

**SATURDAY 15 JUNE 2019**

**SAT 19:00 Natural World (b03dzjx5)**  
2013-2014

Walrus: Two Tonne Tusker

Sivuqaq is an 18-year-old, larger-than-life captive pacific walrus. By now he should be a dad but things have not worked out. This is where reproduction scientist Holley Muraco comes in.

Holley is taking on the biggest challenge of her career - trying to help Sivuaq become a parent. Yet walrus love is a mystery - even pandas have been bred more successfully than walruses. Holley hopes the clues lie in exploring the lives of Sivuaq's wild cousins and that she can find the answers by journeying to their breeding grounds in Northern Alaska.

**SAT 20:00 Horizon (b039grrx)**  
2013-2014

Dinosaurs: The Hunt for Life

The hunt for life within the long-dead bones of dinosaurs may sound like the stuff of Hollywood fantasy, but one woman has found traces of life within the fossilised bones of a Tyrannosaurus rex.

Dr Mary Schweitzer has seen the remains of red blood cells and touched the soft tissue of an animal that died 68 million years ago. Most excitingly of all, she believes she may just have found signs of DNA. Her work is revolutionising our understanding of these iconic beasts.

**SAT 21:00 Inspector Montalbano (b08nqzt1)**  
A Delicate Matter

Drama based on the books featuring the idiosyncratic Sicilian detective. Montalbano is visiting Livia in Boccadasse when he is called back to Vigata to investigate the murder of a 70-year-old prostitute - as well as disturbing accusations at an elementary school.

In Italian with English subtitles.

**SAT 23:00 Fathers and Songs: Music for Father's Day (b02yhsb6)**

Fatherhood has proved a great subject for a variety of artists - some celebratory, some conflicted, but all inspired by what dad does and doesn't do. Here's a mixture of songs that celebrate and probe the emotional complexities generated by the sometime head of the household. Kid Creole and the Coconuts, Cat Stevens, Emmylou Harris, Paul Simon, Madonna, Peter Gabriel, Mike and the Mechanics, Suggs and the Blockheads, Neil Young, James Brown, Piggab and even Ozzy Osbourne and his daughter Kelly put in an appearance, making a cracking compilation for Father's Day.

**SAT 00:00 TOTP2 (b01by968)**  
The 60s

Episode 2

Second of three shows compiling some of the BBC's rare 60s archive hits by the likes of Clodagh Rodgers, The Move, Tom Jones and the Bee Gees. Plus more from Top of the Pops and other shows from the time.

**SAT 00:30 Top of the Pops (m0005wwk)**

Mike Read and Simon Bates present the pop chart programme, first broadcast on 7 January 1988 and featuring Sinitta, Jellybean, Depeche Mode, George Michael, Terence Trent D'Arby, GOSH, The Stranglers, Pet Shop Boys and Joyce Sims.

**SAT 01:00 Horizon (b039grrx)**  
[Repeat of broadcast at 20:00 today]

**SAT 02:00 Natural World (b03dzjx5)**  
[Repeat of broadcast at 19:00 today]

**SAT 03:00 Britain's Lost Masterpieces (b0bg5t91)**  
Series 3

Devon

In Knightshayes Court Devon the team are examining a work that is a copy of a Rembrandt. But, might it be the real thing, a genuine self-portrait?

Bendor discovers a small portrait of Rembrandt in the

collection of a National Trust house, Knightshayes Court in Tiverton, Devon. The painting is thought to be a later copy of a self-portrait by Rembrandt now in the Rijksmuseum in Amsterdam, but Bendor believes it is in fact a study for the finished picture by Rembrandt himself. There is a third version in a collection in Germany that was always thought to be the original until the Amsterdam version was found in a Glasgow attic in 1959.

The picture is sent to be restored and have a later background overpaint removed while Bendor sets out to see all three versions and in the process visits the world-expert on Rembrandt, Ernst van de Wetering, in Amsterdam. But Ernst is not persuaded by the painting. Bendor decides to try and use scientific investigation to prove the portrait is not a later copy.

Emma explores the history of the house and its eccentric opium smoking Victorian Gothic architect, William Burges. She investigates the history of the lace factory in the town of Tiverton on which the family fortune was based, and tries her hand at golf, as the last family member in the house was British Ladies Golf Champion five times in the 1920s.

**SUNDAY 16 JUNE 2019**

**SUN 19:00 Engineering Giants (b011w71)**  
Jumbo Jet Strip-Down

Engineer turned comedian Tom Wrigglesworth and rising star of mechanical engineering Rob Bell climb on board Victor X-ray, a 200-ton, £200 million Boeing 747. This jumbo jet has flown over 36 million miles in its 14-year life with British Airways. Now it will be broken into tens of thousands of parts in the airline's maintenance hangar in Cardiff, before being painstakingly reassembled and certified fit to fly again. This is the first time this complex process has ever been filmed and it provides fascinating insights into just how a 747 works.

Rob and Tom also visit the UK's largest plane salvage centre in the Cotswolds to discover what happens to a 747 when it reaches the end of its working life, and discover how valuable parts are stripped for resale before the carcass is torn apart to be recycled.

**SUN 20:00 Inside Chernobyl's Mega Tomb (b08650s6)**

Documentary which follows the construction of a trailblazing 36,000-tonne steel structure to entomb the ruins of the nuclear power plant destroyed in the 1986 Chernobyl disaster. It films close up with the team of international engineers as they race to build the new structure before Chernobyl's original concrete sarcophagus - the hastily built structure that covers the reactor - collapses.

Built to last just 30 years, the temporary sarcophagus is now crumbling, putting the world at risk of another release of radioactive dust. Radiation levels make it impossible for workers to build the new shelter directly over the old reactor, so engineers are erecting the new megastructure - taller than the tower of Big Ben and three times heavier than the Eiffel Tower - to one side and will then face the challenge of sliding the largest object ever moved on land into place over the old reactor.

**SUN 21:00 BBC Cardiff Singer of the World (m00062dr)**  
2019

Main Prize Round 1

The world's most prestigious opera singing competition returns to St David's Hall in Cardiff as 20 singers compete to become the next BBC Cardiff Singer of the World. Petroc Trelawny and Josie d'Arby present full coverage of this year's competition. For Round 1, they are joined by acclaimed mezzo-soprano Katarina Karnéus, winner of this competition in 1995, as their special guest.

In this opening round, singers from the USA, Russia, China, Australia and New Zealand compete for a place in the Grand Final. To succeed, they need to impress a panel made up of leading opera figures: José Cura, Wasfi Kani, Dame Felicity Lott, Frederica von Stade and Chair of the Jury, David Pountney.

With music by Rossini, Mozart, Handel and Stravinsky, the singers are accompanied by the Welsh National Opera Orchestra conducted by Ariane Matiakh.

**SUN 23:00 Discovering... (m00062dv)**  
Series 1

Graal Théâtre - Kaija Saariaho

Tom Service presents a detailed analysis of Finnish composer Kaija Saariaho's Graal Théâtre followed by a performance of

the work by the BBC Philharmonic Orchestra conducted by Ludovic Morlot.

Contemporary composer Kaija Saariaho wrote Graal Théâtre in 1994. A haunting, explosive violin concerto, it has become one of the Finnish composer's most frequently performed pieces. Before the piece is performed in full by the BBC Philharmonic Orchestra in the MediaCity Studio in Salford, Tom Service speaks both to members of the orchestra and to Peter Herresthal, the soloist, about this relentlessly electrifying and technically demanding music. Peter demonstrates the techniques involved in producing the crunching strings and distorted effects demanded by the score. We learn how Saariaho, herself a violinist, crafted the work to reflect her own tempestuous relationship with the instrument.

Speaking to other members of the orchestra, Tom sees how Saariaho uses the entire ensemble to create a range of different colours building up to dazzling textures. The extremes of Saariaho's score see the orchestra interacting both in harmony and in conflict with one another.

Loosely based on medieval tales from Arthurian legend, we explore the importance of these stories to the structure of Saariaho's piece. Tom also learns of the composer's tutelage at the French institution IRCAM, an underground labyrinth of electronic and electro-acoustic experimentation beneath the Pompidou Centre in Paris, founded by French composer Pierre Boulez. Saariaho's time at IRCAM profoundly shaped the unique electronic, symphonic style found in this astonishing work.

**SUN 00:00 Anjelica Huston on James Joyce: A Shout in the Street (b09mb966)**

James Joyce led an eventful and turbulent life. From the beginning, he was something of an outsider. His childhood was impoverished and chaotic. Nonetheless, his alcoholic father ensured that he was educated at Ireland's elite schools. From an early age, Joyce revealed an impulse to rebel against social conventions. He not only rejected the Catholic religion, but, in his own words, 'declared open war on the Catholic church by all that I write and say and do'. He was a brilliant student - winning numerous scholarships and awards - and he was also sexually precocious, frequenting Dublin's prostitutes while still very young.

Then, on 16 June 1904, he became intimate with a young chambermaid from Galway called Nora Barnacle. That date would become the day on which he set all the action of his great novel, Ulysses. Nora became his lifelong partner, and they spent the rest of their lives outside Ireland. For many years, they lived in miserable conditions, but Joyce was ready to sacrifice himself - and others when necessary - to further his artistic ambitions. Eventually, he won worldwide literary celebrity, but he continued to live in some chaos, subject to recurrent eye complaints and other serious illnesses.

When the Nazis invaded France, he was concerned for the safety of his grandson Stephen, who was half-Jewish. Eventually, he managed to find sanctuary in Switzerland, but he died just a few weeks after he and his family had arrived there. Since then, his fame has grown, and he is now recognised as a towering figure in world literature, with Ulysses often cited as the most influential work of fiction of the twentieth century.

The story of Joyce's life and work is presented by the celebrated Oscar-winning actress, Anjelica Huston. She grew up in the west of Ireland, and has had a close association with Joyce's work for many years. She delivered an acclaimed stage performance of Molly Bloom's famous soliloquy from Ulysses some years ago, and also played the lead female role in the final movie made by her father, legendary director John Huston. This was an adaptation of Joyce's most famous short story, The Dead, generally reckoned to be one of the finest short stories ever written in the English language. Anjelica has said that, when she first read The Dead, it 'spoke to her soul', and her performance in her father's film is little short of sublime. The Dead is widely regarded as the most successful - and most authentic - adaptation of Joyce's work. However, it was filmed on a sound stage in downtown Los Angeles.

Anjelica brings a passionate understanding of the humanity, courage and consummate artistry of Joyce's writing. In this documentary, she is joined by other leading writers - such as Man Booker Prize winner Anne Enright and David Simon, the writer of groundbreaking TV series The Wire - as she explores Joyce's work, and seeks to explain its universal appeal. Other contributors include Colm Toibin, Dominic West, Ruth Gilligan, Fintan O'Toole, Edna O'Brien, Frank McGuinness, Jeffrey Eugenides and Elnear McBride.

**SUN 01:00 Treasures of Ancient Greece (b05rj5xj)**  
The Long Shadow

Alastair Sooke explores the extraordinary afterlife of the Greek masterpieces that changed the course of western culture. Succeeding centuries have found in ancient Greek art

inspiration for their own ideals and ambitions. Filming in Italy, Germany, France and Britain, Alastair's investigation includes The Venus of Knidos, the first naked woman in western art, the bronze horses of St Mark's in Venice which became a pawn in an imperial game and the naked discus thrower, the Discobolus, personally bought by Adolf Hitler and used by him as a symbol of Aryan supremacy.

**SUN 02:00 Forest, Field & Sky: Art out of Nature (b079ckkf)**

Dr James Fox takes a journey through six different landscapes across Britain, meeting artists whose work explores our relationship to the natural world. From Andy Goldsworthy's beautiful stone sculptures to James Turrell's extraordinary sky spaces, this is a film about art made out of nature itself. Featuring spectacular images of landscape and art, James travels from the furthest reaches of the Scottish coast and the farmlands of Cumbria to woods of north Wales. In each location he marvels at how artists' interactions with the landscape have created a very different kind of modern art - and make us look again at the world around us.

**SUN 03:00 Engineering Giants (b011lw71)**  
[Repeat of broadcast at 19:00 today]

**MONDAY 17 JUNE 2019**

**MON 19:00 Beyond 100 Days (m00062dx)**  
Series 1

17/06/2019

Katty Kay in Washington and Christian Fraser in London report on the events that are shaping the world.

**MON 19:30 Wild (b00jd9yx)**  
Scotland

Otters, Puffins and Seals

Wildlife cameraman Gordon Buchanan explores his native Mull and some of the nearby islands, filming otters, deer, puffins, seals and a minke whale.

**MON 19:45 FIFA Women's World Cup (m00062dz)**  
2019

Nigeria v France

Group A reaches its conclusion as Nigeria and France meet in Rennes. The hosts will be looking to top the group and give themselves an easier route to the final in Lyon.

**MON 22:05 The Alan Clark Diaries (b0074pzb)**  
Into the Wilderness

Dramatisation of the colourful memoirs of the late Conservative MP. In the grip of a hopeless affair, Clark is lovesick and his relationship with Jane is crumbling under the strain. Convinced that his political career is also on the descent, he must decide whether to stay or to go.

**MON 22:35 The Alan Clark Diaries (b0074pzy)**  
Leaving Home

Dramatisation of the colourful memoirs of the late Conservative MP. Revelations of Clark's affairs with the Harknesses have hit the tabloid headlines and the media are in a frenzy. Clark yearns to return to the cut and thrust of Parliament, but with his political reputation and health in steady decline, can he realise his dream?

**MON 23:05 Colour: The Spectrum of Science (p02vmx6x)**  
Colours of Earth

We live in a world ablaze with colour. Rainbows and rainforests, oceans and humanity, Earth is the most colourful place we know of. But the colours we see are far more complex and fascinating than they appear. In this series, Dr Helen Czerski uncovers what colour is, how it works, and how it has written the story of our planet - from the colours that transformed a dull ball of rock into a vivid jewel to the colours that life has used to survive and thrive. But the story doesn't end there - there are also the colours that we can't see, the ones that lie beyond the rainbow. Each one has a fascinating story to tell.

In the first episode, Helen seeks out the colours that turned planet Earth multicoloured. To investigate the essence of sunlight Helen travels to California to visit the largest solar telescope in the world. She discovers how the most vivid blue is

formed from sulphur atoms deep within the Earth's crust and why the presence of red ochre is a key sign of life. In gold, she discovers why this most precious of metals shouldn't even exist on the surface of the planet and in white, Helen travels to one of the hottest places on Earth to explore the role salt and water played in shaping planet Earth.

**MON 00:05 Tales from the National Parks (b016dr0x)**  
The Lake District

The National Parks are Britain's most treasured landscapes, but they are increasingly becoming battlefields. They were designated 60 years ago as places for everyone, but is that still the case? In this series the award-winning film-maker Richard Macer spent a year amid conflicts in three different parks, on a journey to discover who they are really for.

In each park the stories are very different, but there is something that unites them all - fiercely divided communities who are prepared to fight in order to preserve their right to enjoy the countryside. In each film, Macer has secured access to the National Park Authority - an organisation which looks after the landscapes and decides upon planning matters. In all of these stories the Park Authorities have a key role to play in trying to find amicable solutions to the problems which confront them.

In the Lake District, entrepreneur Mark Weir wants to build a giant zip-wire ride from the top of a beautiful, remote mountain. But does it have any chance of getting permission when there are over 400 objectors to it? Unfortunately a tragic accident during filming means that Mark will never see if his zip-wire becomes a reality.

**MON 01:05 Pacific Abyss (b00d98rp)**  
Episode 3

Underwater wildlife series in which Kate Humble sets sail on a 2,000 mile adventure across the Pacific with a team of top natural history filmmakers and deep water marine biologists.

As the expedition team near the end of their journey across Micronesia, it's a race against time for the extreme deep divers as they continue their search for new species.

As Kate Humble explores the Rock Islands of Palau, Mike DeGruy embarks on a unique training programme. The Newsuit is an incredible feat of submarine engineering - a bright yellow one-man submersible that Mike has to master before he can venture even deeper into the Pacific abyss.

**MON 02:05 Handmade in Mexico (b09hqmcf)**  
Series 1

Huipil

A huipil is a loose-fitting tunic, generally made from two or three rectangular pieces of fabric which are then joined together with stitching, ribbons or fabric strips, with an opening for the head and, if the sides are sewn, openings for the arms. Tehuana dresses are crafted by Zapotec women who live in a matriarchal culture. They elaborately embroider very elegant dresses made of velvet or silk, which they wear at religious ceremonies and fiestas. These dresses were famously worn by Frida Kahlo. The huipiles originate from crafts developed to meet very utilitarian needs, but became more decorative as time went on and now they are regarded as objects of status.

**MON 02:35 A Timewatch Guide (b08zn5dg)**  
Series 4

Explorers: Conquest and Calamity

For centuries the story of exploration has been packed with incredible tales of adventure, but the last fifty years has seen a dramatic shift in our attitude towards explorers.

To find out how television has reflected this, Prof Fara Dabhoiwala delves into the BBC television archives, revealing that the pace of this change was faster than you would imagine. In the 1960s the BBC was still making programmes showing Christopher Columbus as an uncomplicated conquering hero. Barely a decade later, it made a documentary that delved into museum storerooms packed with artefacts brought back to Britain by Captain Cook, focusing on the perspective of the explored rather than the explorer.

As the story of exploration became as much about social calamity as conquest, television has been forced to find new ways to portray explorers. By the 21st century this included everything from focusing on adventurers like Ernest Shackleton, famous not for conquest but for saving the lives of his men, to using new technology to demystify exploration by making programmes from material shot by the explorers themselves.

**TUESDAY 18 JUNE 2019**

**TUE 19:00 Beyond 100 Days (m00062f4)**  
Series 1

18/06/2019

Katty Kay in Washington and Christian Fraser in London report on the events that are shaping the world.

**TUE 19:30 Horizon (b08ry919)**  
2018

Volcanoes of the Solar System

Volcanoes have long helped shape the Earth. But what is less well known is that there are volcanoes on other planets and moons that are even more extraordinary than those on our own home planet. Horizon follows an international team of volcanologists in Iceland as they draw fascinating parallels between the volcanoes on Earth and those elsewhere in the solar system. Through the team's research, we discover that the largest volcano in the solar system - Olympus Mons on Mars - has been formed in a similar way to those of Iceland, how a small moon of Jupiter - Io - has the most violent eruptions anywhere, and that a moon of Saturn called Enceladus erupts icy geysers from a hidden ocean. Computer graphics combined with original Nasa material reveal the spectacular sights of these amazing volcanoes.

Along the way, we learn that volcanoes are not just a destructive force, but have been essential to the formation of atmospheres and even life. And through these volcanoes of the solar system, scientists have discovered far more about our own planet - what it was like when Earth first formed, and even what will happen to our planet in the future.

**TUE 19:45 FIFA Women's World Cup (m00062f8)**  
2019

Italy v Brazil

Italy and Brazil meet in Valenciennes as a wide-open Group C reaches its conclusion. Can the brilliant Marta inspire Brazil to victory or will the Italians pull off a surprise victory?

**TUE 22:05 BBC Cardiff Singer of the World (m0006494)**  
2019

Round 3

The search continues for the world's next opera star as five more young singers compete to be BBC Cardiff Singer of the World.

Petroc Trelawny and Josie D'Arby are at St David's Hall in Cardiff to guide us through the performances by singers from Argentina, South Africa, England, Ukraine and Russia. Welsh tenor Jeffrey Lloyd-Roberts is on hand to give his insight on the night's performances.

The Welsh National Opera Orchestra is led by the French conductor Ariane Matiakh.

**TUE 00:05 Ice Age Giants (p018cc8p)**  
Land of the Cave-Bear

Professor Alice Roberts journeys 40,000 years back in time on the trail of the great beasts of the Ice Age. Drawing on the latest scientific detective work and a dash of graphic wizardry, Alice brings the Ice Age giants back to life.

In this episode, Alice ventures to the parts of the northern hemisphere hit hardest by the cold - Europe and Siberia.

High in the mountains of Transylvania, a cave sealed for thousands of years reveals grisly evidence for a fight to the death between two starving giants, a cave bear and a cave lion. These animals, which would dwarf their modern-day relatives, were probably driven into conflict by the pressure on food supplies as the Ice Age gathered pace.

Yet Alice discovers that, for woolly rhinos and woolly mammoths, the Ice Age created a bounty. The Mammoth Steppe, a vast tract of land which went halfway round the world, provided food all year round for those that liked the cold. It was these mammoths that Europe's most dangerous predators - Neanderthals and our own ancestors - hunted for their survival.

**TUE 01:05 Horizon (b081j2zr)**  
2017

Antarctica - Ice Station Rescue

Britain's state-of-the-art Antarctic research base Halley VI is in trouble. Built on the Brunt Ice Shelf, it sits atop a massive slab of ice that extends far beyond the Antarctic shoreline. But the ice is breaking apart and just 6km from the station is a ginormous crevasse, which threatens to separate Halley from the rest of the continent, setting the £28 million base adrift on a massive iceberg.

So Halley needs to move. But this is probably the toughest moving job on earth, and the team of 90 who have been tasked with the mission aren't just architectural or engineering experts. They are plumbers, mechanics and farmers from across the UK and beyond - ordinary men and women on an extraordinary adventure. Their practical skills will be what makes or breaks this move. The rescue mission has one thing in its favour: Halley was built on giant skis that mean it can be moved - in theory. But no-one has actually done it before. Embedded with the team, BBC film-maker Natalie Hewit spent three months living on the ice, following these everyday heroes as they battle in the most extreme environment on earth to move this vital polar research station.

**TUE 02:05 Handmade in Mexico (b09j2vvr)**  
Series 1

Tree of Life

The Tree of Life is a clay sculpture originally intended to teach Bible stories to indigenous people. Overall, the tree sculpture looks something like a candelabra, and traditionally consists of biblical images and narratives, such as Adam and Eve being expelled from the Garden of Eden. Tree of Life sculpture is emblematic of Puebla State, where it began. Some modern designs - always brightly painted - sometimes include secular or fantastical imagery.

**TUE 02:35 Tones, Drones and Arpeggios: The Magic of Minimalism (b09twd7y)**  
Series 1

New York

In this episode Charles Hazlewood meets the genre's superstars Philip Glass and Steve Reich.

Across the 1960s these New Yorkers added new orchestral dimensions to compositions based on repetition, transcendence and new technology, and broke into the mainstream in the following decade. Charles explores how breakthrough techniques Reich first explored on tape were transposed for orchestral performance. Glass's experiments with repetitive structures, along with his innovative work in opera - Einstein on the Beach - revealed new possibilities for classical music.

The episode includes excerpts from minimalist pieces, including Reich's Variations for Winds, Strings and Keyboards performed by the Army of Generals orchestra. Charles Hazlewood's All Stars Collective performs part of Mike Oldfield's minimalist-inspired Tubular Bells.

The key attributes of minimalism, its reliance on repetition, its mesmerizing transcendent qualities and innovative use of technology are also discussed with broadcaster and writer Tom Service; director of music at the Southbank Centre, Gillian Moore; composers Laurie Spiegel, Nico Muhly, Julia Wolfe, Max Richter and Bryce Dessner; and musicians Jarvis Cocker and Adrian Utley.

**WEDNESDAY 19 JUNE 2019**

**WED 19:00 Beyond 100 Days (m00062f5)**  
Series 1

19/06/2019

Katty Kay in Washington and Christian Fraser in London report on the events that are shaping the world.

**WED 19:30 FIFA Women's World Cup (m00062f9)**  
2019

Scotland v Argentina

Eilidh Barbour presents all the action from Paris as Scotland meet Argentina in their final Group D match. After being the underdogs against England and Japan, Scotland will be favourites to get past Argentina, who they meet for the first time.

**WED 22:05 BBC Cardiff Singer of the World (m0006490)**  
2019

Round 4

It's the fourth and last qualifying round in the world's greatest opera singing competition. Singers from Portugal, South Korea, Russia, Mexico and for the first time, Guatemala, compete for a place in the final.

As well as tonight's winner we find out the identity of the judges' wildcard selection who will complete Saturday's line-up and there are details on how you can vote in this year's Audience Prize.

Josie D'Arby and Petroc Trelawny present from St David's Hall, Cardiff, with expert analysis from top Canadian baritone Gerald Finley.

The BBC National Orchestra of Wales is conducted by Ewa Strusinska.

**WED 00:05 Andrew Marr's Great Scots: The Writers Who Shaped a Nation (b04gqtkk)**  
Hugh MacDiarmid

Andrew Marr looks into the life of Scotland's most bothersome poet, Hugh MacDiarmid. MacDiarmid reinvented Scots as a language for serious writing, at various times called for a Scottish fascism, tried to create an independent Scottish communist utopia, and was under surveillance by MI5 for many years. During his life he was involved in plots to capture Edinburgh Castle and steal the Stone of Destiny, but he also found time for a literary life in which he would write the most powerful poetry in Scots since the days of Robert Burns and to start a Scottish renaissance that goes on to this day.

**WED 01:05 Utopia: In Search of the Dream (b091gx74)**  
Series 1

Build It and They Will Come

Utopia has been imagined in a thousand different ways. Yet when people try to build utopia, they struggle and very often fail. Art historian professor Richard Clay asks whether utopian visions for living can ever reconcile the tension between the group and the individual, the rules and the desire to break free.

Travelling to America, he encounters experimental communities, searching for greater meaning in life. Richard visits a former Shaker village in New Hampshire and immerses himself for a day at the Twin Oaks eco-commune in Virginia, where residents share everything, even clothes. He looks back at the grand urban plans for the masses of the 20th-century utopian ideologies, from the New Deal housing projects of downtown Chicago to the concrete sprawl of a Soviet-era housing estate in Vilnius, Lithuania. He also meets utopian architects with a continuing faith that humanity's lot can be improved by better design. Interviewees include architect Norman Foster and designer Shoji Sadao.

**WED 02:05 Handmade in Mexico (b09jj0k2)**  
Series 1

Alebrijes

Alebrijes are brightly coloured, fantastical creatures, carved from copal wood and decorated in extremely detailed paintwork. Different animals and their characteristics are associated with different birth dates, and the patterns are full of symbols and meaning. Consequently, the sculpture contains often complex and personal narratives.

**WED 02:35 Madagascar (b00ytrmr)**  
Lost Worlds

David Attenborough tells the story of one of the most intriguing wild places on earth: Madagascar, the huge island of dramatic landscapes, where the wildlife is strange and unique, some of it having been filmed for the very first time.

In this episode, we travel deep into Madagascar's most luxuriant landscape: the rainforests that cloak the island's eastern mountains. Remote and mysterious, this little-known region of towering peaks and precipitous escarpments is home to over half of all Madagascar's unique species.

Narrated by David Attenborough, this second episode showcases an amazing collection of wildlife, many of which have never been filmed before. Cyanide-eating lemurs, cannibalistic frogs, meat-eating plants, cryptic leaf-tailed geckos, tadpole-eating wasps, tunnel-digging chameleons and house-proud flycatchers are just some of the weird and wonderful wildlife featured.

Along this coast, every cliff and valley is like a lost world where nature has run riot. Amongst the boulders of the Andringitra Highlands, a few hardy troops of ringtailed lemurs make their home. To fight the sub-zero cold, they have developed thick coats and can only survive the freezing nights by huddling

together in rocky crevices. In this high 'desert', they must eat cacti for moisture.

Descend just a few hundred metres and it's a very different world, where dense forests are permanently shrouded in clouds. The Marojejy Massif is the last sanctuary of one of Madagascar's rarest lemurs, the elusive, ghostly white silky sifaka. There are thought to be only two hundred of these playful and endearing creatures left on earth.

Lower again are the lush rainforests of Ranomafana, where thickets of bamboo hide one of Madagascar's most remarkable animals, the golden bamboo lemur, only discovered recently. It's incredibly specialised, eating just one species of bamboo, a plant loaded with highly toxic cyanide. No one knows how they can survive consuming lethal doses of this poison.

**THURSDAY 20 JUNE 2019**

**THU 19:00 Beyond 100 Days (m00062g2)**  
Series 1

20/06/2019

Katty Kay in Washington and Christian Fraser in London report on the events that are shaping the world.

**THU 19:30 Nature's Weirdest Events (b06k4c07)**  
Series 2: Cutdowns

Episode 1

Documentary series exploring bizarre and extraordinary natural events. Using footage taken by eyewitnesses and first-hand accounts, presenter Chris Packham reveals how these fantastic events occur.

**THU 19:45 FIFA Women's World Cup (m00062g7)**  
2019

Sweden v USA

The group stage reaches its conclusion in Le Havre with the heavyweight meeting between Sweden and USA. Eilidh Barbour presents all the action in the race for top spot in Group F.

**THU 22:05 BBC Cardiff Singer of the World (m00062gb)**  
2019

Song Prize Final

Petroc Trelawny and Josie d'Arby host the first of two finals taking place in Cardiff this week. The Song Prize was first won by legendary Welsh baritone Bryn Terfel when it was introduced thirty years ago in 1989. For this final, the orchestra has been replaced by a piano as five singers aim to impress the expert panel of judges in the intimate and demanding discipline of 'art song' or lied. On hand to discuss their performances is Welsh bass-baritone Neal Davies who won the prize in 1991 and leading vocal coach Mary King.

**THU 00:05 The Culture Show (b047pklp)**  
The Battle for Stonehenge: A Culture Show Special

Stonehenge is our most famous prehistoric monument; a powerful symbol of Britain across the globe. But all is not well with the sacred stones. MPs have described the surrounding site as a 'national disgrace' and 'shameful shambles'.

Now, after decades of disputes over what should be done, English Heritage has just 12 months to create a setting that this unique monument deserves. But Stonehenge is more than a tourist attraction; it is also a temple.

In this hour-long Culture Show special, Alastair Sooke shows that Stonehenge has long been a place of conflict and controversy, and that passions still run high at the monument where druids, archaeologists and scientists all battle for the soul of Stonehenge.

**THU 01:05 Peaky Blinders (p01fj94w)**  
Series 1

Episode 1

Birmingham, 1919. Thomas Shelby controls the Peaky Blinders, one of the city's most feared criminal organisations, but his ambitions go beyond running the streets.

When a crate of guns goes missing, Thomas recognises an opportunity to move up in the world.

**THU 02:00 Peaky Blinders (b03bgw2m)**

Series 1

Episode 2

Birmingham, 1919. Thomas Shelby controls the Peaky Blinders, one of the city's most feared criminal organisations, but his ambitions go beyond running the streets.

Thomas fixes a horse race, provoking the ire of local kingpin Billy Kimber. He also starts a war with gypsy family the Lees. Meanwhile, Inspector Campbell carries out a vicious raid of Small Heath in search of the stolen guns.

**THU 03:00 Peaky Blinders (b03bsw9p)**

Series 1

Episode 3

Thomas Shelby plans to go to Cheltenham races in order to get closer to Billy Kimber. Knowing the gangster's appetite for beautiful women, Thomas invites Grace to accompany him.

Meanwhile some IRA sympathisers approach Thomas with an offer to buy the stolen guns.

**FRIDAY 21 JUNE 2019****FRI 19:00 World News Today (m00062g1)**

The latest national and international news, exploring the day's events from a global perspective.

**FRI 19:30 Top of the Pops (m00062g5)**

Simon Mayo and Gary Davies present the pop chart programme, first broadcast on 14 January 1988 and featuring Climie Fisher, Tiffany, Krush, Morris Minor and the Majors, The Christians, AC/DC, Terence Trent D'Arby, Belinda Carlisle and George Michael.

**FRI 20:00 Elvis: That's Alright Mama 60 Years On (b04c317g)**

Actor and musician Sam Palladio hosts a musical tribute to Elvis Presley, 60 years to the day from when he recorded his first single, That's All Right, at Sun Studio in Memphis on 5 July 1954. Sam traces Elvis's story from childhood poverty in Mississippi, where he had to make do with a broom for a guitar, to the moment when, by accident, he ended up recording the song that changed the history of popular music. There are performances of the finest Elvis tracks from the likes of soul legend Candi Staton, LA duo The Pierces and country star Laura Bell Bundy.

**FRI 21:00 I Can Go for That: The Smooth World of Yacht Rock (m00062g8)**

Series 1

Episode 2

Katie Puckrik concludes her voyage through a golden era of Los Angeles studio crafted sounds. In this episode she charts the progress of Yacht Rock through the 1980s, when it became the soundtrack to America in the Reagan era, and when artists like Toto, Hall & Oates and George Benson created a technicolour second wave of a super smooth sound.

In its day, this music was not identified as a genre, but in the 21st century, in a nod to its finely crafted nature, it has come to be known as Yacht Rock. In the MTV 80s, the bearded sensitivity that had defined the Yacht sound in the previous decade was out and, instead, bigger sounds with bombastic videos were in. Hall & Oates stepped up to the challenges of the video age with hits such as I Can't Go For That and Private Eyes.

The gleaming Yacht sound was, in part, always defined by a group of LA-based session players and composers who worked across a range of Yacht bands, informing their specific tone and level of musicianship. Yacht session supremos Jay Graydon and Steve Porcaro reveal how they worked with George Benson, making a surprising addition to the Yacht cannon with Turn Your Love Around.

Meanwhile, Porcaro joined other LA session players to form Toto whose tracks Rosanna and Africa were two mega-hits of the early 80s. Toto's Steve Lukather and Steve Porcaro also reveal how they even brought a little Yacht magic to the biggest-selling album in history, Michael Jackson's Thriller, when the latter wrote the song Human Nature for the album.

Meanwhile, actor and writer JD Ryznar takes credit for inventing the Yacht badge, when he penned a satirical online drama referencing the key protagonists of Yacht. This affectionate spoof contributed to a revival of interest and enthusiasm for these mainstream sounds in the digital era and

Katy's reappraisal puts the brilliance of this group of musicians firmly back in the spotlight. Other contributors include Robbie Dupree and John Oates.

**FRI 22:00 BBC Cardiff Singer of the World (m0006493)**  
2019

Round 2

Welsh mezzo soprano Angharad Lyddon from Wrexham represents the host nation, taking on singers from Brazil, South Korea, the USA and Ukraine in round two of BBC Cardiff Singer of the World.

Petec Trelawny and Josie d'Arby present from the stage of St David's Hall in Cardiff and Welsh opera legend Rebecca Evans casts an expert eye over the evening's singing. Enjoy the whole concert in full, with singers accompanied by the BBC National Orchestra of Wales conducted by Ewa Strusinska.

**FRI 00:00 TOTP2 (b01by968)**

[Repeat of broadcast at 00:00 on Saturday]

**FRI 00:30 Top of the Pops (m00062g5)**

[Repeat of broadcast at 19:30 today]

**FRI 01:00 Peaky Blinders (b03c58wp)**

Series 1

Episode 4

Thomas Shelby's war with the Lee family of gypsies escalates and Campbell puts further pressure on him to deliver the stolen guns. Meanwhile, Thomas's brother John plans to marry a former prostitute, but Thomas suspects that she's still on the game.

**FRI 02:00 Peaky Blinders (b03cntw3)**

Series 1

Episode 5

Thomas Shelby has to deal with an IRA chief who has come to Small Heath to avenge his cousin's death. Meanwhile, Campbell gets closer to the stolen guns, and Grace has to decide whether her loyalties lie with him or with Thomas.

**FRI 03:00 Peaky Blinders (b03dwq3x)**

Series 1

Episode 6

As Thomas Shelby prepares to oust Billy Kimber, hidden secrets are revealed and the family have to face up to the problems that have divided them. Meanwhile, Campbell, obsessed with taking down the Peaky Blinders, unleashes one last plan to destroy them.