

2028

A DATE WITH DESTINY

REMARSHALL'S MARS MISSION

Myths or facts?

WE NEED TO KNOW!!!

TO TAKE OUR NEXT STEP, WE NEED TO CHECK OUT SOME IDEAS THAT HAVE BEEN FLOATING AROUND. IF THEY ARE TRUE, THEY COULD CAUSE PROBLEMS FOR OUR SPACE COLONISTS. IF THEY ARE NOT TRUE, WE CAN CROSS THEM OFF THE LIST OF CONCERNS.

I  
THINK  
THEY'RE  
TRUE! I'LL  
PANIC  
NOW!!



THEY  
ARE JUST  
RUMORS. I'M  
NOT  
WORRIED!



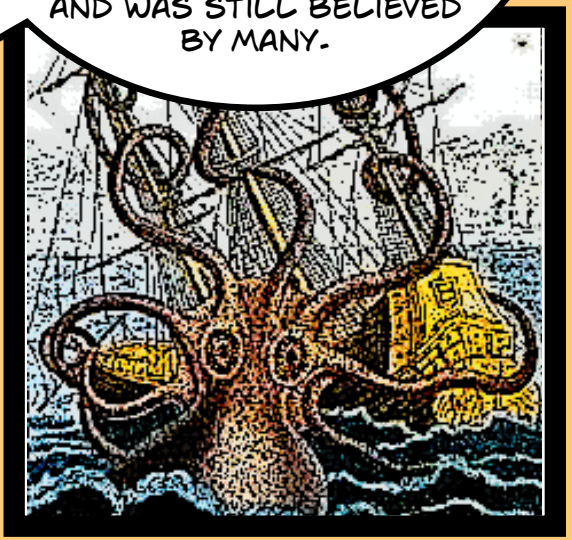


DURING EARLY EUROPEAN COLONIZATION, THERE WERE MANY REASONS COLONISTS FEARED FOR THEIR LIVES.



IT'S TOO SCARY!! I CAN'T LOOK!

EARLY COLONISTS TRAVELING TO THE AMERICAS FACED MANY MYTHS THAT STRUCK FEAR IN THEIR HEARTS! FIRST, THE IDEA THAT SEA MONSTERS WOULD SWALLOW THE BOAT WHOLE, OR SINK IT AND EAT ALL ONBOARD HAD BEEN AROUND FOR A LONG TIME AND WAS STILL BELIEVED BY MANY.



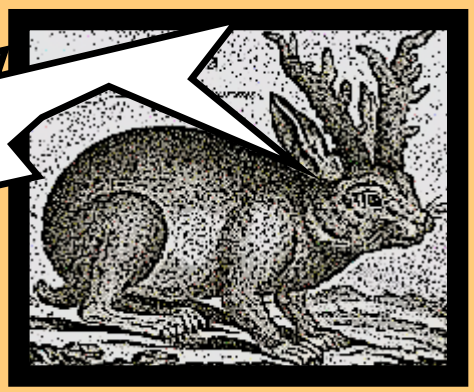
THERE WERE TALES OF CANABALISTIC NATIVES WAITING TO EAT THE NEW COLONISTS ALIVE!



AND ALL TYPES OF SCARY CREATURES WERE LYING IN WAIT TO ATTACK THE SETTLERS!

NOM, NOM!  
FRESH COLONIST!  
PASS THE KETCHUP!

I AM THE DREADED JACKELOPE! FEAR ME!







THESE TALES, AS WE NOW KNOW, WERE ALL NONSENSE.....WELL, EXCEPT FOR THE JACKELOPES.....JUST KIDDING.

SPACE TRAVEL HAS ITS OWN SET OF CONCERNS. SOME MAY BE REAL, OTHERS NOT SO REAL. YOUR JOB IS TO SEPERATE MYTH FROM REALITY.

SOME PEOPLE BELIEVE THAT THE VAN ALLEN RADIATION BELT WILL CAUSE SERIOUS PROBLEMS, EVEN DEATH. WHAT IS THE VAN ALLEN BELT? COULD THIS BE A POTENTIAL CONCERN FOR SPACE TRAVEL? WHAT ABOUT JUST RADIATION IN SPACE? IF IT COULD CAUSE A PROBLEM, WHAT CAN BE DONE?



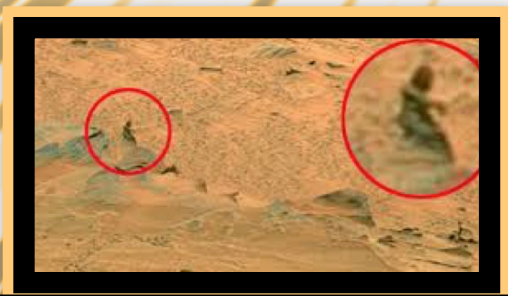
THERE ARE THOSE THAT BELIEVE SOLAR WINDS WOULD DESTROY SHIPS AND OTHERS THAT BELIEVE WE COULD USE THEM TO MOVE SHIPS THROUGH SPACE. WHAT ARE SOLAR WINDS? WOULD OR COULD THEY HAVE AN IMPACT ON SPACE TRAVEL OR EXPLORERS?

ANOTHER FEAR IS STARVATION. MANY EARLY AMERICAN COLONISTS AND EARLY EXPLORERS STARVED TO DEATH HERE, ON EARTH. HOW COULD WE PREVENT THAT ON MARS? HOW WILL WE FEED THE COLONISTS AND GET THEM FRESH WATER?

SOME PEOPLE FEAR THAT SOLAR PANELS WILL BE INEFFECTIVE ON MARS. WILL SOLAR PANELS ON MARS BE AS EFFECTIVE AS THEY ARE ON EARTH? SUPPORT YOUR ANSWER.

THINKING BACK TO THE NATIVE AMERICANS, COULD MARS COLONISTS FACE UNKNOWN DISEASES? WHAT MEASURES COULD BE TAKEN TO PROTECT COLONISTS FROM THIS THREAT? SUPPORT YOUR ANSWER.

THERE ARE PEOPLE WHO SAY THE EXPLORATORY ROBOTS WE HAVE SENT TO MARS HAVE SENT BACK PICTURES OF LIVING THINGS OR THINGS THAT DEMONSTRATE LIFE ONCE EXISTED ON MARS. (RESEARCH SOME OF THESE IMAGES.) WHAT DO YOU THINK ABOUT THE POSSIBILITY OF LIFE ON MARS THAT COULD ATTACK EXPLORERS?



THIS IS A PICTURE TAKEN BY THE MARS EXPLORER, CURIOSITY. THE IMAGE ON THE LEFT IS MAGNIFIED ON THE RIGHT. SOME SAY IT IS A LIVING ORGANISM.

ANOTHER CONCERN IS THAT THE COLONISTS WILL RUN OUT OF OXYGEN, EXPLODE DUE TO LOW ATMOSPHERIC PRESSURE, OR FREEZE TO DEATH ON MARS. ARE THESE CONCERNS VALID? IF SO, HOW CAN WE SOLVE THESE PROBLEMS?

**YOUR RESEARCH AND THOUGHTS:** SOME PEOPLE BELIEVE THAT THE VAN ALLEN RADIATION BELT WILL CAUSE SERIOUS PROBLEMS, EVEN DEATH. WHAT IS THE VAN ALLEN BELT? COULD THIS BE A POTENTIAL CONCERN FOR SPACE TRAVEL? IF IT COULD CAUSE A PROBLEM, WHAT CAN BE DONE? WHAT ABOUT RADIATION EXPOSURE IN GENERAL? WILL THE COLONISTS BE SAFE ON THEIR TRIP? WHAT ABOUT RADIATION ON MARS? RESEARCH THE PLAUSIBILITY OF THESE CONCERNS AND, IF THEY ARE REALISTIC, WHAT STEPS CAN BE TAKEN TO PROTECT THE COLONISTS FROM RADIATION?

**YOUR RESEARCH AND THOUGHTS:** WHAT ARE SOLAR WINDS? WOULD OR COULD THEY HAVE AN IMPACT ON SPACE TRAVEL OR EXPLORERS? IF THEY COULD, IS THERE A WAY TO PROTECT THE TRAVELERS?

**YOUR RESEARCH AND THOUGHTS: SOLAR PANELS WILL BE INEFFECTIVE ON MARS. WILL SOLAR PANELS ON MARS BE AS EFFECTIVE AS THEY ARE ON EARTH? ARE SOLAR PANELS A VIABLE SOURCE OF POWER ON MARS? SUPPORT YOUR ANSWER.**



**YOUR RESEARCH AND THOUGHTS:** THERE ARE PEOPLE WHO SAY THE EXPLORATORY ROBOTS WE HAVE SENT TO MARS HAVE SENT BACK PICTURES OF LIVING THINGS OR THINGS THAT DEMONSTRATE LIFE ONCE EXHAUSTED ON MARS. (RESEARCH SOME OF THESE IMAGES.) WHAT DO YOU THINK ABOUT THE POSSIBILITY OF LIFE ON MARS THAT COULD ATTACK EXPLORERS? (KEEP IN MIND, MANY DEATHS IN EARLY AMERICAN COLONIZATION WERE CAUSED BY VIRUSES AND BACTERIA.) FIND AT LEAST THREE CREDIBLE SOURCES THAT ADDRESS THESE ISSUES. IF THESE CONCERNS, (SOME OR ALL OF THEM) ARE VALID, CHOOSE A SOLUTION AND DEFEND YOUR CHOICE.

**YOUR RESEARCH AND THOUGHTS: IS PROVIDING FOOD AND FRESH WATER A PROBLEM? HOW WILL WE PROVIDE THESE CRITICAL ITEMS? FIND AT LEAST TWO PLANS AND CHOOSE THE ONE YOU FEEL IS BEST AND DEFEND YOUR CHOICE.**



**YOUR RESEARCH AND THOUGHTS:** IS PROVIDING A LIVABLE TEMPERATURE AND ATMOSPHERIC PRESSURE IN THE TRANSPORT SHIP AND IN THE BUILDINGS IN WHICH THE COLONISTS WILL LIVE AND WORK A PROBLEM? HOW WILL WE PROVIDE THESE CRITICAL ITEMS? FIND AT LEAST TWO PLANS AND CHOOSE THE ONE YOU FEEL IS BEST AND DEFEND YOUR CHOICE.