

**SATURDAY 16 JULY 2022****SAT 00:00 BBC News (w172ykq4f0kmsw)**

The latest five minute news bulletin from BBC World Service.

**SAT 00:06 The Real Story (w3ct33p4)**

A new phase in the Covid pandemic

After two-and-a-half years of Covid rampaging across the planet, causing millions of deaths and transforming billions of lives, everyone is keen to move on. But this week the head of the World Health Organization warned the public that the pandemic is "nowhere near over" and that with cases rising 30% over the past fortnight we must collectively "push back". This assessment comes after many governments have pulled back on testing and removed restrictions such as the requirement to wear masks in certain public spaces. England's former Deputy Chief Medical Officer says the lethality of Covid-19 is now getting closer to that of the seasonal flu, so how should we adapt to the next phase of the pandemic? Vaccines have prevented many people from getting seriously ill and dying, but only in countries with ready access to jabs and high vaccination rates. The UN estimates roughly 72% of people in high income countries have received at least one dose of a coronavirus vaccine, but the figure for low-income nations is roughly 18%. How much progress has been made in the fight against Covid-19 and what will the next phase of the pandemic look like?

Paul Henley is joined by a panel of expert guests.

Producers: Ellen Otzen and Paul Schuster.

**SAT 01:00 BBC News (w172ykq4f0krk0)**

The latest five minute news bulletin from BBC World Service.

**SAT 01:06 Business Matters (w172ydp22hnlrxx)**

Biden's Saudi balancing act

President Joe Biden is on a peacemaking mission in the Middle East, where he's met with Saudi Arabia's crown prince. Mr Biden once pledged to make the country a global pariah. But does the need for oil detract from human rights concerns? We hear two perspectives on what the trip will achieve from Middle East analyst Sami Hamdi, and US financier Chris Lowe.

Countries around the globe are getting used to hotter temperatures. We hear how humans - and penguins - are being forced to adjust.

Kully Sandhu, an aviation recruitment specialist, explains why London's Heathrow is among the most difficult airports to travel through right now.

It's one of India's biggest cultural exports. But Bollywood fans are staying at home as the industry deals with the rise of streaming.

To discuss all these issues and more, Business Matters is joined by two guests from opposite corners of the world: in Malaysia, financial professional Jessica Khine; and Marketplace reporter Andy Uhler in Texas.

(Picture: Joe Biden is welcomed to Mecca by a Saudi delegation. Credit: Getty Images).

**SAT 02:00 BBC News (w172ykq4f0kw94)**

The latest five minute news bulletin from BBC World Service.

**SAT 02:06 The Newsroom (w172y17rztck6xj)**

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

**SAT 02:30 BBC News Summary (w172ykqz14m87kj)**

The latest two minute news summary from BBC World Service.

**SAT 02:32 Stumped (w3ct370t)**

Prabath Jayasuriya: Sri Lanka's unlikely star

On this week's Stumped with Alison Mitchell, Jim Maxwell and Charu Sharma, we discuss Sri Lanka's heroic win over Australia to draw the Warne-Muralitharan trophy, amid a political and economic crisis within the country. Is the honeymoon period over for Australia captain Pat Cummins and coach Andrew McDonald after they suffered their first Test defeat in their new roles?

We speak to the newly appointed president of FICA, former Australia captain Lisa Sthalekar, on what it means to be the first woman in the position and her goals while in the role.

Plus, how do you hit a six in indoor cricket? With the Indoor World Cup coming up in October, we learn all about the rules of the sport with Australia's Clive Rose.

IMAGE: Sri Lanka's Prabath Jayasuriya celebrates after taking six wickets during the fourth day of the second cricket Test match between Sri Lanka and Australia at the Galle International Cricket Stadium in Galle on July 11, 2022. (Photo by ISHARA S. KODIKARA / AFP) (Photo by ISHARA S. KODIKARA/AFP via Getty Images)

**SAT 03:00 BBC News (w172ykq4f01018)**

The latest five minute news bulletin from BBC World Service.

**SAT 03:06 The Fifth Floor (w3ct37zf)**

Ukraine's art and culture under attack

Artworks taken from collections, museums destroyed: Anastasia Soroka and Grigor Atanesian explore what's been happening to Ukraine's cultural heritage since the war began, in a special BBC Russian report.

From Venezuela to Peru  
Guillermo Olmo is the first BBC Mundo correspondent to be based in Peru. Originally from Spain, he spent a couple of years reporting from Venezuela during a time of protests and economic crisis. So what's it like to shift to a new, quieter country?

A Somali perspective on the Mo Farah story  
The British Olympic champion Sir Mo Farah made headlines this week after revealing that he was illegally brought to the UK as a child. He said he was given the name Mohamed Farah, and made to work as a domestic servant. BBC Somali's Sidiq Burmad is based in Somaliland, where Sir Mo was born.

Why have so many Jordanians lost faith in their government?  
A puppet, a prime minister and a pundit – they all feature in a report by BBC Arabic's Murad Shishani from his home country, Jordan. He was investigating recent survey results showing that trust in the government is the lowest it's been for more than a decade. He tells us what he found out.

K-pop's plastic problem  
In the age of online streaming, K-pop fans still buy multiple physical CDs to get the promotions and merchandise attached to them. But now many are voicing concern about the environmental impact, and demanding a change in the behaviour of bands and fans. BBC Korean's Bugyeong Jung looked into the story.

(Photo: Russian journalists remove portrait of Arkhip Kuindzhi, painted by his pupil Grigory Kalmykov, from Mariupol Kuindzhi Art Museum basement. Credit: Screenshot from UNION TV Channel)

**SAT 03:50 Witness History (w3ct3bwp)**

Fighting for the pill in Japan

The contraceptive pill first was approved for use in the US in 1960. But it wasn't until 1999, that women in Japan were allowed to take oral contraceptives. In 2020, Rebecca Kesby spoke to politician Yoriko Madoka, who fought for the right for Japanese women to take the pill.

(Photo: A collection of contraceptive pills. Credit: Getty Images)

**SAT 04:00 BBC News (w172ykq4f013sd)**

The latest five minute news bulletin from BBC World Service.

**SAT 04:06 The Real Story (w3ct33p4)**

[Repeat of broadcast at 00:06 today]

**SAT 05:00 BBC News (w172ykq4f017jj)**

The latest five minute news bulletin from BBC World Service.

**SAT 05:06 The Newsroom (w172y17rztck14x)**

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

**SAT 05:30 BBC News Summary (w172ykqz14m8lsx)**

The latest two minute news summary from BBC World Service.

**SAT 05:32 Dear Daughter (w3ct42g6)**

Perfect match

Matchmakers, a fake engagement ring and love; welcome to the marriage game. "They'll wonder, are you good enough for their son? The question is, are they good enough for you?"

Episode 7 letter writer: Nashra

Listen online at [bbcworldservice.com/deardaughter](http://bbcworldservice.com/deardaughter)

**SAT 05:50 More or Less (w3ct3k4w)**

Is Uganda about to become a middle income country?

In his State of the Nation address in early June 2022, Uganda's President Yoweri Museveni said that Uganda was on the cusp of becoming a middle income country. That's been contradicted by World Bank figures.

In response to a question from a More or Less fan in Uganda, Tim Harford looks at how a country's income status is calculated and what relevance it has. Featuring Rachel Sebudde, Senior Economist at the World Bank.

Presenter: Tim Harford

Producer: Jon Bithrey, Nathan Gower

Editor: Richard Vadon

Programme Co-Ordinator: Brenda Brown

Sound Engineer: Graham Puddifoot

(Ugandan President Yoweri Museveni speaks at his farm in Kisozi, Gomba district, January 16 2022. BBC Images/Reuters)

**SAT 06:00 BBC News (w172ykq4f01c8n)**

The latest five minute news bulletin from BBC World Service.

**SAT 06:06 Weekend (w172ykwbf75pmw)**

Parliament in Sri Lanka begins selecting a new president

The prime minister, Ranil Wickremesinghe, has been sworn in as temporary leader. But Mr Wickremesinghe has close ties to the Rajapaksa family, which many blame for the country's deep economic crisis, and protesters have demanded that he also step down.

Also on the programme, a UK government Defence Minister has said that allegations that troops belonging to the SAS unit of the British Army killed detainees in Afghanistan will not be "buried" and will be "investigated fully" if the new evidence is given to the Government. And the former Australian Prime Minister Kevin Rudd pays tribute to his friend Shinzo Abe.

And we are joined throughout the programme by Patience Akumu, a lawyer, journalist and programme policy officer for the World Food Programme in Uganda and Sune Engel Rasmussen, a London-based correspondent for the Wall Street Journal newspaper.

**SAT 07:00 BBC News (w172ykq4f01hb0s)**

The latest five minute news bulletin from BBC World Service.

**SAT 07:06 Weekend (w172ykwbf75td0)**

Sri Lanka: temporary leader sworn in

MPs are expected to vote on a new president next Wednesday. Rajitha Senarathne, Sri Lanka's former health minister and now opposition MP, explains to us what will happen next.

Also on the programme; a former US ambassador to Saudi Arabia discusses President Biden's visit to that country. And as the 150th Open Championship golf tournament continues in St Andrews, we take a look at the Saudi sponsored MIV gold tournament which has split the game.

And we are joined throughout the programme by Patience Akumu, a lawyer, journalist and programme policy officer for the World Food Programme in Uganda and Sune Engel Rasmussen, a London-based correspondent for the Wall Street Journal newspaper.

(Picture: Sri Lankan Prime Minister Ranil Wickremesinghe (R) taking the oath as interim president of Sri Lanka before Chief Justice Jayantha Jayasuriya (L). Credit: Shutterstock)

**SAT 08:00 BBC News (w172ykq4f01lrx)**

The latest five minute news bulletin from BBC World Service.

**SAT 08:06 Weekend (w172ykwbf75y44)**

Ukraine: Russia denies targeting civilians in missile strike

At least 23 people have died in Vinnytsia including three children. The city is hundreds of miles from the frontline.

Also on the programme, Sri Lanka has reconvened to select a new president to replace Gotabaya Rajapaksa. And why has the latest edition of the Oxford English Dictionary added 200 new entries for words from East African nations, including Kenya, Uganda and Tanzania?

And our panel this week are Patience Akumu, a lawyer, journalist and programme policy officer for the World Food Programme in Uganda and Sune Engel Rasmussen, a London-based correspondent for the Wall Street Journal newspaper.

(Picture: Vinnysia after the strike. Credit: Reuters)

**SAT 08:30 BBC News Summary (w172ykqz14m8z19)**

The latest two minute news summary from BBC World Service.

**SAT 08:32 The Conversation (w3ct37m2)**

Why women's friendships last

Why are friends who are always there for you so important? Kim Chakanetsa meets two women who've put friendships at the heart of their work to make hugely successful TV series.

Marta Kauffman is a TV executive producer and co-creator of Friends and Grace and Frankie. Her ground-breaking shows, which have friendships at their core, have revolutionised the world of TV series and have broken taboos.

Nicole Amarteifio is a Ghanaian film director and screenwriter. She's best known for her show An African City, which chronicles the adventures of five female friends who return to live in Ghana after spending time abroad. The story is autobiographical and one of the main actors is Nicole's childhood friend.

Produced by Alice Gioia

(Image: (L) Marta Kauffman, credit Okay Goodnight. (R) Nicole Amarteifio, credit Emmanuel Bobbie.)

**SAT 09:00 BBC News (w172ykq4f0lqj1)**

The latest five minute news bulletin from BBC World Service.

**SAT 09:06 BBC OS Conversations (w3ct417p)**

Sri Lanka crisis

In a week where protestors stormed the residences of its leaders, forcing the president to resign, Sri Lanka continues to face its worst economic crisis in more than 70 years.

There have been months of shortages - from fuel and cooking gas to food and medicines. We hear from three doctors in the capital Colombo about running out of essentials such as HIV testing kits. One talks about paying for their patient's cancer treatment out of their own pocket.

Another doctor advises: "Do not get sick. Stick to your routine medications. Don't skip any medicines. Don't climb heights unnecessarily. Take care of yourselves and only, if it's really necessary, come to the hospital because we are running low on supplies."

Host James Reynolds also hears from two Sri Lankans about coping among constant shortages. One was queuing for four days and nights to ensure he had enough petrol in his car to take his wife, who is seven months pregnant, to hospital in case of an emergency.

(Photo: A protest calling for the resignation of the president and PM in Colombo, Sri Lanka, 30 June 2022. Credit: Chamila Karunaratne/EPA)

**SAT 09:30 BBC News Summary (w172ykqz14m92sf)**

The latest two minute news summary from BBC World Service.

**SAT 09:32 Pick of the World (w3ct41wz)**

Political chaos from Sri Lanka to the UK

Protesters in Sri Lanka force the president to flee, and your reaction from around the world as political turmoil also grips UK politics. Plus the woman who wrote sitcom Friends talks about what she would change about the classic 1990s show.

**SAT 09:50 Over to You (w3ct35sf)**

Is the BBC committed to achieving impartiality?

The BBC says it is committed to achieving due impartiality in all its output. But new research into its British audience says there is a perception that the corporation is not fulfilling its remit. So where does that leave the BBC World Service?

We investigate what impartiality means to you and speak with the BBC's director of editorial policy and standards, David Jordan.

Presenter: Rajan Datar  
Producer: Howard Shannon

**SAT 10:00 BBC News (w172ykq4f0lv85)**

The latest five minute news bulletin from BBC World Service.

**SAT 10:06 Sportshour (w172yg8lcv5rh01)**

The Open: Secret behind success

Could Alex Wrigley's secret weapon at The Open be his caddy? Johanna Gustavsson is after all a professional golfer as well as his wife.

We are finding out about the small city of Eugene and the reasons behind why the World Athletic Championships are being held there.

We delve a little deeper into the Tour de France with Sophie Smith, author of Pain and Privilege: Inside Le Tour. The book details the sacrifice and chaos of the race, and threw up some challenging issues about one of the world's most gruelling events.

Plus we preview the last games in Group B of the Euros.

Photo: Thomas Detry of Belgium tees off from the 18th hole during Day One of The 150th Open at St Andrews Old Course on July 14, 2022 (CREDIT: Harry How/Getty Images)

**SAT 11:00 BBC News (w172ykq4f0lv09)**

The latest five minute news bulletin from BBC World Service.

**SAT 11:06 The Newsroom (w172yl7rztcl9mp)**

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

**SAT 11:30 BBC News Summary (w172ykqz14m9b8p)**

The latest two minute news summary from BBC World Service.

**SAT 11:32 Unspun World with John Simpson (w3ct42lx)**

What horrors happened in the Ukrainian town of Bucha?

John Simpson speaks to Fergal Keane, special correspondent, about the atrocities committed by Russian soldiers in the small Ukrainian town of Bucha; finds out what next for Sri Lanka with Ranga Sirilal from the BBC's Sinhala service; asks what President Biden might stand to gain from visiting Saudi Arabia and Israel with the BBC's Middle East correspondent, Anna Foster; asks Hugh Pym, the BBC's health editor, if the principle of free healthcare can withstand the added stress of dealing with pandemics; and the world of work has changed dramatically since Covid but can it last with the BBC's business editor, Simon Jack.

Unspun World provides an unvarnished version of the week's major global news stories with the BBC's world affairs editor John Simpson and the BBC's unparalleled range of experts.

**SAT 12:00 BBC News (w172ykq4f0m2rf)**

The latest five minute news bulletin from BBC World Service.

**SAT 12:06 The Documentary (w3ct43br)**

The Bomb

Who was Klaus Fuchs, the man who stole the bomb? How did a prodigious young talent at the beginning of a promising academic career, evolve into a fully committed Soviet spy, with access to one of the most secretive areas of science and Britain's national defence?

Journalist Rosa Ellis grew up hearing stories about her great aunt, Ursula Kuczynski, aka Agent Sonya, Klaus Fuchs' handler. Rosa wants to find out how Fuchs and her aunt came to cross paths, and how their partnership changed the course of history.

Fuchs comes of age in Nazi Germany, but his scientific brilliance offers him an escape: to England. An 'enemy alien' with Communist leanings, he's soon shipped off to Canada, where he falls into the Soviet espionage web, and upon his return to England, his double life begins. At the same time, another German emigre and scientist, Rudolf Peierls, seeks a trustworthy assistant and a brilliant scientist for the burgeoning British atomic bomb project. So begins a human chain reaction with devastating potential.

Fuchs soon finds himself in the belly of the beast, assisting Peierls on the bomb whilst simultaneously slipping secrets to Agent Sonya, aka Ursula Kuczynski, Rosa's great aunt and the Red Army's leading intelligence officer in Britain.

Fuchs and Peierls' friendship grows stronger and the two are quickly snapped up for the new US atomic effort. Suspicions are raised about Fuchs and his double life suddenly becomes even more dangerous, as his espionage skills are put to the test.

Finally MI5 begin to close in on both Fuchs and Ursula, and top interrogator Skardon pushes their loyalties to the limit. Will Fuchs reveal himself to his closest friends, the Peierls, who trusted him enough to let him stay under their roof? Or will he remain loyal to the cause, and die with his secrets?

**SAT 13:00 BBC News (w172ykq4f0m6hk)**

The latest five minute news bulletin from BBC World Service.

**SAT 13:06 Newshour (w172yfc1plsprfv)**

Biden hopes for oil boost from Saudis

President Biden, hoping for a boost in oil production, holds talks in Saudi Arabia with regional leaders, but says he doesn't expect immediate results.

Also in the programme: Ukrainian soldiers training in Kansas; and keeping cools in a London zoo.

(Picture: U.S. President Joe Biden and Saudi Crown Prince Mohammed bin Salman arrive for the family photo during the "GCC+3" (Gulf Cooperation Council) meeting in Jeddah. Credit: Mandel Ngan/Pool via REUTERS)

**SAT 14:00 BBC News (w172ykq4f0mb7p)**

The latest five minute news bulletin from BBC World Service.

**SAT 14:06 Sportsworld (w172ygst46n08g)**

Live sport from around the world with news, interviews and analysis.

**SAT 18:00 BBC News (w172ykq4f0mt76)**

The latest five minute news bulletin from BBC World Service.

**SAT 18:06 The Newsroom (w172yl7rztcm4v)**

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

**SAT 18:30 BBC News Summary (w172ykqz14mb5hl)**

The latest two minute news summary from BBC World Service.

**SAT 18:32 Dear Daughter (w3ct42g6)**

[Repeat of broadcast at 05:32 today]

**SAT 18:50 Sporting Witness (w3ct36fr)**

Britain's Golden Relay

Despite being hampered by injury in Athens 2004, Darren Campbell helps the British 4x100 metre relay team cause one of the greatest upsets in Olympic history.

(Getty: Darren Campbell at the Athens 2004 Olympics)

**SAT 19:00 BBC News (w172ykq4f0mxzb)**

The latest five minute news bulletin from BBC World Service.

**SAT 19:06 BBC OS Conversations (w3ct417p)**

[Repeat of broadcast at 09:06 today]

**SAT 19:30 BBC News Summary (w172ykqz14mb97q)**

The latest two minute news summary from BBC World Service.

**SAT 19:32 WorklifeIndia (w3ct3jcm)**

Eating out: Should service charge be mandatory?

The practice of tipping is widespread across the world. But when to tip, how much and to whom are questions that often stump people. For example, in the US, it is customary to tip a restaurant server anywhere between 15-25%. In Japan, however, tipping is considered rude.

But should restaurants be collecting a mandatory service charge, irrespective of whether you are happy with the service you have received? This has become the core of an unsavoury debate in India, after a government order banned restaurants from levying a default service charge on food bills. The restaurant association is challenging this ban, saying it isn't illegal and that the amount is important for staff welfare. Many also argue that Indians are not always "generous tippers".

So, should diners have the discretion to accept or reject charges beyond their food bill? And will removing a service charge hurt an industry already suffering from the ill-effects of the pandemic?

In this edition of WorklifeIndia, we discuss whether a service charge should be mandatory when eating out.

Presenter: Devina Gupta  
Contributors: Pradeep Shetty, joint honorary secretary, FHRAI; Nikita Varma, food influencer; Rekha Agarwal, lawyer, consumer rights activist

**SAT 20:00 BBC News (w172ykq4f0n1qg)**

The latest five minute news bulletin from BBC World Service.

**SAT 20:06 The Arts Hour (w3ct390c)**

Actor Chris Hemsworth on playing Thor

On this week's Arts Hour, Nikki Bedi hears from Chris Hemsworth about his role as Thor in his latest movie. Singer Adele talks about how hearing Beyonce for the first time changed her life forever, Bollywood superstar Madhuri Dixit is always delighted at the loyalty of her fans. And Nikki is joined by filmmaker Bassel Ghandour to talk about his acclaimed feature film debut *The Alleys*.

(Photo: Chris Hemsworth. Credit: James D. Morgan/Getty)

**SAT 21:00 BBC News (w172ykq4f0n5gl)**

The latest five minute news bulletin from BBC World Service.

**SAT 21:06 Newshour (w172yfc1plsqqdw)**

Saudi dissident's family members 'disappeared'

President Biden leaves Saudi Arabia after meeting Crown Prince Mohammed bin Salman. We hear from the son of an adviser to the previous Crown Prince, on what he claims is a 'vindictive, transnational repression campaign' waged on his family, including the incarceration of his younger siblings.

Also in the programme: the UN along with the Ethiopian government agrees to help rebuild the rebellious northern province of Tigray, but the authorities there find it 'mindboggling' they have not been consulted; and an extreme heatwave is sweeping across large areas of Europe provoking wildfires.

(Photo: Former Saudi intelligence official Saad al-Jabri (R) sits with his daughter Sarah al-Jabri whilst visiting schools around Boston, U.S. in this handout picture shot in the autumn of 2016. Credit: Khalid al-Jabri/Handout via Reuters)

**SAT 22:00 BBC News (w172ykq4f0n96q)**

The latest five minute news bulletin from BBC World Service.

**SAT 22:06 Music Life (w3ct30k3)**

Rebel against what's expected, with Poliça, Erika Dohi, Real Estate, Twin Shadow and Bessie Turner

Poliça's Channy Leaneagh, Erika Dohi, Real Estate's Martin Courtney, Twin Shadow and Bessie Turner discuss the creative process during the pandemic, learning to not put too much pressure on themselves, and what dream concept album they would make if they had infinite time and resources

Channy Leaneagh has played violin in folk-rock bands, played as part of 25-piece Minnesotan indie-rock group Gayngs, and collaborated with Bon Iver's Justin Vernon. In 2011 she founded the band Poliça, who fuse elements of RnB, experimental indie, dance music, and electronic sounds.

Erika Dohi is a New York-based pianist originally from Osaka, Japan, with an eclectic musical background. She has worked on everything from traditional classical music to improvisation, and her debut album *I, Castorpollux* is as technical as it is emotional.

Bessie Turner is a singer songwriter known for her stunning soulful voice, whose beautiful brand of alt-pop has received praise from DJs across Europe.

Martin Courtney is from the indie-rock band Real Estate. The American singer and guitarist is known for his dreamy soundscapes and jangly guitar sounds that have dominated the genre during the last decade.

Twin Shadow is a Dominican-American singer, songwriter and record producer whose energetic synth-pop sound takes inspiration from Dominican bachata and has achieved huge critical acclaim.

**SAT 23:00 BBC News (w172ykq4f0ndyv)**

The latest five minute news bulletin from BBC World Service.

**SAT 23:06 The Newsroom (w172yrwx4bqcf0f)**

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

**SAT 23:20 Sports News (w172ygh4xp09j04)**

BBC Sport brings you all the latest stories and results from around the world.

**SAT 23:30 BBC News Summary (w172ykqz14mbs77)**

The latest two minute news summary from BBC World Service.

**SAT 23:32 The Cultural Frontline (w3ct37rn)**

Musicians championing indigenous languages

According to the United Nations, optimistic estimates suggest that at least half of today's over 7,000 spoken languages will be extinct or seriously endangered by the end of this century.

2022 sees the start of the United Nations International Decade of Indigenous Languages, drawing global attention to the critical situation faced by many languages and advocating for their preservation and promotion.

One of the people championing first nation languages is Clint Bracknell. He's a musician, singer and songwriter, and releases his music under his Noongar name, Maakitij. Clint is also a Professor of Indigenous Languages in Australia. Clint has teamed up with multi-ARIA Award winning dance producer Paul Mac to release an album sung in Noongar, called *Noongar Wonderland*.

Renata Flores has been described as "Peru's queen of Quechua rap," combining trap, hip-hop, and electronic influences with Andean instruments. When she was only 14 her Quechua cover of Michael Jackson's "The Way You Make Me Feel", got over one million views. Now writing her own songs in Quechua, she uses this urban music to teach young people this ancient language. Renata told our reporter Constanza Hola about her passion for her language.

Singer-songwriter Cina Soul is from Accra, Ghana and performs in Ga. Her songs are infused with Highlife, Soul and R&B. Although Ga was originally spoken in the Ghanaian capital, now languages such as Twi have taken over the cultural scene. Cina tells Tina Daheley how she's been bringing the Ga language and culture back to the mainstream.

Julie Fowles is an award winning folk singer who grew up on the Scottish outer Hebridean island of North Uist. She's a leading exponent for the Scots Gaelic language and traditions, thanks to performances around the world, and even on the soundtrack of Disney Pixar's film, *Brave*.

Producers: Andrea Kidd and Kevin Satizabal Carrasac

(Photo: Clint Bracknell. Credit: Jayga Ringrose)

**SUNDAY 17 JULY 2022****SUN 00:00 BBC News (w172ykq4f0njpz)**

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**SUN 00:06 BBC OS Conversations (w3ct417p)**

[Repeat of broadcast at 09:06 on Saturday]

**SUN 00:30 BBC News Summary (w172ykqz14mbwzc)**

The latest two minute news summary from BBC World Service.

**SUN 00:32 Dear Daughter (w3ct42g6)**

[Repeat of broadcast at 05:32 on Saturday]

**SUN 00:50 More or Less (w3ct3k4w)**

[Repeat of broadcast at 05:50 on Saturday]

**SUN 01:00 BBC News (w172ykq4f0nng3)**

The latest five minute news bulletin from BBC World Service.

**SUN 01:06 The Science Hour (w3ct39zd)**

First images from the James Webb Space Telescope

Roland Pease talks to two astronomers who began working on the James Webb Space Telescope more than two decades ago and have now seen the first spectacular results of their labours. Marcia Rieke of the University of Arizona and JWST's senior project scientist John Mather discuss the highlights of the first four images.

Also in the programme, geologists discover precisely where on the Red Planet the most ancient Martian meteorite came from - we speak to Anthony Lagain whose detective work identified the crater from which the rock was ejected into space. And what causes vast areas of the Indian Ocean to glow with strange light - a rare and mysterious phenomenon known as 'milky seas'? The world is a step closer to understanding this centuries' old maritime enigma thanks to the crew of a yacht sailing south of Java, atmospheric scientist Steven Miller and marine microbiologist Kenneth Nealson.

We are running out of ammunition against certain infections, as bacteria increasingly evade the antibiotics we've relied on for nearly a century. Could bacteriophages - viruses that hunt and kill bacteria - be part of the solution?

In 2019, CrowdScience travelled to Georgia where bacteriophages, also known as phages, have been used for nearly a hundred years to treat illnesses ranging from a sore throat to cholera. Here we met the scientists who have kept rare phages safe for decades, and are constantly on the look-out for new ones. Phages are fussy eaters: a specific phage will happily chew on one bacteria but ignore another, so hunting down the right one for each infection is vital.

Since then, we've lived through a pandemic, the medical landscape has been transformed, and interest in bacteriophages as a treatment option is growing throughout the world. We turn to microbiologist Professor Martha Clokie for updates, including the answer to listener Garry's question: could phages help in the fight against Covid-19?

**SUN 02:00 BBC News (w172ykq4f0ns67)**

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**SUN 02:06 The Newsroom (w172y1rztcn3tm)**

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**SUN 02:30 BBC News Summary (w172ykqz14mc4gm)**

The latest two minute news summary from BBC World Service.

**SUN 02:32 Health Check (w3ct32wm)**

New Covid booster recommendations

As Covid cases rise new recommendations from European health agencies back over 60s to get boosted. Professor Monica Lakhani from University College London explains that this is before the rollout of updated vaccines to target specific variants. Monica also discusses her own research with village communities in India working to benefit infant nutrition.

Also, with the numbers of teenagers experiencing mental health difficulties rising in many parts of the world some schools have turned to mindfulness classes. But how effective are they? Co-author professor Willem Kuyken discusses the results of the long awaited eight year study. Plus is there such a thing as too much confidence?

Presenter: Claudia Hammond

Producer: Erika Wright

(Photo: Multiple vials of booster vaccine on a conveyor belt in a pharmaceutical factory. Credit: SDI Productions/Getty Images)

**SUN 03:00 BBC News (w172ykq4f0nwyc)**

The latest five minute news bulletin from BBC World Service.

**SUN 03:06 The Documentary (w3ct43br)**

[Repeat of broadcast at 12:06 on Saturday]

**SUN 04:00 BBC News (w172ykq4f0np0ph)**

The latest five minute news bulletin from BBC World Service.

**SUN 04:06 From Our Own Correspondent (w3ct329k)**

South Africa's suspicions

A recent spike in mass shootings has unnerved South Africans, as the attacks in Soweto and Pietermaritzburg didn't seem straightforwardly criminal. Andrew Harding explains that with violence and xenophobia running high, while infrastructure languishes, many citizens feel increasingly nervous about their own safety - and wonder who the silent gunmen are working for.

Uzbekistan's authorities cracked down hard when people in Karakalpakstan poured onto the streets to protest about moves to limit their region's legal autonomy. There were violent clashes - leaving at least 18 people dead and hundreds wounded - as demonstrators fought security services. Since then, the state imposed a news blackout, arrested hundreds of suspected agitators, and brought in a night-time curfew. Joanna Lillis first visited the region 20 years ago and returned to report on what sparked the recent unrest.

Since the assassination of former Japanese Prime Minister Shinzo Abe, the tributes to his leadership and his character have poured in from all over the world. He won respect for his determination to 'stand up to China' - and his belief that Japan needed to stand up for itself more on the world stage. But as Rupert Wingfield-Hayes explains, Abe's perspective on Japan's past was a very particular one - and not all Japanese felt comfortable with his outspoken style or his view of their

history.

And as the summer heat beats down on the Mediterranean, with record temperatures already recorded in some spots, and wildfires starting to break out, Amy Liprot explores some ideas on how to protect Algeria's countryside from more blazes this year. In August and September 2021, dozens of Algerians died in forest fires. So what can be done to protect the landscape and the people of the Tell Atlas mountains in future?

Presenter: Pascale Harter  
Producer: Polly Hope

(Image: Political activist Nhlanhla Lux Mohlauli speaking near the scene of a mass shooting in Soweto where 16 people were shot dead on 10 July 2022. Credit: Emmanuel Croset/AFP via Getty Images)

**SUN 04:30 BBC News Summary (w172ykqz14mccyw)**

The latest two minute news summary from BBC World Service.

**SUN 04:32 The Cultural Frontline (w3ct37rn)**

[Repeat of broadcast at 23:32 on Saturday]

**SUN 05:00 BBC News (w172ykq4lf0p4fm)**

The latest five minute news bulletin from BBC World Service.

**SUN 05:06 The Newsroom (w172y17rztcnh20)**

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

**SUN 05:30 BBC News Summary (w172ykqz14mchq0)**

The latest two minute news summary from BBC World Service.

**SUN 05:32 The Documentary (w3ct42rc)**

Shrimps, saris and guns

Deep in the jungles of Bangladesh, a small group of women secretly practise army-style drills. This small team, made exclusively of female village residents, are fighting a global economic force - the world's insatiable appetite for shrimp. The BBC's Faarea Masud investigates as the demand for shrimp is destroying the land the women have farmed for centuries, and they are willing to do everything they can to protect it from the illegal intensive farming which renders their farmland rapidly unusable. With allegations of payments made to corrupt officials to turn a blind eye, and with little financial clout themselves, the women have taken matters into their own hands in the battle with the global shrimp industry.

(Photo: Rice farmer in Bangladesh)

**SUN 06:00 BBC News (w172ykq4lf0p85r)**

The latest five minute news bulletin from BBC World Service.

**SUN 06:06 Weekend (w172ykwbf78ljz)**

Searing heatwave in Europe

Wildfires are spreading in southern Europe, as record breaking temperatures spread across the continent. We hear from Spain and Portugal.

Also, the COP26 chairman, Alok Sharma, about the climate policies of the candidates vying to be Britain's next Prime Minister.

And the latest on the political situation in Sri Lanka.

Joining Julian Worricker to discuss these and other issues are Paula Erizanu, a Moldovan journalist based in London; and Peter Neumann, Professor of Security Studies at King's College London.

(Image: Digital board indicating 47 degrees Celsius at Opera Square in Madrid, Spain. Credit: Getty Images)

**SUN 07:00 BBC News (w172ykq4lf0pcxw)**

The latest five minute news bulletin from BBC World Service.

**SUN 07:06 Weekend (w172ykwbf78q93)**

The psychological effects of the war in Ukraine

Death in the Donbas: We assess the human and psychological impact of those dealing with death everyday in the war.

Also, record breaking heat in Europe.

Joining Julian Worricker to discuss these and other issues are Paula Erizanu, a Moldovan journalist based in London; and Peter Neumann, Professor of Security Studies at King's College

London.

(Image: A man approaches the body of his son who was reportedly killed by a cluster rocket in the Donbas. Credit: ARIS MESSINIS/AFP via Getty Images)

**SUN 08:00 BBC News (w172ykq4lf0pph0)**

The latest five minute news bulletin from BBC World Service.

**SUN 08:06 Weekend (w172ykwbf78v17)**

Mykolaiv's Governor, Vitaliy Kim, speaks to Weekend

We hear from the governor of the Ukrainian city of Mykolaiv about the impact of the war on the strategically important city.

Also, searing heat and wildfires are hitting Europe and ruining holidays.

Joining Julian Worricker to discuss these and other issues are Paula Erizanu, a Moldovan journalist based in London; and Peter Neumann, Professor of Security Studies at King's College London.

(Image: Vitaliy Kim, Governor of Mykolaiv. Credit: AFP)

**SUN 08:30 BBC News Summary (w172ykqz14mcyd)**

The latest two minute news summary from BBC World Service.

**SUN 08:32 The Food Chain (w3ct38n2)**

In search of a food champion

From tackling poverty and hunger, to maggot farming, to harnessing the power of seaweed - since 2017, The Food Chain has been celebrating and rewarding innovation in food. This year, as part of the BBC Food and Farming Awards, we're looking for a new champion who is trying to change the way we deal with our food.

With the launch of our 2022 award, Ruth Alexander catches up with two previous winners, school meals project the Akshaya Patra Foundation, and Gabriella D'Cruz, marine conservationist, to find out how their work has progressed and how they are navigating huge global challenges like climate change, the Covid-19 pandemic and rising food prices.

Do you know a remarkable person aged 18-30 who's challenging the way we think about food? Nominate them for our Global Youth Champion Award 2022.

Find out more and read our terms and privacy notice here: [bbc.com/foodchain](http://bbc.com/foodchain)

Nominations close at **23:00** GMT on Thursday, 4 August 2022.

If you would like to get in touch with the show, please email: [thefoodchain@bbc.co.uk](mailto:thefoodchain@bbc.co.uk)

Picture: Woman holding a plant growing in soil (Credit: Getty/BBC)

Producer: Elisabeth Mahy

**SUN 09:00 BBC News (w172ykq4lf0pmf4)**

The latest five minute news bulletin from BBC World Service.

**SUN 09:06 From Our Own Correspondent (w3ct329k)**

[Repeat of broadcast at 04:06 today]

**SUN 09:30 BBC News Summary (w172ykqz14mczpj)**

The latest two minute news summary from BBC World Service.

**SUN 09:32 Outlook (w3ct41dp)**

How the tigress of basketball fought back

Malebogo Molefhe is a trailblazing basketball player from Botswana. The only girl in a game played by boys, she was called the 'tigress' and rose to be captain of her country's first ever women's national basketball team. But off the court she was controlled and abused by her partner, culminating in a brutal attack where he shot her eight times, leaving both her legs paralysed. Traumatized and with life-changing injuries, Malebogo fought to reclaim her life - and to find a way back to basketball. (A longer version of this interview was first broadcast in September 2020.)

If you've been affected by any of the issues in this episode, you can find support at BBC Action Line: [www.bbc.co.uk/actionline](http://www.bbc.co.uk/actionline).

Presenter: Anu Anand  
Producer: Maryam Maruf

(Photo: Malebogo Molefhe, bottom left. Credit: Courtesy of Malebogo Molefhe)

**SUN 10:00 BBC News (w172ykq4lf0pr58)**

The latest five minute news bulletin from BBC World Service.

**SUN 10:06 People Fixing The World (w3ct3j2j)**

The power of group therapy

Therapy has been helping Boko Haram survivors and street youth in Liberia turn their lives around.

In northern Nigeria, a programme called Counselling on Wheels is offering mobile mental health services in remote and dangerous areas.

They've been giving Boko Haram survivors and others affected by conflict a safe space to talk about the horrific violence and trauma they have been exposed to.

In Liberia, a project called Sustainable Transformation of Youth in Liberia has been using cognitive behavioural therapy and a cash reward to turn young men away from crime. A new study has shown the scheme is working.

Presenter: Myra Anubi

Producer/reporter: Lucy Burns  
Liberia producer: Massa Kanneh  
Production Co-ordinator: Ibtisam Zein  
Sound mix: Hal Haines  
Executive producer: Tom Colls  
Editor: Penny Murphy

Image: Counselling on Wheels (Credit: Neem Foundation)

**SUN 10:30 BBC News Summary (w172ykqz14md3fn)**

The latest two minute news summary from BBC World Service.

**SUN 10:32 Heart and Soul (w3ct423h)**

Conversion Norway-style

In 2007 Christian and Muslim leaders in Norway controversially recognised for the first time in modern history, the right to convert between the two faiths without harassment or impediment. They also called for all missionary work to be conducted "without force or manipulation".

The "Joint declaration on the freedom of religion and the right to conversion" was welcomed as an important contribution to inter-faith dialogue in the Scandinavian nation. But it was also seen by some Muslims as recognizing the right to abandon Islam, which is considered apostasy and punishable as a criminal offense in many Muslim countries. It was similarly criticised by some of Norway's evangelical churches, which saw it as disavowing their central missionary role.

Reporter Maddy Savage travels to Norway to hear the stories of some of those who've chosen to convert from one of the two faiths to the other; and to ask whether the joint declaration played any role in their life changing decisions.

**SUN 11:00 BBC News (w172ykq4lf0pvxd)**

The latest five minute news bulletin from BBC World Service.

**SUN 11:06 The Newsroom (w172y17rztcp6js)**

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

**SUN 11:30 BBC News Summary (w172ykqz14md75s)**

The latest two minute news summary from BBC World Service.

**SUN 11:32 The Compass (w3ct42lb)**

The Reclaimers

The reclaimers: Bronzes and Birmingham

Actor and musician Kema Sikazwe is on a mission to uncover his own personal history as he leaves the UK to return to his homeland of Zambia for the first time since he was three years old.

As Kema travels, he learns how museums are telling the uncomfortable stories behind some of the objects in their collection. He joins pupils from his old primary school learning why The Great North Museum in Newcastle is offering to return an ancient musical instrument to Nigeria. Arriving in Birmingham, Sara Wajid, co-director of Birmingham Museums explains how 'decolonising museums' goes way beyond returning objects. He also meets legendary photographer Vanley Burke, putting together a new exhibition with curator Candice Nembhard at the former home of a

famous industrialist in Handsworth.

Meeting the young members of We Are Birmingham, Kema hears how they have been challenged to transform the iconic round room at Birmingham's Museum and Art Gallery, and seeks their advice on how best to approach his own forthcoming journey.

Presenter: Kema Sikazwe  
Producer: Andy Jones and Will Sander  
A Radio Film production for BBC World Service

(Photo: Kema holds up a coin in the Future Coin museum)

**SUN 12:00 BBC News (w172ykq4f0pznj)**  
The latest five minute news bulletin from BBC World Service.

**SUN 12:06 The Inquiry (w3ct39f6)**  
Did organic farming cause Sri Lanka's collapse?

Sri Lanka is now in the worst economic crisis they have seen in decades, schools are closed, fuel is in short supply, there are power cuts and a shortage of food. The President has been forced to resign and the political future of the country is uncertain.

But can the current problems be traced back to a decision to take the country's food production completely organic?

In 2021 the President of Sri Lanka announced a total ban on chemical fertilizer and pesticides. Health concerns were given as a reason, but in the background was the pandemic, loss of tourism and a lack of natural fertilizer available in the country.

After protests the ban on chemical fertilizer was reversed, but had it already caused too much damage?

This week on The Inquiry we ask, did organic farming cause Sri Lanka's collapse?

Presenter: Charmaine Cozier  
Producer: Louise Clarke-Rowbotham  
Researcher: Christopher Blake  
Technical Producer: Richard Hannaford

(Anti government protesters invade the president's office in Colombo, Sri Lanka. 9 July 22 Credit: Tharaka Basnayaka /Getty Images)

**SUN 12:30 BBC News Summary (w172ykqz14mdbxx)**  
The latest two minute news summary from BBC World Service.

**SUN 12:32 Assignment (w3ct303t)**  
Ukraine war: The man who came back from the dead

The incredibly story of Ivan Skyba, the sole survivor of one of the worst atrocities of the war in Ukraine. In March 2022, Russian troops shot dead eight unarmed men in a mass execution in the town of Bucha, outside Kiev. But incredibly, one man who the Russians thought they'd killed, managed to survive the massacre. The BBC's special correspondent Fergal Keane traveled to Ukraine to uncover what happened and meet Ivan Skyba, the man who came back from the dead.

Photo: Ivan Skyba who survived the massacre at 144 Yablunska Street in Bucha, Ukraine (BBC)

Reporter: Fergal Keane  
Producers: Orsi Szoboszlai and Alex Last  
Fixers: Sofia Kochmar-Tymoshenko, Viacheslav Shramovych, Rostyslav Kubik  
Series Editor: Penny Murphy  
Studio Mix: Graham Puddifoot and Neil Churchill  
Production Coordinators: Gemma Ashman and Iona Hammond

**SUN 13:00 BBC News (w172ykq4f0q3dn)**  
The latest five minute news bulletin from BBC World Service.

**SUN 13:06 Newshour (w172yfc1plssnby)**  
Heat hammers Europe and North Africa

Extreme heat hits a wide swathe of Europe and North Africa, with record temperatures in Spain and Portugal and wildfires in France, Greece and Morocco. We report from Portugal, and discuss the increasing frequency and intensity of heatwaves worldwide.

Also on the programme: a dose of realism from the head of the UK's armed forces on the war in Ukraine; and there've never been more Covid cases in Japan, so why is there no return to border controls and lockdown restrictions?

(Image: Trees burning in a fire that broke out near Landiras, as

wildfires continue to spread in the Gironde region of southwestern France, July 16, 2022 / Credit: handout from the fire brigade of the Gironde region (SDIS 33) via REUTERS)

**SUN 14:00 BBC News (w172ykq4f0q74s)**  
The latest five minute news bulletin from BBC World Service.

**SUN 14:06 The Forum (w3ct38sl)**  
Taras Shevchenko: The slave who became a symbol of Ukrainian independence

There are hundreds of monuments to the poet and painter Taras Shevchenko not just in Ukraine but all over the world. It is hard to overstate the importance of Shevchenko for most Ukrainians. For them he is not just the national poet who breathed new life into the Ukrainian language but a symbol of their country's independence. His words kept the national spirit alive during the decades of forced Russification in the 19th Century and they found renewed resonance during the 2014 Maidan uprising. But Shevchenko's work is less well known beyond eastern Europe.

To remedy this Bridget Kendall is joined by Ukrainian writers and literary scholars Olha Poliukhovych from the National University of Kyiv - Mohyla Academy and Mykhailo Nazarenko from Taras Shevchenko Kyiv National University, and by professor of Slavonic studies at Vienna University Michael Moser. The reader is Ivantiy Novak.

(Photo: A monument to Taras Shevchenko by Igor Grechanyk in Kyiv, Ukraine. Credit: Sergii Kharchenko/NurPhoto/Corbis/Getty Images)

**SUN 14:50 Over to You (w3ct35sf)**  
[Repeat of broadcast at 09:50 on Saturday]

**SUN 15:00 BBC News (w172ykq4f0qbwX)**  
The latest five minute news bulletin from BBC World Service.

**SUN 15:06 Music Life (w3ct30k3)**  
[Repeat of broadcast at 22:06 on Saturday]

**SUN 16:00 BBC News (w172ykq4f0qgn1)**  
The latest five minute news bulletin from BBC World Service.

**SUN 16:06 Sportsworld (w172ygst46r4nt)**  
Live sport from around the world with news, interviews and analysis.

**SUN 19:00 BBC News (w172ykq4f0qtwf)**  
The latest five minute news bulletin from BBC World Service.

**SUN 19:06 The Newsroom (w172y17rztcq5ht)**  
The world's Newsroom brings you global events as they happen

**SUN 19:30 BBC News Summary (w172ykqz14mf64t)**  
The latest two minute news summary from BBC World Service.

**SUN 19:32 Unspun World with John Simpson (w3ct42lx)**  
[Repeat of broadcast at 11:32 on Saturday]

**SUN 20:00 BBC News (w172ykq4f0qymk)**  
The latest five minute news bulletin from BBC World Service.

**SUN 20:06 The History Hour (w3ct39f1)**  
Stories from the abortion fight frontline

Stories from around the world on women's reproductive rights. Women fighting both sides of the abortion debate as well as the first Muslim country to legalise abortion. Also, the development of the Pill and why Japan took so long to make it legal for women.

(Image: Speakers from Tunisia Women's Union at an event. Credit: Saïda El Gueyed)

**SUN 21:00 BBC News (w172ykq4f0r2cp)**  
The latest five minute news bulletin from BBC World Service.

**SUN 21:06 Newshour (w172yfc1plstm9z)**  
Europe's wildfires intensify

Heatwaves and wild fires spread from France to Portugal and Greece as thousands are evacuated, we will hear from Greece.

Also in the programme, the Sri Lankan priest on the frontlines of the protest movement, violence in south-west Sudan and the arrest of one of Mexico's most wanted drug traffickers.

(Photo: Southern Spain: Fires in the Mijas hills are not far from holiday homes; Credit: Ashley Baker)

**SUN 22:00 BBC News (w172ykq4f0r63t)**  
The latest five minute news bulletin from BBC World Service.

**SUN 22:06 Tech Tent (w3ct375b)**  
Twitter and Elon Musk: The deal goes sour

As Twitter launches legal action to compel Elon Musk to complete a takeover he says he now wants to stop, Silicon Valley tech reporter James Clayton and New York business correspondent, Michelle Fleury join us to take stock of how what was meant to be the biggest deal in tech has turned into the industry's biggest row instead. Tech Tent also speaks to Carl Pei as he launches the Nothing One and attempts to shake up the smartphone market. China analyst Kerry Allen tells us about screen time for Chinese children being strictly limited over the summer holidays - and why Heardle fans are unhappy about it being bought by Spotify.

**SUN 22:30 BBC News Summary (w172ykqz14mfkd6)**  
The latest two minute news summary from BBC World Service.

**SUN 22:32 Pick of the World (w3ct41wz)**  
[Repeat of broadcast at 09:32 on Saturday]

**SUN 22:50 Over to You (w3ct35sf)**  
[Repeat of broadcast at 09:50 on Saturday]

**SUN 23:00 BBC News (w172ykq4f0r9vy)**  
The latest five minute news bulletin from BBC World Service.

**SUN 23:06 The Newsroom (w172yrwx4bqg9xj)**  
The world's Newsroom brings you global events as they happen

**SUN 23:20 Sports News (w172ygh4xp0ddx7)**  
BBC Sport brings you all the latest stories and results from around the world.

**SUN 23:30 BBC News Summary (w172ykqz14mf4b)**  
The latest two minute news summary from BBC World Service.

**SUN 23:32 Outlook (w3ct41dp)**  
[Repeat of broadcast at 09:32 today]

## MONDAY 18 JULY 2022

**MON 00:00 BBC News (w172ykq4f0rfm2)**  
The latest five minute news bulletin from BBC World Service.

**MON 00:06 From Our Own Correspondent (w3ct329k)**  
[Repeat of broadcast at 04:06 on Sunday]

**MON 00:30 BBC News Summary (w172ykqz14mfswg)**  
The latest two minute news summary from BBC World Service.

**MON 00:32 Heart and Soul (w3ct423h)**  
[Repeat of broadcast at 10:32 on Sunday]

**MON 01:00 BBC News (w172ykq4yp9wdmc)**  
The latest five minute news bulletin from BBC World Service.

**MON 01:06 The Newsroom (w172y17sc2nvr7r)**  
The world's Newsroom brings you global events as they happen

**MON 01:30 BBC News Summary (w172ykqzddxkrwr)**  
The latest two minute news summary from BBC World Service.

**MON 01:32 Discovery (w3ct42s0)**  
The mysterious particles of physics, part 2

Episode 2: Lost in the Dark

Physics is getting a good understanding of atoms, but embarrassingly they're only a minor part of the Universe. Far

more of it is made of something heavy and dark, so-called dark matter. The scientists who discovered the Higgs boson ten years ago thought they'd also create dark matter in the underground atom smasher at CERN. But they haven't seen it yet. Roland Pease joins them as they redouble their efforts at the upgraded Large Hadron Collider, and travels to Boulby Underground Laboratory inside Britain's deepest mine, where subterranean telescopes hope to see dark matter streaming through the Galaxy.

Image: CMS Beampipe removal LS2 2019 (Credit: Maximilien Brice/CERN)

**MON 02:00 BBC News (w172ykq4yp9wjch)**

The latest five minute news bulletin from BBC World Service.

**MON 02:06 The Newsroom (w172yl7sc2nvzvz)**

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

**MON 02:30 BBC News Summary (w172ykqzddxkwmw)**

The latest two minute news summary from BBC World Service.

**MON 02:32 The Climate Question (w3ct3kj5)**

Can we feed the world without using chemical fertilisers?

The development of agriculture some 12,000 years ago changed the way humans live.

As technologies have developed we've become more and more efficient at producing large amounts of food and feeding an ever growing population, often with the help of synthetically produced nitrogen fertiliser.

These fertilisers can damage ecosystems. They also produce a potent greenhouse gas called Nitrous Oxide which is 265 times more warming than carbon dioxide. It's estimated that the manufacturing and use of this fertiliser contributes 2% of global greenhouse gas emissions. But is it feasible to ban synthetic nitrogen fertilisers or would that risk plunging the world into mass food insecurity?

Join presenters Qasa Alom and Graihagh Jackson as they journey from an urban garden in Sri Lanka, where a radical fertiliser ban caused chaos, to eastern Africa where Kenyan farmers are mixing tradition with new technology to try and save the world's climate, and its soils.

With thanks to:

Dr Rona Thompson, Senior Scientist at the Norwegian Institute for Air research, Norway  
Professor Manish Raizada, dept. of Plant Agriculture, at the University of Guelph, Canada  
Dr David Lelei, research associate at CIFOR-ICRAF, Nairobi, Kenya  
Elijah Musenya, farmer, western Kenya.

And Phelystus Wayeta, for travelling to Western Kenya to report on farmers and farming practices.

Producer: Lizzy McNeill

Reporter: Aanya Wipulasena, Colombo, Sri Lanka

Researchers: Imogen Serwotka

Production co-ordinators: Helena Warwick-Cross, Siobhan Reed.

Series Producer: Alex Lewis

Editor: Richard Fenton-Smith

Sound Mix: Tom Brignell

**MON 03:00 BBC News (w172ykq4yp9wn3m)**

The latest five minute news bulletin from BBC World Service.

**MON 03:06 Tech Tent (w3ct375b)**

[Repeat of broadcast at 22:06 on Sunday]

**MON 03:30 BBC News Summary (w172ykqzddxl0d)**

The latest two minute news summary from BBC World Service.

**MON 03:32 Pick of the World (w3ct41wz)**

[Repeat of broadcast at 09:32 on Saturday]

**MON 03:50 Over to You (w3ct35sf)**

[Repeat of broadcast at 09:50 on Saturday]

**MON 04:00 BBC News (w172ykq4yp9wrvr)**

The latest five minute news bulletin from BBC World Service.

**MON 04:06 The Newsroom (w172yl7sc2nw3h4)**

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

**MON 04:30 BBC News Summary (w172ykqzddxl444)**

The latest two minute news summary from BBC World Service.

**MON 04:32 The Conversation (w3ct37m3)**

Powered by women: Lineworkers

Kim Chakanetsa meets two women who bring electricity to communities in the US and New Zealand.

Maureen Miller is a listener from Wisconsin in the US who got in touch to tell us why she is so passionate about being a journeyman lineman. She talks about bringing power to communities devastated by hurricanes and floods and she tells us about the skills required to do this extremely dangerous work.

Laisa Pickering-Bryant is the first female distribution line mechanic at her company to work on live high voltage lines. She was born and raised on the Fiji Islands and she currently lives in Auckland, New Zealand. Laisa is also part of Connexis, a project training and mentoring women working in infrastructure.

Produced by Alice Gioia

(Image: (L) Maureen Miller, credit courtesy of Maureen Miller. (R) Laisa Pickering-Bryant, credit courtesy of Laisa Pickering-Bryant.)

**MON 05:00 BBC News (w172ykq4yp9wwlw)**

The latest five minute news bulletin from BBC World Service.

**MON 05:06 Newsday (w172yf8lqp8xj89)**

President Zelensky fires Head of Ukraine's security agency and Prosecutor General

Ukraine's President Zelensky has sacked the head of the intelligence service and the country's top prosecutor, alleging some of their staff have collaborated with Russia.

In Sri Lanka, protesters are demanding the acting president be denied the job permanently and want wholesale change at the top of Sri Lanka's politics. We'll go live to Colombo.

Pakistan's former Prime Minister, Imran Khan, could be on the way to a comeback, after his party swept to victory in elections in the country's largest province. We'll get a reaction from the country.

**MON 06:00 BBC News (w172ykq4yp9x0c0)**

The latest five minute news bulletin from BBC World Service.

**MON 06:06 Newsday (w172yf8lqp8xn0f)**

Ukrainian President sacks top officials

Ukrainian President Volodymyr Zelensky has sacked his security chief and top prosecutor over accusations of treason and collaboration with Russia. We'll explore what this means for Ukraine as it continues to face the Russian invasion.

Also, Europe burns as record temperatures bake the Mediterranean region. We'll speak to a French senator on whether governments can do more to prevent this kind of disaster.

Also, we'll go to Sri Lanka as the country attempts to rebuild a devastated economy, as the President resigned last week.

**MON 07:00 BBC News (w172ykq4yp9x434)**

The latest five minute news bulletin from BBC World Service.

**MON 07:06 Newsday (w172yf8lqp8xrrk)**

President Zelensky fires security chief and top prosecutor

The Ukrainian President, Volodymyr Zelensky, has sacked his security chief and top prosecutor over accusations of treason and collaboration with Russia within their departments. We'll go live to Kyiv to hear what's going on.

Also, more evacuations as Mediterranean wildfires spread. We'll speak to an environmental scientist in Spain where temperatures are topping forty-five degrees celsius.

Also in the programme, we have a special report on a pro-democracy activist who's been on hunger strike in jail for more than 100 days in Egypt.

**MON 08:00 BBC News (w172ykq4yp9x7v8)**

The latest five minute news bulletin from BBC World Service.

**MON 08:06 HARDtalk (w3ct32lm)**

Omah Lay: Is there a universal message in his music?

Sarah Montague speaks to Afrobeats musician Omah Lay. With its roots in the social activist Afrobeat music pioneered by Fela Kuti, is there a universal message in the music of this young Nigerian singer-songwriter?

(Photo: Omah Lay talks to Sarah Montague)

**MON 08:30 BBC News Summary (w172ykqzddxlm3n)**

The latest two minute news summary from BBC World Service.

**MON 08:32 Business Daily (w3ct30xf)**

Military contracts in India

Lots of people want to work in the military in India – the jobs offered security, prospects and a gold-plated pension. But a new Government plan to change military employment contracts has drawn criticism and led to protests. The Government say the changes will tackle the increasing cost of military pensions and stubbornly high unemployment across India.

Rahul Tandon and reporter Archana Shukla will explain why so many young people feel cheated by the plan to shorten military contracts and remove the right for many recruits to a pension. We hear from those attempting to get into the military, former officers, the Government and economists on the new contracts and ask what impact they could have on India's long standing youth unemployment problem.

Presenter: Rahul Tandon

Reporter: Archana Shukla

Producer: Carmel O'Grady

Image

**MON 08:50 Witness History (w3ct3byz)**

The school for telenovela stars

In 1987, broadcaster Televisa set up a drama school in Mexico City to train actors for its hugely popular telenovelas, Mexican soap operas. The Centro de Educación Artística became one of the most successful drama schools in Latin America.

Rachel Naylor speaks to the founder and director, Eugenio Cobo, and one of its first students, Alexis Ayala.

(Image: Eugenio Cobo. Credit: Televisa)

**MON 09:00 BBC News (w172ykq4yp9xclcd)**

The latest five minute news bulletin from BBC World Service.

**MON 09:06 The Climate Question (w3ct3kj5)**

[Repeat of broadcast at 02:32 today]

**MON 09:30 BBC News Summary (w172ykqzddxlqvs)**

The latest two minute news summary from BBC World Service.

**MON 09:32 CrowdScience (w3ct3j73)**

Are viruses the key to fighting infections?

We are running out of ammunition against certain infections, as bacteria increasingly evade the antibiotics we've relied on for nearly a century. Could bacteriophages – viruses that hunt and kill bacteria – be part of the solution?

In 2019, CrowdScience travelled to Georgia where bacteriophages, also known as phages, have been used for nearly a hundred years to treat illnesses ranging from a sore throat to cholera. Here we met the scientists who have kept rare phages safe for decades, and are constantly on the look-out for new ones. Phages are fussy eaters: a specific phage will happily chew on one bacteria but ignore another, so hunting down the right one for each infection is vital.

Since then, we've lived through a pandemic, the medical landscape has been transformed, and interest in bacteriophages as a treatment option is growing throughout the world. We turn to microbiologist Professor Martha Clokie for updates, including the answer to listener Garry's question: could phages help in the fight against Covid-19?

Contributors:

Prof Martha Clokie, University of Leicester

Dr Naomi Hoyle, Eliava Phage Therapy Center

Prof Nina Chanishvili, Eliava Institute

Dr Eka Jaiani, Eliava Institute

Presented by Marnie Chesterton

Produced by Cathy Edwards and Louisa Field for the BBC World Service

[Photo: Bacteriophages infecting bacteria, illustration. Credit: Getty Images]

**MON 10:00 BBC News (w172ykq4yp9xbhj)**  
The latest five minute news bulletin from BBC World Service.

**MON 10:06 The Cultural Frontline (w3ct37rn)**  
[Repeat of broadcast at 23:32 on Saturday]

**MON 10:30 BBC News Summary (w172yqzddxlvlx)**  
The latest two minute news summary from BBC World Service.

**MON 10:32 Dear Daughter (w3ct42g6)**  
[Repeat of broadcast at 05:32 on Saturday]

**MON 10:50 More or Less (w3ct3k4w)**  
[Repeat of broadcast at 05:50 on Saturday]

**MON 11:00 BBC News (w172ykq4yp9xm2n)**  
The latest five minute news bulletin from BBC World Service.

**MON 11:06 The Newsroom (w172yl7sc2nwyq1)**  
The world's Newsroom brings you global events as they happen

**MON 11:30 BBC News Summary (w172yqzddxlzcl1)**  
The latest two minute news summary from BBC World Service.

**MON 11:32 The Conversation (w3ct37m3)**  
[Repeat of broadcast at 04:32 today]

**MON 12:00 BBC News (w172ykq4yp9xqts)**  
The latest five minute news bulletin from BBC World Service.

**MON 12:06 Outlook (w3ct34nh)**  
Swimming with polar bears – a photographer's 'crazy' dream

The list of underwater predators that Amos Nachoum has photographed is long - it includes the Nile crocodile, the great white shark, orcas, anacondas and many other creatures that most of us would hope never to encounter. But for Amos that list was incomplete, his dream, his white whale, was to swim with a polar bear and photograph it. His first attempt went badly wrong, but it did not deter him and in 2015 he made his second attempt. He shares his account of that adventure with Outlook's Saskia Edwards.

The documentary about Amos' expedition to swim with the polar bear is Picture of His Life by Dani Menkin and Yonatan Nir.

This programme was first broadcast in 2021.

Get in touch: outlook@bbc.com

Presenter: Saskia Edwards  
Producer: Laura Thomas

(Photo: Swimming polar bears. Credit: Amos Nachoum)

**MON 12:50 Witness History (w3ct3byz)**  
[Repeat of broadcast at 08:50 today]

**MON 13:00 BBC News (w172ykq4yp9xvkkx)**  
The latest five minute news bulletin from BBC World Service.

**MON 13:06 The Newsroom (w172yl7sc2nx669)**  
The world's Newsroom brings you global events as they happen

**MON 13:30 BBC News Summary (w172yqzddxm6v9)**  
The latest two minute news summary from BBC World Service.

**MON 13:32 CrowdScience (w3ct3j73)**  
[Repeat of broadcast at 09:32 today]

**MON 14:00 BBC News (w172ykq4yp9xzb1)**  
The latest five minute news bulletin from BBC World Service.

**MON 14:06 Newshour (w172yfc21w30j8b)**  
Heatwave: Warnings of 'heat apocalypse' in France

Western France is facing a "heat apocalypse", experts have

warned, as extreme temperatures continue to hit much of Europe. The heat has already caused much misery, with wildfires in Spain, Portugal, Croatia, Greece and France over the weekend. More than 1,000 people have died in Spain and Portugal... and many thousands have been evacuated from their homes. Will it become the norm?

Also in the programme: Ukraine's President Zelensky suspends two senior officials over accusations of treason within their organisations; and Ghanaian officials have confirmed the country's first two cases of the highly infectious Marburg virus.

(Photo: Wildfire rages as Spain experiences its second heatwave of the year. Credit: Reuters/Isabel Infantes)

**MON 15:00 BBC News (w172ykq4yp9y325)**  
The latest five minute news bulletin from BBC World Service.

**MON 15:06 HARDtalk (w3ct32lm)**  
[Repeat of broadcast at 08:06 today]

**MON 15:30 BBC News Summary (w172yqzddxmgbk)**  
The latest two minute news summary from BBC World Service.

**MON 15:32 World Business Report (w172yk4p0rgwzhn)**  
Adapting to record heat in Europe

Businesses across Europe are putting special measures in place to cope with high temperatures. France is dealing with wildfires, and scientists have said much of the continent faces a drought. In the UK, farmers like Paul Tomkins are finding ways to keep animals cool.

Sri Lanka is said to be in the 'closing stages' of talks over a bailout deal from the International Monetary Fund.

Rachel Winter from investment firm Killick & Co has the latest market data, from Russia to Saudi Arabia.

We're also joined by journalist Justin Spike, who's in Budapest as business owners continue to protest over tax reforms. Some say it will increase their bills by more than threefold.

(Picture: Temperatures around 40 degrees celsius are being recorded in many parts of Europe. Credit: Getty Images).

**MON 16:00 BBC News (w172ykq4yp9y619)**  
The latest five minute news bulletin from BBC World Service.

**MON 16:06 BBC OS (w172ygm1mv5ncm5c)**  
Extreme temperatures

Wildfires are spreading in France, Spain, Croatia and Greece, and the UK is likely to have the hottest day on record this week. We explain how climate change is contributing to more frequent and severe heat waves.

We hear from people who are affected by the fires and extreme heat and discuss how people and countries around the world are equipped to handle heat waves.

Ghana has declared the first-ever outbreak of the Marburg virus, a highly infectious disease with the same family as Ebola. We explain what is known about the virus.

Thousands of angry people in Sri Lanka have been protesting for weeks amid the deepening economic crisis, but it's not the first time the country has been thrown into a huge political upheaval. We speak to two Sri Lankans about their country's brutal civil war that lasted 26 years.

(Photo: The fields' owner watches as a fire burns his wheat field between Tabara and Losacio, during the second heatwave of the year, in the province of Zamora, Spain, July 18, 2022. Credit: Isabel Infantes/Reuters)

**MON 17:00 BBC News (w172ykq4yp9ybkf)**  
The latest five minute news bulletin from BBC World Service.

**MON 17:06 BBC OS (w172ygm1mv5ncqhx)**  
Heatwaves: Your questions answered

Wildfires in France, Spain, Portugal and Greece have forced thousands of people to flee their homes, and the UK could have the hottest day on record this week. We explain how climate change is contributing to more frequent and severe heat waves and go through questions and messages from around the world.

A recent upsurge in fighting between rival gangs in Haiti has led to dozens of deaths and injuries. We get more details from our reporter monitoring the developments.

Thousands of angry people in Sri Lanka have been protesting for weeks amid the deepening economic crisis, but it's not the first time the country has been thrown into a huge political upheaval. We speak to two Sri Lankans about their country's brutal civil war that lasted 26 years.

Ghana has declared the first-ever outbreak of the Marburg virus, a highly infectious disease with the same family as Ebola. We explain what is known about the virus.

(Photo: A girl cools off in a fountain in Nice as a heat wave hits France, 18 July, 2022. Credit: Eric Gaillard/Reuters)

**MON 18:00 BBC News (w172ykq4yp9y9k)**  
The latest five minute news bulletin from BBC World Service.

**MON 18:06 Outlook (w3ct34nh)**  
[Repeat of broadcast at 12:06 today]

**MON 18:50 Witness History (w3ct3byz)**  
[Repeat of broadcast at 08:50 today]

**MON 19:00 BBC News (w172ykq4yp9y11p)**  
The latest five minute news bulletin from BBC World Service.

**MON 19:06 The Newsroom (w172yl7sc2nxxp2)**  
The world's Newsroom brings you global events as they happen

**MON 19:30 BBC News Summary (w172yqzddxmyb2)**  
The latest two minute news summary from BBC World Service.

**MON 19:32 Sport Today (w172ygfjdh3730)**  
2022/07/18 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 (w172ykq4yp9ypst)**  
The latest five minute news bulletin from BBC World Service.

**MON 20:06 The Climate Question (w3ct3kj5)**  
[Repeat of broadcast at 02:32 today]

**MON 20:30 BBC News Summary (w172yqzddxn226)**  
The latest two minute news summary from BBC World Service.

**MON 20:32 Discovery (w3ct42s1)**  
The mysterious particles of physics, part 3

The smaller the thing you look at, the bigger the microscope you need to use. That's why the circular Large Hadron Collider at CERN, where they discovered the Higgs boson is 27 kilometres long, and its detectors tens of metres across. But to dig deeper still into the secrets of the Universe, they're already talking about another machine 4 times bigger, to be built by the middle of the century. Roland Pease asks if it's worth it.

Image: CMS Beampipe removal LS2 2019 (Credit: Maximilien Brice/CERN)

**MON 21:00 BBC News (w172ykq4yp9ytjy)**  
The latest five minute news bulletin from BBC World Service.

**MON 21:06 Newshour (w172yfc21w31ch7)**  
Europe swelters in record-breaking heatwave

Dramatic images coming out of Southern Europe look like the end of days, with forest fires are raging in Spain, Portugal and France and much of the continent is in the grip of a ferocious heatwave.

Parts of the continent are facing temperatures above 40°C. Even in the UK, the mercury is predicted to head in that direction, breaking temperature records in the next 24 hours.

Also in the programme: Is the International Monetary Fund about to do a deal to bail out a bankrupt Sri Lanka?; and how the Russia-Ukraine conflict is affecting food security in Zimbabwe.

(Photo shows A fire burning a wheat field by a road in the province of Zamora, Spain. Credit: Isabel Infantes/Reuters)

**MON 22:00 BBC News (w172ykq4yp9yy92)**

The latest five minute news bulletin from BBC World Service.

**MON 22:06 HARDtalk (w3ct32lm)**

[Repeat of broadcast at 08:06 today]

**MON 22:30 BBC News Summary (w172yqkzddxn9kg)**

The latest two minute news summary from BBC World Service.

**MON 22:32 The Conversation (w3ct37m3)**

[Repeat of broadcast at 04:32 today]

**MON 23:00 BBC News (w172yqk4yp9z216)**

The latest five minute news bulletin from BBC World Service.

**MON 23:06 The Newsroom (w172yrwxhm0p22s)**

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

**MON 23:20 Sports News (w172ygh58y9m52h)**

BBC Sport brings you all the latest stories and results from around the world.

**MON 23:30 BBC News Summary (w172yqkzddxn9l)**

The latest two minute news summary from BBC World Service.

**MON 23:32 World Business Report (w172ykh5gh2m7wz)**

Feeling the heat: are global economies coping?

In Europe, much of the continent is in the grip of a heatwave; forest fires are raging in Spain, Portugal and France. China has also been struggling with sweltering summer heat. Our correspondents Jessica Parker and Guy Hedgecoe update us on the situation in south west France and Spain. Leah Stokes, an associate professor of Political Science at the University of California Santa Barbara, explains the impact of heat on the global economy.

White House economic adviser Jared Bernstein, has said he expects to see average gasoline prices falling below \$4 a gallon in some places around the country in the coming weeks. Susan Schmidt, head of US equity at Exchange Capital Resources in Chicago, tells us more.

Sri Lanka's acting President has said the country's negotiations with the IMF over an emergency bailout are nearing conclusion. There has been no comment from the IMF, but there have been growing calls from Sri Lankan politicians for the organisation to heed the scale of the crisis. Felix Fernando, managing director of Omegaline Group and employs 14,000 people in Sri Lanka joins us.

(Picture: A firefighter takes position at a forest fire near Louchats, some 35kms from Landiras in Gironde, southwestern France on July 18, 2022. Picture Credit: Getty Images).

**TUESDAY 19 JULY 2022**

**TUE 00:00 BBC News (w172yqk4yp9z5sb)**

The latest five minute news bulletin from BBC World Service.

**TUE 00:06 The History Hour (w3ct39lf)**

[Repeat of broadcast at 20:06 on Sunday]

**TUE 01:00 BBC News (w172yqk4yp9z9jg)**

The latest five minute news bulletin from BBC World Service.

**TUE 01:06 Business Matters (w172ydpgrz09xc)**

Too hot to work?

Global business news, with live guests and contributions from Asia and the USA.

**TUE 02:00 BBC News (w172yqk4yp9zf8l)**

The latest five minute news bulletin from BBC World Service.

**TUE 02:06 The Newsroom (w172y17sc2nyrwz)**

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

**TUE 02:30 BBC News Summary (w172yqkzddxnsjz)**

The latest two minute news summary from BBC World Service.

**TUE 02:32 The Documentary (w3ct42rd)**

Nursing matters

In Zambia, at the Lusaka College of Nursing and Midwifery, college head Dr Priscar Sakala-Mukonka is training the next generation of nurses in their new Critical Care department. Once qualified, her students will join a health care system that is critically short-supplied and short-staffed - not due to a lack of new nurses, but due to a shortage of paid positions. Despite decades of investment, there is still only 13 nurses per 10,000 people in Zambia, compared to 175 in Switzerland. Many qualified nurses are officially unemployed, and those with jobs do the work of many.

Dr Priscar Sakala-Mukonka trained as a nurse herself in the 1980s in Zambia. Considering her work a vocation as much as a profession, she watched as many of her fellow graduates left the country, feeling demoralized and undervalued, to pursue nursing careers overseas. Since then, admissions to nursing schools have mushroomed, and new schools have opened to meet demand - but without further investment, a perpetual cycle of loss of talent and recourses seems possible.

Now, as European and North American countries once again ramp up their efforts to recruit Zambian nurses to fill Covid-19 related shortages, we ask what training and approach will keep this new generation of trained nurses in the country, and what motivates nurses to keep going, despite the unpredictable pay and difficult working conditions.

(Photo: Nurse training at St. Luke's Mission Hospital in Mpanshya, Zambia. Credit: Gareth Bentley/SolidarMed)

**TUE 03:00 BBC News (w172yqk4yp9zk0q)**

The latest five minute news bulletin from BBC World Service.

**TUE 03:06 Outlook (w3ct34nh)**

[Repeat of broadcast at 12:06 on Monday]

**TUE 03:50 Witness History (w3ct3byz)**

[Repeat of broadcast at 08:50 on Monday]

**TUE 04:00 BBC News (w172yqk4yp9znrw)**

The latest five minute news bulletin from BBC World Service.

**TUE 04:06 The Newsroom (w172y17sc2nz0d7)**

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

**TUE 04:30 BBC News Summary (w172yqkzddxp117)**

The latest two minute news summary from BBC World Service.

**TUE 04:32 In the Studio (w3ct31j5)**

Joanne Harris - Writing Chocolat

Chocolat was Joanne Harris's third novel, famously made into a film starring Juliette Binoche and Johnny Depp, bringing the writer worldwide recognition. Set in Southern France, it's a darkly magical modern folk-tale, in which food, namely chocolate confections, plays a central part. Readers delighted in the story of Vianne Rocher and her six-year-old daughter, Anouk, who set up a chocolate boutique during Lent, right opposite the church, much to the annoyance of the village priest, Francis Reynaud. It's an act that gently changes the lives of many of the villagers.

Having recorded the audio book in recent years, Joanne has revisited the novel, and the writing process behind it. In conversation with Dr Vic James, she reveals how she drew inspiration from her French heritage, why the themes of indulgence and guilt, motherhood and patriarchy are so present, and crucially, about the importance of chocolate to the story. They're also joined by Laura Grandi who translated the novel into Italian, and has continued to work with Joanne ever since.

Presenter: Dr Vic James

Reader: Ruth Everett.

Produced by Rebecca Armstrong for the BBC World Service

**TUE 05:00 BBC News (w172yqk4yp9zshz)**

The latest five minute news bulletin from BBC World Service.

**TUE 05:06 Newsday (w172yf8lqp90f5d)**

Europe heatwave: Extreme temperatures grip region

Firefighters in south-western France are battling to control wildfires spreading along the Atlantic coast, as much of Western Europe continues to struggle through an intense heatwave.

A prosecutor has urged jurors to sentence to death Florida school shooter Nikolas Cruz.

And the Russian President, Vladimir Putin, and President

Recep Tayyip Erdogan of Turkey head to Tehran for a summit with their Iranian counterpart, Ebrahim Raisi.

**TUE 06:00 BBC News (w172yqk4yp9zx83)**

The latest five minute news bulletin from BBC World Service.

**TUE 06:06 Newsday (w172yf8lqp90jxj)**

Heatwave triggers England's first-ever extreme heat warning

Britain is sweltering and firefighters are battling blazes across southern Europe as a heatwave compounds fears about climate change.

Russian President Vladimir Putin and his Turkish counterpart Recep Tayyip Erdogan are in Tehran meeting with their Iranian hosts, including supreme leader Ali Khamenei and the country's president, Ebrahim Raisi.

And Sri Lanka's textile industry under threat amid economic crisis.

**TUE 07:00 BBC News (w172yqk4ypb0107)**

The latest five minute news bulletin from BBC World Service.

**TUE 07:06 Newsday (w172yf8lqp90nm)**

Sri Lanka: Three candidates nominated for president

Sri Lankan MPs are expected to vote for a new president by secret ballot. The acting President, Ranil Wickremesinghe, is thought to be the front runner followed by veteran politician, Dullas Alahapperuma. A leftist party leader, Anura Dissanayake, is the third candidate.

Much of Western Europe is continuing to swelter under an intense heatwave. And Kenyan writer Idza Luhumyo on winning the 2022 Caine Prize for African writing.

**TUE 08:00 BBC News (w172yqk4ypb04rc)**

The latest five minute news bulletin from BBC World Service.

**TUE 08:06 People Fixing The World (w3ct31j2m)**

Saving kids with cancer

If your child develops cancer and you live in a wealthy country there's a really good chance they will survive - more than 80%. If you live elsewhere, the chances are much lower - less than 30%.

Over a decade ago, Dr Mae Dolendo set up a centre in the Philippines to treat children with cancer. Since then she's saved the lives of hundreds of children who've received treatment for free. Now others are replicating her trailblazing hospital.

We head to the Philippines to meet Dr Dolendo and see how she's linking up with St Jude's paediatric cancer team in the US - one of the best of its kind in the world. Doctors from the team provide expertise remotely, enabling Dr Dolendo to save lives for a fraction of what it would normally cost.

Presenter: Myra Anubi

Reporter: Micaela Papa

Producer: Jo Mathys

Production Co-ordinator: Ibtisam Zein

Sound mix: Hal Haines

Executive producer: Tom Colls

Editor: Penny Murphy

Image: Dr Mae Dolendo

**TUE 08:30 BBC News Summary (w172yqkzddxpj0r)**

The latest two minute news summary from BBC World Service.

**TUE 08:32 Business Daily (w3ct316g)**

How virtual reality is changing healthcare

By 2024, virtual reality is expected to reach a value of \$1.2bn in the healthcare sector alone - and it's already seeing adoption in major public healthcare bodies like the UK's National Health Service. But many private businesses are the ones leading the change and working closely with hospitals, universities and pharmaceutical giants.

We speak three businesses in three different parts of the world to find out what they're doing to change healthcare. We hear from Matthew Wordley, CEO of the Wales-based company Rescue Innovation, Vini Gusmao, who leads the Brazilian company Medroom, and also speak to Kensuke Joji, CEO of Jolly Good VR, based in Japan.

Producer / presenter: Rory Claydon

Image: A woman wearing a VR headset and face mask; Credit:



BBC

**TUE 08:50 Witness History (w3ct3c3h)**

Madhur Jaffrey's 'Indian Cookery'

A ground-breaking Indian cookery programme broadcast on the BBC, launched 40 years ago. It was presented by actor turned food writer, Madhur Jaffrey. She's been speaking to Farhana Haider about the programme.

(Photo: Madhur Jaffrey in front of a table of food. Credit: BBC)

**TUE 09:00 BBC News (w172ykq4ypb08hh)**

The latest five minute news bulletin from BBC World Service.

**TUE 09:06 The Documentary (w3ct42rd)**

[Repeat of broadcast at 02:32 today]

**TUE 09:30 BBC News Summary (w172ykqzddxpmrw)**

The latest two minute news summary from BBC World Service.

**TUE 09:32 Discovery (w3ct42s1)**

[Repeat of broadcast at 20:32 on Monday]

**TUE 10:00 BBC News (w172ykq4ypb0d7m)**

The latest five minute news bulletin from BBC World Service.

**TUE 10:06 The Arts Hour (w3ct390c)**

[Repeat of broadcast at 20:06 on Saturday]

**TUE 11:00 BBC News (w172ykq4ypb0hzz)**

The latest five minute news bulletin from BBC World Service.

**TUE 11:06 The Newsroom (w172yl7sc2nzm4)**

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

**TUE 11:30 BBC News Summary (w172ykqzddxpw84)**

The latest two minute news summary from BBC World Service.

**TUE 11:32 In the Studio (w3ct3jj5)**

[Repeat of broadcast at 04:32 today]

**TUE 12:00 BBC News (w172ykq4ypb0mqw)**

The latest five minute news bulletin from BBC World Service.

**TUE 12:06 Outlook (w3ct3531)**

A 'dreamer', a Nasa contest and a robot called Stinky

In 2004, Oscar Vazquez was part of a robotics team made up of undocumented Mexican-American high school students from a poor area of Phoenix, Arizona. They entered their \$800 invention – an underwater robot called Stinky – into a Nasa competition taking on high-budget creations by prestigious universities including MIT. Oscar's team attracted attention, but far from leading to opportunities in the world of tech and science for Oscar, instead raised questions about his immigration status and position in US society. The proposed DREAM Act would raise his hopes of citizenship and of achieving another ambition - serving in the US military.

This story is the subject of a documentary called Underwater Dreams, directed by Mary Mazzio and produced by 50 Eggs Films.

Get in touch: outlook@bbc.com

Presenter: Mobeen Azhar  
Producer: Katy Takatsuki

(Photo: Oscar Vazquez on location during the filming of Underwater Dreams. Credit: Richard Schultz Courtesy of 50 Eggs Film)

**TUE 12:50 Witness History (w3ct3c3h)**

[Repeat of broadcast at 08:50 today]

**TUE 13:00 BBC News (w172ykq4ypb0rh0)**

The latest five minute news bulletin from BBC World Service.

**TUE 13:06 The Newsroom (w172yl7sc2p033d)**

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

**TUE 13:30 BBC News Summary (w172ykqzddxq3rd)**

The latest two minute news summary from BBC World Service.

**TUE 13:32 Discovery (w3ct42s1)**

[Repeat of broadcast at 20:32 on Monday]

**TUE 14:00 BBC News (w172ykq4ypb0w74)**

The latest five minute news bulletin from BBC World Service.

**TUE 14:06 Newshour (w172yfc21w33f5f)**

Britain records highest-ever temperature

A European climate minister lays out her plans to limit the damage in the years ahead as extreme heat warnings are issued in France while northern Spain saw temperatures of 43C (109F) on Monday.

Also on the programme: we head to Somalia where the worst drought in four decades is causing children to suffer physically and mentally; and the award-winning Iranian film director, Jafar Panahi, is sent to prison following his arrest last week, for dissent.

(Photo: Swimmers in the Sky Pool, a transparent swimming pool suspended 35 meters above ground between two apartment buildings, during hot weather in Nine Elms, central London Credit: Victoria Jones/PA Wire)

**TUE 15:00 BBC News (w172ykq4ypb0zz8)**

The latest five minute news bulletin from BBC World Service.

**TUE 15:06 People Fixing The World (w3ct3j2m)**

[Repeat of broadcast at 08:06 today]

**TUE 15:30 BBC News Summary (w172ykqzddxqc7n)**

The latest two minute news summary from BBC World Service.

**TUE 15:32 World Business Report (w172yk7ysnwr33x)**

Europe heatwave: What is the impact on industries?

As a searing heatwave continues to grip Europe, pressure on health services and transport infrastructure is increasing. The UK has reached a record high temperature of 40.2C (104F). Wildfires are burning in Spain and south-west France, near the famous wine-producing region of Bordeaux. We find out how extreme weather events are affecting the industry and ask what vineyards can do to cope.

Elsewhere, Russian President Vladimir Putin meets his Iranian and Turkish counterparts in Tehran.

We round up the latest markets and business stories, including news that Apple is to slow down hiring workers.

(Image: Orange sky with bright sun and thermometer symbolizing climate change and global warming. Credit: Getty Images)

**TUE 16:00 BBC News (w172ykq4ypb13qd)**

The latest five minute news bulletin from BBC World Service.

**TUE 16:06 BBC OS (w172yg1mv5ngj2g)**

Wildfires in Europe

As wildfires rage across southern Europe, two people in Spain describe what they have witnessed in the province of Zamora.

Young people have played a key role in unseating Sri Lanka's president through peaceful protests. Two students who have been involved in the protests share their experiences and hopes for the future.

Our BBC Africa reporter has been speaking to people in Somalia about the worst drought for decades in the Horn of Africa.

Another fight between rival gangs in a prison in Ecuador has left at least 13 inmates dead and two injured. Our Latin America editor has more details.

(Photo: A man emerges from flames with burning clothes, as a wildfire burns in Tabara, Zamora Province, Spain, July 18, 2022 in this screen grab taken from a video. Credit: Guillermo Martinez/Reuters)

**TUE 17:00 BBC News (w172ykq4ypb17gj)**

The latest five minute news bulletin from BBC World Service.

**TUE 17:06 BBC OS (w172yg1mv5ngm1d)**

Heatwave in Europe: Record-breaking temperatures

As a heatwave continues to sweep across Europe, Britain has recorded its highest ever temperature. We hear how Europeans are coping with the heat and speak to our climate expert about the impact of extreme weather in other parts of the world.

BBC's Russian Service has investigated how much Russia has spent to shield President Putin from Covid-19. Our colleague explains some of the measures that include quarantine for Kremlin staff members, pilots and doctors who come into contact with the president.

Young people have played a key role in unseating Sri Lanka's president through peaceful protests. Two students who have been involved in the protests share their experiences and hopes for the future.

Our reporter has been speaking to people in Somalia about the worst drought for decades in the Horn of Africa. She tells us what she has witnessed.

(Photo: A man cools off in a water fountain during a heatwave, at Trafalgar Square in London, Britain, July 19, 2022. Credit: Henry Nicholls/Reuters)

**TUE 18:00 BBC News (w172ykq4ypb1c6n)**

The latest five minute news bulletin from BBC World Service.

**TUE 18:06 Outlook (w3ct3531)**

[Repeat of broadcast at 12:06 today]

**TUE 18:50 Witness History (w3ct3c3h)**

[Repeat of broadcast at 08:50 today]

**TUE 19:00 BBC News (w172ykq4ypb1gys)**

The latest five minute news bulletin from BBC World Service.

**TUE 19:06 The Newsroom (w172yl7sc2p0t05)**

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

**TUE 19:30 BBC News Summary (w172ykqzddxqv75)**

The latest two minute news summary from BBC World Service.

**TUE 19:32 Sport Today (w172ygfjdh39zxp)**

2022/07/19 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 (w172ykq4ypb1lpx)**

The latest five minute news bulletin from BBC World Service.

**TUE 20:06 The Documentary (w3ct42rd)**

[Repeat of broadcast at 02:32 today]

**TUE 20:30 BBC News Summary (w172ykqzddxqv9)**

The latest two minute news summary from BBC World Service.

**TUE 20:32 Digital Planet (w3ct31ym)**

Self-driving cars on the horizon?

A recent amendment to a regulation by the United Nations Economic Commission for Europe (UNECE) will extend automated driving technology to 130 km/h. The regulation, which will come into effect in January 2023, will set the standard for car manufacturers to develop so-called "level 3" autonomous vehicle. Gareth speaks to Francois Guichard, who is leading UN regulations on vehicle automation, about what "level 3" really means, and when we will see these types of cars on the road. Also, Prof Jack Stilgoe tells us about the potential issues and implications of self-driving technology.

**Robbed of mobile innovation**

In many cities globally, urban robberies have become a familiar occurrence, so much so that many people have started to develop their own strategies to mitigate losing their mobile phone. In São Paulo, some leave their phones at home or take a second throw-away phone that they can give away instead, but there are more technological solutions as well. Expert contributor Angelica Mari tells us more, and shares why this is affecting the adoption of mobile phone innovation, in particular fintech.

Crypto adoption during Argentina's inflation crisis  
In Argentina, rising inflation has become a growing issue.

Economy minister Martin Guzman resigned earlier this month, and annual inflation is set to hit above 70%. In light of the peso's instability, some Argentines are deciding to invest in cryptocurrencies instead. Is this a safer bet? Could crypto adoption affect Argentina's economy? Our reporter Lucía Cholokian has been finding out more.

The programme is presented by Gareth Mitchell with expert commentary from Angelica Mari.

Studio Manager: Duncan Hannant  
Producer: Florian Bohr

(Image: Auto driving system and technology. Credit: show999 / iStock / Getty Images Plus)

#### TUE 21:00 BBC News (w172ykq4ypb1qg1)

The latest five minute news bulletin from BBC World Service.

#### TUE 21:06 Newshour (w172yfc21w348db)

Heatwave sparks fires across Europe

Britain has recorded its highest ever temperature as a heatwave passes through western Europe.

We'll hear from southwest France where wildfires continue to burn.

Also in the programme: Could a meeting between the leaders of Iran, Russia and Turkey result in the unblocking of Ukrainian ports and the resumption of grain exports; and the impact of the political and economic crisis on workers in the tea industry in Sri Lanka.

(Photo shows firefighters tackling a grass fire during the heatwave in Mow Cop, Staffordshire, England. Credit: Carl Recin/Reuters)

#### TUE 22:00 BBC News (w172ykq4ypb1v65)

The latest five minute news bulletin from BBC World Service.

#### TUE 22:06 People Fixing The World (w3ct3j2m)

[Repeat of broadcast at 08:06 today]

#### TUE 22:30 BBC News Summary (w172ykqzdxr6gk)

The latest two minute news summary from BBC World Service.

#### TUE 22:32 In the Studio (w3ct3jj5)

[Repeat of broadcast at 04:32 today]

#### TUE 23:00 BBC News (w172ykq4ypb1y9)

The latest five minute news bulletin from BBC World Service.

#### TUE 23:06 The Newsroom (w172yrwxhm0ryzw)

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

#### TUE 23:20 Sports News (w172ygh58y9q1z1)

BBC Sport brings you all the latest stories and results from around the world.

#### TUE 23:30 BBC News Summary (w172ykqzdxr6bp)

The latest two minute news summary from BBC World Service.

#### TUE 23:32 World Business Report (w172yk8s7dhgcj7)

Can productivity handle the heat?

Extreme heat is hurting the economy and workplace productivity. Rahul Tandon is joined by Rachel Kyte, dean of The Fletcher School at Tufts University in Boston, Massachusetts and she was an advisor to the UK Cop26 delegation.

In Pakistan, Prime Minister Shabbaz Sharif came to power in April. But the man who used to run the country, Imran Khan, has launched a national protest calling for fresh elections which could political instability lead to economic instability. Analyst and assistant professor of economics at Habib University, Aqdas Afzal, explains.

A judge in the US state of Delaware has ruled that the dispute between the tech billionaire Elon Musk and the social media company Twitter, should go to trial in October. Molly Roberts, editorial writer at the Washington Post, tells us more.

(Picture: A delivery man works in Barcelona on July 19, 2022. Spain, which has already seen its hottest May since the beginning of this century, remained on July 19 in the grip of an exceptional heatwave. Picture Credit: Getty Images).

### WEDNESDAY 20 JULY 2022

#### WED 00:00 BBC News (w172ykq4ypb22pf)

The latest five minute news bulletin from BBC World Service.

#### WED 00:06 The Arts Hour (w3ct390c)

[Repeat of broadcast at 20:06 on Saturday]

#### WED 01:00 BBC News (w172ykq4ypb26fk)

The latest five minute news bulletin from BBC World Service.

#### WED 01:06 Business Matters (w172ydpgrz36tg)

Global heatwave: The economies taking a hit

Hundreds of people have died across Europe. Thousands have had to flee wildfires in Spain, France and Greece. In the US President Biden will reportedly declare a climate emergency as soon as this week. Rachel Kyte, Dean of The Fletcher School at Tufts University in Boston, Massachusetts and was an adviser to the UK Cop26 delegation, shares her thoughts.

In Sri Lanka, parliament will elect a new president to try and solve the country's economic problems. There are three candidates: the current Prime Minister Ranil Wickremesinghe, the opposition candidate Dullas Alahapperuma and the leftist candidate Anura Dissanayake. Marlon Ariyasinghe, editor at Himal South Asian a magazine based in Sri Lanka, explains the economic challenges that one of the candidates must tackle.

Rahul Tandon is joined by Mehmal Sarfraz, Co-founder of The Current PK and Mitchell Hartman, Senior Reporter at Marketplace.

(Picture: A man uses a fan while shopping in a greengrocery in Seville on 19 July, 2022, Spain. Credit: Getty Images)

#### WED 02:00 BBC News (w172ykq4ypb2b5p)

The latest five minute news bulletin from BBC World Service.

#### WED 02:06 The Newsroom (w172y17sc2p1nt2)

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

#### WED 02:30 BBC News Summary (w172ykqzdxrpg2)

The latest two minute news summary from BBC World Service.

#### WED 02:32 The Compass (w3ct42lc)

The Reclaimers

The reclaimers: Return to Zambia

Returning to Zambia for the first time since he was three years old, Kema Sikazwe continues his journey exploring the impact of colonial legacies through museum collections.

Since 1972, Zambians have campaigned to reclaim the 'Broken Hill Skull' from Britain. Kema learns what has led to the current stalemate, as the repatriation movement gathers pace.

Kema also meets Zambian creatives who are fabricating their own interpretations of history with 'digital repatriation' initiatives, creating new artefacts in response to stories inspired by 3D scans and photographs.

(Photo: Kema Sikazwe holds up a matchbox designed using motifs inspired by Zambian objects taken from the country. Credit: Radio Film)

#### WED 03:00 BBC News (w172ykq4ypb2fxt)

The latest five minute news bulletin from BBC World Service.

#### WED 03:06 Outlook (w3ct3531)

[Repeat of broadcast at 12:06 on Tuesday]

#### WED 03:50 Witness History (w3ct3c3h)

[Repeat of broadcast at 08:50 on Tuesday]

#### WED 04:00 BBC News (w172ykq4ypb2kny)

The latest five minute news bulletin from BBC World Service.

#### WED 04:06 The Newsroom (w172y17sc2p1x9b)

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

#### WED 04:30 BBC News Summary (w172ykqzdxrxxyb)

The latest two minute news summary from BBC World Service.

#### WED 04:32 On the Podium (w3ct4214)

Neeraj Chopra: Inspiring India

"This is my dream." There had never been an Olympic track and field champion from India. But Neeraj Chopra changed everything for his country. His amazing journey from a rural village climaxed with a gold medal in the men's javelin at the Tokyo Games. Neeraj is now dedicated to inspiring the next generation of Indian athletes.

#### WED 05:00 BBC News (w172ykq4ypb2pf2)

The latest five minute news bulletin from BBC World Service.

#### WED 05:06 Newsday (w172yf8lqp93b2h)

Sri Lanka's Parliament to vote for new president

Sri Lankan parliamentarians are voting to elect a new president to replace Gotabaya Rajapaksa, who fled the country after months of protests sparked by a crippling economic crisis.

The UN's climate chief has warned that heatwaves such as the one currently gripping western Europe are becoming more frequent.

And US President Joe Biden considers declaring a climate emergency in the United States.

#### WED 06:00 BBC News (w172ykq4ypb2156)

The latest five minute news bulletin from BBC World Service.

#### WED 06:06 Newsday (w172yf8lqp93ftm)

Sri Lanka: Parliament votes for new president amid crisis

Parliamentarians in Sri Lanka are voting to elect a new president. The winner will replace Gotabaya Rajapaksa, who fled the country after months of protests over a crippling economic crisis.

Cooler weather has returned to Britain and France after two days that saw temperature records tumble in many places but wildfires continue to burn in many other places across Europe.

And the European Commission unveils emergency plans to tackle the energy crisis amid soaring prices and threats to supplies.

#### WED 07:00 BBC News (w172ykq4ypb2xxb)

The latest five minute news bulletin from BBC World Service.

#### WED 07:06 Newsday (w172yf8lqp93kkr)

Sri Lanka anticipates new president

Parliamentarians in Sri Lanka are voting to elect a new president. Three candidates are in the running. The acting President Ranil Wickremesinghe is thought to be the frontrunner, but he faces a tough challenge from Dullas Alahapperuma, who is being supported by the opposition parties.

Cooler weather has returned to Britain and France after two days that saw temperature records tumble. Weather warnings are now in place in Germany as the heatwave sweeps north and eastwards.

And the European Commission is expected to outline proposals for EU countries to reduce their gas consumption by up to fifteen per cent.

#### WED 08:00 BBC News (w172ykq4ypb31ng)

The latest five minute news bulletin from BBC World Service.

#### WED 08:06 HARDtalk (w3ct1n70)

Isabel Allende: What does South America's future hold?

The decisive victory by Gabriel Boric, the left-wing candidate, in Chile's recent elections has reset the button on the country's political path. He defeated the right-wing presidential contender in a result which observers believe may be replicated when other Latin American countries go to the polls this year. Zeinab Badawi speaks to Isabel Allende, the acclaimed Chilean writer whose uncle was Salvador Allende, the left-wing Chilean leader removed in a coup in 1973. Isabel Allende has lived in four Latin American countries and knows the continent well. How does she view current trends in South America?

#### WED 08:30 BBC News Summary (w172ykqzdxsdxv)

The latest two minute news summary from BBC World Service.

#### WED 08:32 Business Daily (w3ct31bz)

Women, sport and business: Media deals

In this episode of Business Daily, the latest in our series on women, sport and business, we're looking at the media.

With women's sport accounting for only around 5% of the total sports coverage globally, we'll be finding out how some clubs and organisations are moving away from traditional media, and looking at digital and streaming to reach fans instead.

Reporter Sam Fenwick visits Burnley FC Women in the north of England. Last year they signed a ground breaking deal with TikTok to show every home game. And we hear from TikTok themselves – Rich Waterworth, General Manager for the UK and Europe explains what's in it for them.

Sue Anstiss is the author of Game On: The unstoppable rise of women's sport. She tells us fans of all sports are consuming content differently now, and if women's sport gets it right, there could be a big opportunity in the digital market.

And Haley Rosen, founder and CEO of digital media company Just Women's Sports explains her frustration at trying to set up a business in a growing marketplace which is lacking in investment and infrastructure.

Presenter: Sam Fenwick  
Producer: Helen Thomas  
Image: (Burnley FC Women in December 2021. Credit: George Wood/Getty Images)

**WED 08:50 Witness History (w3ct3c5r)**  
Who shot JR?

Dallas was already a hit American TV series in 1980. But when its leading man, JR, was shot, the reaction worldwide was extraordinary. Claire Bowes spoke to Larry Hagman, who played JR, in 2010.

(Picture: Larry Hagman leaning out of a car window. Credit: Getty Images)

**WED 09:00 BBC News (w172ykq4ypb35dl)**  
The latest five minute news bulletin from BBC World Service.

**WED 09:06 The Compass (w3ct42lc)**  
[Repeat of broadcast at 02:32 today]

**WED 09:30 BBC News Summary (w172ykqzddxsjnz)**  
The latest two minute news summary from BBC World Service.

**WED 09:32 Digital Planet (w3ct31ym)**  
[Repeat of broadcast at 20:32 on Tuesday]

**WED 10:00 BBC News (w172ykq4ypb394q)**  
The latest five minute news bulletin from BBC World Service.

**WED 10:06 The Documentary (w3ct43br)**  
[Repeat of broadcast at 12:06 on Saturday]

**WED 11:00 BBC News (w172ykq4ypb3dvw)**  
The latest five minute news bulletin from BBC World Service.

**WED 11:06 The Newsroom (w172yl7sc2p2rj7)**  
The world's Newsroom brings you global events as they happen

**WED 11:30 BBC News Summary (w172ykqzddxs57)**  
The latest two minute news summary from BBC World Service.

**WED 11:32 On the Podium (w3ct42la)**  
[Repeat of broadcast at 04:32 today]

**WED 12:00 BBC News (w172ykq4ypb3jnz)**  
The latest five minute news bulletin from BBC World Service.

**WED 12:06 Outlook (w3ct3y8m)**  
Bringing my 10,000 kites from Kabul to England

Master kite-maker Sanjar Qiam was born in Afghanistan in 1981 and for the next three decades lived through some of the country's most turbulent times. But through it all, he continued to find a way to make and fly his beloved kites, even when they were banned under the Taliban. When he moved to Brighton on the south coast of England in 2011, Sanjar brought his wife and baby son...and 10,000 of his kites! Sanjar now hosts kite-making workshops across the UK and helped create Fly With

Me - a kite festival taking place across Europe next month to celebrate Afghan culture and mark the first anniversary of the Taliban takeover.

Get in touch: outlook@bbc.com

Presenter: Mobeen Azhar  
Producer: June Christie

(Photo: Sanjar Qiam with one of his kites. Credit: Good Chance Theatre)

**WED 12:50 Witness History (w3ct3c5r)**  
[Repeat of broadcast at 08:50 today]

**WED 13:00 BBC News (w172ykq4ypb3nd3)**  
The latest five minute news bulletin from BBC World Service.

**WED 13:06 The Newsroom (w172yl7sc2p300h)**  
The world's Newsroom brings you global events as they happen

**WED 13:30 BBC News Summary (w172ykqzddxt0nh)**  
The latest two minute news summary from BBC World Service.

**WED 13:32 Digital Planet (w3ct31ym)**  
[Repeat of broadcast at 20:32 on Tuesday]

**WED 14:00 BBC News (w172ykq4ypb3s47)**  
The latest five minute news bulletin from BBC World Service.

**WED 14:06 Newshour (w172yfc21w36b2j)**  
Ranil Wickremesinghe confirmed as president of Sri Lanka

The veteran Sri Lankan politician Ranil Wickremesinghe has called for unity in the face of challenges, after being elected as the new president in a parliamentary vote. Mr Wickremesinghe predicted his election would mean an end to divisions in Sri Lanka, but many protesters aren't happy seeing him as a continuation of the government led by his predecessor, Gotabaya Rajapaksa.

Also in the programme: the Italian prime minister Mario Draghi has promised to stay in office if the partners in his troubled coalition give him their full backing; and an architect tells us how its possible to design buildings that mitigate rising global temperatures.

(Photo: Ranil Wickremesinghe who has been elected as the Eighth Executive President under the Constitution speaks to media as he leaves a Buddhist temple, amid the country's economic crisis, in Colombo, Sri Lanka on 20 July 2022. Credit: Reuters/ Dinuka Liyanawatte)

**WED 15:00 BBC News (w172ykq4ypb3wvc)**  
The latest five minute news bulletin from BBC World Service.

**WED 15:06 HARDtalk (w3ct1n70)**  
[Repeat of broadcast at 08:06 today]

**WED 15:30 BBC News Summary (w172ykqzddxt84r)**  
The latest two minute news summary from BBC World Service.

**WED 15:32 World Business Report (w172yk9lp436lwl)**  
A new dawn for Sri Lanka?

Crisis-hit Sri Lanka has elected its next president: the former prime minister, Ranil Wickremesinghe. He's already proving unpopular with some, leading to fresh protests in the capital, Colombo. Some business owners, however, are optimistic that the new leader can begin to guide the country out of its economic hardship. Shiromal Coomay runs a tourism company. She is eager to see the holiday industry restart in Sri Lanka.

Meanwhile, the IMF has warned other countries could face a similar economic fate if debt can't be brought under control.

We speak to the head of Ukraine's sea port authority, Dmitro Barinov, about efforts to end the Russian blockade of grain shipments. Sam Fenwick is also joined by energy markets expert Dr Aura Sabadus to discuss the ongoing concerns over gas supplies in Europe.

(Picture: A supporter of Ranil Wickremesinghe in Colombo. Credit: Getty Images).

**WED 16:00 BBC News (w172ykq4ypb40mh)**  
The latest five minute news bulletin from BBC World Service.

**WED 16:06 BBC OS (w172yg1mv5nkdzk)**  
Sri Lanka: Wickremesinghe elected president

Despite his unpopularity, Sri Lankan MPs have elected prime minister Ranil Wickremesinghe as the country's new president. We hear from Sri Lankans for their reaction.

Europe is experiencing extreme temperatures but in many parts of the world people are used to living in extremely hot climates. We hear what life is like for three people from Qatar, Pakistan and France. We also get the latest on the wildfires in southern Europe.

And the Women's European Football Championships tournament has reached the quarter-final stage. We speak to two female footballers about the impact of big tournaments like the Euros on the popularity of the women's game.

(Photo: Ranil Wickremesinghe. Credit: Reuters/ Dinuka Liyanawatte)

**WED 17:00 BBC News (w172ykq4ypb44cm)**  
The latest five minute news bulletin from BBC World Service.

**WED 17:06 BBC OS (w172yg1mv5nkJqp)**  
Living in extreme heat

Europe is experiencing extreme temperatures but in many parts of the world people are used to living in extremely hot climates. We hear what life is like for three people from Qatar, Pakistan and France. We also get the latest on the wildfires in southern Europe.

Despite his unpopularity, Sri Lankan MPs have elected prime minister Ranil Wickremesinghe as the country's new president. We hear from Sri Lankans for their reaction.

And we speak to Nigerian university students and teachers about the impact of a six-month shutdown of public universities across the country due to pay disagreements.

(Photo: People outside the Louvre Museum's Pyramide in Paris on the 19th July. Credit: EPA/ Christophe Petit Tesson)

**WED 18:00 BBC News (w172ykq4ypb483r)**  
The latest five minute news bulletin from BBC World Service.

**WED 18:06 Outlook (w3ct3y8m)**  
[Repeat of broadcast at 12:06 today]

**WED 18:50 Witness History (w3ct3c5r)**  
[Repeat of broadcast at 08:50 today]

**WED 19:00 BBC News (w172ykq4ypb4cvw)**  
The latest five minute news bulletin from BBC World Service.

**WED 19:06 The Newsroom (w172yl7sc2p3qh8)**  
The world's Newsroom brings you global events as they happen

**WED 19:30 BBC News Summary (w172ykqzddxt84r)**  
The latest two minute news summary from BBC World Service.

**WED 19:32 Sport Today (w172ygfjdh3dwt5)**  
2022/07/20 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 (w172ykq4ypb4hm0)**  
The latest five minute news bulletin from BBC World Service.

**WED 20:06 The Compass (w3ct42lc)**  
[Repeat of broadcast at 02:32 today]

**WED 20:30 BBC News Summary (w172ykqzddxtvwd)**  
The latest two minute news summary from BBC World Service.

**WED 20:32 Health Check (w3ct32wn)**  
Marburg virus cases confirmed

As Marburg virus cases are confirmed in Ghana, Dr Graham Easton discusses the importance of a swift response.

BBC Africa correspondent Charles Mgbolu reports from Nigeria on the relationship between monkeypox emergence and

smallpox eradication.

Plus Claudia hears good news from Dr Jaekeun Park at the University of Maryland about progress on making a universal flu vaccine.

Presenter: Claudia Hammond  
Producer: Erika Wright

(Picture: Marburg virus, cut-away illustration. Photo credit: Roger Harris/Science Photo Library/Getty Images.)

#### WED 21:00 BBC News (w172ykq4ypb4mc4)

The latest five minute news bulletin from BBC World Service.

#### WED 21:06 Newshour (w172yfc21w3759f)

Will Sri Lanka's demonstrators accept new president?

Sri Lanka's new president is Ranil Wickremesinghe, who was the former prime minister and part of the former government.

In his acceptance speech, he appealed for unity to tackle the challenges facing Sri Lanka. But will Sri Lanka's demonstrators accept this figure from the previous administration?

Also in the programme: Why Brazil's President Bolsonaro is saying there are problems in the electoral system ahead of elections in October; and Boris Johnson's farewell to the UK parliament as the race to replace him heats up.

(Photo shows a protestor wearing a band as he attends a protest against Sri Lanka's newly elected President Ranil Wickremesinghe, amid the country's economic crisis, in Colombo, Sri Lanka. Credit: REUTERS/Adnan Abidi)

#### WED 22:00 BBC News (w172ykq4ypb4r38)

The latest five minute news bulletin from BBC World Service.

#### WED 22:06 HARDtalk (w3ct1n70)

[Repeat of broadcast at 08:06 today]

#### WED 22:30 BBC News Summary (w172ykqzddx3cn)

The latest two minute news summary from BBC World Service.

#### WED 22:32 On the Podium (w3ct4214)

[Repeat of broadcast at 04:32 today]

#### WED 23:00 BBC News (w172ykq4ypb4vvd)

The latest five minute news bulletin from BBC World Service.

#### WED 23:06 The Newsroom (w172yrwxhm0vvwz)

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

#### WED 23:20 Sports News (w172ygh58y9sywp)

BBC Sport brings you all the latest stories and results from around the world.

#### WED 23:30 BBC News Summary (w172ykqzddxv73s)

The latest two minute news summary from BBC World Service.

#### WED 23:32 World Business Report (w172ykb3vpxw8x)

EU tells people to switch off their lights to save energy

In Europe the key Nord Stream One pipeline, which provides about ten percent of the continent's gas, is due to reopen on Thursday after maintenance. President Putin now says it's not clear what condition its turbine will be in after repairs in Canada. Leon Izbicki, a European natural gas analyst for Energy Aspect, explains the situation. We hear from Jonathan Grassi in Italy about what this means for his business.

Sri Lanka's new president, Ranil Wickremesinghe, has called for unity in the face of economic turmoil and political division, after comfortably beating his nearest rival in a parliamentary vote. Rohan Samarajiva is the founding Chair of the LIRNEasia policy and regulation think tank, and joins us from Colombo.

Uganda's President, Yoweri Museveni, has defended his government's decision not to give subsidies or reduce taxes - saying the money should be used to solve other problems the country is facing. BBC correspondent, Patricia Oyella, explains the cost of living crisis from Kampala.

The Swedish golfer Henrik Stenson has joined the LIV Golf series after being removed as Europe's Ryder Cup captain. He becomes the latest professional to join the breakaway tour, which is financed by the Public Investment Fund, the sovereign wealth fund of Saudi Arabia. US based golf journalist Alex

Miceli explains the controversy.

(Picture: LUBMIN, GERMANY - JULY 11: The receiving station for the Nord Stream 1 natural gas pipeline stands on July 11, 2022 near Lubmin, Germany. Picture Credit: Getty Images).

#### THURSDAY 21 JULY 2022

#### THU 00:00 BBC News (w172ykq4ypb4zlj)

The latest five minute news bulletin from BBC World Service.

#### THU 00:06 The Documentary (w3ct43br)

[Repeat of broadcast at 12:06 on Saturday]

#### THU 01:00 BBC News (w172ykq4ypb53bn)

The latest five minute news bulletin from BBC World Service.

#### THU 01:06 Business Matters (w172ydpgrz63qk)

Extreme heat: Biden's \$2.3bn plan of action

Rahul Tandon is joined by Zyma Islam, a journalist for the Daily Star in Dhaka, Bangladesh, and Toronto-based technology journalist Takara Small.

As the heatwave continues to challenge countries the world over, the US President announces \$2.3bn of new measures to respond to climate change. But are they enough? Rahul speaks to the Boston Globe's climate reporter Sabrina Shankman.

Coinbase's stock price has jumped 14% following the collapse of other cryptocurrency exchange platforms. Crypto correspondent for Insider, April Joyner, helps unpick what's been going in the industry over the last few months.

And as China continues its Covid elimination policy in spite of criticism from business, Rahul asks Shanghai-born, America-based epidemiologist Eric Feigl Ding what other action the country might be able to take on Covid control.

(JULY 20: President Joe Biden delivers remarks on climate change and clean energy at Brayton Point Power Station on July 20, 2022 in Somerset, Massachusetts. Biden announced executive actions on the 'climate crisis.' Picture Credit: Getty Images).

#### THU 02:00 BBC News (w172ykq4ypb572s)

The latest five minute news bulletin from BBC World Service.

#### THU 02:06 The Newsroom (w172y17sc2p4kq5)

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

#### THU 02:30 BBC News Summary (w172ykqzddxv1c5)

The latest two minute news summary from BBC World Service.

#### THU 02:32 Assignment (w3ct303v)

Shanghai lockdown

After two months of a gruelling strict lockdown, Shanghai has emerged a changed city, some residents say. During the 65 toughest days, some were reduced to begging for food and pleading for access to their young children from whom they'd been separated. The regime wasn't just brutal, some claim, it was largely fruitless, as the omicron strain of Covid continues to spread now. What's more the economic fallout for China's commercial capital, and key supply chains across the country and internationally, are only gradually becoming apparent. What's the legacy of Shanghai's zero-Covid experiment?

Producer and presenter: Ed Butler

Studio mix: Neil Churchill

Production coordinators: Iona Hammond and Gemma Ashman  
Editor: Penny Murphy

Image: Workers in protective suits stand at a closed residential area during lockdown, amid the coronavirus disease (COVID-19) outbreak, in Shanghai, China, May 23, 2022 (Credit: Aly Song/Reuters)

#### THU 03:00 BBC News (w172ykq4ypb5btx)

The latest five minute news bulletin from BBC World Service.

#### THU 03:06 Outlook (w3ct3y8m)

[Repeat of broadcast at 12:06 on Wednesday]

#### THU 03:50 Witness History (w3ct3c5r)

[Repeat of broadcast at 08:50 on Wednesday]

#### THU 04:00 BBC News (w172ykq4ypb5g1l)

The latest five minute news bulletin from BBC World Service.

#### THU 04:06 The Newsroom (w172y17sc2p4t6f)

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

#### THU 04:30 BBC News Summary (w172ykqzddxvtfv)

The latest two minute news summary from BBC World Service.

#### THU 04:32 The Food Chain (w3ct38n3)

Why use food for fuel?

Biofuels are a way to make our cars, lorries and even planes run on renewable fuel. They're often made from food crops.

Globally 7% of cereal crops and 15% of vegetable oil crops are used to make biofuel - according to data from the Organisation for Economic Co-operation and Development (OECD) and the United Nations Food and Agriculture Organization (FAO).

As pressure on food prices and supply chains increase, some people are questioning why we turn food into fuel.

In this programme we'll be looking at the history of biofuels, why food crops have been used, and what alternatives may exist. Joining us are Daniel Kammen, Professor of Energy at University of California, Berkeley, who is currently serving as a senior advisor for energy and innovation in the Biden administration in the United States; Bernardo Gradin, the founder and CEO of Gran Bio, a company that produces biofuel made from sugar cane waste in Brazil; and Sailaja Nori, Chief Scientific Officer at Sea6 Energy, a company investigating the possibilities of biofuel made from seaweed in India and Indonesia.

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

Presented by Ruth Alexander.

Produced by Beatrice Pickup.

Additional reporting by Ashish Shama.

(Image: Field of rapeseed crops behind picture of fuel nozzle. Rapeseed image credit: BBC. Fuel nozzle credit: Matthew Fearn/PA)

#### THU 05:00 BBC News (w172ykq4ypb51b5)

The latest five minute news bulletin from BBC World Service.

#### THU 05:06 Newsday (w172yf8lqp966zl)

Ranil Wickremesinghe elected as Sri Lanka president

Sri Lankan lawmakers voted in acting President, Ranil Wickremesinghe, as the new president on Wednesday, hoping his long experience in government can help pull the country out of a crippling economic and political crisis.

President Biden has taken executive steps to address climate change, which he described as an existential threat to the nation and the world.

And fears that Shanghai could be caught in a new Covid lockdown.

#### THU 06:00 BBC News (w172ykq4ypb5q29)

The latest five minute news bulletin from BBC World Service.

#### THU 06:06 Newsday (w172yf8lqp966gq)

Sri Lanka braced for more unrest

Sri Lanka's new president, Ranil Wickremesinghe, has been sworn into office. He faces the task of reunifying his economically-stricken nation, which has seen months of unrest that toppled his disgraced predecessor, Gotabaya Rajapaksa.

Italy's embattled Prime Minister, Mario Draghi, is likely to tender his resignation today, a day after three main coalition allies snubbed him in a Senate confidence vote.

And the European Commission urges countries across the bloc to cut their gas use by 15% amid fears Russia could halt supplies.

#### THU 07:00 BBC News (w172ykq4ypb5tff)

The latest five minute news bulletin from BBC World Service.

#### THU 07:06 Newsday (w172yf8lqp966gv)

Sri Lanka's new president sworn into office

Veteran politician Ranil Wickremesinghe has been sworn in as Sri Lanka's new president. He faces the task of reuniting the economically-stricken nation, which has seen months of unrest.

Gas flows from Russia to Germany through the Nord Stream One pipeline have resumed after ten days of annual maintenance work, allaying European concerns that Russia could delay the reopening.

And likely fresh elections in Italy if embattled Prime Minister, Mario Draghi, tenders his resignation as expected.

**THU 08:00 BBC News (w172ykq4ypb5ykk)**  
The latest five minute news bulletin from BBC World Service.

**THU 08:06 The Inquiry (w3ct3917)**  
What impact has Brexit had on the UK's economy?

In 2016 Britain voted to leave the European Union. There were warnings that pulling away from the largest trade bloc in the world would be damaging to the UK's finances. Those that campaigned for Brexit argued it would offer the UK self-determination and the freedom to forge its own trade relationships.

Who was right?

This week on The Inquiry we attempt to disentangle the numbers from the complications of the global pandemic and the war in Ukraine and ask, what impact has Brexit had on the UK's economy.

Presenter: Tanya Beckett  
Producer: Louise Clarke-Rowbotham  
Researcher: Christopher Blake  
Technical Producer: Craig Boardman  
Edited by: Tara McDermott

(image: Trade between UK and EU. Getty images)

**THU 08:30 BBC News Summary (w172yqkzddxw9ty)**  
The latest two minute news summary from BBC World Service.

**THU 08:32 Business Daily (w3ct311y)**  
Fertility problems and pesticides in Panama

Grace Livingstone investigates the ongoing case a group of men in Panama have brought against banana firms. We hear from two of the men who claim they were made sterile after handling a pesticide in their jobs on banana plantations.

United States companies used a pesticide called DBCP on banana plantations in Latin America in the late 1970s, even though the United States restricted and then banned its use in mainland America because of the health risks. We ask why – even today – pesticides that are outlawed in one country can still be exported and used abroad.

Presenter / producer: Grace Livingstone  
Image: Mr Coba at the banana plantation where he used to work; Credit: Grace Livingstone

**THU 08:50 Witness History (w3ct3c17)**  
The Soviet James Bond

The most successful TV spy series ever to be broadcast in the USSR, went on air in 1973. The central character was a Soviet secret agent in Nazi Germany, Max Otto von Stierlitz. In 2017, Dina Newman spoke to actor Eleonora Shashkova who played Stierlitz's wife.

(Photo: the script-writer Julian Semenov (l) and actor Vyacheslav Tikhonov, who played Stierlitz (r), on set in Moscow in 1972. Credit: courtesy of Julian Semenov Foundation.)

**THU 09:00 BBC News (w172ykq4ypb629p)**  
The latest five minute news bulletin from BBC World Service.

**THU 09:06 Assignment (w3ct303v)**  
[Repeat of broadcast at 02:32 today]

**THU 09:30 BBC News Summary (w172yqkzddxwfl2)**  
The latest two minute news summary from BBC World Service.

**THU 09:32 Health Check (w3ct32wn)**  
[Repeat of broadcast at 20:32 on Wednesday]

**THU 10:00 BBC News (w172ykq4ypb661t)**  
The latest five minute news bulletin from BBC World Service.

**THU 10:06 The Forum (w3ct38sm)**  
La Malinche: Mexico's great 'traitor'

In Mexico the name La Malinche has become synonymous with treachery and betrayal - it even forms one of the country's most vicious insults. Some have described its owner, an indigenous slave who became the interpreter and mistress of conquistador Hernán Cortés, as the most hated woman in Mexico's history.

But by helping the Spanish topple the Aztecs in the early sixteenth century was she really guilty of selling out her own people, or simply doing everything she could to survive? Might we credit her with limiting the lives lost in the bloody conflict – one she knew her people could not hope to win?

Bridget Kendall explores the little-known life, and hotly-contested legacy of one of the most controversial figures in Latin American history, and the role she played in the meeting of the Old World and the New.

We hear how La Malinche's story, and motives, have been re-interpreted over the last 500 years, and learn why she remains important in discussions of national identity, gender, culture and politics in Mexico to this day.

Producer: Simon Tulett

Contributors:  
Camilla Townsend, distinguished professor of history at Rutgers University, USA, and author of 'Malintzin's Choices: An Indian Woman in the Conquest of Mexico';  
Dr Fernando Cervantes, a historian of early modern Spain and Spanish America at the University of Bristol, UK, and author of 'Conquistadores: A New History';  
Sandra Messinger Cypess, professor emerita of Latin American literature at the University of Maryland, USA, and author of 'La Malinche in Mexican Literature: From History to Myth'.

(Picture: La Malinche – a Mexican engraving, 1885, from the library of Catalonia, Barcelona, Spain. Credit: Prisma/Universal Images Group via Getty Images)

**THU 10:50 Sporting Witness (w3ct36fs)**  
Yohann Gene - The Tour de France's First Black Cyclist

After 14 years training and riding in a variety of tours, cyclist Yohann Gene from Guadeloupe, finally earned approval from his coach and was selected to race in the 2011 Tour De France. He then made history by becoming the first black man to finish the brutal race.

(Getty Images: Yohann Gene in the Tour de France)

**THU 11:00 BBC News (w172ykq4ypb69sy)**  
The latest five minute news bulletin from BBC World Service.

**THU 11:06 The Newsroom (w172yl7sc2p5nfb)**  
The world's Newsroom brings you global events as they happen

**THU 11:30 BBC News Summary (w172yqkzddxw2b)**  
The latest two minute news summary from BBC World Service.

**THU 11:32 The Food Chain (w3ct38n3)**  
[Repeat of broadcast at 04:32 today]

**THU 12:00 BBC News (w172ykq4ypb6fk2)**  
The latest five minute news bulletin from BBC World Service.

**THU 12:06 Outlook (w3ct34w8)**  
The maid-turned-rapper taking on racism in Brazil

Preta-Rara is a Brazilian rapper, author, historian – and former maid. In 2016, when she wrote a post on social media about her time as a domestic worker, it went viral, sparking an avalanche of responses from maids all over Brazil sharing stories of the racism, exploitation and abuse they'd experienced at work. She quickly found herself the de facto spokesperson for a movement – using the platform she has in the music industry and on social media to challenge views about domestic work, racism and body shaming in Brazil.

The singer known as Dona Onete proves it's never too late to follow your dreams. She made her first record in 2012 at the age of 73. Since then, the Brazilian great-grandmother has been performing in the US and Europe and touring her home country. Outlook's Gibby Zobel spoke to her in 2017.

Robert Darden is an American professor who's dedicated his

life to preserving gospel music. Over the years he's collected 8,000 songs, digitised them and made them available to the public. This interview was first broadcast in 2017.

Get in touch: outlook@bbc.com

Presenter: Andrea Kennedy  
Producer: Zoe Gelber

(Photo: Preta-Rara. Credit: NELSON ALMEIDA/AFP via Getty Images)

**THU 12:50 Witness History (w3ct3c17)**  
[Repeat of broadcast at 08:50 today]

**THU 13:00 BBC News (w172ykq4ypb6k96)**  
The latest five minute news bulletin from BBC World Service.

**THU 13:06 The Newsroom (w172yl7sc2p5wxl)**  
The world's Newsroom brings you global events as they happen

**THU 13:30 BBC News Summary (w172yqkzddxwkl)**  
The latest two minute news summary from BBC World Service.

**THU 13:32 Health Check (w3ct32wn)**  
[Repeat of broadcast at 20:32 on Wednesday]

**THU 14:00 BBC News (w172ykq4ypb6p1b)**  
The latest five minute news bulletin from BBC World Service.

**THU 14:06 Newshour (w172yfc21w396gm)**  
Nord Stream pipeline resumes pumping gas to Europe

Russia has resumed pumping gas to Europe through its biggest pipeline after warnings it could curb or halt supplies altogether. Also on the programme, A year-and-a-half after he was appointed as Italy's unelected head of a unity government, Mario Draghi has resigned as prime minister. And, one of the world's most remarkable insects, the migratory monarch butterfly, is now officially an endangered species.

(Picture: Nord stream pipeline. Credit: Alamy)

**THU 15:00 BBC News (w172ykq4ypb6ssg)**  
The latest five minute news bulletin from BBC World Service.

**THU 15:06 The Inquiry (w3ct39t7)**  
[Repeat of broadcast at 08:06 today]

**THU 15:30 BBC News Summary (w172yqkzddxw51v)**  
The latest two minute news summary from BBC World Service.

**THU 15:32 World Business Report (w172yk69x6pk92j)**  
Ten years since Greece's debt crisis

The European Central Bank has joined others around the world by raising its base rate in an effort to curb inflation. It's the first time the Eurozone has seen higher interest rates since 2011.

Back then, Greece was the epicentre of a debt crisis which engulfed the whole continent's economy. Join us for a special edition of World Business Report, live from Athens. Victoria Craig hears from economists and business owners about how the economy is coping in 2022; as well as young Greek citizens who face an uncertain future.

(Picture: A solitary €1 coin against the European Central Bank's logo. Credit: Getty Images).

**THU 16:00 BBC News (w172ykq4ypb6xjl)**  
The latest five minute news bulletin from BBC World Service.

**THU 16:06 BBC OS (w172yg1mv5nn9wn)**  
What is it like to have monkeypox?

The World Health Organisation has been meeting to decide whether to declare an international health emergency over the spread of monkeypox. We speak to someone who's had the disease to hear about the symptoms and the stigma attached. And one of our regular health experts explains what is known about monkeypox and vaccines against the virus.

President Biden has tested positive for Covid-19 but is experiencing only mild symptoms. We find out what is happening with the spread of the Omicron variants around the world.

Heatwaves around the world have become more frequent, more intense, and last longer because of climate change. We speak to a meteorologist and a weather reporter about how they explain the link between extreme weather and climate change to the public.

And we hear a disturbing story about a woman in Mexico who was set on fire in a park and died of her injuries. She had alerted authorities months before the attack about being threatened.

(Photo: Test tubes labeled "Monkeypox virus positive and negative" are seen in this illustration taken May 23, 2022. Credit: Dado Ruvic/Illustration/File Photo/REUTERS)

#### THU 17:00 BBC News (w172ykq4ypb718q)

The latest five minute news bulletin from BBC World Service.

#### THU 17:06 BBC OS (w172yg1mv5nnfms)

Nigerian bread makers strike over rising costs

Nigerian bread makers say they are suffering losses due to the cost of baking items and the diesel which they use to run their bakeries. We asked some of our listeners in Nigeria how it has been affecting them.

Gas is once again flowing from Russia into Europe through Nord Stream 1 pipeline. We explain the impact on gas supplies to the European Union.

Heatwaves around the world have become more frequent, more intense, and last longer because of climate change. We speak to a meteorologist and a weather reporter about how they explain the link between extreme weather and climate change to the public.

We find out about a new treatment for people with the blood disorder Haemophilia B that's been described as "transformational".

(Photo: BBC graphics)

#### THU 18:00 BBC News (w172ykq4ypb750v)

The latest five minute news bulletin from BBC World Service.

#### THU 18:06 Outlook (w3ct34w8)

[Repeat of broadcast at 12:06 today]

#### THU 18:50 Witness History (w3ct3c17)

[Repeat of broadcast at 08:50 today]

#### THU 19:00 BBC News (w172ykq4ypb78rz)

The latest five minute news bulletin from BBC World Service.

#### THU 19:06 The Newsroom (w172yl7sc2p6mdc)

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

#### THU 19:30 BBC News Summary (w172ykqzddxxn1c)

The latest two minute news summary from BBC World Service.

#### THU 19:32 Sport Today (w172ygfjdh3hsqw)

2022/07/21 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 (w172ykq4ypb7dj3)

The latest five minute news bulletin from BBC World Service.

#### THU 20:06 Assignment (w3ct303v)

[Repeat of broadcast at 02:32 today]

#### THU 20:30 BBC News Summary (w172ykqzddxxrsh)

The latest two minute news summary from BBC World Service.

#### THU 20:32 Science In Action (w3ct3698)

Heat waves in the Northern Hemisphere

The extreme heat wave in western Europe over the last couple of weeks is just one of many in the Northern Hemisphere in 2022. How is global warming changing the atmosphere to make heat waves more frequent and more intense? We talk to climatologists Hannah Cloke, Friederike Otto and Efi Roussi.

If we want to stabilise global warming to two degrees by the end

of the century, how are we going to do that? One novel idea is to harness the world's vast railway infrastructure and equip freight and passenger trains with an additional special wagon or two. These extra cars would be designed to suck carbon dioxide out of the air, liquify it and transport it to sequestration sites. Critically all the energy to capture the carbon dioxide comes free from regenerative braking on the trains. University of Toronto chemist Geoff Ozin and Eric Bachman, founder of the start-up CO2 Rail, explain the vision.

On the 40th anniversary of the International Whaling Commissions announcing an end to commercial whaling, we hear from Greenpeace co-founder Rex Weyler about the high seas campaign in the 1970s that helped prevent the extinction of the great whales. He talks about the contribution to the cause made by the discovery of whale song, and the release of humpback whale recordings as a commercial disc.

(Image: Firefighter trucks burning during a wildfire on the Mont d'Arrees, outside Brasparts, western France, 19 July 2022. Credit: LOIC VENANCE/ AFP via Getty Images)

Presenter: Andrew Luck-Baker

Producer: Andrew Luck-Baker

#### THU 21:00 BBC News (w172ykq4ypb7j87)

The latest five minute news bulletin from BBC World Service.

#### THU 21:06 Newshour (w172yfc21w3b26j)

Italy's Prime Minister resigns

Mario Draghi's resignation triggers fresh elections in September. So who is Georgia Meloni, leader of the far right populist "Brothers of Italy" party, tipped to win next time?

Also in the programme: a vital gas pipeline from Russia starts up again, if only still at 60% capacity. But will Moscow keep the gas flowing? We hear about the fears in Germany; and will Ukraine get the weapons it needs from western powers to defend itself?

(Image: Italian Prime Minister Mario Draghi leaves the Giustiniani Palace after communicating his resignation to the President of the Senate Casellati, in Rome, Italy, 21 July 2022 / Credit: EPA / Fabio Frustaci)

#### THU 22:00 BBC News (w172ykq4ypb7n0c)

The latest five minute news bulletin from BBC World Service.

#### THU 22:06 The Inquiry (w3ct3917)

[Repeat of broadcast at 08:06 today]

#### THU 22:30 BBC News Summary (w172ykqzddxy08r)

The latest two minute news summary from BBC World Service.

#### THU 22:32 The Food Chain (w3ct38n3)

[Repeat of broadcast at 04:32 today]

#### THU 23:00 BBC News (w172ykq4ypb7rrh)

The latest five minute news bulletin from BBC World Service.

#### THU 23:06 The Newsroom (w172yrwxhm0yrt2)

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

#### THU 23:20 Sports News (w172ygh58y9wvss)

BBC Sport brings you all the latest stories and results from around the world.

#### THU 23:30 BBC News Summary (w172ykqzddxy40w)

The latest two minute news summary from BBC World Service.

#### THU 23:32 World Business Report (w172yk74by98kgv)

ECB ends its decade-long interest rate hike hiatus

As the EU battles rocketing inflation, the European Central Bank lifts interest rates for the first time in more than a decade. But is it enough? Holger Schmieding, chief economist for the Hamburg-based Berenberg Bank, explains the ECB's thinking behind this and how much difference it could make. We also hear from Greece about how the rise is being viewed there.

Italy's prime minister, Mario Draghi, has resigned after losing the support of his three coalition partners in government. Natalie Tocci, director of the Institute of International Affairs in Rome, gives her view on what's next for the country.

Amazon has agreed to buy US healthcare provider One Medical for \$3.9bn as the ecommerce giant furthers its push into the

medical industry. Professor of Marketing at NYU University Scott Galloway explains how he saw Amazon moving into healthcare as far back as 2019.

And the Irish sport of hurling is facing equipment shortages because of the wood used being affected by disease and the war in Ukraine has also hit supplies. Hurler-maker David Dowling explains.

(Picture: President of the European Central Bank (ECB) Christine Lagarde addresses a press conference on eurozone monetary policy following the meeting of the governing council of the ECB in Frankfurt am Main, western Germany, on July 21, 2022. Picture Credit: Getty Images)

#### FRIDAY 22 JULY 2022

#### FRI 00:00 BBC News (w172ykq4ypb7whm)

The latest five minute news bulletin from BBC World Service.

#### FRI 00:06 The Forum (w3ct38sm)

[Repeat of broadcast at 10:06 on Thursday]

#### FRI 00:50 Sporting Witness (w3ct36fs)

[Repeat of broadcast at 10:50 on Thursday]

#### FRI 01:00 BBC News (w172ykq4ypb807r)

The latest five minute news bulletin from BBC World Service.

#### FRI 01:06 Business Matters (w172ydpgrz90mn)

Amazon moves into healthcare

Vivienne Nunis is joined by Shuli Ren, Bloomberg writer based in Hong Kong, and Tony Nash, chief economist at Complete Intelligence in Texas, USA.

Riot police in Sri Lanka crack down on protesters after the new president is sworn in, the BBC's Anbarasan Etrajan in Colombo discusses what this might say about the new leadership.

Amazon has agreed to buy US healthcare provider One Medical for \$3.9bn as the ecommerce giant furthers its push into the medical industry. Professor of Marketing at NYU University Scott Galloway explains how he saw Amazon moving into healthcare as far back as 2019.

And China's Zhengzhou city is creating a property developer bailout fund as increasing numbers of homeowners join a nationwide boycott of mortgage payments on unfinished houses. Shuli, who worked at Lehman Brothers in New York during the 2008 crash, sees some eerie comparisons.

(Picture caption: SPAIN - 2022/01/24: In this photo illustration medical syringes seen with an Amazon logo in the background. Credit: Getty Images)

#### FRI 02:00 BBC News (w172ykq4ypb83zw)

The latest five minute news bulletin from BBC World Service.

#### FRI 02:06 The Newsroom (w172yl7sc2p7gm8)

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

#### FRI 02:30 BBC News Summary (w172ykqzddxyh88)

The latest two minute news summary from BBC World Service.

#### FRI 02:32 World Football (w3ct3hqB)

Euro 2022 and the women's Africa Cup of Nations

Dutch defender Dominique Janssen looks ahead to her Euro 2022 quarter-final and reflects on the tournament. We also hear from South Africa's Thalea Smidt ahead of the Africa Cup of Nations final.

Picture on website: Fans of Iceland during the Group D UEFA Women's EURO 2022 match against France (Photo by Joris Verwijst/Orange Pictures/BSR Agency/Getty Images)

#### FRI 03:00 BBC News (w172ykq4ypb87r0)

The latest five minute news bulletin from BBC World Service.

#### FRI 03:06 Outlook (w3ct34w8)

[Repeat of broadcast at 12:06 on Thursday]

#### FRI 03:50 Witness History (w3ct3c17)

[Repeat of broadcast at 08:50 on Thursday]

**FRI 04:00 BBC News (w172ykq4ypb8ch4)**

The latest five minute news bulletin from BBC World Service.

**FRI 04:06 The Newsroom (w172y17sc2p7q3j)**

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

**FRI 04:30 BBC News Summary (w172ykqzddxyqrj)**

The latest two minute news summary from BBC World Service.

**FRI 04:32 Heart and Soul (w3ct423j)**

How do I explain this?

Writer and poet Nikita Gill and sitar virtuoso and composer Anoushka Shankar are friends and collaborators whose life stories share many parallels. In this programme, recorded sitting with tea and doughnuts on the floor of a child's bedroom, they share an intimate conversation about a moment of spiritual awakening.

Nikita reflects on the idea that awakenings or epiphanies often follow a challenging or traumatic phase of life. She recalls a series of personal experiences which compelled her to take a train north and walk all through the night and into dawn. She describes how she returned from this experience a changed person.

Anoushka describes how a build up of stressful experiences pushed her to a breaking point which also became a spiritual calling.

Together the women reflect on the idea that these moments are a profound part of the story arc of our lives, forcing us to confront our deepest values and setting us on a new path. They share how the experience led to new wisdoms and spiritual practices.

Producer: Sarah Cuddon

A Falling Tree production for BBC World Service

**FRI 05:00 BBC News (w172ykq4ypb8h78)**

The latest five minute news bulletin from BBC World Service.

**FRI 05:06 Newsday (w172yf8lqp993wp)**

Live news, business and sport from around the world.

**FRI 06:00 BBC News (w172ykq4ypb8lzd)**

The latest five minute news bulletin from BBC World Service.

**FRI 06:06 Newsday (w172yf8lqp997mt)**

Live news, business and sport from around the world.

**FRI 07:00 BBC News (w172ykq4ypb8qaj)**

The latest five minute news bulletin from BBC World Service.

**FRI 07:06 Newsday (w172yf8lqp999ccy)**

Live news, business and sport from around the world.

**FRI 08:00 BBC News (w172ykq4ypb8vgn)**

The latest five minute news bulletin from BBC World Service.

**FRI 08:06 HARDtalk (w3ct32g3)**

Sharan Burrow: Do workers have faith in collective action?

Stephen Sackur interviews the General Secretary of the International Trade Union Confederation, Sharan Burrow. There are signs of deepening worker discontent around the world; inflation is outstripping wages, and global corporations stand accused of putting profits before people, while many governments see organised labour as a threat. Have workers lost their faith in collective action?

**FRI 08:30 BBC News Summary (w172ykqzddxz6r1)**

The latest two minute news summary from BBC World Service.

**FRI 08:32 Business Daily (w3ct30rx)**

Business Daily meets: Kiran Mazumdar-Shaw

Kiran Mazumdar-Shaw trained as a master brewer, but in late-1970s India she was rejected by the beer industry – it wasn't seen as a job for a woman. Undeterred, she put her scientific mind and entrepreneurial prowess to setting up what would become one of India's largest pharmaceutical companies, Biocon. She tells Rahul Tandon about her humble beginnings in

business, overcoming challenges and inspiring other female entrepreneurs.

Presenter: Rahul Tandon

Producers: Rahul Tandon, Sam Clack, Rory Claydon

Image: Kiran Mazumdar-Shaw; Credit: Biocon

**FRI 08:50 Witness History (w3ct3bwq)**

Nigerian sitcom Papa Ajasco

In 1996, sitcom Papa Ajasco first hit Nigerian TV screens. Following the ups and downs of the Ajasco family – it quickly became one of the most successful TV shows in Nigerian history. Alex Collins speaks to its creator Wale Adenuga (photo - The cast of Papa Ajasco - credit Wale Adenuga.)

**FRI 09:00 BBC News (w172ykq4ypb8z6s)**

The latest five minute news bulletin from BBC World Service.

**FRI 09:06 Tech Tent (w3ct375c)**

Is Tesla in trouble?

On Tech Tent this week, tech journalist Charles Arthur on the troubles at Tesla. The boss of Tinder tells our reporter Shiona McCallum how she wants to make the dating platform safer. The creator of an app to help children with type diabetes on his troubles with the Google playstore. And Robert Metcalfe, associate professor of Economics at the University of Southern California, on the powerful way fake reviews warp our online shopping habits.

**FRI 09:30 BBC News Summary (w172ykqzddzxbh5)**

The latest two minute news summary from BBC World Service.

**FRI 09:32 Science In Action (w3ct3698)**

[Repeat of broadcast at 20:32 on Thursday]

**FRI 10:00 BBC News (w172ykq4ypb92yx)**

The latest five minute news bulletin from BBC World Service.

**FRI 10:06 The Real Story (w3ct33p5)**

Can our cities survive climate change?

Europe was this week hit by an extreme heatwave exacerbating drought conditions and sparking wildfires in France, Spain, Italy, Greece and Portugal. The UK also broke its record temperature exceeding 40C. All this just weeks after flooding caused widespread disruption in Sydney, Australia. Scientists agree that reducing greenhouse gas emissions is key to limiting the severity of climate change. But the planet has already warmed by 1.1C above pre-industrial levels and temperatures are expected to continue rising. More than half of the world's population live in cities and that figure is expected to rise to 68% by 2050. Extreme heat, droughts, wildfires, storm surges and flooding - both inland and along coastlines - will increasingly cause damage and deaths. So, how can we make cities more resilient to the inevitable impacts of a warming planet? What obstacles are preventing greater action? And will the rich world protect itself while poorer communities are left to fend for themselves?

Ritula Shah is joined by a panel of expert guests.

Producers: Paul Schuster and Zak Brophy.

**FRI 11:00 BBC News (w172ykq4ypb96q1)**

The latest five minute news bulletin from BBC World Service.

**FRI 11:06 The Newsroom (w172y17sc2p8kbf)**

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

**FRI 11:30 BBC News Summary (w172ykqzddzskzf)**

The latest two minute news summary from BBC World Service.

**FRI 11:32 World Football (w3ct3hqh)**

[Repeat of broadcast at 02:32 today]

**FRI 12:00 BBC News (w172ykq4ypb9hg5)**

The latest five minute news bulletin from BBC World Service.

**FRI 12:06 The Fifth Floor (w3ct37zg)**

The cost of keeping Putin Covid free

Around \$54.6m was spent on measures to protect President Vladimir Putin from Covid in 2020 and 2021, according to openly available data from Russian state sources. Sergei Goryashko of BBC Russian explains how this money was spent

and why the measures seem to be continuing.

Afghan women

BBC Afghan's Pashto and Dari services have launched a new radio programme. It's called 'Women' and aims to provide information, inspiration and entertainment to Afghan women and girls now mostly confined at home. Presenters Shazia Haya and Aalia Farzan share their motivations, laughter, and memories of mothers back home.

Heatwave in Pakistan's Cholistan desert

Livestock herders and their flocks in Pakistan's Cholistan desert are used to extreme heat. But this year temperatures of 50 degrees were recorded months earlier than usual, and hundreds of animals have died. BBC Urdu's Umer Draz Nangiana visited farmers in remote villages to hear their stories.

Vietnam's hot weather surcharge

Consumers are used to companies adding on surcharges for this and that - but the ride hailing and delivery app Grab went just a bit too far for users in Vietnam with its recent hot weather fee. BBC Vietnamese journalist Thuong Le followed the story.

A trip to the Belgrade lido

Over the summer months, people in the Serbian capital Belgrade can cool off at a beach minutes from the city centre. The much-loved lido is on an island in the River Danube, and Slobodan Maricic recently joined regulars there for BBC Serbian.

(Photo: Russian President Vladimir Putin wearing protective gear March 2020. Credit: Alexey Druzhinin/Sputnik/AFP via Getty Images)

**FRI 12:50 Witness History (w3ct3bwq)**

[Repeat of broadcast at 08:50 today]

**FRI 13:00 BBC News (w172ykq4ypb9g69)**

The latest five minute news bulletin from BBC World Service.

**FRI 13:06 The Newsroom (w172y17sc2p8stp)**

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

**FRI 13:30 BBC News Summary (w172ykqzddzxtgp)**

The latest two minute news summary from BBC World Service.

**FRI 13:32 Science In Action (w3ct3698)**

[Repeat of broadcast at 20:32 on Thursday]

**FRI 14:00 BBC News (w172ykq4ypb9kyf)**

The latest five minute news bulletin from BBC World Service.

**FRI 14:06 Newshour (w172yfc21w3d3wq)**

Russia and Ukraine sign agreement to resume grain exports

Russia and Ukraine to sign agreement to resume vital exports of Ukrainian grain, the deal brokered by Turkey is due to be signed in Istanbul, US congressional committee's been told that Donald Trump ignored plea to stop last year's assault on the Capitol and the shocking testimony from soldiers in Myanmar of crimes they were ordered to carry out.

(Photo: Grain harvest in Zaporizhzhia; Credit: Getty Images)

**FRI 15:00 BBC News (w172ykq4ypb9ppk)**

The latest five minute news bulletin from BBC World Service.

**FRI 15:06 HARDtalk (w3ct32g3)**

[Repeat of broadcast at 08:06 today]

**FRI 15:30 BBC News Summary (w172ykqzddy01yy)**

The latest two minute news summary from BBC World Service.

**FRI 15:32 World Business Report (w172yk31498wz8g)**

Deal reached over Ukrainian grain supplies

Turkey says it's brokered a deal with Russia to allow grain shipments from Ukraine to restart. Hunger charities welcome the progress, but say it won't address the immediate world food crisis.

Elsewhere, in an exclusive interview with World Business Report, the head of the Port of Los Angeles explains how the FBI has been drafted in to fight a huge rise in attempted cyber attacks.

(Picture: Ukrainian farmers continue to farm for grain, despite

the export blockade. Credit: Getty Images).

**FRI 16:00 BBC News (w172ykq4ypb9ftf)**

The latest five minute news bulletin from BBC World Service.

**FRI 16:06 BBC OS (w172yg1mv5nr6sr)**

What can end the Nigerian university strikes?

Professors in Nigeria's public universities have been on strike for almost six months. They are disagreement with the federal government over pay, university facilities, and welfare. So how has this strike affected professors and the students? And what can be done to end the strike? We'll bring together a student and professor to find out.

Also, Turkey has brokered a deal with Russia to unblock exports of grain from Ukraine through the Black Sea. Ukraine is one of the world's largest grain producers and Russia has been blockading its major Black Sea ports. The world shortage of Ukrainian grain has sent food prices soaring and left millions at risk of hunger. We'll speak to our correspondent to hear the latest.

And, security forces in Sri Lanka raided the main anti-government protest camp in the capital early on Friday, arresting protesters and dismantling tents. Hundreds of troops and police commandos moved on the protesters outside the presidential offices in Colombo, hours before they were due to leave the area. A BBC video journalist was beaten by the army and one soldier snatched his phone and deleted videos. We'll speak to our correspondent who was there.

(Photo: Nigerian President Muhammadu Buhari arrives for day six of the Commonwealth Heads of Government Meeting at the Intare Conference centre in Kigali, Rwanda June 25, 2022. Credit: Dan Kitwood/Pool via REUTERS)

**FRI 17:00 BBC News (w172ykq4ypb9y5t)**

The latest five minute news bulletin from BBC World Service.

**FRI 17:06 BBC OS (w172yg1mv5nrbjw)**

Russia and Ukraine sign grain deal

Turkey has brokered a deal with Russia to unblock exports of grain from Ukraine through the Black Sea. Ukraine is one of the world's largest grain producers and Russia has been blockading its major Black Sea ports. The world shortage of Ukrainian grain has sent food prices soaring and left millions at risk of hunger. We'll speak to our correspondent to hear the latest.

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(Photo: Russian Defence Minister Sergei Shoigu attends a signing ceremony in Istanbul, Turkey 22 July, 2022. Credit: Umit Bektas/Reuters)

**FRI 18:00 BBC News (w172ykq4ypbb1xy)**

The latest five minute news bulletin from BBC World Service.

**FRI 18:06 The Fifth Floor (w3ct37zg)**

[Repeat of broadcast at 12:06 today]

**FRI 18:50 Witness History (w3ct3bwq)**

[Repeat of broadcast at 08:50 today]

**FRI 19:00 BBC News (w172ykq4ypbb5p2)**

The latest five minute news bulletin from BBC World Service.

**FRI 19:06 The Newsroom (w172y17sc2p9j9g)**

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

**FRI 19:30 BBC News Summary (w172ykqzddy0jyg)**

The latest two minute news summary from BBC World Service.

**FRI 19:32 Sport Today (w172ygfjdh3lpmz)**

2022/07/22 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 (w172ykq4ypbb9f6)**

The latest five minute news bulletin from BBC World Service.

**FRI 20:06 Tech Tent (w3ct375c)**

[Repeat of broadcast at 09:06 today]

**FRI 20:30 BBC News Summary (w172ykqzddy0npl)**

The latest two minute news summary from BBC World Service.

**FRI 20:32 CrowdScience (w3ct3j74)**

Why is this song stuck in my head?

You have probably experienced an 'earworm' - a catchy bit of music that plays round and round in your head and won't go away - at least for a short while. But why did it pop up in the first place and how did it get stuck?

CrowdScience listener Ryota in Japan wants us to dig into earworms, so presenter Datsiane Navanayagam bravely puts on her headphones to immerse herself in the world of sounds that stick. She meets with a composer of children's songs as well as music psychologists to find out if there is a special formula to creating catchy songs and probes if this musical brain quirk serves any useful purpose. Datsiane then explores whether some people are more prone to catching earworms than others. Finally, for those who find this phenomenon disturbing - she asks is there a good way of getting rid of them?

Come join us down the audio wormhole - disclaimer - the BBC is not responsible for any annoying earworms caused by this broadcast.

Presented by Datsiane Navanayagam and produced by Melanie Brown

Interviewees:

Kelly Jacobowski – Assistant Professor in Music Psychology, Durham University  
Bill Sherman – Musical Director of Sesame Street  
Ashley Burgoyne – Computational Musicologist, University of Amsterdam

[Image: Audio Cassette. Credit: Getty Images]

**FRI 21:00 BBC News (w172ykq4ypbbf5b)**

The latest five minute news bulletin from BBC World Service.

**FRI 21:06 Newshour (w172yfc21w3dz3m)**

Interviews, news and analysis of the day's global events.

**FRI 22:00 BBC News (w172ykq4ypbbjxg)**

The latest five minute news bulletin from BBC World Service.

**FRI 22:06 HARDtalk (w3ct32g3)**

[Repeat of broadcast at 08:06 today]

**FRI 22:30 BBC News Summary (w172ykqzddy0x5v)**

The latest two minute news summary from BBC World Service.

**FRI 22:32 World Football (w3ct3hqb)**

[Repeat of broadcast at 02:32 today]

**FRI 23:00 BBC News (w172ykq4ypbbnnl)**

The latest five minute news bulletin from BBC World Service.

**FRI 23:06 The Newsroom (w172yrwxhm11nq5)**

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

**FRI 23:20 Sports News (w172ygh58y9zrpw)**

BBC Sport brings you all the latest stories and results from around the world.

**FRI 23:30 BBC News Summary (w172ykqzddy10xz)**

The latest two minute news summary from BBC World Service.

**FRI 23:32 World Business Report (w172yk3vl0wm7ns)**

First broadcast 22/07/2022 22:32 GMT

The latest business and finance news from around the world, on the BBC.