

Cosmic Threads



WE NEED A MIRACLE TO SAVE US 14 DECEMBER 1945

Contents

Introduction	1
How it began – by Anne Kelly	2
A message from Dr Isabella Rosner	3
Panel locations	4
Makers listing	9
Makers	12

Introduction

To celebrate Jodrell Bank’s 80th anniversary, we turned to textiles—an art form whose capacity for storytelling, reflection, and shared creativity resonates in surprising ways with the history of astronomy.

The spark for Cosmic Threads came in 2025, when we hosted the Royal Astronomical Society’s (RAS) Bicentennial Quilt here at the Jodrell Bank Centre for Engagement. Created to mark the RAS’s 200th anniversary, that quilt brought together hundreds of hand-stitched panels from contributors around the world, each expressing a personal connection to the cosmos.

Experiencing the RAS Quilt in our own galleries revealed something profound: embroidery and astronomy share a long tradition of inviting people to imagine the universe for themselves. The quilt demonstrated how craft can make scientific ideas tangible, intimate, and emotionally resonant—how a collection of small, individual squares can become a powerful collective portrait of curiosity and wonder.

Inspired by the response to that exhibition, and by the deep sense of connection visitors expressed while

viewing it, we began to ask: What stories might our own community tell about Jodrell Bank? How might textiles capture the legacy, discoveries, and inspirations born at this extraordinary place?

From those questions, Cosmic Threads was born. We launched an open call for textile artworks that reflect the many ways Jodrell Bank has shaped lives and imaginations over eight decades. Contributors were invited to explore anything from personal encounters with the site and memories of the Lovell Telescope, to interpretations of our research, heritage, and wider cultural significance.

The resulting panels—created by participants locally, nationally, and internationally—were brought together by renowned textile artist Anne Kelly, whose practice is celebrated for its rich narrative style and for championing community voices through stitched and layered imagery. Her ability to weave individual

contributions into cohesive, story-driven works makes her an ideal collaborator for this anniversary project.

Together, these pieces form a vibrant, multi-piece textile installation that honours Jodrell Bank not only as a centre of scientific discovery, but as a place that people feel part of: a landmark of childhood visits, a beacon of innovation, a source of inspiration, and a symbol of humanity’s ongoing dialogue with the universe.

Cosmic Threads stands as a new collective artwork for our 80th anniversary: a creative tribute to the curiosity, collaboration, and cosmic imagination that have defined Jodrell Bank since 1945. And, like the RAS Quilt that inspired it, it celebrates something enduring—how we stitch our own stories into the vastness of space.

How it began

I was approached by the team at Jodrell Bank Centre for Engagement earlier this year to propose a piece commemorating the Observatory's 80th anniversary. Alongside my design—reflecting the site's past, present, and future—I aimed to involve the local community, and together we created a home-based project built around four themes for a 23 × 23 cm square: Waves of Discovery, The Cosmic Connection, Wonder and Curiosity, and Signal from the Stars.

Alongside this, I completed the commemorative artwork, a combination of machine embroidery and hand stitching measuring roughly 150cm square.

Putting it all together

When confronted with 240 wonderful submissions, I must admit I felt a bit daunted. After looking through the work, some clear themes began to emerge: Radio Waves, the Lovell Telescope, Planets, Stars, Galaxies, and more.

Although our original aim had been to create a single quilt, the quality and quantity of submissions made that less achievable. My wish was to honour the squares and make them visible by grouping them thematically, while also considering their materials and techniques.

As I began sorting the pieces into themes, it became apparent that they would look great together and really complement one another. Once I had ten sets of twenty-four squares, I sewed them together in a quilt-top format—six strips of four squares—to create ten panels. These were then attached to an artist's canvas background, which had been hemmed and prepared for the squares.

What struck me most, once the panels were assembled, was how well each contribution supported the others and how clearly each could be seen. I would like to thank the Jodrell Bank team and all of the contributors for making this unique project happen.

I am delighted and honoured to have been commissioned to create this memorable piece and to work with the Jodrell Bank community.

Anne Kelly
November 2025



For millennia, we have looked up to the sky and stars, taken to our needles, and stitched.

For nearly as long as we have been sewing, embroidering, and quilting, humanity has chosen to illustrate the celestial world. The embroiderers of the Bayeux Tapestry depicted Halley's Comet soaring through the air in 1066, the first ever appearance of the comet in the visual record. Schoolgirls in the female academies of the seventeenth century regularly stitched smiling suns peeking out from behind bubbly clouds. In 1811 one anonymous schoolgirl made a sampler illustrating the solar system (Victoria and Albert Museum, T.92-1939), and in 1876 Ellen Harding Baker did the same in a quilt (National Museum of American History, 1983.0618.01). From embroidery like Palestinian tatreez to Norwegian Hardanger and in North American Star of Bethlehem quilts, needleworkers across continents and centuries have captured the wonder of the skies with needle and thread.

The Jodrell Bank quilt, Cosmic Threads, follows in this long lineage of turning astronomy into textile artistry. Like the Bayeux Tapestry and Ellen Harding Baker's quilt before it, Cosmic Threads has in each of its stitches a sense of wonder and awe. Constellations become chain stitches,

planets turn into pearls and beads, and satellites are sewn in a rainbow of colours. What is light years away and intangible becomes close, understandable, personal, warm, and tender. Though all 240 stitchers are bound by a shared theme of astronomy, each one reaches their own conclusions about how best to make manifest what can often only be seen through a telescope. No two slices of the sky are the same.

People have been making structures to connect to the sky for millennia, but a quilt is a particularly personal and soft conduit through which to connect the terrestrial and celestial. It is the meeting point of the cosmic and domestic, a historically predominantly female art form used to celebrate a traditionally mostly male science. And in the face of the complexity of astrophysics, needlework is accessible, requiring only the ability to thread a needle and pierce a piece of fabric. Like Jodrell Bank itself, Cosmic Threads brings the immensity of the universe down to earth, allowing us to stitch ourselves closer to the sky.

Dr Isabella Rosner

Curator of Textiles and Contextual Studies
Lecturer, Royal School of Needlework

Panel locations



1. Radio Waves



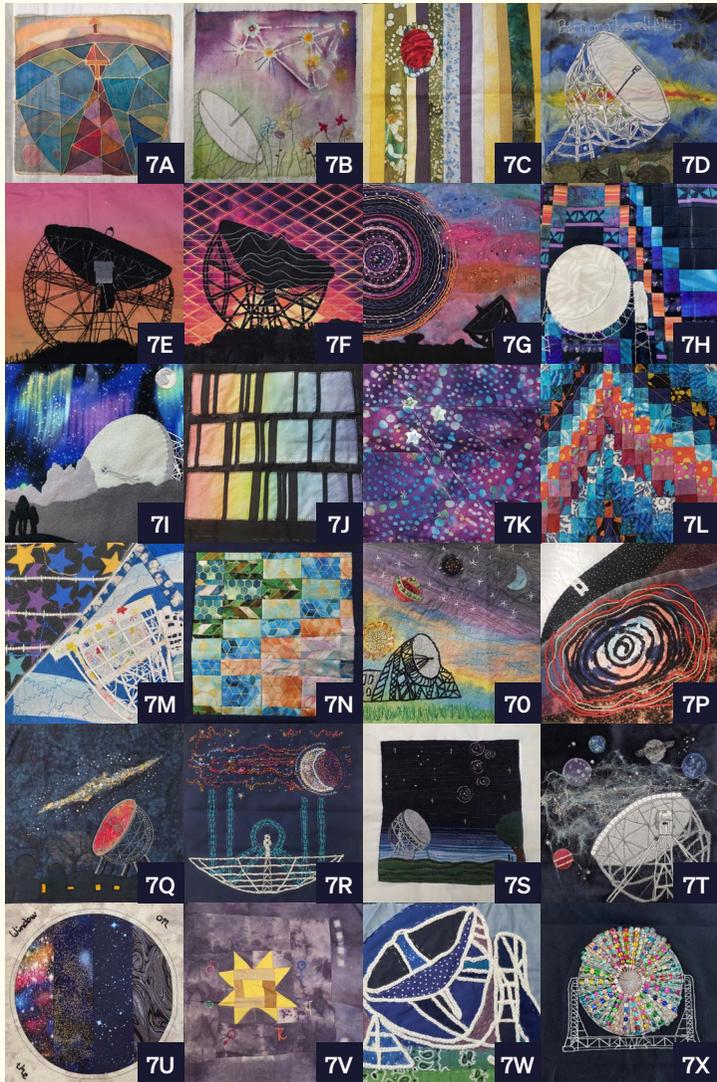
2. Cosmos (felt)



5. Stars



6. History



7. Telescope (rainbow)



8. Telecope 2



9. Origins 1



10. Origins 2

Makers

1. Radio Waves

1A Isaac Griffiths (age 7)

1B Sarah McAlister

1C Hillary Smith

1D Debbie Higham

1E Claire Dowling

1F Cozza

1G Anne Brooke

1H Anonymous

1I Sue Campayne

1J Teresa Anderson

1K Kay Hobbs

1L Claire Dowling

1M Jane Rogers

1N Jessica Peto

1O Hilary Edwards Malam

1P Gillian Jones

1Q Carlos Alberto P De Silva

1R Frances Passmore

1S Martha McKenna

1T Michelle Hughes

1U Julia Crook

1V Debbie Roycroft

1W Wendy Hale

1X Alke Groppe-Wegener

2. Cosmos (felt)

2A Janice Wellington

2B Jane Sinkingson

2C Sheila Conchie

2D Patty Callaghan

2E Ann Casson

2F Judith Callaghan

2G Francesca McArthur

2H Jackie Clark

2I Sara Rathbone

2J Cai Hin Kockavika

2K Linda Shuttleworth

2L Alex Irving-Bell

2M Jackie Clark

2N Lisa Gold

2O Rebecca Forster

2P Nicky Robertson

2Q Jane Woodlock

2R Liz Edwards

2S Jean Marsden

2T Janet Dugdale

2U Alex Bailey

2V Lucy Tomlington

2W Sophie Brandrick

2X Jane Glew

3. Cosmos (glitter)

3A Jessica Barton

3B Geraldine Yvonne Smith

3C Gruffud Youens (age 5)

3D Melanie Joy

3E Bernadette Grantham

3F Zoe Childs

3G Anna Brooks

3H Maria Lancashire

3I Siân Fay

3J Lee-Ann Paszник

3K Sue Moore

3L Anonymous

3M Sophie Dackomse

3N Hillary Smith

3O Patty Callaghan

3P Joy Nolan-Eikins

3Q Anne Kelly

3R Hilary Edwards Malam

3S Bee Ade

3T Chris Grant

3U Sarah Jane Ritchey

3V Hilary Edwards Malam

3W Liz Barraclough

3X Andrew Cox

4. Planets

4A Rosemary Leedham

4B Lyn Bailey

4C Ruth Turner

4D Norma Hasham

4E Margaret Lunn

4F Sue Briggs

4G Jane Clayton

4H Sylvia Deione

4I Debra Baker

4J Ellie Beharrell

4K Dolores Traynor

4L Barbara Brown

4M Grace McKenna

4N Laura Durham Turvey

4O Kathryn Byers

4P Gail Robinson

4Q Debi Jones

4R Jane Woodlock

4S Karen Glendining

4T Leila Anderson

4U Maggie Hollinghead

4V Dorial Brown

4W Jo Baird

4X Andrea Elsworth

5. Stars

5A Sirah Quyyom

5B Rita Knight

5C Kerry Tapp

5D Val Pye

5E Margaret Wilmore

5F Kerry Tapp

5G Kath White

5H Ian Davidson

5I Rita Hollington

5J Lawrence Menkinich

5K Connie Wheeler

5L Anne Carter

5M Susanna Lewis

5N Tabitha Jackson (age 7) &
Catherine Jackson

5O Julie Longbottom

5P Diana Irving

5Q Frances Fox

5R Rita Knight

5S Linda Ball

5T Sharon Coombes

5U Ayesha Heaton

5V Judith Dixon

5W Ruth Pollitt & Theodora Juana Hidalgo

5X Nadine Pennington

6. History

6A Caroline Laing

6B Ellen Wilson

6C Teresa Anderson

6D Heather Young

6E Mairi Byrne

6F Louise Dop

6G Deena Beverley

6H Juliana Gutierrez Ferreira

6I Cleo Dehaan

6J Julie Lawrence

6K Anne Menary

6L Hilary Morgan

6M Zurqa Rasul & Alia Yaqub

6N Sid Jackson (age 10)

6O Rita Hollington

6P Julia Riley

6Q Philip J Naylor

6R Philippa Holmes

6S Elizabeth Boast

6T Patricia Jones

6U Jessica Peto

6V Nicky Robertson

6W Helen Greenheld

6X Annie Hogan

7. Telescope (rainbow)

7A Phoebe Myers

7B Den Masset

7C Althea Walker

7D Amanda Rees Murry

7E Janet Gillespie

7F Karen Burrage

7G Megan Crooks

7H Helen Hamilton

7I Laura Barker

7J Elizabeth Boast

7K Jean Gladwin

7L Frances Singleton

7M Nikki J Wragg

7N Eileen N Thompson

7O Chris Adley

7P Jane Woodlock

7Q Val Copestake

7R Denise Dent

7S Katy Goodyer

7T Ann Robertson

7U Sue Miller

7V Kate Greatorex

7W Gemma Muney

7X Linda Dulieu

8. Telecope 2

8A Katherine Francis

8B Teresa Anderson

8C Lynda Youd

8D Helen Ewers

8E Theresa McDonald

8F Margaret Spraggan

8G Samantha Whyte

8H Pat Alston

8I Katie Corbett

8J Emma Armitage

8K Coleen Pearson

8L Dave Page

8M Ambra Buris

8N Eleanor Dunbar

8O Emma Morgan

8P Marie Marshall

8Q Faith Mitchell

8R Lorna McKenna

8S Jodie Garside

8T Sonya Manwaring

8U Lisa Gold

8V Stephanie Bergin

8W Jane Mallard

8X Joy Wilkinson

9. Origins 1

9A Harry Christopher Laing (age 9)

9B Isla Coates

9C Alexia Southern

9D Mike Halasa

9E Jackie Clark

9F Rosamund Priest

9G Kelly Mallinson

9H Aretha Richardson (age 7)

9I Kelly Mallinson

9J Sharon Smyth

9K Janice Willcox

9L Pamela Austin

9M Lynda Youd

9N Kelly Mallinson

9O Becky Cowie

9P Andrea Southern

9Q Corrie Ward

9R Adele Williams

9S Kelly Mallinson

9T Erika Chouhan

9U Erika Chouhan

9V Rachel Pollitt

9W Jackie Clark

9X Olive Joyce Laing (age 11)

10. Origins 2

10A Kelly Mallinson

10B Erika Chouhan

10C Kelly Mallinson

10D Erika Chouhan

10E Margaret Gosley

10F Sue Murray

10G Evie Robinson (age 10)

10H Katie Holt

10I Beverley Roberts

10J Geraldine Love

10K Heather MacDonald

10L Marie Bergin

10M Rona Ellison

10N Abe Ridly-Cain (age 7)

10O Zurqa Rasal

10P Angela Worden

10Q Sarah Martin

10R Eva Hardman

10S Elise Hopwood

10T Jake Thorne and Snoof Kattekop

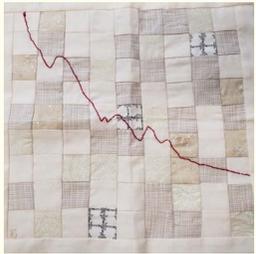
10U Ruth Pollitt

10V Jack Thorn and Snoof Kattekop

10W Isabella Hannabuss-Wrench

10X James+Ros Brand Donation

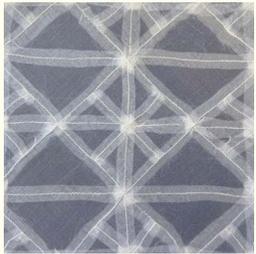
1. Radio Waves



A1

Isaac Griffiths (age 7)

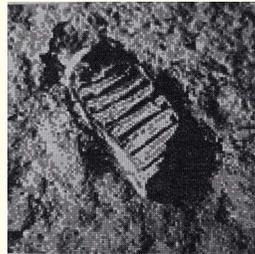
Tracking Apollo 11 descent.



1B

Sarah McAlister

Made using found fabric and inspired by the design of the metal framework supporting the dish.



1C

Hillary Smith

There are 14,278 stitches. It has (theoretically) taken 143 hours based on 100 stitches per hour – some days I went slower. The piece has been sewn on 14-count Aida using DMC threads, black and 7 shades of grey. My thought process from the mood board was triggered by the 'Waves of Discovery' theme and the moon landing in 1967 when Jodrell Bank tracking provided independent evidence that the Americans had indeed landed on the moon. I have taken inspiration from the iconic photograph of the first footprint of man on the moon. I have also dedicated this to a great friend who recently died and to whom watching the moon landing on the TV as a small boy was his most cherished memory.



1E

Claire Dowling

The lighter blue patch represents stacked plot of consecutive radio pulses (at 318MHz) from the first discovered pulsar, CP 1919, by Dame Jocelyn Bell Burnell in 1967. I recently met Jocelyn at a conference for women studying Physics at undergraduate level and was inspired to research her work and thought it would be fitting to represent the data she collected as part of a patch for the quilt, since radio astronomy is intrinsic to research at Jodrell Bank.



1G

Anne Brooke

Inspiration taken from the shape of the soundwaves radiating with space alongside the colours of sound.



1H

Anonymous

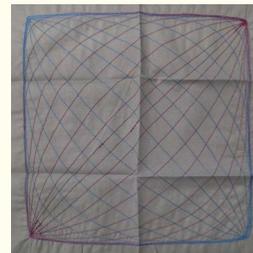


1D

Debbie Higham

The Sounds of Space

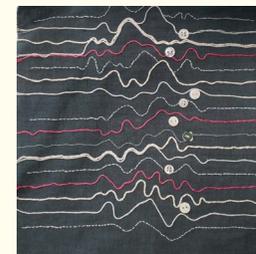
I have loved stitching this, letting my needle respond to my imagined sounds of space, translated into a word of colour.



1F

Cozza

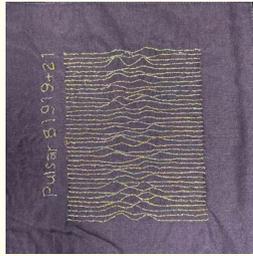
As a keen sewer and scientist, I was so keen to contribute to this wonderful project. I made this in an hour. Each colour is a continuous thread and of course it's a Penrose diagram. Representing the infinite nature of space time.



1I

Sue Campayne

Pulsar Signal. Joy Division. Pre-Digital Age. Individual People. Handmade. What a joyful project to take part of!



1J

Teresa Anderson

Pulsars and Unknown Pleasures.

This square is traced directly from the data plot of Pulsar B1919+21, created by Jodrell Bank Astrophysicist Patrick Veltervede. Patrick made the image on 15th June 2019, as a celebration of the 40th Anniversary of the release of the album Unknown Pleasures by the band Joy Division. The album cover (famously) uses a pulsar trace made by Jodrell Bank. The square is worked in a metallic thread in stem stitch on a sample of textile composed of 70% Kermel and 30% metallic thread made by Heathcoat Fabrics in Tiverton. This high performance fabric is resistant to heat and flame and the conductive threads protect from electrical discharges. It's used in protective suits for firefighters and other people working in hostile environments (such as astronauts). Heathcoat make a range of specialist textiles used in space missions. Their fabrics are used not only in space suits, but also in elements such as the parachute that delivered the NASA Perseverance Rover to the surface of Mars in 2021. It seemed appropriate to include their fabric in the quilt, in acknowledgement of the unseen role that textiles play in scientific endeavour.



1K

Kay Hobbs

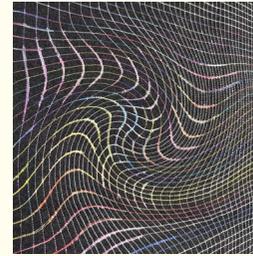
The images of the pulsars inspired me to use my favourite technique of graduated flying geese, creating movement from one space to far beyond. This is interspersed with circular images in ribbon weaving representing the pulsars. The background fabric was an impulse purchase when sheltering from a thunderstorm at a quilt show. The piece was laying all alone pleading to be included to represent the particles of the atmosphere.



1L

Claire Dowling

The darker patch is a diagram of a pulsar, describing the magnetic field, axis of rotation and jets of radio waves. Again, since radio astronomy is so important in the research themes of Jodrell Bank, and pulsars were first identified using radio astronomy, I thought it would be a fitting image to include.

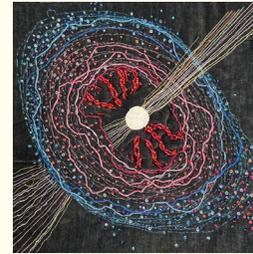


1M

Jane Rogers

Sound Waves.

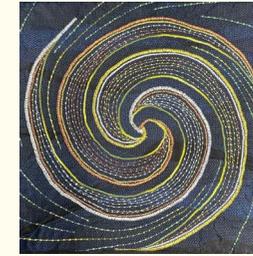
The shape of the sound waves are beautiful and sensuous rather like I imagine space can be. I also realise that they are the basis for a lot of the work done at Jodrell Bank, or I suppose so. The colour is my interpretation but I just love the curves and twists in the waves.



1N

Jessica Peto

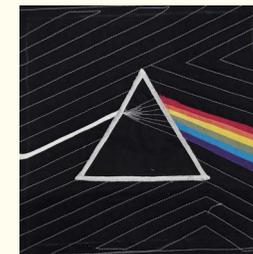
In brainstorming ideas for Jodrell bank community quilt project, I struggled to choose between two designs but with extended deadline I ended up creating two panels. Panel 1 is inspired by artistic interpretations of quasars which Jodrell Bank played a significant role in their discovery. Quasars are one of the most luminous objects in the universe and are galactic nuclei powered by supermassive black holes. See 6U for panel 2.



1O

Hilary Edwards Malam

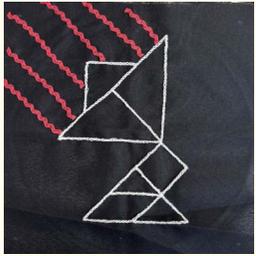
As a Christian who is excited by Astronomy, I have made my squares to represent the power of God and the wonder of the universe as revealed through science. Gold, silver and copper threads have been used to represent the Trinity, but also the precious nature of knowledge learned at Jodrell bank over 80 years. I have hoped to capture the beauty of both art and science in my pieces. The Beginning. From blackness of nothing everything spirals into existence. The blue netting denotes structure beginning to emerge. The three arms of the spiral represent the three aspects of god – father – son and the holy spirit. The same but different aspects of the whole and the heart of creating. Some would call this the big bang, the spiral is recurring image throughout. See 3R and 3V.



1P

Gillian Jones

As you did the Dark Side of the Moon show last year I decided to copy the album cover.



1Q

Carlos Alberto P De Silva

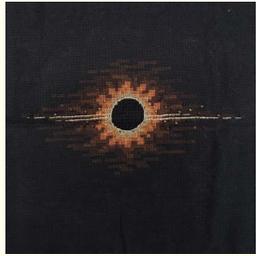
This work was created using the traditional technique of embroidery, inspired by the geometric simplicity and creative possibilities of the Tangram puzzle. This contribution is part of an initiative of the BERG – Brazilian Educational Radioastronomy Group, a collective dedicated to promoting radio astronomy through education and artistic expression. We believe that science and culture go hand in hand, and this piece is a small tribute to the pioneering role of Jodrell Bank in expanding our understanding of the Universe. May this anniversary be a celebration of the past, a recognition of the present, and an inspiration for the future of radio astronomy.



1R

Frances Passmore

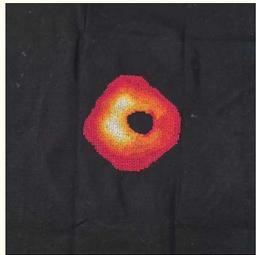
Inspired by an online photo of an Einstein Ring.



1S

Martha McKenna

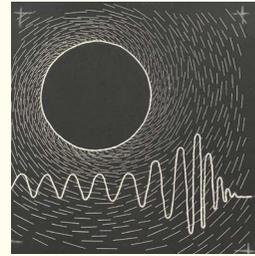
Cross stitch of a black hole stitching something that can only be seen from its accretion disk was fun.



1T

Michelle Hughes

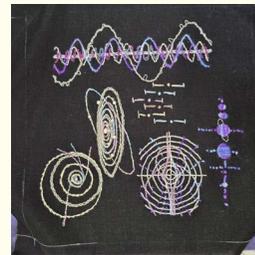
My piece of sewing shows the first image of a black hole at the centre of the galaxy M87. Jodrell Bank helped the Event Horizon Telescope by developing very long baseline interferometry techniques during the late 1960's. This technique links radio telescopes across the globe to create a virtual telescope which achieved the resolution needed to image a blackhole.



1U

Julia Crook

For my panel I have chosen the themes of black holes and gravitational waves. A fascinating and yet terrifying phenomenon, as portrayed in many books and science fiction films over the years. You can't escape and we will all be sucked in by them one day! Black holes can only be detected by radio waves, emitted from a spinning disc of dust and particles that are drawn to it. Friction from spinning cause the particles to release radio waves that can be detected from earth. This is an important part of the work done at the observatory, using radio telescopes to study them and further our understanding of them. I look forward to seeing the finished quilt.



1V

Debbie Roycroft

This piece is inspired by the diagrams used to show the movement and trajectories of planets and moons our solar system and the Voyager and Pioneer probes sent out to explore them.



1W

Wendy Hale

I was inspired to create this piece as it is such a vast, intriguing subject which greatly interest me. It has provided a rich source of inspiration for some of my textile art. I've always felt deep fascination and connection to the wonders and mysteries of the universe. The concept that there is life beyond earth, something out there bigger, greater and more powerful than mankind will continue to captivate me.



1X

Alke Groppe-Wegener

I call this piece invisible rainbow. It is inspired by the layout of the First Light Pavilion (taken from the screen saver on the screen just outside of the exhibition) and the Idea that we don't see the radio waves, even though they are not unlike light waves and the colours we see.

2. Cosmos (felt)



2A

Janice Wellington



2B

Jane Sinkinson

My original inspiration came from being taught the felting process by my sister and then, realising it looked like the cosmos to me, I added the embroidery thinking about 'A Sky Full of Stars' by Coldplay.



2C

Sheila Conchie

Cosmic Connection Theme

I found the background piece of silk when I was looking for inspiration for the project. Silk paints had been used to make a "Star Burst" design. I used machine embroidery and some hand stitching to embellish the design and a few beads as well.



2D

Patty Callaghan

This piece is based a photograph of the Swan Nebula (image credit: NASA/SOFIA/ Lime, De Buiser, & Radomski et al.; ESA/ Hershal; NASA/JPL-Caltech). I used a tangle of embroidery threads to represent the different colour masses, held in place by a net and freehand machine embroidery. The quotation come from Yuri Gagarin, the first man in space to orbit the earth. I have tied to use mainly re-purpose materials. The silk fabric has been pieced together from sample books – a nod to Macclesfield

industrial heritage. The net was salvaged from a textile conservation project I was involved in many years ago, and the embroidery threads all came from charity shops. And I use a reconditioned sewing machine...



2E

Ann Casson

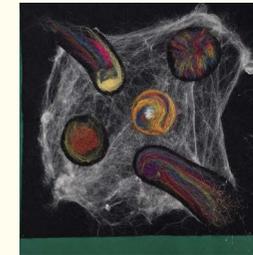
My inspiration was the colourful photos of the galaxies. I attended one of Anne Kelly's workshops and was inspired by the variety of techniques she uses in creating her masterpieces.



2F

Judith Callaghan

This piece of wet felting was originally a portrait of St Ignatius of Loyola. But, disappointed with it, I changed it to a cosmic event. I hope he'd be pleased.



2G

Francesca McArthur

My Space

Inspired by colours and texture in researched photography



2H

Jackie Clark



2I

Sara Rathbone

Cosmic Rays

I was inspired by Professor Emeritus Ralph Spencer and his work on the interaction of Cosmic Rays as they go through the

atmosphere. The image comes from a CERN diagram that lent itself to a simple sewing technique using chain and running stitches. The mountains and hills are appliquéd using needle turn and machine sewing.



2J

Cai Hin Kockavika

I created this piece using roving wool and ribbon to symbolise the different components of the university (the ribbon symbolising the unit of time and its relativity which puts space into perspective; the ribbon's folds allude to the relativity itself). The roving wool is symbolising the appearance of space to us, with how each strand of wool is somehow integrated into time, and the vastness and detail of space. Finally, the background represents the vastness, and the gaps we tend to fill with all unknown information – like dark matter and energy – which may turn out to be wrong, like how space and the night sky isn't actually that vibrant blue

I thought gems would be a nice touch to represent stars as I've always been interested in them and their lifecycle the most.



2K

Linda Shuttleworth

This embroidery shows a supernova remnant imaged in gamma rays. The intensity is colour coded with dark contour lines that trace levels of x-ray emission from the object, which is around 3,000 light-years from Earth and measures around 50 light-years across.

The embroidery is copied from an image from the HESS (High Energy Stereoscopic System) telescope in Namibia. Credit: HESS Collaboration (2004)



2L

Alex Irving-Bell

On 10th May 2024 the Jodrell Bank staff social WhatsApp group was alive with everyone's amazing photographs of the Northern Lights. I was unable to see them where I live, but I felt I had experienced it through everyone else's eyes. This piece is to remember that special moment.



2M

Jackie Clark



2N

Lisa Gold

I was drawn to the idea of solar flares because of their energy and unpredictability. They remind me that even in the vastness of space, there are sudden bursts of light and power-moments that can't be contained. In quilting I see a similar spark when colours and shapes come together in surprising ways. For my square I wanted to capture that fiery moment and intensity stitching a reminder that energy, like creativity, comes in waves, and sometimes the brightest moments are the ones that break through unexpectedly.

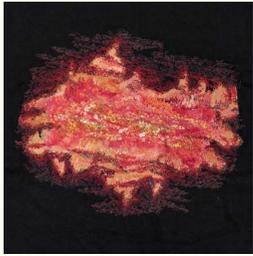


2O

Rebecca Forster

RS Oph

I decided to dedicate my square to my Dad's research into the recurrent nova RS Ophiuchi (RS Oph). RS Oph is just over 5,000 light years away from Earth. The two stars are so close together that hydrogen-rich gas from the outer layers of the red giant is continuously pulled onto the white dwarf by its high gravity. Enough gas is accreted that runaway thermonuclear explosions occur on the white dwarf's surface (at least 7 in the last 130 years). My Dad, Professor Tim O'Brien, (Associate Director of Jodrell Bank Centre for Astrophysics) started his research into RS Oph after the 1985 explosion.



2P

Nicky Robertson

My piece was inspired by the GLOSTAR images of the centre of our Galaxy showing how revealing radio astronomy is. It shows new images of a section of our Milky Way and traces of massive star formations. I used hand dye fabric with lots of hand stitching and free machine. See also 6V



2R

Liz Edwards

The first time I visited Jodrell Bank was on a school trip almost 55 years ago and I have been a fan ever since! I have brought along my children and now my grandchildren hoping to enthuse them with curiosity of the cosmos.

When I heard about the Cosmic Threads workshop I wanted to take part. My daughter also wanted to join me. She looked for images of the universe, I chose one which looked like a quasar and raided my fabric stash which we brought along with us and couldn't wait to get started. Anne Kelly helped us with suggestions, and we were off! I used some black cotton fabric as my background, Merino tops wool for the body of the quasar, white ribbon and silver-threaded white cord for the centre. I embellished it with thick silver embroidery thread.



2Q

Jane Woodlock

Inspired by the Dome Show: We Are Stars. There are more stars in the universe than grains of sand on every planet in the Solar System. Techniques include fabric layering, stitching to represent stars and lettering inspired by the style used to outline constellations. See 4Q and 7P



2S

Jean Marsden



2T

Janet Dugdale

Carina Nebula, Needle Felt

I was inspired to create this square by the idea of a nebula being a 'star nursery' aligning with Jodrell Bank being a starting point for much astronomical observation and research when it was built eighty years ago.

The texture and colours from the felting I feel reflect the sense of dynamism and flow the dust and gases that form the nebula.



2U

Alex Bailey



2V

Lucy Tomlinton

This is a piece created in collaboration with my son Sonny (aged 5) He chose the ISS as inspiration to show me the awe and wonder of space exploration. The shape is the view from the cupola which reminds me of a stained-glass window. The Appliqué fabric is cyanotypes by me and Sonny using locks, sand, leaves and water to create abstract shapes. We liked using the power of the sun to make it. The gold quilting is to represent the energy of an ever moving cosmos.



2W

Sophie Brandrick

Cosmic Cloud

I took inspiration from one of the four themes 'The Cosmic Connection' to showcase a cosmic cloud where new stars are born and some stars die. Visually cosmic clouds (nebulae) are mesmerising and contain a certain energy. They are lit within and their colours merge and spread out

until they fade at the edges. My textile piece was all hand sewn using a layering effect of several colours of sheer fabric to create the cosmic cloud. Some gold stitching and beads were added for depth.

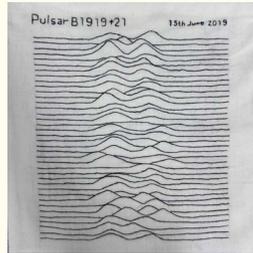


2X

Jane Glew

My Galaxy

3. Cosmos (glitter)



3A

Jessica Barton

Pulsar B1919+21 was the first ever to be discovered by Jocelyn Bell Burnell in 1967 and image of its signal was used on the cover of Joy Division 1979 debut album cover, Unknown Pleasures. With a lifelong love of astronomy, as an amateur satellite radio enthusiast (MW7JZB) a Joy Division fan, the mother of a pater seeking child, the daughter of a quilter and a physicist and a woman celebrating other women's achievements, this signal from the same pulsar captured on 15th June at Jodrell Bank seemed the perfect choice for this project.

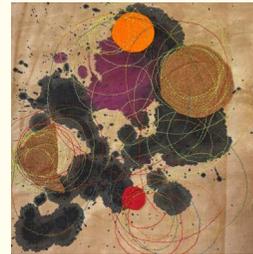


3B

Geraldine Yvonne Smith

Galactic Winds and Cosmic Sunsets
It is an abstract interpretation of real and imaginary telescopic images. The layered quality and mix of natural fabrics and hand

stitchery is suggestive of the complexity and mixture of movement, energy and calm in the Cosmos: known and unknown.



3C

Gruffud Youens (age 5)

I made this piece inspired by the planets. I used natural dyes from the earth to create the patterns and a sewing machine.



3D

Melanie Joy

It is about the seen and unseen, perhaps as yet, unrecognised energies which circulate in the universe. I know little of the potential that exists but feel sure there is a lot to be discovered, physical or spiritual, along with their interactions. Years to come will make powerful discoveries.

I usually work with pewter metal, so this became a drawing project rather than a materials led one, although it is on textile, drawn on with amazing pens which spread paint in even consistency.



3E

Bernadette Grantham

Having looked for inspiration, I saw the cosmic rays & thought they were stunning & really interesting.



3F

Zoe Childs

Sounds Beyond the Clouds

My panel portrays the view from the Lovell radio telescope. We begin under Earth's clouds reflecting the last pastel colours of dusk and the emerging sparkle of gold stars between them. The circle at the centre, represents the dish of the telescope which is detecting a myriad of astronomical wonders in space. I was inspired by the hand-coloured plates in The Harmonia Macrocosmica 'Star Atlas' by Andreas Cellarius in the 17th century and the fact that hydrogen gas (75% of the Universe' mass) is heard as a hissing sound on a radio telescope, so I wanted a fabric that could illustrate that noise. I think the chaotic tinsel fabric achieves that quite well!



3G

Anna Brooks

Filamental

Hand dyed calico with logwood, silver embroidery floss, glass beads. Inspired by the cosmic web – the vast interwoven structure that connects galaxies across the universe – the textile panel explores the invisible threads that shape the cosmos. The web-like embroidery and scattered beads evoke the luminous filaments of galaxies and gases stretching through space. Through this work, I want to capture both the beauty and the mystery of the cosmos and to celebrate the unseen forces that bind everything together.



3H

Maria Lancashire

Out of chaos came creation

Sense of discovery, finding information in all the chaos. Tyrek, heat reactive material. Heat fusible fibres fabrics. Free motion embroidery and fabric paints.



3I

Sián Fay

I took inspiration from an image representing gravitational waves, I loved the movement of the image and hoped to be able to capture that in my piece. I used grey cotton fabric printed with a wave pattern that Anne Kelly suggested I back stitch an outline of my image on to. I then couched gold and silver metallic wool into the spirals to emphasise the design, finishing it off with gold and silver buttons representing the focal point of the gravitational waves.



3J

Lee-Ann Pasznik



3K

Sue Moore

The inspiration was the telescope itself, the white “arc” at the bottom representing the edge of the telescope rim, looking out into space at the moon, stars and nebula. It’s a combination of collage, embroidery and bead work. It was great fun to make! I started it at the workshop in June and finished it at home.



3L

Anonymous



3M

Sophie Dackomse



3N

Hillary Smith

My favourite chocolate is a Milky Way and seeing the photographs online of the Milky Way inspired me to attempt this square. Made with textile collage art.

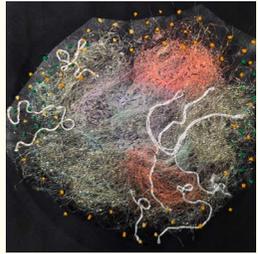


3O

Patty Callaghan

My piece is based on a photograph of Nebula RCW120. I used a tangle of embroidery threads to represent the different colour masses, held in place by a net and freehand machine embroidery. ‘And yet it turns’ is attributed to Galileo Galilei, supposedly after recanting his hypothesis that the earth moves around the sun, under the ‘persuasion’ of the Inquisition. I have tried to use mainly re-purposed materials. The silk fabric has been pieced together from sample books – a nod to Macclesfield’s industrial heritage. The net was salvaged from a textile conversation project I was involved in many years ago, and the embroidery threads all came from charity

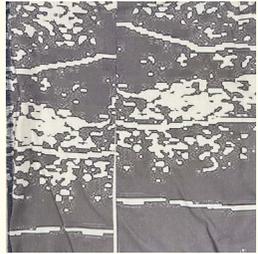
shops. You may also spot some copper wire stripped out of electrical flex and I used a reconditioned sewing machine...



3P

Joy Nolan-Eikins

Inspired by the images of the Crab Nebula.



3Q

Anne Kelly



3R

Hilary Edwards Malam

Point to Point

From point at the beginning of time and space, to a point on the Lovell Telescope.

Some of the huge variety of radio waves travel vast distances and ages, some are from closer to our home. The dish represents the optimism and expectation of receiving, gather knowledge and focusing on it. See 1O and 3V.



3S

Bee Ade

Inspired by spiral patterns e.g. Andromeda galaxy, the theme of discovery and learning new things. I learned a new spiral crochet pattern and made this piece – the black wool representing the darkness of space.



3T

Chris Grant

It was inspired by a picture of a helix nebula.



3U

Sarah Jane Ritchey

My Cosmic Threads contribution is inspired by the very beautiful Andromeda Galaxy, one of our closest major galactic neighbours, visible to the naked eye and approximately 2.5 million light years away. I decided to use paint instead of threads, as painting is my passion. I had never painted on fabric before, so this was something new to me. I believe we should try to learn something new every day, just as we are continuing to learn new things about our universe all the time.



3V

Hilary Edwards Malam

Ripples

Radio waves ripple across the blackness of space. Some are easy to detect, some are more hidden behind others. Sometimes only glimpses are detected before fading and reappearing, like a pulse. See 1O and 3R.



3W

Liz Barraclough

Wonder and Curiosity

Inspired a book I was fascinated by, with photos of earth taken from space. I imagine those early astronauts and the wonder they must have felt seeing our planet from a new perspective. It is very loosely based on London at night I wonder how light pollution and the changing landscape has altered the images after decades.



3X

Andrew Cox

Bright Red Dot and The Blanket of Night

The Blanket of Night' could be considered one of the band Elbow's more meditative songs, perhaps bearing a title somewhat descriptive of this square's original dark, diagrammatic depiction of a pulsar timing array. But over time the square developed into a more colourful - one might even say 'festival-themed' - celebration of the Lovell Telescope's role as part of the European Pulsar Timing Array (EPTA), and its work

in detecting nanohertz gravitational wave background (GWB). Nevertheless, I believe 'the blanket of night' still serves as a good partial description, given the intention to have the square incorporated into a larger community quilt. The other part - 'Bright Red Dot' - is a paronomasic reference to Carl Sagan's 'pale blue dot', and the Bluedot festival hosted at Jodrell Bank over a number of years. Earth - the 'pale blue dot' - is indeed present in the square, but the Lovell Telescope is the intended focus. The telescope's aviation beacon - seen from distance as a 'bright red dot' - is the signal of this intent, the beacon being at the geometric focus of the telescope itself.

4. Planets



4A

Rosemary Leedham

This piece shows life in space, in the beams of the pulsar (some artistic license taken!) I studied Astronomy at University, where I met my husband, whose mum from Manchester made curtains from this fabric, and my daughter helped with the decoration, so it brings together life on grand and personal scales.



4B

Lyn Bailey

The Wonder of Space



4C

Ruth Turner

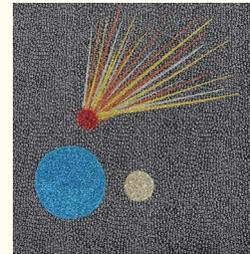
My inspiration is 'the Planets' hand embroidered on home dyed fabrics. We live close to Jodrell Bank and can see the dish everyday and often wonder which part of the universe it is listening to, being a radio telescope. We have visited Palomar, a visual telescope and seen the photos of the universe.



4E

Margaret Lunn

My embroidery (started at the Anne Kelly workshop) is inspired by the images of radio waves - the signals from the stars - their patterns and variety. These are seen against the large dish of the Radio telescope which as a resident of Goostrey is an ever present feature of daily life - a beautiful part of our landscape.



4D

Norma Hasham

Jodrell Bank, earth's eye on the universe full of sparkle and excitement. The background fabric pays homage to the mathematicians working tirelessly to help make sense of the images received.



4F

Sue Briggs

My interpretation of the Nebra Sky Disc uses Indian sari ribbon, organza ribbon, and metallic thread. The Nebra Sky Disc is widely believed to be 3,600 years old and is one of the oldest known maps of the stars. The scientists at Jodrell bank continue to expand the spirit and sense of human fascination with the cosmos represented by the disc and stretching back to the Bronze Age. Within the work the name of my mother Celai, who grew up watching Jodrell Bank being built, and her great granddaughter

of the same name are recorded and remembered. Little Celia will be a regular visitor to Jodrell Bank as she grows up.

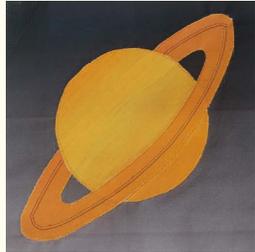


4G

Jane Clayton

Solar Flare

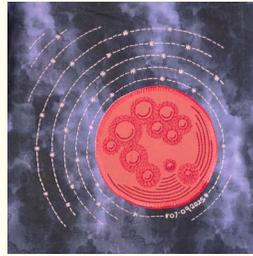
What the eye can't see. Fine threads reaching out connecting with reflections from distant galaxies



4H

Sylvia Deione

Saturn has always intrigued me, I wonder what it would be like if you could stand on Saturn and how the rings would appear from that angle. I transferred the image from a book. I have reducing it a little so as to fit the required size, stitching the image onto the background and using a twin needle to add some space between the rings. I enjoy quilting and astronomy and to be able to put the two together was a pleasure I just had to take part in.

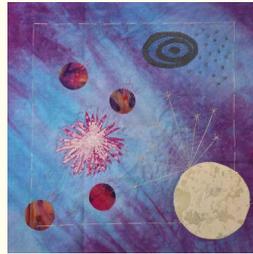


4I

Debra Baker

Red moon

Use of hand dyed fabric to capture the spectacle of the red moon



4J

Ellie Beharrell

I understand the sight lines from earth must end at the surface of a star. See right corner. The explosion of stars and the collision of black holes discovered in 2015 create ripples of gravitational waves as shown on the rest of the textile panel.



4K

Dolores Traynor

I read about the project in County Living magazine. I found this fabulous fabric in my stash and it seemed perfect to represent the beauty of the universe. I added some aligning planets and a view finding border I enjoyed making this and look forward to seeing the finished work.



4L

Barbara Brown

Jupiter



4M

Grace McKenna

Night Sky



4N

Laura Durham Turvey

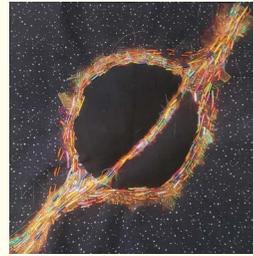
I've always been fascinated by black holes, so I wanted to create something inspired by them. After discovering that Jodrell Bank research quasars I wanted to make something to represent that. My submission depicts a quasar with two powerful jets being expelled from its core.



4O

Kathryn Byers

This is my interpretation of the milky way which I've heard of but never seen. Space exploration evokes wonder + imagination. Enjoyed representing them both in textile art.



4Q

Debi Jones

I was inspired by an image of the black hole. I find them interesting and frightening at the same time.



4S

Karen Glendining

This square is made from recycled sari silk. The stitch work uses the Japanese technique of sashiko, a visible mending technique. I was inspired by the building of the original telescope, where materials were repurposed.



4U

Maggie Hollinghead

Wonder and curiosity

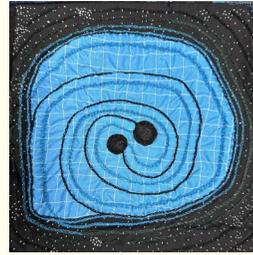
I've enjoyed learning about the planets through the eyes of my grandson since he was a toddler, reciting the order of the planets from the sun using this rhyme as a mental prompt (although the rhyme is never repeated, just the planet names), "my very excellent mother just served us noodles", later adding great factual information for each of the planets.



4P

Gail Robinson

My inspiration for my art piece came from wanting to try and show the beauty of space as well as the beauty of planet earth.



4R

Jane Woodlock

This is a representation of gravitational waves and the ripples in space produced by two black holes orbiting each other. Techniques include fabric manipulation using cord, machine stitching, chain and seed stitch. See 2Q and 7P.



4T

Leila Anderson

Jupiter

Images of Jupiter are completely fascinating, showing swirling patterns and areas of colour that are very similar to those in my other quilting projects, which draw on the traditions of Durham Quilting. I used silk painting to create the colours and shapes in the fabric, generating a bespoke design. I then quilted the shape using very small 'betweens' - the name given to the tiny needles used in Durham quilting - in order to create the fine detail of the lines and shapes. Finally, I used appliqué to attach the quilted planet onto the black fabric background.



4V

Dorial Brown

Blue Planet

Hand dyed fabric using dyes gathered in New Mills, to show movement of the earth amongst the planets.



4W

5. Stars

Jo Baird

Jupiter through a telescope.

Having recently bought my grandson a telescope I was inspired to do Jupiter because of the colours as it looks through a telescope.



4X

Andrea Elsworth

Gravitational Waves

Inspired by the thought that huge objects like planets and small objects like atoms all have an effect on one another.



5A

Sirah Quyyom

The first time I visited Jodrell Bank was when I had two young children, who loved all things space related. I loved seeing the awe and fascination on their faces when learning all about the Lovell Telescope and everything else at Jodrell Bank. My piece is a more playful, child-like representation of space, a collage of simple drawings and bright colours, to represent the excitement and wonder as seen in every child's face who walk through the gate at Jodrell Bank



5B

Rita Knight

Galaxy



5C

Kerry Tapp

Evie: I looked in Grandma's scrap box for materials that reminded me of space. I cut out the planets and the sun and attached them to the background using machine appliqué. I really enjoyed doing the solar flare effect and using bright colours.

Kerry: I sourced my materials from a charity shop and decided to do hand embroidery having been inspired by the work of Astro Anurita. I mainly used satin stitch and bold colours to represent sunrise, water and space rock. See also 5F.



5D

Val Pye

The Lovell Telescope views the abstract sky

Fabrics chosen to represent quasars and random showers of ions/cosmic debris. Tiny Apollo just about visible on the moon and sputnik is in orbit. There's a nod to the botanical heritage of Jodrell Bank site and a cheshire cat to represent the location. The sheep take no notice and continue to eat. Made with Liberty Tana Lawn.



5E

Margaret Wilmore

I have stitched a personal memory of a night in 1986 when I waited in the garden with my Dad hoping to see Halley's Comet. My young son watched from his bedroom window. The shared experience of anticipation, the wonder and delight at seeing the comet is something I will always remember.



5F

Kerry Tapp

Evie: I looked in Grandma's scrap box for materials that reminded me of space. I cut out the planets and the sun and attached them to the background using machine appliqué. I really enjoyed doing the solar flare effect and using bright colours.

Kerry: I sourced my materials from a charity shop and decided to do hand embroidery having been inspired by the work of Astro Anurita. I mainly used satin stitch and bold colours to represent sunrise, water and space rock. See also 5C.

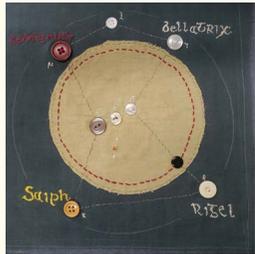


5G

Kath White

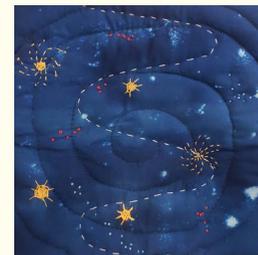
I used the lovely collage threads and fabrics to use my limited knowledge of embroidery stitches to create a sun and planets!! I enjoyed re-visiting creative embroidery again in such an historic setting, and to be a part of a lovely bigger work of art.

I have chosen to highlight Lord Nuffield and the early days of looking and listening to the stars! I am a volunteer with the National Trust at Lord Nuffield's home, Nuffield Place in Oxfordshire and have recently done some research into the connection to Jodrell bank. Interesting to find that his Foundation provided one of the first, and also one of the largest contributions to the building of the telescope and a personal donation from Lord Nuffield also paid for the final £25,000 debt outstanding on the project! I found a very interesting account of one of the Trustees of the Nuffield Foundation being taken round muddy fields by an 'enthusiastic young professor' (I presume Lovell!) and being impressed by a 'very interesting project' form which he recommended the Foundation to make significant donations. And of course, in recognition of Lord Nuffield's contributions that it was known as the Nuffield Observatory for many years. See also 6O.



5H

Ian Davidson



5J

Lawrence Menkinich

Searching for the Vast universe
For your challenge I wanted to start with a canvas of space made using 'space' itself, so I used cyanotype solution on recycled fabric, using solar UV rays. With various seeds and sand, I created a version of deep space with a brilliant blue – the rest, a few embroidery parts, give a little colour, and an idea of galaxies or stars of different sizes.



5I

Rita Hollington

My overall aim is just about the vastness of space itself, and I added the radio wave sine wave going across too; maybe picked up by the telescopes?

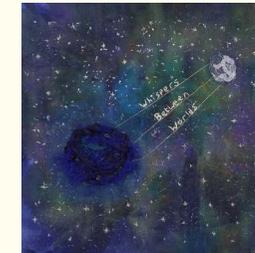


5K

Connie Wheeler

My patch is set round the exciting event of tracking Sputnik. Though the tracking was made up of radio waves in my visual interpretation this is a star sparkled Sputnik travelling across inky space. The patch is made up of Kawandi based hand-stitching on batik fabric scraps then a fusing of silver fabric with machine stitch to create Sputnik. This is then followed by some foil work to add sparkle. I really enjoyed researching and taking part this creative celebration of Jodrell.

stars. From the front, I randomly machine quilted an abstract design exaggerating the shapes (sun's rays) and from the back I used bobbin thread work. The thicker, silver thread was in the bobbin of the machine so that it shows up on the front.



5M

Susanna Lewis

Whispers between worlds
I have always been fascinated by the moon and its relationship to earth. This gentle grey world has such an impact on earth, influencing tides and playing a part in the length of our day. So close and yet so far away, I imagine the moon and earth whispering to each other, creating a connection between these two worlds.



5L

Anne Carter

Silver Super Nova
I used indigo tie-dyed fabric, and the emerging pattern resembled the sun and



5N

Tabitha Jackson (age 7) & Catherine Jackson

I love stars in the night sky, so I sewed my square to show how beautiful they are.



50

Julie Longbottom

Eagle Nebula
Deep space where new stars are born



5Q

Frances Fox

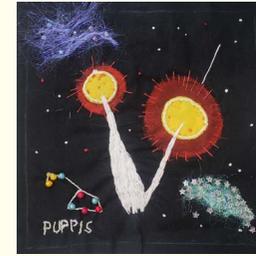
As I gaze into the night sky and the infinity of the universe the constellations of Ursa Major (Great Bear) and Ursa Minor (Little Bear) are what I always look for first.



5T

Sharon Coombes

I like stars, so I've done stars, and a shooting star.



5V

Judith Dixon

Double Binary Pulsar – PSR J0737-3039A
A double binary pulsar is a system containing two pulsar orbiting each other in a binary system. The first example and most studied is PSR J0737-3039A. The double pulsar was first detected in April 2003 using Jodrell Bank's Lovell telescope in association with Parkes telescope in Australia. The Lovell telescope was then used to follow up observations and confirm the system and study its properties. I am a novice at embroidery, however I am an avid fan of Jodrell Bank. I really wanted to contribute to the celebration of the 80th years of Jodrell Bank. I have created and embroidery artwork for the Cosmic Community Artwork Project. The technique used is hand embroidery, using a number of different textiles including organza, Angelina fibres, beads, plain embroidery thread and metallic embroidery thread. In places I have used a double whipped backstitch.



5P

Diana Irving

I made an English paper pieced dark star which I applied onto old pyjama fabric. The background fabric reminds me of the swirly universe and the beautiful rural setting of Jodrell Bank.



5R

Rita Knight

Galaxy



5U

Ayesha Heaton

This patch is made from scraps in my stash and in the background is the 'wonky log cabin' quilt patch design. I think it creates a kind of spiral/vortex effect. The piece is inspired by my daughter Joy. She wrote this beautiful poem when she was very young and space mad. When her dad died a few years later it was the perfect poem to include in his order of service. We are the stars.



5S

Linda Ball

I enjoyed doing my art piece. I got inspiration for it from looking up at the stars, so I wanted to show the beauty of the night sky.



5W

Ruth Pollitt & Theodora Juana Hidalgo

Gravitational Lens

Inspired by the gravitational lens discovered and studied by the radio telescope Jodrell Bank. Materials: V=Black cotton fabric and coloured threads, plastic pearls, plastic stars. Machine and hand sewn. See also 9V and 10U.



5X

Nadine Pennington

I love the moon and all its wonder, so I have embroidered for you the circle of my telescope, looking through it to see the moon, plus 80 stars around it to represent 80 years of Jodrell Bank.

6. History



6A

Caroline Laing

My grandfather – Sir Bernard Lovell

I was taught to sew from a very young age by my granny (lady Lovell) and my mum (Phillipa Holmes (Lovell) and I am enjoying now passing on those skills to my own daughter. I completed this very familiar portrait of my grandfather using one continuous line and free motion embroidery.



6B

Ellen Wilson

Sir Bernard Lovell standing in front of the Lovell telescope, taken from a photograph (c. 2020 – copyright UoM), using split back stitch in black thread to hand embroider the piece on a white cotton background. I based my square on a photograph of Sir Bernard Lovell standing in front of the telescope that bears his name, taken in

around 2010. The picture captures the impressive scale of the iconic structure, as well as its founder looking thoughtfully across the site. I picked up hand embroidery in 2019, just in time for it to become a lockdown hobby, and this was a nice excuse to get back into it. As part of the community project, I helped run a social session with staff covering some basic stitches and techniques for getting started – it was a really nice opportunity to merge my job as a member of the Engagement Team with my hobby, and I enjoyed the chance to share my (limited!) knowledge on the topic with my colleagues. It has also been lovely to see people who perhaps wouldn't normally engage with our story become part of the Jodrell Bank community through this quilt!



6C

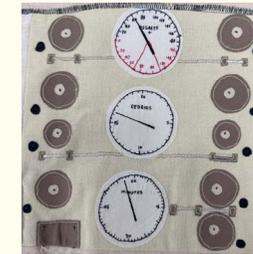
Teresa Anderson

Jodrell Bank Logo

The Jodrell Bank logo, launched in 2022, was designed for us by the leading marketing agency Johnson Banks.

Usually, this logo is represented in a “digital first” format as an animation of a dish, with the name in the middle, reflecting the fact that Jodrell Bank is home to the iconic Lovell Telescope, which is always moving, always observing the Universe. The Johnson Banks team worked for many months to identify a font that would work in the middle of the dish without too much distortion.

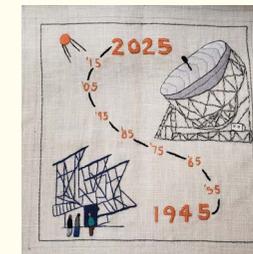
For this square I've used a linen fabric and embellished in with heat-treated glass beads in celebration of all the hard work involved in creating the logo for the site as a whole.



6D

Heather Young

A textile created with machine and hand (free motion) embroidery. Analogue computer display that originally controlled the telescope.



6E

Mairi Byrne

Inspiration for the development of this project arose from a recent visit to Jodrell Bank and viewing a black and white photograph of the original telescope. The design, created by my partner, Rob Johnston, aims to represent the timeline, as well as recognising the impact that Sputnik had on the completion of the beautiful telescope we have today. I selected Satin

and Stem stitch to complete the embroidery. Satin stitch has been used to create the 'ovalness' of the dish as well as providing filling throughout the other elements within the work. Stem stitch was used to represent the supporting structures of the telescopes.



6F

Meanwhile, in a small village infants' school in Norfolk, I was one of many children transfixed by a sight as rare and magical to us as the prospect of space travel: a teacher wheeling a television into the school hall, preparing for us to witness coverage of the moon landing.

The television, huge and precariously towering above us on its wheeled stand, had never been seen before and was never to be seen again. We sat cross legged on the floor, inhaling the room's omnipresent aroma of gym shoes with a lingering back note of school lunch, mesmerised by the unexpected appearance of such futuristic technology.

Obediently, we watched, and listened, as the teacher enthused about what a momentous event we were about to witness. More accurately, I stared at the television, and sat quietly. I could neither see what was on the screen, nor hear all of what was being said. It didn't transpire until many years later that I was incredibly short sighted and partially deaf.

All I could hear and see was a kind of static interference represented on the screen of my ink drawn, heavily quilted version of a television from that period. I've hand embroidered Sputnik inspired details onto the background floral fabric from the same era, selectively quilted to visually imply moon craters.

The floral fabric choice signifies the way in which my extreme short sightedness eventually came to light. Years later, on a family camping holiday, I commented on the pretty curtains in a disused caravan across the field. I could tell from my mum's expression that something was amiss. We went to take a closer look at what transpired

Louise Dop

Earth year – If the earth was a year old, humans wouldn't make an appearance until nearly midnight on New Years Eve.



6G

Deena Beverley

Interference

On July 20 1969, four scientists at Jodrell Bank Observatory were officially tracking an unmanned Russian space probe in orbit around the moon, whilst also using the giant Lovell radio telescope to tune in to communications with Apollo 11. The race to land on the moon was very much on.

to be brown paper window coverings. The patterns had been created by a mixture of my imagination, and sun thrown dancing shadows from neighbouring trees. This mixture of my imagination filling in the gaps of what little I could see and hear, especially at a distance, combined for years to produce a rich internal life; not one which accurately represented what was in front of and around me.

Just as not everyone other than those four Jodrell Bank scientists is aware of the proximity to the moon that the Russians managed that day (their unmanned probe, Luna 15 crashed), I was almost entirely unaware of what was going on beyond my very immediate orbit. I lived in a world of sometimes blissful ignorance. All I could see was snow.



6H

Juliana Gutierrez Ferreira

Inspiration: Sputnik 1957

I chose to commemorate the tracking of Sputnik 1957 with the Lovell Telescope (then known as Mar 1) because I find this moment fascinating. After years of perseverance, when things weren't looking promising, huge sums had been spent and the telescope was barely operational, manmade object was suddenly launched into space. In that instant, everything aligned for B. Lovell and C. Husband to

seize the opportunity and demonstrate to the world the power of their creation and its potential for space exploration. It was a breakthrough that opened a door which could never closed, only widened with time. For me, it captures the perfect combination of perseverance with a hint of magic and luck.



6I

Cleo Dehaan

3rd year physics with astrophysics student. Over the past two months I have been working as a summer student at Jodrell Bank observatory on the L-Bass project. As my time here comes to an end, I can reflect on how beneficial and exciting this experience has been. It has been incredible to do real life scientific research that matters. I decided to make this square of the project logo to give recognition to the incredible small team that dedicates themselves to this research. I'm unbelievably grateful to everyone that shaped this beautiful experience.



Julie Lawrence

Space for Everyone

I created this patch to show my love for space. Particularly how simple it is to look up at the moon and have that instant access to awe and wonder. As a wheelchair user I always joke that my disabilities would be easier with a lack of gravity inclusion for all is so important for me. Jodrell Bank is a place I can access easily in my chair. They work hard to include and represent everyone. The LGBTQ+ community are part of the progression in space technology and their whole story is now being included. Here's to space for everyone to enjoy!

6J

which, on a clear day, can be seen sparkling in the distance from the road down into Macclesfield. I have worked with, and taught, textiles for many years and the search into Space continues to inspire my imagination.



6L

Hilary Morgan

As soon as I read the brief, I knew I wanted to create a square that reflected both the origins of the Lovell telescope and its use of radio waves. Although using them in a different way my family has strong connections with amateur radio (G6CL, G3BPM, G8HCG) and I remember being fascinated by oscilloscope patterns as a young child. These are what I've tried to represent in my stitching, alongside the use of the red to indicate energy.

6K



Anne Menary

Where will your imagination take you?

I was born and grew up in Macclesfield and visited Jodrell Bank as a child and later took my own children. I now live over the Pennines in Chesterfield and on my visits 'home' I look out for the dish of Jodrell Bank



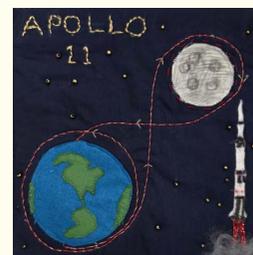
6M

Zurqa Rasul & Alia Yaqub

My second patchwork is of the Lovell telescope, a much loved part of the Cheshire countryside landscape. The sky is made

of patchwork to represent the stars. The antenna of the telescope is made using the album cover Manchester 's Joy Division. The pulsar wave formations 1 data plot of pulsars radio signal: cf1919. This was the first ever pulsar discovered in the year 1967 and published in 1970. It was discovered by student Jocelyn Bell Burnell at Cambridge University. The Lovell telescope has been at the forefront of the pulsar research more than 75% of the 1000+ pulsars have been discovered by Jodrell bank astronomers. The picture of Alan Turing is welded, as the department of astrophysics (which Jodrell Bank is a [art of is shown in the Alan Turing building.

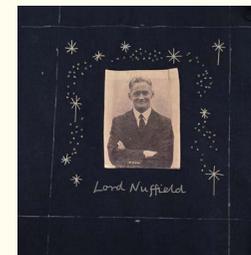
The title of the square is '**Jodrell Bank, this is how we do things here**' an ode to the poem written after the Arena Bombing. See also 10G.



6N

Sid Jackson (age 10)

My piece is designed as the trajectory of Apollo 11 as I know Jodrell Bank important in getting real time information from the Eagle Lander as it was the only telescope in Europe that could do this. I also added some beads to represent stars in the background.



6O

Rita Hollington

See 5I.



6P

Julia Riley

Mary and the Meteors

Mary Almond, the first female researcher at Jodrell Bank Experimental Station. My square is inspired by Mary Almond, who took her PhD at Jodrell Bank 1949-1952 . Her research involved studying radar echoes off meteors ('shooting stars'), determining their velocities and orbits. One of the meteor showers she studied was the Perseids, represented on the square by the constellation Perseus from which the meteors appear to emanate. She published a number of papers on radar astronomy, some co-authored with Bernard Lovell and others. She went on to research palaeomagnetism, and to become a lecturer in maths and computer science, being one of the first computer science lecturers

in the UK). She continued to teach until retiring at the age of 80. This photo used is taken from the 1951 team photo in front of the searchlight aerial and is one of the only photos I've been able to find of her.



6Q

Philip J Naylor

3C 309.1 is a quasar in the constellation Ursa Minor, discovered in 1988. It contains a compact steep spectrum source that is one of the brightest and largest of its kind. This image is created from data collected in 1980 by the MERLIN radio interferometer, comprising the telescopes at Defford, Tabley, Wardle, Knockin, and the Mk2 dish at Jodrell Bank. I spent most of the summer of 1988 looking at slightly different versions of this image, while trying to speed up the 'clean' deconvolution algorithm as part of my MSc project. Of course, back then there were just a couple of colour displays in the computer room and only black and white printers, so I've added some false colour to the version.



6R

Philippa Holmes

As the youngest daughter of Bernard Lovell, I am delighted to submit a cosmic square for the community quilt to celebrate 80 years of discovery at Jodrell Bank. "per fluctus ad stellas" aptly describes the scientific wish of my father and is written on his gravestone in Swettenham, so I thought it appropriate to use these words and their visual meaning "through waves to the stars" in my design.



6S

Elizabeth Boast

Cheshire May night sky
Black cotton + satin background. Metallic sewing threads. See also 7J.



6T

Patricia Jones

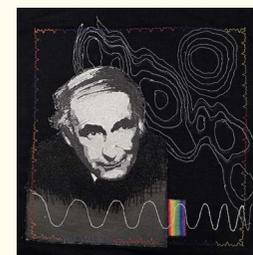
I used machine embroidery and hand applique using blanket stitch. I name the block 'seek & friend'. Many thanks to Emma who kindly sent me the booklet.



6U

Jessica Peto

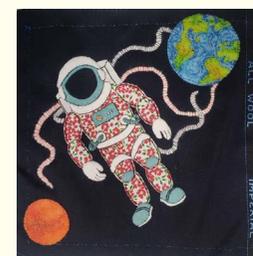
Panel 2 was inspired by Bernard Lovell who setup his radar equipment on land owned by University of Manchester which was the start of radio astronomy at Jodrell Bank. It features a portrait of Bernard Lovell, the Lovell Telescope and some of the control panel. See also 1N.



6V

Nicky Robertson

I found an image of Sir Bernard Lovell which I could edit into half tones and so give him a rather wizardly look. I then free machine stitched the image of him. I also free machine stitched radio consoles of a galaxy in the background and added the radio end of the electromagnetic spectrum across the bottom. See also 2P.



6W

Helen Greenheld

Space has always been 'new' – uncharted territory, empty, lonely. I remember looking into the night sky in my youth and feeling overwhelmed by the enormity of it and the enormity of my not understanding it. Others have looked up and said, 'I wonder?' and, In places such as Jodrell Bank, they have explored and discovered and allowed other adventures to go out into that scary space with increasing knowledge and understanding. So now, humankind can seriously consider heading out to live there!

What would that be like? Start place, white, metal, plastic and full of tubes and dials and science. Never homely, surely? If I was plunked on a desert island, along with my music I would have to have a means to knit. I would need crafts. If I was sent to space, would it not be the same? So, here is my astronaut. Wondering curiosity has led them to want to be there, science has allowed them to be there but they're human, show home in tradition still pulls. Cosy and protected in their traditional patchwork fabric suit, they are heading off to Mars but are not quite yet detached from mother earth. You can't see it, but there are probably some knitting needles in the back pocket!



6X

Annie Hogan

This is 'Laika' the space dog who's historic 1957 one-way mission onboard Sputnik 2, made her the first animal to orbit Earth. She represents all those (animals and humans) who have made a sacrifice for the advancement of our understanding of our own universe. It's also incredible to think that all human space missions, not to mention the ISS, would never have been possible without Laika and the countless of other animals who went into space first.

7. Telescope (rainbow)



7A

Phoebe Myers

Receiving

I love the geometry of the dish so used that as my main motif, then had fun playing with colour and pattern. The techniques used was layered silk painting.



7B

Den Masset

I was inspired by the connection that Jodrell Bank gives us to outer space, how it links us together. Two incredibly diverse places, both beautiful but so different. I wonder if something out there in outer space watches us as we watch and look out at them.



7C

Althea Walker

An abstract depiction of the surface of Jupiter including the great red spot.



7D

Amanda Rees Murry

Waves of Discovery

The writing was handstitched, Inktense fabric paint on calico, applique and free motion stitched, free motion based on radio waves. December 1945 sequin in the Sagittarius Constellation

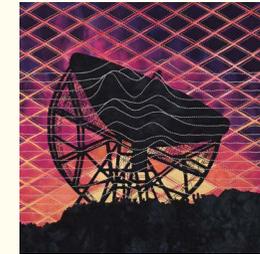


7E

Janet Gillespie

Lovell Telescope at Sunset

A love of crafting plus love of the sky's equals my first embroidery project.



7F

Karen Burrage

I was inspired to contribute this piece after a recent visit to Jodrell Bank to see the Royal Astronomical Society quilt which I had small piece in. Jodrell Bank has been part of my life, from school visits as a child, seeing it regularly on trips up and down the M6, to taking my children to see it as they grew up. Our daughter refers to her visits there as part of the inspiration to becoming a Professor in Theoretical Physics specialising in Cosmology and Dark Energy. I am in awe of the Lovell telescope every time I see it and realise what a huge contribution it has made to our understanding of the universe and the part it has played in my life. My piece

depicts the Lovell Telescope with signals from radio pulsars through it, set against a beautiful sunset.



7G

Megan Crooks

Slow-mo star trails & cosmic waves.



7H

Helen Hamilton

To create this quilt square, I was inspired by 4 things: a) the amazing structure of the Lovell Telescope – visible from Mellor Moor near home; b) beauty in astrophotography images; c) ideas of waves and science; and d) traditional bargello quilt patterns. The piece contains only scraps from my sewing box and those of my two creative science-loving sisters.



7I

Laura Barker

I'm fascinated by space and was in my element visiting Jodrell Bank a few years ago. I have a photo of me stood on the hill in front of the Lovell Telescope which always makes me smile. The next generation of my family, namely my niece and nephew, are also very interested in space. They live in New Zealand so when we call it's their morning and my nighttime. One night (/morning) while video calling, they commented on the fact I was ready for bed, so I went outside to show them it was night here. Their minds were blown and they kept giggling because they could see the moon, I can only apologise to my neighbours for the loud laughter and shouts of "look at the moon!" at half past midnight. On my patch I wanted to represent the multi-generational wonder of space by showing myself and my niece and nephew on the hill in front of the telescope (an image I hope we can actually create one day when they visit the UK.) I also had to add the moon after it being such a stand out memory of one of our calls. My niece's middle name is "Aurora" which is why I chose the Northern Lights background and my nephew's name is "Orion" which is why I chose to add that constellation in beads.



7J

Elizabeth Boast

Red Shift / Blue Shift

Black cotton and satin background. White cotton coloured with Derwent Inktense colours + water to make a spectrum. Black cotton bias building strips. See also 6S.



7K

Jean Gladwin

Imagining a beautiful starry night.



7L

Frances Singleton

This is dedicated to the memory of my husband John Singleton 1931-2024. He was a member of Hebden Bridge Astronomy Society. Long may Jodrell Bank Centre continue.



7M

Nikki J Wragg

I wanted to combine two aspects within my patchwork. Firstly, from the visit my friend I made earlier this summer that's perspective of the Lovell as we walked around the site. Secondly the 'signals from the stars': in my research I read about pulsars and quasar glitches and found the 2003 graph of the Crab Pulsar. I found interesting that a glitch – usually a snag or a set back – here was considered a positive, something to learn from, to teach us more about the universe. Techniques used: Crazy applique, applique, freehand embroidery, decorative machine stitches and French knots.



7N

Eileen N Thompson

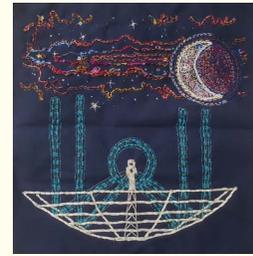
My son has been fascinated by Jodrell Bank since he was 18 months old. He created models out of Duplo and bricks using his toy drum to represent the large radio telescope. Since it holds precious memories, I was eager to take part in this project. And my choice of a Bargello style and fabric colours are how I imagine the radio waves.



7P

Jane Woodlock

This square representation of the Jodrell Bank telescope and its role in the detection of radio waves. Techniques include fabric layering, fabric slashing, couching and seed stitch. See also 2Q and 4Q.



7R

Denise Dent

Explore the unseen forces that shape our universe – radio waves, gravitational waves, and the power of discovery. Imagine the quiet hum of the Lovell Telescope as it listens to distant stars.



7S

Katy Goodyer

I have always loved looking up into space and wondering what's out there. The two people in the bottom right hand corner could be interpreted as one generation handing on the importance of space to another. But its far less grand and for more intimate in reality. That's me and my dad. I grew up in a small village with no light pollution, and a core memory was grabbing dad's binoculars and us both standing in the garden gazing upwards. He would teach me the stars and constellation names. The love he had for them was passed down in in those times. I always used to love to look at the Pleiades and marvel at how many stars I could see with the binoculars. Those times spent in the garden with my dad are very precious to me. Whenever I think of space, I think of them. Jodrell Bank is one of those places I can indulge in those memories and the love of space. It may seem tenuous, but I promise it's not. It is really dear to me.



7O

Chris Adley

Without the telescope we would have no idea what the cosmos had to reveal to us, the earthlings. Amazing!



7Q

Val Copestake

I visited Jodrell Bank in the mid 60's when I was at school and it was a long journey. I remember sitting in a marquee for a lecture which I didn't really understand but just being beneath the telescope left a visual impression on me.



7T

real time. I was intrigued by this, but thought that just a graph would be a bit dull and not truly convey the inspiration. However, it made me realise that Jodrell bank truly is a 'Window on the universe' – hence the square.

Ann Robertson

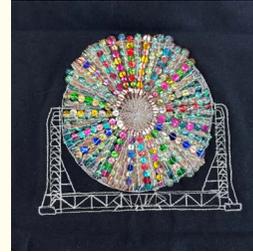
My inspiration for this piece is the amazement I fell thinking about the immensity and beauty of space and of the telescope itself. I feel dwarfed by both but fascinated by the beauty and scale of each. There is something extraordinary about the telescope. I can see it from many of the places that I go walking and it always seems to be not quite where I expect it to be. It always seems to be on the move, perhaps that is as it should be! Reference photo for background inspired by Multiverse #1 – Girosience/Science Photo Library.



7V

Kate Greatorex

Our solar system. Hand sewn patchwork to reflect the sun at centre of the solar system at the centre of system with the planets revolving around. Hand dyed fabric (naturally) and threads.



7X

Linda Dulieu

I belong to a stitch group, formerly part of the Embroiderers Guild, and now known as Romford Embroiderers. We had a fantastic day out at the site – and I gained some inspiration! I used the blueprints of the telescope as my start point and was encouraged to get involved by one of the staff members who showed me her W.I.P of Sir Bernard Lovell.

8. Telescope 2



8A

Katherine Francis

Inspired by the antenna inside the Lovell Telescope.



7U

Sue Miller

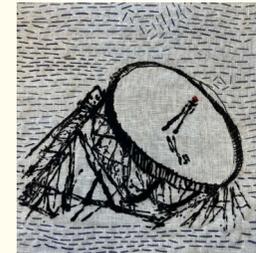
I was looking for some inspiration for my square at the history of Jodrell Bank on the website and I saw the graph plotting the first lunar landing. Jodrell Bank was the only station in Europe that was plotting this in



7W

Gemma Muney

I love Jodrell bank and the way the telescope looks – something that humans have made – and the connection it gives us to space. I have chosen colours that make me think of the wonder of the universe. When it is pieced together with others, you won't see



8B

Teresa Anderson

The Lovell Telescope

This is a fairly simple embroidery, worked in a single-ply merino wool on a linen background. I wanted to make a square, using natural fabrics, that was quiet yet reflective. After working at Jodrell Bank for almost 20 years, I still find that sense of perspective when watching the Lovell Telescope move, knowing that it's picking up faint radio signals that have travelled many millions of years to reach it, at the same time as I'm observing it. It's like sitting on the shore of an immense ocean, realising that our lives are tiny, in the vastness of the cosmos.

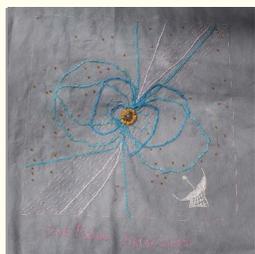


8C

Lynda Youd

The Lovell Telescope

A magnificent structure. An iconic landmark on our Cheshire plain. An Awesome piece of British design and engineering, with the white dish seen for miles around and the centre red light – a truly amazing sight. The surrounding border representing the grey steel teeth of the cogs that engage the base of the telescope. See also 9M”



8D

Helen Ewers

I am a medical doctor (GP) so loved science at school. My favourite subject was maths closely followed by physics. The main thing on my square is a pulsar which was one of the first things that I think of when I think of space. I am part of an embroidery group in Goostrey so tried to use some of the different stitches that I have learnt from some very talented members of the group. We live in Bridge Lane so look at Jodrell Bank on a daily basis and because of the

lack of light pollution we have a fantastic view of the night sky.



8E

Theresa McDonald

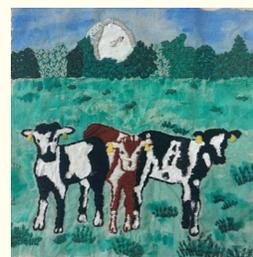
Sputnik and the Lovell Telescope

After a visit to Jodrell Bank with my son I was inspired to contribute a patch for the quilt. The conceptual idea I considered was Wonder and curiosity. Which as adults we can often lose. I hoped using a combination of hessian my son’s old school uniform and hand stitched applique would be a reminder of the awe and curiosity of childhood. The patch shows the Sputnik satellite against a night sky (from school trousers) and the Lovell telescope (the trouser pocket) searching for exoplanets. I backed the hessian with material from an old school shirt for strength.



8F

Margaret Spraggan



8G

Samantha Whyte

Calves at the End of the Drive

As the Lovell Telescope was built in the lovely Cheshire landscape, I wanted to have a countryside theme to my quilt design.



8H

Pat Alston

In 1970 a group of young housewives in Goostrey decided to form a new Women’s Institute. In view of the villages of proximity to Jodrell Bank we chose the name Jodrell Side Women’s Institute. It seemed highly appropriate therefore that we should want to celebrate Jodrell Bank anniversary so we hope that you will accept this contribution from all past and present members of Jodrell Side WI.



8I

Katie Corbett

An abstract design based on the Lovell Telescope. Appliqué with hand embroidery and beading on a hand dyed cotton fabric background, together with Prairie Points made from transfer dyed satin.



8J

Emma Armitage

The Lovell Telescope is an unmissable park of the skyline and so I wanted to make it a feature. I also loved the effects of long exposure photographs in the night sky. I used varied thread to create my interpretation of the streaks seen in the photographs, and I used warm tones in the stitching and fabric choice to bring the whole panel alive – just like the night sky.



8K

Coleen Pearson

My piece is inspired by my fascination with Jodrell Bank, particularly the Lovell Telescope which was built in 1957, the year of my birth. The fabric has been printed with geometric tessellations taken from my own photography of the telescope. The little girl represents me – although I didn't actually visit the telescope until I was an adult. I also love dragonflies, and these can be seen in the arboretum at Jodrell Bank.



8L

Dave Page

The inspiration behind my square was the historic moment when the Lovell radio telescope was used to track and confirm the presence of Sputnik 1, the first man made satellite, in 1957. The piece uses fabric collage to represent the satellite and telescope and uses stitching and couching to show the connections between Earth and space.



8M

Ambra Buris

Science and Nature, by day and by night

Intended to represent the beauty of our white giant (the telescope) continuously looking into our cosmos, but beautiful in its own form (especially by day) and the shows of the auroras that have showered over it by night thus bringing the cosmos closer to it. This celebrates the intricate ways celestial bodies interact with the earth and the sun and the small interactions between particles reflecting the unity of all things in the cosmos.

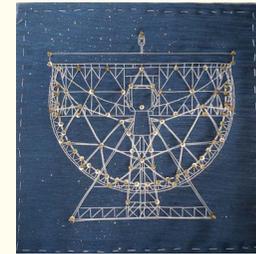


8N

Eleanor Dunbar

Former student of University of Manchester 1967 – 1972, I recall driving past the radio telescope in Cheshire en route to start at Manchester, a strong memory of cows grazing around the foot of the structure. The red thread is the anchor, thread used for my

school name tapes, dating back to the 1950's and preceding the first rocket in space. I live in the North of Scotland where I regularly witness the Aurora, and always gaze up at the stars when I walk my dog at night. The Universe is a very integral part of my daily existence, and working on this small project has helped me find out more about what's out there and how mankind is discovering what lies beyond earth.

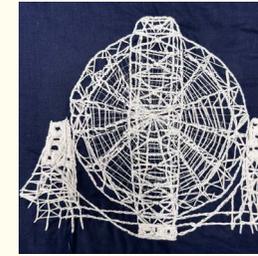


8O

Emma Morgan

Ever since winning a trip to Jodrell Bank as a child, the Lovell Telescope has been one of my favourite local landmarks, so my contribution to the community quilt pays tribute to this awesome portal to unknown worlds and galaxies.

White embroidery floss takes the place of steel girders, layered glittery blue organza represent the night sky and 80 sequins signify points in a constellation and the 80 years of Jodrell Bank.



8P

Marie Marshall

The Lovell Telescope

I've worked next to this magnificent iconic landmark for over 5 years and still marvel at its incredible structure especially through the awe of a new visitor. But, I've never looked at it in such detail as I have over the last few weeks and I feel I have got to know it in a different way. I wasn't sure which aspect to focus on to capture the magnificence of the telescope... the scale, light, the shape or the way the telescope moves. I decided to focus on the lines within this structure showing the scale and support required to hold the weight of the bowl structure whilst allowing it to rotate to observe any point in the sky. In the same way that large landmarks and monuments, make you feel small and insignificant in scale, The Lovell Telescope takes this to another level, as this incredible structure is looking out to distant galaxies millions of light years away. Whilst the scale of the telescope humbles you as a human on our small planet it is also a magnificent reminder of what humans are capable of.



8Q

Faith Mitchell

My Square is constructed by paper piecing, a technique which I've been enjoying recently and seemed apt for a quilt. My idea was to represent the bowl of the telescope (light fabrics) 'listening' to the universe (dark & silver fabric). To reinforce that idea, I've added a small piece of appliqued fabric to the end of the antenna, some couched silver lines to represent the radio waves reaching the antenna and a few sparkly bits to add points of interest to the darkness.



8S

Jodie Garside

The Lovell at Night

Inspired by a photograph my grandad took of the Lovell Telescope years ago, I decided to create a design of the Lovell against a starry, night sky background. The Lovell Telescope is an iconic part of the Cheshire landscape and something I see every day so was an easy choice as the focal point of my patch.



8U

Lisa Gold

I was motivated by Jodrell Bank because it reminds me of how small we are, yet how big our curiosity can be. The Lovell Telescope, always looking up, feels like a reminder to keep asking questions and to keep reaching beyond what we know. For me quilting has a similar spirit – taking little pieces and joining them into something larger, something that tells a story. In my square, I wanted to capture both the shape of the telescope and the sense of wonder that comes with looking at the stars. It's a way of stitching together science, imagination, and a bit of my own awe at the universe.



8W

Jane Mallard

I was inspired to submit something because my partner Ian and I have visited Jodrell Bank and thoroughly enjoyed it. Ian and I met at Defford – where we worked more or less beneath the antenna (or site 12 as we knew it then). Ian, who is an imperial college science bode, was testing satellites when i joined as an admin assistant (on the day i left Ian did allow me to guide site 12 for a fraction as they carried out a repositioning job!) I have never lost interest, our visit to Jodrell Bank made me realise how tiny site 12 at Defford is in comparison with the Lovell telescope!



8R

Lorna McKenna

Constellations



8T

Sonya Manwaring

My square shows the Lovell Telescope, the infrared universe on top and the Apollo landing radio signal on the top. I enjoyed the visual images of how the Lovell telescope is record history; both ancient and modern.



8V

Stephanie Bergin

"I have always been a fan of space, science fiction, so this Lino Cut depicts how Jodrell Bank searches through space to find out whatever they can. Exhilarating, Great work.

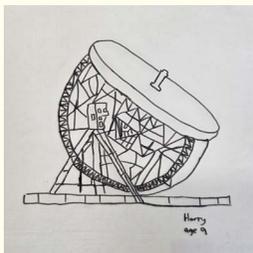


8X

Joy Wilkinson

My 11-year-old grandson paid a visit to Jodrell Bank and thoroughly enjoyed it. It was his suggestion that I made a square for the quilt!

9. Origins 1



9A

Harry Christopher Laing (age 9)

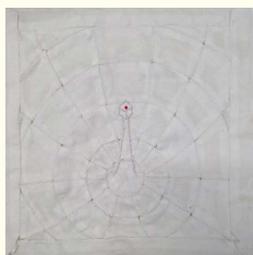
I love using fabric pens to make my own homemade T-shirts so used this idea to draw my Great Grandfather's telescope. I drew my picture freehand on paper and then traced it onto the fabric by taping it to the sunny kitchen window! The fabric is even an old sheet of Great Grandfather and Great Granny's!



9B

Isla Coates

These patchwork fabric squares were completed by year 8 pupils from Llangollen, North Wales. The pupils completed the pieces using fabric from school but finished them at home.



9C

Alexia Southern

Inside the Dish

Since I began working at Jodrell Bank I've dreamed about going up the telescope and inside the dish. At last, after 8 years, and many friends and memories made, I went up earlier this year and it was as exciting as I'd always hoped. As a quilter myself, I wanted to use patchwork in my design and used the method of English Paper Piecing to put together the telescope panels. The Lovell Telescope has 336 panels of galvanised steel, compared to my patchwork version which has 49 panels of cotton and significantly fewer jackdaws living in it.



9D

Mike Halasa

My inspiration for the piece comes from the invisible waves and signals emitted by the telescope. Visually, it is inspired by the woven language of the Black Forest School and Anni Albers, expressed through its felt colour blocks and stitched geometric

outlines. It was created using a combination of couching, traditional hand-stitch techniques, and machine stitching around the edges of the square.



9E

Jackie Clark



9F

Rosamund Priest

Vogon Destruction Fleet



9G

Kelly Mallinson

Children from various primary schools across Stockport have come together to stitch their own piece of the universe. Over 50 children have contributed felt patches to 11 panels, stitching constellations, shooting stars, planets, meteorites and the Milky Way. The panels themselves are re-used school uniforms, reflecting the sustainability theme of their final term at Sewing Club. See also 9I, 9N, 9S, 10A & 10C.



9H

Aretha Richardson (age 7)

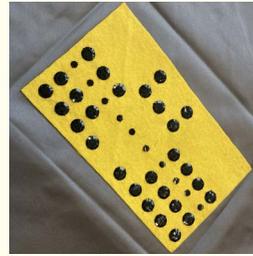
This is the beautiful sun and the planets. I painted the material first and then I sewed on the planets and the beads.



9I

Kelly Mallinson

See also 9G, 9N, 9S, 10A & 10C.



9K

Janice Willcox

Section of Jodrell Bank punched computer tape

I was inspired by my memory of a childhood visit to Jodrell Bank around 1970. I remember being allowed to take home a strip of yellow paper punched tape which I'd watched appearing – amazing to believe that it contained information about the universe. It wasn't long after the 1969 moon landing which I had watched on TV on my 5th birthday, so I also remember being bought a postcard showing the moon landing and the July date. I've hand stitched black sequins on to yellow felt to represent a section of the paper punched tape, the stitched onto a silver background.



9M

Lynda Youd

The Union Flag

Representing British ingenuity and excellence in science and engineering a proud legacy which the world shares to this day providing valuable information and education for future generations. The surrounding border represents the beautiful colours of our universe and of our world here on earth. See also 8C.



9O

Becky Cowie

Gardeners in the Forest

I wanted to create a design that incorporated Orangutans, they play a vital role in the health of forests they live in. They are known as gardeners of the forest by dispersing seeds through their droppings they help maintain the health and diversity of the tropical forest. The daily nest building creates gaps in the canopy, allowing new life to flourish on the forest floor. Unfortunately, orangutans are critically endangered with all three species in severe decline due to habitat loss. We are in real danger of losing this beautiful animal if we do not act now. The design also incorporates the tree of life with the Spiral galaxy for the crown of the tree. I've added cricket stumps beneath the tree to represent Sir Bernard Lovell and a Grand Viol to represent Teresa Anderson MBE.



9J

Sharon Smyth

The design is of the Sun, or it can also be a shooting star. The moon can be seen next to it.



9N

Kelly Mallinson

See also 9G, 9I, 9S, 10A & 10C.



9L

Pamela Austin

21cm Hydrogen Lines Showing Pressure Arm and Local Spiral Arm.

Source: Fire Bernard Lovell 'Our present knowledge of the universe' (1967, Fig.20, Pg 57).



9P

Andrea Southern

The Cow of FLP

In my first week of working at Jodrell Bank a cow escaped and got onto the roof of the brand new First Light Pavilion. I've been thinking about her ever since.



9R

Adele Williams

Eva chose some pieces for 9x9 square for the quilt. We "fussy cut" out a crescent for the moon, some stars and an extra pink moon and a meteorite that has fell to earth. Eva pressed the button on the sewing machine to stitch the pieces out of the background and was in charge of the start and stop so we sewed in the right places. Eva chose a fancy stitch to sew some shooting stars and I finished things off by sewing a version of Eva point at the sky.



9T

Erika Chouhan

This piece honours Jodrell Bank's work tracking Sputnik, the first artificial satellite. That small, steady signal bridged Earth and space, marking the dawn of a new era. It is a powerful reminder of how the telescope allows us to hear the universe speaking back to us, and how those signals inspire science, art, and imagination alike.



9V

Rachel Pollitt

This square is dedicated to the memory of my dad, John Pollitt (1929-2023). He was an avid cyclist and would have known the Cheshire lanes around Jodrell very well. He always told us about Jodrell Bank and I remember driving past and him talking about it – proud of it even though what happened there was a bit of a mystery! He would have liked that bicycles were used to move around the site originally, so the bicycle represents that and his cycling career. See also 5W and 10U.



9Q

Corrie Ward

We have a four-year-old son and one year old daughter, we all have a fascination with the sky, regular staring at the stars and trying to find the planets, but we live in the city so don't often see much. On one recent family holiday to Anglesey where the sky is much clearer, our son learned there was a meteor shower and was determined to stay up and watch it. We grabbed our blankets and went to lie in on the grass bank it wasn't too long before we saw his first meteor shower! He was so excited, I wanted to capture the moment in the Jodrell Bank community project and inspire him and others to keep looking up!



9S

Kelly Mallinson

See also 9G, 9I, 9N, 10A & 10C.



9U

Erika Chouhan

Here I drew inspiration from Jodrell Bank's work monitoring near-Earth objects. Comets and meteors remind us of the dynamic relationships within our solar system and the intricate connections between celestial bodies. For me, this piece symbolises the interconnected web of the universe, in which every object plays its part, from galaxies to orbiting stones of ice and fire.



9W

Jackie Clark



9X

10. Origins 2

Olive Joyce Laing (age 11)

My grandma and grandad gave me my first sewing machine for Christmas my great granny loved sewing too, so I used some of her fabric to create a collage of my great Grandfather's telescope.



10A

Kelly Mallinson

See also 9G, 9I, 9N, 9SA & 10C.



10B

Erika Chouhan

The final panel shows a child (inspired by my own son) reaching towards a galaxy. This captures the awe and sense of possibility that Jodrell Bank fosters by expanding our view of the cosmos. My hope is that my son, and future generations, will be just as inspired by the discoveries made here to follow their curiosity and reach for great things.



10C

Kelly Mallinson

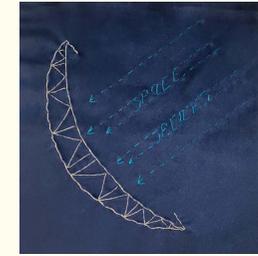
See also 9G, 9I, 9N, 9SA & 10A.



10D

Erika Chouhan

This work reflects Jodrell Bank's role in tracking the Apollo missions. The Moon landing represents one of the most powerful scientific breakthroughs of the 20th century, sending ripples of discovery through generations. Just as the Lovell Telescope quietly listens across the universe, the Apollo tracking was a moment when invisible waves carried human achievement across time and space.



10E

Margaret Gosley

I am a poet and artist and first became entranced by all that space out there when the JWST was first launched – in fact I think I sent you a poem. Around the same time, I watched and was inspired by a TV documentary about Jodrell Bank. Here's a poem that happened along side it and explains a little more of my response to radio astronomy.

Radio Silence?
Beyond our ears
Signals surf the waves
Cutting through our atmosphere
Messages in translation
Whilst Ariel explores the skies
Gathering celestial signals
A white light scribes
Invisible information



10F

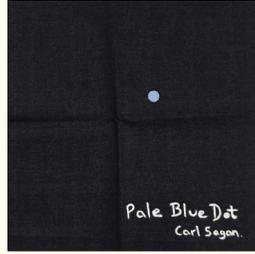
Sue Murray



10G

Evie Robinson (age 10)

This is my patch of the Solar System. The planets are orbiting the sun, interacting with each other in different ways. The small Lovell telescope symbol represents how small we are in this vast expanse of wonders and anomalies yet to be discovered.



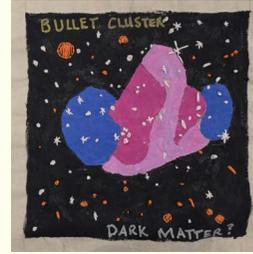
10I

Beverley Roberts

The Pale Blue Dot

The inspiration for my piece came from Carl Sagan and his description of the pale blue dot that we all call home. 'On it everyone you love everyone you ever heard of every human being that was ever was... every hero and coward... every king and peasant, every young couple in love, every mother and father, hopeful child... lived there, on a mote of dust suspended in a sunbeam'

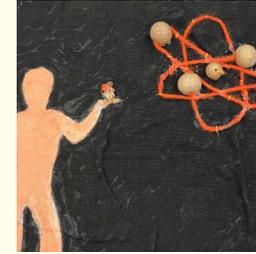
In his eighty years Jodrell Bank has increased our knowledge of the world's place in the universe, increased our understanding that we are all fragile species and as Carl Sagan says 'it underscores our responsibility to deal more kindly with one another, and to preserve and cherish the pale blue dot the only home we've ever known.'



10J

Geraldine Love

Cosmos = Bullet Cluster = Dark Matter = massive interest in quantum mechanics and astronomy.



10L

Marie Bergin

I created this piece to illustrate that atoms are everywhere around us. From the palm of our hand to the vast skies above us. It's both a grounding and inspiring thought at the same time, which creates a real sense of connection with the universe.



10H

Katie Holt

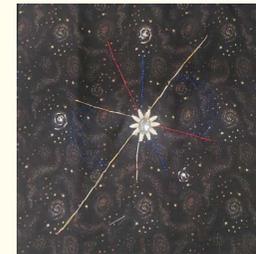
My inspiration was images of the Crab Nebula. I used a variety of fabrics sewn onto the background to represent the colours of these images when they were shown in the visible spectrum. The "graph" in the corner attempts to show that the Lovell telescope receives its data as radio waves.



10K

Heather MacDonald

Earth view from moon rocks



10M

Rona Ellison

My interpretation of quasar 3c 273. Believed to be the first quasar to be discovered in 1963.



10N

Abe Ridly-Cain (age 7)

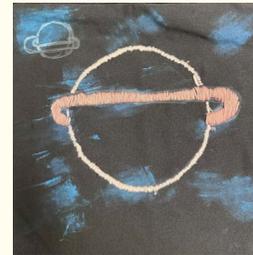
Watching my first solar eclipse inspired me to create this piece. I really enjoyed it – it was the best!



10P

Angela Worden

Pictures of Saturn + Jupiter.



10R

Eva Hardman

These patchwork fabric squares were completed by year 8 pupils from Llangollen, North Wales. The pupils completed the pieces using fabric from school but finished them at home.



10T

Jake Thorne and Snoof Kattekop

We created this work inspired by the theme Cosmic Connections. The robot represents humanity seeking to unravel the deepest mysteries of the universe which are depicted as a tardigrade. The braids were made by Jake Thorne who has memories of seeing a giant paper cup and string whispering gallery installation at Jodrell Bank on a childhood visit. The works were created in DoES Liverpool, a community makerspace in Liverpool, by Snoof Kattekop who, among other things, runs a STEM engineers CIC, to teach kids about science, tech and art. See also 10V.



10O

Zurqa Rasal

My first square is one of a black hole , complete with Hawking radiation. I find blackholes awe-inspiring. Even more, the diligence of scientist past and present who have worked out that black holes exist an then more recently, have captured and image of growing gas building into a black hole millions of light years away. The title of the image that inspired me of 'The event horizon at the centre of galaxy M87' the blackhole is 6.5 billion times more massive than the sun. See also 6M.



10Q

Sarah Martin

I have always been fascinated by star signs and so used the star sign of a couple of my friends and my own.



10S

Elise Hopwood

These patchwork fabric squares were completed by year 8 pupils from Llangollen, North Wales. The pupils completed the pieces using fabric from school but finished them at home.



10U

Ruth Pollitt

Jodrell: Shoot for the Stars
Inspired by the medieval archer called William Jaudrell whose descendants once owned the land where Jodrell Bank telescope is located today. The spelling of the name changed over the years and today is not

as Jodrell. I've tried to reflect the different spellings in the thread colours. Materials: Black cotton and coloured threads, gold thread and gold plastic stars. Machine and hand sewn. See also 5W and 9V.



10V

Jack Thorn and Snoof Kattekop

See 10T.



10W

Isabella Hannabuss-Wrench

I'm 10 years old, here's my submission for the cosmic Threads, my patch has all the Zodiac constellations: Capricorn, Aquarius, Pices, Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio and Sagittarius. I really enjoyed making this.



10X

James + Ros Brand Donation

My son James is autistic and Jodrell Bank has been one of his favourite places for a number of years. He is excited about the 80th anniversary and the idea of the quilt and has selected a piece of fabric, which he feels is what Jodrell Bank is about for him.

Humans have always looked up at the skies and marvelled at the Sun, Moon, planets and stars, in an attempt to understand our own sense of place and purpose, here on Earth. For 80 years, Jodrell Bank has been at the forefront of that quest for understanding and at the heart of groundbreaking discoveries and world-leading research.

Jodrell Bank's inspirational story includes revolutionary scientific discoveries, incredible feats of engineering, the dawn of the Space Age and the creation of the Grade I listed Lovell Telescope, an icon for science and engineering. Today Jodrell Bank is owned and managed by the University of Manchester and is a world-leading science research institute, with scientists working at the cutting edge of modern astrophysics.

In 2019 Jodrell Bank was recognised as a site of Outstanding Universal Value and inscribed on the UNESCO World Heritage Site list.
