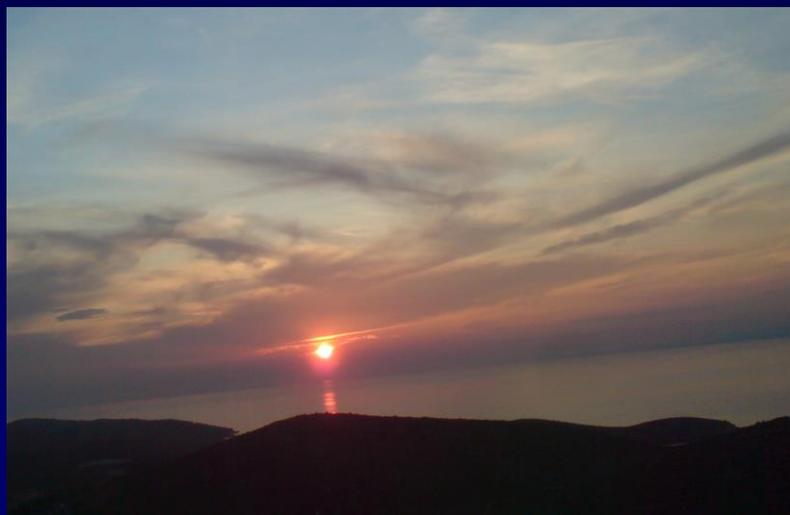
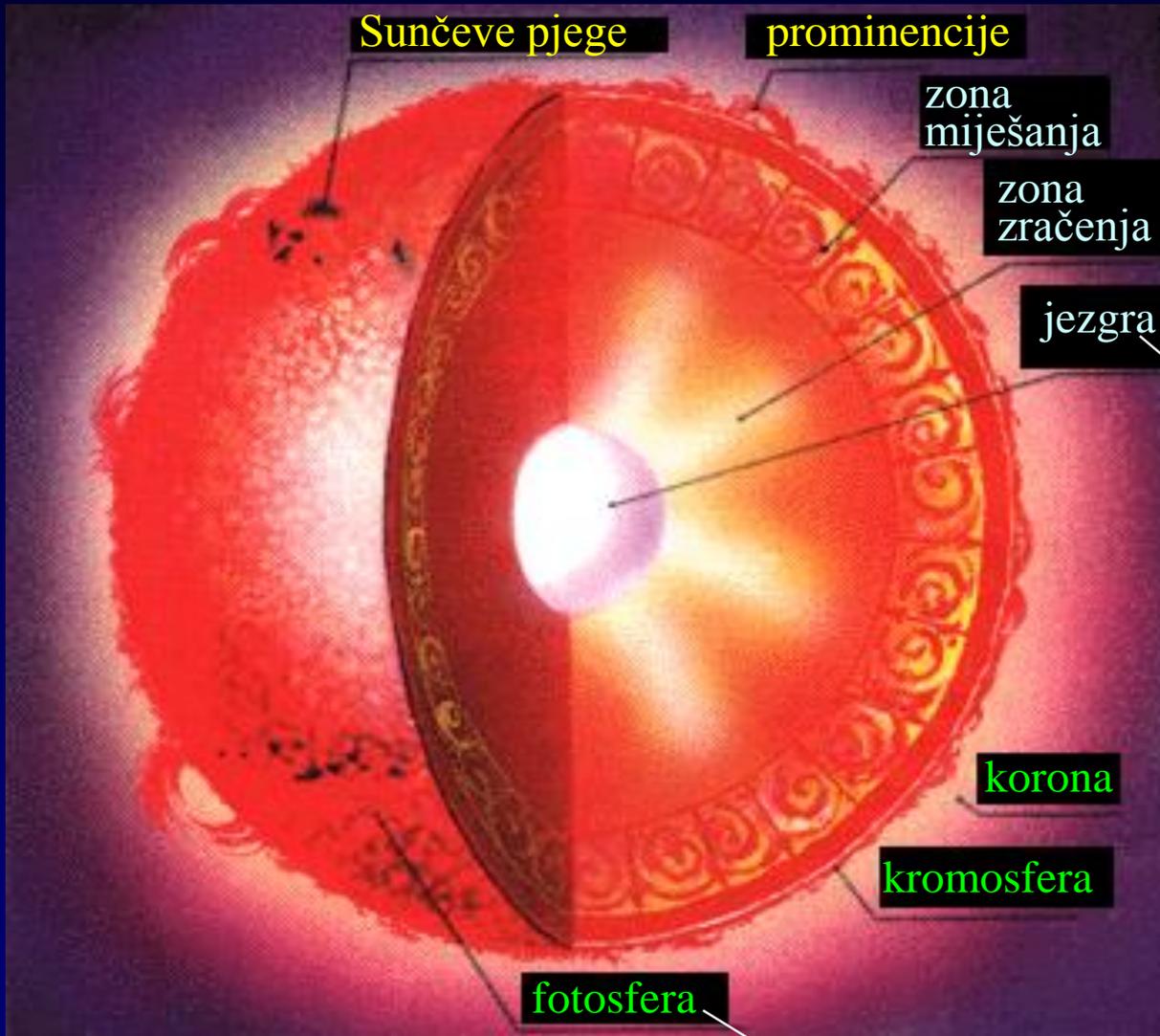


POGLED NA SUNCE SA SUNČANOG HVARA

Bojan Vršnak, Ops.Hvar, Geodetski fakultet u Zagrebu



Struktura Sunca



91% = vodik
9% = helij
ostalo = 0.1%

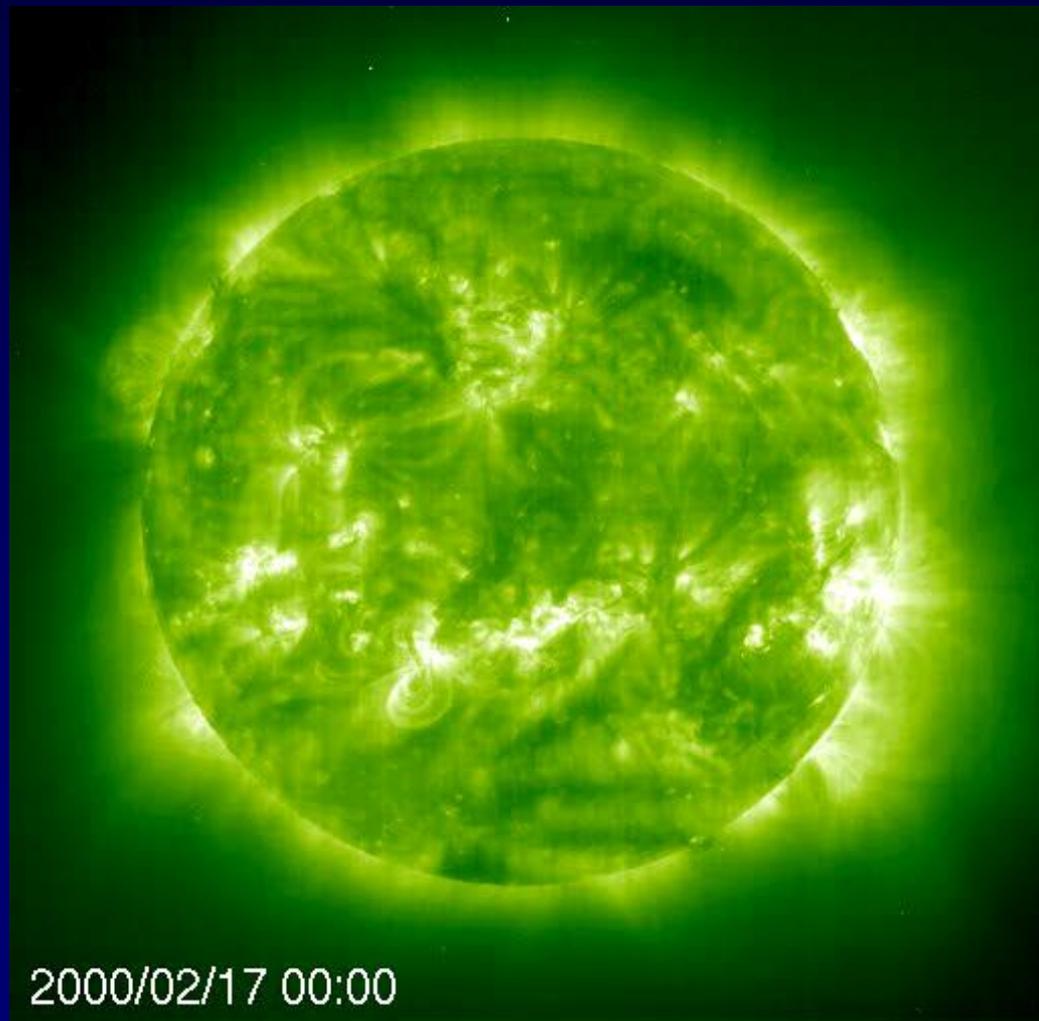
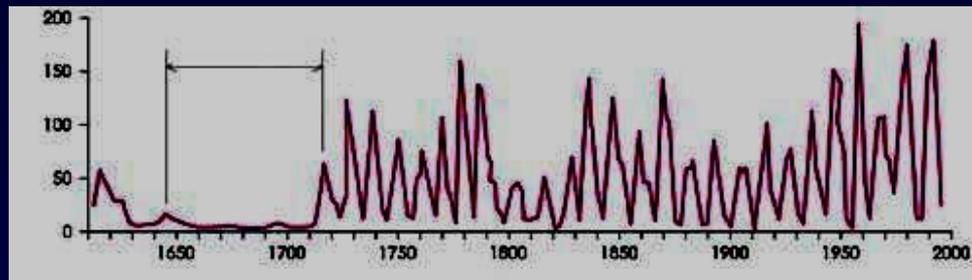
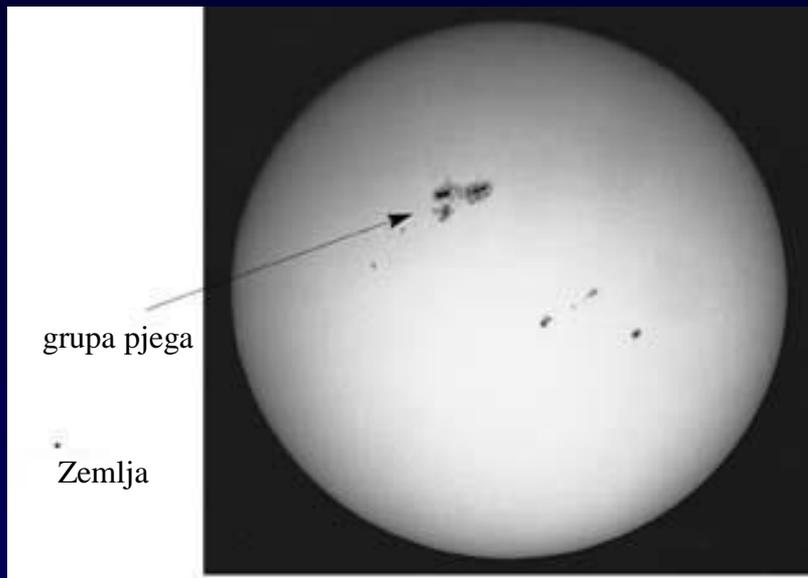
15 milijuna K
gustoća = $150 \times H_2O$
(1 L = 150 kg)

$4H \rightarrow He$
(600 milijuna
tona / s)

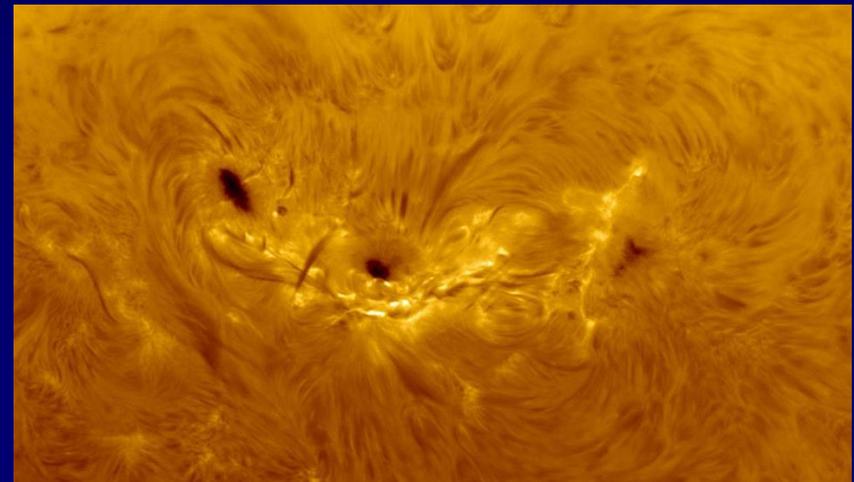
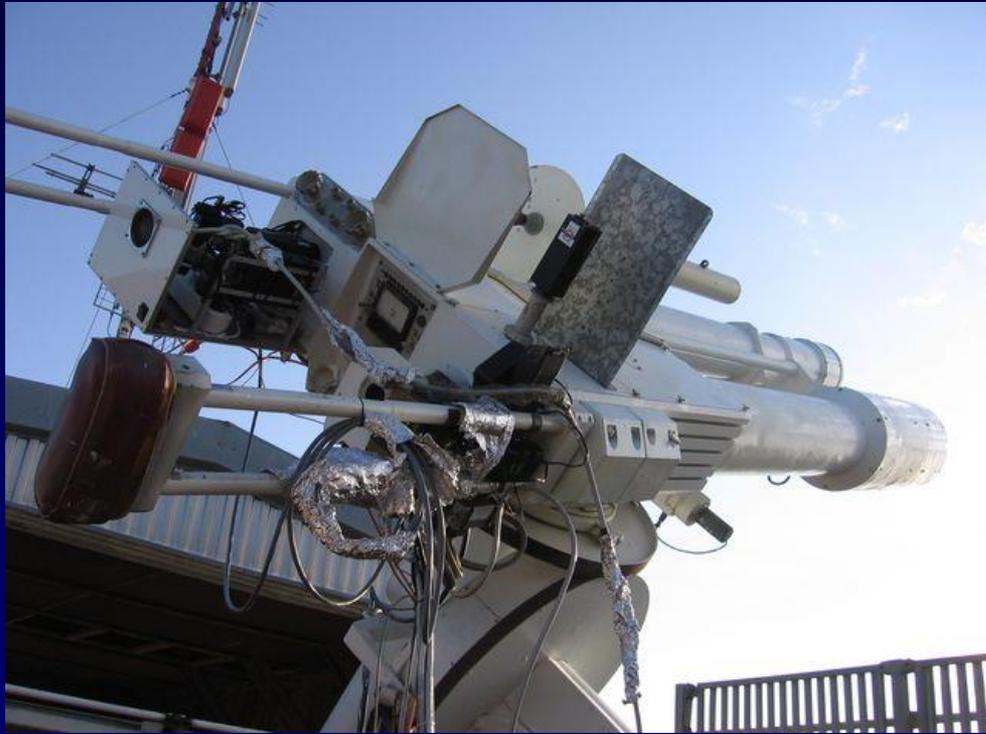
5800 K

Sunce = zvijezda

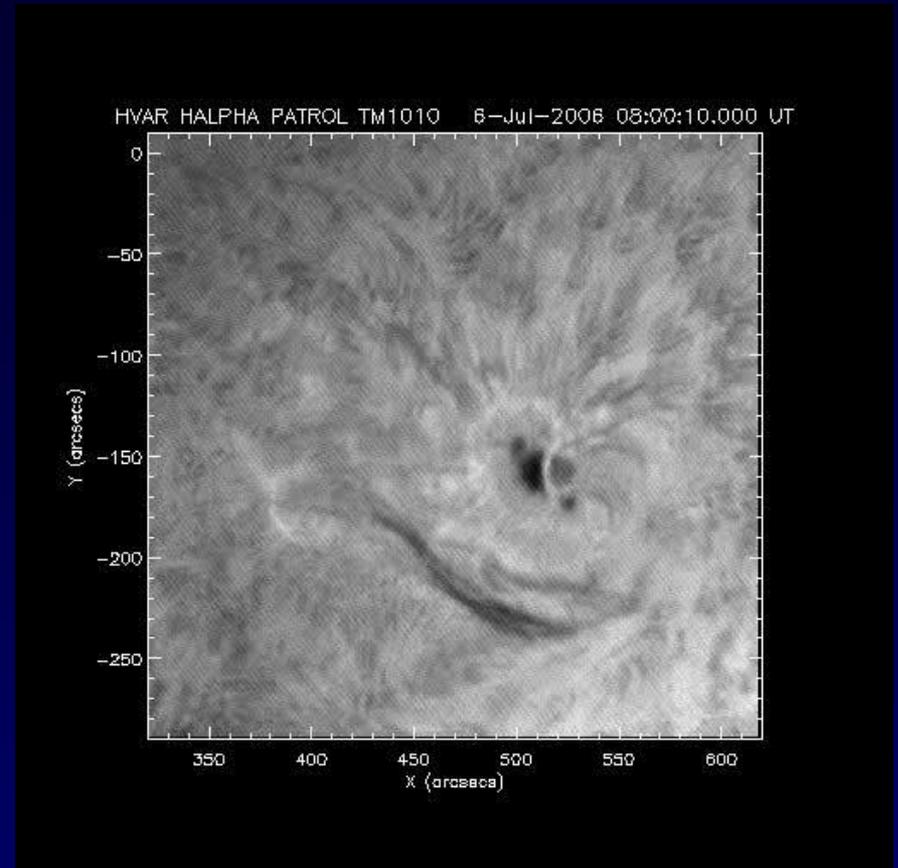
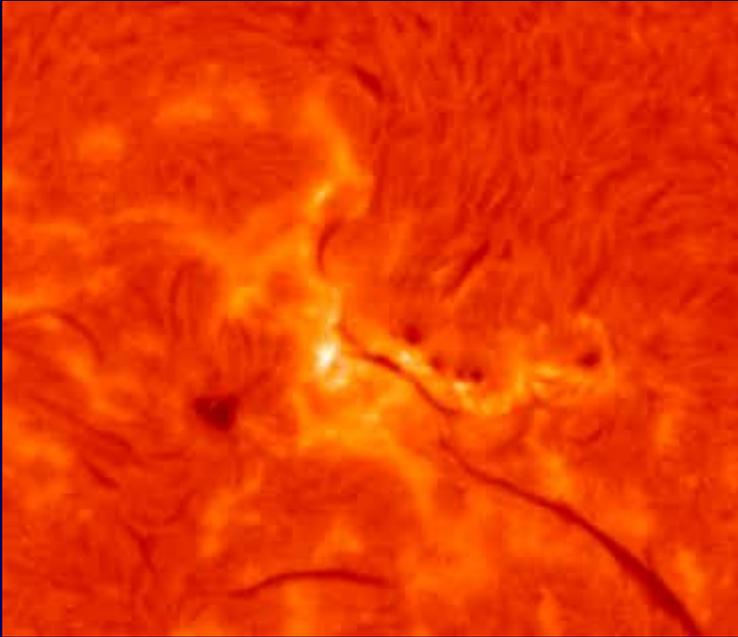
Sunčeva aktivnost



Hvarski solarni teleskop



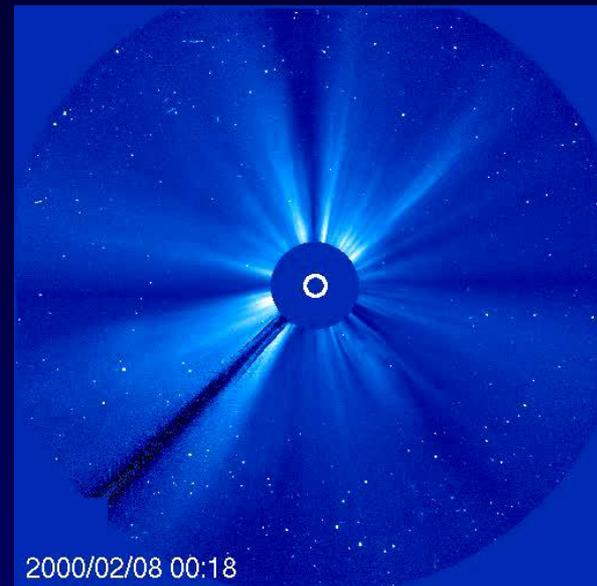
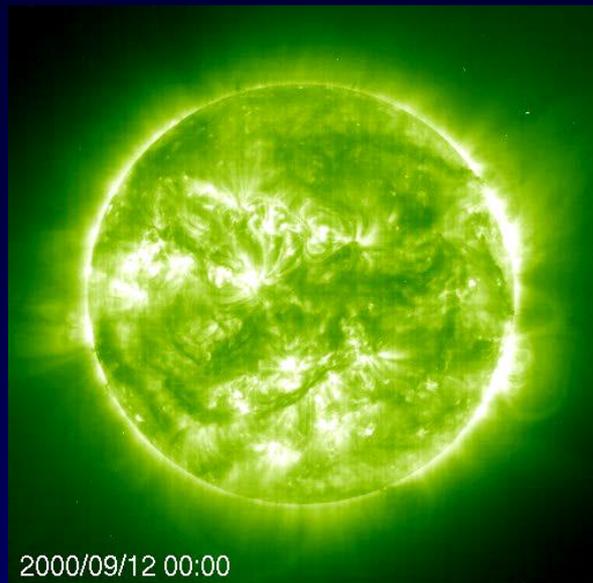
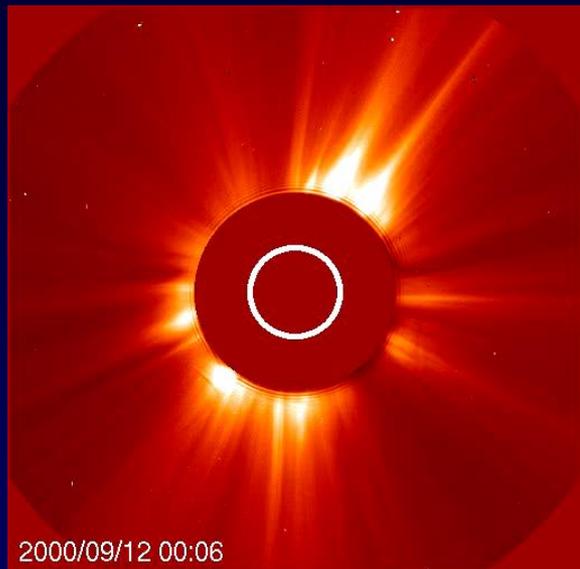
Sunčevi bljeskovi



- 40 milijuna K
- snopovi čestica
- radio i X zračenje

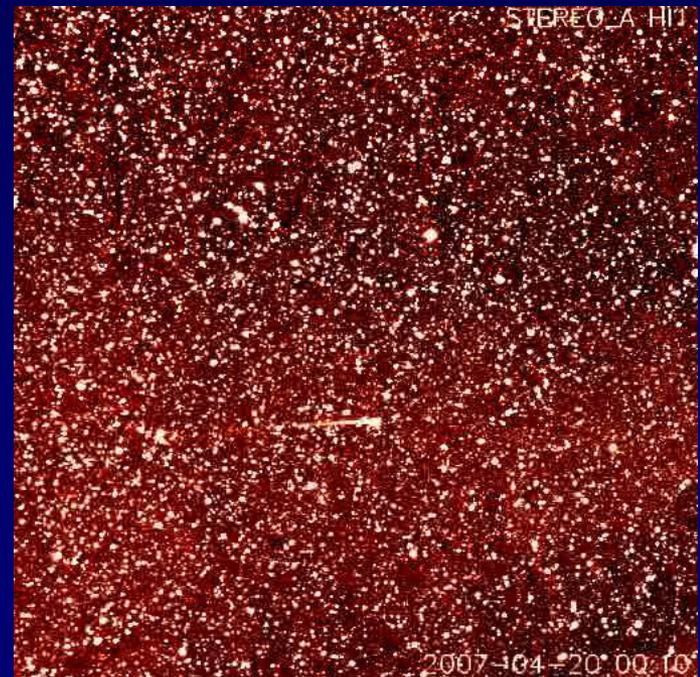
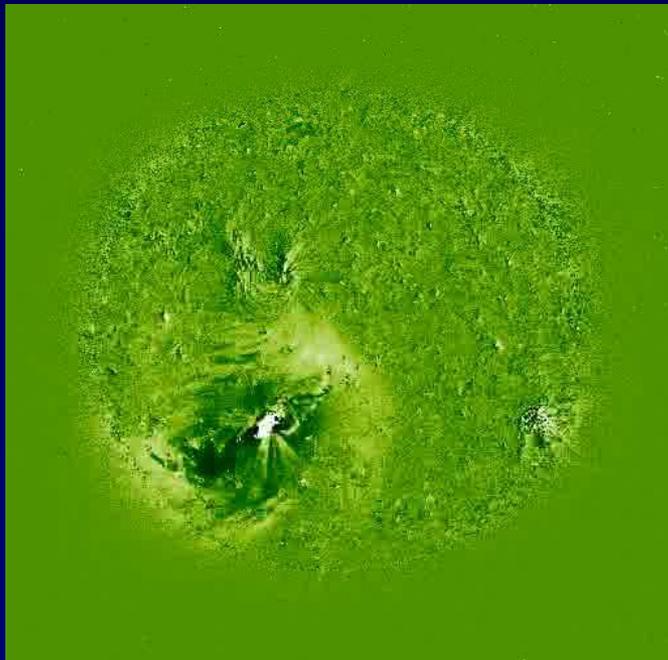
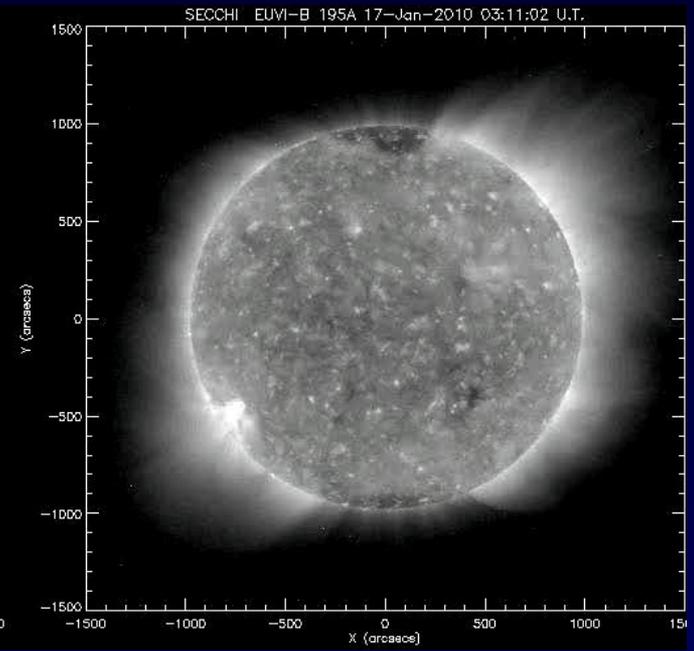
Apr 21 2002 00:37:09

Sunčeve erupcije (koronini izbačaji)

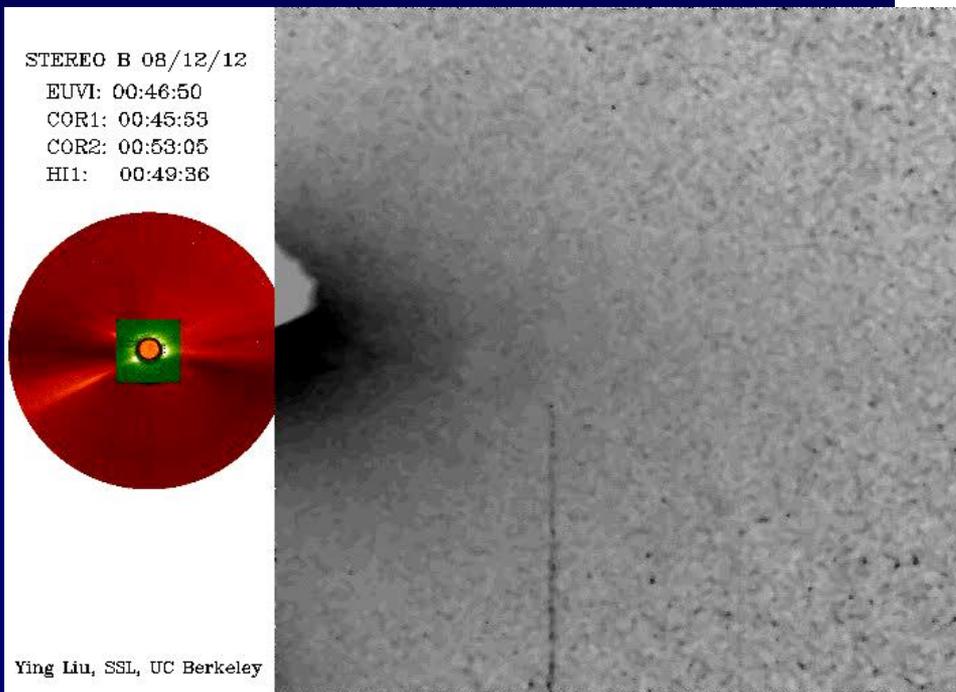
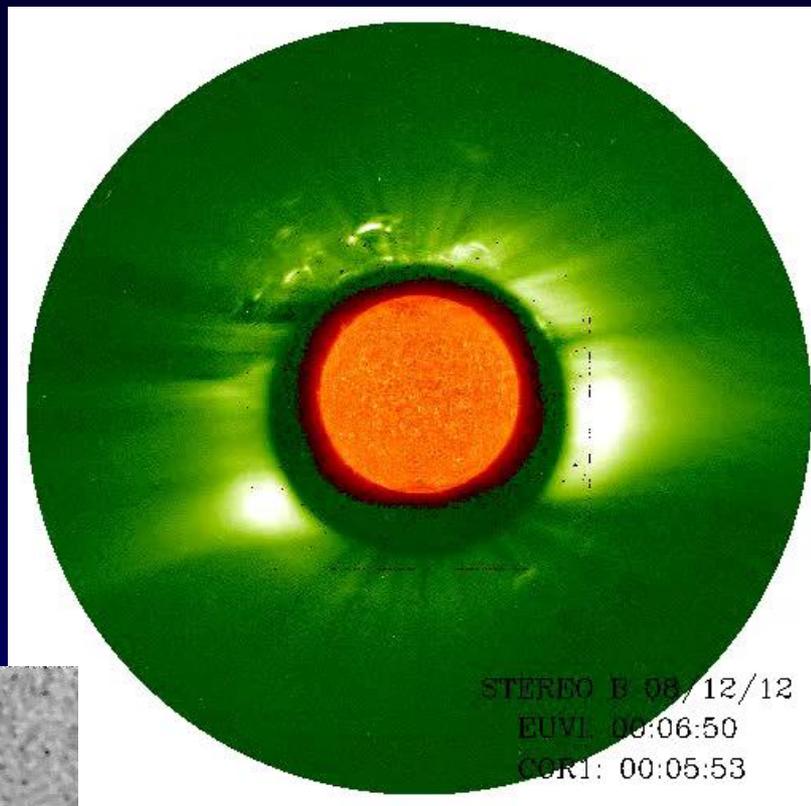


brzine = 1000 km/s
masa = nekoliko milijardi tona
energija = 100 milijardi A-bombi

Udarni valovi



Međuplanetarni prostor



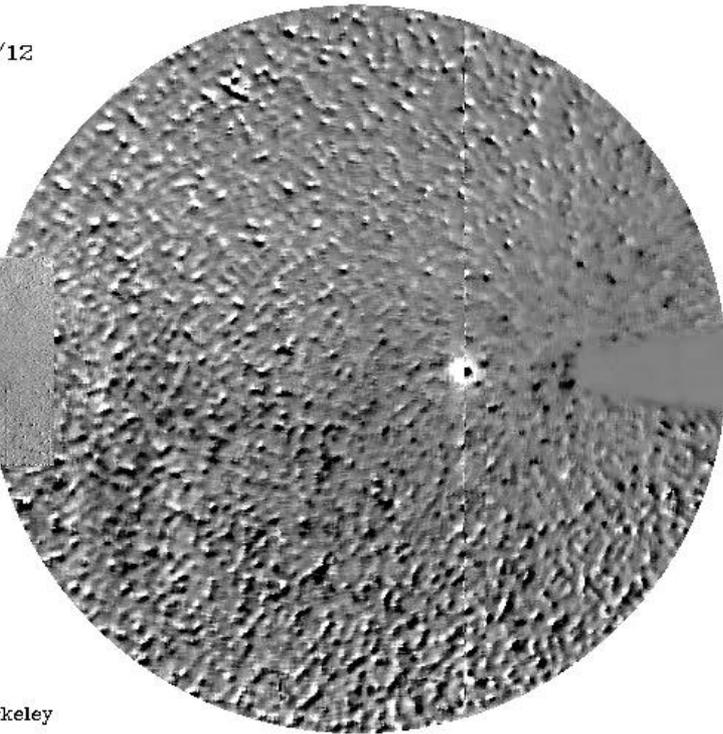
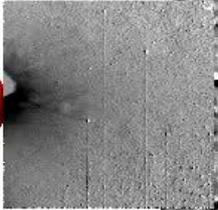
STEREO

STEREO B 08/12/12

COR2: 02:08:05

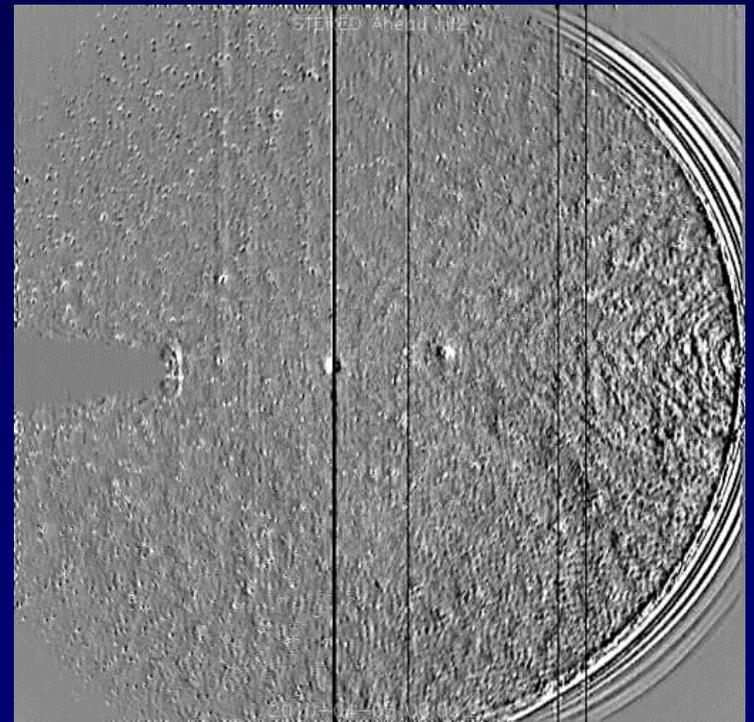
HI1: 02:09:36

HI2: 02:09:56



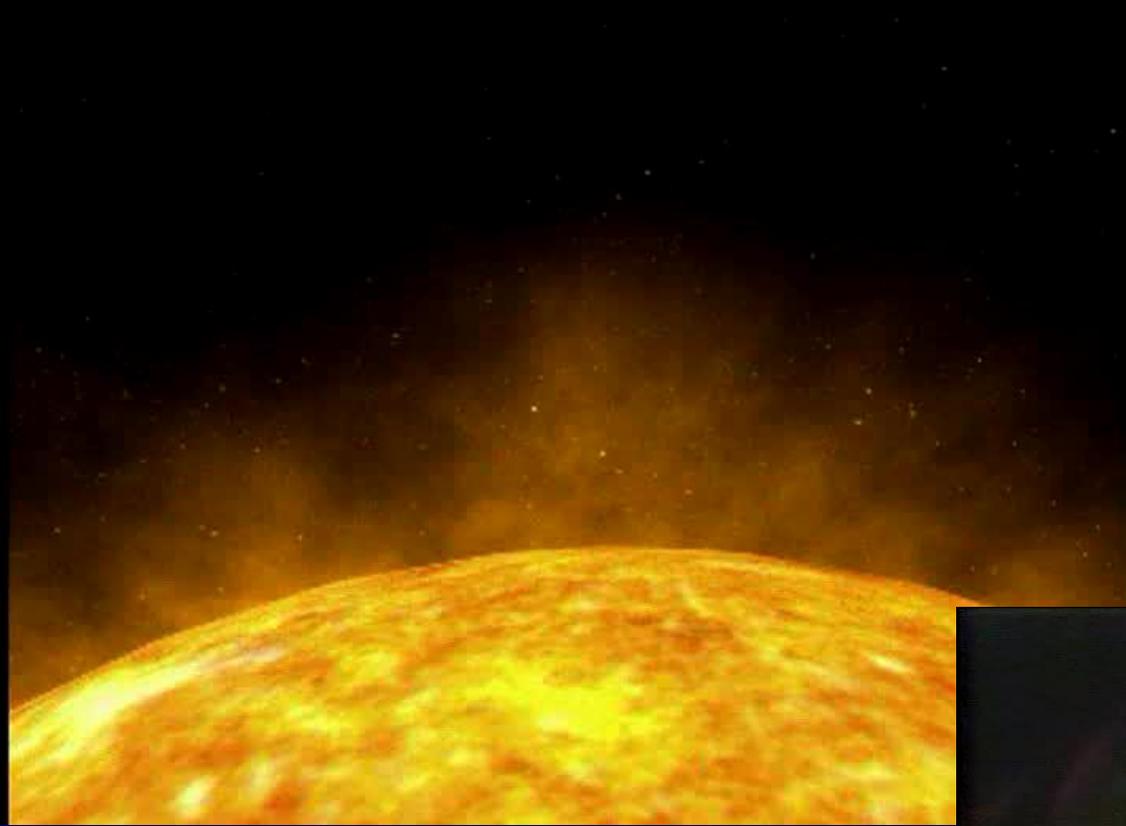
Ying Liu, SSL, UC Berkeley

STEREO-B

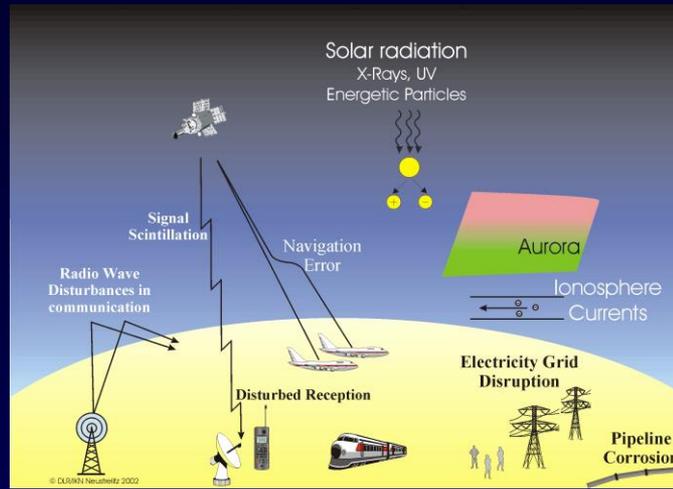
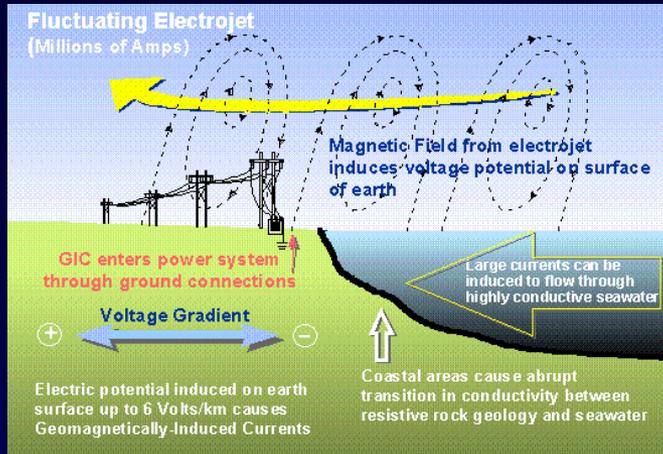


STEREO-A

Utjecaja Sunčeve aktivnosti na Zemlju







PJM Public Service Step Up Transformer

Severe internal damage caused by the space storm of 13 March, 1989

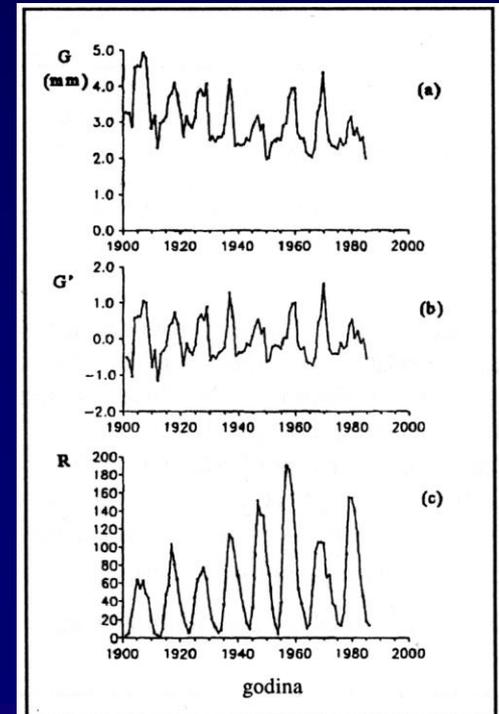
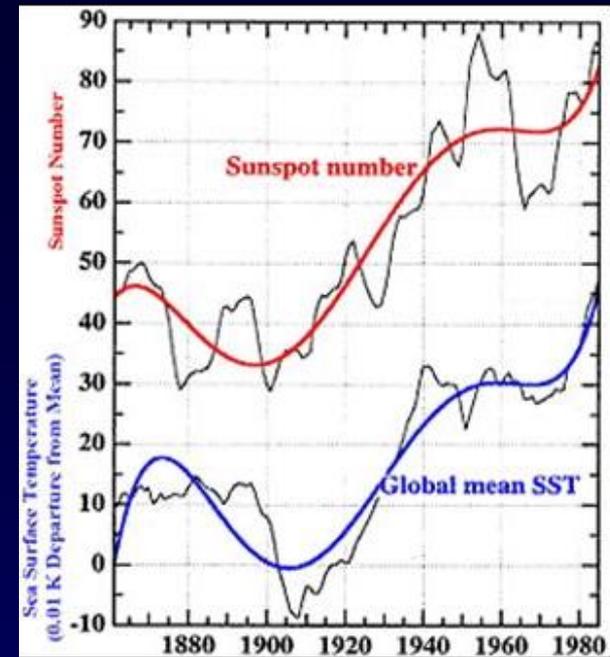
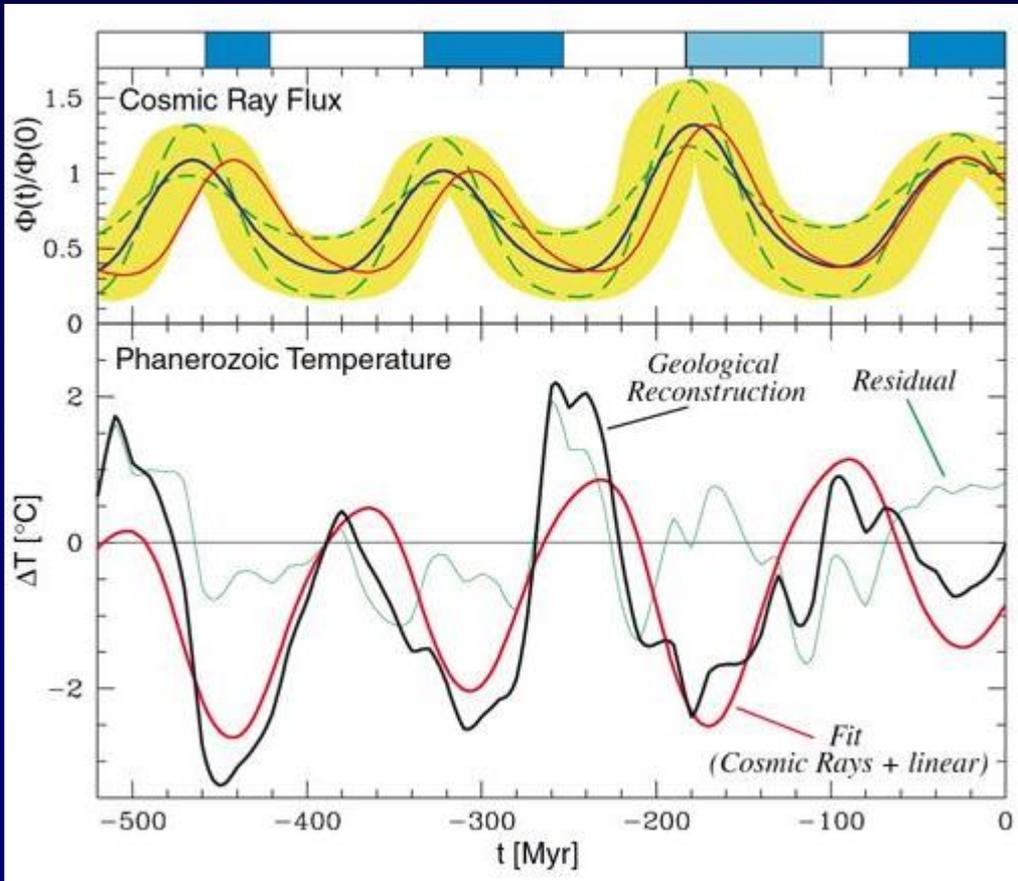
A large space storm in 1989 caused currents which damaged this transformer and shut off power for six million people for nine hours.



Polarna svjetlost u Slavoniji, s nimio M. Karakaš, 20. studenog 2003.

Utjecaj Sunčeve aktivnosti na klimu

aktivnosti na klimu



Kiel

AIP

ISSI Bern

Meudon

KIS



Ondrejov

Tatr. Lomn.

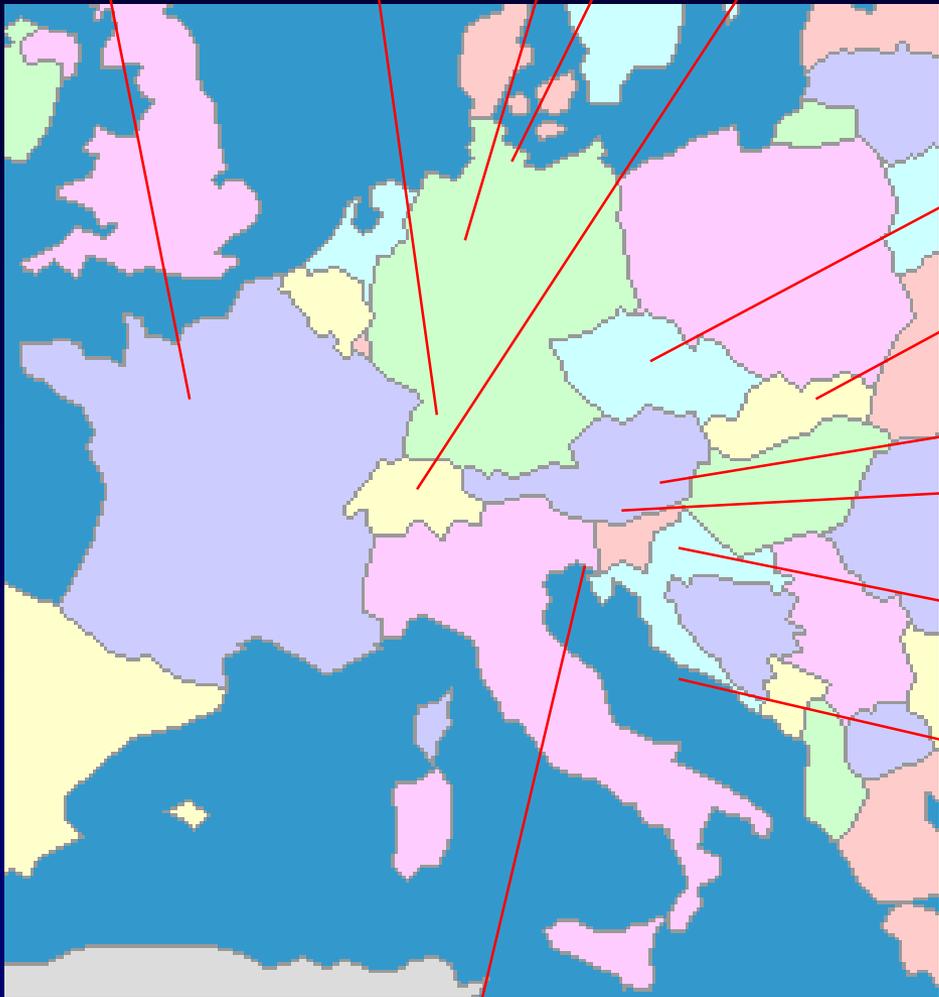
Graz

KSO

Zagreb

Hvar

Trieste



US:

GSFC

AFRL

MLSO

NRL

UAH

...



HVALA NA PAŽNJI !