NATO chief Jens Stoltenberg announced its members' leaders would meet in Brussels on March 24 to discuss the invasion and show support for Ukraine.

"At this critical time, North America & Europe must continue to stand together," Stoltenberg said.



U.S. President Joe Biden will attend, the White House said.

"STOP THE TRAGEDY"

Prime Ministers Mateusz Morawiecki of Poland, Petr Fiala of the Czech Republic and Janez Jansa of Slovenia travelled by train to Kyiv, the first foreign leaders to make such a visit since Russian President Vladimir Putin ordered the invasion on Feb. 24.

"We must stop the tragedy that is happening in the East as soon as possible," Mateusz Morawiecki wrote on Facebook.

Their visit was a symbol of Ukraine's success so far in fending off an assault that Western countries believe was aimed at seizing the city weeks ago.

About half of Kyiv's 3.4 million population has fled and residents are spending nights sheltering in metro stations.

Two powerful explosions rocked Kyiv before dawn on Tuesday and tracer fire lit up the night sky. An apartment block was in flames after being struck by artillery.

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Sitting on the ground outside, Igor Krupa said he survived because he had slept under a makeshift shelter of furniture and metal weights.

"All the windows went out and all the debris went into the apartment," he said.

But despite reducing parts of cities to rubble, Russian forces have failed to capture any of Ukraine's 10 biggest cities.

Rescuers remove debris from a residential building damaged by an airstrike in Kharkiv  
Rescuers work next to a residential building damaged by shelling in Kyiv  
Rescuers work next to a residential building damaged by shelling in Kyiv

Rescuers work next to a residential building damaged by shelling, as Russia's attack on Ukraine continues, in Kyiv, Ukraine, in this handout picture

released March 15, 2022. Press service of the State Emergency Service of Ukraine/Handout via REUTERS

Still, hundreds of civilians have been killed and nearly 3 million people, mostly women and children, have fled Ukraine for safety in neighbouring countries. Zelenskiy said on Tuesday that 97 children had died so far in the invasion.

On the Romanian border, a woman named Tanya said she had fled the southern frontline town of Mykolaiv to save her child. "Because the people that are there now are Russians, Russian soldiers, and they kill children."

POSITIVE SIGNS

Zelenskiy, who has won admiration in the West for his leadership under fire, called on Russian troops to surrender.

"You will not take anything from Ukraine. You will take lives," he said in a video message. "But why should you die? What for? I know that you want to survive."

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# WEA LEE'S GLOBAL NOTES

03/15/2022

## Millions Of Refugees On Their Way To Escape



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More than three million Ukrainians have fled their hometowns to Poland and nearby countries. This is the largest refugee wave since World War II. It is also testing the resilience of NATO and the EU to this Russia-Ukraine conflict and the reorganization of the future world map.

When Putin decided to launch the war on Ukraine, he did not expect the fierce

resistance of the people of Ukraine. His isolated situation is getting worse and more difficult due to the boycott of the United States and western countries. International enterprises are withdrawing one after another. The pressure on their economy will definitely hurt the Russians.

According to political observers, President Putin is no longer paying attention

to his social and economic problems. Instead, he is trying to pursue the glory of the past and returning to the former era of the Soviet Union.

This morning we saw an employee of a major Russian TV station suddenly hold up an anti-war sign during a live TV newsroom

broadcast. This also represents the reality that many Russians are against Putin's invasion of Ukraine.

A wrong decision by a political leader often causes the suffering of many people. The tragedies of refugees continue to be repeated. We all hope this war will be over soon.



**Southern DAILY** Make Today Different

## Editor's Choice



A view shows a damaged window of a dress shop after shelling in the separatist-controlled city of Donetsk, Ukraine. REUTERS/Stringer



A woman reacts after she was rescued from a residential apartment building that was hit by shelling as Russia's invasion of Ukraine continues, in Kyiv, Ukraine. REUTERS/Thomas Peter



A person is seen during a snowstorm in Nuuk, Greenland. Ritzau Scanpix/Christian Klindt Soelbeck



Yulia Vigrinyak, from Mykolaiv, cries as she holds her dog, following their arrival by ferry after fleeing from Russia's invasion of Ukraine, at the Isaccea-Orlivka border crossing, Romania. REUTERS/Stoyan Nenov



A man walks past a mural in support of Ukraine by artist WOSKerski, as Russia's invasion of Ukraine continues, in London. REUTERS/Hannah McKay



Locals carry sandbags, filled with sand from Sobachyy beach, to bolster the city's defenses in Odessa, Ukraine. REUTERS/Nacho Doce

# How Russia's Invasion Of Ukraine Could Impact You



Further sanctions, energy market disruptions and cyberwarfare could reach Americans seemingly far removed from the conflict between Ukraine and Russia. Here, Russian army tanks are loaded onto trains to move them back to their permanent base after drills in Russia. (Photo/Russian Defense Ministry Press Service via AP)

Compiled And Edited By John T. Robbins, Southern Daily Editor

The long-feared invasion of Ukraine by Russia jolted markets, sent energy prices higher and prompted promises of a new round of consequences for Russia — signals that even people out of immediate harm's way will be affected by what threatens to become the biggest war in Europe since World War II.

Here's how the invasion will have ripple effects far outside the borders of the conflict. **There could be collateral damage from sanctions on Russia**

This week, President Biden announced a "first tranche" of economic sanctions on two Russian banks with about \$80 billion in assets and five Russian oligarchs and their families, and prohibited U.S. entities from purchasing Russian sovereign debt. More sanctions are expected to follow in response to what Biden said is a "needless act of aggression against Ukraine and global peace and security."



President Biden speaks about Russia and Ukraine in the East Room of the White House on Tuesday. (Photo/Brendan Smialowski/AFP via Getty Images)

The forthcoming sanctions could include

restrictions on major Russian banks that would dramatically affect Russia's ability to conduct international business. Severe U.S. sanctions could drive up prices for everyday Russians or cause Russia's currency or markets to crash.

Because the U.S. does not rely much on trade with Russia, it is somewhat insulated from direct consequences. Europe is more directly affected. But certain sectors of the U.S. economy rely on highly specific Russian exports, primarily raw commodities.

"The premise of sanctions is to hurt the other guy more than you hurt your own interests. But that does not mean there will not be some collateral damage," said Doug Rediker, a partner at International Capital Strategies.

**Energy prices could rise**  
In the early hours following Russia's invasion, Brent crude oil was trading at more than \$100 per barrel for the first time since 2014, and another benchmark, West Texas Intermediate, rose nearly 5% to more than \$96 per barrel.

Russia is a major exporter of oil and natural gas, especially to Europe. As a result, officials have reportedly shied away from severe sanctions on Russian energy exports.

But there are other ways the energy market could be disrupted.

Nearly 40% of the natural gas used by the European Union comes from

Russia. President Biden said prior to Russia's invasion of Ukraine that the not-yet-operational Nord Stream 2 pipeline would not move ahead in the event of an invasion. (Photo/Michael Sohn/AP)

For one, Russia could choose to cut off or limit oil and gas exports to Europe as retaliation for sanctions. Nearly 40% of the natural gas used by the European Union comes from Russia — and no European country imports more than Germany, a key ally of the United States.

Even if Russia chooses not to limit exports, supplies could still be affected by the conflict in Ukraine because multiple pipelines run through the country, carrying gas from Russia to Europe. "They could simply be casualties of a military invasion," Rediker said.

Either way, if Europe's natural gas supply is pinched, that could cause energy prices — which have already been climbing — to rise even further. And even though the U.S. imports relatively little oil from Russia, oil prices are set by the global market, meaning local prices could rise anyway. "There's a geopolitical premium, or call it a fear premium, in the price of oil," Daniel Yergin, vice chairman of IHS Markit, told Morning Edition. "An expectation that as this crisis spirals worse, that supplies of oil from Russia are going to be disrupted."

**Other industries, from food to cars, might also be hurt**

Russia is a major exporter of rare-earth minerals and heavy metals — such as titanium used in airplanes. Russia supplies about a third of the world's palladium, a rare metal used in catalytic converters, and its price has soared in recent weeks over fears of a conflict.

Ukrainian economic output and industry will likely be significantly disrupted. The country is a major source of neon, which is used in manufacturing semiconductors. As a result, U.S. officials have warned various sectors, including the semiconductor and aerospace industries, to brace for supply chain disruptions.

Fertilizer is produced in major quantities in both Ukraine and Russia. Disruptions to those exports would mostly affect agriculture in Europe, but food prices around the world could rise as a result.

**Global markets could drop**

The invasion rattled investors Wednesday, with Dow futures down more than 2% before the markets opened in the United States. Markets across Asia also dropped. The invasion sent the prices of traditional investment safe havens higher, with gold

up more than 1.5% overnight.



"Markets are fundamentally not prepared for a land war in Europe in the 21st century," Rediker said. "It's something people just have not contemplated."

The U.S. stock market has already been unusually volatile in recent weeks, churning over inflation, moves by the Federal Reserve to curb its stimulus programs and the looming conflict in Ukraine.

Historically, the market has bounced back relatively quickly after geopolitical events. That's what's most likely today too, analysts say, so the effect on people with 401(k) accounts may be short term.

But if the conflict causes long-lasting disruption of energy markets and other exports, investors could rethink that conventional wisdom.

"You're potentially at a point where not only are we looking at Russia potentially invading Ukraine and sanctions and countermeasures, but you are also looking at a rise of China that doesn't necessarily agree with the American perspective on the world anyway," Rediker said last week, before the invasion. "Are we looking at a point in which some of the major premises that people take for granted have to be reassessed?"

**Russia could launch disruptive cyberattacks**  
Another way Russia could respond to U.S. sanctions is through cyberattacks and influence campaigns.

Various federal agencies, including the Treasury and the Department of Homeland Security, have warned of possible cyberattacks on targets like big banks and power grid operators. "They have been warning everyone about Russia's very specific tactics about the possibility of attacks on critical infrastructure," Katerina Sedova, a researcher at Georgetown University's Center for Security and Emerging Technology, told NPR.

Russian cyberattacks have targeted Ukraine relentlessly in recent years, including attacks on the capital city of Kyiv's power grid in 2015 and 2016. But a major escalation could shift focus to U.S. targets. Sedova pointed to the Russian state-backed attack on the IT software company SolarWinds and a ransomware attack that shut down the Colonial Pipeline for six days as

examples of how major Russian cyberattacks could disrupt U.S. operations. (The Biden administration said it does "not believe the Russian government was involved" in the pipeline attack.)

Power grids, hospitals and local governments could all be targets, she said.

For now, Sedova said she is more worried about subtler attacks — like influence campaigns that aim to "sow discord between us and our allies in our resolve" to act jointly against Russia.

"Oftentimes, cyber-operations go hand in hand with influence," she said. "They're targeting a change of decision-making, a change in policy in that direction, a change in public opinion."

**A major invasion would likely spark a refugee crisis**



A serviceman with Ukraine's military forces walks along a trench on the front line with Russia-backed separatists, not far from Novoluhanske, in Ukraine's Donetsk region, on Feb. 16. (Photo/Anatolii Stepanov/AFP via Getty Images)

The invasion could send 1 million to 5 million refugees fleeing Ukraine, U.S. officials and humanitarian agencies have warned.

"It will be a continent-wide humanitarian disaster with millions of refugees seeking protection in neighbouring European countries," Agnès Callamard, secretary-general of Amnesty International, said last month in statement.

Poland, which shares a border with Ukraine and is already home to more than a million Ukrainians, would likely see the most refugees. Polish Interior Minister Mariusz Kaminski said his country was preparing for an "influx of refugees" from Ukraine.

The U.S. military says that the thousands of soldiers deployed to Poland this month are prepared to assist with a large-scale evacuation.

"Assistance with evacuation flow is something they could do, and could do quite well. They are going to be working with Polish authorities on what that looks like and how they would handle that," Defense Department spokesperson John Kirby said last week.

At the largest scale, a refugee crisis would not be contained to Europe — the U.S. would likely see refugees seeking asylum too. (Courtesy npr.org)

# COMMUNITY

## Will The New, Fast 5G Mobile System Put Lives At Risk?

# 5G Signal Could Jam Satellites That Provide Weather Forecasting

Compiled And Edited By John T. Robbins, Southern Daily Editor



Forecasters may no longer be able to warn of storms such as 2018's 'beast from the east', which dumped heavy snow on cities on the East Coast of the U.S. (Photo/Humphreys/PA)

The introduction of 5G mobile phone networks could seriously affect weather forecasters' ability to predict major storms.

That is the stark warning of meteorologists around the world, who say the next-generation wireless system now being rolled out across the globe is likely to disrupt the delicate satellite instruments they use to monitor changes in the atmosphere. The result will be impaired forecasts, poorer warnings about major storms, and loss of life, they say.

"The way 5G is being introduced could seriously compromise our ability to forecast major storms," said Tony McNally of the European Centre for Medium-Range Weather Forecasts in Reading, Pennsylvania. "In the end it could make the difference between life and death. We are very concerned about this."



5G boxes are being attached to street signs across America.

The crisis facing the world's meteorologists stems from the fact that the radio frequencies the new 5G networks will use could contaminate critical Earth observations made by weather satellites. Instruments onboard the satellites peer down into the atmosphere and study variables such as water vapor, rain, snow, cloud cover and ice content — all crucial factors that influence our weather. One example is the 23.8 gigahertz (GHz) fre-

quency. Water vapor emits a faint signal at this specific natural wavelength, and this data is monitored and measured by weather satellites. Forecasters then use this information to work out how a storm or weather system is likely to develop.

Such data is critical to our ability to make forecasts," said Niels Bormann, also of the Reading weather centre. "They are a unique natural resource, and if we lose this capability, weather forecasts will get significantly worse."

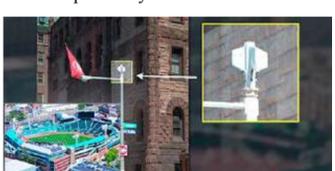


A 5G box attached to a pole on the Las Vegas Strip, just one block from Caesar's Palace.

The problem is that some 5G phone networks may transmit near a frequency similar to that emitted by water vapor, and so would produce a signal that looks very like the presence of water vapor in the atmosphere.

"We would not be able to tell the difference and so would have to discard that data," added Bormann. "That would seriously compromise our ability to make accurate forecasts."

The urgency of the problem is underlined by the fact that US Federal Communications Commission and similar agencies in other countries have already started to auction off frequencies close to the 23.8 GHz frequency to future 5G network providers. In addition, other bands that are used to probe our weather include the 36-37 GHz band, which is used to study rain and snow; the 50 GHz band, which is used to measure atmospheric temperature; and the 86-92 GHz band, which helps to analyze cloud and ice.



A 5G box high on a pole near Boston's Fenway Park.

All these contain sections of waveband that are being auctioned off in the US. It remains to be

seen if other nations will follow suit and sell these frequencies in their own countries over coming months. The issue is set to be debated at a global conference in Egypt later this year.

Forecasters say the US move has already compromised their ability to collect data, and promise to lobby other nations to limit use of crucial frequencies to preserve their ability to provide accurate forecasts. They accuse phone operators of ransacking the radio spectrum for wavelengths to exploit, and regulators of failing to protect the natural frequencies vital for Earth observation from space.

"The more we lose, the greater the impact will be," states meteorologist Jordan Gerth of the University of Wisconsin-Madison, in the current issue of Nature. "This is a global problem." (Courtesy https://www.theguardian.com)

**Related**  
**5G Health Effects: Dangers Of New Wireless Technology**



5G, the next-generation mobile wireless technology, will create the always-on, always-connected wireless world long-sought by the wide-eyed champions of this technology. It will infuse billions of connected devices, which will ceaselessly emit and receive wireless signals as they work to satisfy users all around the world.

The electromagnetic radiation from the hundreds of billions of 5G-connected devices will bombard the entire planet and most every human on it every second of every day. And herein lies the problem, say critics of 5G concerned about the health hazards of this new technology.

5G is a health risk, they contend, and a mounting number of studies seem to prove this point. This new tech took its biggest leap forward in April when South Korea proudly boasted to the world that it had become the first country to deploy a nationwide 5G network. Samsung then revealed the world's first 5G mobilephone, the Samsung Galaxy S10 5G.

The United States plans to roll out nationwide 5G networks over the next few years. China wants to beat the U.S. to this landmark while the 27 countries in the European Union will deploy the tech by the next decade.

5G will be everywhere by the 2020s, and so will be its health dangers. For a start, getting 5G to become ubiquitous will mean building new cell towers, millions and millions of them. These towers bring with them all the health risks associated with overexposure to electromagnetic radiation.

The preliminary results of a the \$25 million National Toxicology Program study released in 2016 found a link between cell phone radiation and cancer. It also found an increased risk of radiation exposure beyond what's deemed safe by the U.S. government.

Critics of 5G and its health dangers admit a lot of research needs to be done before they can definitely say cell phone radiation causes cancer. But the question they pose is: "Should humans be guinea pigs in the meantime?"



A 5G box attached to a lamp pole at the corner of East 57th Street, close to Times Square in New York City.

"I don't think it's clear that there are health risks, but it's also not clear that there are no health risks," said Dr Leeka Kheifets, PhD, an epidemiology professor at UCLA.

According to a 2018 study published in the journal Health Physics, extremely fast bursts of data transfers on a device as the result of 5G technology might lead to the heating of skin tissue in exposed people under current safety guidelines. (Courtesy https://www.medicaldaily.com)

**Is the 5G spectrum harmful to our health? Experts say, 'Don't worry.'**

Harnessing millimeter wave (mmWave) spectrum for faster data speeds is one of the biggest breakthroughs of 5G, the next generation cellular networking technology following 4G LTE. But there are concerns this very high-frequency spectrum could pose adverse health effects for the public.

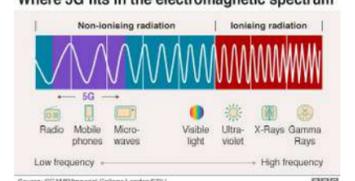


**Is RF radiation safe?**  
The radiation that cellphones give off is at the low-energy end of the electromagnetic spectrum, making them much safer than

high-energy radiation like x-rays and gamma rays. While the latter give off ionizing radiation, meaning they have enough energy to ionize an atom or molecule and thus damage cell DNA resulting in cancer, RF radiation does not. RF radiation only has enough energy to move or vibrate atoms in a molecule, not enough to ionize it. While that means RF radiation does not cause cancer by damaging DNA cells, there still are ongoing studies regarding the effects of non-ionizing radiation.

The FDA noted in 2018 statements that it believes "the current safety limits for cellphone radiofrequency energy exposure remain acceptable for protecting the public health."

## Where 5G fits in the electromagnetic spectrum



The U.S. Environmental Protection Agency (EPA) and U.S. National Toxicology Program (NTP) also have not formally classified RF radiation as cancer-causing. Meanwhile, the World Health Organization's International Agency for Research on Cancer (IARC) classifies RF radiation as "possibly carcinogenic to humans" due to the finding of a possible link in at least one study between cellphone use and a specific type of brain tumor. However, the IARC considers overall evidence "limited."

It's also important to note the IARC puts coffee and talc-based body powder in the same "possibly carcinogenic" category.

In one of the most recent studies, performed by the National Toxicology Program (NTP), high exposure to 2G and 3G RF radiation led to cancerous heart tumor development in male rats. NTP senior scientist John Butcher noted, however, that the levels and duration of exposure to RF radiation were much greater than what people experience with even the highest level of cell phone use, so the findings should not be directly extrapolated to human cell phone usage. Additionally, Butcher warned that 5G likely differs dramatically from 2G and 3G, so further studies are necessary.



**What about 5G?**  
The FDA told Digital Trends that, at this time, it "continues to believe that the current safety limits for cellphone radiofrequency energy exposure remain acceptable for protecting the public health."

"The limits are based on the frequency of the device, meaning that 5G has a different limit than other technologies," an agency spokesperson wrote in an email. "As part of our commitment to protecting the public health, the FDA has reviewed, and will continue to review, many sources of scientific and medical evidence related to the possibility of adverse health effects from radiofrequency energy exposure in both humans and animals and will continue to do so as new scientific data are published."

The agency noted that it lists significant ongoing research on the topic of RF exposure on its website at https://www.fda.gov/radiation-emitting-products/cell-phones/current-research-results. (Courtesy digitaltrends.com)