

**SATURDAY 19 MARCH 2022****SAT 00:00 BBC News (w172xzk2pf7mfsv)**

The latest five minute news bulletin from BBC World Service.

**SAT 00:06 The Newsroom (w172xyy0b3cq1s3)**

The world's Newsroom brings you global events as they happen

**SAT 00:30 BBC News Summary (w172xzk44v9t27)**

The latest two minute news summary from BBC World Service.

**SAT 00:32 Tech Tent (w3ct1njf)**

Tech goes to the aid of Ukrainian refugees

This week's guests include Ina Burgstaller, who set up an online service for victims of the war needing medical treatment. One of the volunteer medics, Dr Lawrence Barnes also explains why he got involved. We hear about the lift-sharing scheme dubbed Uber for refugees, helping to get Ukrainians to safety. And a new trial to see if gaming can ease pain.

**SAT 01:00 BBC News (w172xzk2pf7mkjz)**

The latest five minute news bulletin from BBC World Service.

**SAT 01:06 World Business Report (w172xzlqkgw05q7)**

Picking sides over the war in Ukraine

As Russia continues its offensive in Ukraine, the US warns China against actively supporting President Putin, whilst Turkey, a Nato member, walks a tightrope because of its political and economic ties to Russia. Chris Low, from FHN Financial in New York, explains how Beijing's position is being received in the US, and we hear from Turkish lawyer Ali Guden on how Russians are enquiring about opening bank accounts in Turkey.

The Supreme Court in Brazil has ordered that the popular messaging app Telegram be blocked nationwide. Artur Pericles is head of research at Internet Lab in Sao Paulo.

Tamasin Ford reports on the fate of Ukrainian refugees and hears from one Moldovan business owner about how he is adapting to accommodate families and Phil Mercer brings us up to date about moves by Australia's competition watchdog to sue Facebook's owner, Meta, over fake ads for cryptocurrency schemes.

(Photo: Moments after a rocket attack in Kharkiv. Credit: BBC)

**SAT 01:30 BBC News Summary (w172xzk44v9xtc)**

The latest two minute news summary from BBC World Service.

**SAT 01:32 WorklifeIndia (w3ct2f4n)**

How to deal with war trauma

More than three million people have fled Ukraine since the Russian invasion began in February this year. A large part of the country's population is still caught in the middle of war. They have witnessed horrific bombings, experienced loss of lives around them, and watched their homes and cities destroyed. How scarred will they remain by what they have experienced?

And what about those trained to fight or report in a conflict? According to mental health experts, distressing events during a war can lead to post-traumatic stress disorders. These could even be experienced by those not directly involved, but who consume information through online or offline media.

So what are the tips to stay safe, and warning signs to watch out for? How can therapy and counselling help? In this edition of WorklifeIndia, we discuss ways to deal with the trauma of war.

Presenter: Devina Gupta

Contributors: Nitin A Gokhale, defence and security analyst; Dr Parul Tank, psychiatrist, EMDR Association; Lt Col Samir Rawat (Retd), military psychologist, war veteran; Shourya Royal, MBBS student, Kharkiv Medical University, Ukraine

**SAT 02:00 BBC News (w172xzk2pf7mp93)**

The latest five minute news bulletin from BBC World Service.

**SAT 02:06 The Newsroom (w172xyy0b3cq98c)**

The world's Newsroom brings you global events as they happen

**SAT 02:30 BBC News Summary (w172xzk44vb1kh)**

The latest two minute news summary from BBC World Service.

**SAT 02:32 Stumped (w3ct1lcy)**

The new T20 tournament breaking barriers

Eleanor Oldroyd, Jim Maxwell and Charu Sharma discuss whether England have left it too little too late in the Women's World Cup and whether Australia are the real deal.

Deandre Dottin, Harmanpreet Kaur and Mignon Du Preez are just some of the biggest names to sign up to a brand new women's cricket tournament featuring players from as many as 36 countries including Bhutan, Vanuatu and Germany. The Fair Break Invitational is a women's T20 cricket tournament which will be played in Dubai and contested by six teams featuring world-renowned players. The team hear from the man behind the tournament Shaun Martyr.

And we look back on the remarkable second test match between Pakistan and Australia which resulted in an incredible draw and congratulate England captain Joe Root who has scored his ninth century since the start of 2021.

Photo: Deandra Dottin of the West Indies celebrates after taking the wicket of Fran Jonas of New Zealand during the 2022 ICC Women's Cricket World Cup match between New Zealand and the West Indies. (Credit: Getty Images)

**SAT 03:00 BBC News (w172xzk2pf7mt17)**

The latest five minute news bulletin from BBC World Service.

**SAT 03:06 The Fifth Floor (w3ct20gf)**

How Russia makes war: Syrian memories

BBC Arabic: perspectives on the war in Ukraine from across the Middle East and North Africa.

Dima Babilie of BBC Arabic is from Damascus in Syria. She compares the Russian invasion of Ukraine with the Russian intervention in the Syrian conflict, and tells us about the pro-Assad Syrians who want to fight alongside the Russian forces.

Hanan Razek tells us about her investigation into Russia's recruitment of mercenaries. She spoke to a serving fighter with the secretive Wagner organisation who says he was in Kharkiv at the beginning of the invasion. She also found some recruitment ads on social media inviting mercenaries to a "picnic in Ukraine".

Mehdi Musawi works on the BBC Arabic TV and radio phone-in programme Talking Point. Its focus has been entirely on the war since the Russian invasion, and Mehdi tells us about some of the topics they have covered, and which have attracted the greatest response.

Murad Shishani was deployed to the Polish-Ukrainian border at the start of the war and interviewed Arabic-speaking refugees, many of whom had already fled war in their home countries. Murad is a Jordanian of Chechen origin, and he explained the negative reactions this sometimes provokes, on this and previous assignments.

(Photo: Composite image of destruction in Aleppo, Syria in 2017 (L) and the aftermath of shelling in Kyiv, Ukraine in March 2022. Credit: Joseph Eid/AFP/Getty Images (L), Pavlo Bahmut/Ukrinform/NurPhoto/Getty Images)

**SAT 03:50 Witness History (w3ct1x01)**

The Shard

The Shard - one of the dominant features of the London skyline - opened to the public in February 2013. Designed by Italian architect Renzo Piano, the skyscraper divided public opinion: it features tall, fractured slivers of glass rising in a pyramid-like shape to a jagged spire. The Shard is also home to London's highest viewing gallery. Reena Stanton-Sharma talks to engineer, Roma Agrawal, who helped build the Shard.

PHOTO: The Shard towering over South London (Getty Images)

**SAT 04:00 BBC News (w172xzk2pf7mxsc)**

The latest five minute news bulletin from BBC World Service.

**SAT 04:06 The Real Story (w3ct1htx)**

War in Ukraine transforms Germany

Within days of Russia's invasion of Ukraine, Germany announced a number of significant changes to its economic and security policies. Chancellor Olaf Scholz described it as a Zeitenwende – or watershed – moment for Europe. The country would remove a self-imposed restraint on its armed forces - in place since the Second World War - and invest billions of dollars upgrading its military hardware. The government pledged to increase its defence spending to two percent of GDP making it the biggest military power in Europe. It also broke with tradition and began to supply arms to Ukraine and deploy troops on Nato's eastern flank. There is a shift in Germany's energy policy too. The country is heavily dependent on Russian

oil, gas, and coal; but it has begun to cut these ties starting with the cancellation of Nord Stream 2 pipeline. Analysts say regardless of the outcome, the war in Ukraine will bring about profound and long-lasting changes to Germany and its place in Europe. So how significant is Germany's plan to re-arm its military?

Ritula Shah is joined by a panel of experts.  
Producers: Paul Schuster and Junaïd Ahmed.

**SAT 05:00 BBC News (w172xzk2pf7n1jh)**

The latest five minute news bulletin from BBC World Service.

**SAT 05:06 The Newsroom (w172xyy0b3cqnh)**

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**SAT 05:30 BBC News Summary (w172xzk44vbdsw)**

The latest two minute news summary from BBC World Service.

**SAT 05:32 World of Wisdom (w3ct2zwp)**

Relationships with mothers

Our mothers are at the heart of who we are, whether they are in our lives or not, but this fundamental relationship can be very challenging, with wounds that can last a lifetime. Lucia, from Mexico, asks Buddhist nun Sister Dang Nghiem, how she can find peace with her mother even though they have a difficult relationship. Sister Dang speaks about healing from events that happen during childhood and how a cycle of suffering between parent and child can be broken.

Presenter: Sana Safi

Producer: Ruth Edwards and Charlie Taylor

**SAT 05:50 Over to You (w3ct1l2x)**

It is not a question of quality but quantity

We continue to get your feedback on the BBC World Service's coverage of the war in Ukraine. We are joined by BBC News global commissioner Liz Gibbons.

A listener questions not the quality but the quantity of coverage. And would the BBC ever embed any of its reporters with the Russian army?

Plus we explain how Ukrainecast has joined forces with Global News Podcast to answer your questions about the conflict.

Presenter: Rajan Datar

Producer: Howard Shannon

**SAT 06:00 BBC News (w172xzk2pf7n58m)**

The latest five minute news bulletin from BBC World Service.

**SAT 06:06 Weekend (w172xytqk5yzkjq)**

Ukraine's President calls for peace talks

Ukraine's president, Volodymyr Zelensky, has called for meaningful and comprehensive peace talks with Russia without any further delays. He made the call in a video address published online in the early hours of Saturday.

Also in the programme: Henry Wang, Founder and President of the Center for China and Globalization on the view from Beijing. What is China's real position on the war in Ukraine.

Joining Celia Hatton to discuss these and other issues are Suzanne Lynch, author of POLITICO's Brussels Playbook, and Arkady Ostrovsky, Russia and eastern Europe editor for The Economist magazine.

(Photo: Ukraine's President Volodymyr Zelenskyy visits combat positions in the Donetsk region: Ukraine's President Volodymyr Zelenskyy meets with the country's service members at the combat positions near the line of separation from Russian-backed rebels on the Day of the Armed Forces in the Donetsk region, Ukraine December 6, 2021. HO via Reuters)

**SAT 07:00 BBC News (w172xzk2pf7n90r)**

The latest five minute news bulletin from BBC World Service.

**SAT 07:06 Weekend (w172xytqk5yzp8v)**

Russia continues attacks on Ukrainian cities

Russian forces have continued their attacks on cities in Ukraine from three fronts, this despite calls by President Volodymyr Zelensky for immediate peace talks.

Also in the programme: A former NATO military commander urges the organisation to be more assertive when dealing with geo-political issues such as the ongoing war in Ukraine.

Joining Celia Hatton to discuss these and other issues are Suzanne Lynch, author of POLITICO's Brussels Playbook, and Arkady Ostrovsky, Russia and eastern Europe editor for The Economist magazine.

(Photo: A tank of Russian armed forces drives during military exercises in the Leningrad Region, Russia, in this handout picture released February 14, 2022. Russian Defence Ministry (MO / Ministry of Defence of the Russian Federation) /Handout via REUTERS)

**SAT 08:00 BBC News (w172xzk2pf7ndrw)**

The latest five minute news bulletin from BBC World Service.

**SAT 08:06 Weekend (w172xytqk5yzt0z)**

Top Ukrainian official says peace talks must not compromise sovereignty

Ukraine's deputy Minister of Foreign Affairs, Emine Dzhepar, has told Weekend that ongoing peace talks should not compromise the country's territorial integrity.

Also in the programme: How the war in Ukraine has changed life in the usually quiet city of Hostomel.

Joining Celia Hatton to discuss these and other issues are Suzanne Lynch, author of POLITICO's Brussels Playbook, and Arkady Ostrovsky, Russia and eastern Europe editor for The Economist magazine.

(Photo: A new member of the Territorial Defence Forces trains to operate AT4 anti-tank launcher during military exercises amid Russia's invasion of Ukraine, in Kyiv, Ukraine March 9, 2022. REUTERS/Valentyn Ogirenko.)

**SAT 08:30 BBC News Summary (w172xzkx44vbs18)**

The latest two minute news summary from BBC World Service.

**SAT 08:32 BBC OS Conversations (w3ct2d76)**

Refusing to leave Kyiv

As the bombardment of Ukraine continues, and hundreds of refugees continue to flee to neighbouring countries, we hear from the capital and a conversation between three Kyiv residents, who describe their determination to remain in their city to support others, and to fight.

Host Karnie Sharp also introduces a conversation among Russians living around the world. They discuss their emotions as they watch the war from afar - and share how their memories of their country and its propaganda regime have shaped their view of the country today.

In Lithuania, a group of activists is trying to reach the Russian population "one phonecall at a time", as they put it. Having noticed that in Russia, phone numbers are freely available on the internet, they decided to recruit volunteers to make calls to randomly selected Russian civilians. We hear from the organiser, and two of the project's volunteers. They tell us about the responses they get when they try to talk about Ukraine and get their message across.

(Photo: A woman checks a sewing machine outside her atelier damaged by shelling in Kyiv. Credit: Sergei Supinsky/AFP )

**SAT 09:00 BBC News (w172xzk2pf7nj0)**

The latest five minute news bulletin from BBC World Service.

**SAT 09:06 The Newsroom (w172xyy0b3cr4h8)**

The world's Newsroom brings you global events as they happen

**SAT 09:30 BBC News Summary (w172xzkx44vbwsd)**

The latest two minute news summary from BBC World Service.

**SAT 09:32 The Explanation (w3ct3tpy)**

Understanding the rise of Boko Haram

Claire Graham talks to the BBC's West Africa correspondent, Mayeni Jones, to get a better understanding of how Boko Haram, the militant Islamic group, took hold in northern Nigeria.

**SAT 09:50 Over to You (w3ct1l2x)**

[Repeat of broadcast at 05:50 today]

**SAT 10:00 BBC News (w172xzk2pf7nn84)**

The latest five minute news bulletin from BBC World Service.

**SAT 10:06 Sportshour (w172y0qhmgf428s)**

Oleksiej Zorin: The Ukrainian American Football player helping the people of Kyiv

Oleksiej Zorin is an American Football player and team owner. His family are in Poland under the care of the team he plays for, while he is unable to reach players based in Mariupol, who play on the team he owns, after the city came under heavy attack from Russia. He admits he is scared for the players he can't reach and grateful his team in Poland got his family out of Ukraine. He tells us about the work he is doing to help the people of Kyiv and how he has considered joining the army. Zorin says he doesn't fear death but he does fear for the future.

Lowri Norkett joins us in a week which saw her make her debut for Wales and then be selected for their 6 Nations squad. Norkett only took up rugby union after her sister Elli – who was a Wales international – was killed in a car crash five years ago. Lowri tells us about wearing her sisters boots and how she is always with her.

The incoming NWSL commissioner Jessica Berman tells us about rebuilding trust between the league and the players following allegations of sexual misconduct against a former coach last year. She also says demand for tickets for Angel City FC's first home game is akin to a Super Bowl and that bringing more new teams into the league is among her top priorities.

And - In Sporting Witness, we hear from the cardiologist who saved Fabrice Muamba's life, ten years after he went into cardiac arrest and collapsed on the pitch in a Premier League match.

Image: Getty Images

**SAT 11:00 BBC News (w172xzk2pf7ns08)**

The latest five minute news bulletin from BBC World Service.

**SAT 11:06 The Newsroom (w172xyy0b3crzj)**

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**SAT 11:30 BBC News Summary (w172xzkx44vc48n)**

The latest two minute news summary from BBC World Service.

**SAT 11:32 BBC OS Conversations (w3ct2d76)**

[Repeat of broadcast at 08:32 today]

**SAT 12:00 BBC News (w172xzk2pf7nwrj)**

The latest five minute news bulletin from BBC World Service.

**SAT 12:06 Heart and Soul (w3ct41vd)**

Young Hindus

What does it mean to be a young Hindu in India today? The BBC's South Asia correspondent Rajini Vaidyanathan is in Delhi with a panel of young people aged between 18-27 who have travelled from across India to share what their faith means to them. They give their views on the caste system, Hindu nationalism, interfaith marriage, who is and is not a Hindu and the values and rituals that sustain them in their daily life.

Presenter: Rajini Vaidyanathan  
Producer: John Offord

(Photo: Rajini Vaidyanathan with Delhi producer Shalu Yadav and panellists Ojas Sahasrabudhe, Kashish Kunden, Akshat Pal, Architi Batra, Disha Singh, Sankalp Dash, Swarangi Joshi, Akshay Anand and Siddhant Mohite)

**SAT 13:00 BBC News (w172xzk2pf7p0hj)**

The latest five minute news bulletin from BBC World Service.

**SAT 13:06 Newshour (w172xv5n7vh4zt4)**

Ukraine War: hundreds trapped in Mariupol Theatre

Hundreds of residents are trapped in the basement of a theatre in the city of Mariupol, and have been since a Russian airstrike on Wednesday. Efforts to rescue them have stalled because of renewed fighting; also, we hear from one of the thousands of Russians have left the country as a result of the invasion of Ukraine; and what role does the Russian Orthodox Church play in influencing President Putin?

(Photo: General view of the remains of the drama theatre which was hit by a bomb in Mariupol 18/03/2022. Credit: Azov Handout/ via Reuters)

**SAT 14:00 BBC News (w172xzk2pf7p47n)**

The latest five minute news bulletin from BBC World Service.

**SAT 14:06 Sportsworld (w172y0tsdctwrzj)**

Live Sporting Action

Lee James presents coverage of the English Premier League and FA Cup alongside the Sportsworld team, including the former Tottenham and Republic of Ireland defender Stephen Kelly and the Southampton and New Zealand forward Katie Rood. We'll also preview the new Formula One season and bring you the latest on qualifying for the opening race in Bahrain, as well as discussing the final round of fixtures in the Six Nations and the latest from the Women's Cricket World Cup.

Image: Aaron Ramsdale of Arsenal attempts to save the shot of Emiliano Buendia of Aston Villa as Gabriel Magalhaes of Arsenal attempts to block during the Premier League match between Arsenal and Aston Villa at Emirates Stadium on October 22, 2021 in London, England. (Photo by James Chance/Getty Images)

**SAT 18:00 BBC News (w172xzk2pf7pm75)**

The latest five minute news bulletin from BBC World Service.

**SAT 18:06 The Newsroom (w172xyy0b3cs76f)**

The world's Newsroom brings you global events as they happen

**SAT 18:30 BBC News Summary (w172xzkx44vczhk)**

The latest two minute news summary from BBC World Service.

**SAT 18:32 World of Wisdom (w3ct2zwp)**

[Repeat of broadcast at 05:32 today]

**SAT 18:50 Sporting Witness (w3ct119p)**

Saving Fabrice Muamba

It's 10 years since one of the most dramatic moments in the history of Premiership football. Fans around the world held their breath when the Bolton midfielder Fabrice Muamba went into cardiac arrest and collapsed on the pitch. His heart stopped for 78 minutes. Uma Doraiswamy has been speaking to cardiologist Dr Andrew Deaneer, who ran from the stands to help save Fabrice Muamba's life.

PHOTO: The medical team treating Fabrice Muamba (Getty Images)

**SAT 19:00 BBC News (w172xzk2pf7pqz9)**

The latest five minute news bulletin from BBC World Service.

**SAT 19:06 The Documentary (w3ct3tpq)**

Mass incarceration: From the inside

The US has nearly 5% of the world's population – but 25% of the world's prisoners. In the last 40 years, the US prison population has increased 500%, making it the world's leading jailer.

Music producer Ryan Burvick runs a rejuvenation programme on Rikers Island, America's most notorious jail. Now those who have been through the prison system open up to him about their experiences: why cash for bail is a problem, how the plea bargain works against inmates, why a felony conviction destroys life chances, and why black Americans are five times more likely to be incarcerated than white. Ryan also hears from criminologist experts and a former corrections commissioner about what should happen next, from reform to abolition.

(Photo: Hands through bars. Credit: iStock)

**SAT 20:00 BBC News (w172xzk2pf7pvqf)**

The latest five minute news bulletin from BBC World Service.

**SAT 20:06 The Arts Hour (w3ct1rvf)**

On Tour in New York

The Arts Hour is back on Tour with three live stage shows across the USA .

Starting at New York's New World Stages, as part of the BBC World Service Festival, Nikki Bedi and guests celebrate a new wave of diversity on Broadway and in the performing arts, as venues reopen and the city emerges from the pandemic.

Broadway is the most famous theatre street in the world. It was nicknamed 'The Great White Way', because it was the first street in Manhattan to get lighting in 1880, but this is also a fitting metaphor for its overwhelmingly white culture. In March 2020 theatre productions were suspended as the city went into lockdown. Then in May 2020 the killing of George Floyd sparked Black Lives Matter protests across America and in

response, Black and diverse theatre artists started demanding change.

When Broadway theatres re-opened late last Summer, producers had programmed ten plays and musicals by Black writers - compared with a total of just fifteen over the previous decade. Does this signal a new era of opportunities and if so, what will be the key to sustaining it?

Joining Nikki Bedi at New World Stages are:

The Artistic Director of the Alvin Ailey American Dance Theatre Robert Battle  
Playwright Antoinette Chinoye Nwandu  
Theatre director Rachel Chavkin  
Comedian Fumi Abe  
Rapper Kember  
Spiritual soul singer Duendita

And ...a live audience!

(Photo: Nikki Bedi and guests on the New World Stages stage)

**SAT 21:00 BBC News (w172xzk2pf7pzgk)**

The latest five minute news bulletin from BBC World Service.

**SAT 21:06 Newshour (w172xv5n7vh5ys5)**

Fighting hampers Mariupol theatre rescue

Street fighting in Mariupol is blocking efforts to rescue of hundreds of survivors trapped beneath a shelled theatre. In a Telegram message the city's mayor said several thousand residents have been 'illegally' sent to Russia. We hear from an Ukrainian MP whose sister made it out of the city.

Also in the programme: Mainland China reports its first deaths from Covid-19 since January; and Syrian president Bashar Al-Assad visits UAE.

(Photo: Service members of pro-Russian troops drive an armoured vehicle in the southern port city of Mariupol. Credit: Reuters).

**SAT 22:00 BBC News (w172xzk2pf7q36p)**

The latest five minute news bulletin from BBC World Service.

**SAT 22:06 The Newsroom (w172xyy0b3csq5y)**

The world's Newsroom brings you global events as they happen

**SAT 22:30 BBC News Summary (w172xzk44vdgh2)**

The latest two minute news summary from BBC World Service.

**SAT 22:32 The Cultural Frontline (w3ct1pv3)**

Theatre masterclass special

Playwright Mark Ravenhill celebrates the power and process of theatre, talking to some of its leading global voices. He's joined by Indian playwright and director Abhishek Majumdar, James Ngcobo, Artistic Director of the Market Theatre in Johannesburg, South Africa, Lauren Gunderson, who's been called America's most produced living playwright and Chilean director Manuela Infante.

There is behind the scenes insights, sharing their top tips for creating exciting, innovative theatre. They discuss the impact that theatre can have and their hopes for the future after the devastating impact of the pandemic.

They are also joined by other inspiring theatre makers who discuss their own experiences, as well as answering questions posed by our virtual audience.

Producers: Andrea Kidd and Lucy Collingwood

(Photo: Mark Ravenhill. Credit: Scott Campbell/Getty Images)

**SAT 23:00 BBC News (w172xzk2pf7q6yt)**

The latest five minute news bulletin from BBC World Service.

**SAT 23:06 Music Life (w3ct1hde)**

The gaming community with Olivier Deriviere, Lena Raine, Joris de Man and Chipzel

Olivier Deriviere, Lena Raine, Joris de Man and Chipzel answer listeners' questions about making music for video games, in a special edition of Music Life for the World Service Festival. The group will be discussing everything from composing vertically and horizontally, how to write music that reacts to your game playing, and easy ways of building energy, to using artificial intelligence in composition, balancing the music with sound effects, and arguing with yourself.

Olivier Deriviere is a French video game music composer best known for his work on Alone in the Dark, the Streets Of Rage series, and Assassin's Creed 4: Freedom Cry. His style blends traditional musical elements with unorthodox sound techniques.

Lena Raine, is an award-winning American composer and producer best known for soundtracking acclaimed indie video games Celeste and Guild Wars 2, as well as composing for Minecraft.

Dutch composer Joris de Man's eclectic style has earned him an Ivor Novello Award and BAFTA nomination, and he blends everything from glitchy electronica to orchestral sounds. His compositions include the Killzone franchise, Vainglory, and the blockbuster Horizon Zero Dawn.

Niamh Houston, AKA Chipzel, is a Northern Irish composer who specialises in "chiptune" music. It's a vintage, 8-bit computer sound and she still composes on a Nintendo Game Boy to write and perform her retro sounds. She has composed soundtracks for Super Hexagon, Interstellaria and Dicey Dungeons.

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**SUN 00:32 World of Wisdom (w3ct2zwp)**

[Repeat of broadcast at 05:32 on Saturday]

**SUN 00:50 Over to You (w3ct1l2x)**

[Repeat of broadcast at 05:50 on Saturday]

**SUN 01:00 BBC News (w172xzk2pf7qgg2)**

The latest five minute news bulletin from BBC World Service.

**SUN 01:06 The Science Hour (w3ct1ywp)**

Covid in the sewers

Analysis of wastewater from sewage systems has provided an early warning system for the presence of Covid19 in communities – showing up in the water samples before people test positive. It's also possible to identify the variants and even specific genetic mutations. Davida Smyth of Texas A&M University has been using this technique in New York and found intriguing results -forms of the virus not present in humans. The suggestion is that mutated forms may be infecting other animals, possibly those present in the sewers. An analysis of long Covid, symptoms of fatigue, and 'brain fog' which occur long after initial infection, show that around a quarter of those infected develop these symptoms. Lucy Cheke of Cambridge University discusses the implications.

The war in Ukraine has highlighted the importance of the region in supplying raw materials and energy to other countries, gas, cereal crops, and fertilisers in particular. As crop scientist John Hammond from Reading University explains stopping of fertiliser exports from Russia, in particular, could impact food security in many countries.

And with unseasonal fires already burning in the Western US Caroline Juang of Columbia University's Earth Observatory gives us her analysis of the driving factors in the intensification of fires year on year.

Faced with one cake and eight hungry people, it's pretty obvious how maths underpins reality. But as mathematics gets further from common sense and into seemingly abstract territory, nature still seems to obey its rules - whether in the orbit of a planet, the number of petals on a flower, or the structure of an atom.

But what exactly is the relationship between mathematics and reality? That's the impossibly difficult question CrowdScience has been set this week by our listener Sergio in Peru. It's one that's been pondered by humans for millennia: the Greek philosopher Pythagoras believed "All is number".

Is maths a human construct to help us make sense of reality - a tool, a model, a language? Does maths create its own reality? Or is it reality itself?

(Image: USA, New York, steam coming out from sewer. Credit: Westend61 via Getty Images)

**SUN 02:00 BBC News (w172xzk2pf7q166)**

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**SUN 02:06 The Newsroom (w172xyy0b3ct65g)**

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**SUN 02:30 BBC News Summary (w172xzk44vdygl)**

The latest two minute news summary from BBC World Service.

**SUN 02:32 Health Check (w3ct1nwr)**

The kindness test: The results

Although the world might not feel like a very kind place at the moment, this might be just the time when acts of kindness matter the most.

This week, Claudia Hammond reveals the results of the world's largest public science project on kindness. With over 60,000 participants from 144 countries, this unique study helps to fill some of the research gaps and learn more about how kindness is viewed within society at large. What is kindness? Are we more or less kind than before? Where do acts of kindness take place? Are certain types of people kinder than others? Is kindness good for us?

Professor Robin Bannerjee, University of Sussex, led the study and joins Claudia in the studio to unpick the results.

Presenter: Claudia Hammond  
Producer: Samara Linton

**SUN 03:00 BBC News (w172xzk2pf7qpyb)**

The latest five minute news bulletin from BBC World Service.

**SUN 03:06 BBC OS Conversations (w3ct2d76)**

[Repeat of broadcast at 08:32 on Saturday]

**SUN 03:30 BBC News Summary (w172xzk44vf26q)**

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**SUN 03:32 Tech Tent (w3ct1njf)**

[Repeat of broadcast at 00:32 on Saturday]

**SUN 04:00 BBC News (w172xzk2pf7qtpg)**

The latest five minute news bulletin from BBC World Service.

**SUN 04:06 From Our Own Correspondent (w3ct1mwb)**

War and death in Kharkiv

Quentin Sommerville witnesses the tragic-yet-familiar reality of war in Ukraine's second-largest city, Kharkiv.

Leila Molana Allen discovers a sense of déjà vu, reflection and solidarity among Syrians, as they watch Russia's shelling of Ukraine.

On Australia's east coast, Vivienne Nunis meet residents whose homes and businesses have been ruined by the recent flooding, and some who gambled on not needing flood insurance.

And what's it like to have a president as a neighbour? Jane Chambers goes property snooping in the bohemian neighbourhood of Barrio Yungay in Santiago, home to Chile's new president, Gabriel Boric.

Presenter: Pascale Harter  
Producer: Diane Richardson  
Editors: Richard Fenton-Smith and Emma Close

(Image: Rescuers work next to a building damaged by air strike in Kharkiv, Ukraine. Credit: Reuters/Vitalii Hnidy)

**SUN 04:30 BBC News Summary (w172xzk44vf5yv)**

The latest two minute news summary from BBC World Service.

**SUN 04:32 The Cultural Frontline (w3ct1pv3)**

[Repeat of broadcast at 22:32 on Saturday]

**SUN 05:00 BBC News (w172xzk2pf7qyfl)**

The latest five minute news bulletin from BBC World Service.

**SUN 05:06 The Newsroom (w172xyy0b3ctkdv)**

The world's Newsroom brings you global events as they happen

**SUN 05:30 BBC News Summary (w172xzkx44vf9pz)**

The latest two minute news summary from BBC World Service.

**SUN 05:32 The Documentary (w3ct40tc)**

Bougainville's long road to independence

How do you create a nation from the ruins of conflict and neglect? It is the question asked by local journalist, Louiseanne Laris, as her home island of Bougainville prepares to become the world's newest country.

Bougainville lies on the very eastern edge of the Pacific country of Papua New Guinea. It is a lush tropical island, rich in natural resources and minerals with a long history of colonisation and occupation. In the 1980s, tension over a massive foreign-owned copper and gold mine led to a 10-year civil war between local rebels and government forces. Thousands were killed and displaced by the fighting. When peace was finally brokered, Bougainvilleans demanded a referendum on their future.

In 2019 this finally happened. More than 98% of Bougainville's population voted to separate from Papua New Guinea and become fully independent. Still scarred by the conflict, people are struggling to rebuild their lives and the country around them. They want justice, economic opportunities and assurances of safety. But how can Bougainville meet these demands? And does the island have the capacity to govern itself after years of neglect?

(Photo: Bougainville residents queue to vote at a polling station in an historical independence vote in Buka on 23 November, 2019. Credit: Ness Kerton/AFP/Getty Images)

**SUN 06:00 BBC News (w172xzk2pf7r25q)**

The latest five minute news bulletin from BBC World Service.

**SUN 06:06 Weekend (w172xytqk5z2gft)**

Ukraine: Active shelling in Kyiv overnight

Ukrainian MP, Kira Rudik, the leader of the opposition Golos party, has told the BBC that there's been active shelling overnight in the capital, Kyiv.

Also, in the programme: A look at why Covid cases are rising in Hong Kong.

Joining Celia Hatton to discuss these and other issues are Lisa Millar, a journalist and broadcaster for the ABC network in Australia, and Rupert Russell, a British filmmaker and author.

(Photo: Servicemen of the Ukrainian National Guard / guards / soldiers take positions in central Kyiv, Ukraine February 25, 2022. REUTERS/Gleb Garanich)

**SUN 07:00 BBC News (w172xzk2pf7r5xy)**

The latest five minute news bulletin from BBC World Service.

**SUN 07:06 Weekend (w172xytqk5z2l5y)**

Zelensky says Mariupol siege is an act of terror

President Volodymyr Zelensky of Ukraine has described Russia's siege of Mariupol as an act of terror that will be remembered for centuries.

Also, in the programme: A look at why political and economic concerns at home are forcing western leaders to do business with dictators and governments considered to be violators of human rights.

Joining Celia Hatton to discuss these and other issues are Lisa Millar, a journalist and broadcaster for the ABC network in Australia and Rupert Russell, a British filmmaker and author.

(Photo: Ukraine's President Volodymyr Zelenskiy meets with the country's service members at the combat positions near the line of separation from Russian-backed rebels on the Day of the Armed Forces in the Donetsk region, Ukraine December 6, 2021)

**SUN 08:00 BBC News (w172xzk2pf7r9nz)**

The latest five minute news bulletin from BBC World Service.

**SUN 08:06 Weekend (w172xytqk5z2py2)**

Thousands flee besieged Mariupol for Zaporizhzhia

Thousands of people have fled the besieged city of Mariupol into the southern city of Zaporizhzhia.

Also, in the programme: We meet the residents of the Ukrainian capital, Kyiv who are determined to continue living their lives despite the raging war.

Joining Celia Hatton to discuss these and other issues are Lisa Millar, a journalist and broadcaster for the ABC network in Australia and Rupert Russell, a British filmmaker and author.

(Photo: People walk near a block of flats, which was destroyed during Ukraine-Russia conflict in the besieged southern port city of Mariupol, Ukraine on March 17, 2022. Credit: REUTERS/Alexander Ermochenko)

**SUN 08:30 BBC News Summary (w172xzkx44vfnye)**

The latest two minute news summary from BBC World Service.

**SUN 08:32 The Food Chain (w3ct1rh4)**

A Ukrainian kitchen in London

Chef Olia Hercules invites us into her London home to reflect on her country's rich culinary heritage and the power of food in even the darkest of times.

She opens her well-stocked kitchen cupboards and fridge to reveal the varied flavours, colours and scents of a cuisine she says is often wrongly dismissed as being 'beige' or boring.

Ruth Alexander joins Olia and her Russian friend and fellow food writer, Alissa Timoshkina, to discuss the close ties between their nation's traditional dishes, and the importance of the two women's own personal friendship.

The conversation was recorded on Tuesday 8 March; 12 days into the Russian invasion of Ukraine.

If you would like to get in touch with the show, please email thefoodchain@bbc.co.uk

(Picture: Olia Hercules and Alissa Timoshkina. Credit: BBC)

Producer:

Sarah Stolarz

**SUN 09:00 BBC News (w172xzk2pf7rf3)**

The latest five minute news bulletin from BBC World Service.

**SUN 09:06 The Newsroom (w172xyy0b3cv1dc)**

The world's Newsroom brings you global events as they happen

**SUN 09:30 BBC News Summary (w172xzkx44vfpsh)**

The latest two minute news summary from BBC World Service.

**SUN 09:32 Outlook (w3ct1kyd)**

How the Donut King lost his crown

Ted Ngoy was among the first Cambodians to find refuge in America from the Khmer Rouge. He was scratching a living at a petrol station when he got a whiff of a donut and something clicked in him. He learned to bake, then trained and supported other refugees like himself, and was soon presiding over a multimillion dollar business. He was known as the Donut King, and had the deep respect of his family and his community. But he struggled to hang on to his crown. Ted's story is featured in the documentary, The Donut King. A longer version of this interview was first broadcast in April 2020.

Presenter: Jo Fidgen

Producer: Maryam Maruf

(Photo: Ted Ngoy in a donut shop. Credit: Getty Images)

Get in touch: outlook@bbc.com

**SUN 10:00 BBC News (w172xzk2pf7rk57)**

The latest five minute news bulletin from BBC World Service.

**SUN 10:06 Deeply Human (w3ct3hgy)**

Deeply Human Series 2

Crowds

Why do crowds move us?

Being part of a crowd can embolden us: we might raise our voices in protest at a march, or snort-laugh more at a sold-out comedy gig. But in the popular imagination, big crowds are often associated with danger - with hysteria and violence. From the Hajj to a heavy metal concert, how does being surrounded by others change our behavior?

Dessa talks with a psychologist, a mathematician, an activist, and a legendary DJ to find out how we are moved by crowds.

**SUN 10:30 BBC News Summary (w172xzkx44vfxm)**

The latest two minute news summary from BBC World Service.

**SUN 10:32 Heart and Soul (w3ct41vd)**

[Repeat of broadcast at 12:06 on Saturday]

**SUN 11:00 BBC News (w172xzk2pf7rnxc)**

The latest five minute news bulletin from BBC World Service.

**SUN 11:06 The Newsroom (w172xyy0b3cv8wm)**

The world's Newsroom brings you global events as they happen

**SUN 11:30 BBC News Summary (w172xzkx44vg15r)**

The latest two minute news summary from BBC World Service.

**SUN 11:32 The Compass (w3ct3jzh)**

Emotional Baggage

Emotional Baggage: Maya Youssef

Musician Maya Youssef talks about her painful decision not to return to her parents' house in Damascus when the civil war in Syria began. She reveals how playing music brings back such vivid memories of her homeland that she feels she has returned to her birthplace, even though she has not been there for over a decade.

(Photo: Maya Youssef and her qanun. Credit: Igor Studio)

**SUN 12:00 BBC News (w172xzk2pf7rsnh)**

The latest five minute news bulletin from BBC World Service.

**SUN 12:06 The Documentary (w3ct3tpq)**

[Repeat of broadcast at 19:06 on Saturday]

**SUN 13:00 BBC News (w172xzk2pf7rxdm)**

The latest five minute news bulletin from BBC World Service.

**SUN 13:06 Newshour (w172xy5n7vh7wq7)**

Ukraine: Russia accused of bombing art school in Mariupol

In a video address, Ukrainian President Volodymyr Zelensky condemns Russia's bombing of Mariupol, calling it "a terror that will be remembered for centuries to come." For more than two weeks, the city has seen frequent Russian strikes which have cut off electricity, gas, running water and other supplies. We'll hear from a resident who fled the city in a car with a smashed windscreen.

Also on the programme: President Zelensky suspends eleven pro-Russia political parties; and temperatures hit a freakish high in Eastern Antarctica.

(Photo: Local residents walk near residential buildings damaged in the besieged Ukrainian southern port city of Mariupol Credit:Reuters/Stringer)

**SUN 14:00 BBC News (w172xzk2pf7s14r)**

The latest five minute news bulletin from BBC World Service.

**SUN 14:06 The Forum (w3ct1rmp)**

Money: From coin to cryptocurrency

From Mesopotamian loan records which are over 4,000 years old to the cryptocurrencies of today, money has been with us for a long time. But how did we get from exchanging bits of metal or cowrie shells to the algorithmic trading of shares? Why did paper money originate in Song-dynasty China? Why was the Gold Standard adopted in the 19th Century? And what is money anyway?

These are some of the questions that Bridget Kendall investigates with the help of three financial historians: Ute Wartenberg, president of the American Numismatic Society; William Goetzmann, professor of Finance and Management Studies at Yale University; and Christian de Pee, professor of History at the University of Michigan. They also answer listeners' questions about the history of finance.

(Photo: Roman gold coins found in Corbridge, UK in 1911. Credit: Universal History Archive/Universal Images Group/Getty Images)

**SUN 14:50 Over to You (w3ct112x)**

[Repeat of broadcast at 05:50 on Saturday]

**SUN 15:00 BBC News (w172xzk2pf7s4ww)**

The latest five minute news bulletin from BBC World Service.

**SUN 15:06 Music Life (w3ct1hdc)**

[Repeat of broadcast at 23:06 on Saturday]

**SUN 16:00 BBC News (w172xzk2pf7s8n0)**

The latest five minute news bulletin from BBC World Service.

**SUN 16:06 Sportsworld (w172y0tsdctzct)**

Live Sporting Action

Mike Williams presents commentary of Tottenham against West Ham in the Premier League and we get reaction from the King Power stadium, where Leicester City host Brentford. We'll have the latest from Sunday's three FA Cup quarter-finals, Crystal Palace against Everton, Southampton against Manchester City and Nottingham Forest against Liverpool. As the World Indoor Athletics Championships in Belgrade draw to a close, we'll have the best of the action from the final day. And we get reaction as the Women's Cricket World Cup hosts take on New Zealand.

Image: Lucas Moura scores Tottenham Hotspur's winning goal during the Carabao Cup Quarter Final match between Tottenham Hotspur and West Ham United at Hotspur Stadium on December 22, 2021 in London, England. (Photo by Visionhaus/Getty Images)

**SUN 19:00 BBC News (w172xzk2pf7smwd)**

The latest five minute news bulletin from BBC World Service.

**SUN 19:06 The Newsroom (w172xyy0b3cw7vn)**

The world's Newsroom brings you global events as they happen

**SUN 19:30 BBC News Summary (w172xzk44vh04s)**

The latest two minute news summary from BBC World Service.

**SUN 19:32 Tech Tent (w3ct1njf)**

[Repeat of broadcast at 00:32 on Saturday]

**SUN 20:00 BBC News (w172xzk2pf7srmj)**

The latest five minute news bulletin from BBC World Service.

**SUN 20:06 The Real Story (w3ct1htx)**

[Repeat of broadcast at 04:06 on Saturday]

**SUN 21:00 BBC News (w172xzk2pf7swcn)**

The latest five minute news bulletin from BBC World Service.

**SUN 21:06 Newshour (w172xv5n7vh8vp8)**

Our neighbours want us dead, Zelensky tells Israel

'We want to live. Our neighbours want to see us dead' President Zelensky tells Israeli MPs. But former Israeli MP, Ksenia Svetlova, tells Newshour that for reasons of realpolitik, Israel's policy of neutrality in the conflict is unlikely to change.

Also in the programme: the great granddaughter of Soviet leader Nikita Khrushchev reflects on the conflict and whether American triumphalism stoked Russian resentment that led to the rise of Vladimir Putin; and how the messaging app Telegram is being used by both Russians and Ukrainians to communicate about the war.

(Photo: People watch Ukrainian President Volodymyr Zelensky's speech broadcast live at Habima square in Tel Aviv, Israel, 20 March 2022. Zelensky addressed the Israeli parliament Knesset members. Credit: EPA/Abir Sultan)

**SUN 22:00 BBC News (w172xzk2pf7i03s)**

The latest five minute news bulletin from BBC World Service.

**SUN 22:06 The Newsroom (w172xyy0b3cwm31)**

The world's Newsroom brings you global events as they happen

**SUN 22:30 BBC News Summary (w172xzk44vhcd5)**

The latest two minute news summary from BBC World Service.

**SUN 22:32 Outlook (w3ct1kyd)**

[Repeat of broadcast at 09:32 today]

**SUN 23:00 BBC News (w172xzk2pf7i3vx)**

The latest five minute news bulletin from BBC World Service.

**SUN 23:06 Deeply Human (w3ct3hgy)**

[Repeat of broadcast at 10:06 today]

**SUN 23:30 BBC News Summary (w172xzk44vh49)**

The latest two minute news summary from BBC World Service.

**SUN 23:32 Comedians vs. the News (w3ct3jsv)**

Comedians vs YOUR News, with Daniel Sosa and Njambi McGrath

Mexican stand-up Daniel Sosa and British Kenyan comedian Njambi McGrath join Jess Salomon and Eman El-Husseini to take on the funny and curious headlines shared by BBC World Service listeners and fans around the world.

They'll be asking why some NGOs in Kenya risk being de-registered and finding out about the Mexican politician who fell off his chair during a live stream.

Join #ComediansvsThenews for the funniest take on the headlines you've heard this week.

**MONDAY 21 MARCH 2022**

**MON 00:00 BBC News (w172xzk31pjy2w6)**

The latest five minute news bulletin from BBC World Service.

**MON 00:06 The Newsroom (w172xyy0pcp0pvg)**

The world's Newsroom brings you global events as they happen

**MON 00:30 BBC News Summary (w172xzkxf4mg4l)**

The latest two minute news summary from BBC World Service.

**MON 00:32 Heart and Soul (w3ct41vd)**

[Repeat of broadcast at 12:06 on Saturday]

**MON 01:00 BBC News (w172xzk31pjy6mb)**

The latest five minute news bulletin from BBC World Service.

**MON 01:06 World Business Report (w172xzlqy4r9tsl)**

China sees its largest Covid-19 spike in two years

First on the programme - we look at how as parts of the globe are abandoning restrictions, areas of China are back in lockdown in the face of rising case numbers. It's affecting the north-eastern region of Jilin, and also the southern city of Shenzhen, which is a key manufacturing centre. Andy Xie is an independent economist based in Shanghai. He explained what was happening.

Next - the relationship between the Russian and Chinese leaders is exceptionally close, but if China were to assist Russia more directly, what would the consequences be on the global stage? Edward White is China Correspondent for the Financial Times talks us through the current tensions between The West and China.

We then spoke to our regular analyst, Michael Hughes, and we addressed the widely circulating theory that - economically - we've returned to a previous age.

We then hear from Ann Soy of The BBC's Focus on Africa programme discussing food shortages in Africa as a consequence of the Ukraine crises with the United States Ambassador the UN, Linda Thomas Greenfield.

Lastly, for weeks now on World Business Report we've been looking at the Ukraine conflict, western sanctions on Russia and the effects on the economy there. There's a real danger of talking about high level political discussions and quoting a lot of big numbers, but losing track of how this actually affects ordinary people in the country. In this edition of The World Business report we spoke to two online bloggers, who make videos explaining Russian life to the rest of the world.

Producer: Gabriele Shaw | Presenter: David Harper

(PICTURE: a chess piece with a Russian flag and a chess piece with a US flag. CREDIT: Getty)

**MON 01:30 BBC News Summary (w172xzkxf4mkwq)**

The latest two minute news summary from BBC World Service.

**MON 01:32 Discovery (w3ct3jzf)**

Tooth and Claw: Wolves

We look at wolves and the programme is a little different, because the predator we're talking about is very much a predator of our imaginations. Wolves are the spirit of the wilderness, but they also symbolize the darker side of human nature, and many myths and legends surround the wolf from all around the world.

Our fear of the wolf may be primeval, but it is still very much alive and well. The idea that wolves could be reintroduced in Scotland led to headlines about the British Queen's pet corgis being eaten...

So today, as well as hearing about the real animals, we ask why wolves occupy this special place in our imagination, and whether the real and the imaginary overlap with Dr Elizabeth Dearnley, a folklorist and writer based in Edinburgh and Dr Giulia Bombieri from the Museum of Science in Trento, Giulia works with the Life WolfAlps project, tracking and protecting Italian wolves.

Presenter: Adam Hart  
Producer: Geraldine Fitzgerald

Picture credit: Giulia Bombieri

**MON 02:00 BBC News (w172xzk31pjybeg)**

The latest five minute news bulletin from BBC World Service.

**MON 02:06 The Newsroom (w172xyy0pcp0ybg)**

The world's Newsroom brings you global events as they happen

**MON 02:30 BBC News Summary (w172xzkxf4mpmv)**

The latest two minute news summary from BBC World Service.

**MON 02:32 The Climate Question (w3ct2ds0)**

Can we rely on insurance to help rebuild after extreme weather?

Scientists say extreme weather is intensifying and becoming more frequent because of climate change and the impacts are causing huge losses.

People living in Brisbane and other parts of eastern Australia dealt with those impacts recently, when heavy rain fell for days - destroying thousands of homes and at least 22 people are known to have died.

Authorities declared it a once in a 100-year-event, making it the second disaster of its kind in the same area in just 11 years. While insurers face losses trying to cover it all, reinsurers say climate change is now a number one risk.

We talk to residents in Brisbane as they clean up after the floods and ask if insurance can be the world's safety net as the impacts of climate change intensify?

Presenters Jordan Dunbar and Kate Lamble are joined by:

Ernst Rauch, chief geo and climate scientist, Munich Re  
Robin McConchie, reporter based in Brisbane.  
Ekerete Olowoye Gam-Ikon, insurance strategy consultant  
Maryam Golnaraghi, director, climate change and environment, the Geneva Association

Producer: Darin Graham  
Reporter: Robin McConchie  
Researchers: Lizzie Frisby, Frances Read, Natasha Fernandes, Perisha Kudhail  
Series producer: Alex Lewis  
Editor: Nicola Addyman  
Sound engineer: Tom Brignell

**MON 03:00 BBC News (w172xzk31pjy3l)**

The latest five minute news bulletin from BBC World Service.

**MON 03:06 Deeply Human (w3ct3hgy)**

[Repeat of broadcast at 10:06 on Sunday]

**MON 03:30 BBC News Summary (w172xzkxf4mtcz)**

The latest two minute news summary from BBC World Service.

**MON 03:32 The Explanation (w3ct3tpy)**

[Repeat of broadcast at 09:32 on Saturday]

**MON 03:50 More or Less (w3ct2dlh)**

Pizza and nuclear war

The War in Ukraine has reminded the world how easily conflict might escalate into a nuclear war. But according to Professor

Barry Nalebuff of Yale University, good strategy and negotiating can help us with everything from avoiding Armageddon to dividing up a pizza fairly.

Tim Harford talks to Barry Nalebuff about his new book, "Split the Pie".

Presenter: Tim Harford  
Producer: Lizzy McNeill

**MON 04:00 BBC News (w172xzk31pjykvq)**

The latest five minute news bulletin from BBC World Service.

**MON 04:06 The Newsroom (w172xyy0pcp15tz)**

The world's Newsroom brings you global events as they happen

**MON 04:30 BBC News Summary (w172xzkxf4my43)**

The latest two minute news summary from BBC World Service.

**MON 04:32 The Conversation (w3ct1pb0)**

Powered by women: Wind turbines

Kim Chakanetsa talks to two engineers from Brazil and Kenya about generating energy for the future.

Wangari Muchiri is based in Nairobi. Wangari works for the Global Wind Energy Council and is coordinating the wind industry's efforts across the African continent. As well as monitoring the construction of vast wind power plants, she works with donors, government agencies and local communities to deliver innovative sustainable energy projects in rural areas.

Luany Gomes Dantas is based in Rio de Janeiro, working on global floating offshore wind projects for OWC, an ABL company. Luany is a naval architect and marine engineer. She's monitoring the Brazilian offshore wind market and supporting the business development of the sector in the country.

Produced by Jane Thurlow

(Image: (L), Wangari Muchiri, courtesy Wangari Muchiri. (R), Luany Dantas, courtesy Luany Dantas)

**MON 05:00 BBC News (w172xzk31pjyplv)**

The latest five minute news bulletin from BBC World Service.

**MON 05:06 Newsday (w172xv368zcrml)**

Ukraine rejects Russian ultimatum to surrender Mariupol

After several days of bombardment from Russian troops, Ukraine has rejected a Russian ultimatum for the surrender of Mariupol. Ukraine's Deputy Prime Minister said there can be no question of soldiers laying down their arms in the besieged city. The defence ministry in Moscow admitted that a terrible humanitarian catastrophe was unfolding in Mariupol, which has been largely destroyed by Russian bombs and shells.

The number of Ukrainians displaced by Russia's invasion has passed ten million, almost a quarter of the population.

And we'll hear from the Ukrainian MP and Mother who has picked up a rifle to defend her country.

**MON 06:00 BBC News (w172xzk31pjytbz)**

The latest five minute news bulletin from BBC World Service.

**MON 06:06 Newsday (w172xv368zxcwq)**

Ukrainian government rejects Mariupol ultimatum

Ukraine has rejected a Russian ultimatum for the surrender of Mariupol, saying there can be no question of soldiers laying down their arms in the besieged city.

We explore how the conflict in Ukraine is being viewed by Moscow.

Also in the programme, we'll hear from a Ukrainian woman who talks about her elderly mother being trapped in the city of Mariupol.

**MON 07:00 BBC News (w172xzk31pjy33)**

The latest five minute news bulletin from BBC World Service.

**MON 07:06 Newsday (w172xv368zxd03v)**

Ukraine will not surrender Mariupol

Ukraine has rejected a Russian deadline to surrender the besieged city of Mariupol in return for safe passage for its defenders.

We'll go to the western city of Lviv in Ukraine, which had been considered relatively safe, until now.

And we'll take you to North Moreton, it's been described as Britain's kindest village for its efforts to host Ukrainian refugees.

**MON 08:00 BBC News (w172xzk31pjzlv7)**

The latest five minute news bulletin from BBC World Service.

**MON 08:06 The Climate Question (w3ct2ds0)**

[Repeat of broadcast at 02:32 today]

**MON 08:30 BBC News Summary (w172xzkxf4nf3m)**

The latest two minute news summary from BBC World Service.

**MON 08:32 Business Daily (w3ct1j67)**

Brazil at work: Black and held back

Despite the quotas and positive discrimination, many black Brazilian professionals still struggle to feel accepted and get promoted.

Ivana Davidovic hears from Luiza Trajano - Brazil's richest woman and the owner of the country's largest retailer, Magazine Luiza - who explains why she decided to launch a coveted management trainee scheme for black people only. Former model and director of the Identities of Brazil Institute NGO, Luana Genot, talks about her own experiences of being held back because of the colour of her skin and her work helping companies change their culture around black staff.

Alabe Nujara recalls being the first in his family to go to university and feeling out of place as a black man, which inspired him to successfully campaign for the introduction of quotas for historically disadvantaged students at federal institutions. Plus Brazilian sociologist Graziella Moraes Silva discusses why Brazil has an image of a racially inclusive society, which many black people would not recognise as their reality.

(Picture: Worried young businesswoman in office corridor in Brazil; Credit: Getty Images)

**MON 08:50 Witness History (w3ct1x2b)**

The Chernobyl nuclear disaster

In April 1986 a reactor exploded at the Chernobyl nuclear power plant in Ukraine, in the USSR, causing the worst nuclear accident ever. Sergiy Mirmiy was in charge of a monitoring unit which measured radiation levels in the 30 km exclusion zone around the plant.

PHOTO: The Chernobyl plant shortly after the explosion in 1986 (Getty Images)

**MON 09:00 BBC News (w172xzk31pjz5lc)**

The latest five minute news bulletin from BBC World Service.

**MON 09:06 The Newsroom (w172xyy0pcp1skm)**

The world's Newsroom brings you global events as they happen

**MON 09:30 BBC News Summary (w172xzkxf4njvr)**

The latest two minute news summary from BBC World Service.

**MON 09:32 CrowdScience (w3ct1prx)**

Is maths real?

Faced with one cake and eight hungry people, it's pretty obvious how maths underpins reality. But as mathematics gets further from common sense and into seemingly abstract territory, nature still seems to obey its rules - whether in the orbit of a planet, the number of petals on a flower, or the structure of an atom.

But what exactly is the relationship between mathematics and reality? That's the impossibly difficult question CrowdScience has been set this week by our listener Sergio in Peru. It's one that's been pondered by humans for millennia: the Greek philosopher Pythagoras believed "All is number".

Is maths a human construct to help us make sense of reality - a tool, a model, a language? Does maths create its own reality? Or is it reality itself?

CrowdScience explores these questions with the help of experts from the fields of philosophy, mathematics and science: Dr Eleanor Knox, Dr Eugenia Cheng, Professor Lucie Green, Alex Bellos and Stefano Centineo.

Presenter: Marnie Chesterton

Produced by Cathy Edwards for the BBC World Service

(Photo: A young woman with her eyes closed standing in front of chalkboard, working out maths formulas. Credit: Getty Images)

**MON 10:00 BBC News (w172xzk31pjzfbh)**

The latest five minute news bulletin from BBC World Service.

**MON 10:06 The Cultural Frontline (w3ct1pv3)**

[Repeat of broadcast at 22:32 on Saturday]

**MON 10:30 BBC News Summary (w172xzkxf4nnlw)**

The latest two minute news summary from BBC World Service.

**MON 10:32 World of Wisdom (w3ct2zwp)**

[Repeat of broadcast at 05:32 on Saturday]

**MON 10:50 More or Less (w3ct2dlh)**

[Repeat of broadcast at 03:50 today]

**MON 11:00 BBC News (w172xzk31pjzfm)**

The latest five minute news bulletin from BBC World Service.

**MON 11:06 The Newsroom (w172xyy0pcp211w)**

The world's Newsroom brings you global events as they happen

**MON 11:30 BBC News Summary (w172xzkxf4nse0)**

The latest two minute news summary from BBC World Service.

**MON 11:32 The Conversation (w3ct1pb0)**

[Repeat of broadcast at 04:32 today]

**MON 12:00 BBC News (w172xzk31pjzjtr)**

The latest five minute news bulletin from BBC World Service.

**MON 12:06 Outlook (w3ct1jvk)**

I survived an avalanche, but the real challenge came after

In his early twenties, Joe Yelverton and two friends climbed Eagle Peak in the Chugach mountain range in Alaska. His life changed in an instant when an avalanche hit them, killing his best friend Steve. For years afterwards, Joe's life was characterised by anxiety, depression and post-traumatic stress disorder. But with friendship, photography and an unwavering love of the wilderness, Joe found healing and peace in the Chugach again.

For advice available online, go to [bbc.co.uk/actionline](http://bbc.co.uk/actionline).

Get in touch: [outlook@bbc.com](mailto:outlook@bbc.com)

Presenter: Emily Webb  
Producer: May Cameron

(Photo: Joe Yelverton. Credit: Joe Yelverton)

**MON 12:50 Witness History (w3ct1x2b)**

[Repeat of broadcast at 08:50 today]

**MON 13:00 BBC News (w172xzk31pjzknw)**

The latest five minute news bulletin from BBC World Service.

**MON 13:06 The Newsroom (w172xyy0pcp28k4)**

The world's Newsroom brings you global events as they happen

**MON 13:30 BBC News Summary (w172xzkxf4p0v8)**

The latest two minute news summary from BBC World Service.

**MON 13:32 CrowdScience (w3ct1prx)**

[Repeat of broadcast at 09:32 today]

**MON 14:00 BBC News (w172xzk31pjzsb0)**

The latest five minute news bulletin from BBC World Service.

**MON 14:06 Newshour (w172xv5nm3sgrmm)**

Mariupol escape routes 'blocked'

Ukraine says Russia is blocking a humanitarian corridor out of the besieged port of Mariupol after it refused to surrender the

city. We hear from one woman who managed to escape three days ago, through Russian checkpoints.

Also, the British-Iranian woman Nazanin Zaghari-Ratcliffe was allowed to return home to the UK last week - but what about another foreign prisoner left behind? And a BBC Africa Eye team goes undercover to investigate why Kenya's roads are so deadly, and discovers corruption is part of the story.

(Photo: Local residents of the besieged southern port city of Mariupol, Ukraine, shelter from Russian bombardment, March 20, 2022 / Credit: Axander Ermochenko/Reuters)

**MON 15:00 BBC News (w172xzk31pjzx24)**

The latest five minute news bulletin from BBC World Service.

**MON 15:06 HARDtalk (w3ct1n77)**

Kadri Simson: Putin and Europe's energy

With every month that passes, European nations continue to pour billions of dollars into Vladimir Putin's coffers thanks to the continent's continued reliance on Russian oil and gas. Stephen Sackur is in Brussels to speak to the EU Commissioner for Energy, Kadri Simson. Can Putin continue to count on Europe's addiction to his oil and gas?

**MON 15:30 BBC News Summary (w172xzkxf4p8bj)**

The latest two minute news summary from BBC World Service.

**MON 15:32 World Business Report (w172y48hbhk45z)**

Russian shoppers face shortages of some basic goods

As Russia's war in Ukraine enters its second month, some essential goods - like sugar, flour, and rice - are becoming tougher to find, and much more expensive. Some regions have imposed limits on how much of certain staples customers can buy. The Russia editor of BBC Monitoring, Vitaliy Shevchenko, tells us what is and isn't on the shelves. Chris Weafer from the Moscow-based consultancy Macrow Advisory, explains to what extent we can blame Western sanctions for the shortages. And in Egypt, food prices are also on everyone's mind. Today the government in Cairo has imposed a cap on the cost of bread in shops. Maghdi Abdelhadi, a writer and broadcaster in Cairo, explains the huge importance of bread in Egypt. And a special report from the BBC's Ivana Davidovic looks at the issue of racism in Brazilian business. Positive discrimination or affirmative action policies have been in place there for several years, but many black Brazilian professionals say they still struggle to feel accepted and get promoted.

(Photo: A woman browses nearly empty shelves in a Moscow supermarket, Credit: Konstantin Zavrzhin/Getty)

**MON 16:00 BBC News (w172xzk31pk00t8)**

The latest five minute news bulletin from BBC World Service.

**MON 16:06 BBC OS (w172xxy240ng0rq)**

Ukraine: President Zelensky rejects ultimatums

President Volodymyr Zelensky has told media, Ukraine will never bow to ultimatums from Russia and no city will accept Russian occupation. Ukraine earlier ignored Russia's demand to give up the besieged city of Mariupol. We'll get updates from our correspondents about the situation across the country.

We also hear from people who have managed to flee Mariupol during the siege and from people who still have family members in the city. President Zelensky has also accused Russia of war crimes in Mariupol, where heavy fighting has reached the city centre.

We'll find out from our experts who verify data and videos coming into us what is now known about Russian military losses. And we hear conversations with people across Europe who are helping to house Ukrainian refugees.

In other news, we'll cover today's main stories about Covid-19 and get details about an air crash in China. All 132 people on board are feared dead after a China Eastern Airlines Boeing 737-800 crashed into a hill in the southwest of the country.

(Photo: Ukrainian President Volodymyr Zelensky in Kyiv. Credit: Reuters/Umit Bektas)

**MON 17:00 BBC News (w172xzk31pk04kd)**

The latest five minute news bulletin from BBC World Service.

**MON 17:06 BBC OS (w172xxy240ng4hv)**

Ukraine: President Zelensky rejects ultimatums

President Volodymyr Zelensky has told media, Ukraine will

never bow to ultimatums from Russia and no city will accept Russian occupation. Ukraine earlier ignored Russia's demand to give up the besieged city of Mariupol. We'll get updates from our correspondents about the situation across the country.

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(Photo: Ukrainian President Volodymyr Zelensky in Kyiv. Credit: Reuters/Umit Bektas)

**MON 18:00 BBC News (w172xzk31pk089j)**

The latest five minute news bulletin from BBC World Service.

**MON 18:06 BBC OS (w172xxy240ng87z)**

Ukraine: President Zelensky rejects ultimatums

President Volodymyr Zelensky has told media, Ukraine will never bow to ultimatums from Russia and no city will accept Russian occupation. Ukraine earlier ignored Russia's demand to give up the besieged city of Mariupol. We'll get updates from our correspondents about the situation across the country.

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(Photo: Ukrainian President Volodymyr Zelensky in Kyiv. Credit: Reuters/Umit Bektas)

**MON 19:00 BBC News (w172xzk31pk0d1n)**

The latest five minute news bulletin from BBC World Service.

**MON 19:06 The Newsroom (w172xxy0pcp300x)**

The world's Newsroom brings you global events as they happen

**MON 19:30 BBC News Summary (w172xzkxf4prb1)**

The latest two minute news summary from BBC World Service.

**MON 19:32 Sport Today (w172y0nw38j37w0)**

2022/03/21 GMT

BBC sports correspondents tell the story behind today's top sporting news, with interviews and reports from across the world.

**MON 20:00 BBC News (w172xzk31pk0hss)**

The latest five minute news bulletin from BBC World Service.

**MON 20:06 The Climate Question (w3ct2ds0)**

[Repeat of broadcast at 02:32 today]

**MON 20:30 BBC News Summary (w172xzkxf4pw25)**

The latest two minute news summary from BBC World Service.

**MON 20:32 Discovery (w3ct1m98)**

The Life Scientific: Shankar Balasubramanian on decoding DNA

Sir Shankar Balasubramanian is responsible for a revolution in medicine. The method he invented for reading, at speed, the unique genetic code that makes each one of us who we are, is ten million times faster than the technology that was used in the human genome project at the turn of the century. What's more,

it can be done much more cheaply than before and on a desktop machine. And it's transforming healthcare, by helping us to understand the genetic basis of many diseases (particularly cancers) and to develop new diagnostic tests, medicines and personalised treatments.

'DNA has never failed to keep me excited and curious' says Shankar, winner of the highly prestigious 2022 Breakthrough Prize in Life Sciences. He didn't set out to create a game-changing technology or to make a lot of money. He just wanted to understand the DNA double helix in the greatest possible detail; to reveal how it worked, molecule by molecule. And he still rides a rickety old bicycle to work in Cambridge.

Image ©University of Cambridge

**MON 21:00 BBC News (w172xzk31pk0mjx)**

The latest five minute news bulletin from BBC World Service.

**MON 21:06 Newshour (w172xv5nm3shlyj)**

Fighting continues for control of Mariupol

President Volodymyr Zelensky has said that Ukraine will never bow to ultimatums from Russia. Fighting has continued in the Ukrainian city of Mariupol as both sides fight for control. Officials say the death toll in the city has exceeded three thousand.

Also in the programme: the Moscow Stock exchange partially reopens; and the European Union approves a plan to improve the bloc's defences.

(Photo: Refugees from Mariupol in Rostov region 1/03/2022 European Pressphoto Agency)

**MON 22:00 BBC News (w172xzk31pk0r91)**

The latest five minute news bulletin from BBC World Service.

**MON 22:06 The Newsroom (w172xxy0pcp3c89)**

The world's Newsroom brings you global events as they happen

**MON 22:30 BBC News Summary (w172xzkxf4q3kf)**

The latest two minute news summary from BBC World Service.

**MON 22:32 World Business Report (w172yrcx0zmk6wz)**

How is a UK debt to Iran connected to Nazanin Zaghari-Ratcliffe?

First in this edition of The World Business Report - we look into how Nazanin Zaghari-Ratcliffe's release from custody in Iran is linked to the payment of a debt owed by the UK from the 70's. Rowena Abdul-Razak, DPhil in Oriental Studies at the University of Oxford takes up the story.

Then we take a look at the tragic China Eastern Airlines Boeing 737-800 passenger plane crash in southern China. We asked our Business Correspondent Theo Leggat what was known about this crash.

Next, our regular US markets guest Peter Jankowskis of Arbor Financial talked us through what worried investors about Boeing's stock.

As Russia's war in Ukraine enters its second month, some essential goods - like sugar, flour and rice - are becoming harder to find, and much more expensive. Some regions have imposed limits on how much of certain staples customers can buy. The Russia editor of BBC Monitoring, Vitaliy Shevchenko, tells us what is and isn't on the shelves. Chris Weafer from the Moscow-based consultancy Macro Advisory explains to what extent we can blame Western sanctions for the shortages.

Over in Egypt, food prices are also on everyone's mind. The government in Cairo has imposed a cap on the cost of bread in shops. Maghdi Abdelhadi, a writer and broadcaster in Cairo, explains the huge importance of bread in Egypt.

Next, we spoke to David Laborde, Senior Research Fellow at the International Food Policy Research Institute, and asked him first about what is happening in Egypt. He also gave us a deeper look into the importance of wheat.

Producer: Gabriele Shaw | Presenter: Jamie Robertson

(Photo: A Union Jack and an Iranian flag. Credit:Getty)

**MON 23:00 BBC News (w172xzk31pk0w15)**

The latest five minute news bulletin from BBC World Service.

**MON 23:06 HARDtalk (w3ct1n77)**

[Repeat of broadcast at 15:06 today]

**MON 23:30 BBC News Summary (w172zkxhf4q79k)**

The latest two minute news summary from BBC World Service.

**MON 23:32 The Conversation (w3ct1pb0)**

[Repeat of broadcast at 04:32 today]

## TUESDAY 22 MARCH 2022

**TUE 00:00 BBC News (w172zk31pk0zs9)**

The latest five minute news bulletin from BBC World Service.

**TUE 00:06 The Newsroom (w172xyy0pcp3lrk)**

The world's Newsroom brings you global events as they happen

**TUE 00:30 BBC News Summary (w172zkxhf4qc1p)**

The latest two minute news summary from BBC World Service.

**TUE 00:32 The Compass (w3ct3jzh)**

[Repeat of broadcast at 11:32 on Sunday]

**TUE 01:00 BBC News (w172zk31pk13jf)**

The latest five minute news bulletin from BBC World Service.

**TUE 01:06 Business Matters (w172xvqwxffygv4)**

Boeing's share price slides following deadly crash

First we take a look at the tragic China Eastern Airlines Boeing 737-800 passenger plane crash in southern China. Our Business Correspondent Theo Leggett outlines what we know. As Russia's war in Ukraine enters its second month, some essential goods - like sugar, flour and rice - are becoming harder to find and are much more expensive. Some regions have imposed limits on how much of certain staples customers can buy. The Russia editor of BBC Monitoring, Vitaly Shevchenko, tells us what is and isn't on the shelves while Chris Weafer from the Moscow-based consultancy Macro Advisory explains to what extent we can blame Western sanctions for the shortages. In Egypt food prices are also on the rise and the government in Cairo has imposed a cap on the cost of bread in shops. Maghdi Abdelhadi, a writer and broadcaster in Cairo, explains the huge importance of bread in Egypt and we speak to David Laborde, Senior Research Fellow at the International Food Policy Research Institute, about what is happening in Egypt and what might happen to food prices around the world. Rowena Abdul-Razak at the University of Oxford takes up the story of Nazanin Zaghari-Ratcliffe's release from six years in an Iranian prison, and the BBC's Ivana Davidovic takes a look at racial discrimination in Brazil.

Producer: Russell Newlove | Presenter: Jamie Robertson

(IMAGE CREDIT: GETTY)

**TUE 02:00 BBC News (w172zk31pk178k)**

The latest five minute news bulletin from BBC World Service.

**TUE 02:06 The Newsroom (w172xyy0pcp3v7t)**

The world's Newsroom brings you global events as they happen

**TUE 02:30 BBC News Summary (w172zkxhf4qljy)**

The latest two minute news summary from BBC World Service.

**TUE 02:32 The Documentary (w3ct3tpr)**

Why are we having less sex?

Across the world, there has been a recent, steep decline in sexual activity - and amongst the young, the change is particularly stark. With the help of experts, activists and the winners and losers in the mating game, author Jerry Barnett explores why this is happening, and asks where it might lead.

Does easy access to pornography or gaming encourage some men to opt out of the mating game? Are women becoming more selective now that they are under less pressure in some parts of the world to settle down quickly? Does a culture of easy hook-ups and sex work prevent people looking for more meaningful relationships? Jerry talks to people trying to find love, and asks why increasing numbers are giving up. In particular, how some young men identify as involuntarily celibate. Jerry explores why they feel they have been excluded from the chance of sexual relationships.

Ultimately, where might we go next? To a libertine utopia of

free and easy sex for all, a society bitterly divided between the sexual haves and have-nots, or a step towards re-embracing traditional values of monogamy and marriage.

Presenter: Jerry Barnett

Producers: Jerry Barnett/Ashley Byrne

(Photo: A couple in bed looking at mobile phones. Credit: Getty Images)

A Made in Manchester production for the BBC World Service

**TUE 03:00 BBC News (w172zk31pk1c0p)**

The latest five minute news bulletin from BBC World Service.

**TUE 03:06 Outlook (w3ct1jvk)**

[Repeat of broadcast at 12:06 on Monday]

**TUE 03:50 Witness History (w3ct1x2b)**

[Repeat of broadcast at 08:50 on Monday]

**TUE 04:00 BBC News (w172zk31pk1grt)**

The latest five minute news bulletin from BBC World Service.

**TUE 04:06 The Newsroom (w172xyy0pcp42r2)**

The world's Newsroom brings you global events as they happen

**TUE 04:30 BBC News Summary (w172zkxhf4qv16)**

The latest two minute news summary from BBC World Service.

**TUE 04:32 In the Studio (w3ct1tfh)**

Meron Hadero: Inside the mind of a writer

Ethiopian-American writer Meron Hadero, winner of the Caine Prize for African Writing in 2021, is about to publish her debut short story collection, *A Down Home Meal for These Difficult Times*. But how exactly does one bring a collection of short stories to light?

In conversation with presenter Sonia Paul, Meron takes us through her process of publishing a story collection and reveals the thought process behind every decision. From determining which stories to include and the order of the stories so that they create a whole other "meta story", to deciding on a book cover, working through edits, inviting other authors to write blurbs, and deciding on acknowledgements and dedications, she reveals the complex process behind her latest publication.

Presenter/producer: Sonia Paul

Executive producer: by Rebecca Armstrong

**TUE 05:00 BBC News (w172zk31pk1lhy)**

The latest five minute news bulletin from BBC World Service.

**TUE 05:06 Newsday (w172xv368xzgnjp)**

Putin's back against the wall in Ukraine - Biden

US President Joe Biden says there are clear signs that Vladimir Putin is considering using chemical and biological weapons in Ukraine. He said Putin may consider this since his 'back is up against the wall'.

President Volodymyr Zelensky has again appealed for direct talks with Mr Putin to try to end the fighting.

Meanwhile, Ukrainian cities remain under bombardment, with the city of Mariupol in greatest need.

**TUE 06:00 BBC News (w172zk31pk1q82)**

The latest five minute news bulletin from BBC World Service.

**TUE 06:06 Newsday (w172xv368xzgs8t)**

Biden warns that Russia may resort to chemical or biological weapons

President Biden says Vladimir Putin has his "back against the wall" in Ukraine -- and there are clear signs that the Russian leader is considering using chemical and biological weapons.

Also in the programme, the members of the Belarusian opposition heading to Ukraine to fight the Russians.

And the diplomatic campaign being waged by Ukraine to keep up pressure on Moscow.

**TUE 07:00 BBC News (w172zk31pk1v06)**

The latest five minute news bulletin from BBC World Service.

**TUE 07:06 Newsday (w172xv368xzg0y)**

Russian navy bombards Ukraine

As fighting intensifies in Ukraine, the Russian navy is joining the fight. It's been bombarding coastal cities but is holding back on an amphibious operation to capture Odessa.

We'll also hear how the blockade of Ukraine's ports and the interruption of wheat exports is causing food supply problems in Africa.

And we'll hear the tragic story of the holocaust survivor who has been killed by the Russian assault in Ukraine.

**TUE 08:00 BBC News (w172zk31pk1yrb)**

The latest five minute news bulletin from BBC World Service.

**TUE 08:06 People Fixing The World (w3ct1pmc)**

Making hospitals less stressful

Hospitals can make you sicker. It's a strange thought for places that also can make you healthier. But think about the constant noise, the distinctive hospital smell, the bright lights.

There's lots of evidence that most patients find hospitals themselves very stressful. This stress can lead to slower healing times or even a higher chance of being readmitted to hospital.

This week, we look at some interesting work happening around the world to try to improve the hospital environment.

We hear from people who are using nature to heal, are redesigning lighting systems and are blocking out the noise. And by learning what stresses humans out, we can learn a lot about how our bodies recover and heal.

Presenter: Myra Anubi

Reporter/producer: Charlotte Pritchard

**TUE 08:30 BBC News Summary (w172zkxhf4rb0q)**

The latest two minute news summary from BBC World Service.

**TUE 08:32 Business Daily (w3ct1jh8)**

The women fleeing Ukraine

Two young women recall how they fled the Russian invasion of their homeland, and discuss their hopes and dreams for the future.

Alexandra from Kyiv tells Tamasin Ford how she had to say goodbye to her parents at the packed Polish border, and now suffers survivor's guilt, living in the safety of Berlin. Meanwhile Elena recalls the first explosions of the war, and describes how she now finds herself the sole breadwinner for her family, living in exile in Warsaw.

Producers: Sarah Treanor and Tom Kavanagh

(Picture: Refugees from Ukraine at the Medyka border crossing with Poland; Credit: Louisa Gouliamaki/AFP via Getty Images)

**TUE 08:50 Witness History (w3ct1x6v)**

The Budapest Memorandum

Following the break-up of the Soviet Union, Ukraine inherited the Soviet-era atomic weapons on its soil and became - for a few years - the world's third biggest nuclear power. After months of tense diplomacy, the newly independent Ukraine agreed to give up the weapons in return for what were termed "assurances" about its future security and territorial integrity. These "assurances" were agreed by Russia, the USA and Britain in the Budapest Memorandum, signed in December 1994. They are now controversial given the Russian invasion of Crimea in 2014 and then the rest of Ukraine in 2022. Louise Hidalgo talks to Steven Pifer, a senior American diplomat involved in the talks.

PHOTO: Pro-Ukrainian demonstrators in London in 2022 (Getty Images)

**TUE 09:00 BBC News (w172zk31pk22hg)**

The latest five minute news bulletin from BBC World Service.

**TUE 09:06 The Newsroom (w172xyy0pcp4pgq)**

The world's Newsroom brings you global events as they happen

**TUE 09:30 BBC News Summary (w172zkxhf4frfv)**

The latest two minute news summary from BBC World Service.

**TUE 09:32 Discovery (w3ct1m98)**

[Repeat of broadcast at 20:32 on Monday]

**TUE 10:00 BBC News (w172xzk31pk267f)**

The latest five minute news bulletin from BBC World Service.

**TUE 10:06 The Arts Hour (w3ct1rvf)**

[Repeat of broadcast at 20:06 on Saturday]

**TUE 11:00 BBC News (w172xzk31pk29zq)**

The latest five minute news bulletin from BBC World Service.

**TUE 11:06 The Newsroom (w172xyy0pcc4xyz)**

The world's Newsroom brings you global events as they happen

**TUE 11:30 BBC News Summary (w172xzkxhf4rp83)**

The latest two minute news summary from BBC World Service.

**TUE 11:32 In the Studio (w3ct1tff)**

[Repeat of broadcast at 04:32 today]

**TUE 12:00 BBC News (w172xzk31pk2fzv)**

The latest five minute news bulletin from BBC World Service.

**TUE 12:06 Outlook (w3ct1jxt)**

Rohan Marley: Bob's rebel son

Rohan Marley grew up in the shadow of a star: his father, reggae legend Bob Marley. When Bob died from cancer in 1981, Rohan went off the rails. He ended up skipping school and was eventually expelled. He got his life back on track and went on to become a star in American football. After embracing Rastafarianism, he left sport and ended up starting a coffee company in his native Jamaica. This interview was first broadcast 2017.

London is a city rich in canals and waterways. If you take a walk down the Regent's Canal, just behind King's Cross train station, you might bump into a boat covered in ivy and books. It's the home of book enthusiast Jonathan Privett, who has been bringing literature to unexpected places for most of his life. In 2017, he shared his story with Emily Webb.

When Dr Abbas Quamar was a child growing up in India he had one dream: to learn to fly. Despite financial challenges, he succeeded, graduating flying school at the top of his class. But on his first flight as a qualified pilot, Abbas – known to friends and family as Bobby – was involved in a freak mid-air accident that resulted in him losing his sight aged just 21. He tells Outlook how he rebuilt his life, and eventually managed to replace his dreams of flight with new ambitions and successes.

Get in touch: outlook@bbc.com

Presenter: Emily Webb

(Photo: Rohan Marley. Credit: Lou Bopp)

**TUE 12:50 Witness History (w3ct1x6v)**

[Repeat of broadcast at 08:50 today]

**TUE 13:00 BBC News (w172xzk31pk2kgz)**

The latest five minute news bulletin from BBC World Service.

**TUE 13:06 The Newsroom (w172xyy0pcc55g7)**

The world's Newsroom brings you global events as they happen

**TUE 13:30 BBC News Summary (w172xzkxhf4rxrc)**

The latest two minute news summary from BBC World Service.

**TUE 13:32 Discovery (w3ct1m98)**

[Repeat of broadcast at 20:32 on Monday]

**TUE 14:00 BBC News (w172xzk31pk2p73)**

The latest five minute news bulletin from BBC World Service.

**TUE 14:06 Newshour (w172xv5nm3sknjq)**

Zelensky: Ukraine 'on the brink of survival'

President Zelensky has told Italian MPs that Ukraine is "on the brink of survival". We hear how civilians in the Eastern city of Kharkiv are living through Russian bombardment. Meanwhile, in Russia, the jailed Kremlin critic - Alexei Navalny - has been sentenced to nine years in a maximum security prison. We bring you the latest on Russia's war in Ukraine.

Also on the programme: Somalia faces an impending food crisis; and the history-making Supreme Court confirmation hearings in Washington.

(Photo: Russian shelling has destroyed many buildings in Kharkiv, Ukraine. Credit: Reuters)

**TUE 15:00 BBC News (w172xzk31pk2sz7)**

The latest five minute news bulletin from BBC World Service.

**TUE 15:06 People Fixing The World (w3ct1pmc)**

[Repeat of broadcast at 08:06 today]

**TUE 15:30 BBC News Summary (w172xzkxhf4s7m)**

The latest two minute news summary from BBC World Service.

**TUE 15:32 World Business Report (w172y4bynm9pycy)**

Tesla's first European factory opens in Germany

Tesla's first European production facility is officially open. Elon Musk was at the opening ceremony - alongside the German Chancellor, Olaf Scholz - to see the first Model Y electric cars roll out of the so-called gigafactory. The Gruenheide plant outside Berlin has cost 5 billion euros - and it's had some bureaucratic hitches, as Joe Miller from the Financial Times explains. Spain's Prime Minister, Pedro Sanchez, has said that it's 'not logical' that Spain pays for all its electricity at a unit price dictated by the gas market when nearly half of its electricity actually comes from the renewable sector. To understand why that happens, we speak to Simone Tagliapietra, senior fellow at the European economic think-tank Bruegel.

And we hear a special report from the BBC's Tamasin Ford about a young Ukrainian woman from Kyiv. Alexandra explains how she had to say goodbye to her parents at the packed Polish border, and is now suffering from survivor's guilt, living in the safety of Berlin.

(Photo: Tesla's new factory in Gruenheide. Credit: Christian Marquardt/Getty Images)

**TUE 16:00 BBC News (w172xzk31pk2xqc)**

The latest five minute news bulletin from BBC World Service.

**TUE 16:06 BBC OS (w172xxy240njxnt)**

Ukraine: President Zelensky says country 'on the brink of surviving'

It has been almost four weeks since the Russian invasion of Ukraine, and cities across the country are under attack. We speak to our correspondents across Ukraine to bring the latest breaking news, global reaction, and personal stories from the heart of the war.

We also bring you conversations with people whose lives have been greatly affected by the invasion. Today we hear from Russians who have left their country since the invasion started. We discuss why they left Russia, and how they feel about the war.

Also, there has been lots of interest online about super yachts owned by Russians who have been sanctioned - including one owned by Chelsea owner Roman Abramovich, and one possibly owned by President Putin. So what will happen to these boats now? We speak to our reality check team to find out.

(Photo: Women from Kharkiv are reunited with their friend from Chernihiv in Ukraine after fleeing to Romania, 22 March, 2022. Credit: Clodagh Kilcoyne/Reuters)

**TUE 17:00 BBC News (w172xzk31pk31gh)**

The latest five minute news bulletin from BBC World Service.

**TUE 17:06 BBC OS (w172xxy240nk1dy)**

Ukraine: President Zelensky says country 'on the brink of surviving'

It has been almost four weeks since the Russian invasion of Ukraine, and cities across the country are under attack. We speak to our correspondents across Ukraine, bring you the latest breaking news, global reaction, and personal stories from the heart of the war.

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owned by Chelsea owner Roman Abramovich, and one possibly owned by President Putin. So what will happen to these boats now? We speak to our reality check team to find out.

(Photo: Ivan Iustushenko, age five, is wrapped in a Ukrainian flag by his grandmother after fleeing from Mariupol in Ukraine to Romania, 22 March, 2022. Credit: Clodagh Kilcoyne/Reuters)

**TUE 18:00 BBC News (w172xzk31pk356m)**

The latest five minute news bulletin from BBC World Service.

**TUE 18:06 BBC OS (w172xxy240nk552)**

Ukraine: President Zelensky says country 'on the brink of surviving'

It has been almost four weeks since the Russian invasion of Ukraine, and cities across the country are under attack. We speak to our correspondents across Ukraine, bring you the latest breaking news, global reaction, and personal stories from the heart of the war.

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(Photo: Women from Kharkiv are reunited with their friend from Chernihiv in Ukraine after fleeing to Romania, 22 March, 2022. Credit: Clodagh Kilcoyne/Reuters)

**TUE 19:00 BBC News (w172xzk31pk38yr)**

The latest five minute news bulletin from BBC World Service.

**TUE 19:06 The Newsroom (w172xxy0pcc5wy0)**

The world's Newsroom brings you global events as they happen

**TUE 19:30 BBC News Summary (w172xzkxhf4sn74)**

The latest two minute news summary from BBC World Service.

**TUE 19:32 Sport Today (w172y0nw38j64s3)**

2022/03/22 GMT

BBC sports correspondents tell the story behind today's top sporting news, with interviews and reports from across the world.

**TUE 20:00 BBC News (w172xzk31pk3dpw)**

The latest five minute news bulletin from BBC World Service.

**TUE 20:06 The Documentary (w3ct3tpr)**

[Repeat of broadcast at 02:32 today]

**TUE 20:30 BBC News Summary (w172xzkxhf4srz8)**

The latest two minute news summary from BBC World Service.

**TUE 20:32 Digital Planet (w3ct1lkt)**

Splinternet Risks

The shifting geopolitical economics following Russia's invasion of Ukraine has led to the reappearance of the word "Splinternet". In recent years some countries have created the physical infrastructure to potentially run many internet services outside of the reach of the global network of networks most people know as the internet. As sanctions are imposed, popular websites and social networks blocked, and economic lines are drawn, could some countries like Russia and China withdraw completely, developing different protocols of connection within their borders - and maybe beyond - that might become incompatible with those of the current internet? Emma Taylor, CEO of Oxford Information Labs, drops into Digital Planet to discuss the fears.

When scientists analyze fallen meteorites they provide invaluable clues about the history of our solar system. Antarctica is a good place to look as they are seldom disturbed, and arguably easier to spot. Yet it is a vast and hard to access area. Could big data and AI provide a guide to help researchers know where to look? Veronica Tollenaar and colleagues at the Glaciology Laboratory at the Université libre de Bruxelles, in Belgium think so. In a recent paper in the journal Science Advances, Veronica and her colleagues have described their

algorithm for constructing a "where to go" list, rather like a treasure map, to rank the locations most likely to bear the rocky treasure.

Whilst most games are obviously played for fun, many of them sure can feel like unrelenting hard work. Hours spent to "win" trophies or "earn" credits, are increasingly "sold" or transferred between players within these games. Could NFTs transform these sorts of activities into new economic structures? BBC's Chris Berron reports.

Presented by Gareth Mitchell with expert commentary from Ghislaine Boddington.

Technical Production by Giles Aspen  
Produced by Alex Mansfield

**TUE 21:00 BBC News (w172xzk31pk3jg0)**  
The latest five minute news bulletin from BBC World Service.

**TUE 21:06 Newshour (w172xv5nm3slhrm)**  
Ukraine: What does "survival" mean?

As survivors describe the besieged city of Mariupol as "Hell", President Volodymyr Zelensky has said his country is "on the brink of survival".

Also on the programme, The Kremlin's most prominent critic, Alexei Navalny, has been given nine years in what is called a "strict regime penal colony" adding to charges that many see as politically motivated. And, among the foreign fighters heading to Ukraine to fight against Russia are dissidents from Belarus who see the war as a battle both against Vladimir Putin's forces but also against the regime of the Belarusian President Alexander Lukashenko, which has heavily backed Moscow.

(Photo: Ukrainian President Zelensky addresses members of the Italian Parliament 22/03/2022 European Pressphoto Agency)

**TUE 22:00 BBC News (w172xzk31pk3n64)**  
The latest five minute news bulletin from BBC World Service.

**TUE 22:06 The Newsroom (w172xy0pcp685d)**  
The world's Newsroom brings you global events as they happen

**TUE 22:30 BBC News Summary (w172xzkxhf40gj)**  
The latest two minute news summary from BBC World Service.

**TUE 22:32 World Business Report (w172yqsgq7bf7c)**  
Tesla's first European factory opens in Germany

Tesla's first European production facility is officially open. Elon Musk was himself on hand for the opening ceremony - alongside the German Chancellor, Olaf Scholz - to see the first Model Y electric cars roll out of the so-called gigafactory. We hear from Joerg Steinbach, the Finance minister for the state of Brandenburg, where the plant has been built and we also get the views of Natalie Sauber, Director for Future Mobility at the global design and engineering firm Arcadis. And we hear a special report from the BBC's Tamasin Ford about a young Ukrainian woman from Kyiv. Alexandra explains how she had to say goodbye to her parents at the packed Polish border, and now suffers survivor's guilt, living in the safety of Berlin. Plus, Malaysia's finance minister, Zafrul Aziz is currently in London, speaking to UK businesses about investment opportunities in his country - he tells us what he thinks those opportunities are. (Photo: Tesla's new factory in Gruendeide, Credit: Christian Marquardt/Getty Images)

**TUE 23:00 BBC News (w172xzk31pk3ry8)**  
The latest five minute news bulletin from BBC World Service.

**TUE 23:06 People Fixing The World (w3ct1pmc)**  
[Repeat of broadcast at 08:06 today]

**TUE 23:30 BBC News Summary (w172xzkxhf446n)**  
The latest two minute news summary from BBC World Service.

**TUE 23:32 In the Studio (w3ct1tfh)**  
[Repeat of broadcast at 04:32 today]

### WEDNESDAY 23 MARCH 2022

**WED 00:00 BBC News (w172xzk31pk3wpd)**  
The latest five minute news bulletin from BBC World Service.

**WED 00:06 The Newsroom (w172xy0pcp6hnn)**  
The world's Newsroom brings you global events as they happen

**WED 00:30 BBC News Summary (w172xzkxhf47ys)**  
The latest two minute news summary from BBC World Service.

**WED 00:32 Assignment (w3ct1gyt)**  
The fate of Russia's soldiers

Most Russians are getting a distorted picture of what Vladimir Putin calls a "special military operation" in Ukraine. Even the use of the words "war" or "invasion" is prohibited and state controlled TV does not acknowledge that Russian troops are attacking civilians. Yet news is filtering back to thousands of mothers of servicemen in the invasion force. Many say their sons were deceived about their mission and are being treated as cannon fodder. The Russian authorities and military commanders remain tight lipped. But Ukraine has posted pictures and videos of the dead and captured Russian soldiers on the internet. For Assignment, Tim Whewell follows the story of one young prisoner of war. He looked so terrified during an interrogation that a Ukrainian woman took pity on him and helped his family to get in touch, even though her own home in Odessa was shelled by Russian forces. Will the 21 year old soldier ever be able to return to his family and could the truth about Russia's defeats and losses change attitudes to the war back home?

Producers: Lucy Ash and Yulia Mineeva

(Image: Pro-Russian service member in an armoured vehicle in the Donetsk region of Ukraine March, 2022. Credit: Reuters/Alexander Ermochenko)

**WED 01:00 BBC News (w172xzk31pk40fj)**  
The latest five minute news bulletin from BBC World Service.

**WED 01:06 Business Matters (w172xvqwxfg1cr7)**  
Musk opens Tesla factory in Germany

The electric car salesman was in Brandenburg as the first vehicles rolled off the line. Germany has a proud history of automobile manufacturing, so how will an American car manufacturer fare in the country? We speak to the finance minister of the state of Brandenburg. The Malaysian finance minister, Zafrul Aziz, is in the UK seeking new investment in his country and reassuring investors that the days of the 1MDB scandal are over. We speak to him on his outlook for the year ahead. The UK and the USA have reached an agreement to drop tariffs on steel put in place during the Trump years and also frees up trade in whiskey, jeans and Harley Davidson motorbikes; the BBC's Dharshini David tells us more. The war in Ukraine continues - Tamasin Ford speaks to refugees caught up in the conflict. Throughout the programme we're joined by Jessica Khine, Business Development Consultant in Malaysia and Tony Nash, CEO of Complete Intelligence and the host of 'The Week Ahead', a weekly Youtube show on markets and geopolitics in Texas.

Photo: Elon Musk in the German Tesla factory Credit: EPA

**WED 02:00 BBC News (w172xzk31pk445n)**  
The latest five minute news bulletin from BBC World Service.

**WED 02:06 The Newsroom (w172xy0pcp6r4x)**  
The world's Newsroom brings you global events as they happen

**WED 02:30 BBC News Summary (w172xzkxhf4thg1)**  
The latest two minute news summary from BBC World Service.

**WED 02:32 The Compass (w3ct3jzj)**  
Emotional Baggage

Halima Begum

Halima Begum is the CEO of the race equality think tank The Runnymede Trust. Her career as a civil rights campaigner began when she formed Women Against Racism in 1993, which was forged by her experiences of being racially abused by the National Front every day she went to school in East London. She reveals just how her mother coped with the threats that the family received on a daily basis. And it how it contrasted sharply with the welcome and love that Halima received from the teachers in her local school.

Her parents had already known conflict in their homeland, as Halima was born two years after the brutal civil war between Bangladesh and Pakistan, which traumatised many Bangladeshis. She tells psychiatrist Henrietta Bowden Jones how those experiences have shaped her life and opinions.

**WED 03:00 BBC News (w172xzk31pk47xs)**  
The latest five minute news bulletin from BBC World Service.

**WED 03:06 Outlook (w3ct1jxt)**  
[Repeat of broadcast at 12:06 on Tuesday]

**WED 03:50 Witness History (w3ct1x6v)**  
[Repeat of broadcast at 08:50 on Tuesday]

**WED 04:00 BBC News (w172xzk31pk4cnx)**  
The latest five minute news bulletin from BBC World Service.

**WED 04:06 The Newsroom (w172xy0pcp6zn5)**  
The world's Newsroom brings you global events as they happen

**WED 04:30 BBC News Summary (w172xzkxhf4ty9)**  
The latest two minute news summary from BBC World Service.

**WED 04:32 The Documentary (w3ct3jyp)**  
Black Music in Europe

Black music in Europe: 1970-1980

Clarke Peters explores a variety of different scenes in the late 1970s and early 1980s. We hear from Alex Wheatle on sound systems in London and Pat Thomas on Burger Highlife in Berlin. We also explore the music of Carte de Séjour in France and hear how singer Marie Daulne escaped conflict in Africa for a new life in Belgium.

Producer: Tom Woolfenden

(Photo: Three men stand next to a Sound System, Notting Hill Carnival, London, UK, 1983. Credit: PYMCA/Universal Images Group/Getty Images)

A Loftus Media production for BBC World Service

**WED 05:00 BBC News (w172xzk31pk4hf1)**  
The latest five minute news bulletin from BBC World Service.

**WED 05:06 Newsday (w172xv368xzkfks)**  
Russian campaign suffering reversals in Ukraine, says US

Continuing our day by day coverage of the war in Ukraine, we hear from a former commander in the Ukrainian navy about beating back Russia's naval assaults on Ukraine's Black Sea coast and the military picture as a whole.

We have heard about the difficulty journeys millions of Ukrainians have made in their efforts to reach safety outside their country, but some groups such as transgender women are facing particular difficulties.

And we hear allegations that Russia has lists of prominent civilians in Ukraine to detain and mistreat.

**WED 06:00 BBC News (w172xzk31pk4m55)**  
The latest five minute news bulletin from BBC World Service.

**WED 06:06 Newsday (w172xv368xzkp5x)**  
Ukraine: Mixed reports on Russian military reversals as conflict continues

With the very latest on the war in Ukraine we hear from a restaurant owner who has picked up a gun to take part in the defence of the Ukrainian capital as reports grow of Russian forces being pushed back in several places.

Poland has had an uncomfortable history with its powerful Russian neighbour, now with armies on the move again across eastern Europe they are preparing for the worst.

And away from the conflict in Ukraine, in a last minute change of plan reflecting the Taliban's commitment to educating women, Afghan schoolgirls have been told not to return to secondary schools today as scheduled.

**WED 07:00 BBC News (w172xzk31pk4qx9)**  
The latest five minute news bulletin from BBC World Service.

**WED 07:06 Newsday (w172xv368xzkssy1)**  
US claims Ukrainian forces are reclaiming ground from Russians

With the American military suggesting that the Ukrainian forces have started making gains against Russian forces the

situation in Mariupol continues to generate concern - the Ukrainian authorities say 100,000 people are trying to flee the city.

As sanctions against Russia begin to bite, there are concerns that Moscow could retaliate by launching cyber attacks on western businesses - the message is that companies should update their cyber protection and remain alert.

And reports from newly-occupied areas of Ukraine indicate that Russian forces have lists of people they want to arrest.

**WED 08:00 BBC News (w172xzk31pk4vnf)**  
The latest five minute news bulletin from BBC World Service.

**WED 08:06 HARDtalk (w3ct1ncr)**  
Francis Fukuyama: The end of the end of history?

Sarah Montague speaks to the renowned US political scientist Francis Fukuyama. Thirty years ago, the Soviet Union collapsed and communist governments fell across Eastern Europe. Liberal democracy appeared to have won the Cold War and triumphed in the battle of ideas. Dr Fukuyama posed a question – if humanity had arrived at the most effective form of government, were we at the end of history? In the years since, liberal democracy has often seemed in retreat. But when Russia invaded Ukraine the world changed again. Francis Fukuyama is convinced that President Putin has miscalculated and is heading for defeat. What does that mean for the course of history and the progress of liberal democracy?

**WED 08:30 BBC News Summary (w172xzkxhf4v6xt)**  
The latest two minute news summary from BBC World Service.

**WED 08:32 Business Daily (w3ct1jq1)**  
Is sustainable finance just greenwash?

ESG funds - which claim to promote environmental, social and corporate governance best practice - are all the rage. But are investors being taken for an expensive ride?

Ed Butler speaks to one man with his doubts - Tariq Fancy, who used to be in charge of sustainability investing at BlackRock, the gigantic fund management firm, whose boss Larry Fink is an advocate for the role that big finance can play in accelerating the transition away from fossil fuels.

Today investors are faced with a confusing menagerie of products that purport to be climate-friendly, as described by Dylan Tanner of the lobbying research firm InfluenceMap. In reality, many of them charge high fees for some pretty questionable environmental benefits. But if investors feel misled, could they find legal recourse in the form of a class action lawsuit? Ed asks Fiona Huntriss of the UK law firm Pallas Partners.

Producer: Victoria Broadbent

(Photo: \$100 bill covered in green paint; Credit: Getty Images)

**WED 08:50 Witness History (w3ct1x93)**  
The Holodomor: Ukraine's great famine

In the 1930s, a combination of bad weather and Soviet policy under Stalin led to a devastating famine in Ukraine. Several million people died in what became known to Ukrainians as The Holodomor. In 2010, Alan Johnston brought together accounts from a survivor and a journalist who visited Ukraine at the time.

(Photo: Ukrainian peasants in Kyiv in 1934. Credit: Getty Images)

**WED 09:00 BBC News (w172xzk31pk4zdk)**  
The latest five minute news bulletin from BBC World Service.

**WED 09:06 The Newsroom (w172xyy0pcp7lct)**  
The world's Newsroom brings you global events as they happen

**WED 09:30 BBC News Summary (w172xzkxhf4vbny)**  
The latest two minute news summary from BBC World Service.

**WED 09:32 Digital Planet (w3ct1ltk)**  
[Repeat of broadcast at 20:32 on Tuesday]

**WED 10:00 BBC News (w172xzk31pk534p)**  
The latest five minute news bulletin from BBC World Service.

**WED 10:06 The Documentary (w3ct3tpq)**  
[Repeat of broadcast at 19:06 on Saturday]

**WED 11:00 BBC News (w172xzk31pk56wt)**  
The latest five minute news bulletin from BBC World Service.

**WED 11:06 The Newsroom (w172xyy0pcp7tw2)**  
The world's Newsroom brings you global events as they happen

**WED 11:30 BBC News Summary (w172xzkxhf4vl56)**  
The latest two minute news summary from BBC World Service.

**WED 11:32 The Documentary (w3ct3jyp)**  
[Repeat of broadcast at 04:32 today]

**WED 12:00 BBC News (w172xzk31pk5bmy)**  
The latest five minute news bulletin from BBC World Service.

**WED 12:06 Outlook (w3ct1k02)**  
The boy band heartthrob who dreamed of writing Viking novels

Giles Kristian was a student in his early twenties when he was catapulted into the world of 90s pop. In 1995 he competed with over 7,500 performers to become the frontman of a new boy band called Upside Down. The creation of the band was the subject of a BBC documentary at the time, but when the programme was broadcast the group faced a backlash for being a manufactured band. Although they went on to have four singles in the British top 20 chart, Upside Down came to an end in 1997. But Giles had always dreamed of being a writer and decided to follow his dream. Focussing on historical fiction he's now sold over a million copies of his novels. His latest book is a thriller called Where Blood Runs Cold.

Get in touch: outlook@bbc.com

Presenter: Emily Webb  
Producers: June Christie and Deiniol Buxton

(Photo: Upside Down. Giles is wearing the lilac jacket. Credit: World Records, courtesy of Giles Kristian)

**WED 12:50 Witness History (w3ct1x93)**  
[Repeat of broadcast at 08:50 today]

**WED 13:00 BBC News (w172xzk31pk5gd2)**  
The latest five minute news bulletin from BBC World Service.

**WED 13:06 The Newsroom (w172xyy0pcp82cb)**  
The world's Newsroom brings you global events as they happen

**WED 13:30 BBC News Summary (w172xzkxhf4vtng)**  
The latest two minute news summary from BBC World Service.

**WED 13:32 Digital Planet (w3ct1ltk)**  
[Repeat of broadcast at 20:32 on Tuesday]

**WED 14:00 BBC News (w172xzk31pk5l46)**  
The latest five minute news bulletin from BBC World Service.

**WED 14:06 Newshour (w172xv5nm3snkft)**  
Afghanistan: Taliban reverse decision to reopen schools for girls

Tens of thousands of girls in Afghanistan have been disappointed as a sudden reversal of policy by the Taliban meant schools were closed down again just after some had reopened. We go LIVE to Kabul for the latest and hear from a young girl, 18 years old, who was sent back home this morning.

Ukraine's president, Volodymyr Zelensky, has accused invading Russian forces of using the area around the Chernobyl nuclear plant to prepare new attacks.

And, we hear from the Batwa people who have been forced from their traditional forest lands in Uganda and accommodated in villages to make way for mountain gorillas.

(Photo: Sakina wants to rebuild her life after last year's bombing and the Taliban takeover. Credit: BBC)

**WED 15:00 BBC News (w172xzk31pk5pw)**  
The latest five minute news bulletin from BBC World Service.

**WED 15:06 HARDtalk (w3ct1ncr)**  
[Repeat of broadcast at 08:06 today]

**WED 15:30 BBC News Summary (w172xzkxhf4w24q)**  
The latest two minute news summary from BBC World Service.

**WED 15:32 World Business Report (w172y4d5t6tjsxz)**  
UK chancellor announces tax cuts as inflation hits 30-year high

In the UK, prices are rising faster than wages and the Bank of England says inflation could hit double digits this year. Chancellor Rishi Sunak, who runs the UK Treasury, announced measures today which he says will help ease the pain for consumers. We speak to Roger Bootle, the chairman of the macro-economic research company Capital Economics, to get his assessment of the Chancellor's response to the cost of living crisis. Meanwhile the Russian president, Vladimir Putin, says Moscow will begin insisting that payments for Russian gas - from unfriendly countries, as he put it - are made in roubles. He's given the Russian central bank a week to find a way of switching these payments away from other currencies. Russ Mould is Investment Director at AJ Bell tells us how it could work and what it could mean for prices. And finally a special report from the BBC's Ed Butler investigates the world of ethical investment, to see just how ethical they really are. (Photo: Chancellor Rishi Sunak leaves 10 Downing Street on his way to deliver his Spring Statement. Credit: Tolga Akmen/Getty)

**WED 16:00 BBC News (w172xzk31pk5tmg)**  
The latest five minute news bulletin from BBC World Service.

**WED 16:06 BBC OS (w172xxy240nmtkx)**  
Ukraine: Nato to boost forces in eastern Europe

We continue to bring the latest of what's happening in Ukraine with personal stories, reaction and analysis of the situation on the ground.

The Taliban in Afghanistan has reversed a decision to allow girls to return to high schools. We hear from our colleagues in the BBC Afghan Service and from the girls and mothers who are devastated about the last-minute move.

And we hear from an Indian-Ukrainian couple in Delhi about their personal experience of the war and their attempts to employ Ukrainians in remote work.

(Photo: Refugees from different places of Ukraine live in a gym hall in the Western Ukrainian city of Lviv, 23 March 2022. Credit: EPA/MYKOLA TYS)

**WED 17:00 BBC News (w172xzk31pk5ycl)**  
The latest five minute news bulletin from BBC World Service.

**WED 17:06 BBC OS (w172xxy240nmyb1)**  
Ukraine: Nato to boost forces in eastern Europe

We continue to bring the latest of what's happening in Ukraine with personal stories, reaction and analysis of the situation on the ground.

The Taliban in Afghanistan has reversed a decision to allow girls to return to high schools. We hear from our colleagues in the BBC Afghan Service and from the girls and mothers who are devastated about the last-minute move.

And we hear from an Indian-Ukrainian couple in Delhi about their personal experience of the war and their attempts to employ Ukrainians in remote work.

(Photo: Refugees from different places of Ukraine live in a gym hall in the Western Ukrainian city of Lviv, 23 March 2022. Credit: EPA/MYKOLA TYS)

**WED 18:00 BBC News (w172xzk31pk623q)**  
The latest five minute news bulletin from BBC World Service.

**WED 18:06 BBC OS (w172xxy240nm225)**  
Ukraine: Nato to boost forces in eastern Europe

We continue to bring you the latest of what's happening in Ukraine with personal stories, reaction and analysis of the situation on the ground.

The Taliban in Afghanistan has reversed a decision to allow girls to return to high schools. We hear from our colleagues in the BBC Afghan Service and from the girls and mothers who are devastated about the last-minute move.

And we hear from an Indian-Ukrainian couple in Delhi about

their personal experience of the war and their attempts to employ Ukrainians in remote work.

(Photo: Refugees from different places of Ukraine live in a gym hall in the Western Ukrainian city of Lviv, 23 March 2022. Credit: EPA/MYKOLA TYS)

**WED 19:00 BBC News (w172xzk31pk65vv)**

The latest five minute news bulletin from BBC World Service.

**WED 19:06 The Newsroom (w172xyy0pcp8sv3)**

The world's Newsroom brings you global events as they happen

**WED 19:30 BBC News Summary (w172xzkxf4wk47)**

The latest two minute news summary from BBC World Service.

**WED 19:32 Sport Today (w172y0nw38j91p6)**

2022/03/23 GMT

BBC sports correspondents tell the story behind today's top sporting news, with interviews and reports from across the world.

**WED 20:00 BBC News (w172xzk31pk69lz)**

The latest five minute news bulletin from BBC World Service.

**WED 20:06 The Compass (w3ct3jzj)**

[Repeat of broadcast at 02:32 today]

**WED 20:30 BBC News Summary (w172xzkxf4wnwc)**

The latest two minute news summary from BBC World Service.

**WED 20:32 Health Check (w3ct1nws)**

What should Hong Kong do about Covid-19?

The number of new Covid-19 infection cases worldwide has jumped by 10%. Tabitha Mwangi, Programme Manager at Cambridge Africa at Cambridge University, gives us a rundown of how that overall increase is playing out in different parts of the world.

Hong Kong had been one of the most successful places at controlling Covid-19 but recently faced the highest death rates in the world. What went wrong? We hear from Vivian Wong, a public health advisor and honorary professor of Chinese Medicine at the University of Hong Kong. And how are pandemic restrictions impacting people's mental wellbeing? Christian Chan, an Associate Professor of Psychology at the University of Hong Kong and a warden at a student residence, shares his thoughts.

Also, do you think you're more likely to catch Covid-19 from a friend or a stranger? Ashley Whillans, a social psychologist at Harvard Business School in the US, tells us what happened when she asked people this very question.

Presenter: Claudia Hammond

Producer: Samara Linton

(Picture: A worker cleans an area of Hong Kong International Airport on 21 March 2022 amid the Covid-19 pandemic. Photo credit: Dale de la Rey/AFP/Getty Images.)

**WED 21:00 BBC News (w172xzk31pk6fc3)**

The latest five minute news bulletin from BBC World Service.

**WED 21:06 Newshour (w172xv5nm3spdng)**

NATO announces new battle groups for Europe

NATO's Secretary General says the organisation will approve major increases in the forces deployed on its eastern flank, at an emergency summit on Ukraine. Jens Stoltenberg said four new battlegroups would be sent to eastern Europe to counter the threat from Russia. We hear from the US ambassador to NATO who gives us her assessment of Russia's progress.

Also in the programme: The UN expresses profound disappointment at the Taliban's decision to again close secondary schools to girls in Afghanistan. And, we hear from the Somali capital Mogadishu on the latest gunfight at the entrance to the international airport complex that left at least eight people dead.

(Picture: U.S. Marine secures position during a military exercise called "Cold Response 2022", gathering around 30,000 troops from NATO member countries plus Finland and Sweden, amid Russia's invasion of Ukraine, in Evensen, Norway. Credit: REUTERS/Yves Herman)

**WED 22:00 BBC News (w172xzk31pk6k37)**

The latest five minute news bulletin from BBC World Service.

**WED 22:06 The Newsroom (w172xyy0pcp952h)**

The world's Newsroom brings you global events as they happen

**WED 22:30 BBC News Summary (w172xzkxf4wxcn)**

The latest two minute news summary from BBC World Service.

**WED 22:32 World Business Report (w172yct462jrzc3)**

Russia says payments for gas must be made in roubles

Russian president, Vladimir Putin, says Moscow will begin insisting that payments for Russian gas - from unfriendly countries, as he put it - are made in roubles. He's given the Russian central bank a week to find a way of switching these payments away from other currencies. Jane Foley is head of FX strategy at Rabobank and explains what the impact will be. In the UK, prices are rising faster than wages and the Bank of England says inflation could hit double digits this year. Finance minister Rishi Sunak announced measures today which he says will help ease the pain for consumers. We speak to Roger Bootle, the chairman of the macro-economic research company Capital Economics, to get his assessment of Sunak's response to the cost of living crisis.

And finally a special report from the BBC's Ed Butler investigates the world of ethical investment, to see just how ethical they really are.

(Photo: Russian president Vladimir Putin. Credit: Getty Images)

**WED 23:00 BBC News (w172xzk31pk6nvc)**

The latest five minute news bulletin from BBC World Service.

**WED 23:06 HARDtalk (w3ct1ncr)**

[Repeat of broadcast at 08:06 today]

**WED 23:30 BBC News Summary (w172xzkxf4x13r)**

The latest two minute news summary from BBC World Service.

**WED 23:32 The Documentary (w3ct3jyp)**

[Repeat of broadcast at 04:32 today]

**THURSDAY 24 MARCH 2022**

**THU 00:00 BBC News (w172xzk31pk6slh)**

The latest five minute news bulletin from BBC World Service.

**THU 00:06 The Newsroom (w172xyy0pcp9dkr)**

The world's Newsroom brings you global events as they happen

**THU 00:30 BBC News Summary (w172xzkxf4x4vw)**

The latest two minute news summary from BBC World Service.

**THU 00:32 The Cultural Frontline (w3ct1pv3)**

[Repeat of broadcast at 22:32 on Saturday]

**THU 01:00 BBC News (w172xzk31pk6xbn)**

The latest five minute news bulletin from BBC World Service.

**THU 01:06 Business Matters (w172xvqwxfg48nb)**

Russia says payments for gas must be made in roubles

Russian president, Vladimir Putin, says Moscow will begin insisting that payments for Russian gas - from unfriendly countries, as he put it - are made in roubles. He's given the Russian central bank a week to find a way of switching these payments away from other currencies. Jane Foley is head of FX strategy at Rabobank and explains what the impact will be. In the UK, prices are rising faster than wages and the Bank of England says inflation could hit double digits this year. Finance minister Rishi Sunak announced measures today which he says will help ease the pain for consumers. We speak to Roger Bootle, the chairman of the macro-economic research company Capital Economics, to get his assessment of Sunak's response to the cost of living crisis.

A special report from the BBC's Ed Butler investigates the world of ethical investment, to see just how ethical they really are.

And we hear from Guy Gadney, CEO of AI company Charisma Entertainment, on his way back from the Game Developers Conference in San Francisco, about the likely trends in gaming for 2022.

Sasha Twining is joined throughout the programme by

Bloomberg Opinion columnist Shuli Ren in Hong Kong, and by Takara Small, a tech journalist at CBC from Toronto in Canada.

(Picture: Russian president Vladimir Putin. Credit: Getty Images)

**THU 02:00 BBC News (w172xzk31pk712r)**

The latest five minute news bulletin from BBC World Service.

**THU 02:06 The Newsroom (w172xyy0pcp9n20)**

The world's Newsroom brings you global events as they happen

**THU 02:30 BBC News Summary (w172xzkxf4x4dc4)**

The latest two minute news summary from BBC World Service.

**THU 02:32 Assignment (w3ct1gyv)**

Heartbeats, abortion and Texas

In September, 2021 the state of Texas introduced the most restrictive abortion law in the United States. SB8, also known as the Heartbeat Act, prohibits the termination of pregnancy after around 6 weeks' gestation – the point at which some claim a heartbeat can be detected.

SB8 has given traction to those who advocate for alternatives for women faced with an unplanned pregnancy. Just outside Dallas, a Christian couple are working to bring to fruition a 'maternity ranch' to provide homes for pregnant, single mothers.

Of course many women don't even know they are pregnant by the 6 week mark. So the law has promoted vigilance. And countless women hold their breath as they undergo an ultrasound in the state's few remaining abortion clinics. If they are in time, they can terminate their pregnancy in Texas. If not, they will have to travel to another state.

But for some Texans, the law does not go far enough – they want a total ban on abortion. And in towns across the state, pro-life activists have pushed local government to declare their communities, 'Sanctuaries for the Unborn Child'. Assignment reports from Abilene, where pro-life activists are lobbying to put in place an ordinance that would prohibit abortion within the city limits. So far, 39 Texan towns have outlawed abortion completely.

Presenter: Linda Pressly

Producer: Tim Mansel

(Image: Aubrey Schlackman is planning on opening a 'maternity ranch' for single, pregnant mothers in Texas. Credit: Tim Mansel/BBC)

**THU 03:00 BBC News (w172xzk31pk74tw)**

The latest five minute news bulletin from BBC World Service.

**THU 03:06 Outlook (w3ct1k02)**

[Repeat of broadcast at 12:06 on Wednesday]

**THU 03:50 Witness History (w3ct1x93)**

[Repeat of broadcast at 08:50 on Wednesday]

**THU 04:00 BBC News (w172xzk31pk7810)**

The latest five minute news bulletin from BBC World Service.

**THU 04:06 The Newsroom (w172xyy0pcp9wk8)**

The world's Newsroom brings you global events as they happen

**THU 04:30 BBC News Summary (w172xzkxf4xmdv)**

The latest two minute news summary from BBC World Service.

**THU 04:32 The Food Chain (w3ct1rgt)**

So, you think you can quit caffeine?

Caffeine is a key ingredient in some of our favourite foods and drinks, but it's also a mind-altering drug that can be very tricky to quit.

Tamasin Ford meets three people who've tried to cut caffeine out of their lives by eliminating some of its main sources from their diets - coffee, tea and chocolate.

We hear about some uncomfortable withdrawal symptoms, social awkwardness, and the struggle to adapt to life without a caffeine high. How long did they stay caffeine-free?

If you would like to get in touch with the show please email thefoodchain@bbc.co.uk.

Producers: Simon Tulett and Sarah Stolarz

Contributors:

Petteri Rantamäki, business software professional, Helsinki, Finland;  
Abigail James, aesthetician and author, London, UK;  
John Horgan, science journalist, New York, USA.

(Picture: A young woman holding a cup of coffee. Credit: Getty Images/BBC)

**THU 05:00 BBC News (w172xzk31pk7db4)**  
The latest five minute news bulletin from BBC World Service.

**THU 05:06 Newsday (w172xv368xzngbw)**  
Ukraine: President Biden meets his Nato partners in Brussels later today

Nato leaders meet in Brussels - we'll hear from a former US ambassador to the western defence alliance who says member countries are determined to show a united front against Russia's invasion of Ukraine.

We'll get an overview of the latest military developments in Ukraine from the capital Kyiv - and hear intercepted communications released by the Ukrainians which seem to reveal how disillusioned many Russian troops are.

Also: we hear how a day of hope turned into intense disappointment as our correspondent in Afghanistan reports on the change of heart by the Taliban on allowing girls into secondary schools.

**THU 06:00 BBC News (w172xzk31pk7j28)**  
The latest five minute news bulletin from BBC World Service.

**THU 06:06 Newsday (w172xv368xzn130)**  
Ukraine calls for worldwide support against month-long Russian invasion

We're marking a month since the start of Russia's invasion of Ukraine as President Volodymyr Zelensky urges people around the world to show their support for his embattled country.

An emergency meeting of Nato leaders including Joe Biden are due to meet in Brussels shortly - we'll be speaking to the former US ambassador to the western military alliance.

And we'll go to Lviv in the west of Ukraine to meet one of the country's greatest pianists inside the city's shuttered opera house.

**THU 07:00 BBC News (w172xzk31pk7mtd)**  
The latest five minute news bulletin from BBC World Service.

**THU 07:06 Newsday (w172xv368xznpv4)**  
Nato leaders gather to discuss the crisis in Ukraine

As part of our continuing coverage of the war in Ukraine, we report on Nato leaders meeting to approve an increase in its forces deployed to eastern Europe.

Plus we hear phone calls from Russian soldiers complaining about logistics, leadership friendly fire, and human losses according to Ukraine.

And we'll look at why Russia's military advance is going so slowly and what this might mean for President Vladimir Putin's leadership.

**THU 08:00 BBC News (w172xzk31pk7rkj)**  
The latest five minute news bulletin from BBC World Service.

**THU 08:06 The Inquiry (w3ct1z3h)**  
Why is Russia's invasion plan failing?

Russia's military dwarfs Ukraine's by comparison, so it was expected that Ukraine would fall under Russian occupation quickly. One month later and Russia have made very little progress and Kyiv, the capital, remains under Ukrainian control. Given the overwhelming odds stacked against the Ukrainian military, why has the Russian military failed to conquer Ukraine?

Charmaine Cozier takes a closer look at where the Russian military have made their mistakes.

Producer: Christopher Blake

(Russian tank destroyed by Ukrainian forces on the side of a road in Lugansk. Credit: Anatolii Stepanov /Getty Images)

**THU 08:30 BBC News Summary (w172xzkxhf4y3tx)**  
The latest two minute news summary from BBC World Service.

**THU 08:32 Business Daily (w3ct1jbr)**  
Pacific Islanders working for their futures

Climate change and disasters continue to threaten peoples' livelihoods and wellbeing in the Pacific Islands.

Jon Naupa, a Kava farmer in Vanuatu, tells the BBC's Frey Lindsay how difficult it's getting to break even at the moment. In response to the challenges, young Pacific Islanders are taking advantage of regional labour mobility schemes to make money and help their families. Australia's Pacific labour mobility schemes have seen tens of thousands of Pacific Islanders filling job shortages in Australia, particularly in the agriculture sector.

Telusa Tu'i'onetoa, a PhD candidate at Australian National University, explains how the schemes are supposed to work, and the impact the separation has on families. We'll also hear from Fiona, a young mother of two working in South Australia. While the schemes offer the chance to earn money at a time when opportunities are limited at home, they are also areas with high risk of exploitation and abuse of vulnerable workers. Tukini Tavui, the CEO of the Pacific Islands Council of South Australia, tells Frey how they work to help protect workers, and what he'd like to see done to help workers break the cycle of wage dependency.

(Picture: Samoans picking fruit in Australia; Credit: Getty Images)

**THU 08:50 Witness History (w3ct1x4l)**  
Ukraine's Babi Yar massacre

During World War Two, Ukraine was occupied by Nazi Germany and on 29th September 1941, the organised massacre of Ukrainian Jews began. In the capital Kyiv, most of the victims were taken to a ravine on the outskirts of the city called Babi Yar, and shot. In 2011, David Stern spoke to Raissa Maistrenko, who escaped the shooting as a three-year-old girl, and to Rabbi Alexander Dukhovny, whose mother survived the Holocaust outside the city.

PHOTO: The memorial at the Babi Yar site near Kyiv (Getty Images)

**THU 09:00 BBC News (w172xzk31pk7w9n)**  
The latest five minute news bulletin from BBC World Service.

**THU 09:06 The Newsroom (w172xyy0pcpbh8x)**  
The world's Newsroom brings you global events as they happen

**THU 09:30 BBC News Summary (w172xzkxhf4y71l)**  
The latest two minute news summary from BBC World Service.

**THU 09:32 Health Check (w3ct1nws)**  
[Repeat of broadcast at 20:32 on Wednesday]

**THU 10:00 BBC News (w172xzk31pk801s)**  
The latest five minute news bulletin from BBC World Service.

**THU 10:06 The Forum (w3ct1rmp)**  
[Repeat of broadcast at 14:06 on Sunday]

**THU 10:50 Sporting Witness (w3ct1l9q)**  
The women cross-country skiers who fought to race

In March 1981, women were allowed to compete officially in the Vasaloppet race in Sweden - one of the world's most popular cross-country skiing events. Vasaloppet officials had previously suggested that women would not be strong enough to complete the course and extra toilet facilities might need to be built for them. Female skiers responded with a concerted campaign to get into the historic race, which included trying - unsuccessfully - to take part disguised as men. Maddy Savage talks to Swedish Olympian Meeri Bodelid, who posted the fastest women's time in the historic 1981 Vasaloppet race.

(Photo: Meeri Bodelid competing in 1981, courtesy of the Vasaloppet Race)

**THU 11:00 BBC News (w172xzk31pk83sx)**  
The latest five minute news bulletin from BBC World Service.

**THU 11:06 The Newsroom (w172xyy0pcpbh5s)**  
The world's Newsroom brings you global events as they happen

**THU 11:30 BBC News Summary (w172xzkxhf4yh29)**  
The latest two minute news summary from BBC World Service.

**THU 11:32 The Food Chain (w3ct1rgt)**  
[Repeat of broadcast at 04:32 today]

**THU 12:00 BBC News (w172xzk31pk87k1)**  
The latest five minute news bulletin from BBC World Service.

**THU 12:06 Outlook (w3ct1k4l)**  
Punk against apartheid

National Wake were South Africa's first multiracial punk band - and their apartheid era gigs would often end in chaos. Two members were black, two white, and their very existence was a provocation to those trying to uphold the racist status quo. They dreamed of a better South Africa, despite constant harassment by security forces. The band's surviving members, Steve Moni and Ivan Kadey, spoke to Outlook's Emily Webb.

Presenter: Emily Webb  
Producer: Harry Graham

Get in touch: outlook@bbc.com

(Photo: National Wake Credit: Courtesy of Ivan Kadey)

**THU 12:50 Witness History (w3ct1x4l)**  
[Repeat of broadcast at 08:50 today]

**THU 13:00 BBC News (w172xzk31pk8e95)**  
The latest five minute news bulletin from BBC World Service.

**THU 13:06 The Newsroom (w172xyy0pcpbz8f)**  
The world's Newsroom brings you global events as they happen

**THU 13:30 BBC News Summary (w172xzkxhf4yqkk)**  
The latest two minute news summary from BBC World Service.

**THU 13:32 Health Check (w3ct1nws)**  
[Repeat of broadcast at 20:32 on Wednesday]

**THU 14:00 BBC News (w172xzk31pk8h19)**  
The latest five minute news bulletin from BBC World Service.

**THU 14:06 Newshour (w172xv5nm3srgbx)**  
Nato emergency meeting on war in Ukraine

The alliance is also set to give its military aid to Ukraine, including equipment for it to defend itself against attacks with non-conventional weapons, while Ukrainian president Zelensky pleads for people to show their support worldwide. And we speak to Anna Vorosheva, a businesswoman who managed to flee Mariupol last wee. She's soon going back to the besieged city.

Also in the programme: Egypt asks the International Monetary Fund for help to deal with the impact of the war in Ukraine; and we examine if, beyond western countries, Russian information war making a difference elsewhere.

(Photo: NATO Secretary General Jens Stoltenberg holds a news conference during a NATO summit to discuss Russia's invasion of Ukraine. Credit: Reuters).

**THU 15:00 BBC News (w172xzk31pk8lsf)**  
The latest five minute news bulletin from BBC World Service.

**THU 15:06 The Inquiry (w3ct1z3h)**  
[Repeat of broadcast at 08:06 today]

**THU 15:30 BBC News Summary (w172xzkxhf4yz1t)**  
The latest two minute news summary from BBC World Service.

**THU 15:32 World Business Report (w172y49qhjdvs6)**  
Nato discusses defence spending

At a Nato summit in Brussels, its members have discussed boosting defence spending. Sash Tusa is an aerospace and defence specialist at Agency Partners, and tells us what the implications of such an increase would be. Also in the programme, the BBC's Jonathan Head reports from Thailand on the impact of Russia's invasion of Ukraine on tourists from the two countries who find themselves stranded there, either because sanctions mean there are no flights to return to Russia,

or the war in Ukraine means a return to the country is currently out of the question. The insurance company Lloyds of London has announced its best results for six years, and the firm's chief executive, John Neal, explains what is behind its recent success. New York's famous yellow taxi cabs are being added to the ride-hailing platform Uber. Preetika Rana of the Wall Street Journal in New York discusses the move. Plus, our regular workplace commentator Sandip Roy explores the relationship between religion and the workplace.

Today's edition is presented by Fergus Nicoll, and produced by Matthew Davies, Philippa Goodrich and Ivana Davidovic.

(Photo: The leaders of Nato's member countries. Credit: Nato)

**THU 16:00 BBC News (w172xzk31pk8qjk)**

The latest five minute news bulletin from BBC World Service.

**THU 16:06 BBC OS (w172xxy240nqqh0)**

Ukraine: Nato leaders discuss next steps

One month after Russia launched its invasion of Ukraine, Nato leaders have assembled to consider strengthening their presence in eastern Europe and increasing military aid to Ukraine. Addressing the alliance by video link, Ukraine's President Volodymyr Zelensky called for unrestricted military aid. We hear the latest from our correspondents, in a special programme co-presented by the BBC's James Waterhouse from Kyiv.

With reports in recent days of the Ukrainian army successfully forcing back Russian troops in some areas, our security expert tells us developments in fighting across the country. We analyse how the Ukrainian army have continued to defy international expectations one month into the conflict.

We continue our weekly theme, looking at how people in different parts of the world are viewing the war in Ukraine. Today, it is the turn of Middle East countries, with a particular focus on whether the media focus on Russia's invasion, has distracted from other ongoing global conflicts.

And following the news yesterday, that the Taliban have backtracked on reopening high schools for girls in Afghanistan, we also speak to a girl who fled the country last year and is now continuing her education in North America. We first spoke to her last year when she was trapped with her family in Afghanistan, an interview which changed her life...

(Photo: Nato leaders pose before a summit in Brussels. Credit: Wolfgang Rattay/Reuters)

**THU 17:00 BBC News (w172xzk31pk8v8p)**

The latest five minute news bulletin from BBC World Service.

**THU 17:06 BBC OS (w172xxy240nqv74)**

Ukraine: Nato leaders discuss next steps

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(Photo: Nato leaders pose before a summit in Brussels. Credit: Wolfgang Rattay/Reuters)

**THU 18:00 BBC News (w172xzk31pk8z0t)**

The latest five minute news bulletin from BBC World Service.

**THU 18:06 BBC OS (w172xxy240nqyz8)**

Ukraine: Nato leaders discuss next steps

One month after Russia launched its invasion of Ukraine, Nato leaders have assembled to consider strengthening their presence in eastern Europe and increasing military aid to Ukraine. Addressing the alliance by video link, Ukraine's President Volodymyr Zelensky called for unrestricted military aid. We hear the latest from our correspondents, in a special programme co-presented by the BBC's James Waterhouse from Kyiv.

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(Photo: Nato leaders pose before a summit in Brussels. Credit: Wolfgang Rattay/Reuters)

**THU 19:00 BBC News (w172xzk31pk92ry)**

The latest five minute news bulletin from BBC World Service.

**THU 19:06 The Newsroom (w172xxy0pccpr6)**

The world's Newsroom brings you global events as they happen

**THU 19:30 BBC News Summary (w172xzkxhf4zg1b)**

The latest two minute news summary from BBC World Service.

**THU 19:32 Sport Today (w172y0nw38jcy19)**

2022/03/24 GMT

BBC sports correspondents tell the story behind today's top sporting news, with interviews and reports from across the world.

**THU 20:00 BBC News (w172xzk31pk96j2)**

The latest five minute news bulletin from BBC World Service.

**THU 20:06 Assignment (w3ct1gyv)**

[Repeat of broadcast at 02:32 today]

**THU 20:30 BBC News Summary (w172xzkxhf4zksq)**

The latest two minute news summary from BBC World Service.

**THU 20:32 Science In Action (w3ct1i56)**

Warming world

Unseasonably high temperatures have been recorded in both polar regions. Glaciologist Ruth Mottram discusses why they might be occurring now and the potential impact on her own work measuring climate change in Greenland.

Erica Ollmann Saphire from the La Jolla Institute for Immunology tells us about her work developing new treatments for Ebola, she is looking to develop drugs which work not just on Ebola but also a range of related Viruses.

And Eugene Koonin from the United States National Institutes of Health shows us how his computer modelling of the mutations of Sars Cov -2 suggest some good news - that the virus might not be able to mutate into further dangerous forms - at least not with its current set of genetic tools.

Eugene is originally from Russia and both he and President Obama's science advisor John Holdren are keen to keep up ties with scientists in Russia despite the international sanctions now being applied over the war in Ukraine. Both point out that many Russian scientists have opposed the war, and that curtailing scientific collaboration could have a detrimental effect not just on science in Russia but elsewhere as well.

Image: Penguins on an ice float, Paradise Harbor, also known as Paradise Bay, behind Lemaire and Bryde Islands in Antarctica. Credit: Leamua via Getty Images)

Presenter: Roland Pease  
Producer: Alex Mansfield

**THU 21:00 BBC News (w172xzk31pk9b86)**

The latest five minute news bulletin from BBC World Service.

**THU 21:06 Newshour (w172xv5mm3ss9kt)**

Biden: Nato has never been more united

Nato leaders approve major increases of the alliance's forces in eastern Europe as Russia attacks Ukraine.

We hear from a woman returning to the bombed city of Mariupol who says her neighbour died and her corpse is "lying there". Also in this programme: the Ethiopian government declares an indefinite humanitarian truce - so will aid now flow freely into the northern region of Tigray?

(Photo: US President Joe Biden attends a European Union leaders summit in Brussels. Credit: Reuters Johanna Geron)

**THU 22:00 BBC News (w172xzk31pk9g0b)**

The latest five minute news bulletin from BBC World Service.

**THU 22:06 The Newsroom (w172xxy0pcpd1zl)**

The world's Newsroom brings you global events as they happen

**THU 22:30 BBC News Summary (w172xzkxhf4zt8q)**

The latest two minute news summary from BBC World Service.

**THU 22:32 World Business Report (w172ycs9rby5ktx)**

Nato discusses defence spending

At a Nato summit in Brussels, its members have discussed boosting defence spending. We get the very latest from the summit from BBC Brussels correspondent Jessica Parker. Also in the programme, the BBC's Jonathan Head reports from Thailand on the impact of Russia's invasion of Ukraine on tourists from the two countries who find themselves stranded there, either because sanctions mean there are no flights to return to Russia, or the war in Ukraine means a return to the country is currently out of the question.

And New York's famous yellow taxi cabs are being added to the ride-hailing platform Uber. Chris Mills Rodrigo is a journalist at The Hill and discusses the move. Plus, our regular workplace commentator Sandip Roy explores the relationship between religion and the workplace.

(Photo: The leaders of Nato's member countries. Credit: Nato)

**THU 23:00 BBC News (w172xzk31pk9krq)**

The latest five minute news bulletin from BBC World Service.

**THU 23:06 The Inquiry (w3ct1z3h)**

[Repeat of broadcast at 08:06 today]

**THU 23:30 BBC News Summary (w172xzkxhf4zy0v)**

The latest two minute news summary from BBC World Service.

**THU 23:32 The Food Chain (w3ct1rgt)**

[Repeat of broadcast at 04:32 today]

**FRIDAY 25 MARCH 2022**

**FRI 00:00 BBC News (w172xzk31pk9phl)**

The latest five minute news bulletin from BBC World Service.

**FRI 00:06 The Newsroom (w172xxy0pcpd9gv)**

The world's Newsroom brings you global events as they happen

**FRI 00:30 BBC News Summary (w172xzkxhf501rz)**

The latest two minute news summary from BBC World Service.

**FRI 00:32 The Conversation (w3ct1pb0)**

[Repeat of broadcast at 04:32 on Monday]

**FRI 01:00 BBC News (w172xzk31pk9t7q)**

The latest five minute news bulletin from BBC World Service.

**FRI 01:06 Business Matters (w172xvqwxfg75kf)**

Nato to send troops to boost Eastern European defences

At a Nato summit in Brussels, its members have discussed boosting defence spending. We get the very latest from the summit from BBC Brussels correspondent Jessica Parker. Also in the programme, the BBC's Jonathan Head reports from

Thailand on the impact of Russia's invasion of Ukraine on tourists from the two countries who find themselves stranded there, either because sanctions mean there are no flights to return to Russia, or the war in Ukraine means a return to the country is currently out of the question. New York's famous yellow taxi cabs are being added to the ride-hailing platform Uber. Chris Mills Rodrigo is a journalist at The Hill and discusses the move. And the streaming service Spotify has released figures showing how much it paid artists in the past year, in a bid to become more transparent. But it's still unclear what exactly musicians are paid. Eddie Fu of the pop culture website Consequence gives his reaction.

Sasha Twining is joined throughout the programme by Dante Despartie, chief strategy officer and head of global policy at Circle, from Washington, and Sushma Ramachandran, an independent business journalist and columnist at the Tribune Newspaper, who's in Delhi.

(Picture: Nato leaders. Credit: Getty Images)

**FRI 02:00 BBC News (w172xzk31pk9xzv)**  
The latest five minute news bulletin from BBC World Service.

**FRI 02:06 The Newsroom (w172xyy0pcpdjz3)**  
The world's Newsroom brings you global events as they happen

**FRI 02:30 BBC News Summary (w172zxxhf50987)**  
The latest two minute news summary from BBC World Service.

**FRI 02:32 World Football (w3ct1v0k)**  
Socceroos, Craig Foster and Vanuatu

Footballer-turned-human rights activist Craig Foster discusses Australia's national team and Qatar 2022. We also hear from Vanuatu player Jared Clark after a Covid outbreak ended their World Cup qualification campaign.

Picture on website: Fans cheer during the FIFA World Cup Qatar 2022 AFC Asian Qualifying match between the Australia and Japan (Cameron Spencer/Getty Images).

**FRI 03:00 BBC News (w172xzk31pkb1qz)**  
The latest five minute news bulletin from BBC World Service.

**FRI 03:06 Outlook (w3ct1k4)**  
[Repeat of broadcast at 12:06 on Thursday]

**FRI 03:50 Witness History (w3ct1x4)**  
[Repeat of broadcast at 08:50 on Thursday]

**FRI 04:00 BBC News (w172xzk31pkb5h3)**  
The latest five minute news bulletin from BBC World Service.

**FRI 04:06 The Newsroom (w172xyy0pcpdsge)**  
The world's Newsroom brings you global events as they happen

**FRI 04:30 BBC News Summary (w172zxxhf50jrh)**  
The latest two minute news summary from BBC World Service.

**FRI 04:32 Heart and Soul (w3ct40sd)**  
Saving Albania's trafficked victims

For 16 years Sister Imelda Poole has been fighting in a war. This war has brought her to countries all over the world and just when she thinks she is making progress, the war game changes. Based in Albania, during the pandemic Sr Imelda noticed a new trend in human trafficking as people in poorer regions were struggling to pay their rent due to losing their jobs. It came in the form of a compromise from their landlord; offer your daughter for sex or to be entered into the sex industry to clear the debt. Many of these girls were very young. Some were left with no choice, others, thankfully were able to avail of emergency Covid funding.

Stories like these are what Sr Imelda and her team at RENATE (Religious in Europe Networking Against Trafficking and Exploitation) are hearing every day and trying to do what they can to rescue women from trafficking. They are at war with the complex and often vast trafficking gangs who move women out of countries like Albania and into Italy and other parts of Europe. Now, they operate online as much as offline, using the dark web as a marketplace for people.

We meet Sr Imelda in Albania to hear how a small nun from England ended up doing this work. We talk to her about how her faith gives her the fire to keep fighting for these women,

despite figures showing that the problem of trafficking is only getting worse. At a recent visit to the Vatican, Sr Imelda met with Pope Francis in a bid to highlight the plight of these women and show how the Church can help them. We meet some of those girls who have been rescued and given a new life to hear their stories. And we visit the poorer regions of Albania and hotspots where the gangs operate.

(Image: Sister Imelda Poole. Credit: BBC)

**FRI 05:00 BBC News (w172xzk31pkb977)**  
The latest five minute news bulletin from BBC World Service.

**FRI 05:06 Newsday (w172xv368xzc7z)**  
Ukrainians defend Kharkiv

During our in depth coverage of the war in Ukraine, we'll get an insight into the daily life of Ukrainian reservists fighting for the defence of the country's second city, Kharkiv. One of our correspondents in Ukraine reports from the frontline.

We'll hear from a resident in Kyiv who talks about daily life in the city despite Ukraine being in a volatile state.

We'll also explore the impact the war is having on children throughout the country.

**FRI 06:00 BBC News (w172xzk31pkbdzc)**  
The latest five minute news bulletin from BBC World Service.

**FRI 06:06 Newsday (w172xv368xzh03)**  
Russia's military advance in Ukraine stalls

Russia's military advance in Ukraine has largely stalled, according to analysts who point to logistical issues, such as access to fuel and armament resupplies and low morale among its troops. This also includes the fierce resistance Ukraine's much-smaller military force has put up defending the nation.

Also in the programme, Ukraine claims to have destroyed the invading army's forward command post in the south of the country, where Russian forces are gathered en masse, pushing for a land corridor along the coast. Kyiv is also claiming to have destroyed a Russian landing ship in the occupied port of Berdyansk, near the besieged city of Mariupol.

Ukraine has told its global allies that the country is running critically low on arms supplies in order to defend itself. We'll hear more from an analyst accessing the situation.

**FRI 07:00 BBC News (w172xzk31pkbjqh)**  
The latest five minute news bulletin from BBC World Service.

**FRI 07:06 Newsday (w172xv368xzh7f)**  
US President says Nato is more united than ever

The United States President Joe Biden says Nato has never been more united. We'll get a view on this from the Czech ambassador to NATO.

Also in the programme, we go to Lviv Central station in Ukraine, to hear from people who keep the trains running, arrange for provisions to be taken to the front lines, and for people to be moved to safety.

And new sanctions against Russia have been announced, but President Zelensky says they have come "a little late." We have the latest on this.

**FRI 08:00 BBC News (w172xzk31pkbngm)**  
The latest five minute news bulletin from BBC World Service.

**FRI 08:06 HARDtalk (w3ct1n2q)**  
Ilya Ponomarev: A former Russian MP on fighting Putin

Gabriel Gatehouse speaks to Ilya Ponomarev, a former member of the Russian parliament who is fighting in Ukraine – against Russia. Ponomarev has long said he wants to bring down Vladimir Putin, but was once on the Russian government payroll. He has had his feet in many camps: among the Russian elites, inside the popular opposition, and now with Ukraine's defence forces. What will the repercussions be of this war be, in Ukraine and in Russia?

**FRI 08:30 BBC News Summary (w172zxxhf510r0)**  
The latest two minute news summary from BBC World Service.

**FRI 08:32 Business Daily (w3ct1j1q)**  
Rise of the high-tech border industry

AI, data analytics and automated surveillance are ever more shaping refugees' futures around the world. From the external borders of the EU to the US-Mexico border, "smart border" solutions, developed by private companies for states, are being used to surveil and control people on the move. Lawyer and anthropologist Petra Molnar tells the BBC's Frey Lindsay how she's seen these technologies creep into borders and camps around the world, and Dr Emre Eren Korkmaz of Oxford University describes how this global "border industrial complex" has become hugely profitable for private companies. We'll also hear from a new high-tech refugee camp on the Greek island of Samos, where refugees feel oppressed and dehumanised by the litany of technology that surrounds them. Sae Bosco, of Samos Volunteers, explains that these technologies don't do much to protect people within the camp, despite the EU's claims. And Sarah Chander of European Digital Rights tells Frey that the EU appear aware of the harms algorithmic surveillance and control can bring to people, and so is moving to protect EU citizens, but not migrants.

(Picture: the Samos CCAC refugee camp. Picture credit: Getty Images)

**FRI 08:50 Witness History (w3ct1x02)**  
Soviet holidays in Crimea

Artek, on the shores of the Black Sea in Crimea, was the Soviet Union's most popular holiday camp. Thousands of children visited every year. Maria Kim Espeland went there in the 1980s. She spoke to Lucy Burns in 2014.

Photo: Group of children attending Artek. (Credit: Irina Vlasova)

**FRI 09:00 BBC News (w172xzk31pkbs6r)**  
The latest five minute news bulletin from BBC World Service.

**FRI 09:06 The Newsroom (w172xyy0pcpfd60)**  
The world's Newsroom brings you global events as they happen

**FRI 09:30 BBC News Summary (w172zxxhf514h4)**  
The latest two minute news summary from BBC World Service.

**FRI 09:32 Science In Action (w3ct1i56)**  
[Repeat of broadcast at 20:32 on Thursday]

**FRI 10:00 BBC News (w172xzk31pkbwyw)**  
The latest five minute news bulletin from BBC World Service.

**FRI 10:06 The Real Story (w3ct1hty)**  
Who are Russia's friends?

In the wake of Russia's invasion of Ukraine 141 of the UN's 193 member states voted to condemn the action. But the Kremlin isn't without its allies. Four nations voted with Russia against the resolution (Belarus, North Korea, Syria and Eritrea) and another 35 abstained. China is the most prominent of these, but India also sat out the vote. The world's largest democracy has not only failed to criticise the invasion but has also shielded away from introducing sanctions. That's prompted President Biden to describe Delhi's response to the war raging in Europe as "somewhat shaky". But India isn't alone. Israel too is hoping to stay neutral; it says so that it can facilitate talks between Moscow and Kyiv – with Foreign Minister Yair Lapid insisting "the way to stop the war is to negotiate". So how much are current relationships based on ties dating back to the Cold War? How many countries still need Russia to maintain their own security and energy supplies? And can these partnerships survive in the face of harsh Western sanctions?

Ritula Shah is joined by a panel of experts. Producers: Junaid Ahmed and Paul Schuster.

**FRI 11:00 BBC News (w172xzk31pkc0q0)**  
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**FRI 11:06 The Newsroom (w172xyy0pcpmp8)**  
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The latest two minute news summary from BBC World Service.

**FRI 11:32 World Football (w3ct1v0k)**  
[Repeat of broadcast at 02:32 today]

**FRI 12:00 BBC News (w172xzk31pkc4g4)**  
The latest five minute news bulletin from BBC World Service.

**FRI 12:06 The Fifth Floor (w3ct20gg)**

Ukraine: Reporting war at home

How does it feel to report on the world's biggest story when it also happens to be about your home? We hear from BBC Ukrainian's Irena Taranyuk and BBC Monitoring's Vitaliy Shevchenko about the challenges of reporting and living the story, sifting truth from sophisticated misinformation, and the impact of protests and support from around the world.

**Sexism in Somalia**

BBC Africa Eye's recent film, 'Somalia, sexism and me', shows the everyday sexism and harassment Maryama Omar, a female camerawoman in Mogadishu, faces. It's something that BBC Somali's Bella Sheegow can relate to from her own experiences of reporting in Somalia.

**Let's play AIWird!**

Wordle became an international hit, with millions trying to guess the daily 5-letter word in only 6 attempts. Now there are equivalents in other languages, including Arabic. BBC Arabic's Yanita Georgieva tells the story of how AIWird came about.

(Photo: Ukrainian flags alongside a British Union Jack outside a London pub, March 2022. Credit: Richard Baker / In Pictures via Getty Images)

**FRI 12:50 Witness History (w3ct1x02)**

[Repeat of broadcast at 08:50 today]

**FRI 13:00 BBC News (w172xzk31pkc868)**

The latest five minute news bulletin from BBC World Service.

**FRI 13:06 The Newsroom (w172xy0pcpfw5j)**

The world's Newsroom brings you global events as they happen

**FRI 13:30 BBC News Summary (w172xzkxhf51mgn)**

The latest two minute news summary from BBC World Service.

**FRI 13:32 Science In Action (w3ct1l56)**

[Repeat of broadcast at 20:32 on Thursday]

**FRI 14:00 BBC News (w172xzk31pkccyd)**

The latest five minute news bulletin from BBC World Service.

**FRI 14:06 Newshour (w172xv5nm3svce80)**

Mariupol: 300 dead from theatre attack

In what may be the deadliest attack of the war, a local official has confirmed that more than 300 people have died from the Mariupol theatre attack last week.

Also on the programme, the UN says that Ukrainian civilians are being arbitrarily detained and subjected to enforced disappearances in Russian-controlled areas. And, a Russian writer in exile is trying to fundraise for Ukrainians.

(Photo: People stand in a line during the distribution of humanitarian aid in the besieged city of Mariupol, 24 March, 2022. Credit: Reuters)

**FRI 15:00 BBC News (w172xzk31pkchpj)**

The latest five minute news bulletin from BBC World Service.

**FRI 15:06 HARDtalk (w3ct1n2q)**

[Repeat of broadcast at 08:06 today]

**FRI 15:30 BBC News Summary (w172xzkxhf51vyx)**

The latest two minute news summary from BBC World Service.

**FRI 15:32 World Business Report (w172y4785blws5f)**

US announces EU liquefied natural gas deal

The US has announced it is to significantly boost liquefied natural gas supply to the EU. The move is a bid to help reduce European reliance on Russian energy in the wake of its invasion of Ukraine, and we explore to what extent the deal will achieve that aim with Dr Aura Sabadus of Independent Commodity Intelligence Services. And the BBC's Adrienne Murray reports on a new pipeline that will carry natural gas from Norway to Poland. Also in the programme, Poland has taken in more than two million Ukrainian refugees as a result of the recent conflict. We hear about the economic impact that is having in Poland from Alicja Ptak, who is a Reuters correspondent based in Warsaw. Plus, a landmark new law planned in the European Union aims to reduce the dominance of technology giants like Apple and Google. The BBC's technology correspondent Mark Cieslak tells us what is in the proposals.

Today's edition is presented by Matthew Davies, and produced by Clare Williamson, Ivana Davidovic and Tom Kavanagh.

(Picture: Joe Biden and Ursula von der Leyen. Picture credit: Getty Images.)

**FRI 16:00 BBC News (w172xzk31pkcmfn)**

The latest five minute news bulletin from BBC World Service.

**FRI 16:06 BBC OS (w172xxy240ntmd5)**

Ukraine takes back towns east of Kyiv

As we continue our coverage of the Russian invasion of Ukraine, James Waterhouse in Kyiv tells us about Ukraine's counter-attacks near the capital and about the situation in other cities, like Mariupol, where the fighting has continued.

We also go to Poland to talk about President Biden's visit near the border, where many refugees have been arriving from Ukraine.

Our Business Correspondent explains the significance of a major deal on liquefied natural gas between the US and the EU, with the aim of reducing Europe's reliance on Russian energy.

And in other news, we hear from northern Ethiopia where a truce between rebel forces and government forces is allowing aid deliveries to millions of people in urgent need of assistance in the Tigray region.

(Photo: A Ukrainian soldier holding his gun at a funeral for a volunteer fighter in Kyiv. Credit: EPA/Atef Safadi)

**FRI 17:00 BBC News (w172xzk31pkcr5s)**

The latest five minute news bulletin from BBC World Service.

**FRI 17:06 BBC OS (w172xxy240ntr47)**

How is the war in Ukraine seen across Africa?

We continue our coverage of the Russian invasion of Ukraine, bringing you the latest of what's happening on the ground.

We conclude our series looking at how the world is viewing and discussing the war in Ukraine. Our correspondents across Africa explain Russia's relationship and presence in the continent and why countries like South Africa have maintained a neutral position.

We hear and speak to Africans about the conversations they are having and bring together two African students who recently managed to escape the fighting in Ukraine.

(Photo: Locals clean up debris from the cultural centre destroyed in shelling in the village of Byshiv outside Kyiv. Credit: Reuters/Marko Djurica)

**FRI 18:00 BBC News (w172xzk31pkcvxx)**

The latest five minute news bulletin from BBC World Service.

**FRI 18:06 BBC OS (w172xxy240ntwvc)**

Ukraine takes back towns east of Kyiv

We continue our coverage of the Russian war in Ukraine - Russia says its initial aims in the east are mostly complete, but there are clear indications the invasion has stalled.

Our Business Correspondent explains the significance of a major deal on liquefied natural gas between the US and the EU, with the aim of reducing Europe's reliance on Russian energy.

And we bring together two Nigerian students who recently managed to escape the fighting in Ukraine.

(Photo: Service members of pro-Russian troops in an armoured vehicle with the symbols "Z" painted on its sides. Credit: Reuters/Alexander Ermochenko)

**FRI 19:00 BBC News (w172xzk31pkczp1)**

The latest five minute news bulletin from BBC World Service.

**FRI 19:06 The Newsroom (w172xxy0pcpgjn9)**

The world's Newsroom brings you global events as they happen

**FRI 19:30 BBC News Summary (w172xzkxhf52byf)**

The latest two minute news summary from BBC World Service.

**FRI 19:32 Sport Today (w172y0nw38jgvdh)**

2022/03/25 GMT

BBC sports correspondents tell the story behind today's top sporting news, with interviews and reports from across the world.

**FRI 20:00 BBC News (w172xzk31pkd3f5)**

The latest five minute news bulletin from BBC World Service.

**FRI 20:06 Tech Tent (w3ct1njg)**

The tech of war crime investigation

This week's episode features an interview with Wendy Betts, who is involved with an app developed for war crimes investigators. John Hultquist, who's Vice President of the cyber security firm, Mandiant, speaks about the cyber threat Russia poses to the US. And Tom Gerken reports on the millions of dollars raised by people playing Fortnite for the Ukrainian humanitarian effort.

**FRI 20:30 BBC News Summary (w172xzkxhf52gpk)**

The latest two minute news summary from BBC World Service.

**FRI 20:32 CrowdScience (w3ct1pry)**

Why do animals migrate?

Wherever you are in the world you are probably near an animal that has undertaken a remarkable migratory journey, be that a butterfly, bird or sea turtle. But what CrowdScience listener Moses in Kenya wants to know is why they bother making such long and precarious voyages - and how they're able to reliably navigate over hundreds and sometimes even thousands of miles. In this first of two episodes, presenter Anand Jagatia travels to the Americas to meet the scientists finding and tracking these animals in order to solve the puzzle of where they go and why.

Deep in the lush and noisy Belizean jungle, Anand joins avian biologist Abidas who is collecting data on the beautiful birds that visit tropical forests to escape harsh winters. Here, using misting nets, Abidas and her team carefully catch birds to measure their health and status before tagging and releasing them so they can continue stocking up on jungle food. Anand finds out why having long term data on migrant birds can help in understanding why some birds, like the wood thrush, have been declining in their native homes further north.

Anand then jumps aboard a turtle boat in Florida where scientists from the Sea Turtle Conservancy have been collecting data on these dinosaur-like creatures. But finding them is harder it might seem. They move fast, so Anand accompanies the research team who are experienced in safely catching them, will he be lucky and find one of these magnificent creatures?

Presented by Anand Jagatia and produced by Melanie Brown

Contributors:  
David Barrie - Navigator & author  
Tim Guilford - University of Oxford

[Image credit: BBC Staff, Melanie Brown]

**FRI 21:00 BBC News (w172xzk31pkd759)**

The latest five minute news bulletin from BBC World Service.

**FRI 21:06 Newshour (w172xv5nm3sw6gx)**

Interviews, news and analysis of the day's global events.

**FRI 22:00 BBC News (w172xzk31pkdxbf)**

The latest five minute news bulletin from BBC World Service.

**FRI 22:06 The Newsroom (w172xxy0pcpgywp)**

The world's Newsroom brings you global events as they happen

**FRI 22:30 BBC News Summary (w172xzkxhf52q5t)**

The latest two minute news summary from BBC World Service.

**FRI 22:32 World Business Report (w172y4785blws5g)**

US announces EU liquefied natural gas deal

The US has announced it is to significantly boost liquefied natural gas supply to the EU. The move is a bid to help reduce European reliance on Russian energy in the wake of its invasion of Ukraine, and we explore to what extent the deal will achieve that aim with Dr Aura Sabadus of Independent Commodity Intelligence Services. And the BBC's Adrienne Murray reports on a new pipeline that will carry natural gas from Norway to Poland. Also in the programme, Poland has taken in more than two million Ukrainian refugees as a result of the recent conflict. We hear about the economic impact that is having in Poland from Alicja Ptak, who is a Reuters correspondent based in Warsaw. Plus, a landmark new law planned in the European

Union aims to reduce the dominance of technology giants like Apple and Google. The BBC's technology correspondent Mark Cieslak tells us what is in the proposals.

(Picture: Joe Biden and Ursula von der Leyen. Picture credit: Getty Images.)

**FRI 23:00 BBC News (w172xzk31pkdgnk)**

The latest five minute news bulletin from BBC World Service.

**FRI 23:06 HARDtalk (w3ct1n2q)**

[Repeat of broadcast at 08:06 today]

**FRI 23:30 BBC News Summary (w172xzkxhf52txy)**

The latest two minute news summary from BBC World Service.

**FRI 23:32 World Football (w3ct1v0k)**

[Repeat of broadcast at 02:32 today]