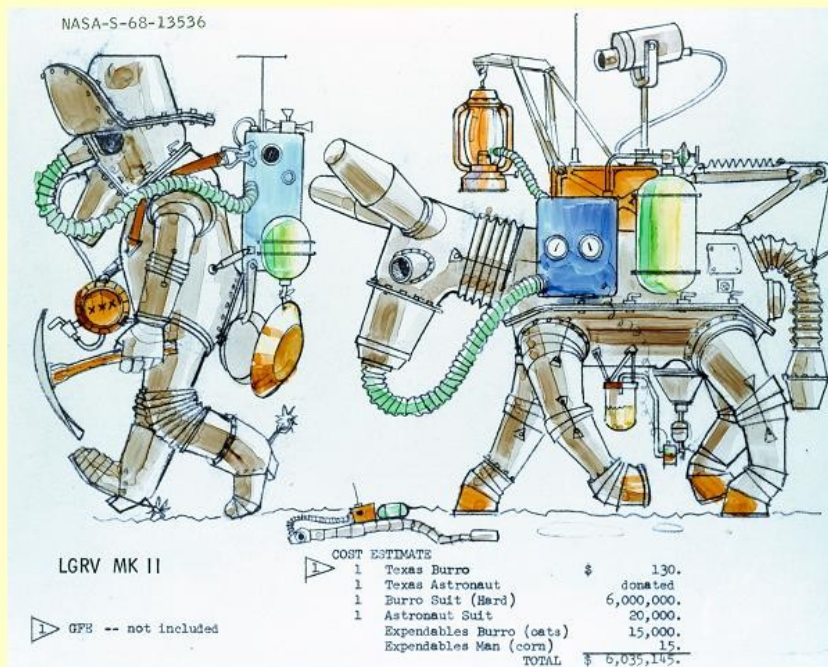




# SPACE POWER

“Knowledge  
is power,  
in space  
as on Earth”

# What we take with us into space....



## Checklist:

- Air
- Water
- Food
- Shelter
- Sensors
- Weapons

• *Experience*

• *Thought Patterns*

• *Metaphors*

# “Space is ‘High Ground’?”

## Are there more accurate metaphors?

Is an outpost in space really that LIKE a castle on ‘High Ground’ back on Earth....

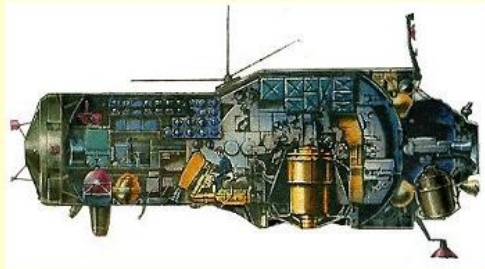


Or does its obvious position & potential vulnerability really deserve a different earthside analogy?

# An armed space station in 1974



Nudelman air-to-air cannon (top) had been secretly installed on Soviet Salyut-3 manned space station (bottom left) to protect spy camera film (bottom right).



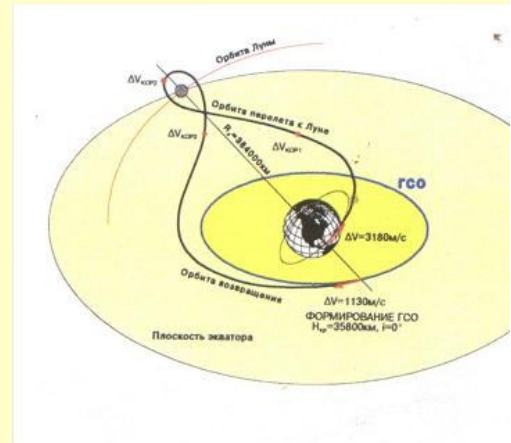
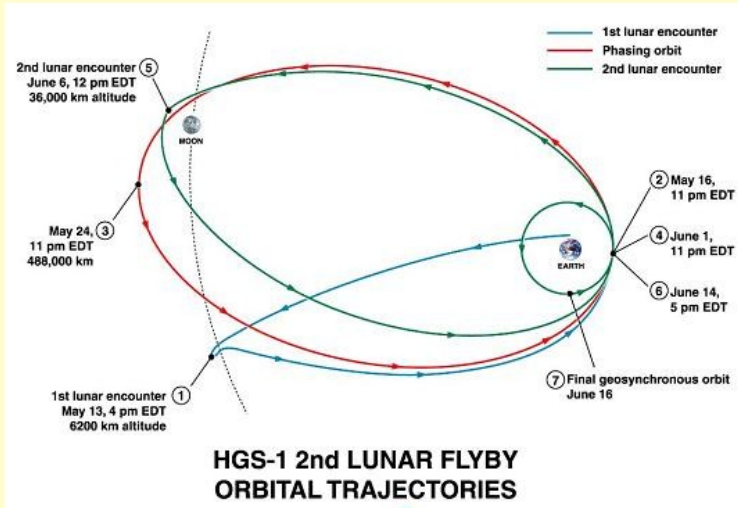
# The Russian gun on the ISS



Part of the Soyuz survival kit -- but owned by Russia.



# Finding the hidden path.... (from Thermopoli to Blitzkrieg, to Desert Storm -- hit 'em from behind)



.... and imagine where ELSE that kind of path can lead

## Unpredictability and ‘Space Power’

- “I suspect that the universe is not only queerer than we imagine, it is queerer than we CAN imagine” – JBS Haldane, 1935
- SPT: “The only recipe for Haldane’s warning is to stretch our imaginations now and every day of our lives” (p. 131)
- SPT: “We need the ‘fringe’, those at or beyond the boundaries of accepted thinking. Space power will challenge the assumptions of the culture and its leaders. Bright minds are a prerequisite -- including those considered eccentric, even crackpot. **Space power cannot advance merely from classic cookbook applications of current engineering knowledge.**” (p. 135)