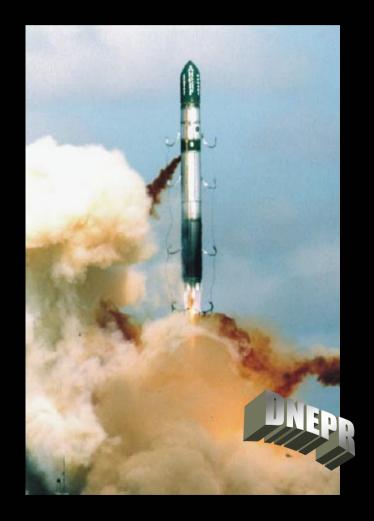


## Detection of Electro-Magnetic Emissions Transmitted from Earthquake Regions

- French microsatellite (150kg)
- Launched in June 2004
- Yet operational today
- Polar orbit, heliosynchrone, 700km







## Scientific payload

- IMSC AC magnetic field [0.2, 20] kHz
- ICE DC/AC electric field up to 3.3 MHz
- IAP Thermal ion plasma [0, 20 eV]
- ISL Langmuir probe [-7, 7] V
- IDP Energetic electrons [0.1, 1] MeV





## IAP instrument

IAP:

- Ion retarding analyzer:

  - ion energy [0, 20 eV]
    ion mass/charge (H+, He+, O+ etc.)
  - ion temperature
- Ion direction analyzer









## **ICE** instrument

- ICE :
- electric field dipole antenna
- 3 axis
- frequency range: DC to 3MHz
- dynamics: few  $\mu$ V/m to few V/m

