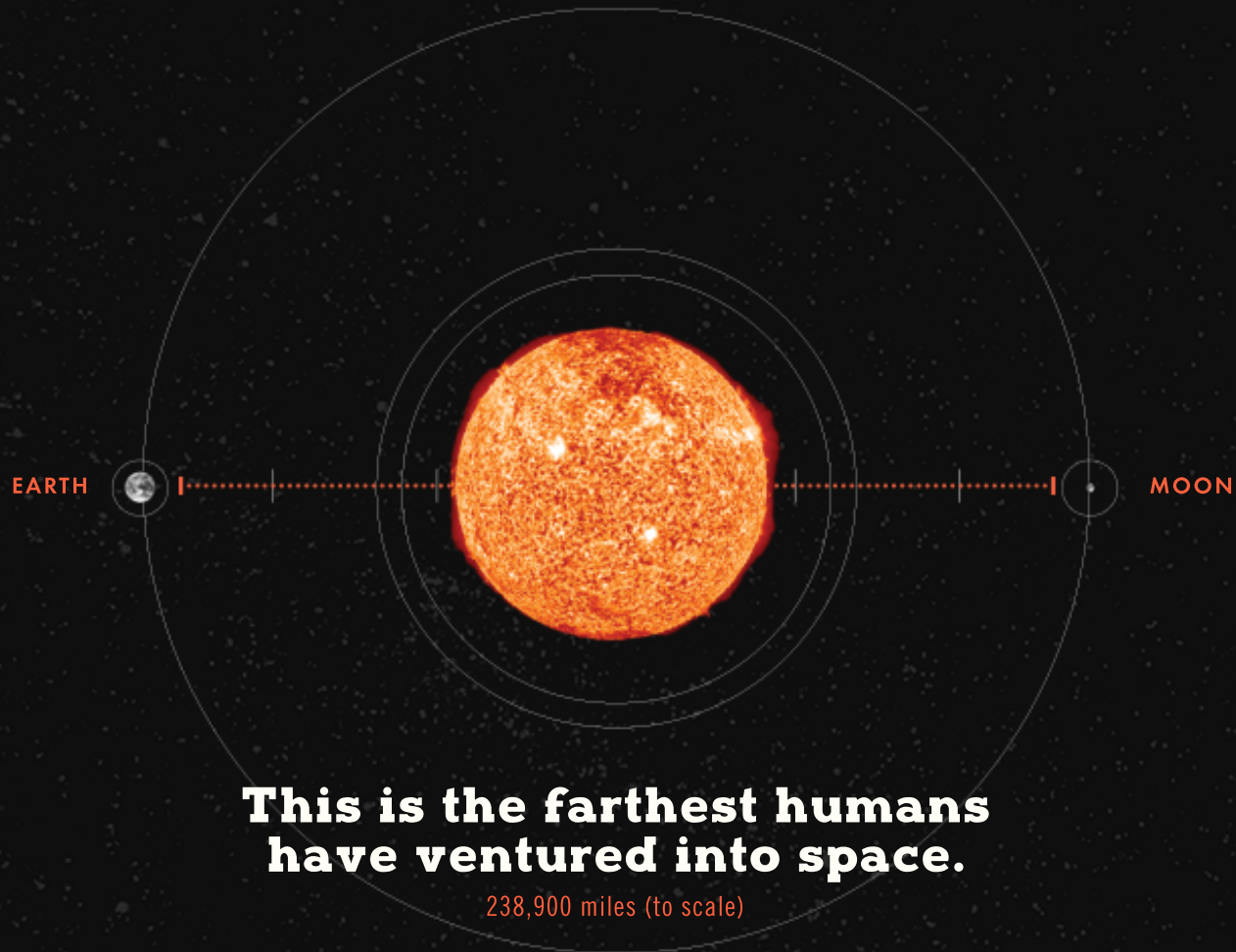


# SPACE APATHY





**This is the farthest humans  
have ventured into space.**

238,900 miles (to scale)





## After the Moon landing,

the people of the Earth imagined what the next great leap was going to be. Our sights were set on Mars. Venus, too, was a possibility. But, overtime, we slowly shifted our focus away from manned missions into space.

Since 1972 no human has ventured beyond the Moon. Only twelve people, to this day, get to say that they have.

# Space has become a risk-averse industry.

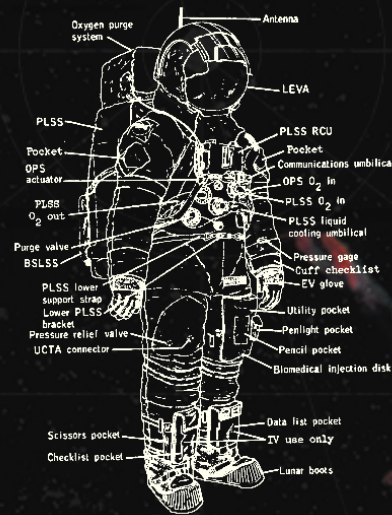


Figure 2-1.- Lunar surface configuration of the extravehicular mobility unit.

But let us remember that in spite of the risks associated with the Apollo programs, and even the programs before that, we did what had to be done. When the first humans left the Earth for space, risk was overcome by accepting it.

Circumnavigating our planet. That too was risky. So was settling "The New World," which is anything but new today. Too much risk awareness makes us apathetic, makes us afraid, keeps us here, tethered. The astronauts and cosmonauts knew the risks involved because they knew that they were the first of their kind to take the plunge in spite of the odds.





## ASTRONAUT FATALITIES DURING SPACEFLIGHT

### **Vladimir Komarov**

24 April, 1967

Soyuz 1 - Parachute Failure

### **Georgi Dobrovolski**

30 June, 1971

Soyuz 11 - Decompression

### **Viktor Patsayev**

30 June, 1971

Soyuz 11 - Decompression

### **Greg Jarvis**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **Christa McAuliffe**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **Ronald McNair**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **Judith Resnik**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **Michael J. Smith**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **Dick Scobee**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **William McCool**

1 February, 2003

Columbia - Vehicle disintegration during launch

### **Michael P. Anderson**

1 February, 2003

Columbia - Vehicle disintegration during launch

### **David M. Brown**

1 February, 2003

Columbia - Vehicle disintegration during launch

### **Ilan Ramon**

1 February, 2003

Columbia - Vehicle disintegration during launch

### **Michael J. Adams**

24 April, 1967

X-15 Flight 3-65-97 - Control Failure.

### **Valentin Bondarenko**

3 March, 1961

Fire in altitude chamber

**"...The conquest of space  
is worth the risk of life."**

Gus Grissom

### **Vladislav Volkov**

30 June, 1971

Soyuz 11 - Decompression

### **Ellison Onizuka**

28 January, 1986

Challenger - Vehicle disintegration during launch

### **Rick D. Husband**

1 February, 2003

Columbia - Vehicle disintegration during launch

### **Laurel B. Clark**

1 February, 2003

Columbia - Vehicle disintegration during launch

### **Yuri Gagarin**

27 March 1968

Soyuz 3 - Training jet crash

### **Theodore Freeman**

31 October, 1964

Training jet crash

### **Charles Bassett**

28 February, 1966

Gemini 9 - Training jet crash

### **Edward H. White**

27 January, 1967

Apollo 1 - Fire during spacecraft test

### **Clifton C. Williams**

5 October, 1967

Training jet crash

### **Elliot See**

28 February, 1966

Gemini 9 - Training jet crash

### **Virgil iGus! Grissom**

27 January, 1967

Apollo 1 - Fire during spacecraft test

### **Roger Chaffee**

27 January, 1967

Apollo 1 - Fire during spacecraft test

### **Robert Lawrence**

8 December, 1967

Training jet crash

### **Sergei Vozovikov**

11 July, 1993

Drowned during water recovery training



**But above  
this, they  
saw what  
none of us  
saw.**

We can't experience what they experienced. All we have is pictures to look at, images showing us how big the universe is. We don't have a sense of its distance because a picture looks two-dimensional. We cannot extend our arms outward and realize that we're just a fraction of a thing of another greater thing.

There is something great to be had in the great beyond. And so few of us know, truly know, what's out there that's so great.