

***Come along  
on a captivating  
scientific and  
historical exploration  
of the planet Mars!***

**Running time: 40:26  
Grade level: 4-12 and  
general public audiences**

**MarsQuest** is a chronicle tracing our centuries-long cultural and scientific fascination with the planet Mars. Set in a theatrical style "three-act" form with an epilogue, it weaves a satisfying narrative of what Mars means to humanity.

In the first section, **"Homage,"** we trace Mars through history — from an "incantation" of the various War God forms given by different cultures, to the early observations of Schiaparelli and Lowell, and the infamous "canals" which led to science-fiction stories about Martians. We hear excerpts from H. G. Wells's "War Of The Worlds" and Edgar Rice Burroughs's "Barsoom" novels.



**"Mars In Focus"** details the Mars of our time — as seen in the night sky, through binoculars and telescopes, and from our Mars explorations. Mission findings from more than a quarter century of spacecraft missions feature reports on Mars weather, climate, and areology. We compare the climate and terrain of Earth and Mars, and present the current thinking about the areologic history of the planet, and a rationale for future exploration.



**"Mars in the Future"** examines where on Earth we can prepare to live on Mars, what will be needed to get crewed missions to the Red Planet, and what the first landing may be like.

The show ends with **"Rhapsody on a Red Planet,"** a poetically-styled "ode to Mars," this time from a future perspective; an eloquent soliloquy tracing the efforts that led to humanity's first footsteps onto the desolate and dusty Martian surface.

Along with its sister planetary shows **Magellan: Report from Venus** and **The Voyager Encounters**, **MarsQuest** is an excellent way to present the wonders of the solar system to audiences.

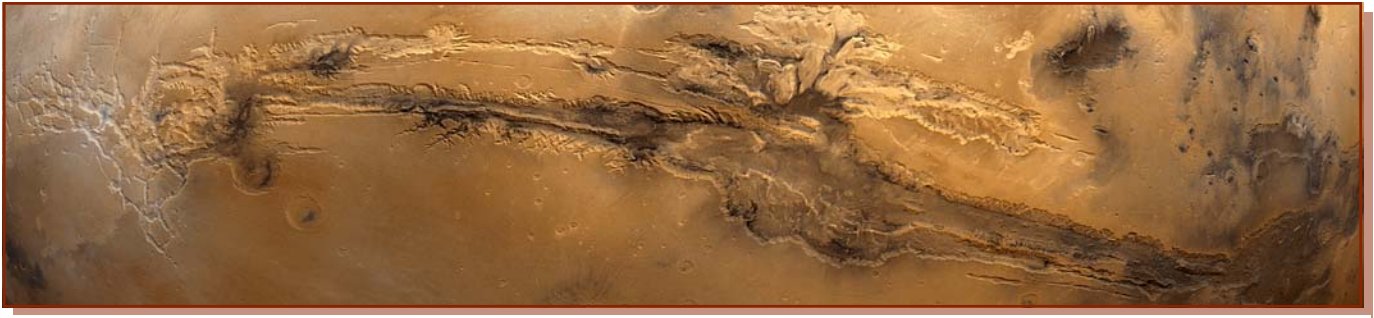


**MarsQuest** was produced in collaboration with the Space Science Institute, with production funding from the National Science Foundation.

**Narrated by Patrick Stewart  
Written by Carolyn Collins Petersen  
Produced by Mark C. Petersen  
Original artwork by Michael W. Carroll and Tim W. Kuzniar**



## Science Education Content



The focus of *MarsQuest* is to present Mars via a set of multidisciplinary themes. These ideas are woven throughout the program and help relate the information presented in the show to the lives of students, families, and the general public.

Show content is relevant in the following subject areas:

### Physical Sciences:

- Positions and motions of Earth and Mars
- Mars and Earth orbits, relative positions over time
- Orbital effects on climate, seasons

### Earth and Space Sciences:

- Objects in the sky: Earth, Mars, Mars satellites
- Comparative planetology of Earth and Mars
- Mars environment, climate change, evolution, surface

### Life Sciences:

- The search for life on Mars and likely environments where it might exist

### Science and Technology:

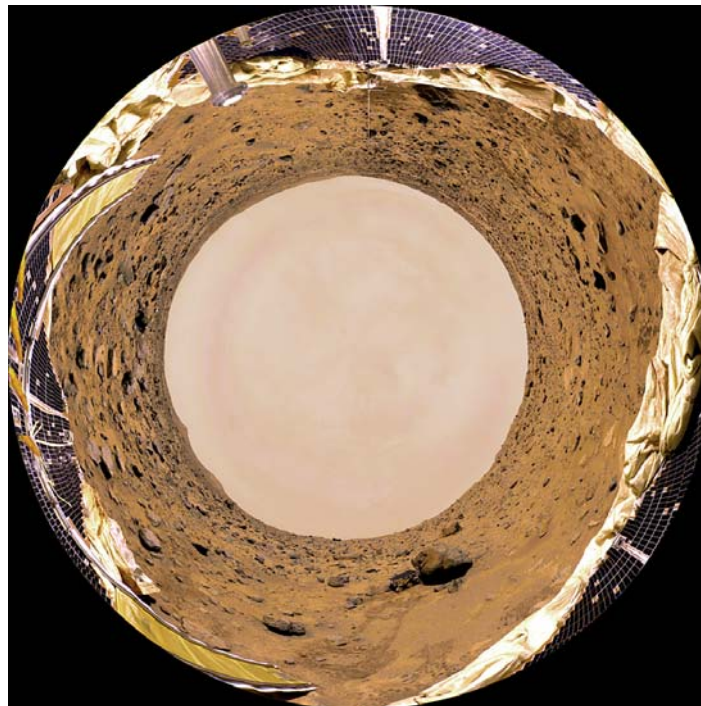
- Mars through binoculars, telescopes
- Exploration of Mars by spacecraft missions
- Technological challenges of future explorations
- Science drivers for Mars exploration
- Remote sensing and spacecraft
- Technological planning for future Mars studies

### History of Science/Science as a Human Endeavor:

- The ancient perception of Mars as a war god
- The scientific exploration of the planet
- Mars in science fiction and fantasy
- Future human exploration of the planet

This show adheres to principles put forth in the National Academy of Sciences' Education Standards published in 1996. For more details, visit the NAS Standards Web site at: <http://books.nap.edu/html/nses/html/index.html>.

**Sojourner studies  
the boulder Yogi in  
this Mars Pathfinder  
scene...**

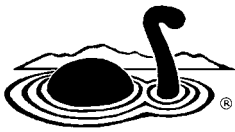


**... just one of the  
~72,000 dome  
master frames in  
this show.**



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## FULLDOME SHOW PRICING

We make Loch Ness Productions shows available in the sizes required by the various projector systems they will run on. For pricing purposes, there are four general size categories, **SMALL, MEDIUM, LARGE,** and **X-LARGE.** Contact us for recommendations to help determine which size is right for you.

Each show includes a performance license, which basically provides you with the permission you need to present the show to the public. The license period is 50 years — for all practical purposes, unlimited time. You can read the details on our Web site, so you'll know in advance what the license terms are.

Show Title (Product Code ###)	Product Code	MOVIE SIZE	For systems projecting circles that are:	Price
<b>HUBBLE Vision 2</b> (HV2) <b>Larry Cat In Space</b> (LCS) <b>MAGELLAN: Report From Venus</b> (MRV)	###-FS	SMALL	smaller than 1300 pixels	<b>\$1595</b>
	###-FM	MEDIUM	1300 to 2000 pixels (or prewarped)	<b>\$2195</b>
	###-FL	LARGE	larger than 2000 pixels	<b>\$3095</b>
	###-FX	X-LARGE	sliced* for multiple projectors	<b>\$4095</b>
<b>Season of Light</b> (SOL)	###-FS	SMALL	smaller than 1300 pixels	<b>\$1895</b>
	###-FM	MEDIUM	1300 to 2000 pixels (or prewarped)	<b>\$2495</b>
	###-FL	LARGE	larger than 2000 pixels	<b>\$3395</b>
	###-FX	X-LARGE	sliced* for multiple projectors	<b>\$4395</b>
<b>Light Years From Andromeda</b> (LYA) <b>MarsQuest</b> (MQ) <b>Oceans In Space</b> (OIS) <b>Seasonal STARGAZING</b> (SSG) <b>Sky Quest</b> (SQ) <b>The Cowboy Astronomer</b> (TCA) <b>The Voyager Encounters</b> (TVE)	###-FS	SMALL	smaller than 1300 pixels	<b>\$1995</b>
	###-FM	MEDIUM	1300 to 2000 pixels (or prewarped)	<b>\$2595</b>
	###-FL	LARGE	larger than 2000 pixels	<b>\$3495</b>
	###-FX	X-LARGE	sliced* for multiple projectors	<b>\$4495</b>

**\*About slicing:** Multi-projector edge-blended systems require pre-slicing of a show's images into the individual channels needed for each projector. We can slice for most standard configurations. But some theaters may have non-standard configurations, or require the use of proprietary software to slice. In those cases, we'll need to contract with your system provider for some custom encoding. Contact us about costs.

### Multiple Copies of Movies...

Ordinarily, the shows we distribute are licensed for installation on a single playback system and/or site. But maybe you need multiple copies of your movies because your institution operates two or more fulldome systems. Or let's say you already have large and sliced video movie files, and then get an additional portable fulldome system and need smaller movies to run on it. For these situations, you'll need to contact us about extending the license from the first show to cover additional installations. Then, buy the appropriate number and size of Additional Movie Files you need, at the discounted prices we offer in the table to the right.

### Projector/Movie Upgrades...

Let's say you already have our fulldome movies at a small size, but then choose to upgrade to a higher resolution projector system and need to get new, larger movies. You retire your lower-resolution system and no longer run the movies installed on it. For this situation, you'll need to contact us about transferring the license you received with your first show to cover your new installation. Then, simply buy the appropriate size video you need, at the discounted prices we offer in the Video Movie Upgrades table.

ADDITIONAL MOVIE FILES			
Product Code	MOVIE SIZE	For systems projecting circles:	Price
VMA-S	SMALL	smaller than 1300 pixels	<b>\$1000</b>
VMA-M	MEDIUM	1300 to 2000 pixels (or prewarped)	<b>\$1600</b>
VMA-L	LARGE	larger than 2000 pixels	<b>\$2500</b>
VMA-X	X-LARGE	sliced for multiple projectors	<b>\$3500</b>

VIDEO MOVIE UPGRADES			
Product Code	MOVIE SIZE	For systems projecting circles:	Price
VMU-S	SMALL	smaller than 1300 pixels	<b>\$500</b>
VMU-M	MEDIUM	1300 to 2000 pixels (or prewarped)	<b>\$800</b>
VMU-L	LARGE	larger than 2000 pixels	<b>\$1250</b>
VMU-X	X-LARGE	sliced for multiple projectors	<b>\$1750</b>

### The details...

Our fulldome shows are made in fisheye circle form, and ship as ready-to-play *movies*, with audio and video files encoded/sliced/prewarped in formats and resolutions compatible with today's projector systems. **We do not ship dome masters.** We record the files onto data DVDs, USB Flash or external drives.

### What we send...

In addition to the show, we also provide the show's fulldome "trailer"; still images that can be used for advertising and promotion; the license agreement, and a reference book in PDF form, containing the show script, production notes, resources, acknowledgements, and additional information.

### Installation...

While it may be possible to play videos directly from our distribution media, we expect you'll copy the files onto your fulldome system for optimum performance. We provide pre-written play scripts for some systems; others will simply edit button scripts or enter the necessary system commands to load and play the movies.