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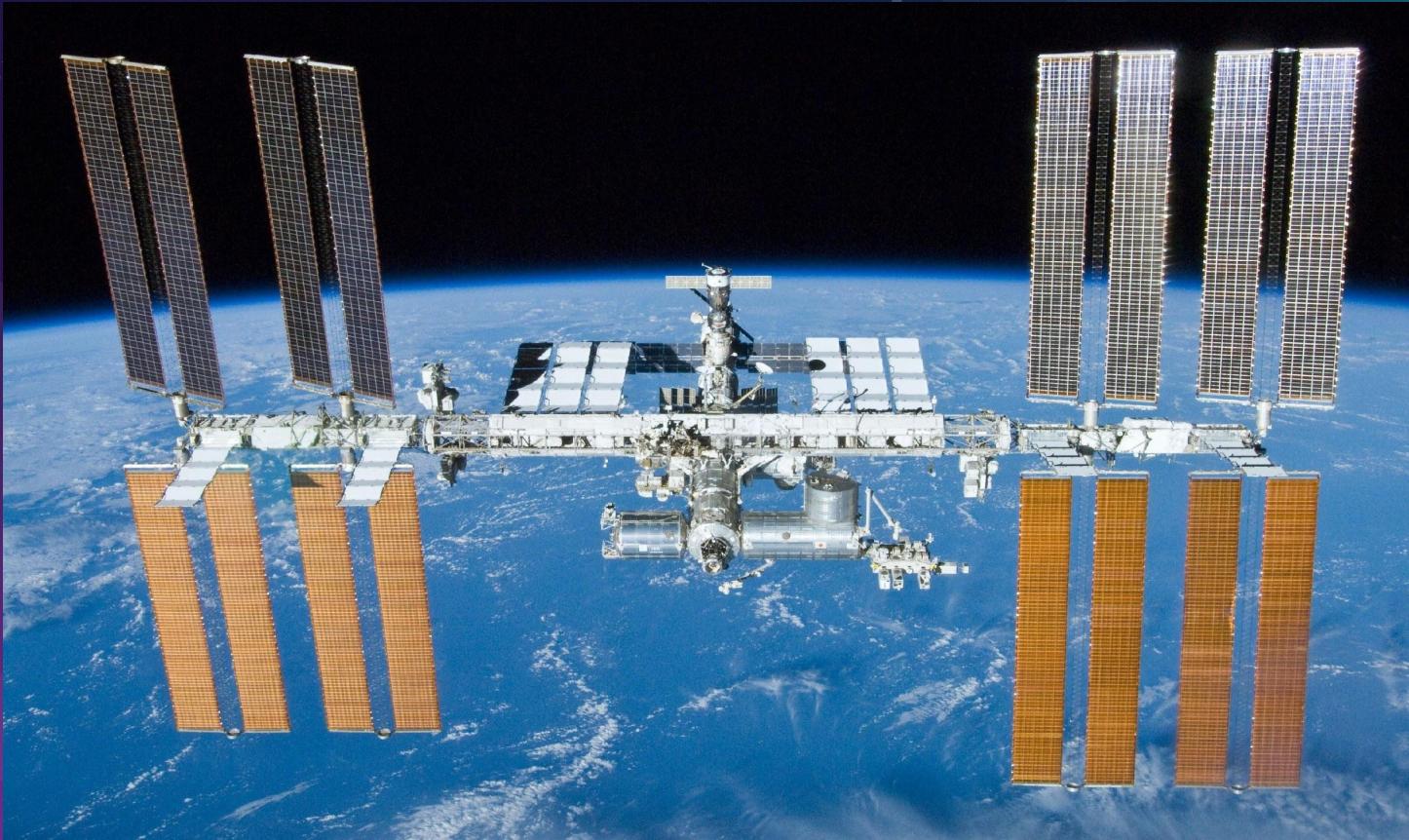
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INTERNATIONAL SPACE STATION

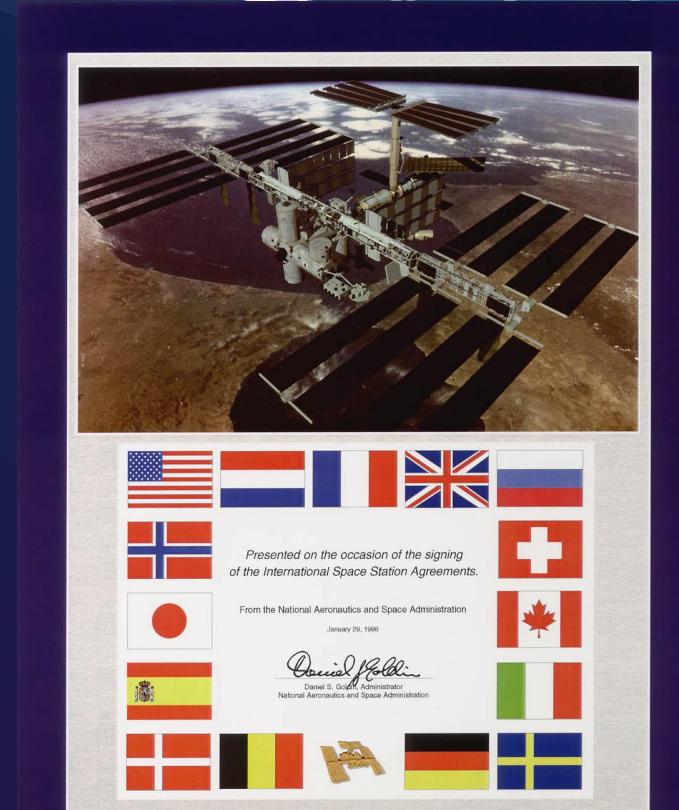


ISS



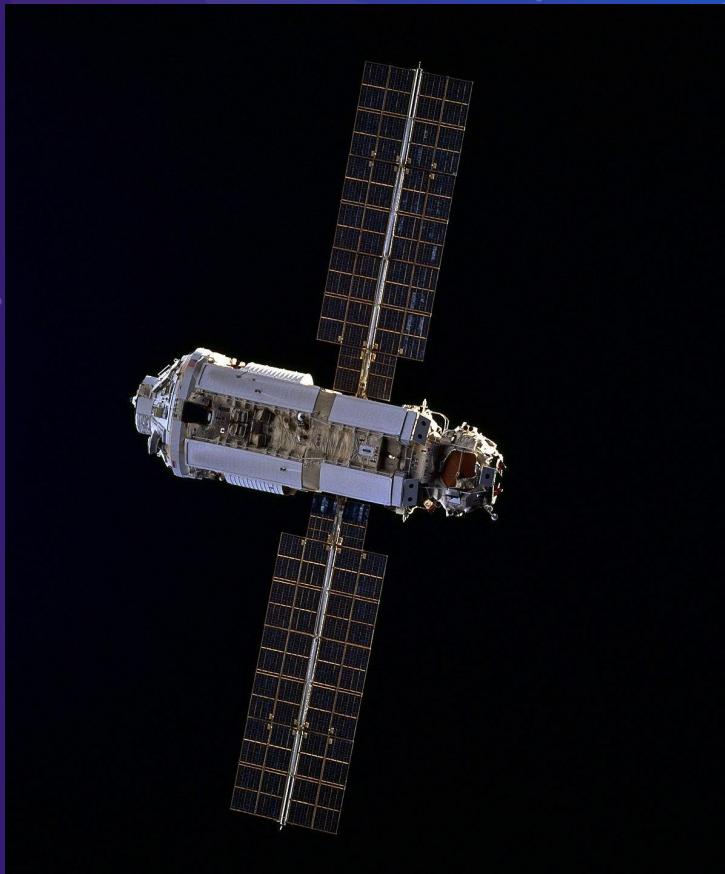
History of ISS

1. Initially it was US 'space station freedom' program in 1984
2. In 1993 it becomes the international program 'INTERNATIONAL SPACE STATION'
3. Total 16 countries participated ISS program





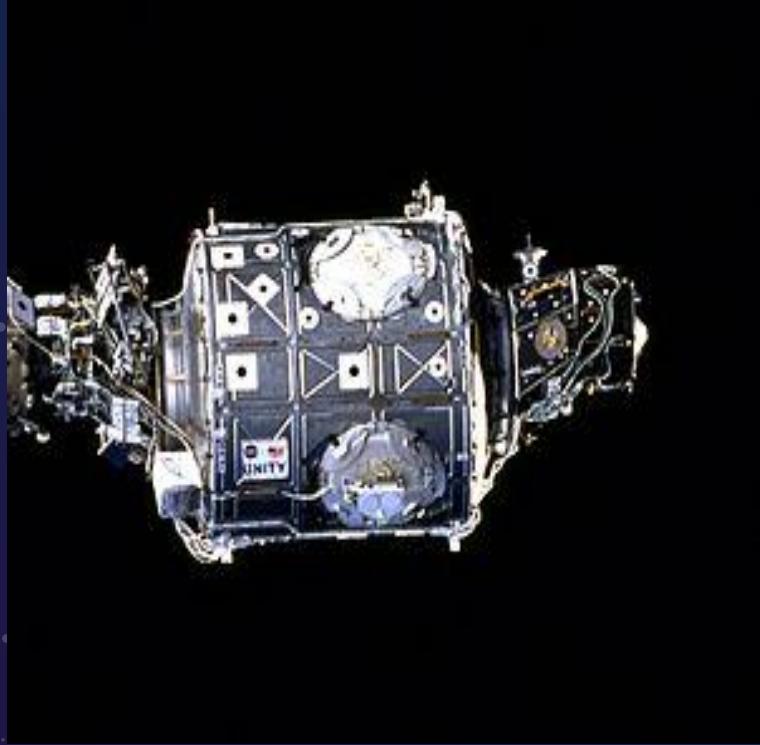
Proton



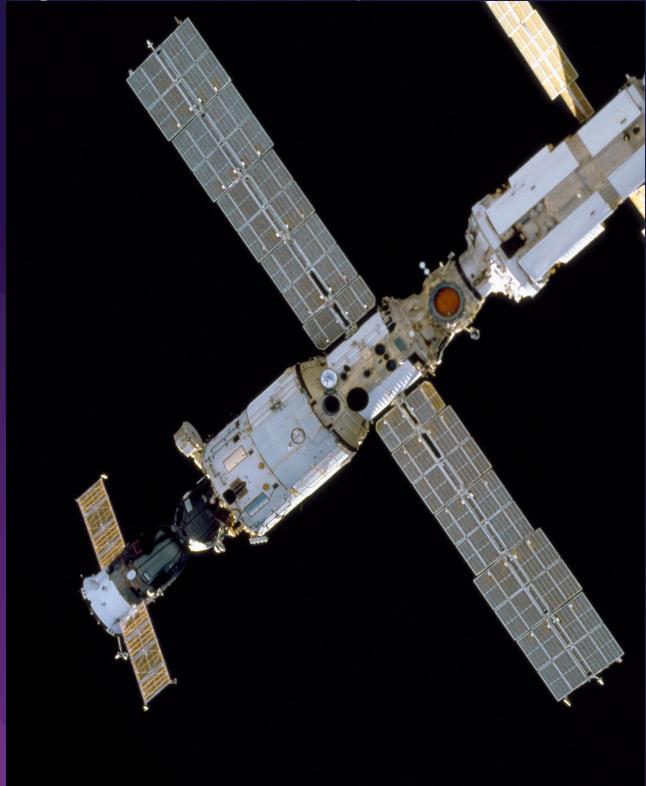
Zarya (nov,1998)



Endeavour



Unity (dec,1998)



Zvezda (2000)



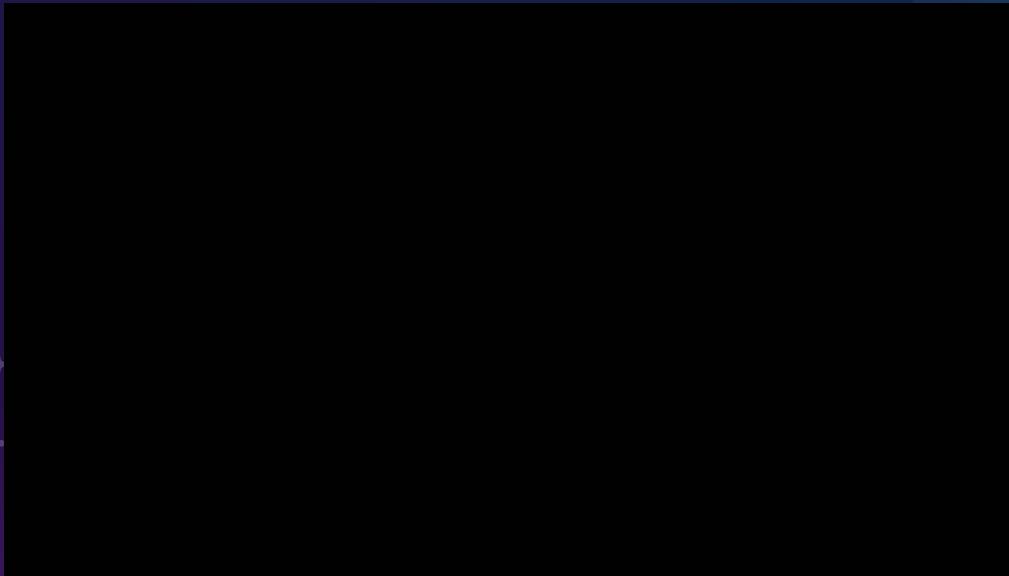
Destiny (2001)



Canadarm (2001)



cupola (2010)

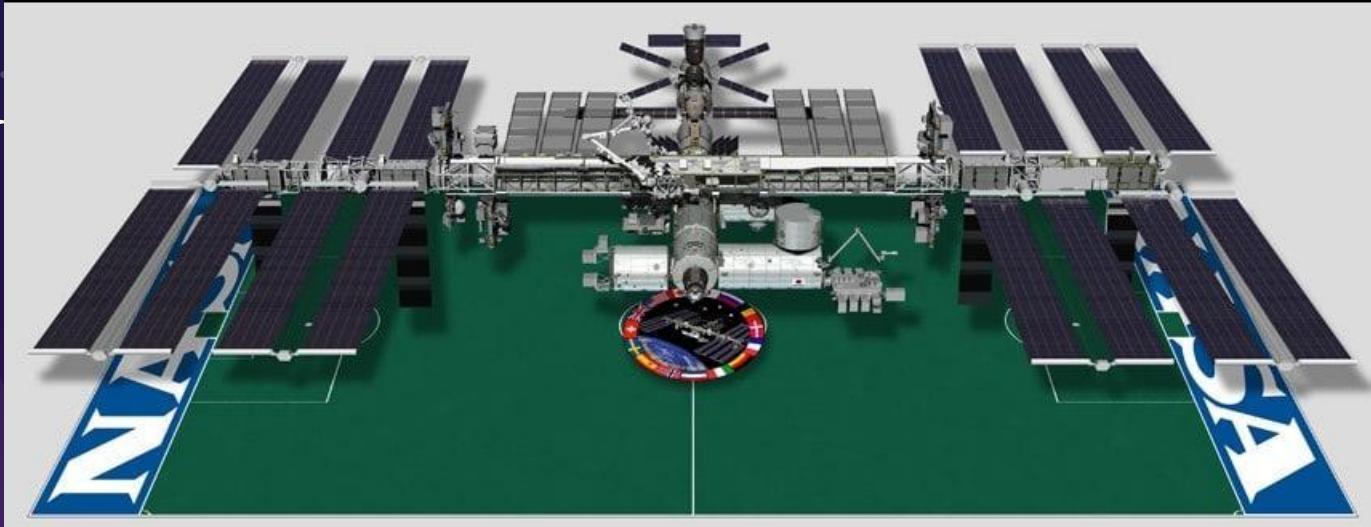


• Time lapse for ISS

Facts of ISS

- ★ It took more than 10 years to build the entire ISS
- ★ It took 150 billion dollars
- ★ It has speed of 28000 km/hr.
- ★ It can revolve earth in 92 minutes
- ★ There are always 6 astronauts on board
- ★ It is located at LEO, 400 km above the earth
- ★ It is the largest man made satellite.





The size of ISS is about the size of football ground .

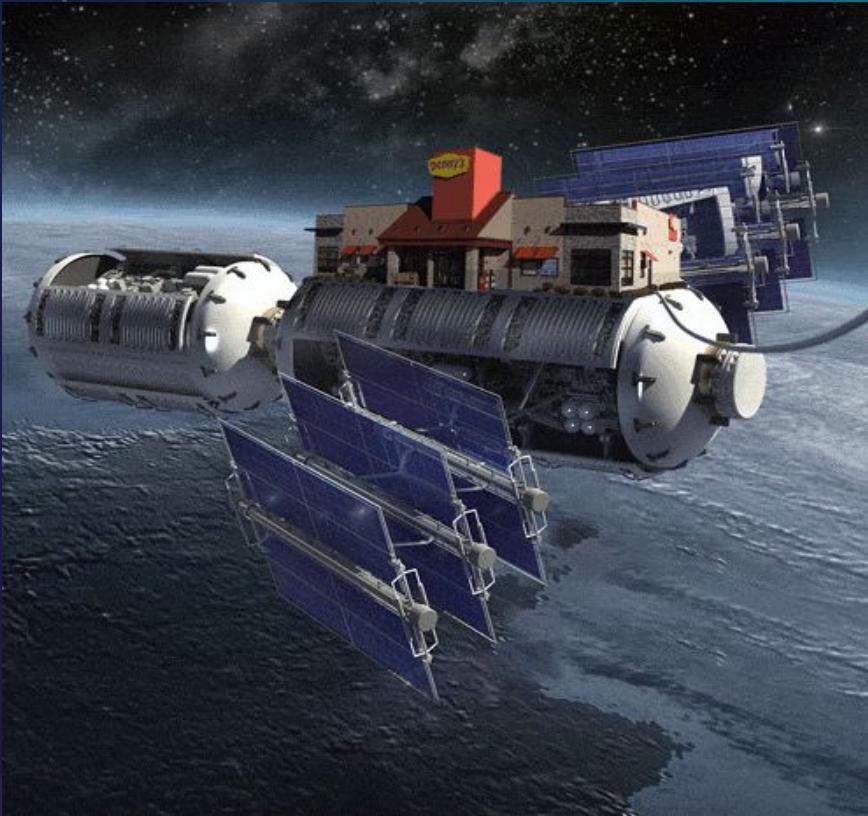
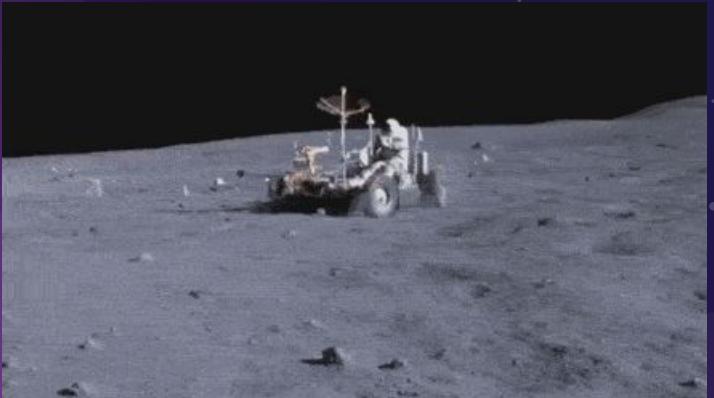


There is no gravity in space !!!!



What astronauts do at ISS ?

1. To conduct the research in microgravity.
2. To study about long term physical and psychological effect of being in space.
3. To observe outer space and universe



EVA (extra vehicular activity)

Life of astronauts at ISS



- The absence of gravity cause to the different lifestyle than that of on earth



Sleeping in a space !!



Drinking a water in space



Exercise in space !!!

Future of the ISS..... ??

The International Space Station (ISS) is the most expensive and complex object ever created by humanity. With the present mission set to end in **2024**, the ISS is currently scheduled to be deorbited and discarded, as were Skylab(in 1974) and Mir (in 2001)



Mir deorbiting (1986-2001)



how future of space stations will look like ?.

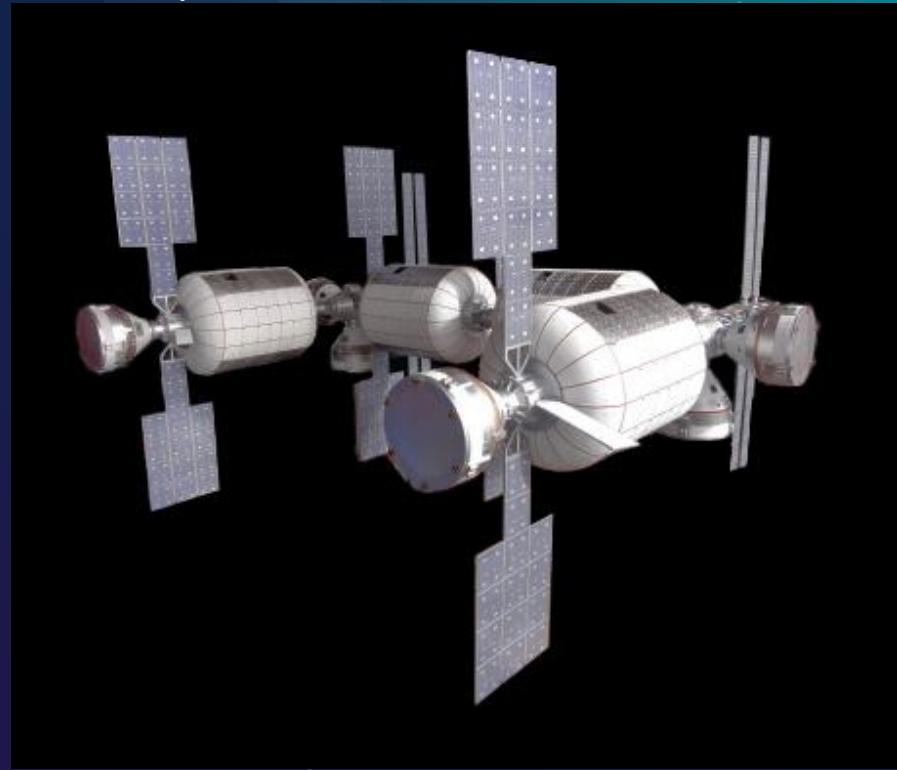




BEAM (bigelow expandable activity module 2016)

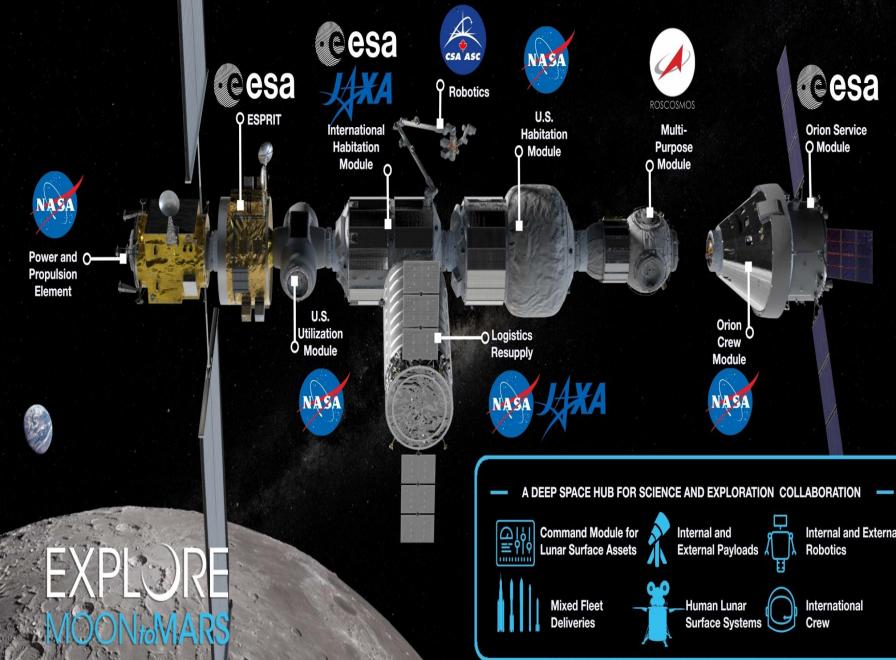


space complex alpha



space complex bravo

GATEWAY CONFIGURATION CONCEPT



- The lunar gateway is a planned space station in lunar orbit intended to serve as a solar powered communication hub, science laboratory and short term habitation module.

Can we spot the station from earth ?

- ★ From most locations on Earth, assuming you have clear **night** skies, you can see **ISS** for yourself. To us on Earth, it looks like a bright star moving quickly from horizon to horizon. As suddenly as it appears, it disappears.

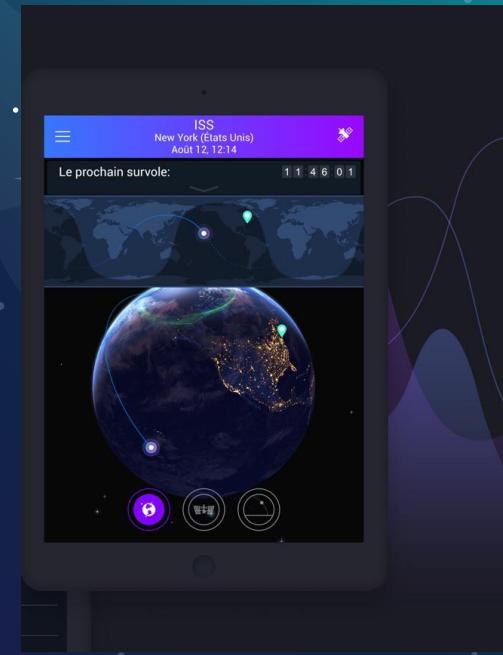


- ★ Different mobile apps to find ISS

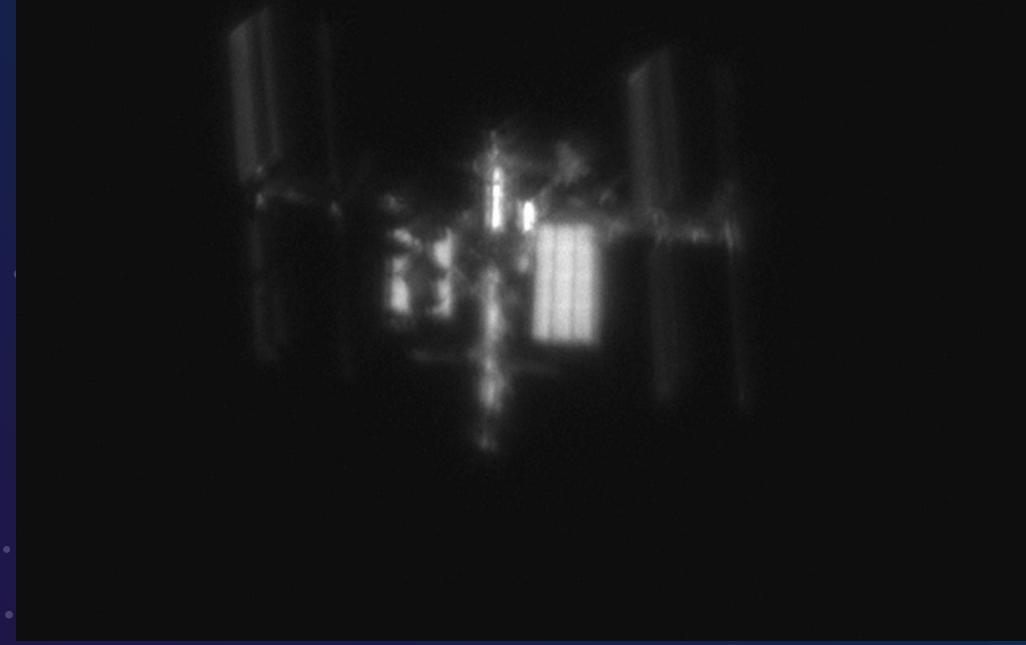
App Store - Apple

Satellite Tracker by Star Walk dans l'App Store

- ★ ISS detector
- ★ Satellite tracker
- ★ ISS on live
- ★ The Space Station



- <https://spotthestation.nasa.gov/> NASA's website to find the ISS from your home
- U can see the actual station using telescope





how to spot station by Smithsonian National Air and Space Museum
source : <https://youtu.be/nqn8zT1VipA>

Quick revision :

1. what is ISS ?
2. history of ISS.
3. facts of ISS.
4. What astronauts do at ISS ?
5. Life of astronauts at ISS.
6. Future of ISS.
7. Space station in future.
8. How to spot station ?

ACTIVITIES :

1. visite the spot the station, enter your location and send us the screen shot.
2. make your own imaginary space station.

Thanks !
Any Questions ?

