FULLDOME SHOW CATALOGUE
A fury is building on the surface of the Sun—high-velocity jets, a fiery tsunami wave 100,000 kilometers high, rising loops of electrified gas. What's driving these strange phenomena? How will they affect planet Earth? Find the answers as we venture into the seething interior of our star.

Solar Superstorms is a major new production that takes viewers into the tangle of magnetic fields and superhot plasma that vent the Sun’s rage in dramatic flares, violent solar tornadoes, and the largest eruptions in the solar system: coronal mass ejections.

The show features one of the most intensive efforts ever made to visualize the Sun's inner workings, including a series of groundbreaking scientific visualizations computed on the giant supercomputing initiative, Blue Waters, based at the National Center for Supercomputing Applications, University of Illinois.

A co-production of Spitz Creative Media, NCSA’s Advanced Visualization Lab, and Thomas Lucas Productions. Narrated by Benedict Cumberbatch; with major support from the National Science Foundation and the Pennsylvania State Film Office.

Solar Superstorms explores related content including:

• The Earth-Sun relationship
• Importance of magnetic fields in space
• The nature of polar auroras
• Space weather and the threat to communications and power networks
• Monitoring solar behavior

Running Time: 24 minutes
Release Date: 2015
The impulse to strike out into the unknown, to see what's over the horizon... is as old as humanity. Today, a whole new horizon beckons. Scientists now believe that our galaxy is filled with solar systems, including up to 9 billion Sun-like stars with planets similar to Earth.

Astronomers are racing to find habitable worlds, including any that might exist in the neighborhood of our Sun. But if we find one, how will we ever get there? How long will it take? What rocket designs might one day conquer the voids of space?

Faster Than Light! the Dream of Interstellar Flight will dazzle audiences with virtual rides aboard spacecraft of the future. They are based on whole new technologies designed to achieve ultra-high speeds, using exotic next generation rocket fuels and breakthrough concepts in physics. How far can our technology take us?

A co-production of Spitz Creative Media, Mirage3D, Thomas Lucas Productions, Inc. This project is supported by the Commonwealth of Pennsylvania and the Pennsylvania Film Office.

Running Time: 25 minutes
Release Date: 2016
**DYNAMIC EARTH**

*Dynamic Earth* explores the inner workings of Earth’s great life support system: the global climate. With visualizations based on satellite monitoring data and advanced supercomputer simulations, this cutting-edge production follows a trail of energy that flows from the Sun into the interlocking systems that shape our climate: the atmosphere, oceans, and the biosphere. Audiences will ride along on swirling ocean and wind currents, dive into the heart of a monster hurricane, come face-to-face with sharks and gigantic whales, and fly into roiling volcanoes.


**Running Time: 24 minutes**  
**Release Date: 2012**

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**BLACK HOLES: THE OTHER SIDE OF INFINITY**

Seen by millions worldwide, *Black Holes: the Other Side of Infinity* features high-resolution visualizations of cosmic phenomena, working with data generated by computer simulations, to bring the current science of black holes to the dome screen. Audiences will be dazzled with striking, immersive animations of the formation of the early universe, star birth and death, the collision of giant galaxies, and a simulated flight to a super-massive black hole lurking at the center of our own Milky Way galaxy.

Thomas Lucas Productions in association with Denver Museum of Nature & Science, NOVA and NCSA’s Advanced Visualization Lab; supported by grants from NASA’s high-energy GLAST telescope project and the National Science Foundation. Narrated by Liam Neeson.

**Running Time: 24 minutes**  
**Release Date: 2007**
INCOMING!

Asteroids and comets have collided with our planet throughout its history, changing the course of life on Earth and shaping the world we know today. Narrated by George Takei, Incoming! explores the past, present, and future of our Solar System and the landmark discoveries scientists have made sending spacecraft to visit tiny worlds. Cutting-edge visualizations bring data from current NASA missions to life while taking audiences on a ride through the dynamic story of our cosmic origins. We’ll learn what these impacts from above can teach us—and how scientific advances may allow us to find and track cosmic threats before they reach planet Earth. California Academy of Sciences.

Running Time: 26 minutes
Release Date: 2016

TO SPACE & BACK

Space exploration—our greatest adventure—is having a big impact on our lives. It’s helping us to discover a universe of unimaginable scale and beauty, and it’s reaching down into our world and influencing how we live. To Space & Back is an extraordinary story of human ingenuity and incredible engineering, describing how the technology that transports us through space is paving the way for the devices and apps we use every day. What’s happening above is coming back down to Earth! Produced by Sky-Skan in association with The Franklin Institute; narrated by James May. Up to 8k, 2D/3D, at 60fps.

Running Time: 25 minutes
Release Date: 2012
**DARK UNIVERSE**

*Dark Universe* celebrates a new age of cosmic discovery as well as its deepest mysteries. The show features spectacular scenes of recent spacecraft, such as the Galileo probe’s breathtaking plunge into Jupiter’s atmosphere; the most accurate visualizations ever produced, such as a Milky Way galaxy spangled with exploding supernovas, and novel renderings of hotly discussed phenomena, like dark matter. *Dark Universe* was developed by the American Museum of Natural History, New York, in collaboration with the California Academy of Sciences, San Francisco; and GOTO Inc, Tokyo, Japan.

**Running Time:** 24 minutes  
**Release Date:** 2013

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**JOURNEY TO THE STARS**

Featuring extraordinary images from ground- and space-based telescopes and never-before-seen visualizations of physics-based simulations, *Journey to the Stars* launches visitors through space and time to experience the life and death of stars including our own nurturing Sun. Tour familiar stellar formations, explore new celestial mysteries, and discover the fascinating, unfolding story that connects us all to the stars. Narrated by Whoopie Goldberg. American Museum of Natural History.

**Running Time:** 24 minutes  
**Release Date:** 2009

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**COSMIC COLLISIONS**

*Cosmic Collisions* launches visitors on a thrilling trip through space and time to explore cosmic collisions, hypersonic impacts that drive the dynamic and continuing evolution of the universe. Groundbreaking scientific simulations and visualizations depict the dramatic and explosive encounters that shaped our solar system, changed the course of life on Earth, and continue to transform our galaxy. Narrated by award-winning actor, director, and producer Robert Redford. American Museum of Natural History.

**Running Time:** 20 minutes  
**Release Date:** 2006

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Visit us at [WWW.SPITZINC.COM](http://WWW.SPITZINC.COM) for detailed show descriptions.
WE ARE ALIENS!

Earth. It's now a small world. The human race is connected better and faster than ever before but what about elsewhere? Could we one day be part of a galactic community sharing our knowledge and ideas? Or is Earth the only planet with life? From the creators of ASTRONAUT and We Are Astronomers, We Are Aliens! takes you on an epic ride in the hunt for the evidence of alien life. Once again this award-winning studio brings you a production that finely balances science, education and family entertainment. 2D/3D. NSC Creative.

Running Time: 24 minutes
Release Date: 2012

WE ARE ASTRONOMERS

We Are Astronomers, narrated by David Tennant, is an exciting production that reveals the global collaboration, technology and dedication required to answer the unresolved questions of the universe. The show has been created with input from UK astronomers and in partnership with planetariums throughout the UK. Collaborators include: the Armagh Planetarium, Centre For Life, INTECH Science Centre & Planetarium, National Space Centre, Our Dynamic Earth, Royal Observatory Greenwich and Spaceport, with funding from the Science and Technology Facilities Council. NSC Creative.

Running Time: 25 minutes
Release Date: 2009

STARS

Every star has a story. Some are as old as time, faint and almost forgotten. Journey to the furthest reaches of our galaxy and experience both the awesome beauty and destructive power of stars. Suitable for audiences of all ages, this dramatic program features the voice talent of Mark Hamill and stunning 3D animation by NSC Creative. Educational content includes stellar evolution, space exploration, the electromagnetic spectrum, and the history of astronomy. Sudekum Planetarium at the Adventure Science Center.

Running Time: 26 minutes
Release Date: 2008
WE ARE STARS

What are we made of? Where did it all come from? Explore the secrets of our cosmic chemistry, and our explosive origins. Connect life on Earth to the evolution of the Universe by following the formation of Hydrogen atoms to the synthesis of Carbon, and the molecules for life. With expert input from leading scientists—cosmologists, astrophysicists, astrochemists, planetary scientists and astrobiologists—we present humanity’s current understanding of where everything, including us, came from. Produced by NSC Creative; narrated by Andy Serkis; music by Rhian Sheehan. Up to 8k, 2D/3D, at 60fps.

Running Time: 25 minutes
Release Date: 2015

ASTRONAUT 2012

ASTRONAUT takes you from Earth into space... and beyond. Experience a rocket launch from inside the body of an astronaut. Explore the amazing worlds of inner and outer space, from floating around the International Space Station to maneuvering through microscopic regions of the human body. Discover the perils that lurk in space as we subject ‘Chad,’ our test astronaut, to everything that space has to throw at him. ASTRONAUT is an experience like nothing on Earth. 2D/3D. National Space Centre.

Running Time: 23 minutes
Release Date: 2012
**THE SEARCHER**

Encounter *The Searcher*, a visitor from another galaxy, and join him on an adventure through time and space as he searches for his lost civilization. This science fiction adventure is based on real science and features stunning data visualizations of the formation of our universe, the collision of two galaxies, a spectacular supernova explosion, and a supermassive black hole. Adler Planetarium.

**Running Time:** 25 minutes  
**Release Date:** 2012

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**PLANET 9**

With all the controversy surrounding Pluto’s status as a planet it is easy to lose track of the bigger story—a rich new class of worlds is being uncovered in the outer solar system. These discoveries strongly suggest that there may be an unknown world, far beyond the other eight planets, a world much larger than anything discovered in that region so far. Come join astronomer Mike Brown, “Pluto Killer,” on the journey toward the scientific discovery of the century—the discovery of Planet Nine. Adler Planetarium/Kavli Institute for Cosmological Physics.

**Running Time:** 28 minutes  
**Release Date:** 2016
REALM OF LIGHT: CHRONICLE OF THE COSMOS

Realm of Light recounts the incredible story of life on Earth. From the Big Bang to the modern age of humankind, viewers of all ages will be inspired by the marvel of nature and the power of human curiosity through this immersive dome experience. Both poetic in its words and philosophical in its ideas, Realm of Light elegantly tells the 13 billion-year story of our universe in a way that lifts both the heart and the mind.

Running Time: 24 minutes
Release Date: 2009

WILDEST WEATHER IN THE SOLAR SYSTEM

Join National Geographic on a spectacular journey to witness the most beautiful, powerful, and mysterious weather phenomena in the solar system. From a storm the size of a 100-megaton hydrogen bomb, to a 400-year-old hurricane, to a dust tempest that could engulf entire planets, you’ll be glad you live on Earth! Wildest Weather In the Solar System is complemented by a wide array of online educational resources. 2D/3D. National Geographic.

Running Time: 24 minutes
Release Date: 2011

COSMIC JOURNEY: A SOLAR SYSTEM ADVENTURE

Starting from the outermost reaches of the solar system, take a cosmic journey from Pluto to Earth. Zoom past planets, revolving above you. See ringed systems of the outer planets and the detail of various moons, all digitally rendered using real images from satellites. Finally, return home to Earth, and contrast our home planet with the other worlds you’ve explored. Denver Museum of Nature & Science.

Running Time: 24 minutes
Release Date: 2010
FROM DREAM TO DISCOVERY: INSIDE NASA

Join NASA’s engineers as they design, test, and launch today’s hottest missions into space. Witness the enormity of the new James Webb Space Telescope, the intensity of Goddard Space Flight Center’s testing facilities, and the excitement of the New Horizons mission to Pluto. From blueprint to blastoff, experience how unmanned space flight is pushing the frontiers of human exploration to the very edges of the universe! Produced by the Museum of Science, Boston.

Running Time: 30 minutes, 25 minutes
Release Date: 2015
MOONS: WORLDS OF MYSTERY

Moons: Worlds of Mystery immerses you in the amazing diversity of moons and tells the story of their important role in shaping our solar system. Follow in the footsteps of astronauts to our silvery Moon, and then venture beyond to unfamiliar and exotic worlds: the outer planets and their moons. We’ll return home with new-found wonder about the dynamic and intricate solar system in which we all live.

Museum of Science, Boston.

Running Time: 26 minutes
Release Date: 2013

UNDISCOVERED WORLDS: THE SEARCH BEYOND OUR SUN

Undiscovered Worlds: The Search Beyond Our Sun explores a timeless question: Are there other planets like Earth? Travel to distant stars and fly up close to exotic planets. Experience the science shifting our perspectives on humanity’s place in the cosmos. Co-written with Alan Lightman, this show features an original orchestral score. Suitable for family audiences and school groups. Educator’s guide available. Museum of Science, Boston.

Running Time: 30 minutes
Release Date: 2011
EDGE OF DARKNESS

Edge of Darkness features amazing scenes of places never before seen gathered by key space missions that culminated with groundbreaking discoveries in 2015. Experience a spectacular flight though the great cliffs on comet 67P, take a close look at the fascinating bright “lights” on Ceres, and witness the first ever close-ups of dwarf binary planet Pluto/Charon and its moons.

E&S Digital Theater; narrated by Hayley Atwell, Agent Carter, from the Marvel Cinematic Universe and the ABC television series.

Running Time: 25 minutes
Release Date: 2015

AURORA: LIGHTS OF WONDER

Experience the aurora borealis as if you were there, thanks to the pioneering work of astrophotographer Kwon O Chul. The movie does not feature the typical time-lapse images, but instead: high-resolution, hemispherical video recorded in real-time with a special low-light camera system that captures the subtle detail, colors, dynamism and beauty of the aurora. In addition, scientific explanations and beautiful art work about the legend of the aurora are featured throughout the movie. Filmed on location in Yellowknife, Yukon Territory. Produced by HugMedia, in association with COSMODREAM, DONG A SCIENCE and METASPACE.

Running Time: 29 minutes, 25 minutes
Release Date: 2016

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ASTRONOMY & SPACE SCIENCE
GRAVITY REVEALED

Why do things fall? They don’t drop from down to up, or from left to right. If an object is not supported it will surely fall until it hits the ground. The reason is, of course, gravity: the pull of the Earth, the attractive force. But what if that attractive force didn’t actually exist? If there’s no pull, what causes objects to fall? The answer to that question is an amazing one indeed. It’s time to unlock the secrets of gravity…in Gravity Revealed! Starlight Studios.

Running Time: 25 minutes
Release Date: 2015

DAWN OF THE SPACE AGE

Relive the excitement of the early days of space exploration, from the launch of the first artificial satellite Sputnik, to the magnificent lunar landings and privately operated space flights. Be immersed and overwhelmed with this most accurate historic reconstruction of Man’s first steps into space. Who were these men and women that took part in these death-defying endeavors? Witness their drive, their passion, and dedication to explore in Dawn of the Space Age. 2D/3D. Mirage3D.

Running Time: 41 minutes, 30 minutes
Release Date: 2007

OASIS IN SPACE

One of Spitz’s most popular fulldome shows, Oasis In Space transports the audience on a startling and beautiful voyage through our universe, galaxy and solar system in search of liquid water, a key ingredient for life on Earth. With a proven, audience-tested story, and an original surround format musical score, Oasis In Space will delight viewers of all ages. Spitz Creative Media.

Running Time: 24 minutes
Release Date: 2003
THE SEARCH FOR LIFE: ARE WE ALONE?

Does life exist anywhere else in the universe? Ancient mythologies and contemporary science fiction have presented imaginative possibilities, but how does modern science approach this question? The Search for Life: Are We Alone? begins to answer this intriguing question in a breathtaking show narrated by Harrison Ford. American Museum of Natural History.

Running Time: 20 minutes
Release Date: 2002

EXPRESS THE AURORA

Experience the Aurora is the next best thing to being in the Arctic Circle during winter. Marvel as the Northern Lights shimmer overhead in time-lapse footage captured over a seven-month period in Alaska, Norway and Sweden. Unearth the science behind auroras, and learn about mankind’s quest to find and understand this incredible phenomenon. E&S Digital Theater.

Running Time: 24 minutes
Release Date: 2011

SECRET LIVES OF STARS

Some stars are massive. Others are tiny; almost insignificant. The specific characteristics of a star will determine what type of life it will lead and how long it might live. We will witness the amazing variety of stars and peer into their secret lives. Narrated by Sir Patrick Stewart. E&S Digital Theater.

Running Time: 25 minutes
Release Date: 2011

VIOLENT UNIVERSE: CATASTROPHES OF THE COSMOS

The beauty of a starlit sky conceals the violent forces at work within our universe. Witness the forces that hold the universe together—and occasionally try to rip it apart. Narrated by Sir Patrick Stewart. E&S Digital Theater.

Running Time: 25 minutes
Release Date: 2010
ROBOT EXPLORERS
Near the end of the twentieth century, we began launching unmanned probes into the far reaches of the solar system. What they discovered was amazing and in some cases unexpected. New space missions are underway, and many of these robust spacecraft are still operational, beaming their knowledge back to Earth daily. We will pay tribute to these robots that have explored in our place and experience what they have taught us about our solar system. 2D/3D. E&S Digital Theater.
Running Time: 25 minutes
Release Date: 2012

INVADERS OF MARS
This show highlights our ongoing exploration of Mars. We view the Martian surface as seen by Earth spacecraft “invaders.” We fly over the great chasms, canyons and volcanoes; descend to a Martian polar cap, and are buffeted by swirling dust devils. E&S Digital Theater.
Running Time: 24 minutes
Release Date: 2008

ICE WORLDS
The delicate balance between ice, water and the existence of life has been a topic of scientific research for generations. We will examine ecosystems in the Arctic and Antarctic and see how their survival is connected with our own. Beyond Earth, we’ll see how ice shapes the landscape and the natural systems on other planets and moons in our solar system. Narrated by Emily Watson. E&S Digital Theater, University of New Hampshire, Houston Museum of Natural Science, with the support of the National Science Foundation.
Running Time: 24 minutes
Release Date: 2008

EXPLODING UNIVERSE
Explosive events have shaped and transformed the universe, and the Earth itself, into what it is today. And not all have been on a grand scale. Throughout this constant evolution of the universe, some of the most elementary particles have still managed to endure. Exploding Universe follows the path of one particle, a proton, as it participates in some of nature’s most astounding events of rebirth and renewal: from supernovae and colliding black holes to supervolcanoes and proton collisions. Clark Planetarium Productions.
Running Time: 30 minutes
Release Date: 2013
While on a routine fossil-hunting expedition, *The Zula Patrol* turns up evidence that the villainous Deliria Delight has been travelling back in time to Earth’s prehistoric past to illegally dump her company’s toxic trash. The Zula Patrollers must find and catch her. In the process, our heroes learn all about the formation and development of Earth, and the life forms who call it home. Spitz Inc. and Zula USA.

National Science Education Standards (NSES) for Grades K–4 include the following Content Standards:

- **Science as Inquiry:** understanding about scientific inquiry
- **Physical Science:** properties of objects and materials, position and motion of objects
- **Life Science:** the characteristics of organisms, life cycles of organisms, organisms and environments
- **Earth and Space Science:** properties of earth materials, objects in the sky, changes in Earth and sky
- **Science & Technology:** understanding about science and technology, abilities to distinguish between natural objects and objects made by humans
- **Science in Personal and Social Perspectives:** characteristics and changes in populations, types of resources, changes in environments
- **History & Nature of Science:** science as a human endeavor

**Running Time:** 24 minutes  
**Release Date:** 2010
LEGENDS OF THE NIGHT SKY: ORION

Legends of the Night Sky: ORION is the world’s first traditionally animated fulldome movie. Legends takes an imaginative look at the stories and legends about Orion, the great hunter of the winter sky. It’s ideal for family audiences and younger viewers. Greek mythology will never seem the same once you’ve seen this fun-filled production from AudioVisual Imagineering and Spitz Creative Media.

Running Time: 24 minutes
Release Date: 2003

THE ZULA PATROL: UNDER THE WEATHER

The stalwart heroes of The Zula Patrol are on an expedition collecting samples of weather for scientist Multo’s research. When the Zula gang inadvertently hurts their loyal pet Gorga’s feelings, he decides to leave Zula and find another planet to live on.

Villain Dark Truder then tricks Gorga into helping with his latest nefarious scheme to rule the universe. The Zula Patrollers find out and go after him—in the process learning all about weather, both terrestrial and interplanetary.

Based on the hit TV series, The Zula Patrol, now reaching 200 million households worldwide. Spitz, Inc. and Zula USA.

Running Time: 24 minutes
Release Date: 2007
EARTH, MOON AND SUN

Coyote has a razor-sharp wit, but he's a little confused about what he sees in the sky. Join this amusing character (adapted from American Indian oral traditions) in a fast-paced and fun show that explores lunar phases, eclipses and other puzzles. Engaging and immersive, Earth, Moon & Sun also examines how humans learn through space exploration. A perfect show for school audiences!

UNC Morehead Planetarium and Science Center.

Running Time: 26 minutes
Release Date: 2010

GROSSOLOGY

A wise respiratory system once said, “Gross is in the eye of the beholder.” After watching this planetarium show, you may start thinking differently about the “gross” side of the human body and what it does to protect us every day. Join Noreen Neuron, host of the “Personal Universe” game show, as she leads us through a competition to decide which body system is the best and brightest. Will it be Scabby (the immune system), Boogie (the respiratory system) or Flatus (the digestive system)? Laugh and learn as these animated characters explore the inner workings of the human body!

UNC Morehead Planetarium and Science Center.

Running Time: 27 minutes
Release Date: 2014
TAKE FLIGHT
Join Wilbur and Orville Wright on an adventure through the history and future of aeronautics! Learn about the four forces of flight—lift, weight, thrust and drag—with demonstrations by the Wright brothers, and share discoveries with Leonardo da Vinci as he creates his “flying machine.” You’ll meet Bessie Coleman, the first woman of African American and Native American descent to hold a pilot’s license; break the sound barrier with Chuck Yeager; and cross the Atlantic with Amelia Earhart. UNC Morehead Planetarium and Science Center.
Running Time: 22 minutes
Release Date: 2016

COCOMONG: A SPACE ADVENTURE
Cocomong is very curious about space. But reading about space in books makes it seem so far away. That's when Halley, a friendly alien, drops in! Halley has come to ask Cocomong help him rescue his parents and protect the last remaining Star Gem from the evil Virus King! However, Halley's home on Titan is really far away—even farther than Mars or Jupiter. Will our rescuers get there safely? “I guess we won't know until we go,” says Cocomong. So begins their rescue mission and great space adventure. Metaspace and Digital Creature.
Running Time: 19 minutes
Release Date: 2012

MAGIC TREE HOUSE® SPACE MISSION
Based on the beloved Magic Tree House book series, Magic Tree House Space Mission launches the intrepid Jack and Annie on a fun-filled journey to discover the secrets of the Sun, Moon, planets, space travel and more. Aligned with early elementary information skills-learning objectives, this beautifully produced show is a winner with Magic Tree House fans of all ages and school audiences alike. UNC Morehead Planetarium and Science Center.
Running Time: 30 minutes
Release Date: 2010

KEY TO BIRD ISLAND
How does the world hold together? Where does the North Star point? What is the Bird Island? Join Alice and Thomas as they find answers on their magical journey, all the while meeting pirates, wise men and other mysterious characters. Help them find the mystical jewel and save the enchanted World Behind the Library! Brno Observatory and Planetarium.
Running Time: 28 minutes
Release Date: 2016
KALUOKA‘HINA: THE ENCHANTED REEF

One of the most precious resources of Earth’s oceans is Kaluoka‘hina, the enchanted reef whose magic protects it from being found by humans. Kaluoka‘hina’s colorful inhabitants have thus always lived in peace...until the volcano erupts, and the spell is broken. Now it’s up to the young sawfish Jake and his paranoid pal Shorty to restore the magic of Kaluoka‘hina. 2D/3D. Softmachine GmbH.

Running Time: 32 minutes
Release Date: 2004

DARKSTAR ADVENTURE

After spending three years at her father’s astronomy research station, Subrah, a teenager bored by science, is excited about leaving—and not a moment too soon. The planet’s sun is about to explode. When a technical glitch launches Subrah’s father into space without her, she has to make her own getaway and return safely home again. Spitz Creative Media.

Running Time: 28 minutes
Release Date: 2005

THE MOON

The Moon is available as a linear or interactive, presenter-led show, covering the following topics: the observable features of the moon, the apparent daily motion of the moon, the pattern of change in the moon’s appearance/moon phases. Related hands-on activities can be added to round out a complete learning experience for early elementary students. AudioVisual Imagineering.

Running Time: 18 minutes
Release Date: 2012

THE WEATHER

The Weather is available as a linear or interactive, presenter-led show. Module One connects children to the weather around them and encourages them to use their senses to observe weather. It introduces basic cloud types, their association with specific weather conditions, and the concept of weather forecasting. Module Two introduces basic terms for weather conditions, and the instruments used to study and measure weather. In Module Three, children follow a drop of water through the entire water cycle. AudioVisual Imagineering.

Running Time: 16 minutes
Release Date: 2013
THE LITTLE STAR THAT COULD
A story about Little Star, an average yellow star in search of a planet of his own to protect and warm. Along the way, he meets other stars, learns what makes each star special, and discovers that stars combine to form star clusters and galaxies. AudioVisual Imagineering.
Running Time: 35 minutes
Release Date: 2008

MOLECULARIUM: RIDING SNOWFLAKES
Molecularium™ blends scientific simulations with kid-friendly characters to introduce young people to the world of atoms and molecules. The project has brought together a team of researchers, artists, museum curators and educators, technology designers, musicians, performers, elementary school teachers, students, and professors to create a truly unique experience. Rensselaer Polytechnic Institute.
Running Time: 23 minutes
Release Date: 2005

PERFECT LITTLE PLANET
Discover our solar system through a new set of eyes—a family from another star system seeking the perfect vacation spot. Fly over the surface of Pluto, our best known Dwarf Planet. Dive over the ice cliffs of Miranda. Sail through the rings of Saturn. And walk on the surface of Mars. This is the solar system journey for space travelers of all ages. Clark Planetarium Productions.
Running Time: 35 minutes
Release Date: 2012

THE ACCIDENTAL ASTRONAUTS
Follow the adventures of Sy, Annie, their dog Armstrong, and a wise-cracking starship computer, as they embark on an unexpected journey into space! Bounce along with these new explorers on the surface of the Moon, get up close and personal with a solar storm, and gain a new appreciation of our home planet. The Accidental Astronauts is a space adventure for all ages. Clark Planetarium Productions.
Running Time: 35 minutes
Release Date: 2015
Take to the skies and discover the origins of flight. **Dinosaurs at Dusk** is a learning adventure of a father and his teenage daughter Lucy who share a fascination for all things that fly. You’ll travel back in time to meet the pterosaurs and the ancestors of modern day birds: the feathered dinosaurs. Lucy and her father will navigate from continent to continent to look for clues for the origins of flight until time runs out and they experience first-hand the cataclysmic last day of the dinosaurs.

Science content includes topics such as continental drift, proper motion of stars, asteroids and impacts, extinctions and the convergent development of flight among species. **Mirage3D. 2D/3D.**

**Running Time:** 29 minutes, 41 minutes

**Release Date:** 2014
You are made of 70 trillion living cells. They work. They talk. They think. They are what make you alive. This is the story of the trillions of cells that form our bodies, from our beginnings as a single cell to the complexity of a whole body; it’s the story of who we are.

Join Raj and Sooki on a totally ex-CELL-ent immersive journey. Get shrunk down by the Shrink-a-tron, go back in time with the Retroscope and see an exploded view of all the body systems courtesy of the cell-o-tron. Produced by NSC Creative and INTECH Science Centre and Planetarium, supported by Wellcome Trust.

Running Time: 24 minutes
Release Date: 2012

The Life of Trees

*The Life of Trees* shows the importance of plants for life on Earth, how trees grow, how they transport water against gravity to the top of the crown, how photosynthesis works and how trees have enabled diverse life on Earth by producing oxygen. The story is told by two quirky characters: a ladybug called Dolores and a firefly called Mike. 2D/3D. Softmachine GmbH.

Running Time: 25 minutes
Release Date: 2012
LIFE: A COSMIC STORY

Begin your journey by shrinking down to enter a single redwood leaf, and discover that all life on Earth shares a common ancestry. Then travel through time to witness key events since the Big Bang—from the first stars to the formation of the solar system—that set the stage for life. Along the way, you will see two scenarios for the dawn of life on early Earth, and discover how our planet has changed since those microscopic beginnings. Narrated by Academy Award winner Jodie Foster. California Academy of Sciences.

Running Time: 24 minutes
Release Date: 2011

OUR CELLS, OURSELVES

Our Cells, Ourselves explores the immune system, giving children and their families an understanding of how the body protects itself. We start with a bedtime story told to seven-year old Sylvie, who was recently diagnosed with diabetes. In a dream-like sequence, we travel back to the primitive ocean, and discover the beginning of metazoan life and its basic needs for food and protection from other organisms. We learn how the immune system evolved, then take a look at the future of regenerative medicine therapies that rely on harnessing the body’s own restorative potential through the use of stem cells. Regenerative Medicine Partnership in Education.

Running Time: 15 minutes
Release Date: 2008

NANOCAM

Nanocam explores the kingdoms of bacteria and protists, the amazing structure of fungi, the specializations of plants and the complexity of the animal kingdom, seen through an electron microscope—a breathtaking trip into the five kingdoms of living things. This unique program, featuring never-before-seen images, offers another dimension of reality: one that is measured in micrometers. El Exilio Productions.

Running Time: 27 minutes
Release Date: 2010

ORIGINS OF LIFE

Origins of Life explores some of the most profound questions of life science: the origins of life and the human search for life beyond Earth. Show content includes the prebiotic chemistry in the universe, the formation of stars, solar systems, the first life on Earth and great extinctions. Origins of Life demonstrates that if there was ever a time that science made its greatest advances, it’s right now! Mirage3D.

Running Time: 23 minutes
Release Date: 2005
NATURAL SELECTION

_Natural Selection_ celebrates the 150th anniversary of the publication of _On the Origin of Species_ and the 200th anniversary of Charles Darwin’s birth. In _Natural Selection_ we will join Darwin on his voyage with the HMS Beagle to the Galapagos Islands where he was inspired to develop his later theory of transmutation by natural selection.

From the comfort of Down House in Kent, Darwin himself will explain the mechanism of natural selection to the audience, and support it by showing many beautiful examples in nature. The thrill of a scientific discovery, the adventure of science and the beauty of nature are central in this show. Mirage 3D. 2D/3D.

**Running Time:** 29 minutes, 41 minutes

**Release Date:** 2010
The scene was 74,000 years ago, on the island of Sumatra. A volcanic eruption triggered the sudden and violent collapse of a vast regional plateau. Toba, as the volcano is known today, was the largest volcanic eruption in the last 25 million years. But Earth has seen far larger. 250 million years ago, an eruption in what’s now Siberia lasted a million years and was probably responsible for the greatest episode of mass extinction in Earth’s history.

The award-winning Supervolcanoes looks back at rare classes of eruptions that have marshaled the energy that lurks, like a sleeping dragon, beneath the surface of planet Earth. The program moves beyond Earth to explore the impact of giant volcanic eruptions around our solar system. Audiences will fly down to Neptune’s frigid moon Triton, and onto the ultimate volcanic world: Jupiter’s moon Io. On a visit to a legendary North American hot spot, Yellowstone National Park, the film asks: can a supervolcano erupt in our time?


Running Time: 24 minutes
Release Date: 2013
HABITAT EARTH

Plunge below the ocean’s surface to explore the dynamic relationships found in deep ocean ecosystems; dig beneath the forest floor to see how Earth’s tallest trees rely on tiny fungi to survive; and soar to new heights to witness the intricate intersection between human and ecological networks. Narrated by Frances McDormand, the award-winning Habitat Earth features stunning visualizations of both biological and human-built networks (and of how they intersect), taking show-goers on an incredible, immersive journey through the interconnectedness of life on Earth. California Academy of Sciences.

Running time: 24 minutes
Release Date: 2015

FRAGILE PLANET

Fragile Planet, a virtual journey from Earth to the outer reaches of the universe and back, reveals how special our planet really is. Lift off through the atmosphere to gain an astronaut’s view of Earth, then travel to the Moon, Mars, and beyond to search for habitats that might support life. Narrated by Sigourney Weaver. California Academy of Sciences.

Running Time: 25 minutes
Release Date: 2008

EARTHQUAKE

Earthquake explores the forces that transform the surface of our planet. After a stunning flight over the San Andreas Fault, travel back in time to experience San Francisco’s infamous 1906 earthquake. Data-driven visualizations illustrate Earth’s story, revealing how subtle motions and sudden ruptures have shaped our planet over eons—and how geological activity influences the course of human history. Finally, we see how scientists and engineers help society prepare for a safer future. California Academy of Sciences.

Running Time: 22 minutes
Release Date: 2012
The Sami are some of Europe’s last indigenous peoples, reindeer herders who for thousands of years have lived a nomadic lifestyle in the Arctic wilderness. In their homeland, spread across northern Norway, Sweden, Finland, and Russia, the notion of time is untethered from the cycles of the sun and is tied instead to something far more important: the movement of the reindeer. Experience spectacular aurora displays and visualizations of local folktales about the aurora as you accompany the Sami on their annual “reindeer walk” 200 miles north of the Arctic Circle. BTS Media, Mirage3D and Winner Pictures. 2D/3D.

Running Time: 42 minutes, 22 minutes
Release Date: 2016
LAMPS OF ATLANTIS
Our search for the lost continent of Atlantis takes us on a journey through the astronomical knowledge and understanding of the ancient Greeks. How did the constellations get their names? What different patterns did ancient cultures see in the sky? Was Atlantis a real place? Did it really sink into the sea? We will uncover clues to help us solve this age-old mystery. Narrated by Terry O’Quinn, John Locke from TV’s LOST. E&S Digital Theater.
Running Time: 25 minutes, 40 minutes
Release Date: 2012

THE DREAM TO FLY
Discover the mystery of flight with Leonardo da Vinci, the Montgolfier brothers, the Wright brothers and other inventors in this poetic story about the history of aviation. It presents the milestones on our route to conquering the skies—both in terms of technological breakthroughs, as well as our perceptions on flying itself. Copernicus Science Centre.
Running Time: 35 minutes
Release Date: 2013

SEVEN WONDERS
Turn back the pages of time and witness the ancient wonders of the world as they have not been seen for thousands of years. We will investigate the theories of how these wonders were created and get a glimpse of some of the universe’s greatest wonders. Seven Wonders is narrated by British actor Sean Bean, from TV’s Game of Thrones. E&S Digital Theater.
Running Time: 30 minutes
Release Date: 2007

STARS OF THE PHARAOHS
Travel to ancient Egypt to see how science was used to tell time, make a workable calendar, and align huge buildings. You’ll learn about the connection the ancient Egyptians felt with the stars and various astronomical phenomena, and see some of the most spectacular temples and tombs of the ancient world recreated in their original splendor. E&S Digital Theater.
Running Time: 35 minutes
Release Date: 2003

TALES OF THE MAYA SKIES
Tales of the Maya Skies takes you on an exciting journey back in time to the beautiful jungle city of Chichén Itzá and the world of the ancient Maya. Here we discover how the Maya developed a sophisticated understanding of astronomy, mathematics and science—knowledge that has influenced much of our present day learning. Chabot Space & Science Center.
Running Time: 33 minutes
Release Date: 2009
Inspired by astronauts who spoke of the life changing power of seeing the Earth from space, filmmaker and composer Kenji Williams created BELLA GAIA to simulate this transformation called the Overview Effect. Working closely with NASA’s scientific visualization studio, the award winning BELLA GAIA simulates space flight, taking the audience on a spectacular journey around planet Earth.

A Living Atlas journey of our planet, BELLA GAIA creates a direct experience and connection with the creative forces of Earth with fulldome NASA scientific visualizations, guided by the ecstatic music of Kenji Williams. BELLA GAIA uses the media-rich languages of today to present audiences compelling visualizations of scientific data, natural systems and humanity’s impact on nature in a way that taps audience’s emotional intelligence, while also celebrating our rich cultural heritage—whose destiny is inextricably linked with our planet Earth. Remedy Arts.

Running Time: 25 minutes
Release date: 2014
**MOONWALK**

*Moonwalk* weaves together literature and science with iconic songs and imagery into a grand audiovisual hyperlink, characterizing our placid heavenly neighbor as a living, scintillating force. A rare film combining art and science, Moonwalk reminds us of the Moon's ubiquity, compelling us to reconstruct our own personal history of the Moon. Sound design by Helga Pogatschar. Clea T. Waite.

**Running Time:** 22 minutes  
**Release Date:** 2010

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**CROSSING WORLDS**

*Crossing Worlds* immerses viewers in a transcendent spectrum of austere landscapes utilizing spherical photography from the American desert west, reminding us of how extraordinary our home planet is. Soundtrack by UK trio Marconi Union. xRez Studio.

**Running Time:** 6 minutes  
**Release Date:** 2010

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**LICHTMOND**

*LICHTMOND* is a poetic journey through magic sounds and landscapes of a visionary parallel universe, on a world called Earth 2, which is orbited by two suns. Untouched by mankind, Earth 2 is a world full of hovering trees, strange species of flying fish, bubble-like volcanos, surreal sculptures and fantastical landscapes. This amazing musical audiovisual trip features award winning music by LICHTMOND featuring Alan Parsons, I Muvrini and Boy George (as co-writer). Planetarium Hamburg and blu phase media.

**Running Time:** 51 minutes, 39 minutes  
**Release Date:** 2013

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**SPACEPARK 360/SPACEPARK 360 “INFINITY”**

Two unique 9-ride shows that take audiences on a wild immersive tour of the solar system while recreating the experience of amusement park thrill rides—roller coasters, pendulums, inverters and more. Dome3D.

**Running Time:** 38 minutes  
**Release Date:** 2010

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**COSMIC ADVENTURE**

This high speed adventure for family audiences takes you on a roller coaster ride from the Moon through our solar system, galaxy and beyond. You’ll be immersed in some of the most amazing sites in the universe. It’s a ride you will want to take again and again. Narrated by Nancy Cartwright of TV’s *The Simpsons*. E&S Digital Theater.

**Running Time:** 24 minutes  
**Release Date:** 2014

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**VISIT US AT WWW.SPITZINC.COM FOR DETAILED SHOW DESCRIPTIONS**
THE LONGEST NIGHT: A WINTER’S TALE

The winter solstice provides the backdrop for this one-of-a-kind show. This original fable explores the concept that winter is a time for Earth to rest, waiting for new growth in the spring. Morehead collaborated with Paperhand Puppet Intervention to develop the story and visuals, seamlessly weaving together live-action video of Paperhand’s world-class puppeteers with beautiful animation to create this innovative and imaginative program. UNC Morehead Planetarium and Science Center.

Running Time: 27 minutes
Release Date: 2012

FULLDOME NUTCRACKER SUITE

The Fulldome Nutcracker Suite is a visual music extravaganza of Pyotr Tchaikovsky’s most famous work, with stereo soundtrack performed by The Royal Philharmonic Orchestra and animation by Ken Scott. It can be licensed as a complete set (eight clips, plus titles & credits), as well as sets of three clips. Content includes: Dance of the Sugar Plum Fairy (1:57); Miniature Overture (3:22); March (2:50); Dance of the Mirlitons (2:45); Arabian Dance (3:30); The Trepak a.k.a. Russian Dance (1:12); Chinese Dance (1:08); Waltz of the Flowers (7:03). Digital Chaotics.

Running Time: 22 minutes
Release Date: 2012

MYSTERY OF THE CHRISTMAS STAR

Journey back 2000 years to Bethlehem as we search for a scientific explanation for the Star sighted by the wise men. We’ll investigate possible dates for this occurrence, and look at recorded sightings of significant astronomical events during this time frame. We’ll see which of these signs in the sky could have been remarkable enough to cause the wise men to travel across the desert from Babylon to Bethlehem. This modern retelling of the Christmas story is sure to charm and captivate audiences of all ages. E&S Digital Theater.

Running Time: 30 minutes
Release Date: 2006
ESCHER’S UNIVERSE

*Escher’s Universe* is based on the life and work of the multifaceted Maurits Cornelis Escher. Was he an artist, an astronomer, a mathematician, a traveler? This show will take us to the artist’s studio where his most iconic works are displayed. From this intimate setting, we will explore Escher’s unique universe and his fascination and genius for joining Science and Art: mathematics, astronomy, optics, crystallography and geometry converge in his creations to artistically explain very complex concepts addressed by Cosmology. Parque de las Ciencias de Granada and El Exilio.

**Running Time:** 24 minutes
**Release Date:** 2012

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FANTASTIC FRACTALS!

Experience the visual adventure of journeying into the infinitely complex world of fractals—endlessly repeating patterns made from simple algebraic equations. Based on the popular *Fantastic Fractals!* program hosted by Dr. Jonathan Wolfe, *Fantastic Fractals!* offers educators a new tool for teaching math and related sciences in the dome. Each fractal tells the story of the process that created it—whether the erosion of a canyon, the evolution of a galaxy, or the computation of an equation. The powerful lesson is how small changes to a system can lead to dramatic changes in the outcome: the butterfly effect. Available as presenter-led, interactive show or linear presentation; also available in packs of three clips. Fractal Foundation.

**Running Time:** Approximately 25 minutes  
**Release Date:** 2010
AFRICA: THE SERENGETI


Running Time: 40 minutes
Release Date: 2008

SEA MONSTERS: A PREHISTORIC ADVENTURE

Journey 80 million years back in time to an age when ferocious prehistoric creatures swarm, hunt, and fight for survival beneath the seas. Stunning, realistic imagery recreates the perilous underwater realm of two young, dolphin-sized marine reptiles, and their journey among the most awesome predators ever to prowl the oceans. National Geographic.

Running Time: 40 minutes
Release Date: 2007

NATIONAL PARKS ADVENTURE

National Parks Adventure takes audiences on the ultimate off-trail adventure into the nation’s awe-inspiring great outdoors and untamed wilderness—soaring over red rock canyons, hurtling up craggy mountain peaks and into other-worldly realms found within America’s most legendary outdoor playgrounds, including: Yellowstone, Glacier National Park, Yosemite, and Arches. MacGillivray Freeman Films in association with Brand USA. Narrated by Robert Redford. 2D/3D.

Running Time: 43 minutes
Release Date: 2016

MYSTERIES OF THE UNSEEN WORLD

Mysteries of the Unseen World transports audiences to places that they have never been, to see things that are beyond their normal vision, yet literally right in front of their eyes. High-speed and time-lapse photography, electron microscopy, and nanotechnology are just a few of the tools revealing a new universe of things, events, creatures, and processes we never even knew existed. National Geographic. 2D/3D.

Running Time: 40 minutes
Release Date: 2013

FLYING MONSTERS

Just as dinosaurs began their domination of Earth, pterosaurs ruled the prehistoric skies. Join naturalist and documentary filmmaker David Attenborough as he recounts the fascinating story of how we humans first discovered that these creatures were real and how they were able to leave the ground and soar. National Geographic.

Running Time: 39 minutes
Release Date: 2011
**JOURNEY TO SPACE**

*Journey to Space* showcases NASA’s next era—from audacious missions such as landing astronauts on Mars to capturing asteroids, while putting into context the magnificent contributions made by the Space Shuttle program—from deploying and repairing the Hubble Space telescope to assembly of the International Space Station—and the foundation laid by these two programs for the next giant leaps into space. Narrated by Patrick Stewart. 2D/3D.

**Running Time:** 42 minutes  
**Release Date:** 2015

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**HIDDEN UNIVERSE**

*Hidden Universe* takes audiences on a journey deep into space through the lenses of the world’s most powerful telescopes. Explore the earliest galaxies, watch stars being born in vivid clouds of gas and dust, tour the surface of Mars, and witness stunning views of the Sun. Experience fresh insight into the origins and evolution of the universe. December Cinema Productions, Swinburne University of Technology, European Southern Observatory (ESO). 2D/3D.

**Running Time:** 40 minutes  
**Release Date:** 2013

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**FLIGHT OF THE BUTTERFLIES**

*Flight of the Butterflies* is the story of the remarkable Monarch butterfly migration and Dr. Fred Urquhart, the determined scientist who spent 40 years trying to discover where the butterflies went when they flew south for winter. With his wife Norah, he founded the Insect Migration Association, enlisting thousands of volunteers across North America to tag hundreds of thousands of butterflies to track their migration route. SK Films and Sin Sentido Films. 2D/3D.

**Running Time:** 44 minutes  
**Release Date:** 2012

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**HUMPBACK WHALES**

*Humpback Whales* is an extraordinary journey into the mysterious world of one of nature’s most awe-inspiring marine mammals. Set in the spectacular waters of Alaska, Hawaii and the remote islands of Tonga, this ocean adventure offers an up-close look at how humpback whales communicate, sing, feed, play, take care of their young and migrate up to 10,000 miles round-trip every year. MacGillivray Freeman Films, narrated by Ewan McGregor. 2D/3D.

**Running Time:** 40 minutes  
**Release Date:** 2015

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**SPACE JUNK**

Fifty years after launching our dreams into space, we’re left with a troubling legacy: a growing ring of orbiting debris that threatens the safety of Earth’s orbits. *Space Junk* is a visually explosive journey of discovery that weighs the solutions aimed at restoring our planet’s orbits. Join expert Don Kessler as he guides us though the challengers in protecting them. Melarae Pictures.

**Running Time:** 40 minutes  
**Release Date:** 2013
Programs in the Show Catalogue are suitable for families, and can be scheduled as general, public-audience shows.

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**Life Science & Nature**

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**Earth Science**

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**History & Ancient Cultures**

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**Entertainment**

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**Seasonal**

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**Mathematics**

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**Giant-Screen Transfers**

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FULL DOME SHOW DISTRIBUTION

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Mike Bruno, Spitz
phone: 610.459.5200 ext. 173
email: mbruno@spitzinc.com

Michael Daut, E&S
phone: 801.588.1627
email: mdaut@es.com

700 Brandywine Drive, Chadds Ford, PA 19317 • phone 610.459.5200 • fax 610.459.3830
Birth of Planet Earth tells the twisted tale of our planet’s origins. Scientists now believe that our galaxy is filled with solar systems, including up to a billion planets roughly the size of our own. The film employs advanced, data-driven, cinematic-quality visualizations to explore some of the greatest questions in science today: How did Earth become a living planet in the wake of our solar system’s violent birth? What does its history tell us about our chances of finding other worlds that are truly Earth-like? Spitz Creative Media, NCSA’s Advanced Visualization Lab, Thomas Lucas Productions, Inc., in association with Tellus Science Museum. This project has been made possible with support from the Commonwealth of Pennsylvania and the Greater Philadelphia Film Office; funded in part by the National Science Foundation.

Running Time: 24 minutes
Release Date: 2019

Click here to watch work in process reel.
MARS ONE THOUSAND ONE
An international crew of astronauts is about to embark on the first interplanetary journey in history, the first manned mission to the surface of Mars. We will witness firsthand their brave attempts to put human footprints on Mars, return safely to Earth and learn whether mankind has a future among the stars. Mirage3D and Evans & Sutherland.

Running Time: 45 minutes
Release Date: 2018

EXPLORE
EXPLORÉ is an odyssey to the planet Mars, seen through the lens of human history and scientific development. Presenting a broad selection of science in a modern and accessible way, EXPLORÉ spotlights the work of Johannes Kepler and his three laws of planetary motion, showing how individuals can change the world, and how much we all benefit from their achievements. Creative Planet.

Running Time: 27 minutes
Release Date: 2017

EXPEDITION REEF
Learn about the secrets of the “rainforests of the sea” as you embark on an oceanic safari through the world’s most vibrant—and endangered—marine ecosystems. Narrated by Tony Award® winner Lea Salonga, Expedition Reef immerses you in a spectacular undersea adventure. Discover how corals grow, feed, reproduce, and support over 25% of all marine life on Earth—while facing unprecedented threats from climate change, habitat destruction, and overfishing. California Academy of Sciences.

Running Time: 26 minutes
Release Date: 2018

PASSPORT TO THE UNIVERSE
Now in stunning 8K resolution at 60 fps, Passport to the Universe has been updated with the latest scientific data and cutting-edge visualizations. The film features a timeless original script, music, and narration by Tom Hanks. Developed by the American Museum of Natural History, New York in collaboration with NASA. Major support for new version by California Academy of Sciences, San Francisco.

Running Time: 18 minutes
Release Date: 2017

STARLIGHT
Starlight is told through the eyes of Margaret, as she steps back in time to relive childhood fears of the dark that awoke her curiosity about the night sky. Join Margaret as she takes you on a journey to discover constellations and ancient cultures, the birth and death of a star and the inner workings of our Sun. Melbourne Planetarium@Scienceworks, Museum Victoria.

Running Time: 27 minutes
Release Date: 2014