



8:35am

Separation
from Rosetta

3:33pm

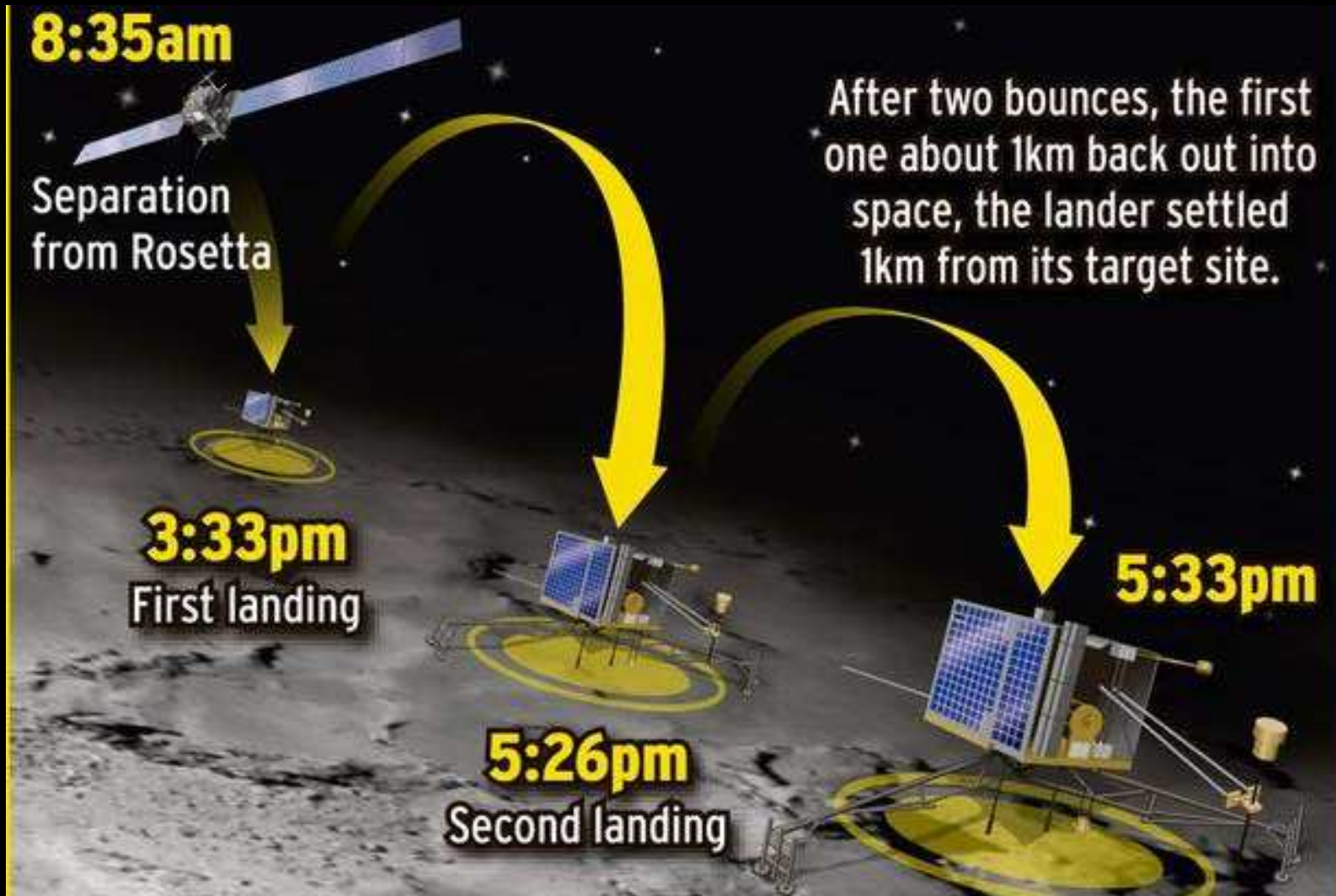
First landing

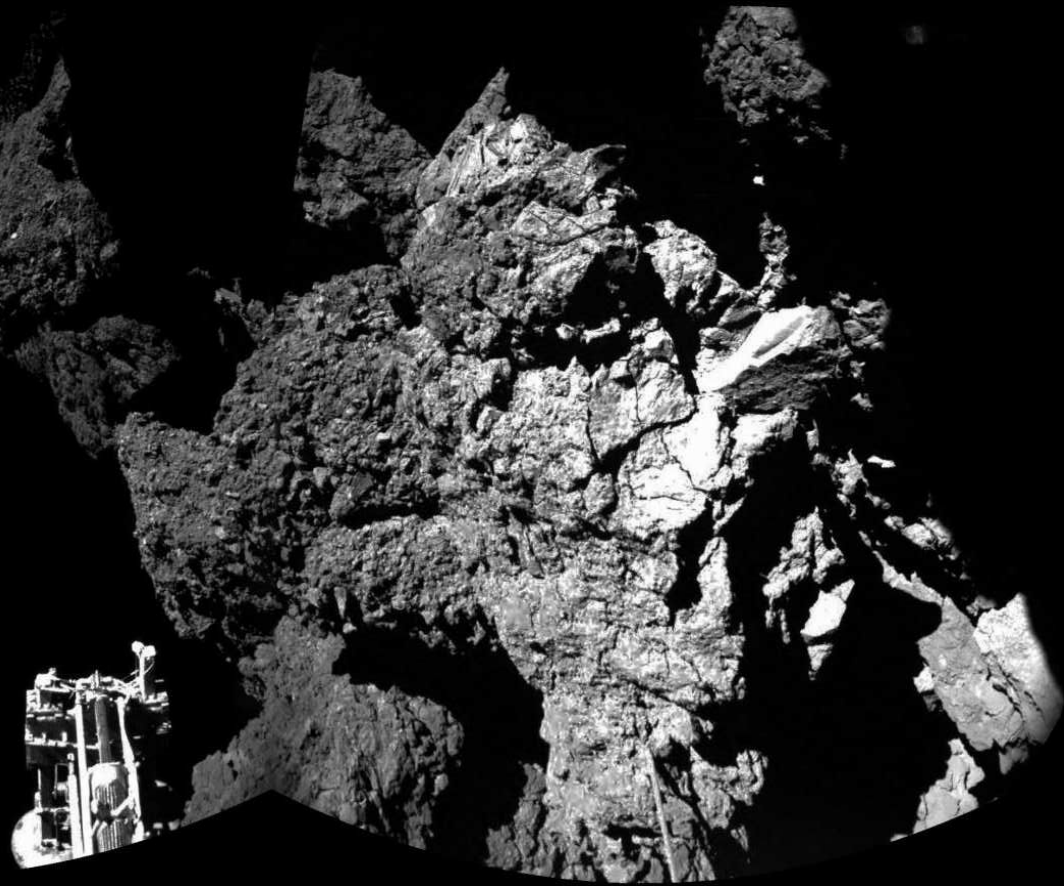
5:26pm

Second landing

5:33pm

After two bounces, the first one about 1km back out into space, the lander settled 1km from its target site.







New Horizon, Pluton,
Nix et Hydre





Space X versus Ariane 6



Greg Wyler,
One Web



Le ciel nous est-il ouvert ?

Notre avenir dépend-il de l'espace ?

Jacques Arnould

The background of the slide is a high-resolution photograph of Earth as seen from space. The image shows a vast expanse of blue oceans and white, fluffy clouds. The curvature of the planet is visible at the top, where the dark blackness of space meets the blue of the atmosphere. The overall scene is bright and clear, providing a sense of global perspective.



Il y a si longtemps....

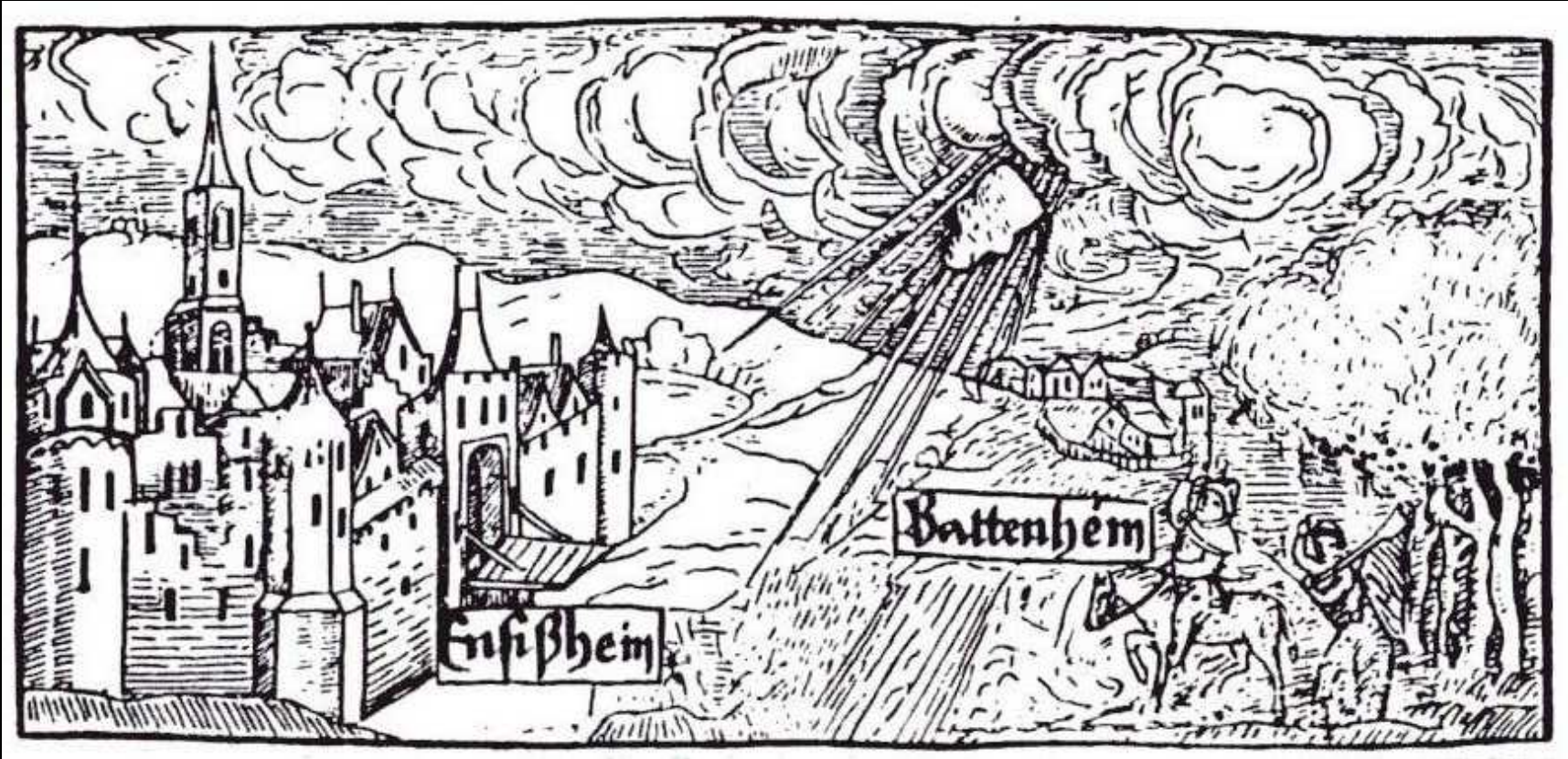


Château d'Abadia

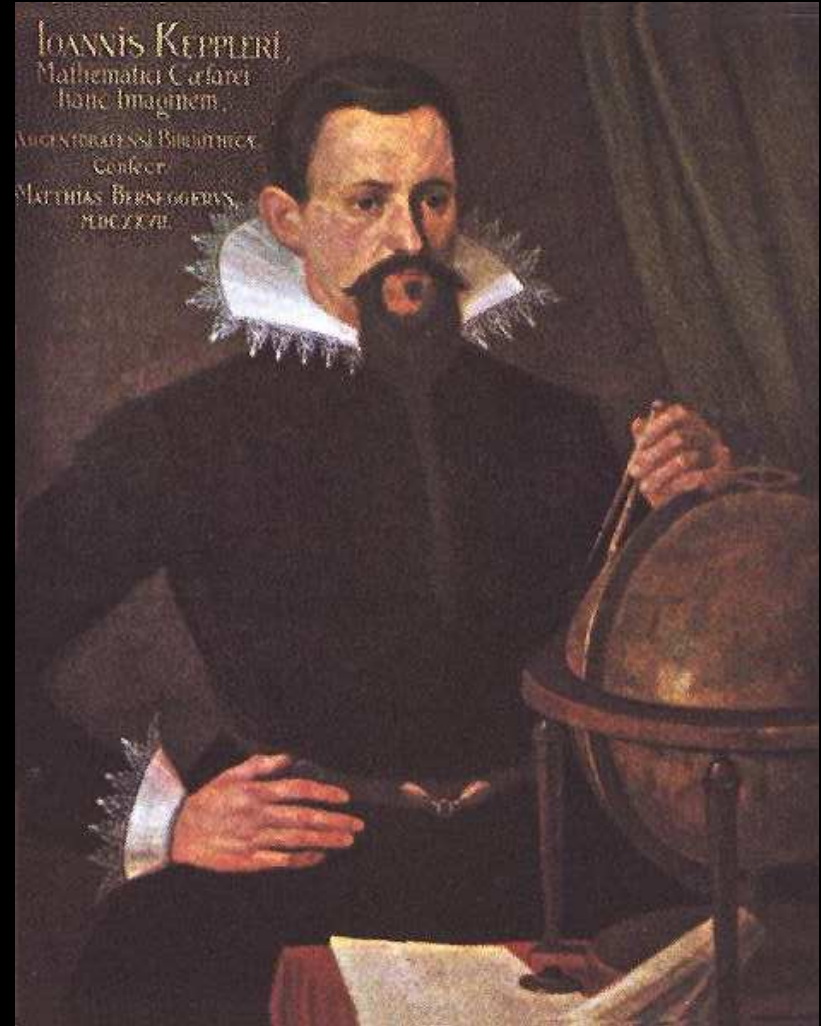


Disque de Nebra,
1600 avant J.C.

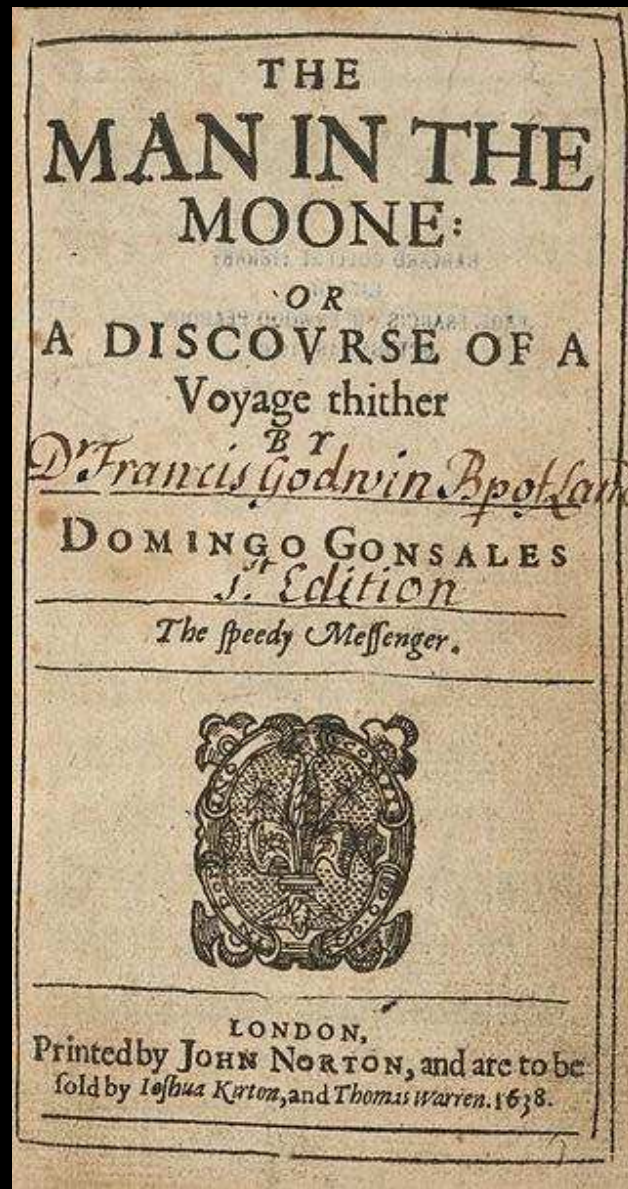




Ensisheim, 7 novembre 1492



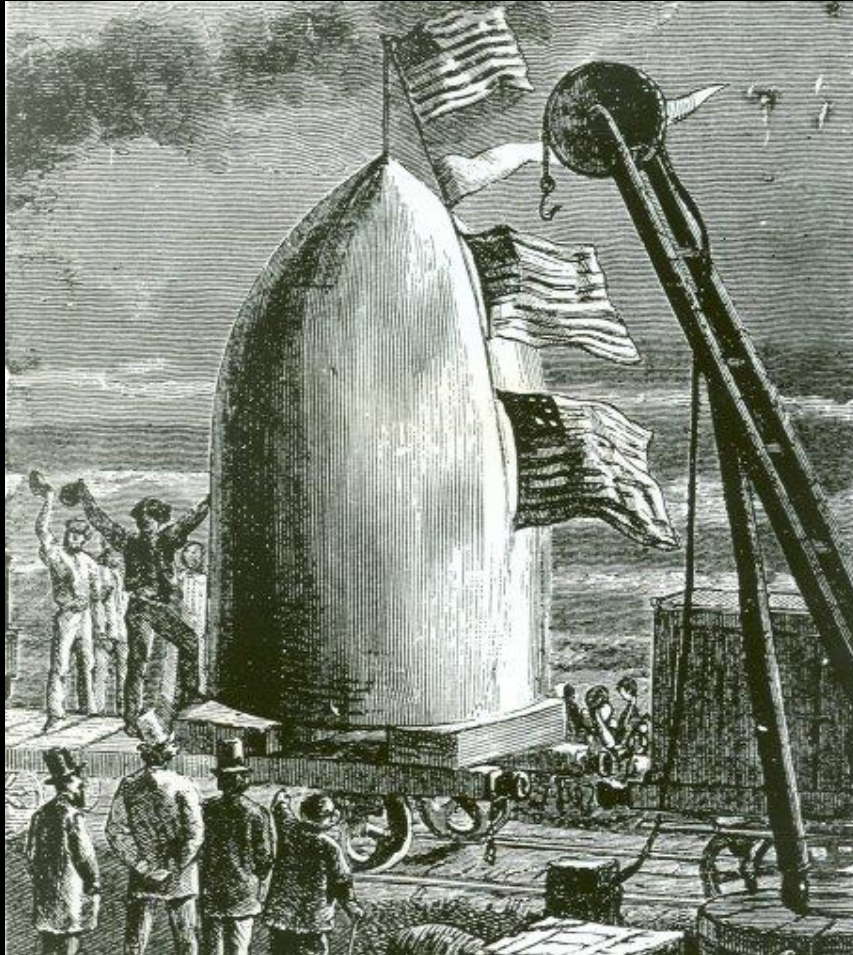
Galiilée et Kepler



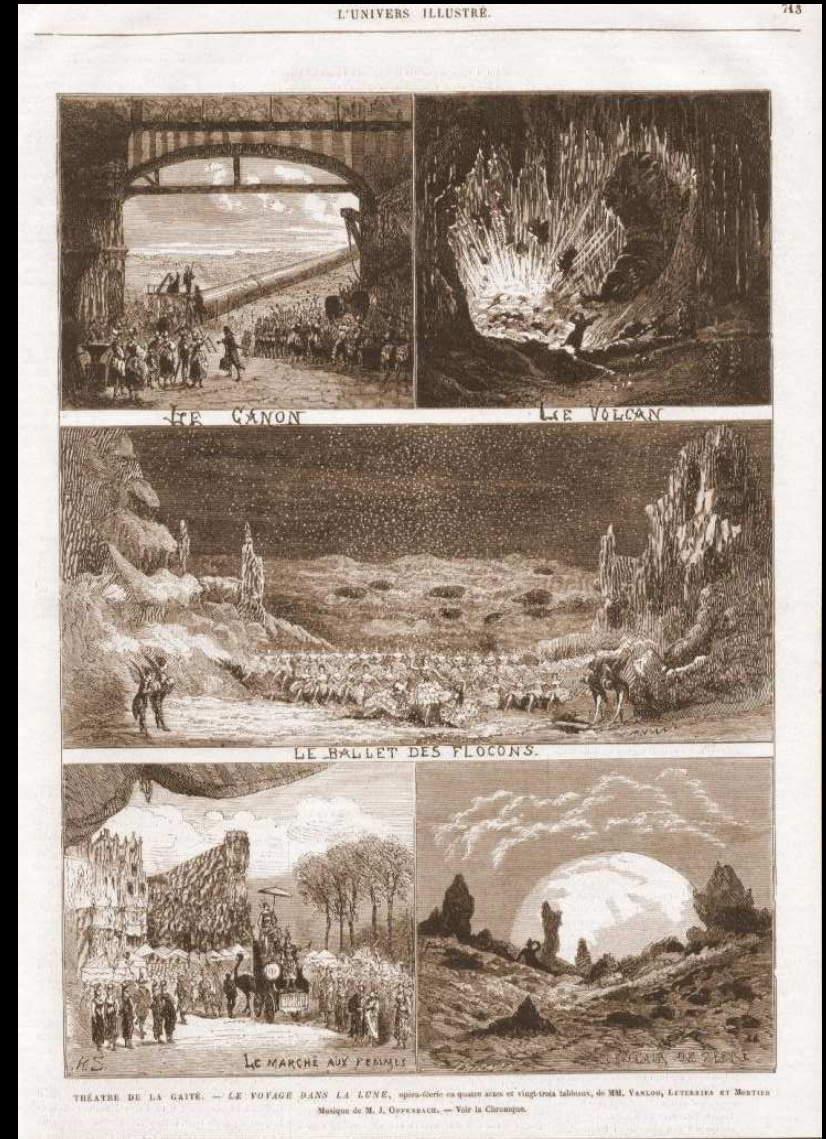
Francis Godwin,
The Man in the Moone, 1638



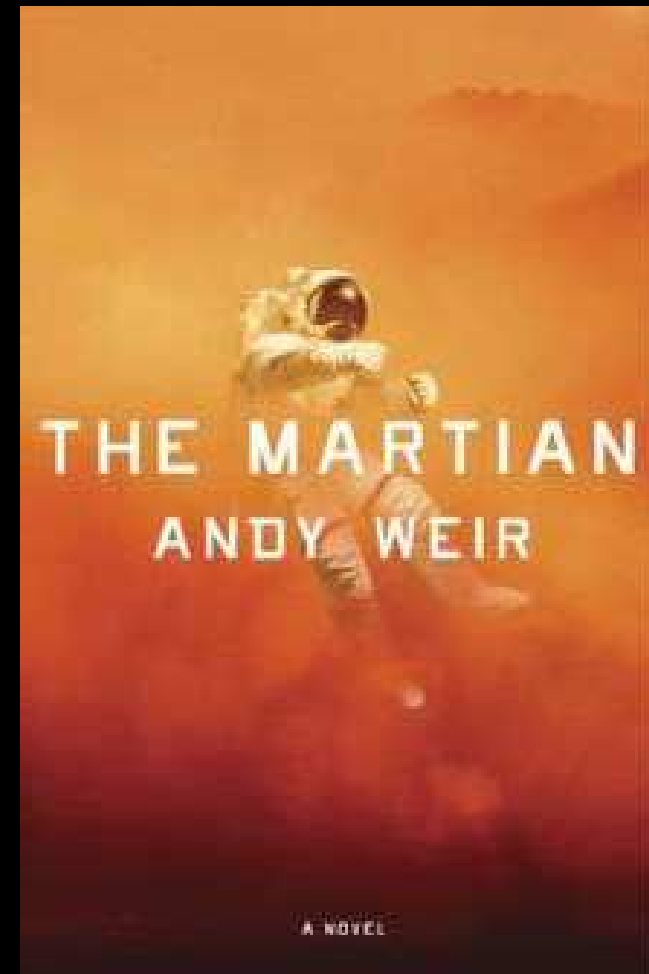
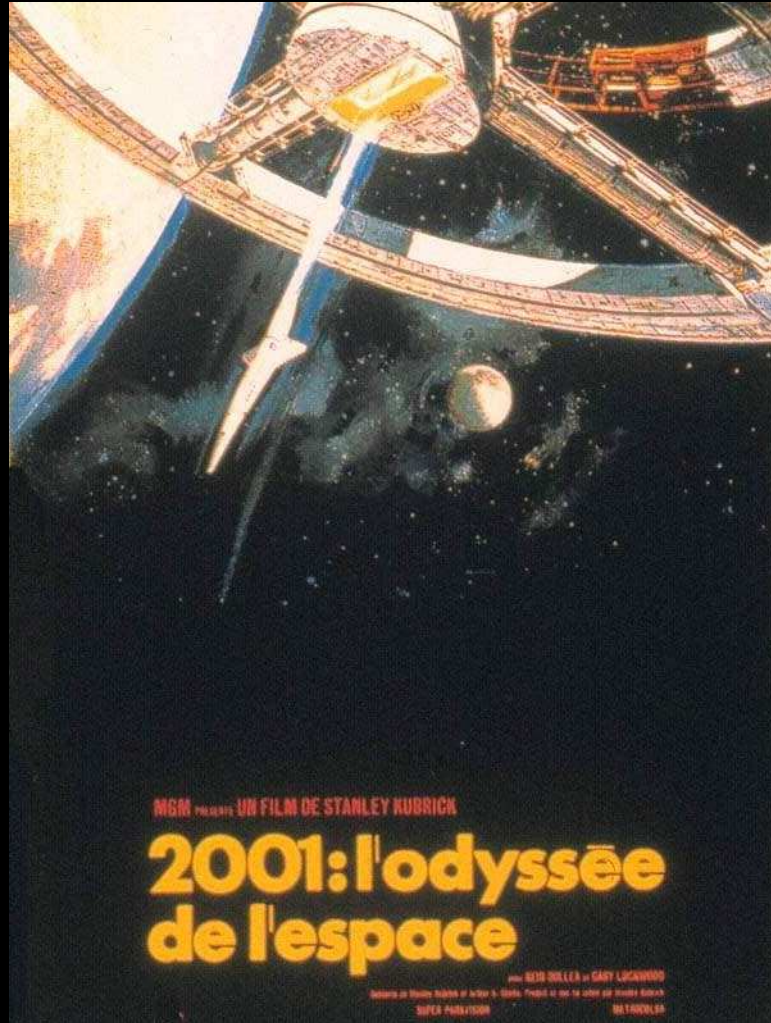
Cyrano de Bergerac,
Histoire comique des Etats et empires de la Lune, 1657

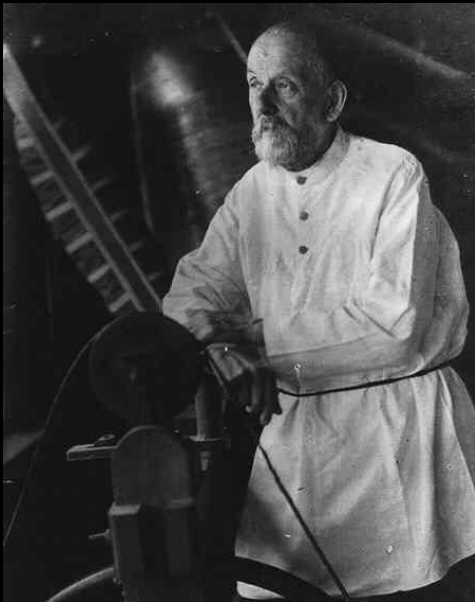


Jules Verne,
De la terre à la lune, 1865

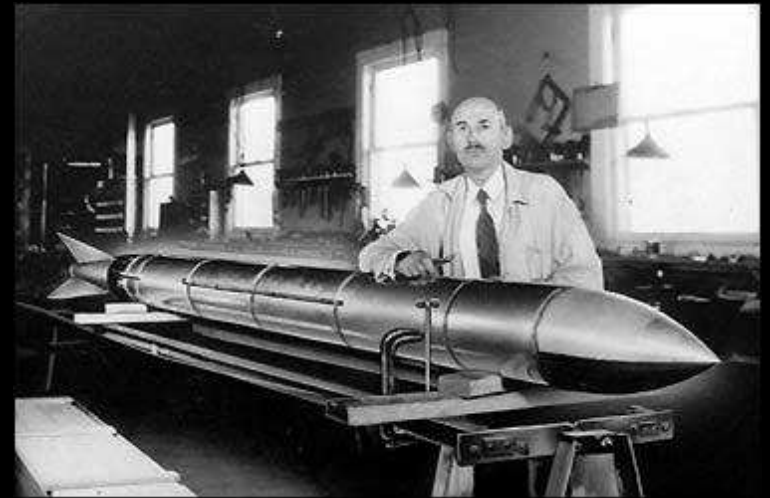


Jacques Offenbach,
Le voyage dans la Lune, 1875





Constantin Tsiolkovski
(1857-1935)



Robert Goddard
(1882-1945)

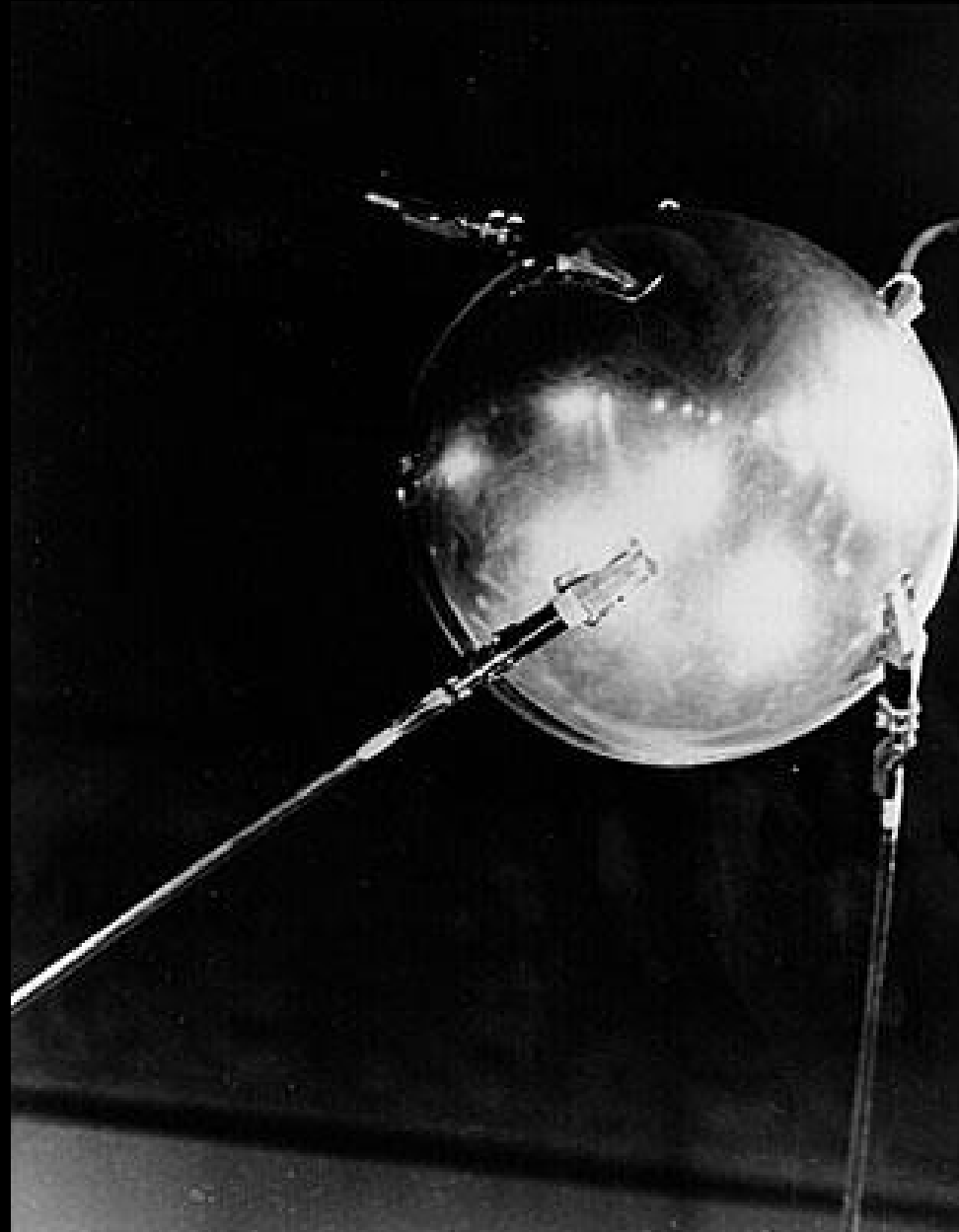


Robert Esnault-Pelterie
(1881-1957)



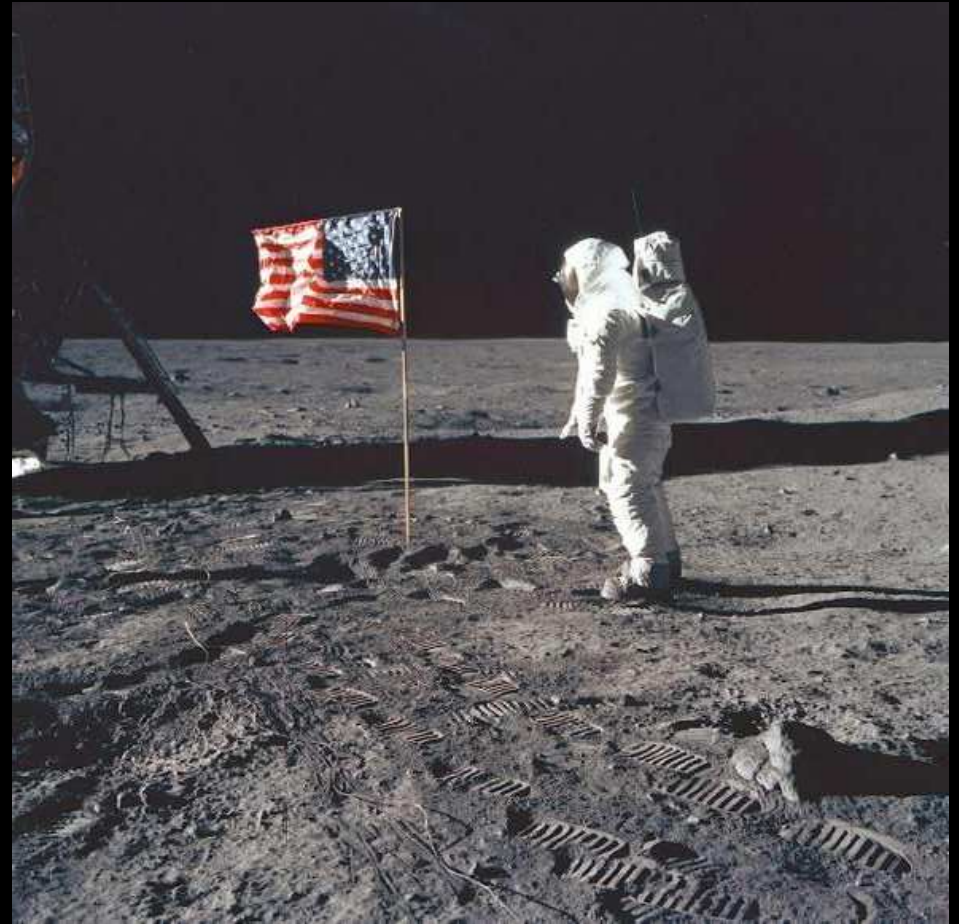
Hermann Oberth
(1894-1989)

Sputnik,
4 octobre 1957



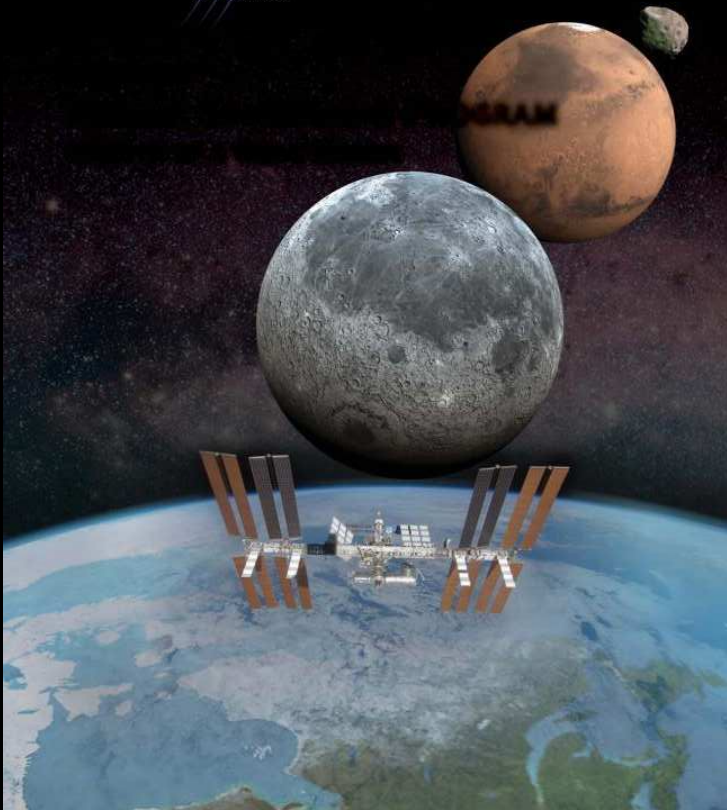


Youri Gagarine,
12 avril 1961



Neil Armstrong & Buzz Aldrin,
21 juillet 1969

... et tant « d'autres choses »...



« Nous explorons pour atteindre des buts et pas seulement des destinations. [...] il y a un danger à choisir d'abord des destinations, à définir d'abord des architectures. Le danger de rester coincé sur une destination sans avoir une compréhension claire du pourquoi de notre choix... »
(Augustine Report, 2009)

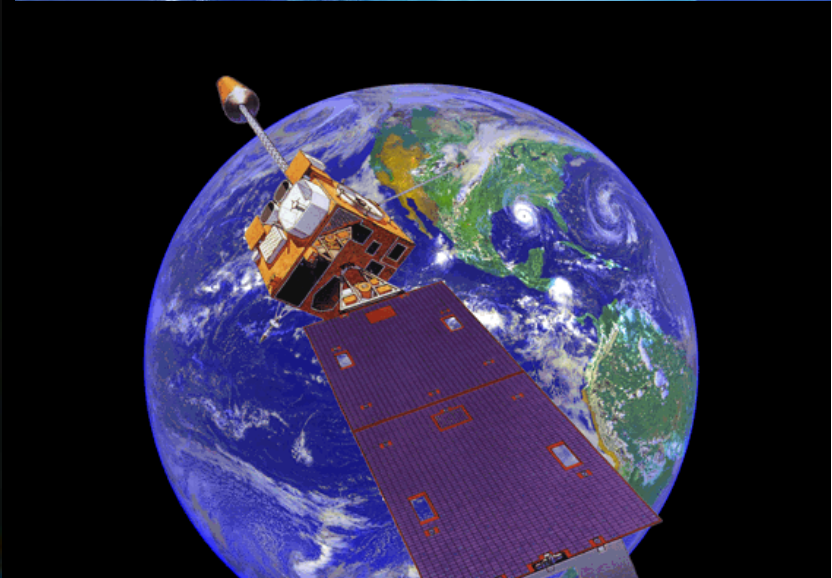
Pourquoi ?

Comment ?

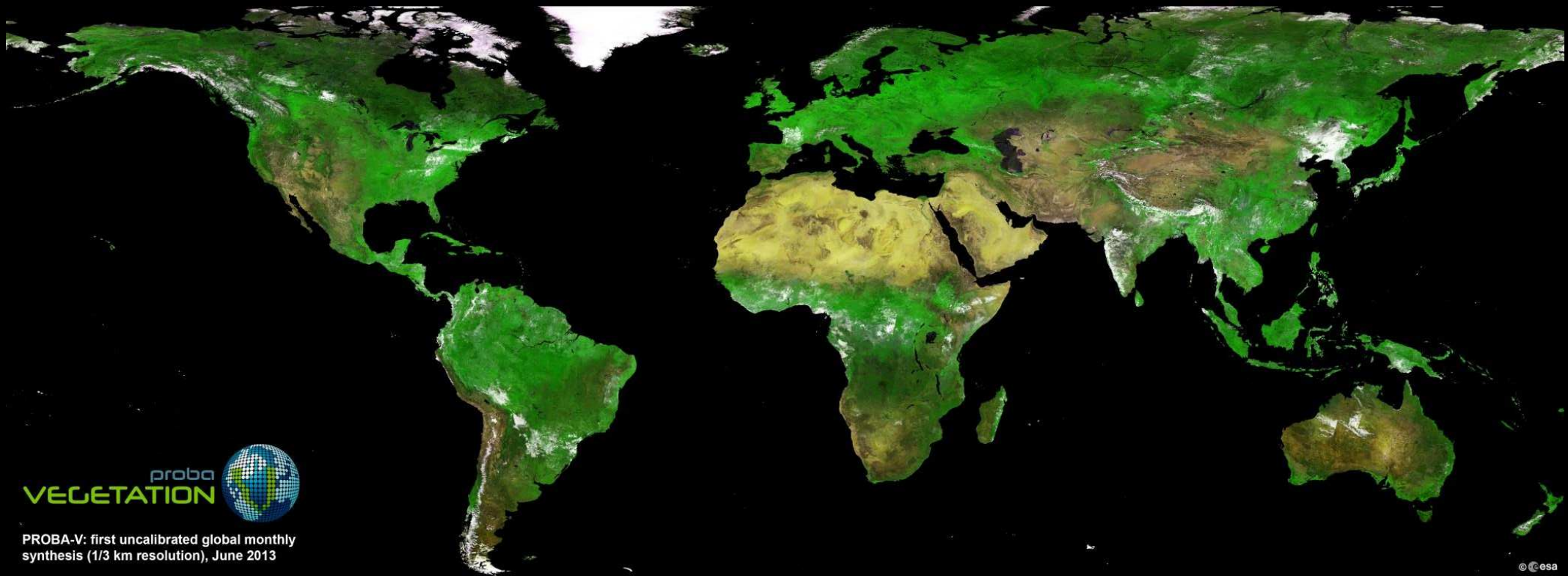
Avec quelles conséquences ?



L'espace utile



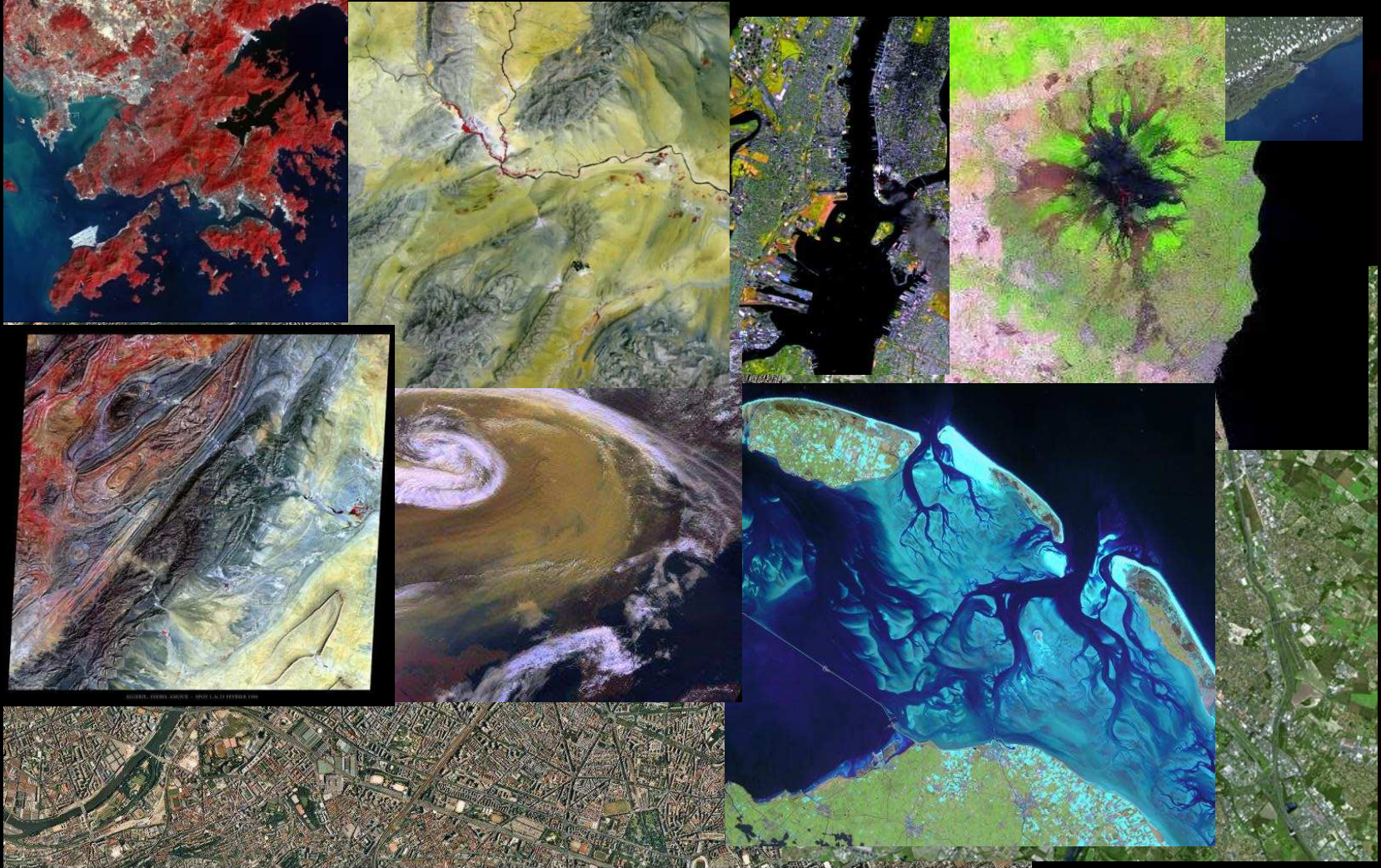


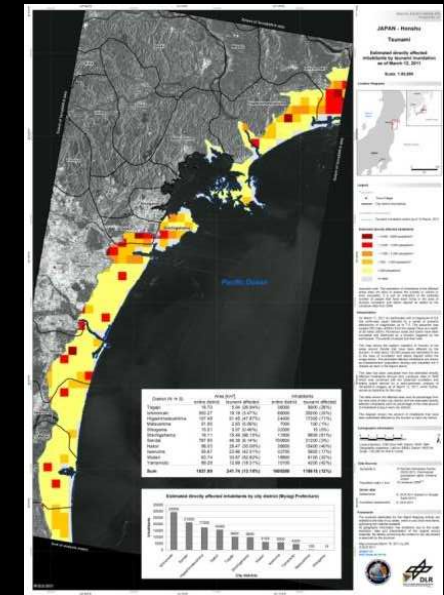
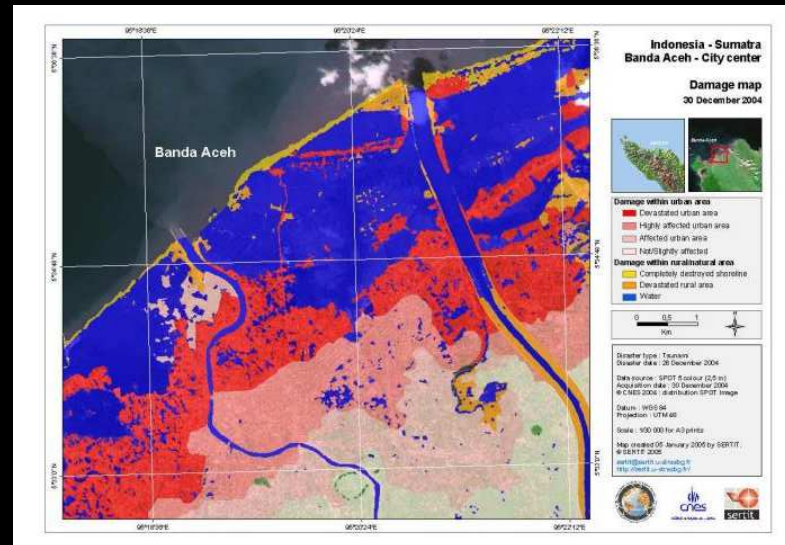


proba
VEGETATION



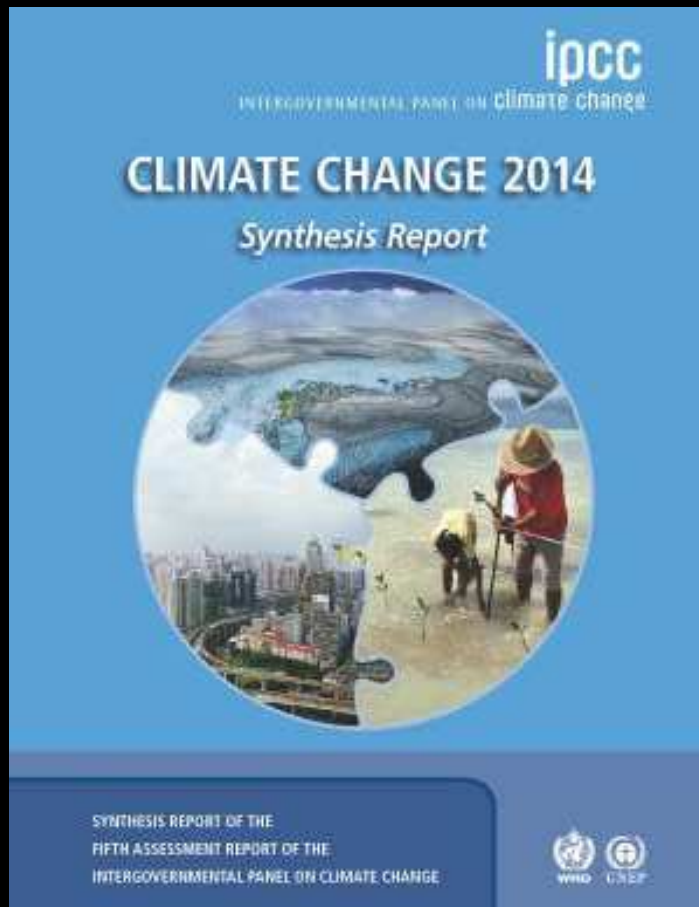
PROBA-V: first uncalibrated global monthly
synthesis (1/3 km resolution), June 2013





2002- 2014 : 450 activations

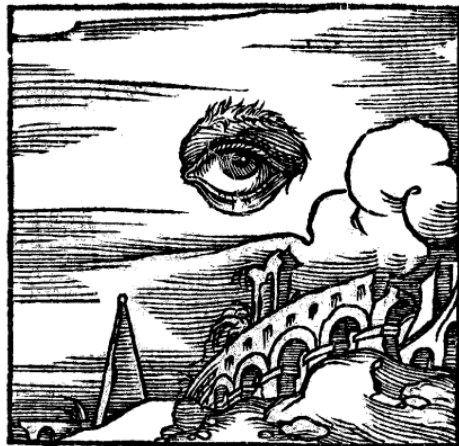
Notre « perle bleue » et le changement climatique





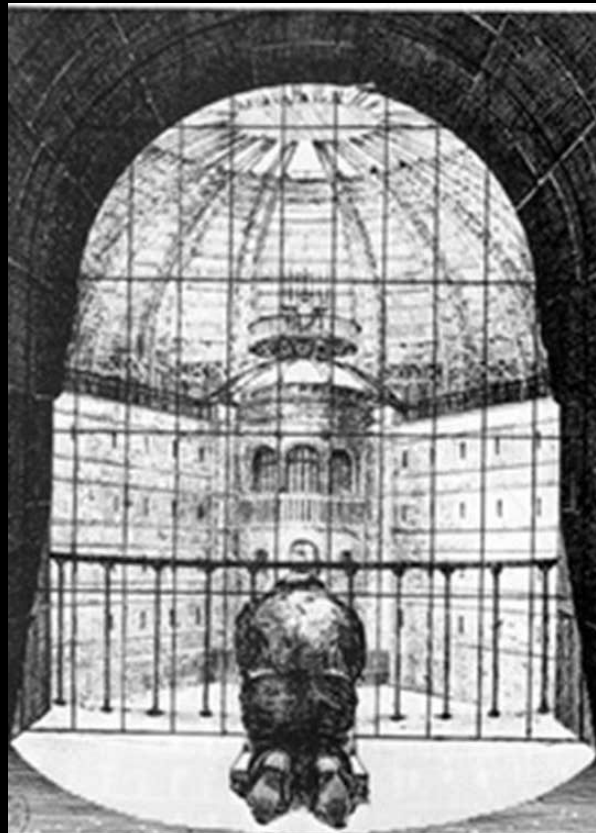


Big Brother serait-il dans l'espace ?

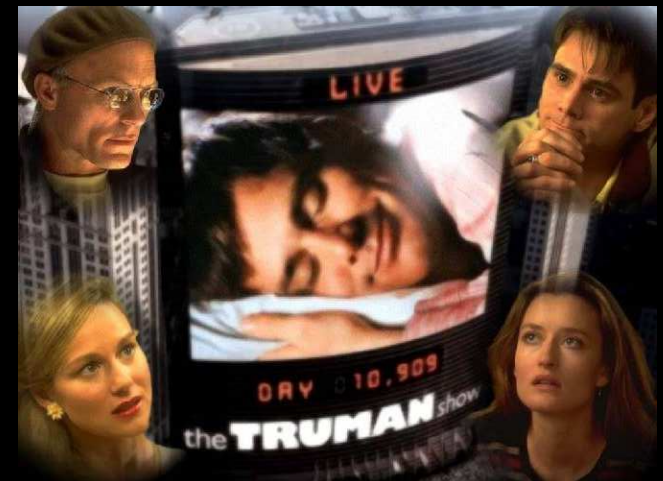


*Comment ilz signifoient
Dieu.*

Pour signifier dieu ilz paignoient vng oeil pource que ainsi que loeil veoit & regarde ce qui est audeuant de luy dieu veoit confidere & congnoit toutes choses.



Jeremy Bentham's Panopticon: A prison where the prisoner is always visible, always under the surveillance and the power of the State.



Quand le voyeurisme est déclaré vertueux...





« Nous ne pourrons plus dire que nous ne savions pas. »

« Ceux qui sont prêts à sacrifier un peu
de leur liberté au nom de leur sécurité ne
méritent ni l'une ni l'autre. »
(Benjamin Franklin)



La banlieue terrestre est-elle devenue un dépotoir ?

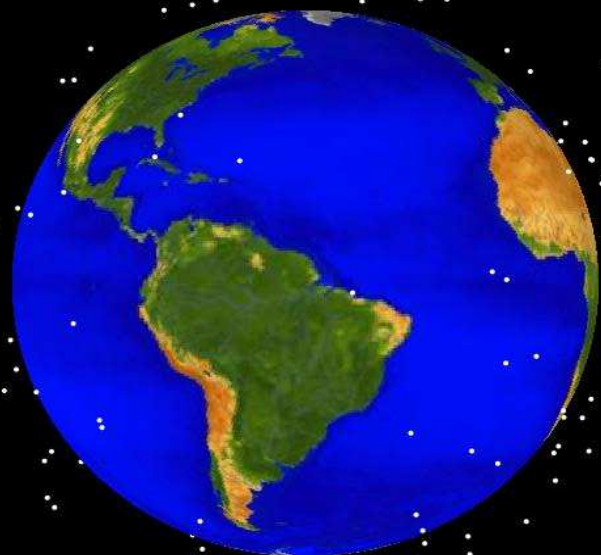


1960



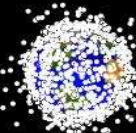
Objets catalogués > 10 cm de diamètre

1965



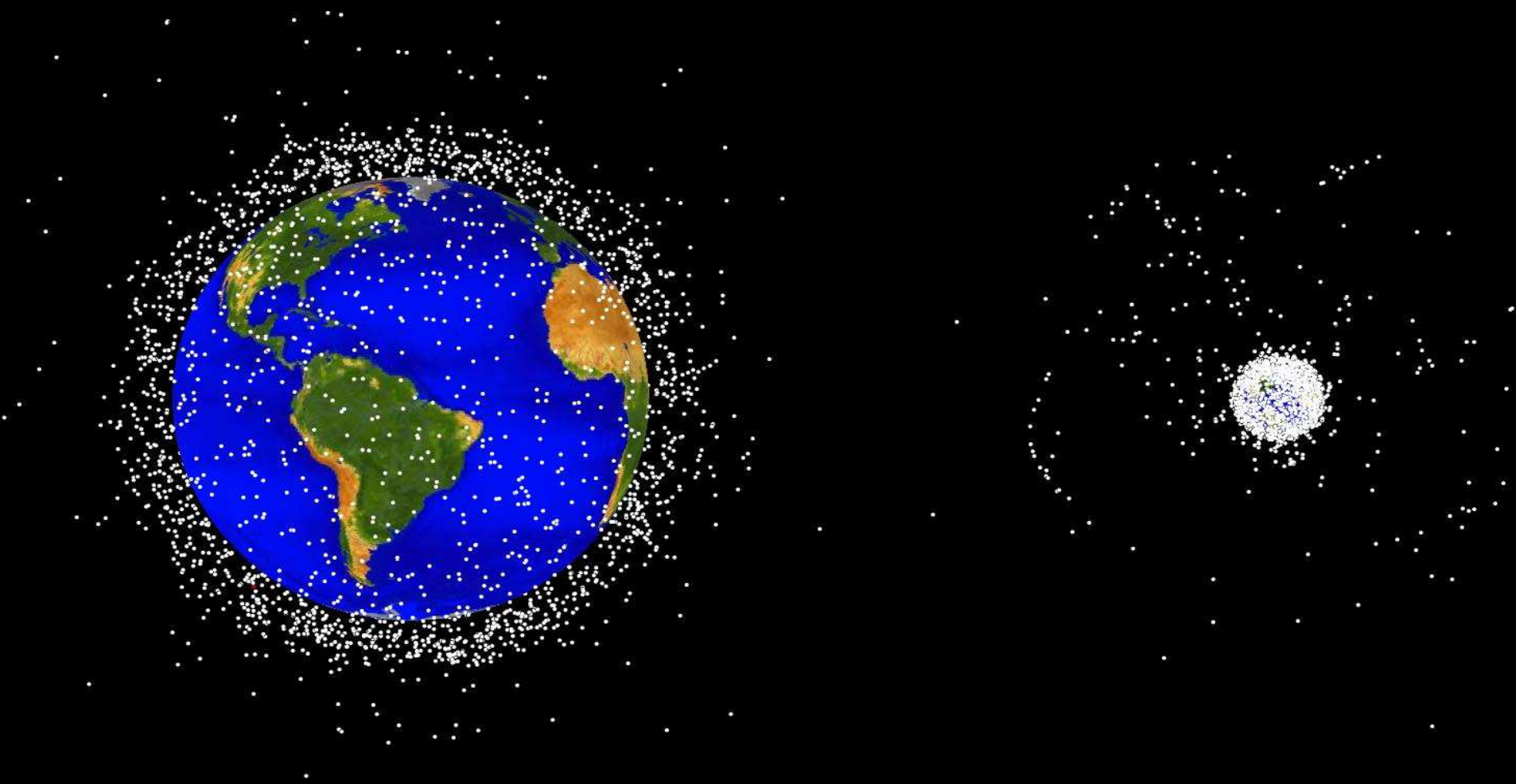
Objets catalogués > 10 cm de diamètre

1970



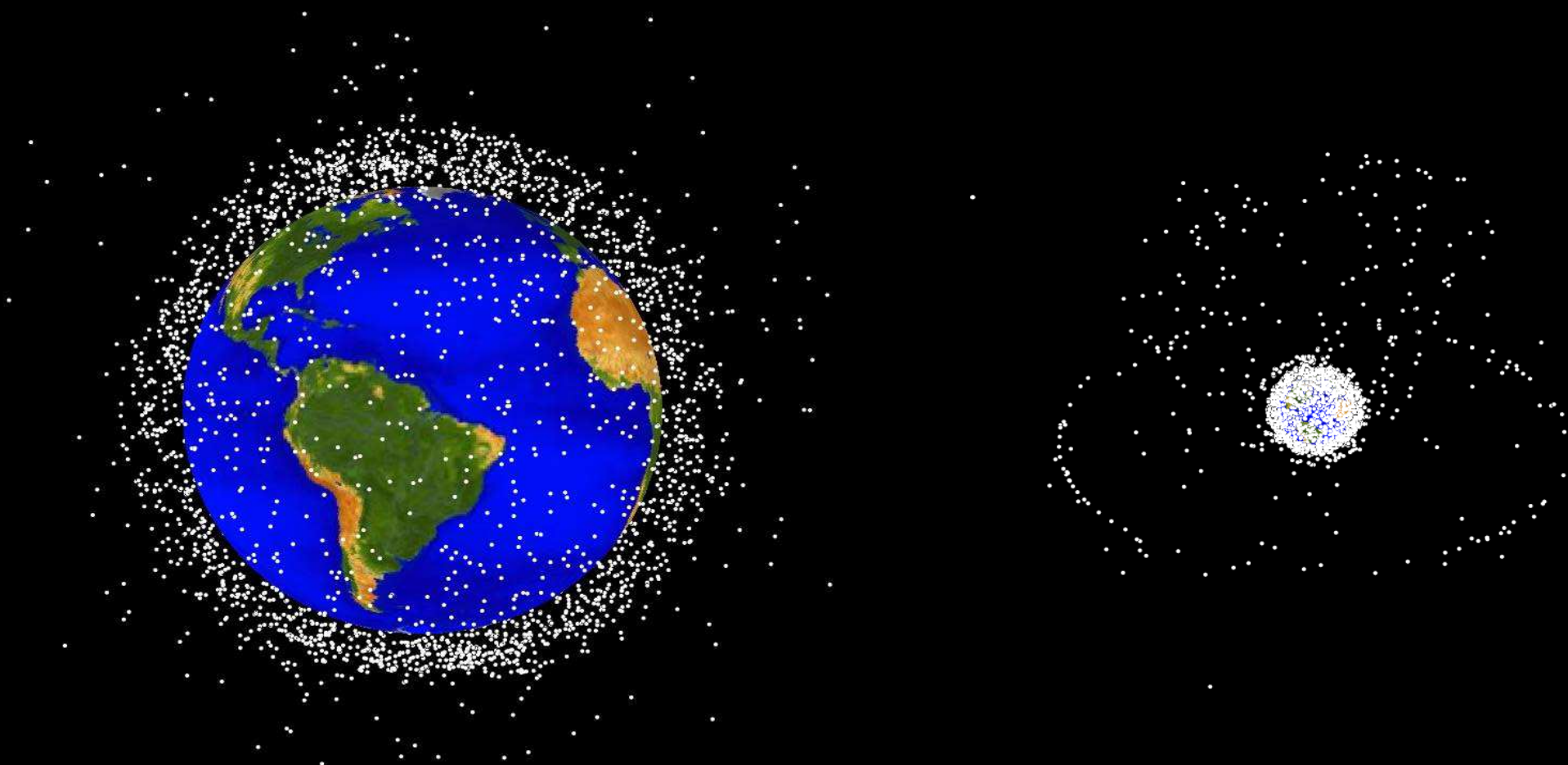
Objets catalogués > 10 cm de diamètre

1975



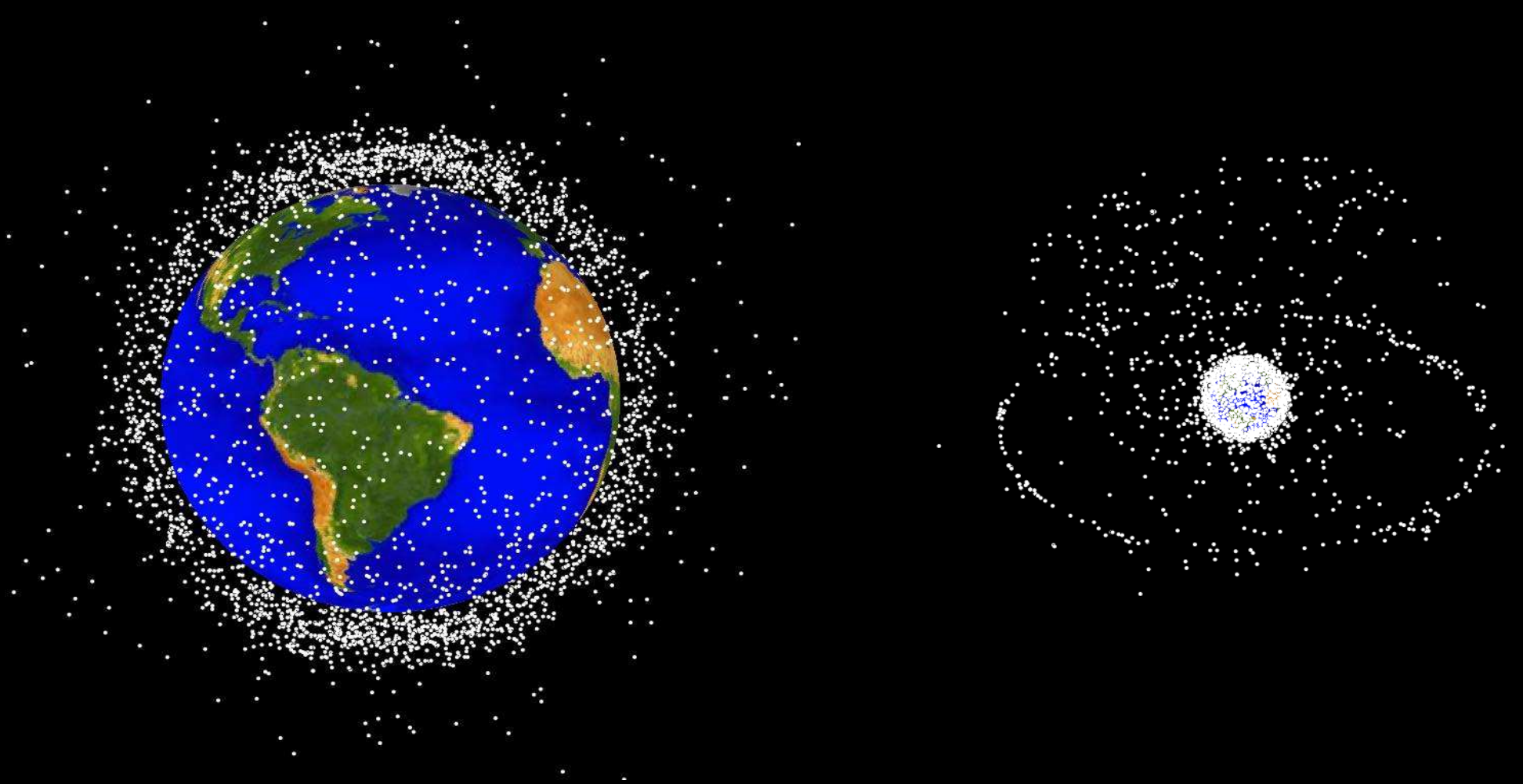
Objets catalogués > 10 cm de diamètre

1980



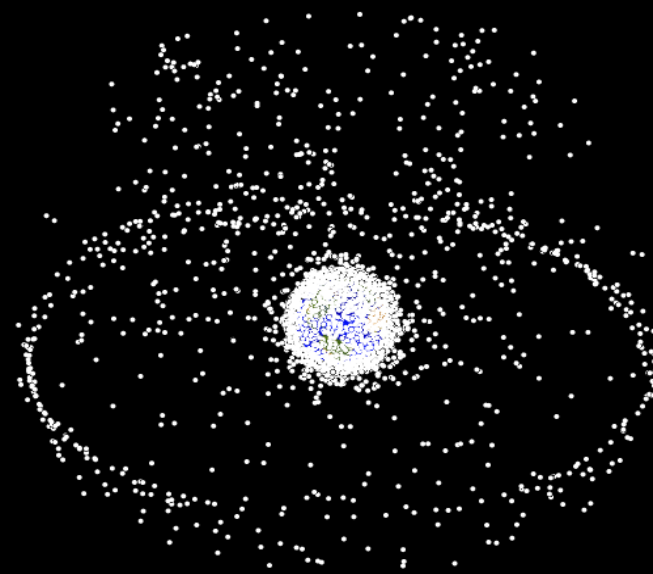
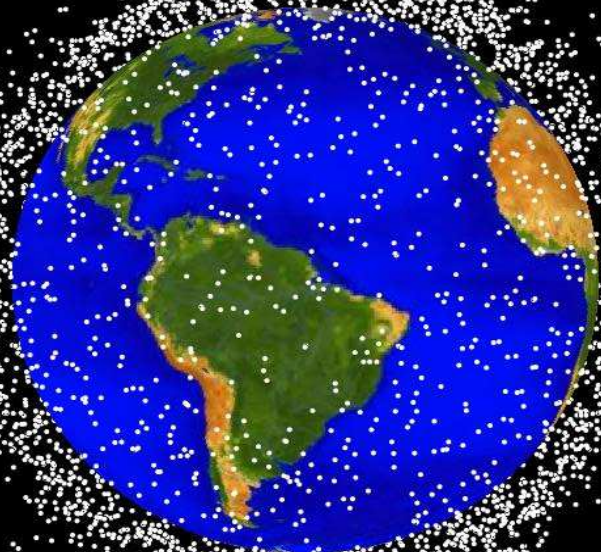
Objets catalogués > 10 cm de diamètre

1985



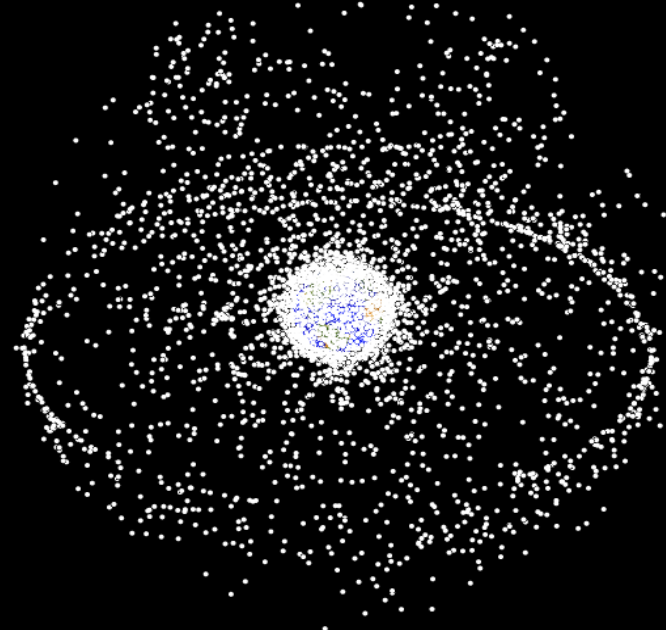
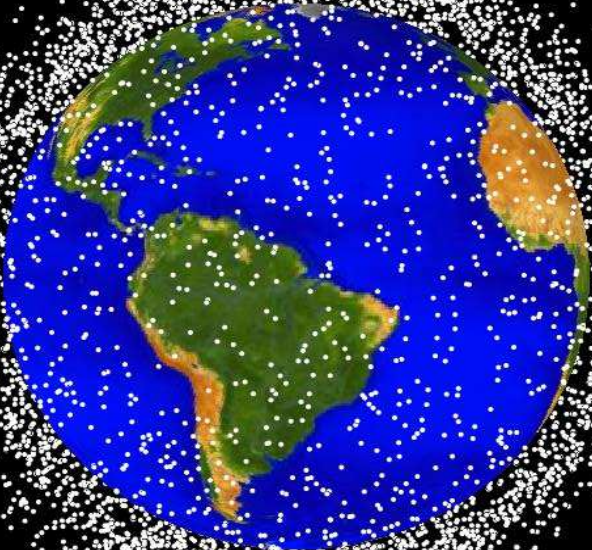
Objets catalogués > 10 cm de diamètre

1990



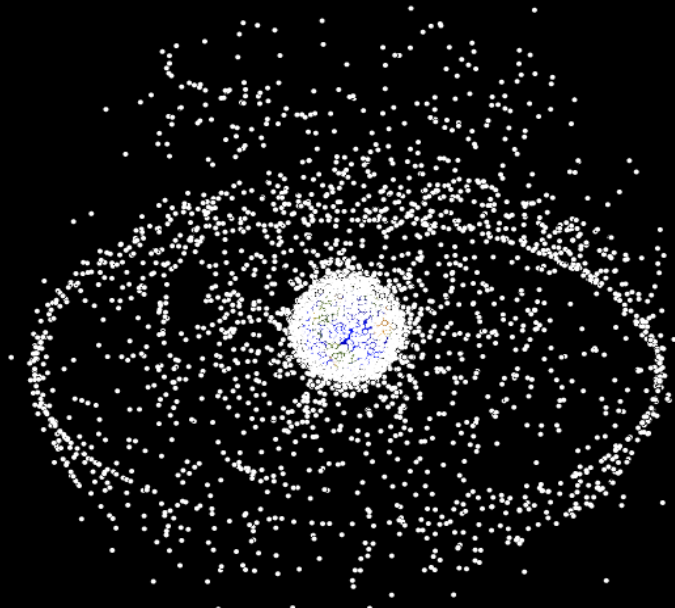
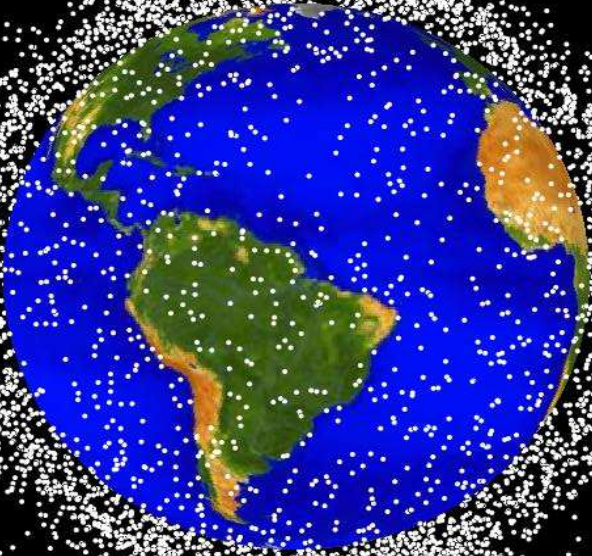
Objets catalogués > 10 cm de diamètre

1995



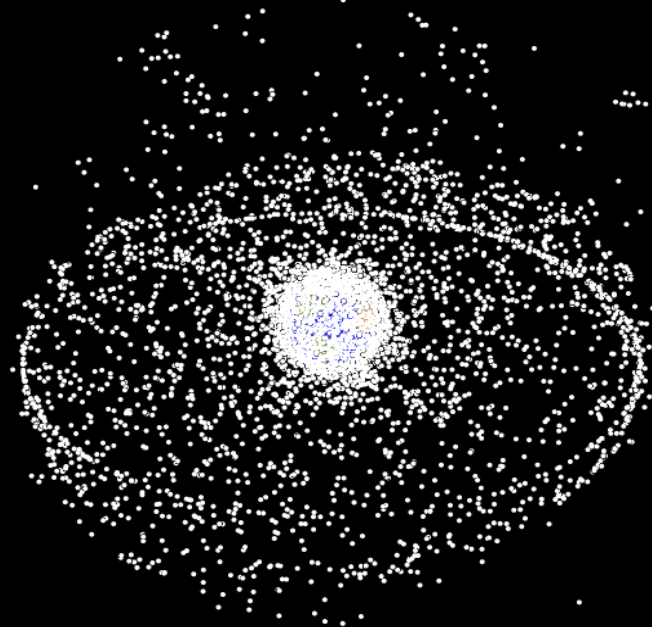
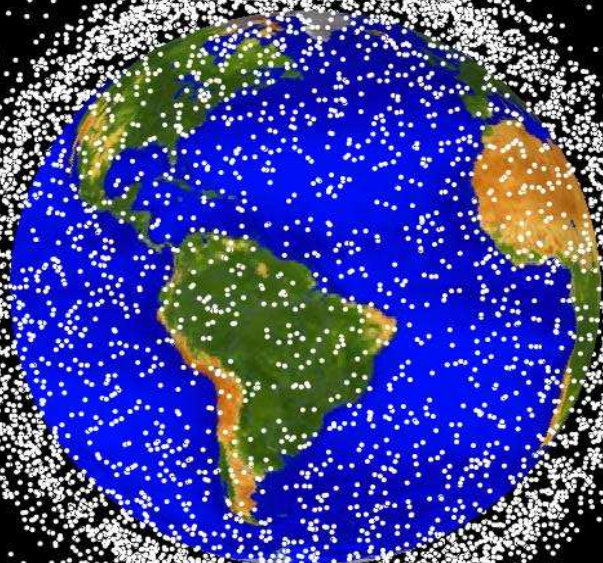
Objets catalogués > 10 cm de diamètre

2000



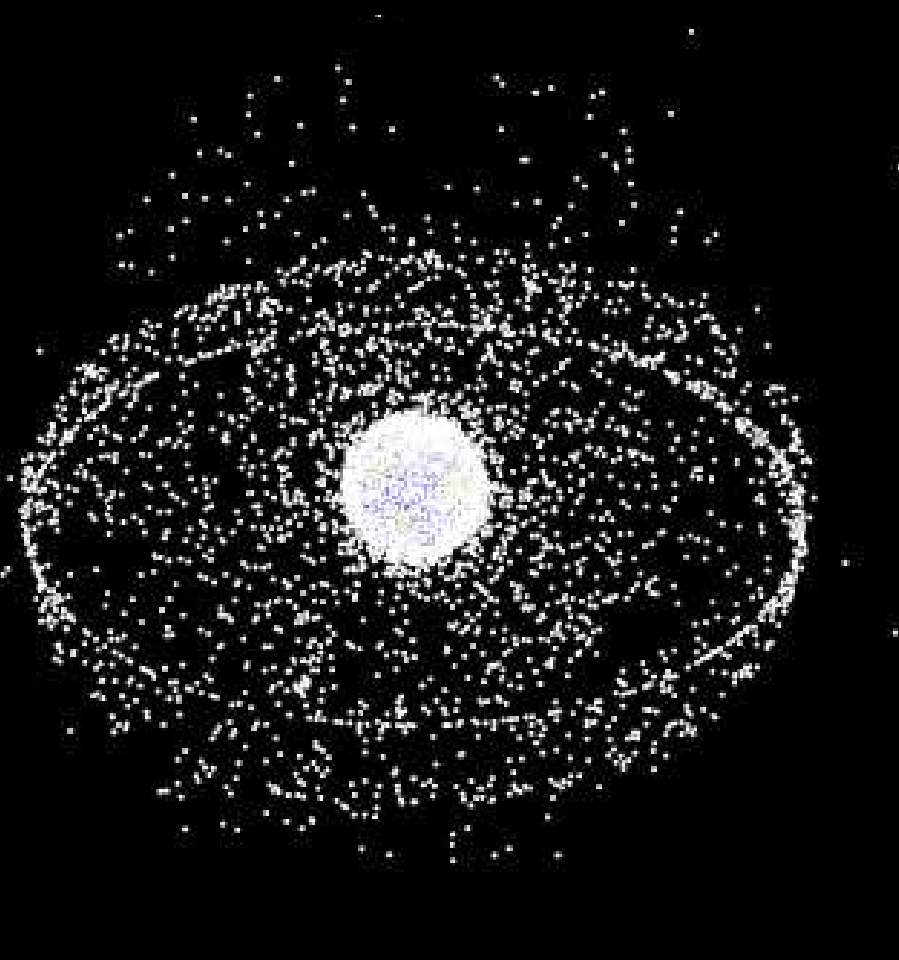
Objets catalogués > 10 cm de diamètre

2005



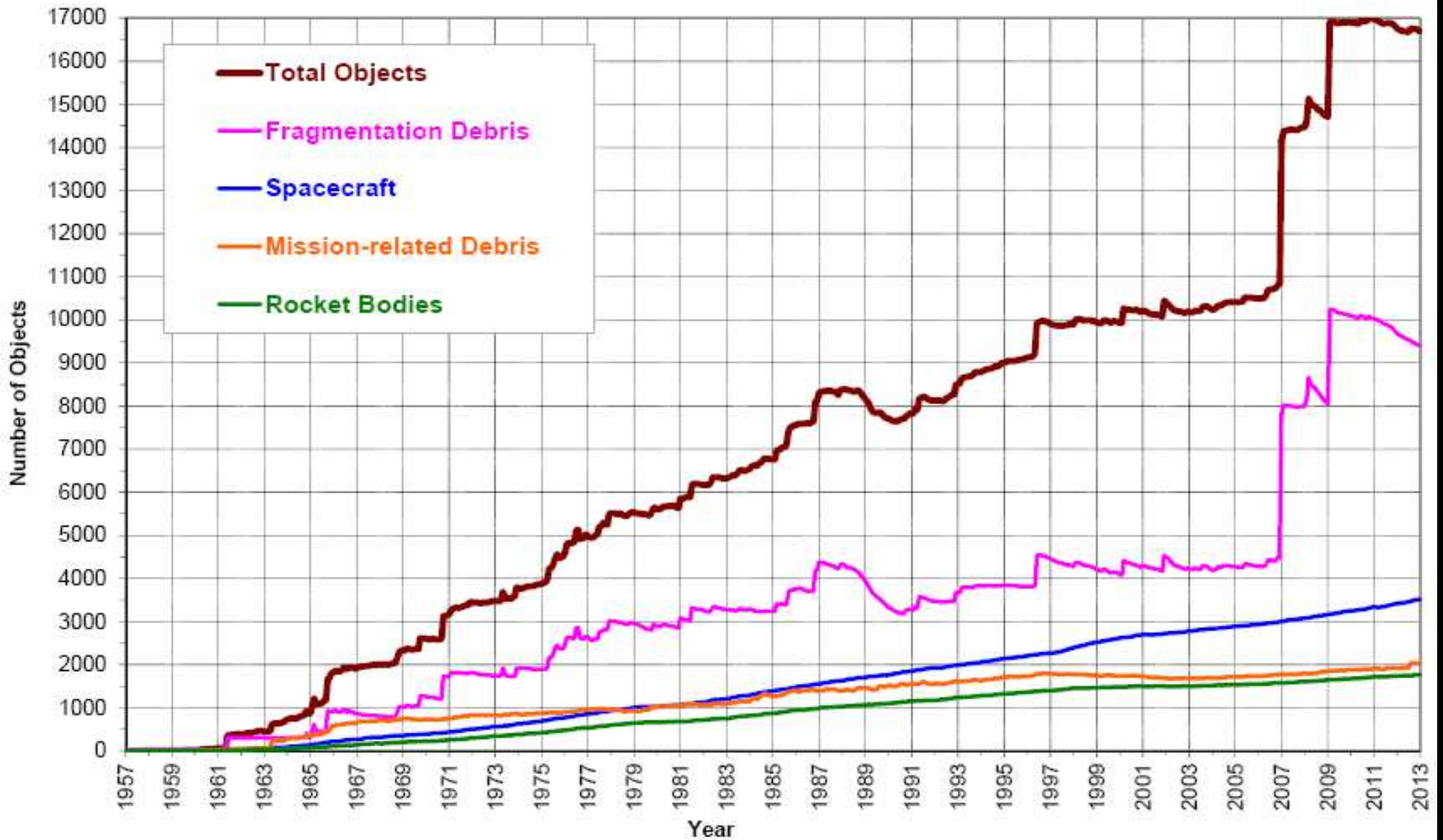
Objets catalogués > 10 cm de diamètre

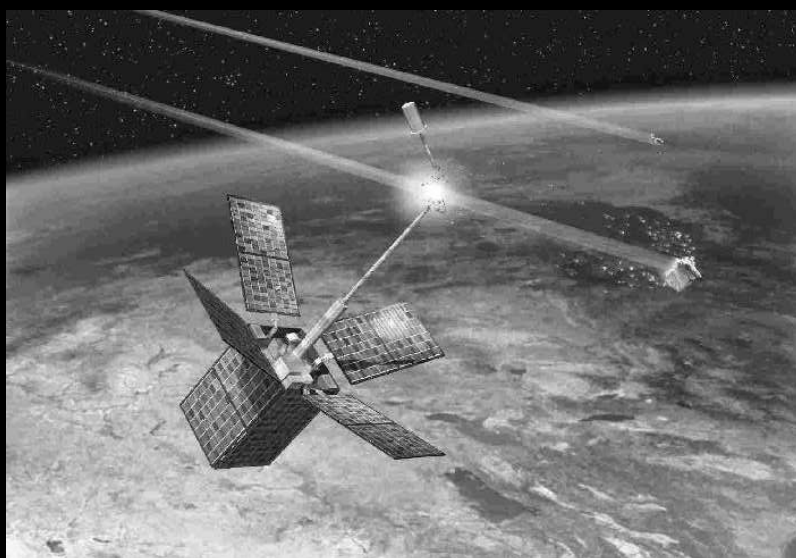
2010



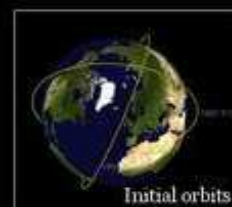
Objets catalogués > 10 cm de diamètre

Monthly Number of Objects in Earth Orbit by Object Type



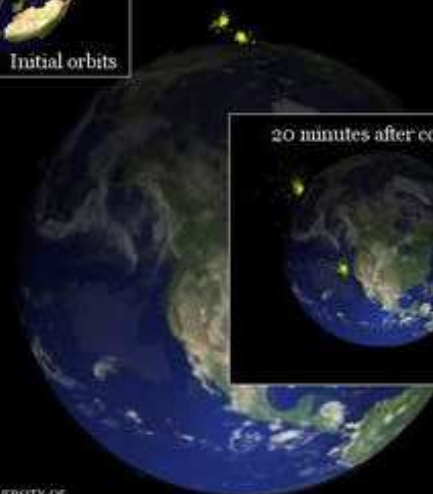


1996



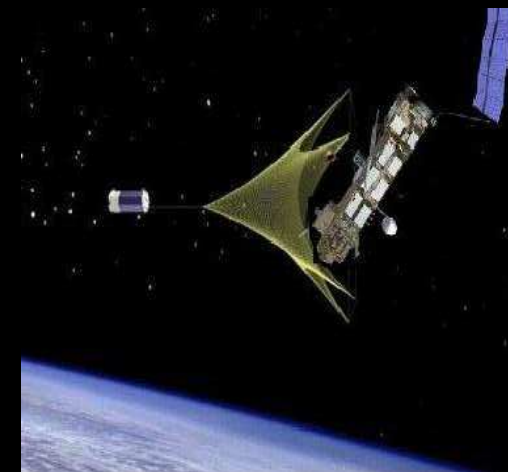
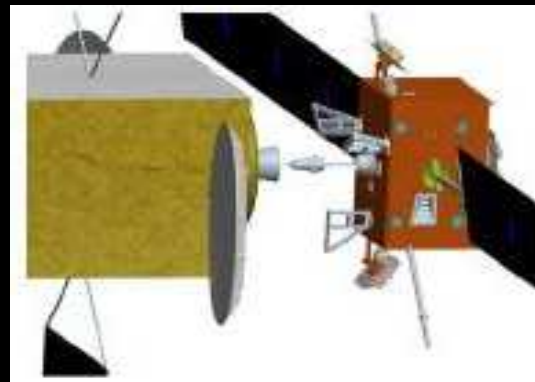
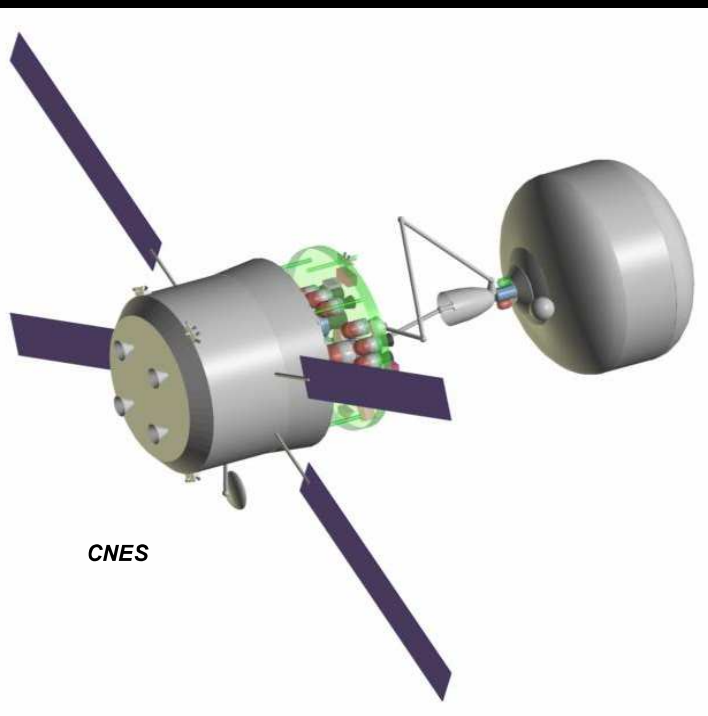
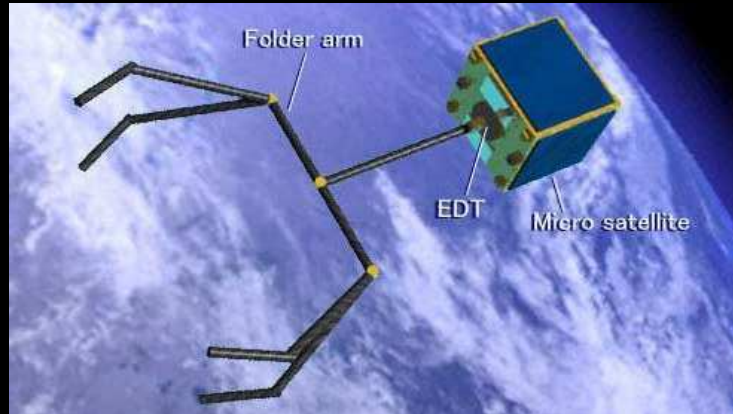
Collision of Iridium-33 with Cosmos-2251

Fragments ≥ 10 cm



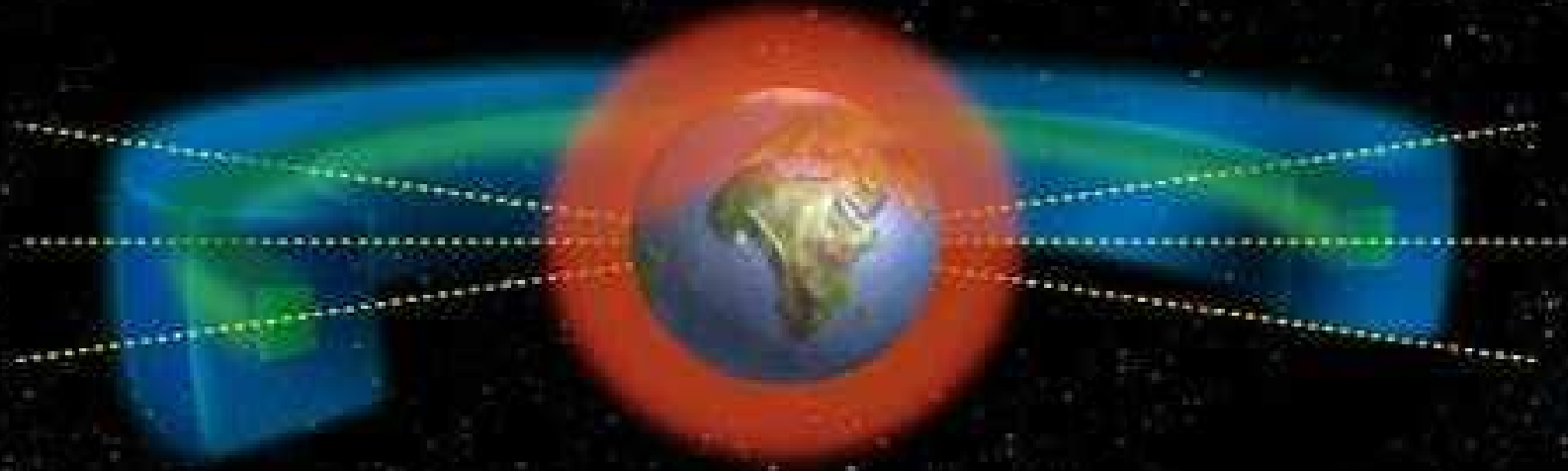
UNIVERSITY OF
Southampton
School of Engineering Sciences
www.southampton.ac.uk/ses

10 février 2009



Zones protégées :

- . Orbites basses ($< 2000 \text{ km}, \forall i$)
- . Orbite géostationnaire ($35800 \pm 200 \text{ km}, \pm 15^\circ$)



L'espace est-il à vendre ?





LUNAR DEED

From MoonEstates.com and the Lunar Ambassador to the United Kingdom, the United Kingdom's only authorised reseller of land on the Lighted Lunar Surface, this document represents the transfer of ownership of 1 (one) acre on the Lighted Lunar Surface.

This property has been lawfully purchased from Dennis M. Hope, The Head Cheese, who by nature of the Declaration of Ownership filed with the United Nations on the 22nd November 1980, was the recognised owner of said property.

This deed is for the Lunar property listed below:

Area E7, Quadrant Hotel

Lot number 369 / 1559

This property is located 17 squares south and 17 squares east of the extreme Northwest corner of the recognised Lunar chart.

This deed is recorded in the Lunar Embassy located in Gardnerville, Nevada, United States of America, in the name of

Jacques Arnould

from hereinafter known as owner of the abovementioned property.

This deed is transferable, tradeable or assignable upon the decision of the owner at his or her discretion.

This document conforms to all of the Lunar Real Estate Regulations set forth by Dennis M. Hope and shall be considered in proper order when his authorised Ambassador to the United Kingdom's signature and seal are affixed to this document.

Francis P. Williams

1 December 2012

This sale approved by Francis P. Williams,
Lunar Ambassador to the United Kingdom

DATE

Transfer of Ownership

TRANSFEEE NAME

DATE

TRANSFEEE NAME

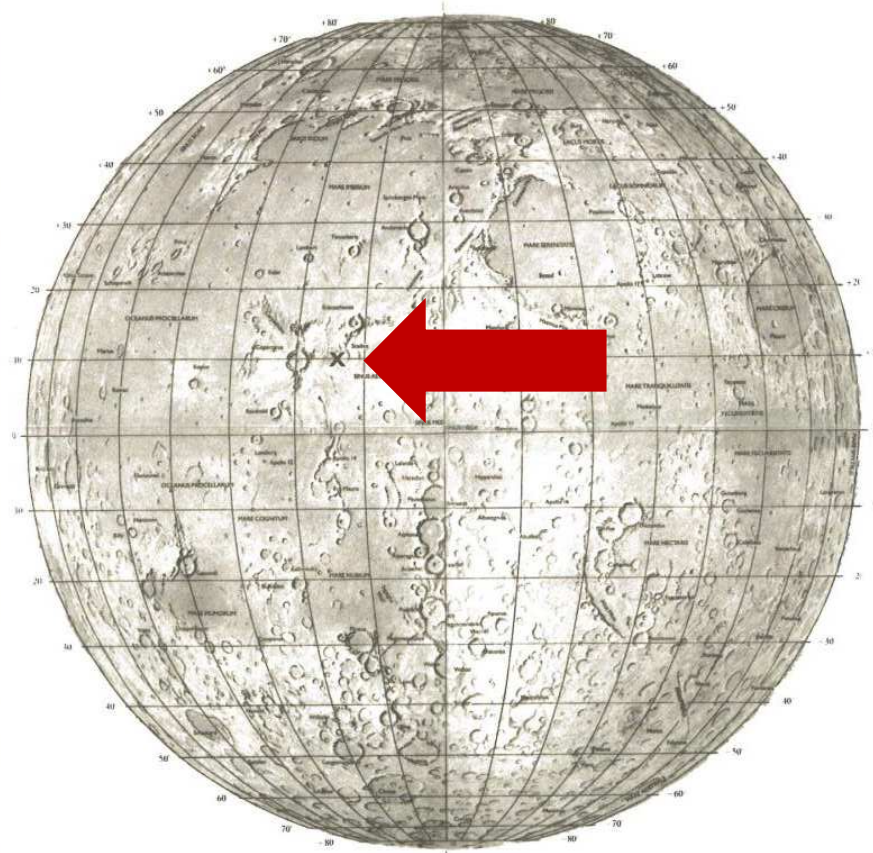
DATE

TRANSFEEE NAME

DATE



LUNAR MAP



Area E-7 / Quadrant Hotel. Lot number 369/ 1559

Approximate Latitude 10° N Longitude 14° W



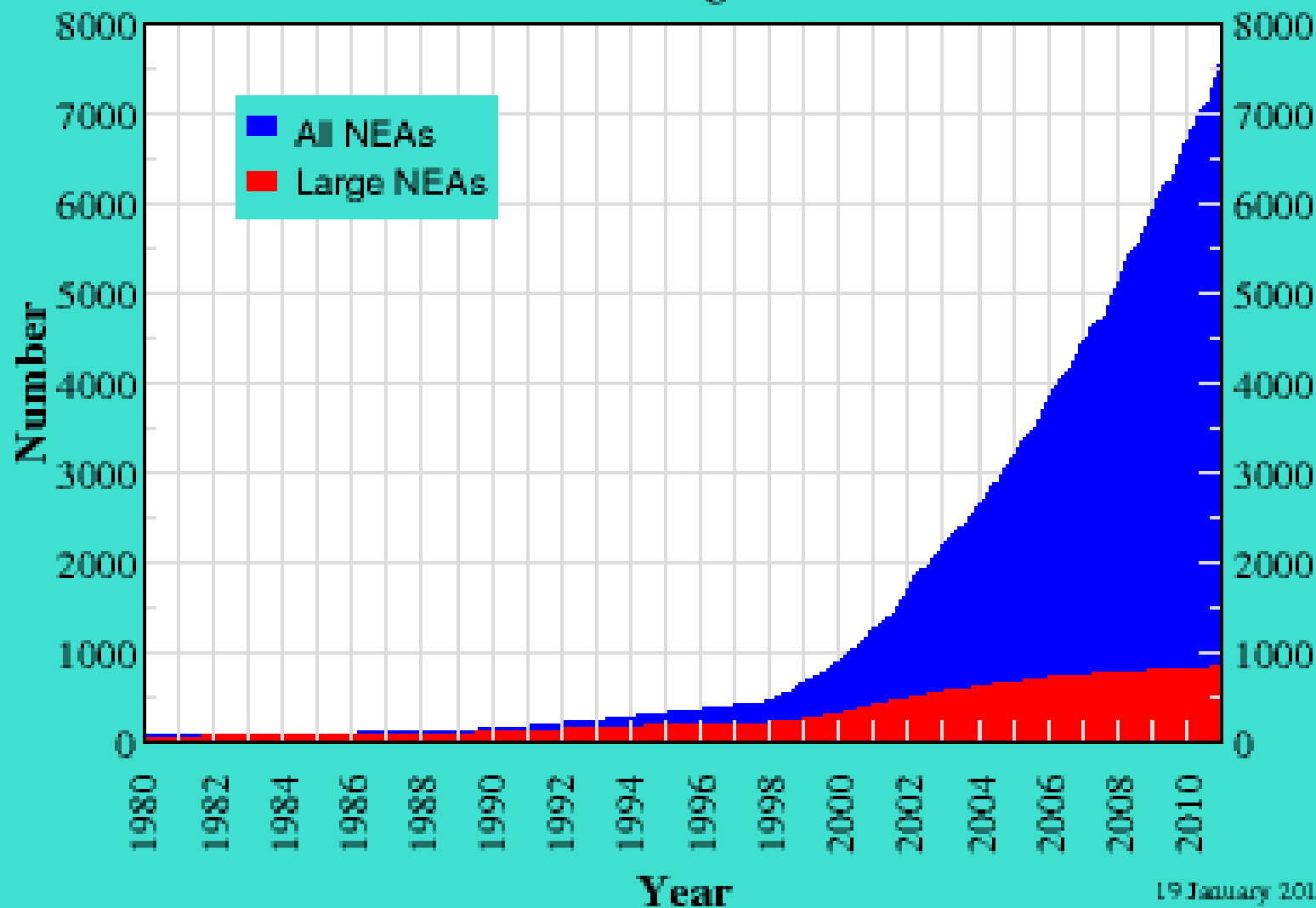


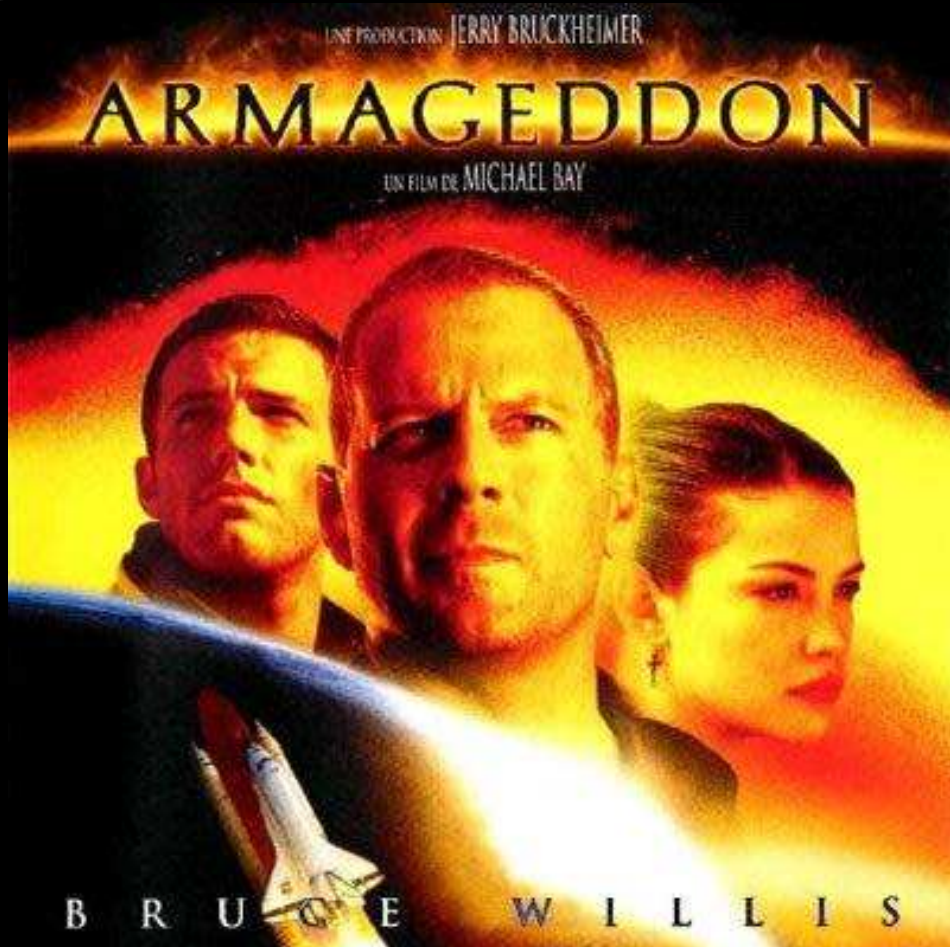
Et si le ciel nous tombait sur la tête ?

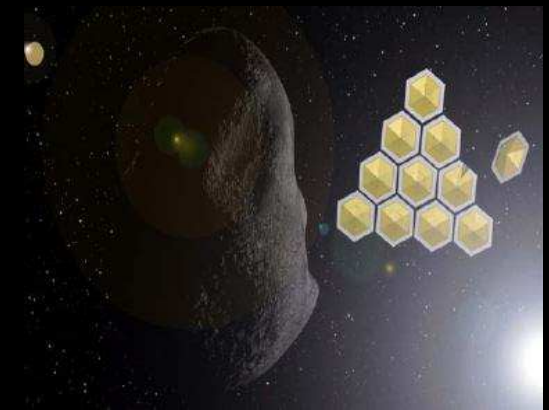
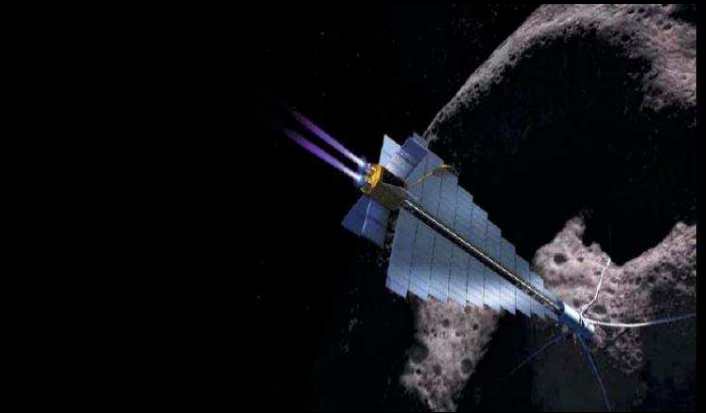


Tcheliabinsk, 15 février 2013,
15 à 17 m de diamètre,
7 000 à 10 000 tonnes

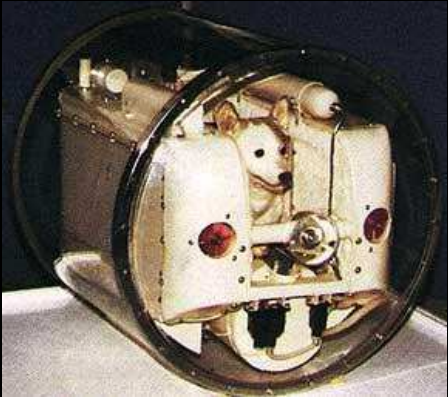
Known Near-Earth Asteroids 1980-Jan through 2010-Dec







L'avenir de la vie dans l'espace ?



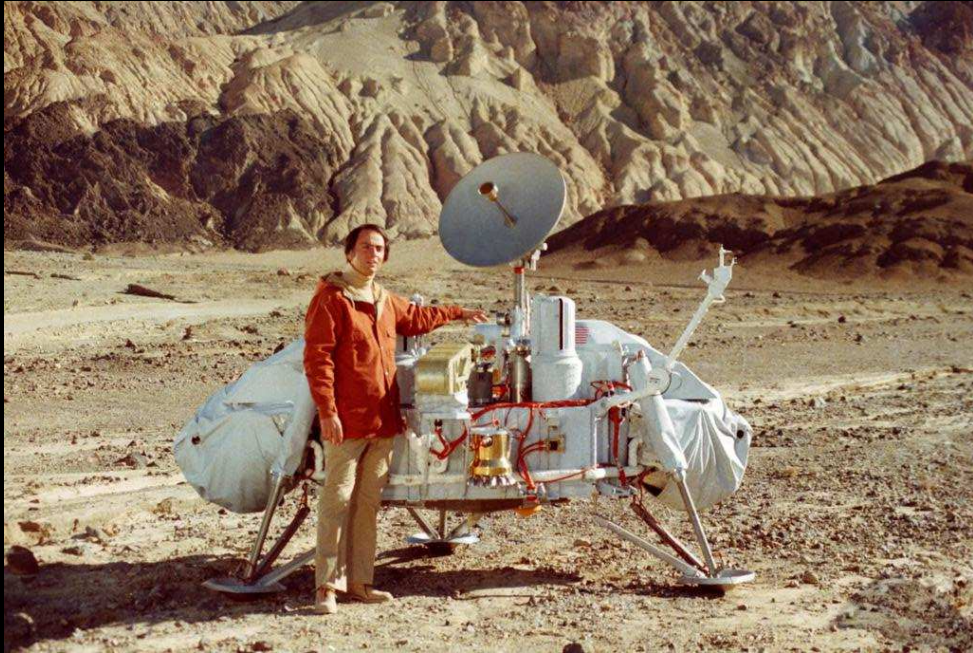
Laïka, 3 novembre 1957



Hector, 22 février 1961

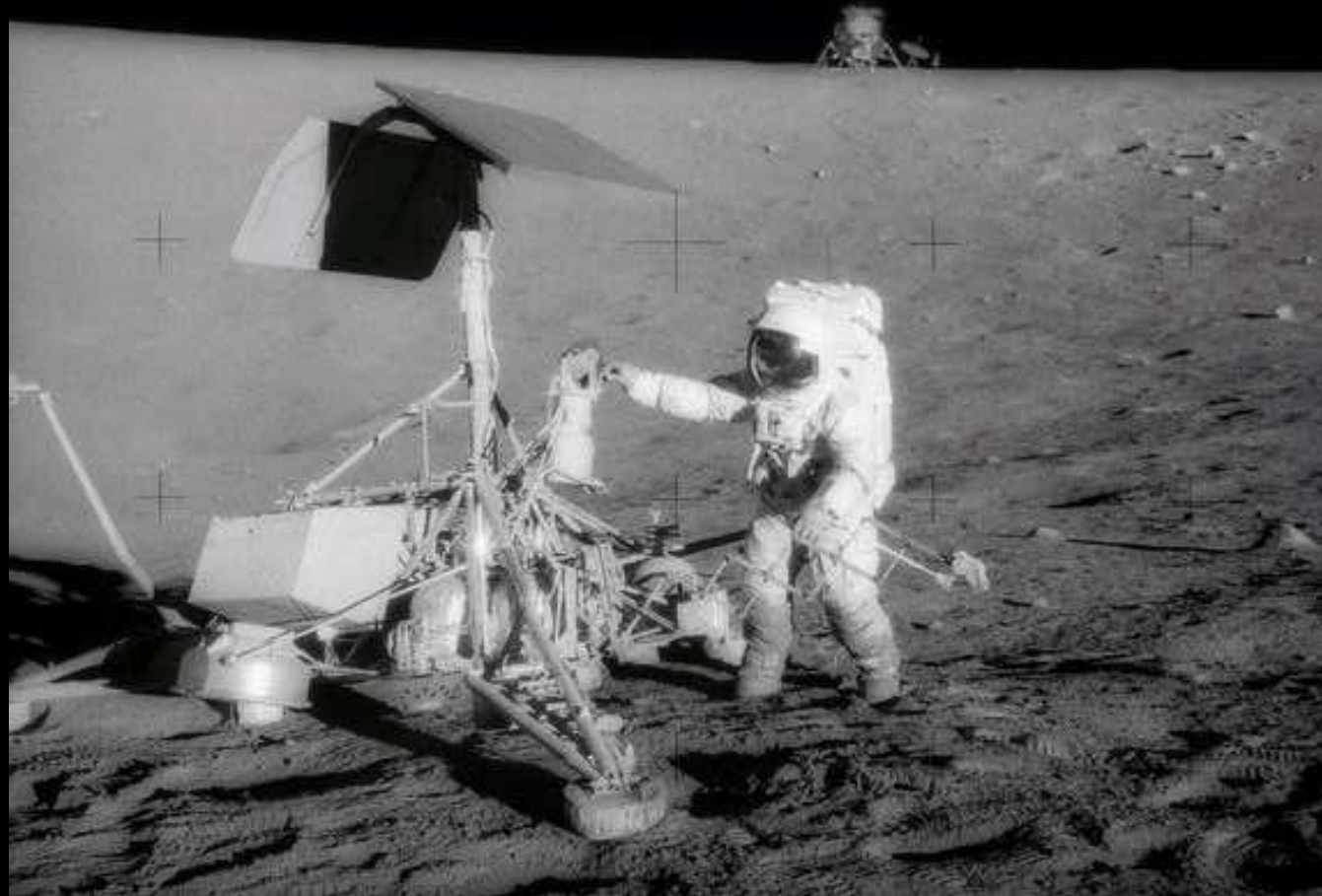


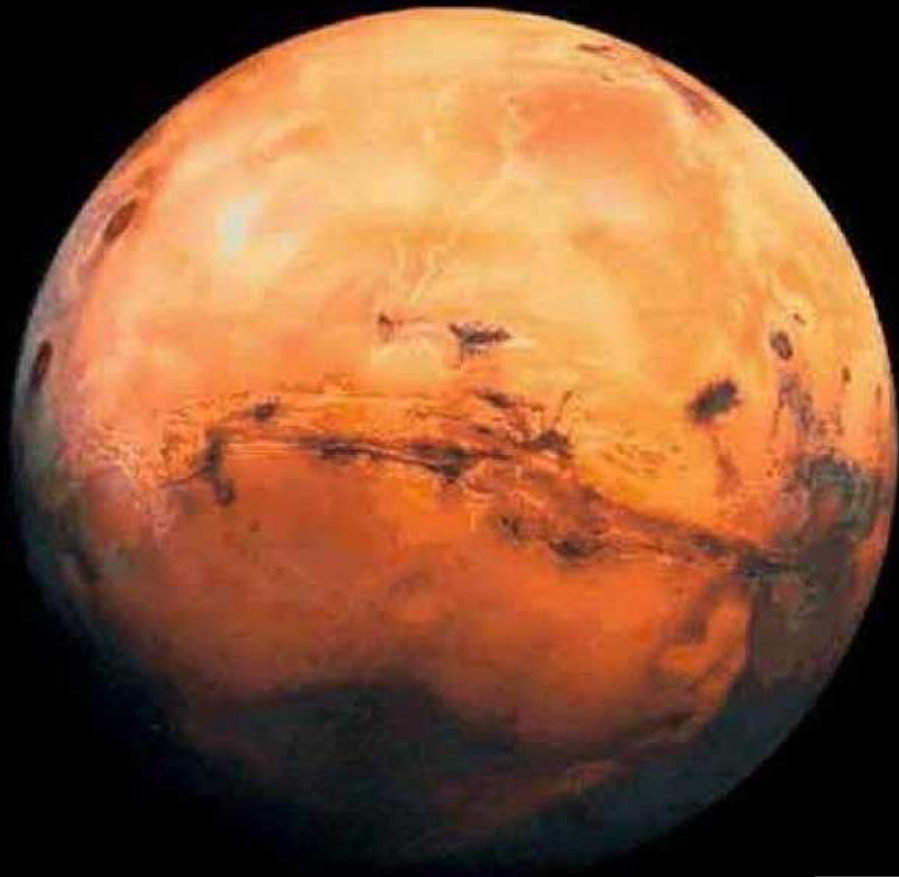
Jean-Loup Chrétien, juin 1982



Protection planétaire

Surveyor 3 – Apollo 12 :
163 mètres, 31 mois



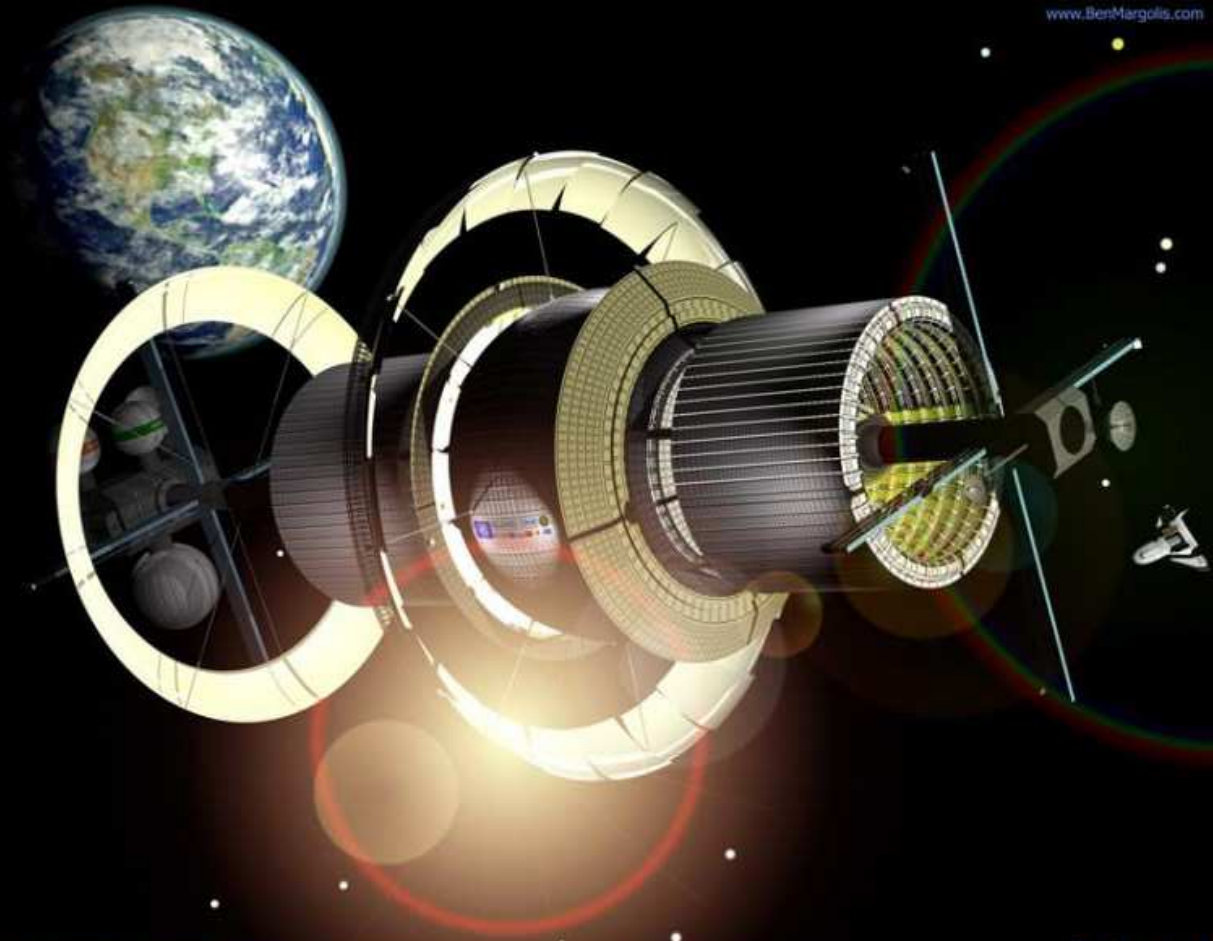


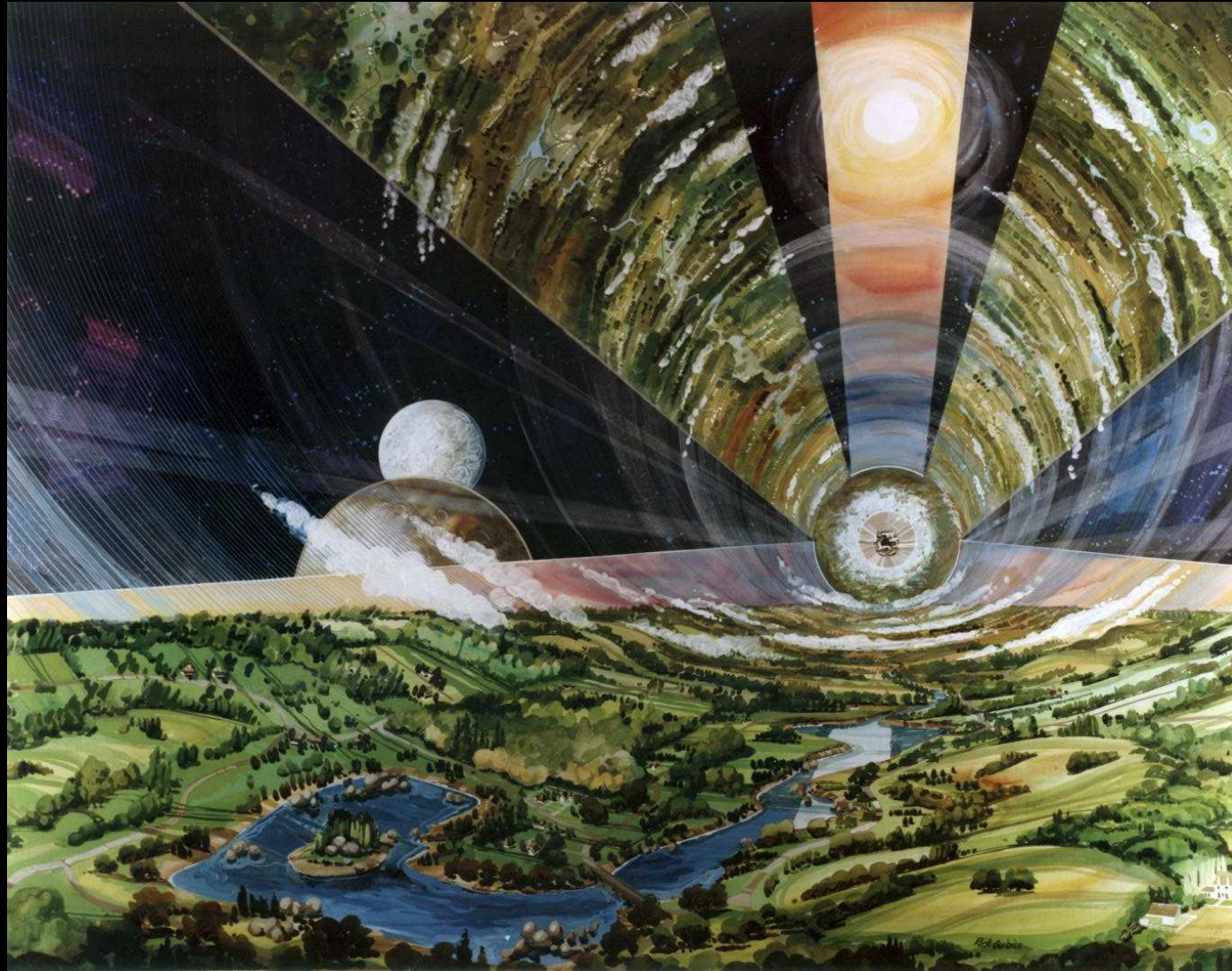
?













Kepler-452b, une autre/nouvelle terre ?



MATTHEW
McCONAUGHEY

ANNE
HATHAWAY

JESSICA
CHASTAIN

MICHAEL
AND CAINE

A FILM BY CHRISTOPHER NOLAN

INTERSTELLAR

THE END OF EARTH WILL NOT BE THE END OF US.

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Concentrer le monde aux dimensions de l'homme,
dilater l'homme aux dimensions du monde,
la tâche humaniste de l'espace...

Merci

