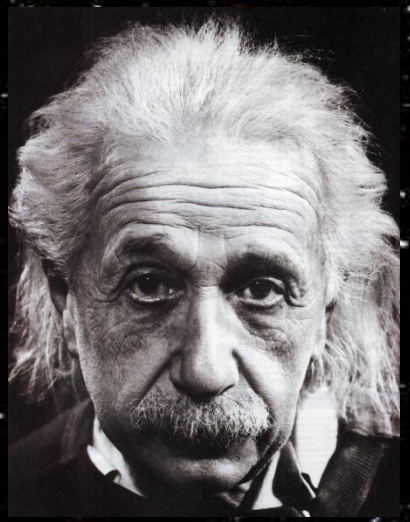
Introducere in astrofizica

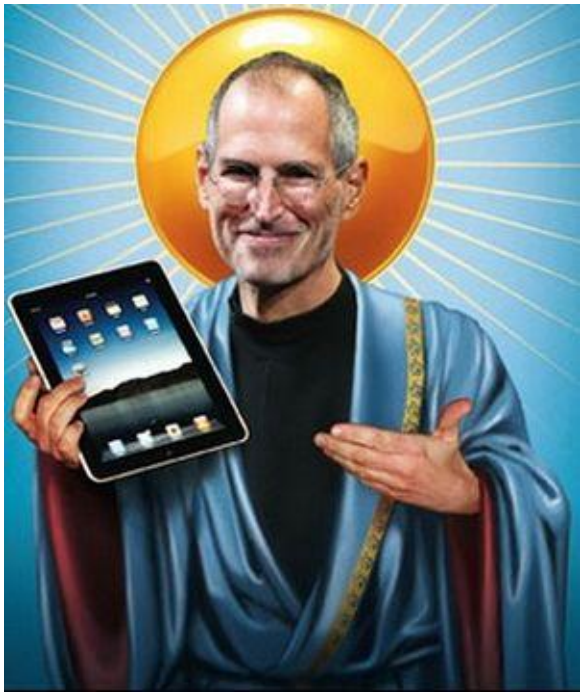


Denis Stanca

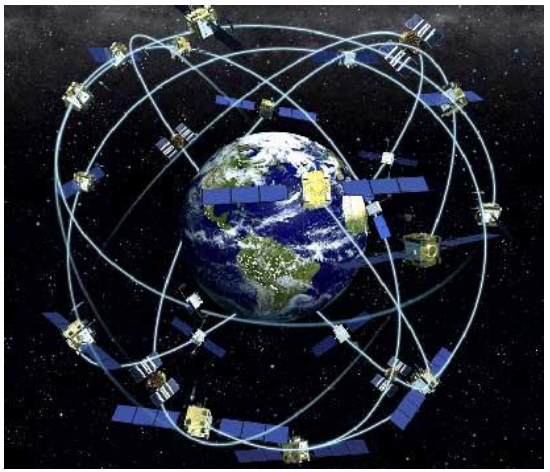
Jocul & Science Ficition & Astrofizica











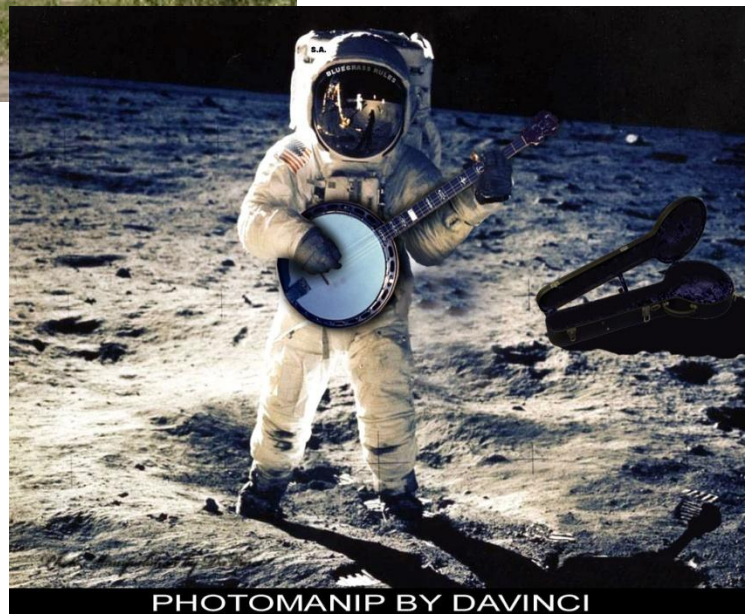
... si mai departe



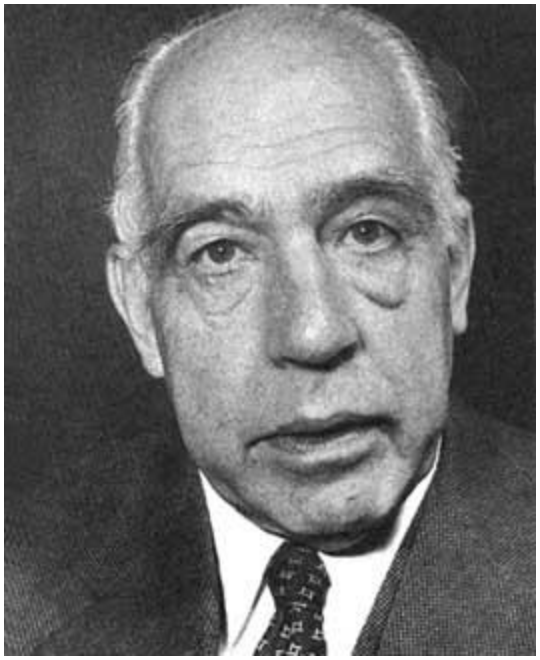




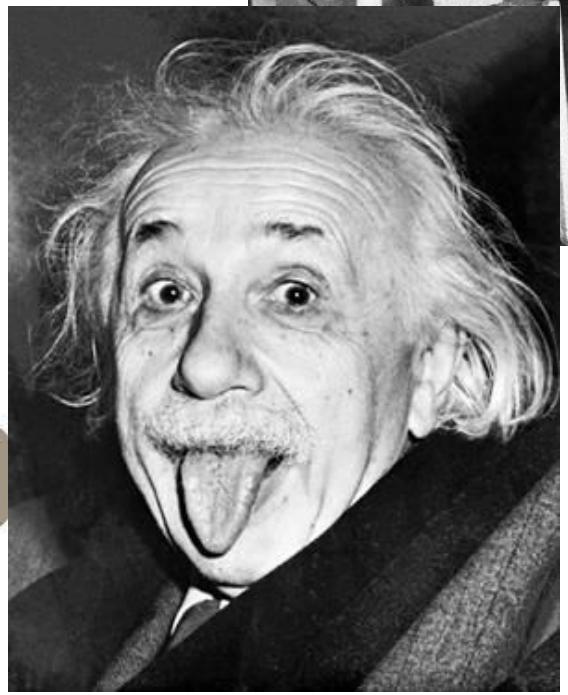




Cativa dintre ei





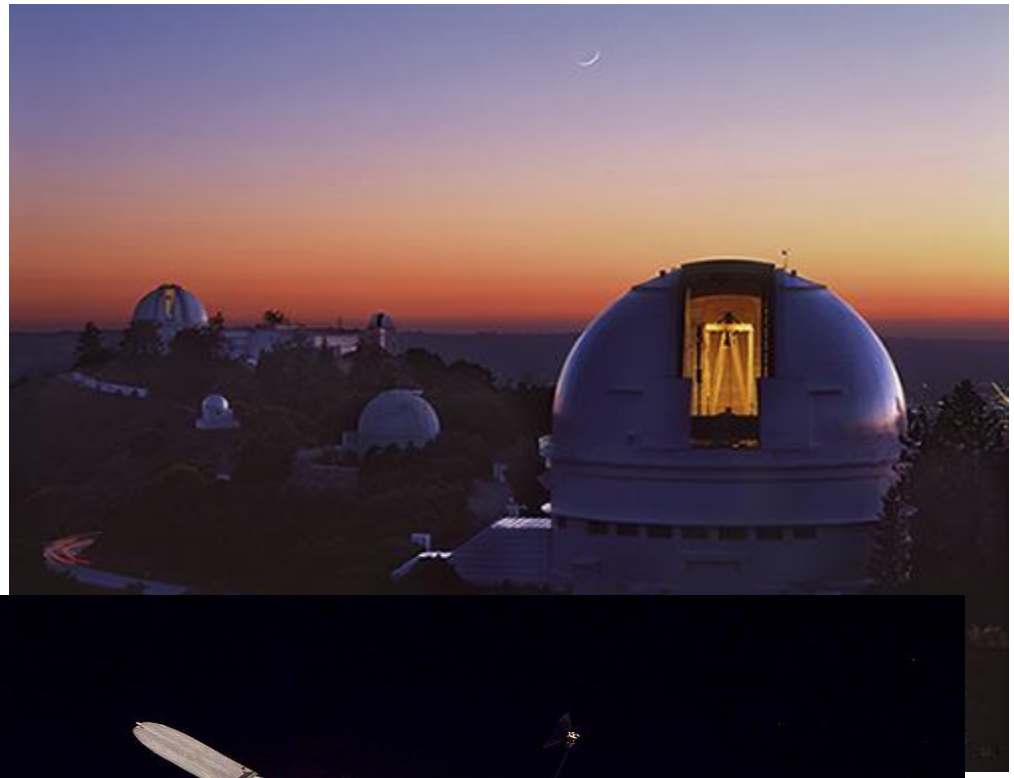






Privind cerul

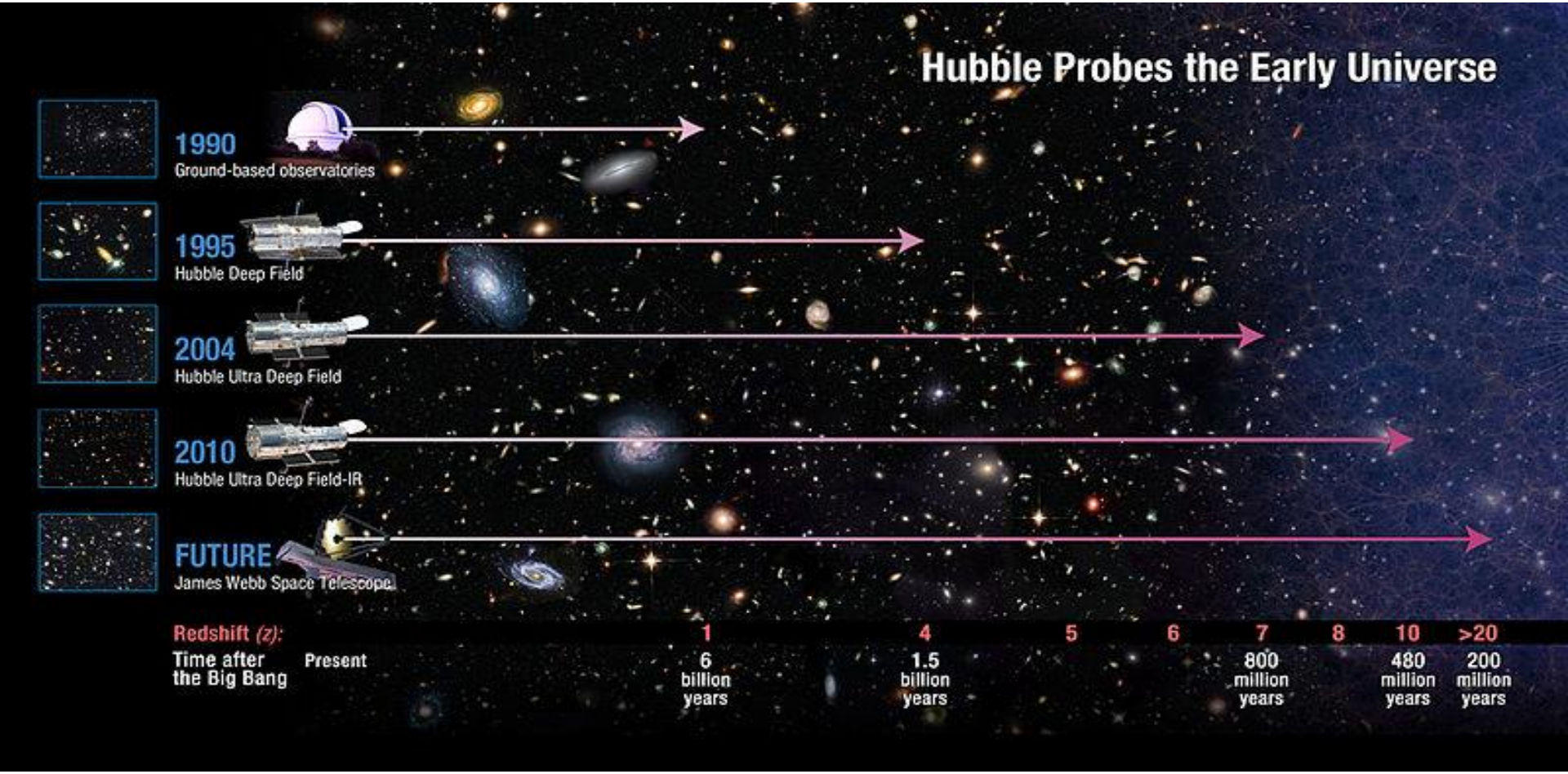




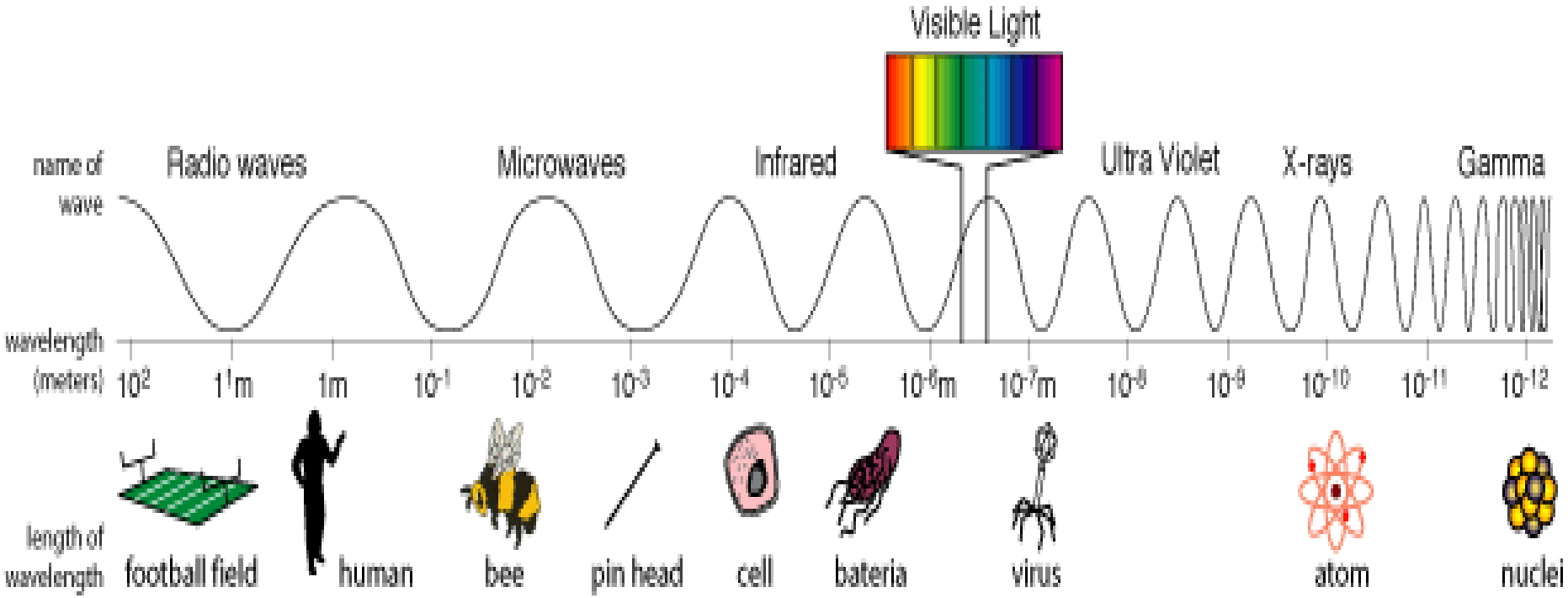




Telescopul – Masina a timpului



Spectrul electromagnetic

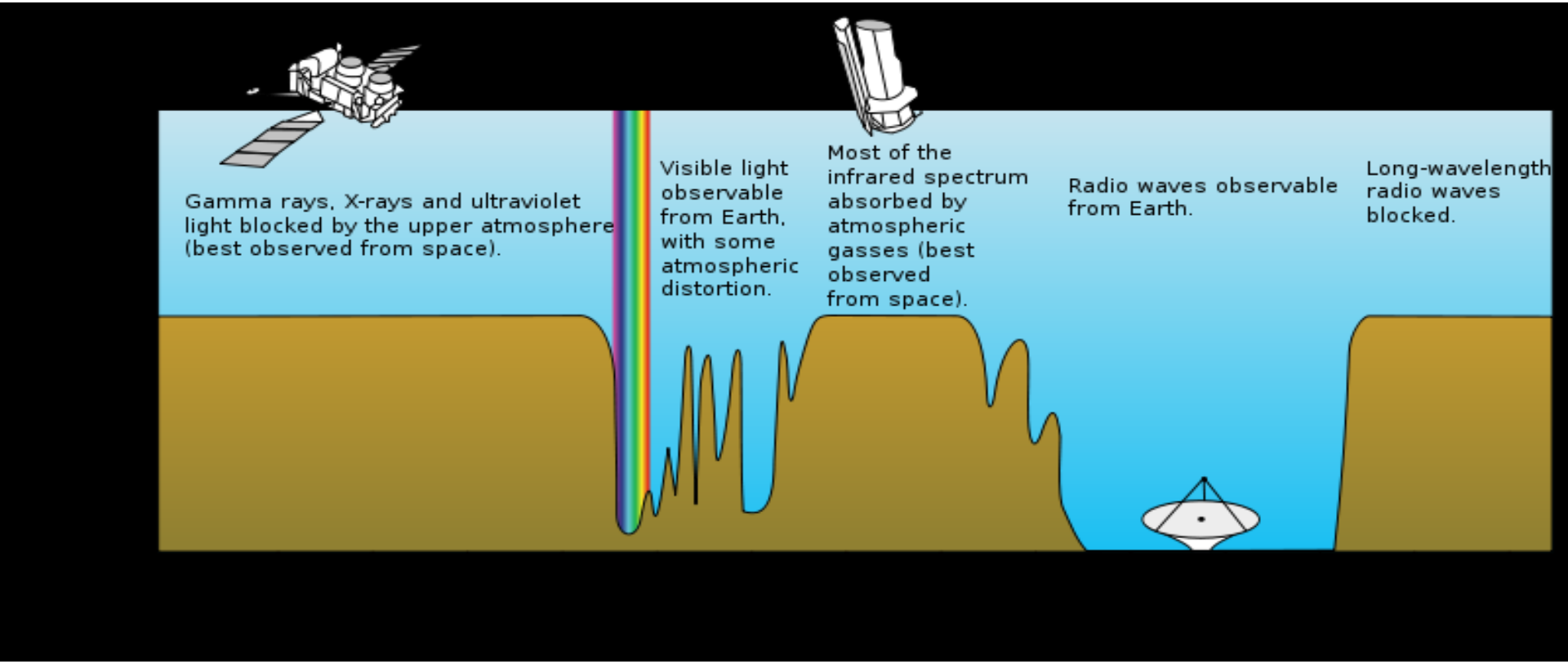


Cerul vazut la diferite lungimi de unda

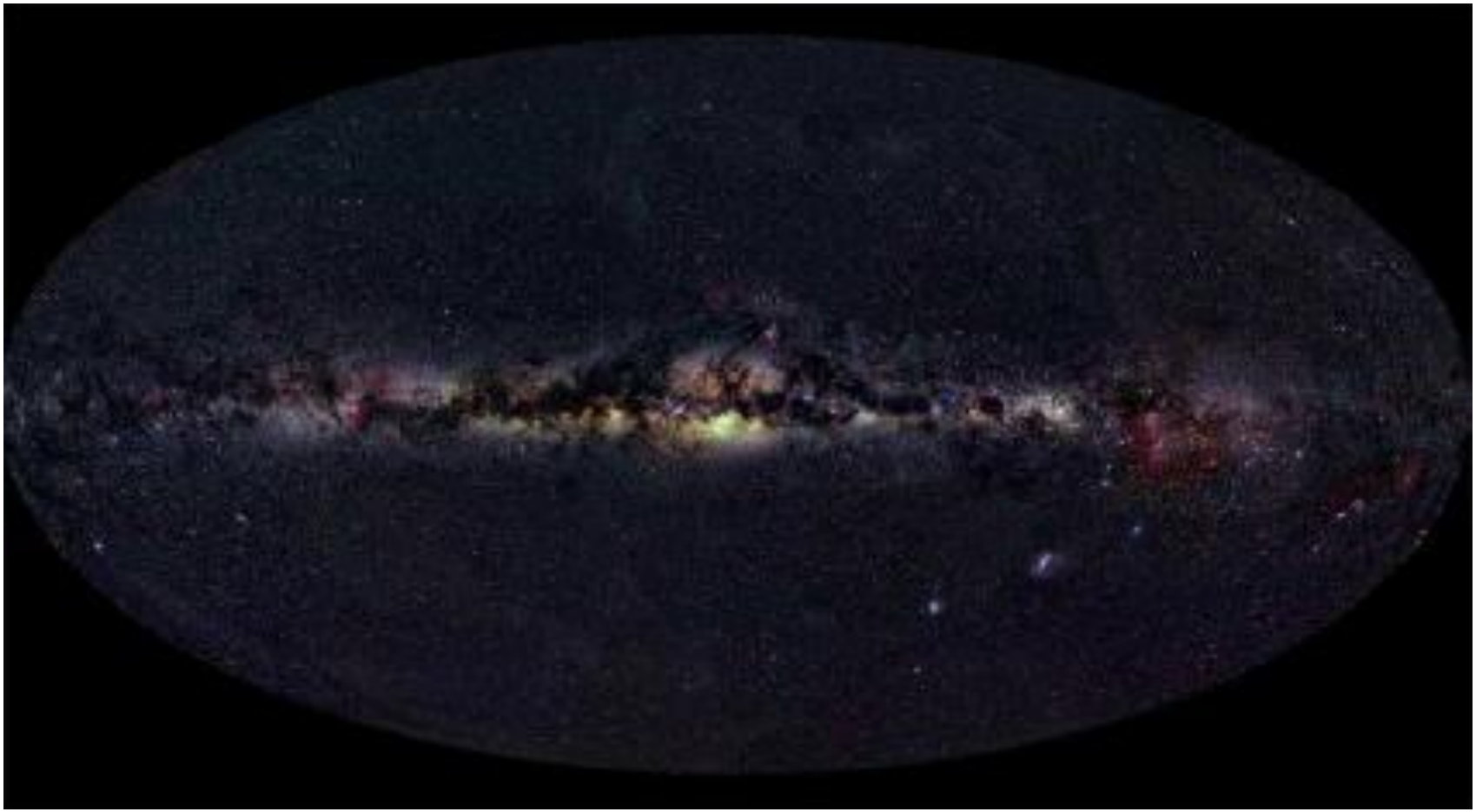
- **Optic**
- **Infrarosu**
- **Microunde**
- **Radio**
- **Ultraviolet**
- **Raze-X**
- **Raze-γ**

Pana in 1945, astronomia insemna astronomie optica, corespunzant unei lungimi de unda intre **300-800 nm** si unei temperaturi de **3000-10.000 °K**

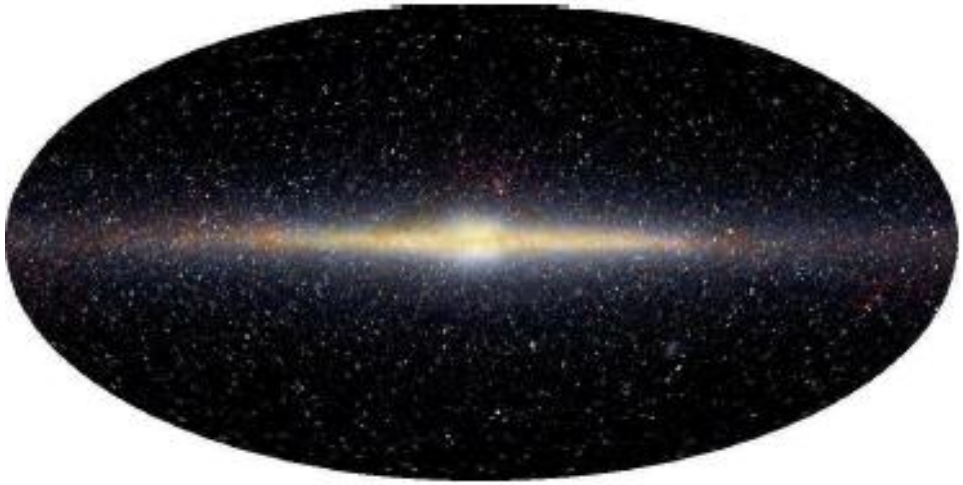
Transparenta atmosferei



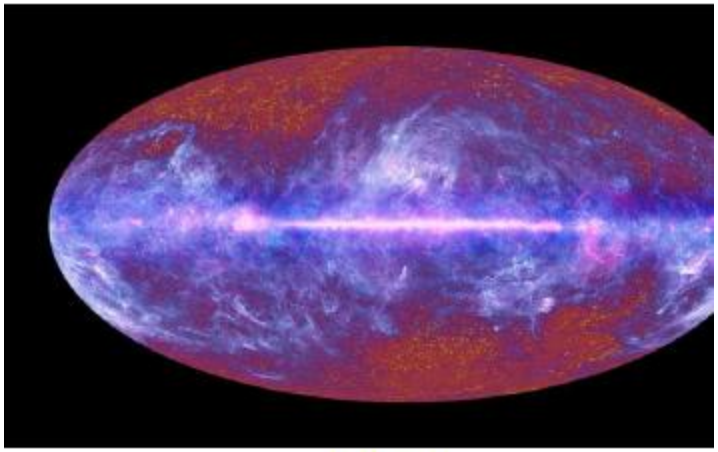
Cerul optic



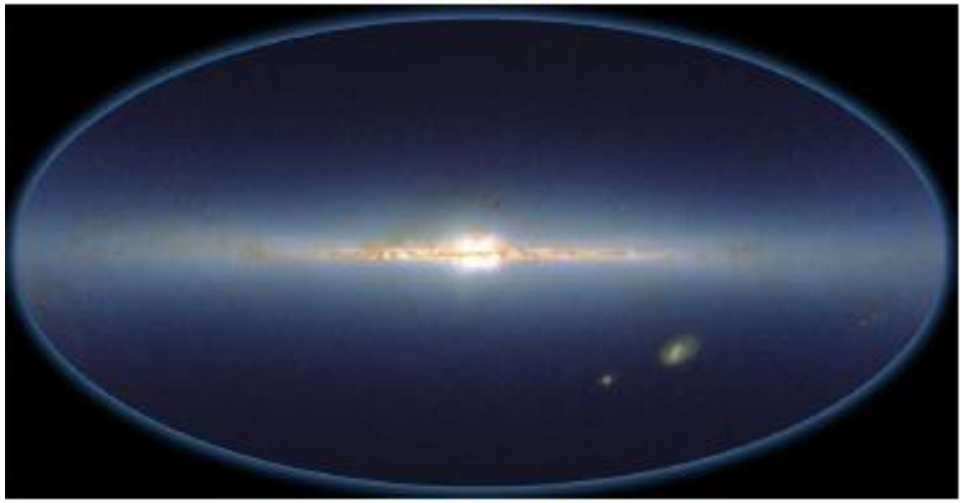
Cerul infrarosu



COBE

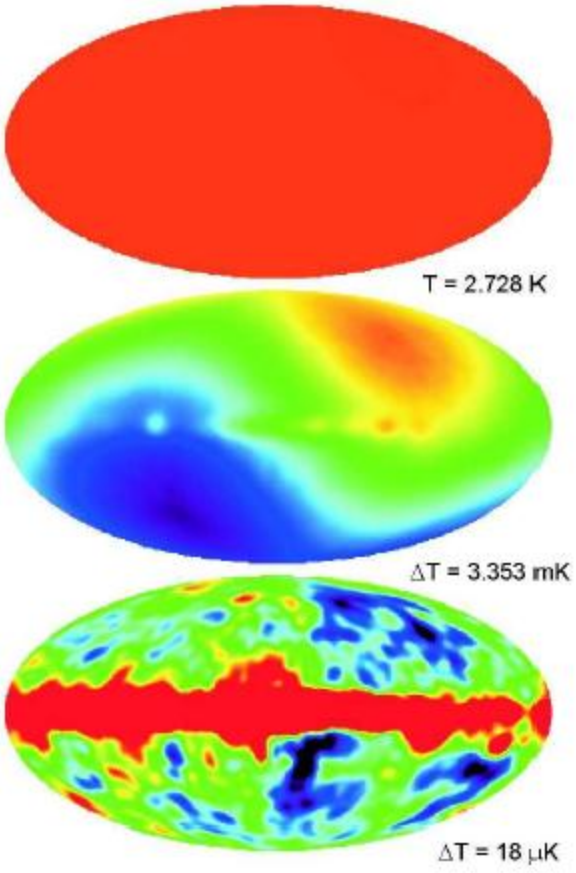


Planck



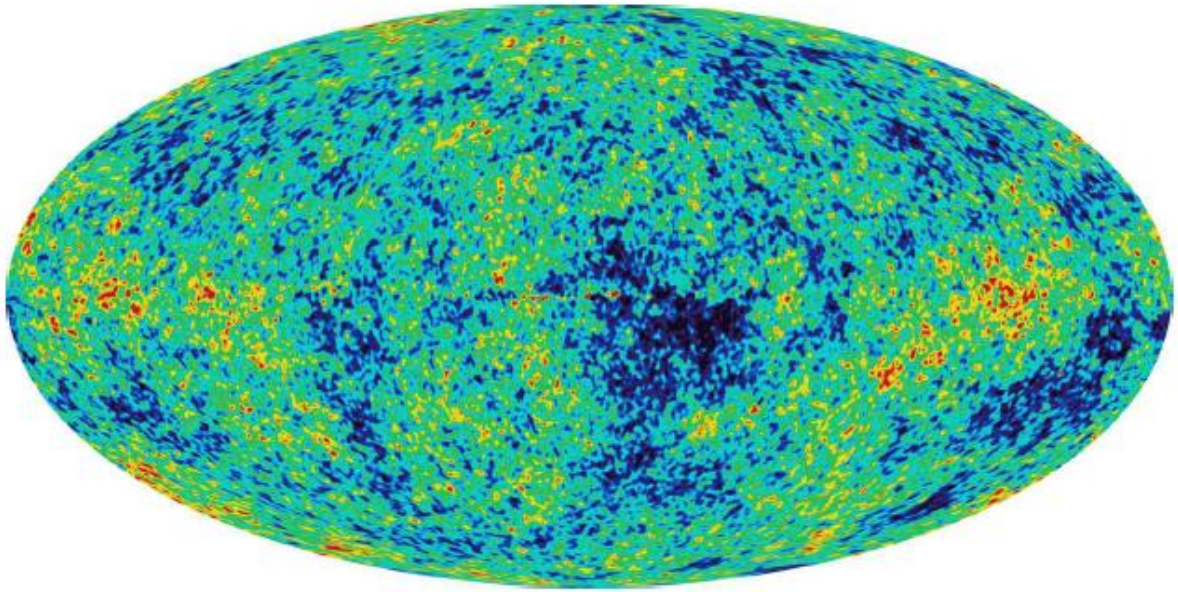
2MASS

The Cosmic Microwave Background



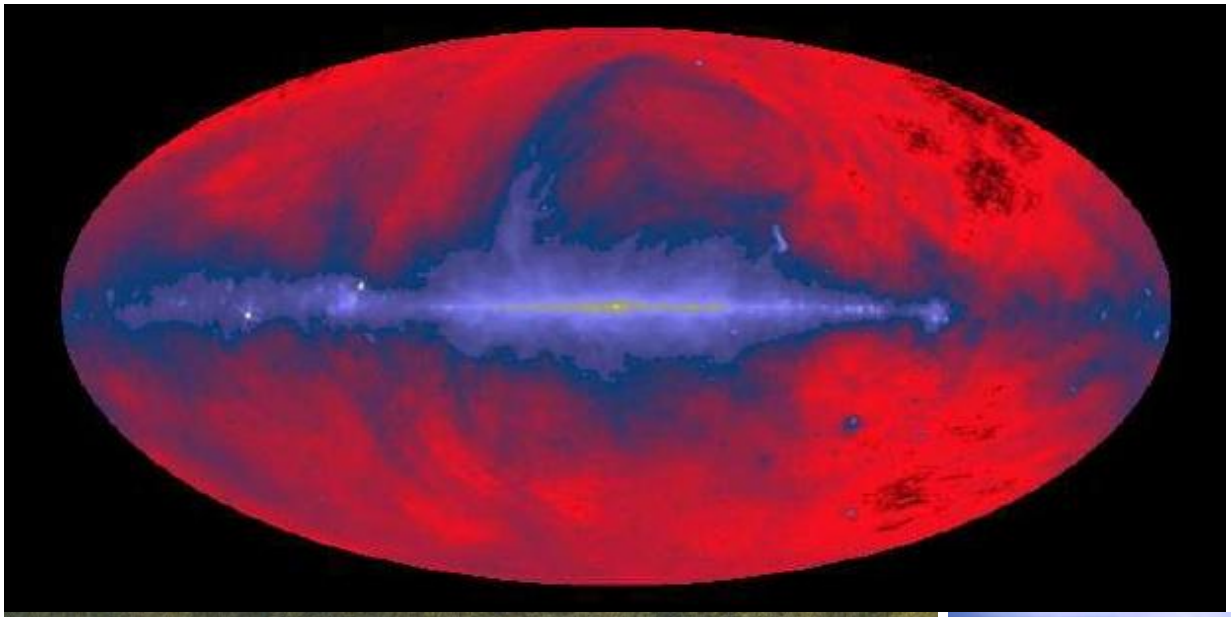
COBE

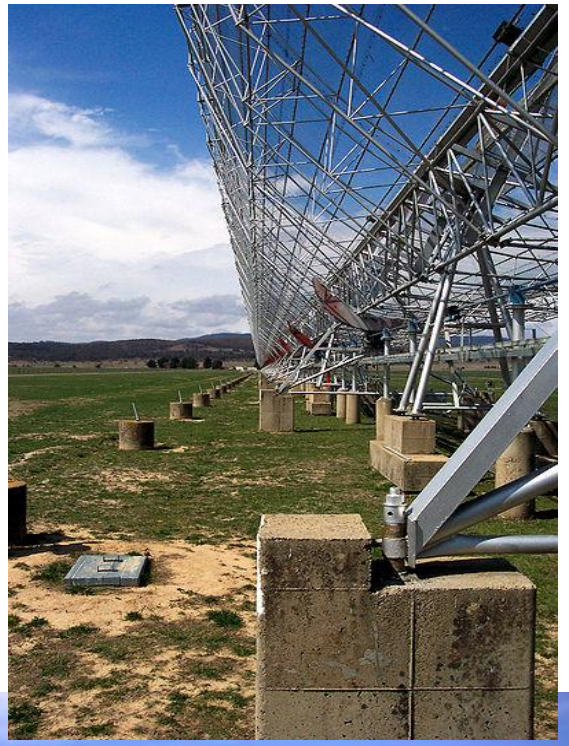
Harta cerului la o lungime de unda de **5,7 mm** observata cu satelitul **COBE**



Wilkinson Microwave anisotropy probe

Cerul radio

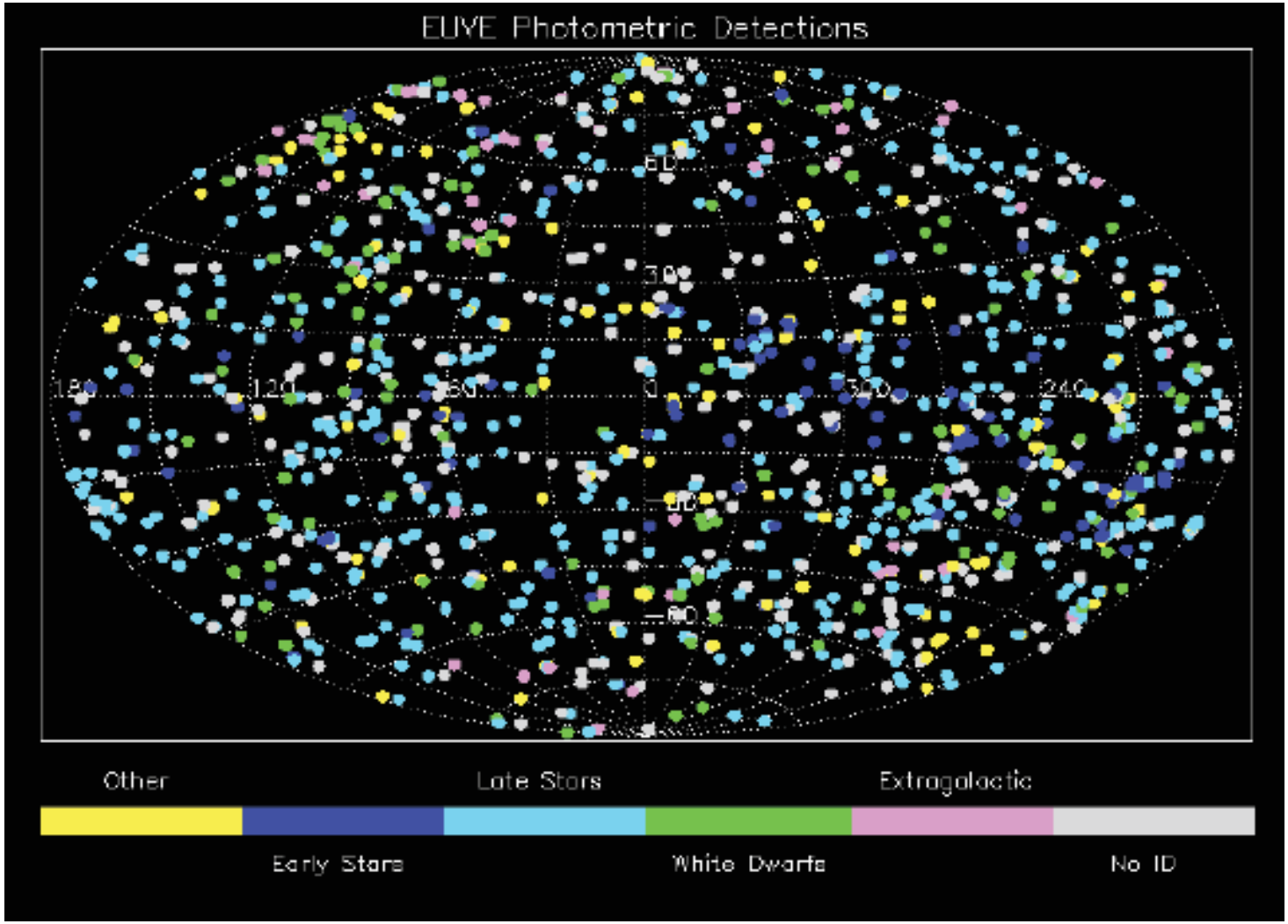






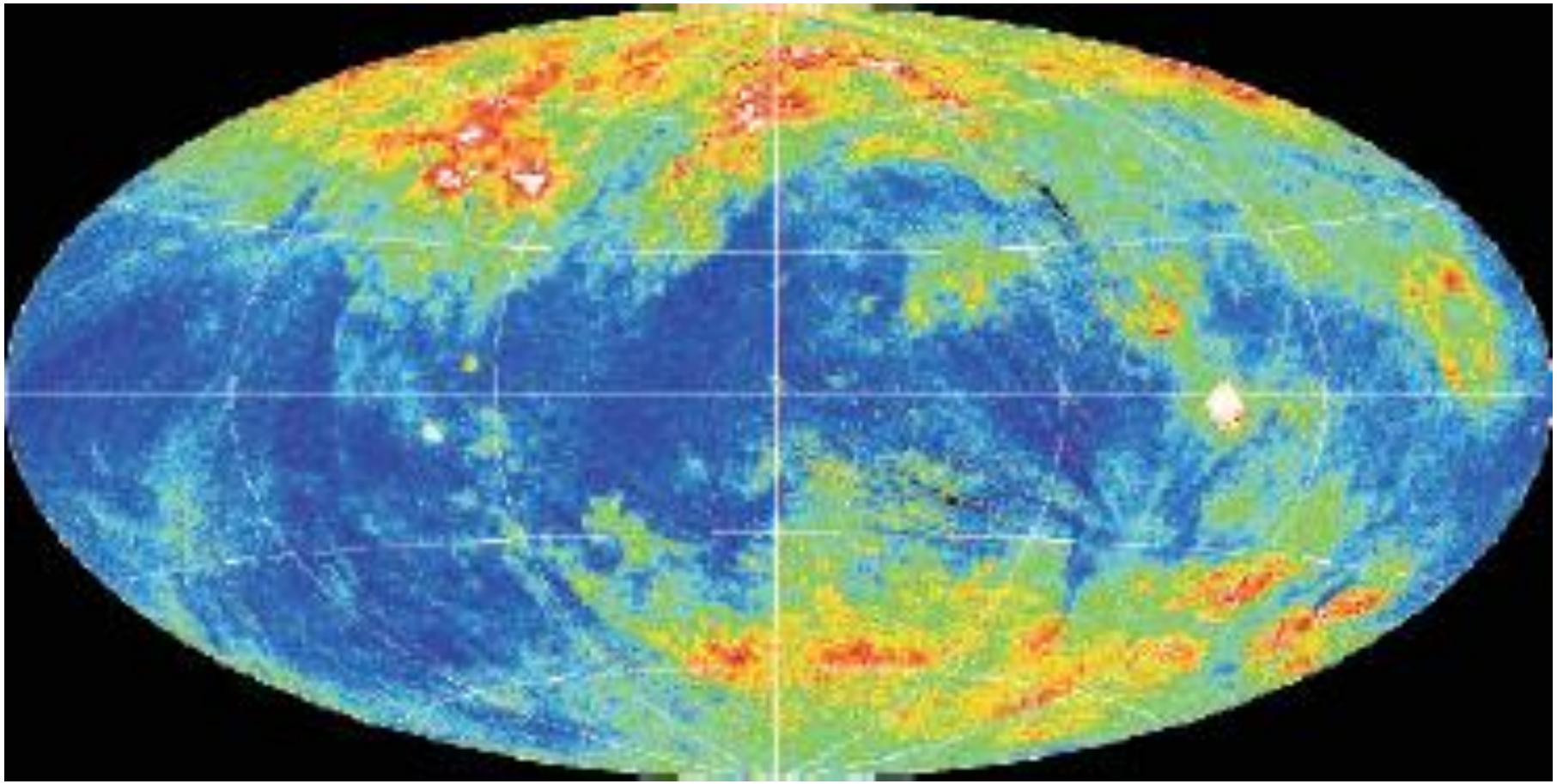


Cerul Ultraviolet

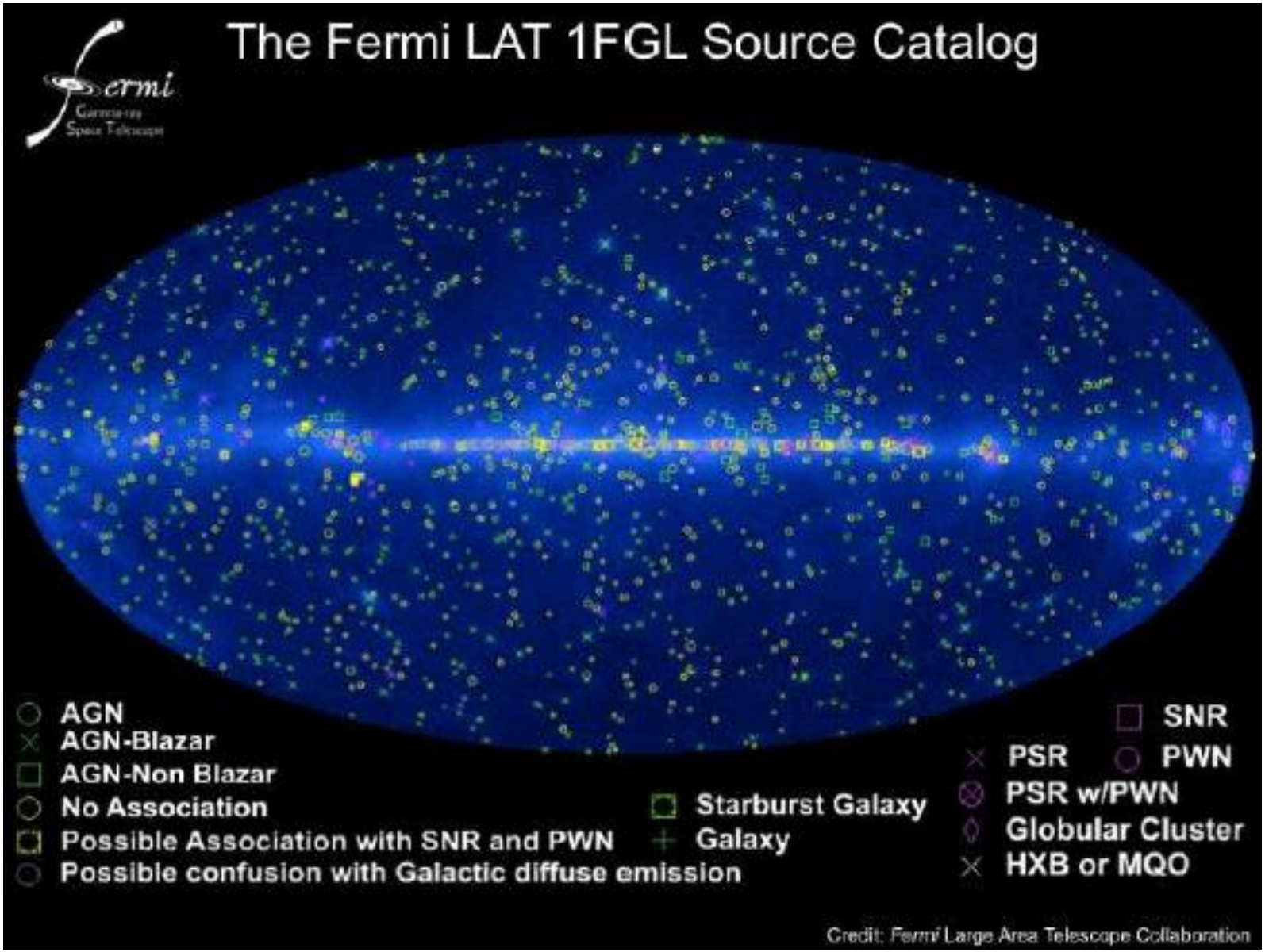


Extreme UltraViolet Explorer (EUVE)

Cerul in radiatie-X



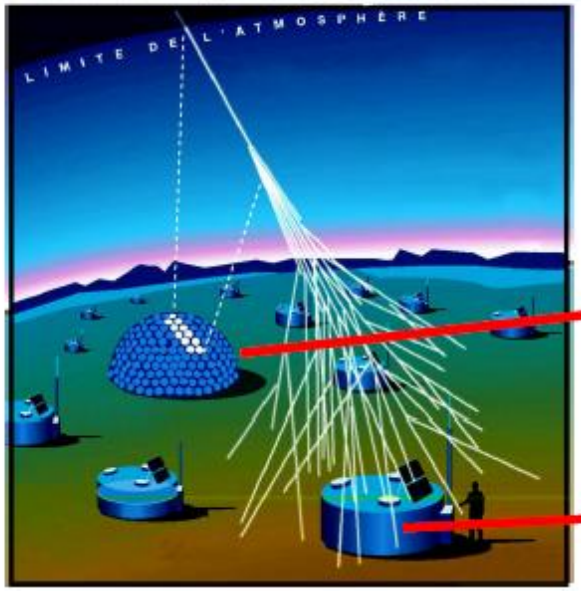
Cerul γ


The Fermi LAT 1FGL Source Catalog
Fermi
Gamma-ray Space Telescope
AGN
AGN-Blazar
AGN-Non Blazar
No Association
Possible Association with SNR and PWN
Possible confusion with Galactic diffuse emission
Starburst Galaxy
Galaxy
SNR
PWN
PSR
PSR w/PWN
Globular Cluster
HXB or MQO
Credit: Fermi Large Area Telescope Collaboration

Pierre Auger Observatory

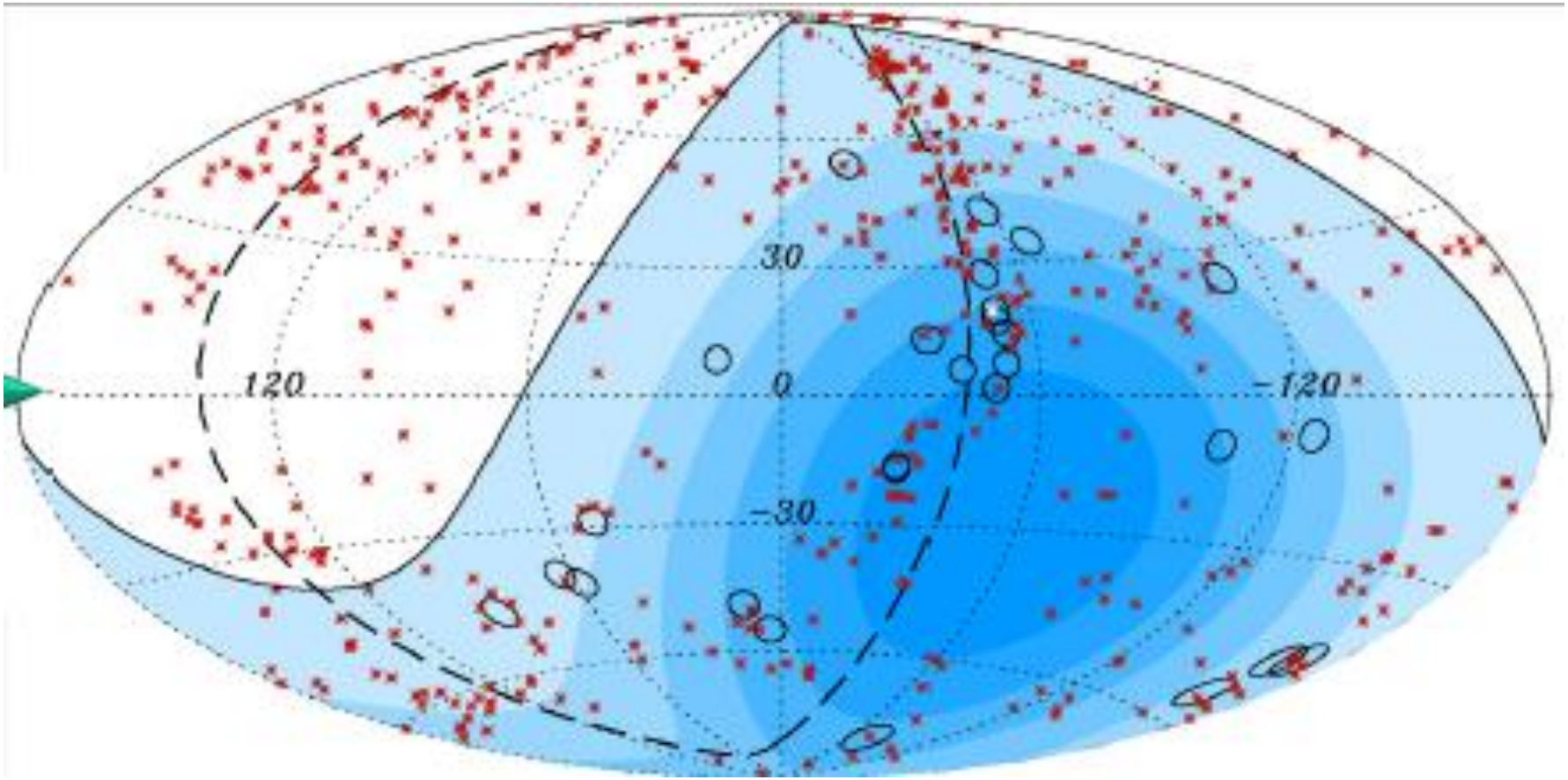




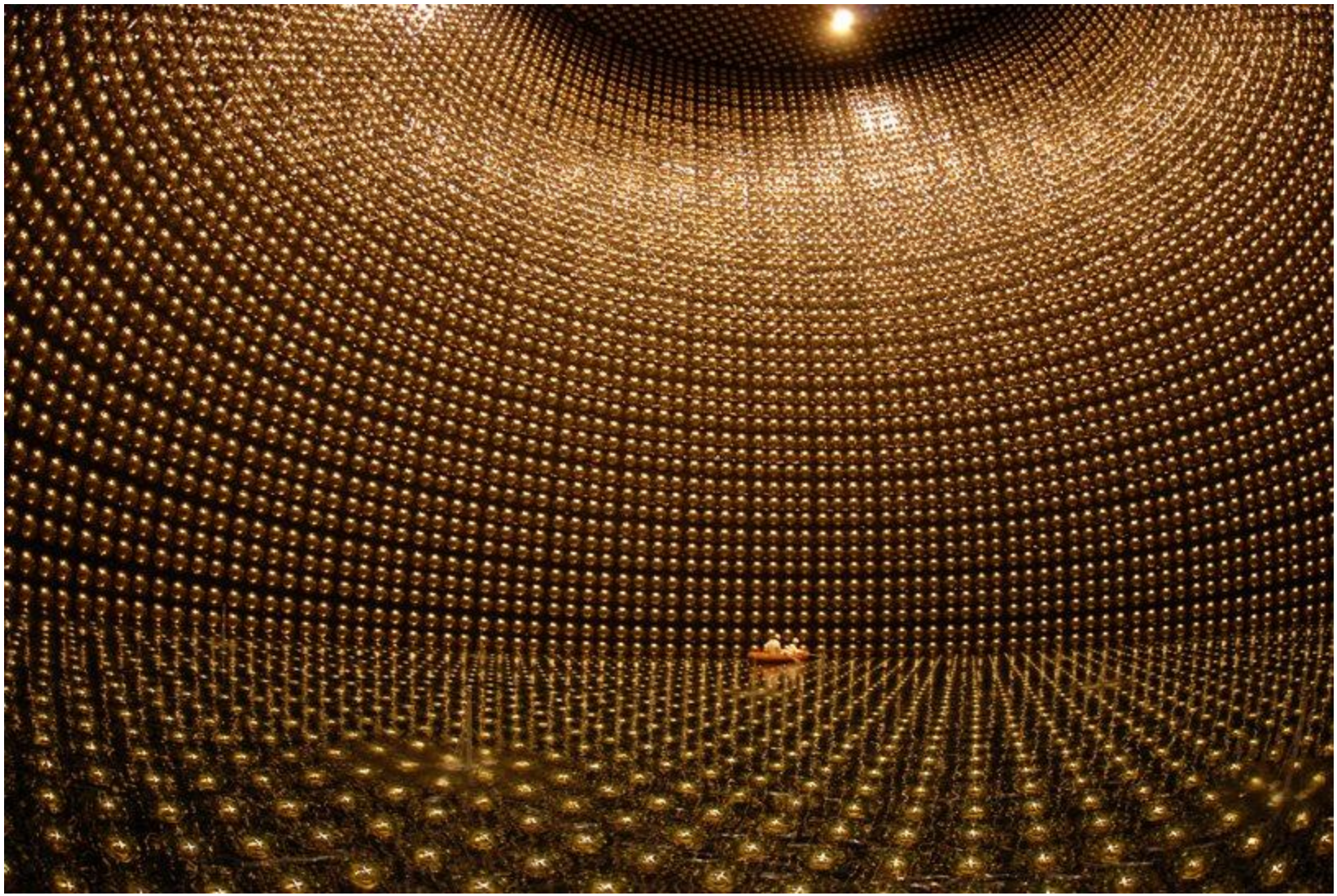




Sursele identificate ale radiatiei cosmice



Neutrino Astronomy



Va multumesc pentru atentie!!!