## "The Search for Life on Mars" – The history of our fascination with and exploration of Mars (From ancient times to 2000)

Name	
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1. Mars (or Ares as the Greeks call it) always seemed _	from the other objects in the sky, earning the name
"" from the ancient Egyp	tians. It's appearance and very irregular across the sky
brought this about.	
2. After Copernicus and straightened o	ut the place of planets in our system around 1600, further observations
then become limited for the next 300 years by the capal	bilities of the ever-improving that began with
's 1-inch variety which only saw Mars a	s the size of a held 8 feet away.
3. In the mid 1600s, Christian Huygens uses precise obser	vations to determine that the Martian is very close in
length to Earth's and it also has are discovered.	like Earth. It is not until the late 1800s that its two
4. At this time, Giovanni Schiaparelli then creates a stir a	mong scientists by calling the markings he sees on
Mars "", unintentionally in	aplying to English-speaking people that a boat-riding
of beings might exist on I	Mars. In the midst of Schiaparelli's controversy, a French astronomer
details a periodic change in the planet's appearance that changes in vegetation on Mars.	he calls "the of", thereby suggesting
5. The above debates remained confined to the scientific	community until Percival Lowell began to publicly insist that the 183
total he catalogued must be Martian-ma	de even though many were really just fuzzy, not lines. His
published maps and theories get the or	h his side since he was "such a good".
6. Lowell's ideas lead to the creation of the	genre. H.G. Wells' 1898 novel "
" (recently a remade movie with Ton	n Cruise) depicts the Martians as, an idea that has
persisted at times up through today with movies like "Inde	ependence Day". In 1899 and for many years that follow, many people
believe that there is not only life on Mars but	life.
7. Attempts made soon after in 1901 to use	wave communications to contact that life resulted from human
tendencies to either fear the unknown or "want to have a	"with new friends. Despite attempts by David Todd
in 1924 to establish contact from Mars with "radio	" cooperation from the US Dept. of Defense, results are
inconclusive. This setback along with discoveries in the	e following years that the "darkening" is actually caused by seasonal
planet-wide storms and that typical nightt	ime temperatures in Mars' CO <sub>2</sub> atmosphere are about
degrees below zero, casting major doubts on the potential f	or life there.
8. With only sci-fi left to keep the Martian idea alive, t	he news format of a broadcast of H.G. Wells story
creates a panic nationwide and helps the belief of life on	Mars to linger. It was also no coincidence that the connection of the
color red to Mars and also fueled	existing fears during the War.
9. While fear was nurtured in some, the curiosity and pass	sion it created for others in all things space-related led to career choices
by the eventual and	of NASA that would design and create
4 and the other probes we began to ser	
10. The 21 pictures it sent back though were a major	as the planet appeared to be nothing more than a
second from its surface features. Ove	rnight, the idea of Martians becomes passé and all sci-fi from then on
deals with life and exploration of o	our solar system

11. While man walks on the moon for the first time, other Mariner missions are barely noticed but in 1971, the 7,	000 pictures
taken by Mariner 9 reveal the largest in the solar system with a width equal to that of	the state of
More importantly, although they weren't canals, numerous empty	suggest that
must have flowed on its surface long ago. Very suddenly, the search for Martian life was back	in business.
12. In 1976, the tests run by the landers at first detect signs of	ism by
microorganisms in its soil but then are later seen as standard reactions. In not finding life, the ex-	eploration of
Mars is put on hold for the next years.	
13. Public interest is peaked again though when a specific photo of the surface eventually called "The"	led some to
believe it was an attempt at communication and along with nearby shapes is perhaps part of an	n engineered
complex. NASA's downplaying of this idea was seen by some as a possible government	
14. Then in 1984, both sides are brought together when a of Martian origin discovered in	n Antarctica
reveals what some think are micro This leads to ideas that not only did Mars once have life	but extreme
hypotheses that those rocks served as of life here. Eventually, it is shown that regular chemical rea	ctions could
create the markings found in the rock.	
15. Nevertheless, interest in Mars grows again and the rover in 1997 is watched by a larger	ΓV audience
than the one that viewed the moon landings. The Global Surveyor also gets a chance to photograph "The	" again,
showing it to be nothing but a rock formation (although some still consider it a construction today).	
16. Conspiracy theorists though were given ammunition when the next probes sent failed to reach the	
of Mars, fostering an idea that someone was there them. In all, two of all miss	ions to Mars
have failed.	
17. The lingering question now is (assuming that liquid water can be found somewhere) how of	lo we design
and send probes that can into the ground and then perhaps bring samples back to	for analysis?
The even bigger question is are we up to the great project required to send people for a leng	thy stay?
18. Former teacher/aerospace engineer Robert Zubrin says we can, by sending specific spacecraft. One will la	and ahead of
time and sit on the surface with the return and the ability to use the in the atmosphe	re and H <sub>2</sub> to
create its own The other will bring people later. (More recent ideas say we would send a second	ahead of the
people that would place itself in orbit with the spacecraft the astronauts would use to on the pla	net.)
19. The very long term idea that many have is to "" Mars, making it a second Earth f	or our ever-
growing population. Just find a way to add gases in large quantities to its atmosphere to wa	rm it up and
make it conducive to life which could then make for animals like us. Zub	rin sees this
effort as nothing more than humanity's and what has happened naturally with every other une	xplored and
barren place on Earth throughout history.	
20. In the meantime, we continue with probes that search for water and life today even as y	ou read this
question. As it stands now with current NASA plans, a trip to Mars with people won't happen much sooner than the	s
after we MAYBE return to the moon to practice interplanetary travel and study in approximately thes.	

The rest of our Mars exploration discussion will resume with the important discoveries of the Spirit and Opportunity rovers that landed on the red planet in 2004.