

# *La Actividad Solar*

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# EL SOL

- ☀ ¿Qué es el Sol y cuál es su estructura ?
- ☀ ¿Qué se entiende por Actividad Solar?
- ☀ Ciclo de Preguntas.

# Características Generales

**Masa:  $1,989 \times 10^{30}$  Kg. -  $332.830 M_{Tierra}$ .**

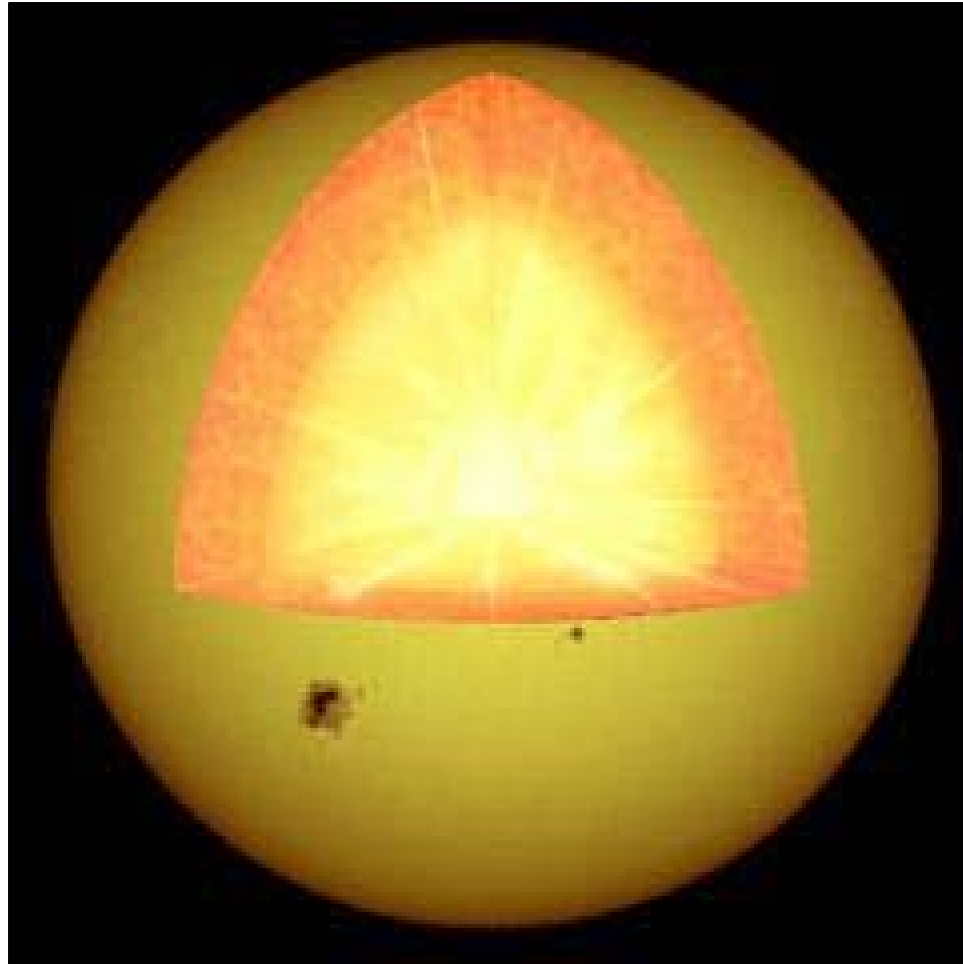
**Radio: 695.000 Km. -  $108,97 R_{Tierra}$ .**

**Volumen:  $1,4062 \times 10^{18}$  Km<sup>3</sup> - 1.293.960 Tierras.**

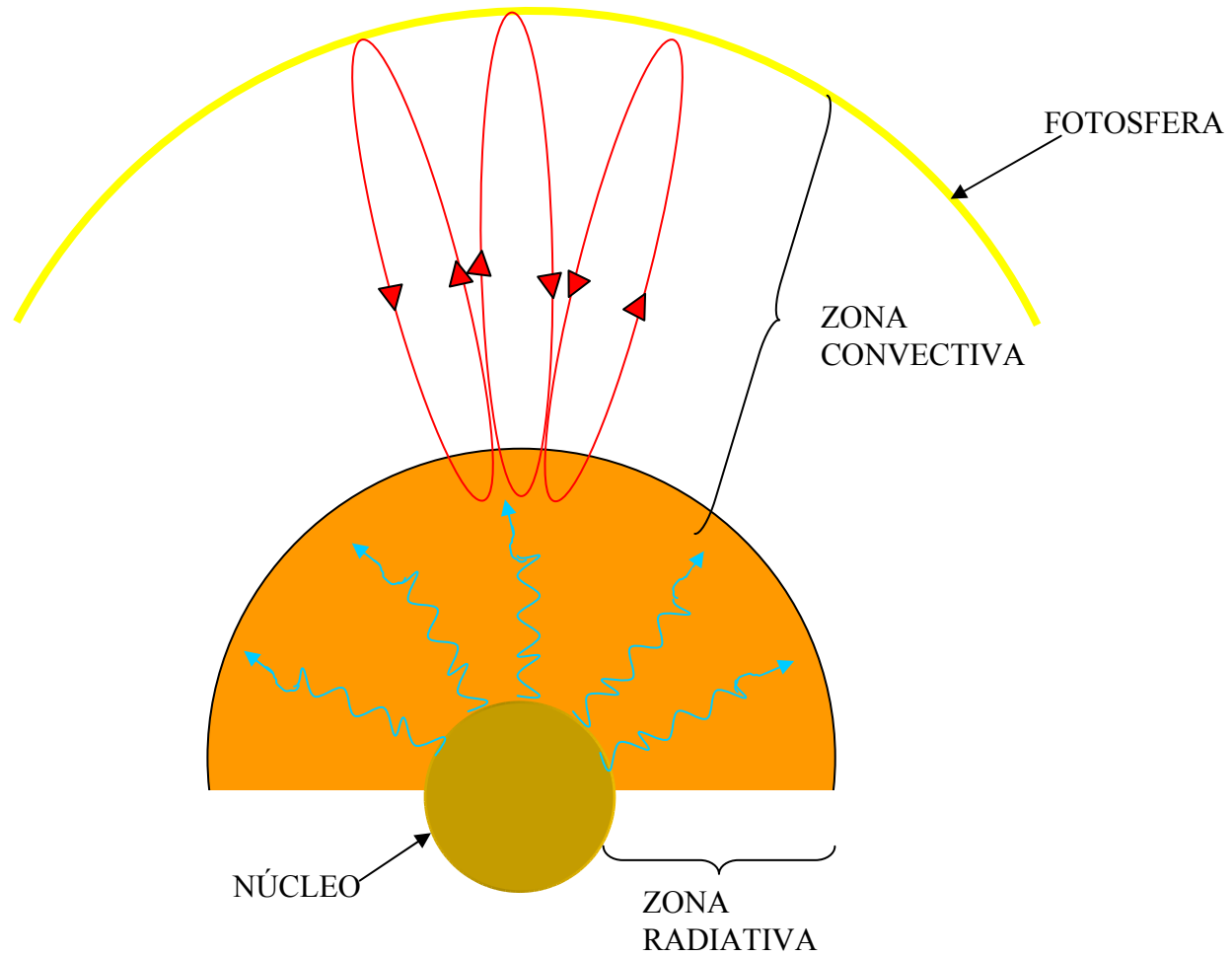
**Densidad: 1,410 gm./cm.<sup>3</sup> - 0,256 Densidad<sub>Tierra</sub>.**

**Luminosidad:  $4 \times 10^{24}$  bombillos de 100 vatios.**

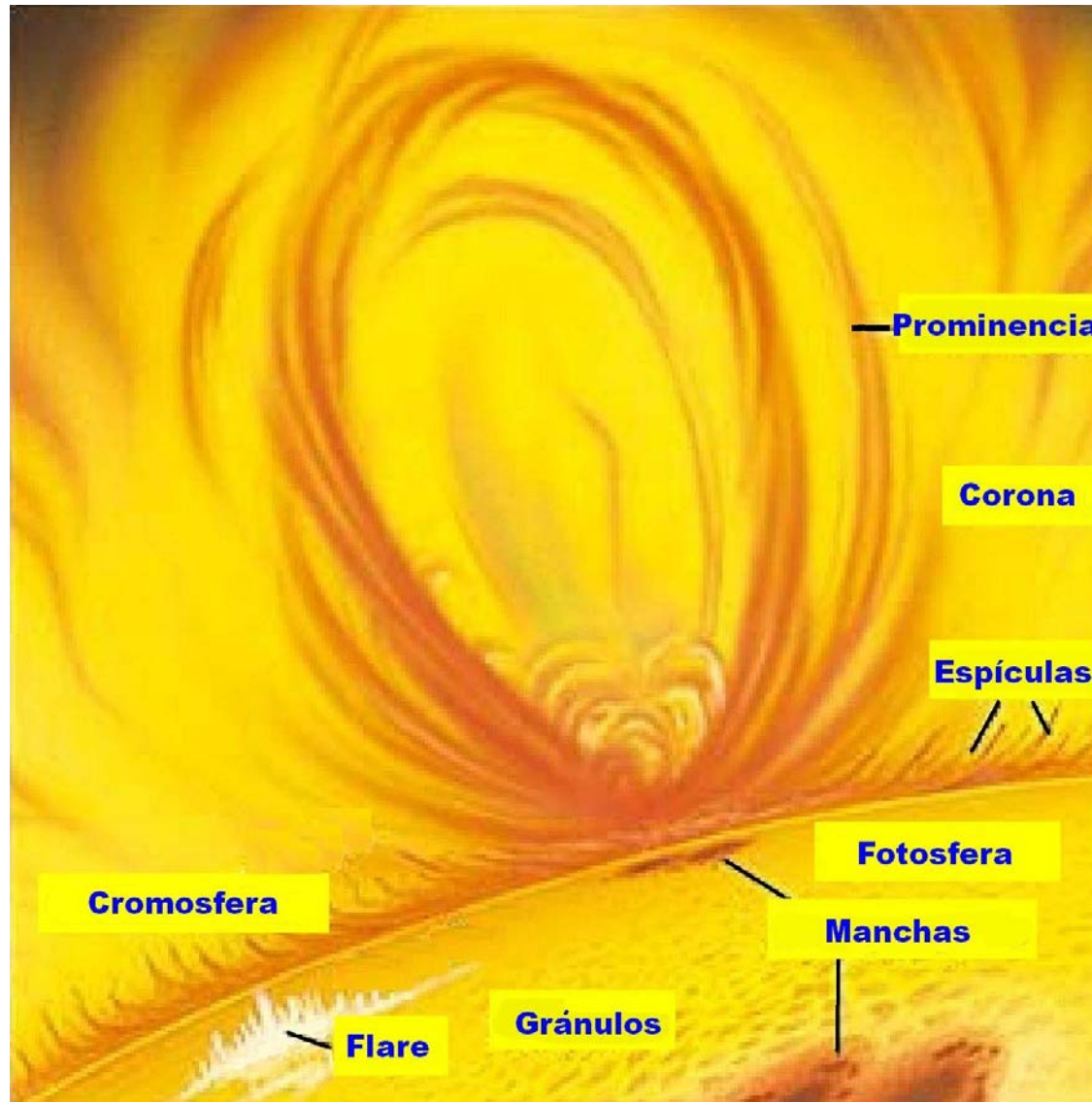


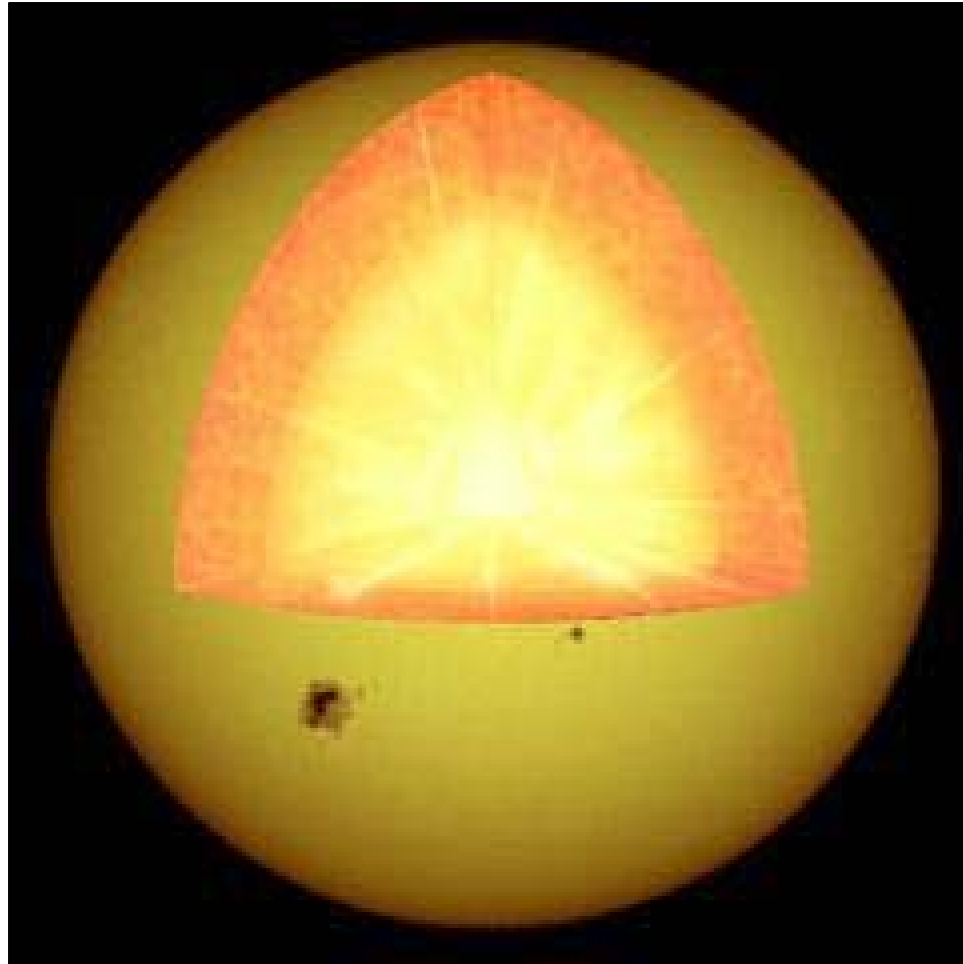


# Estructura Interna

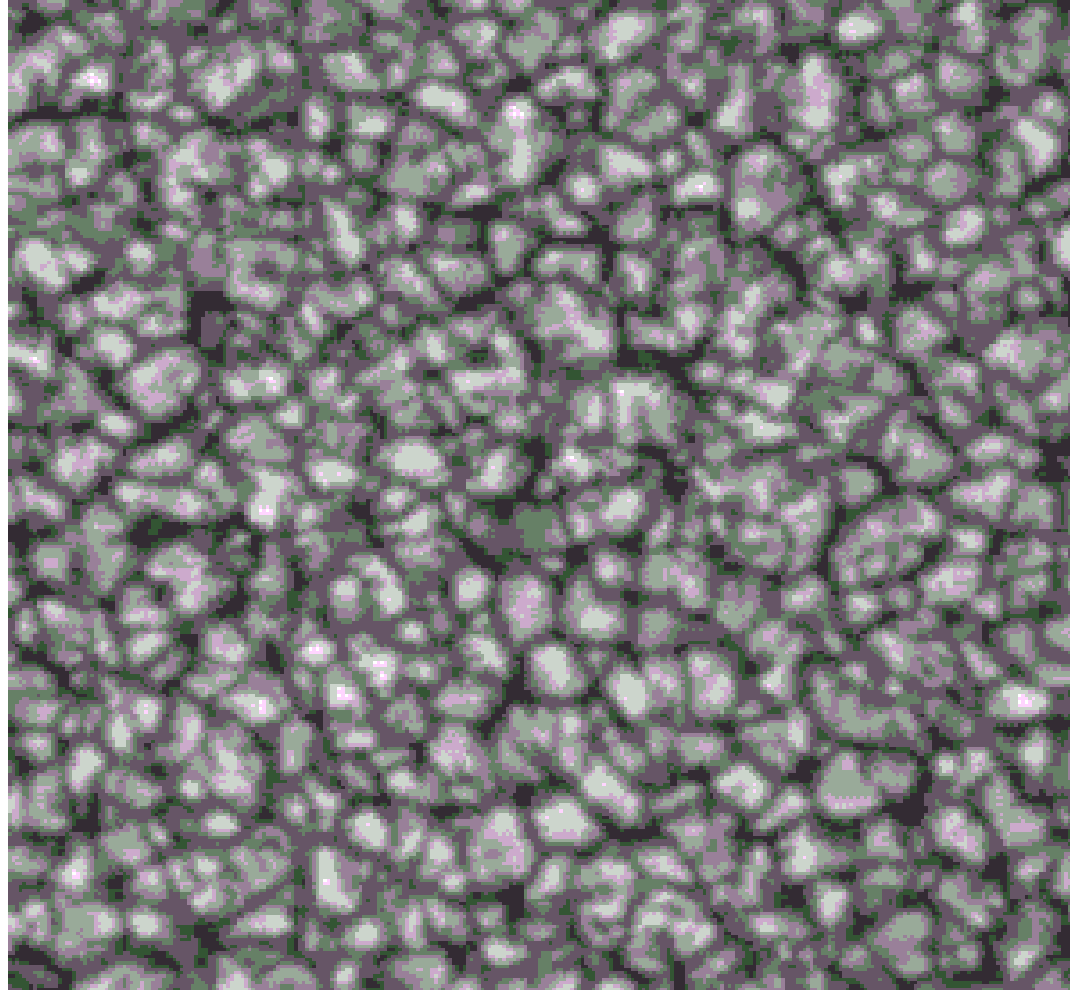


# Características de la actividad solar

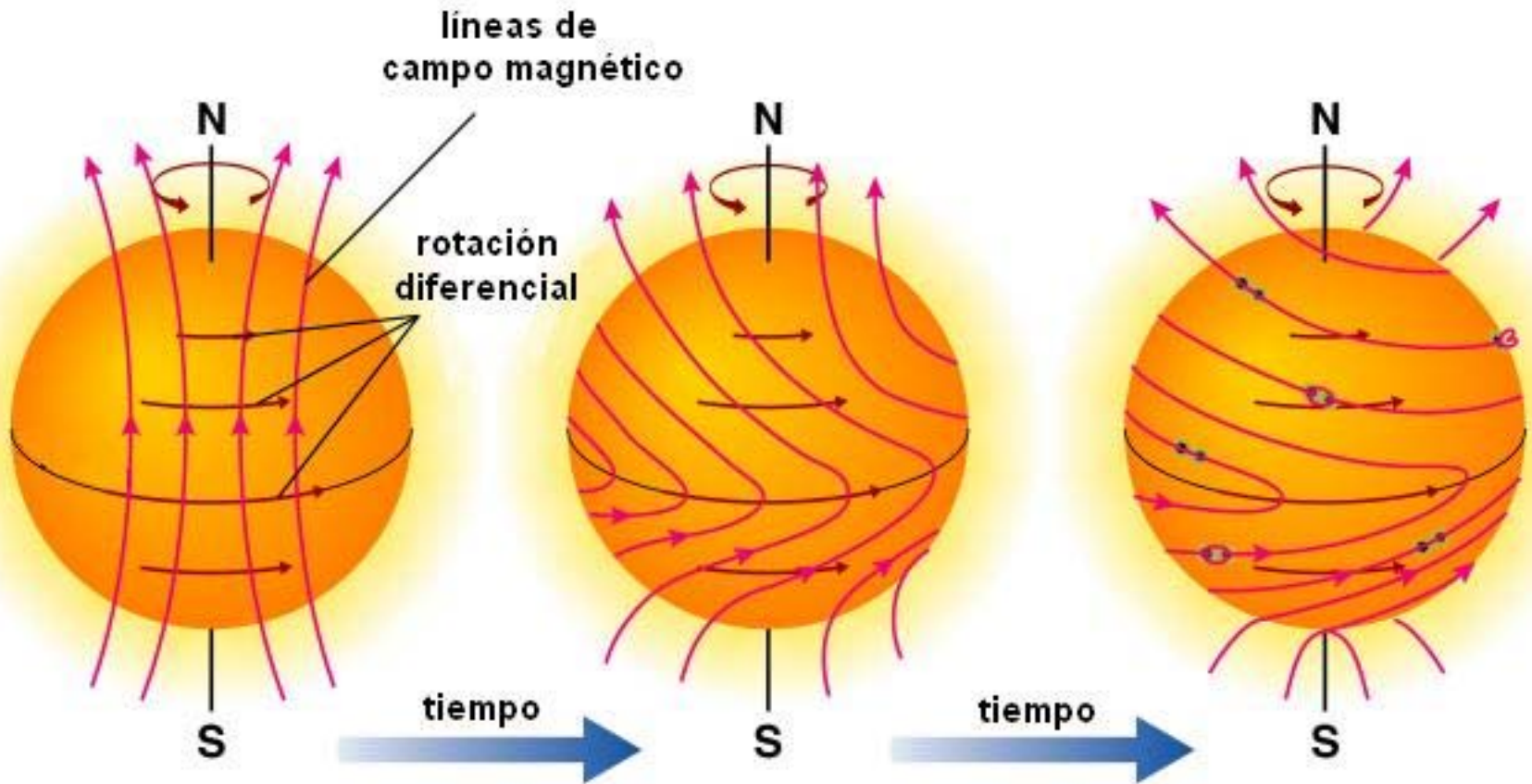




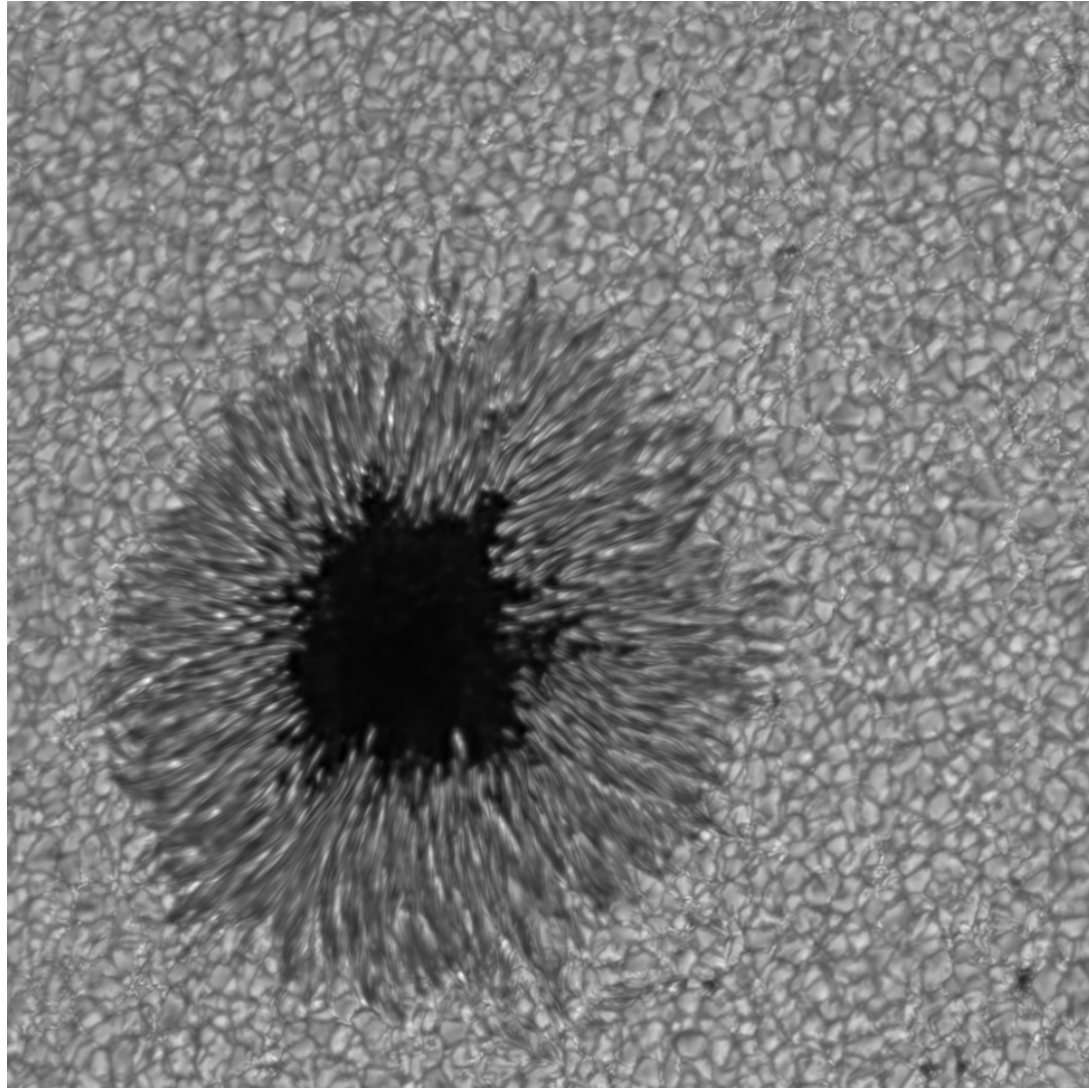
# Gránulos en la fotosfera solar



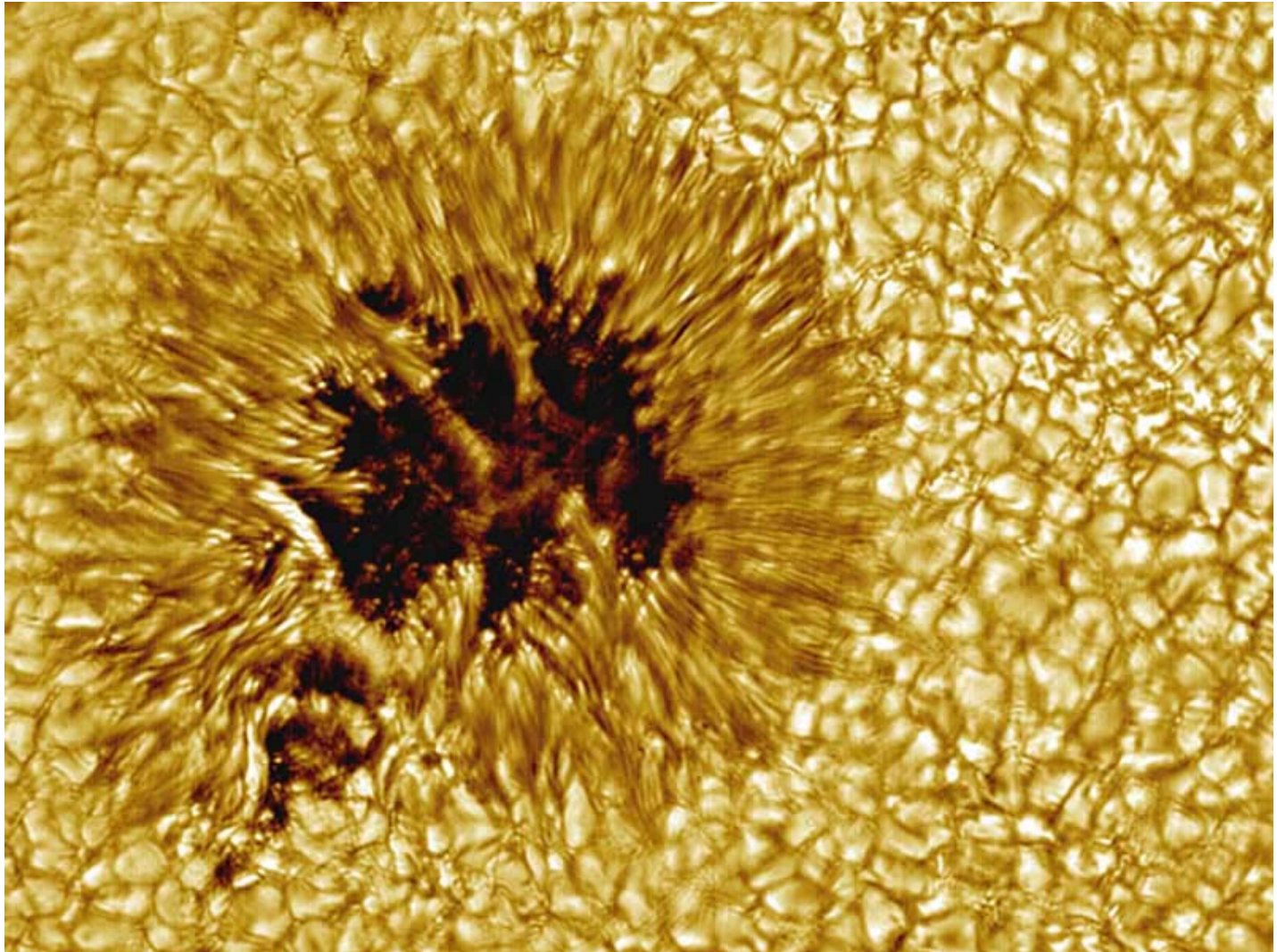
# Cómo se producen las manchas solares



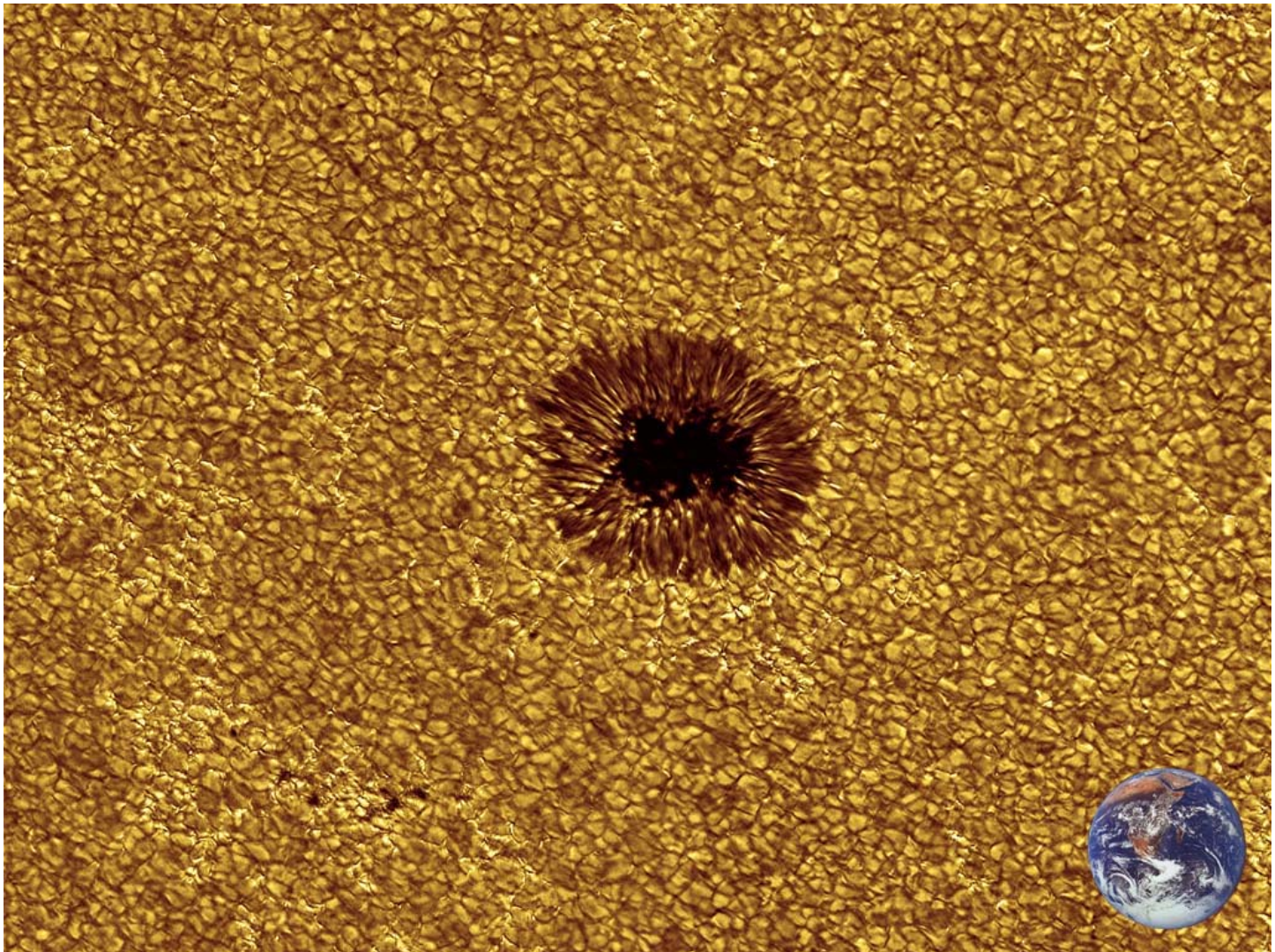
# Mancha y granulación solar



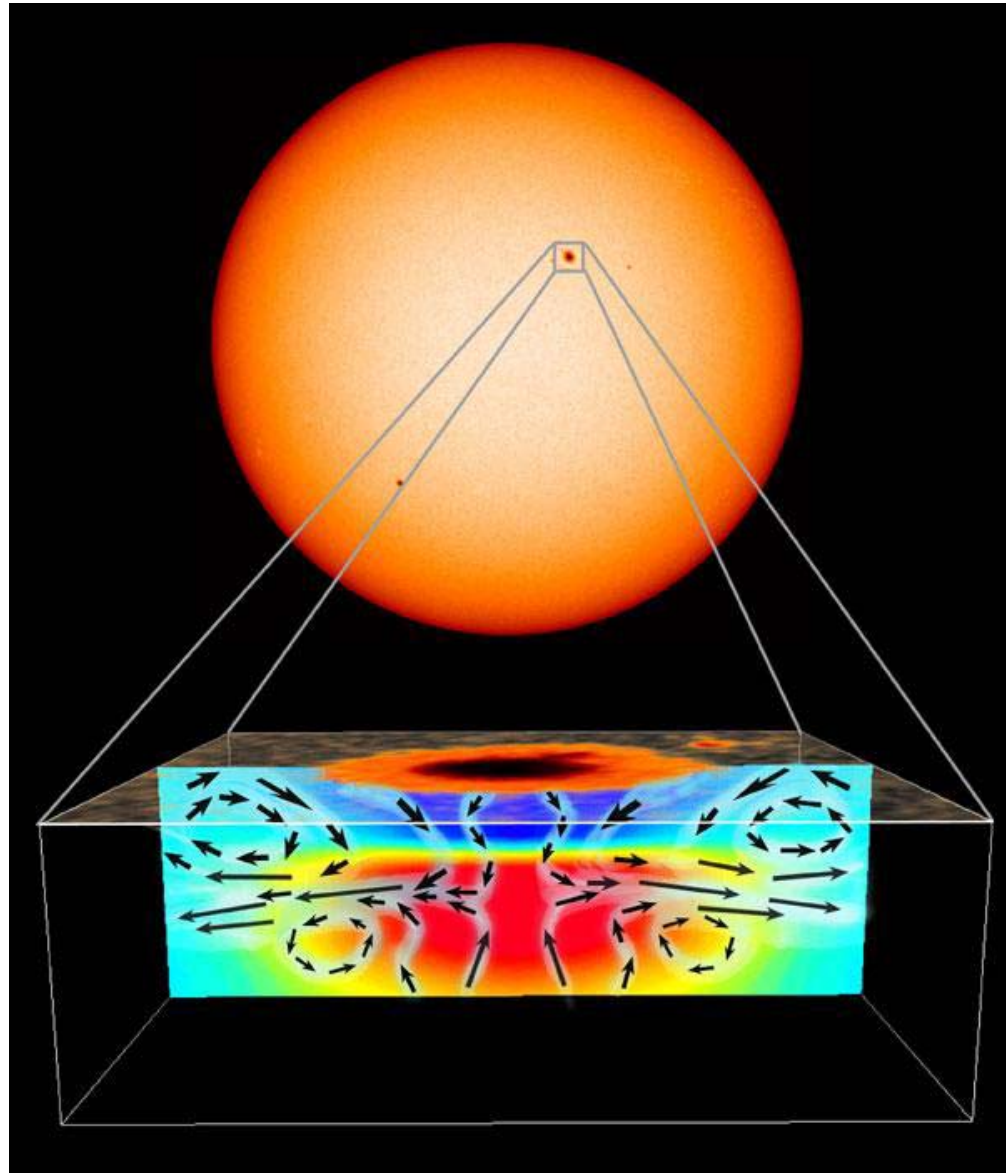
# Mancha y granulación solar



# Comparación con la Tierra



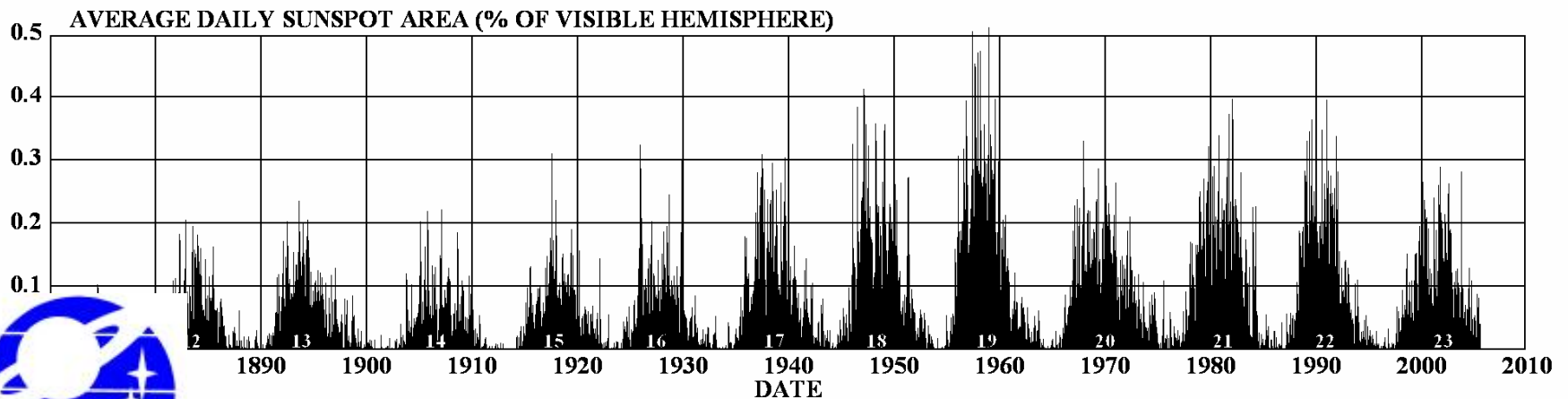
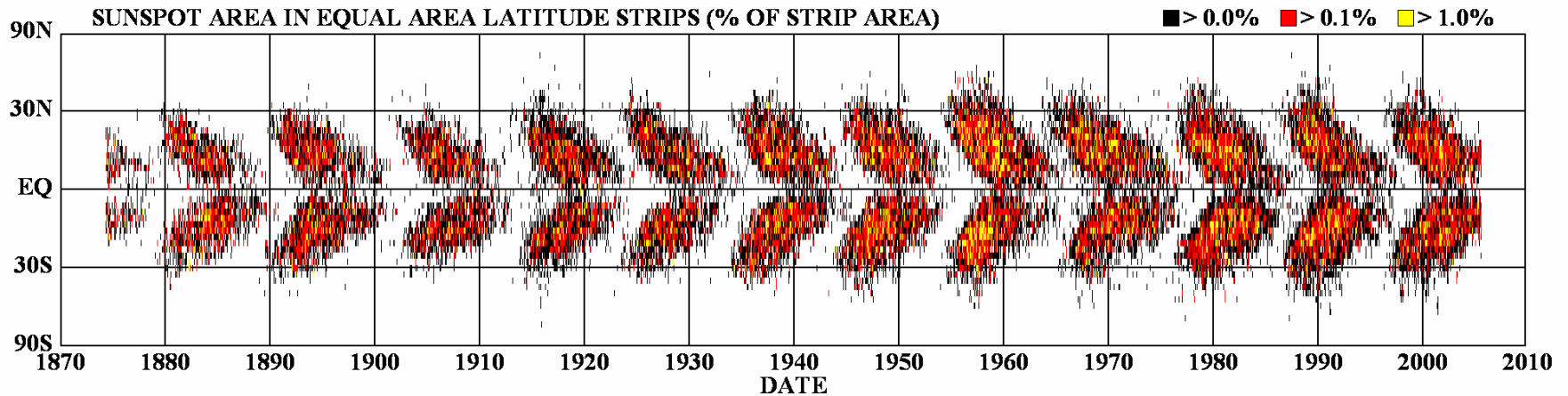
# Proceso interno de la mancha solar



# Actividad Solar

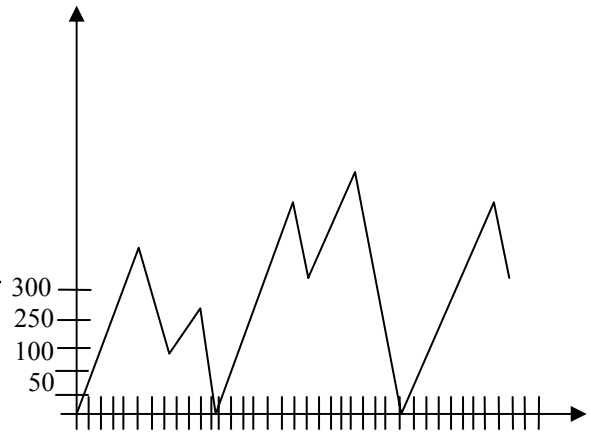
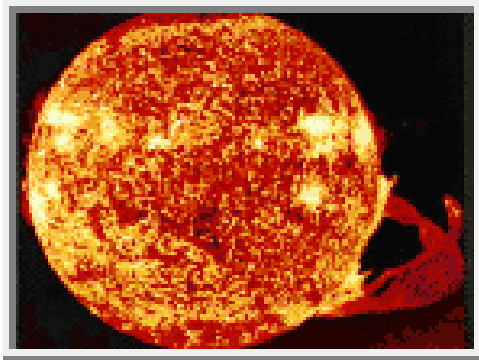
## DAILY SUNSPOT AREA AVERAGED OVER INDIVIDUAL SOLAR ROTATIONS

PROMEDIO DIARIO DE ÁREAS EN VARIAS ROTACIONES DEL SOL

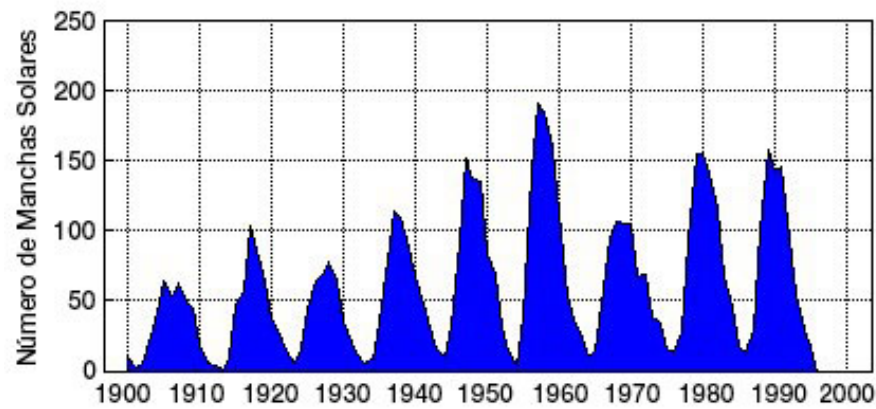
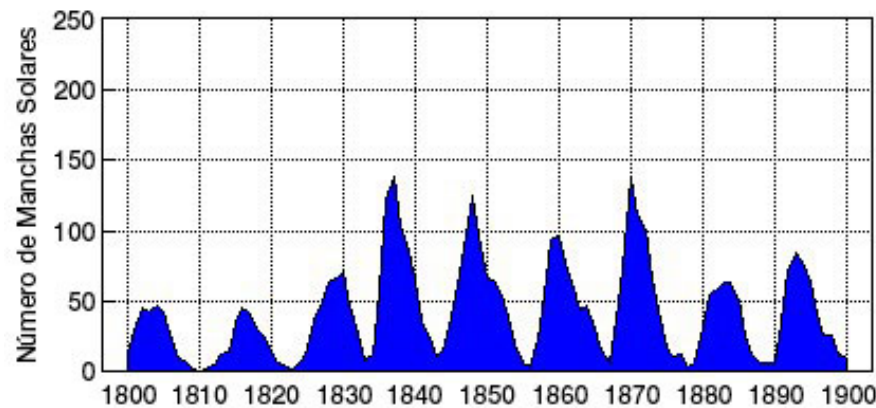
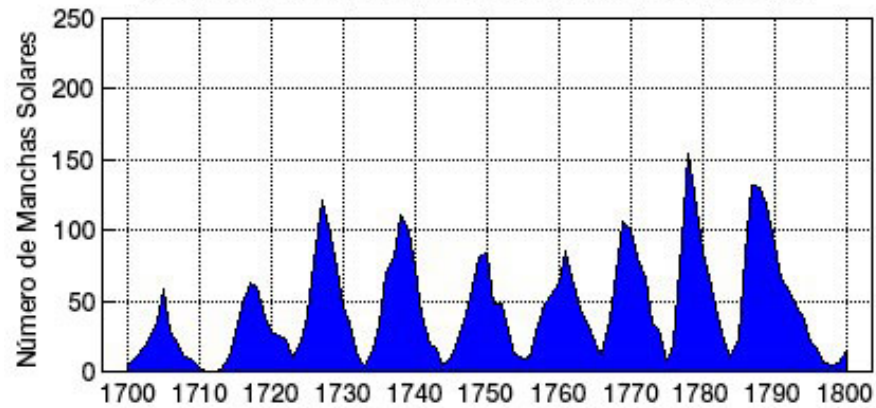


[nasa.gov/ssl/pad/solar/images/bfly.gif](http://nasa.gov/ssl/pad/solar/images/bfly.gif)

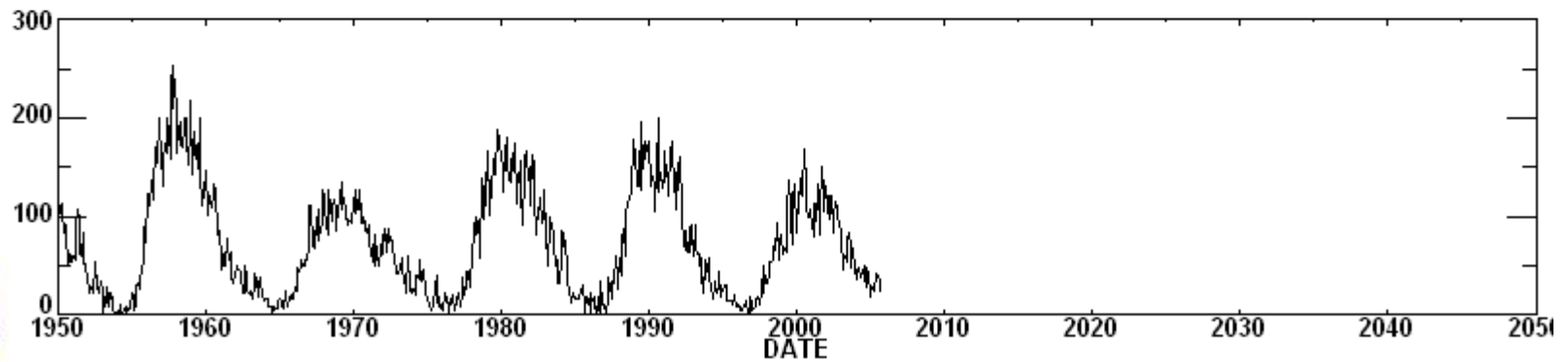
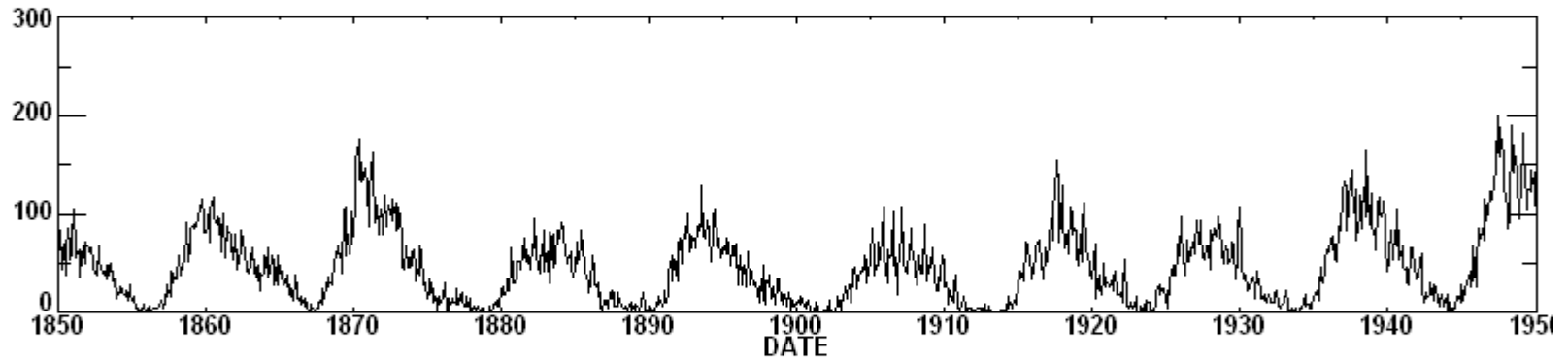
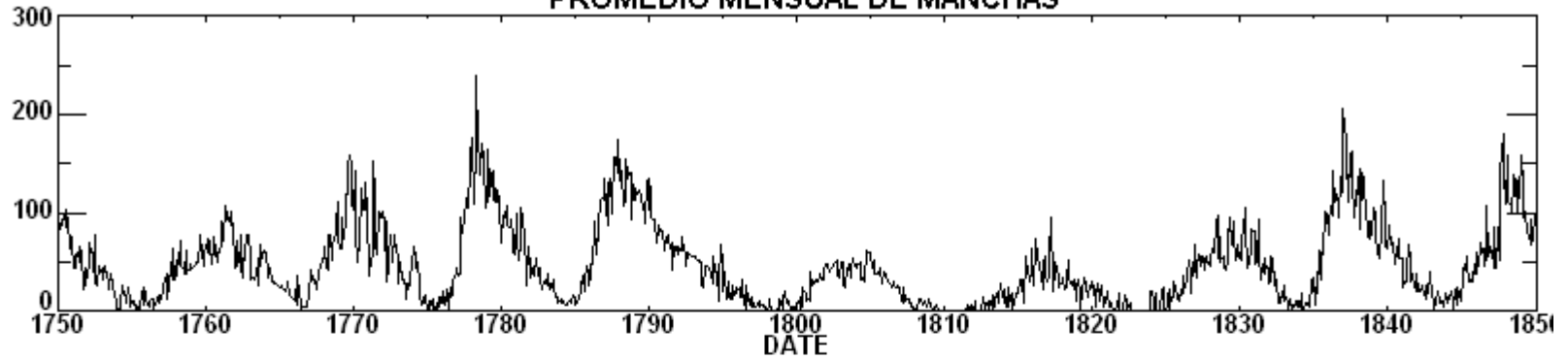
NASA/NSSTC/HATHAWAY 2005/10



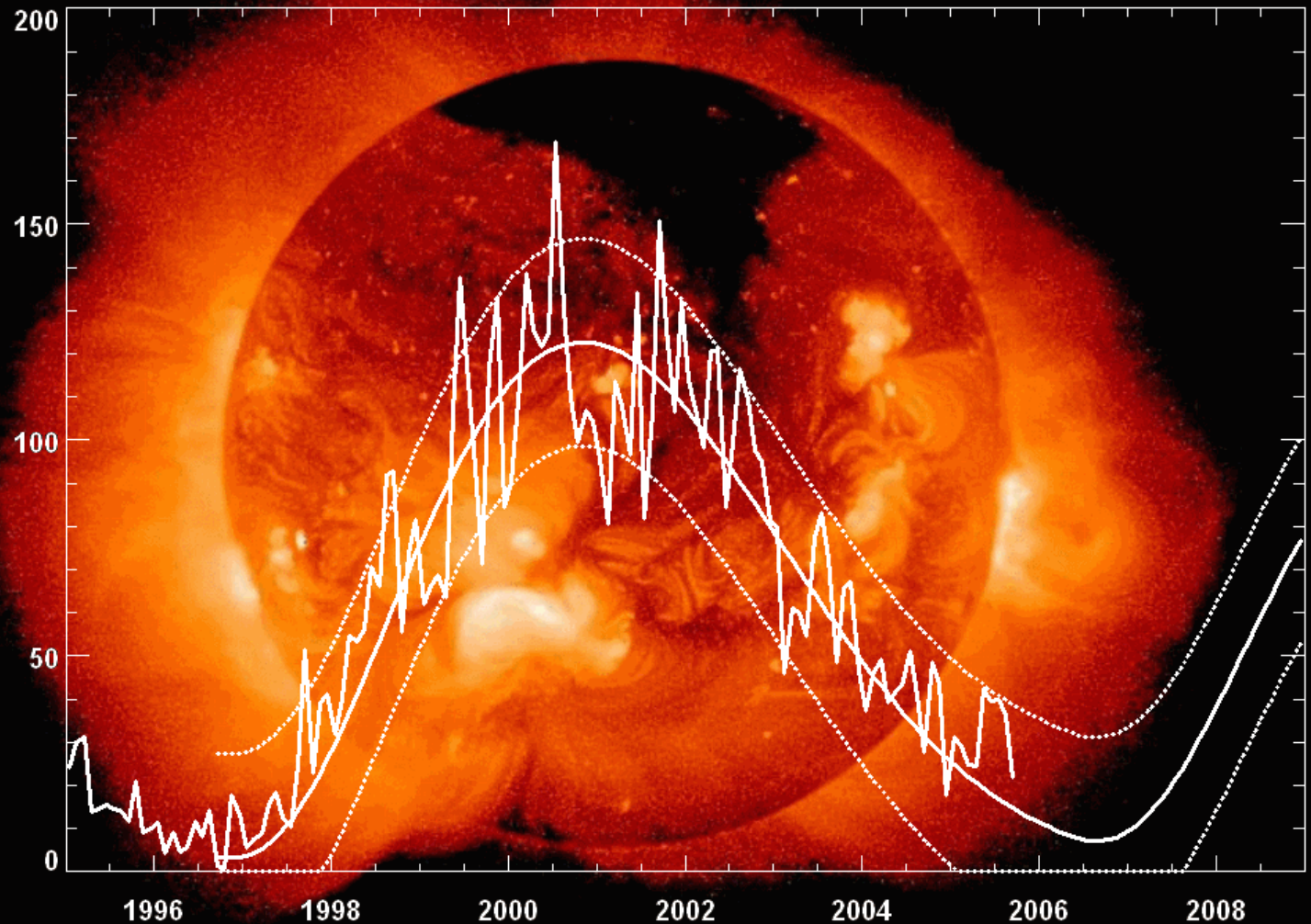
Número de Manchas Solares Anuales 1700-1995



### PROMEDIO MENSUAL DE MANCHAS

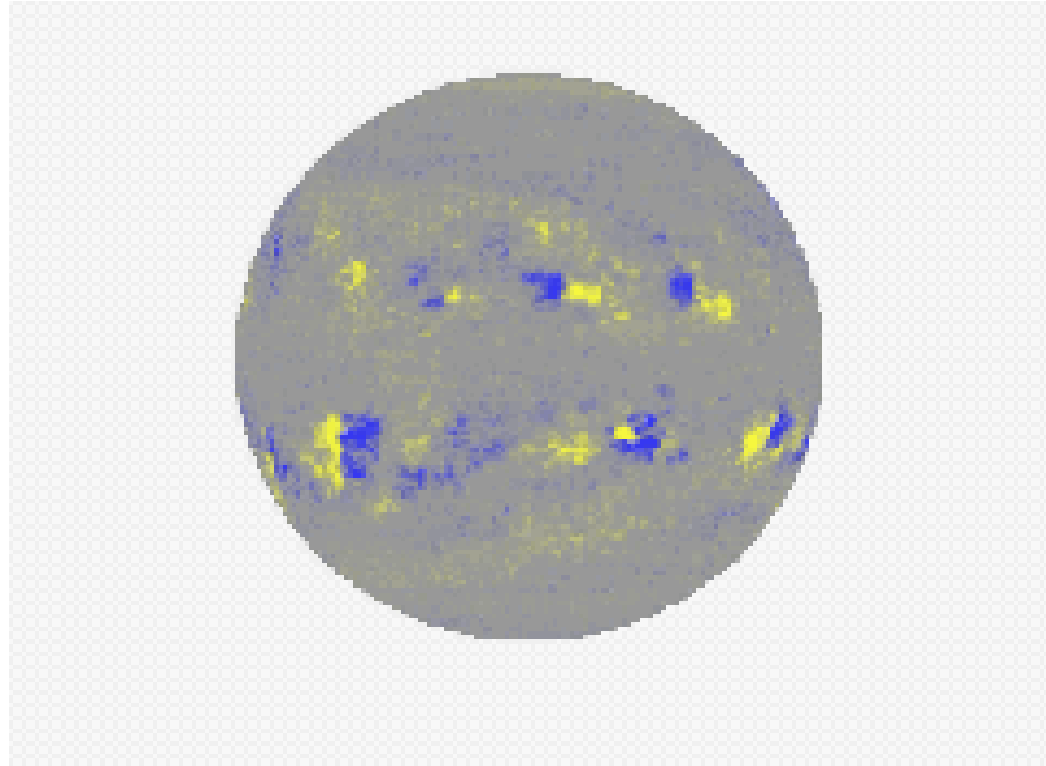


Cycle 23 Sunspot Number Prediction (October 2005)

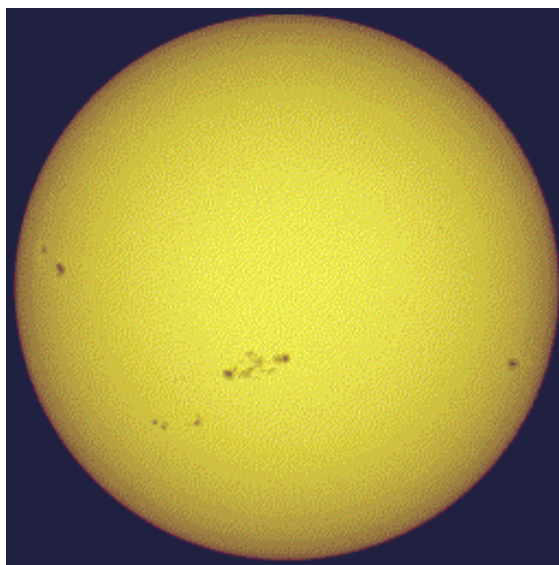


NASA/NSSTC/Hathaway









# El Sol en máximo y mínimo

Near Solar Max - March 2001

Near Solar Min - January 2005

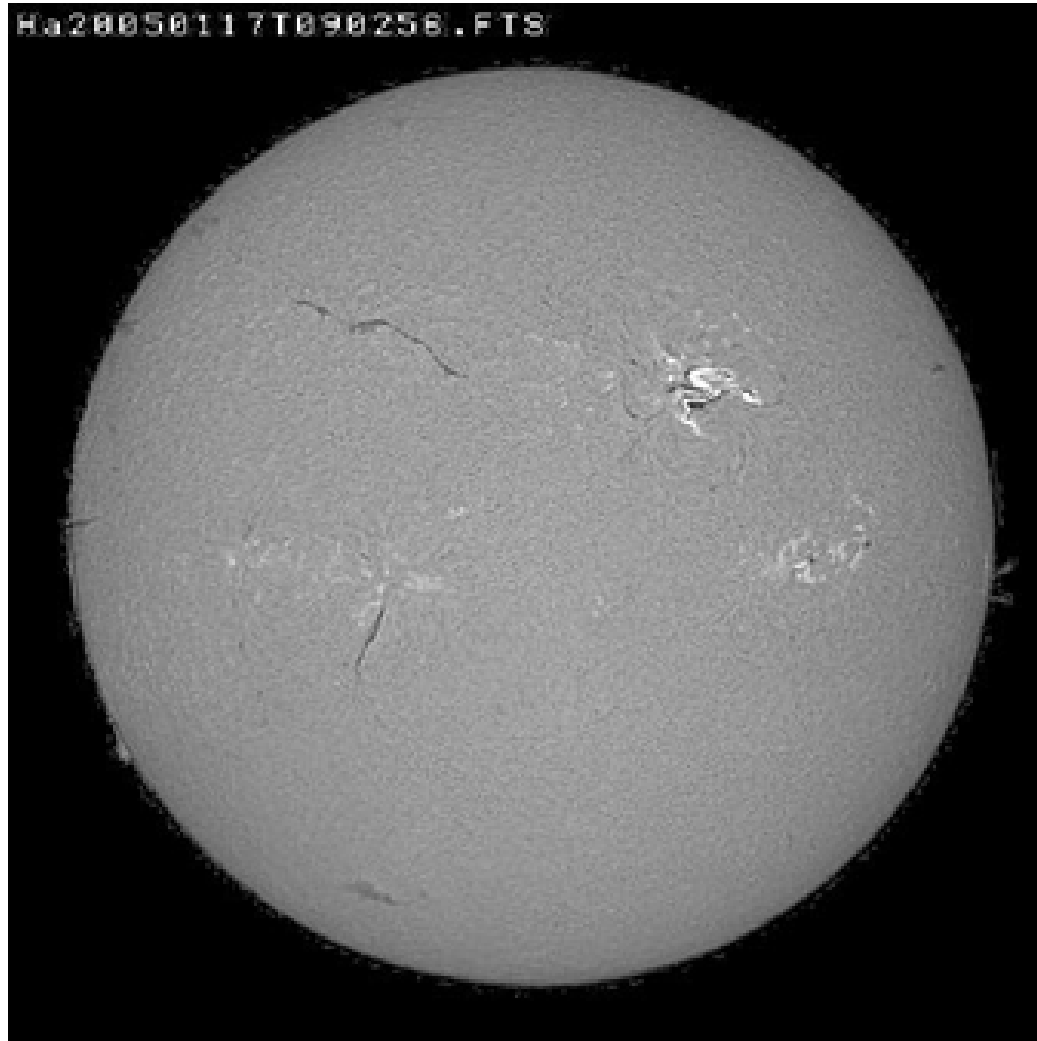


3/29 09:36 UT

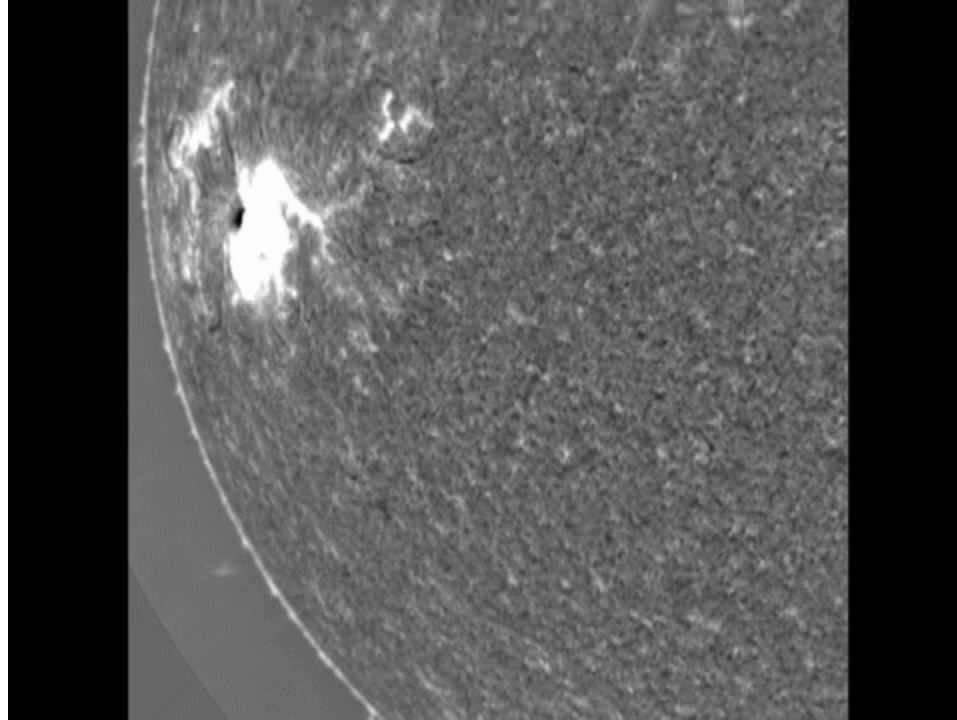
2005/01/07 09:50



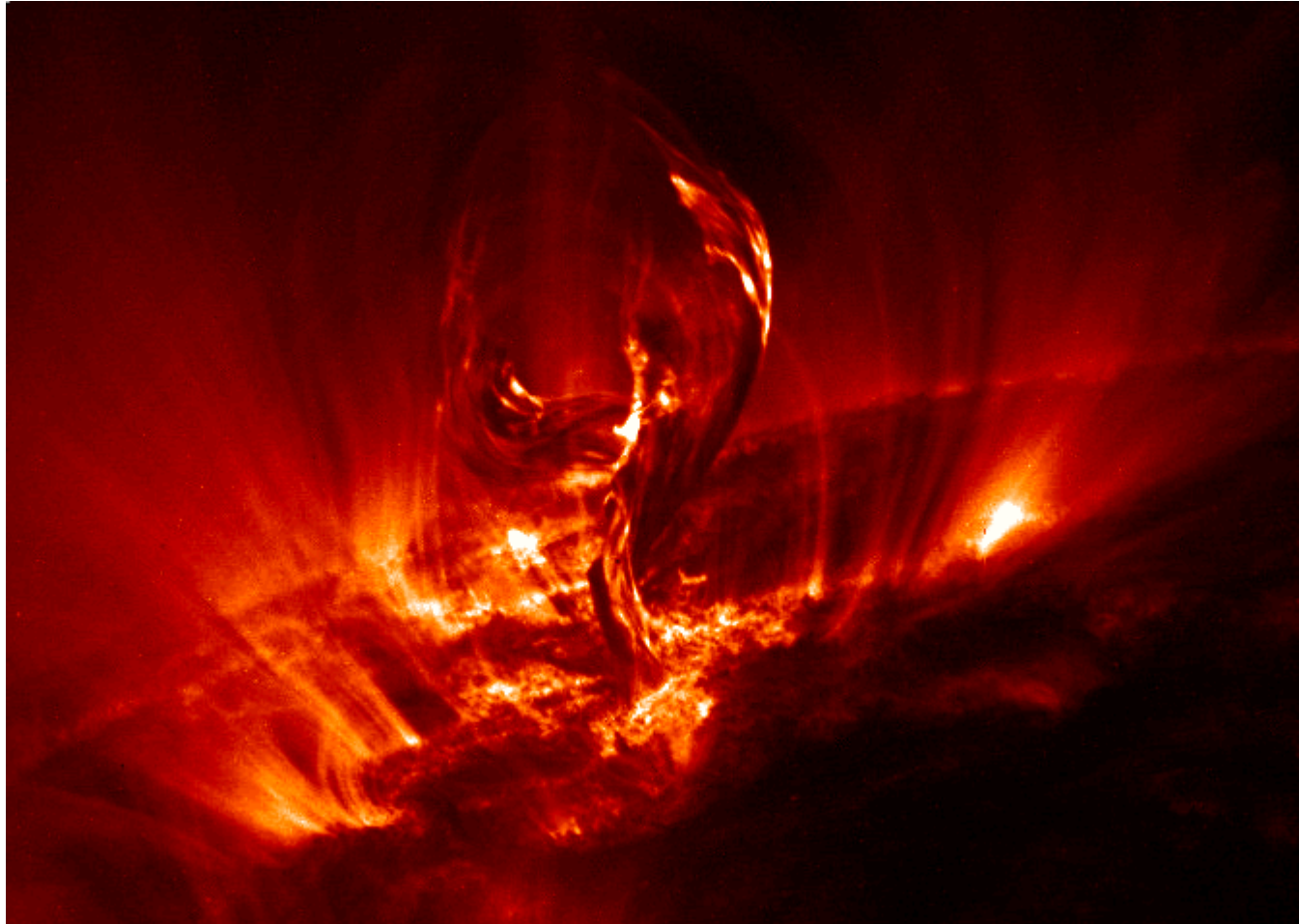
# Flare en la fotosfera solar

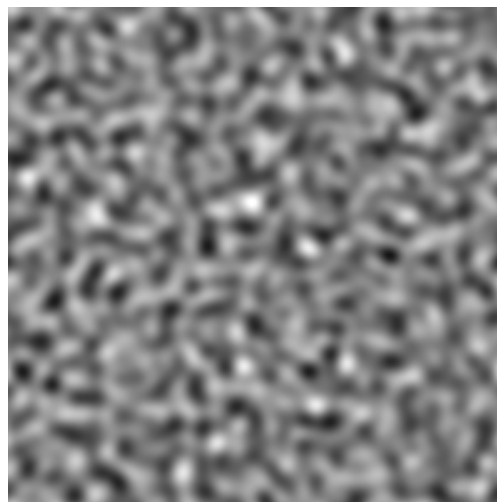
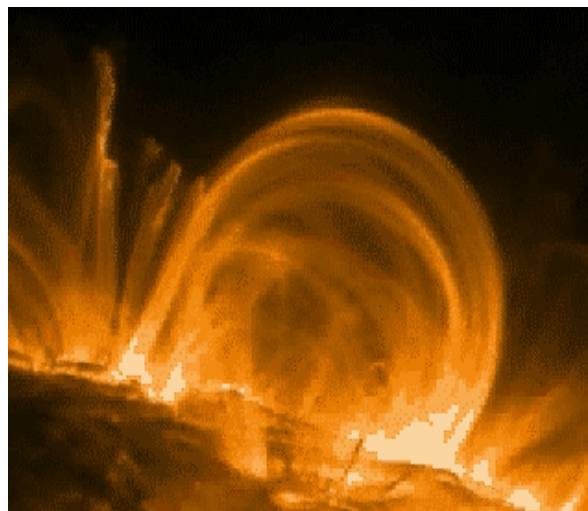


# Flare y tsunami en la fotosfera solar

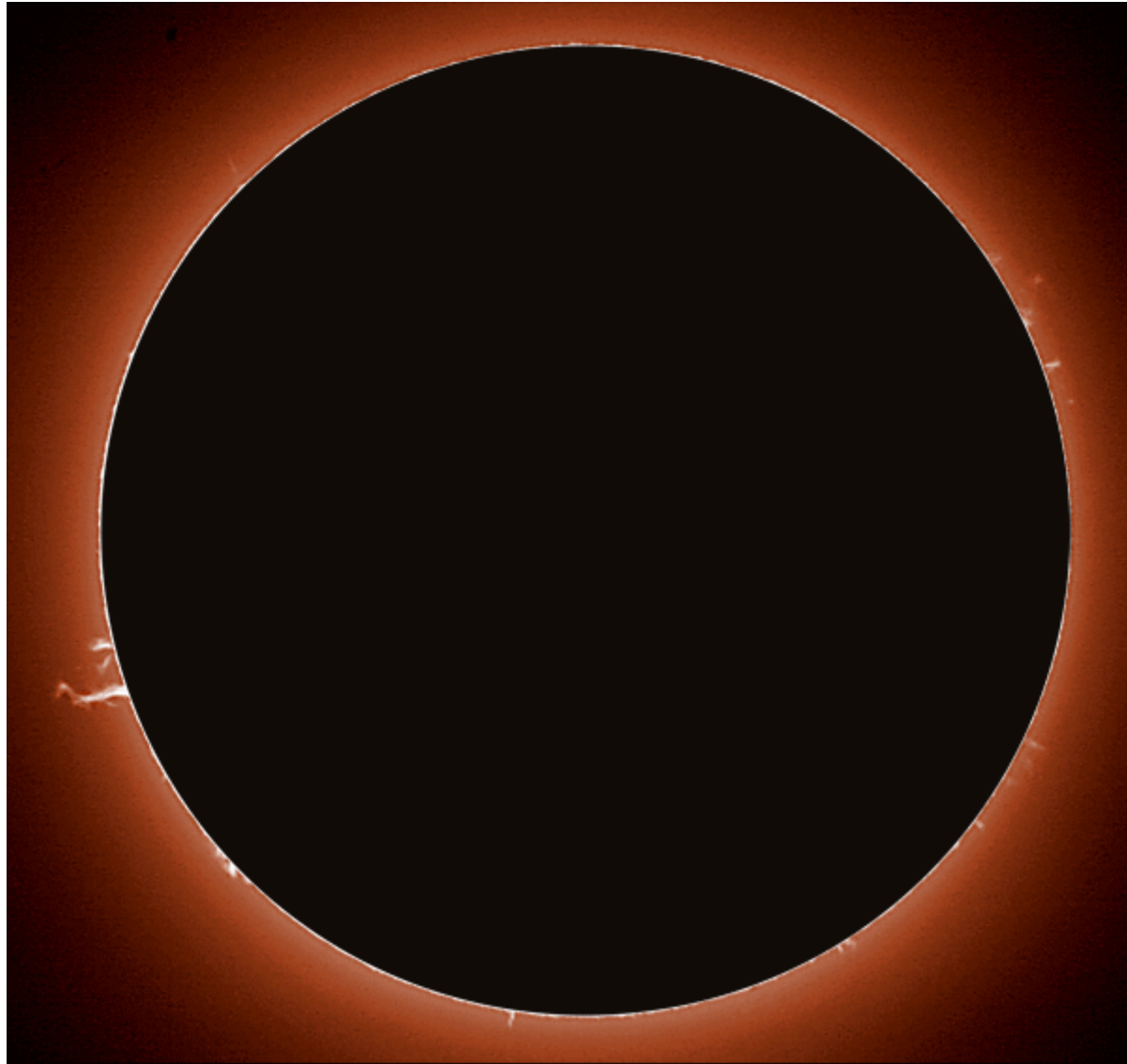


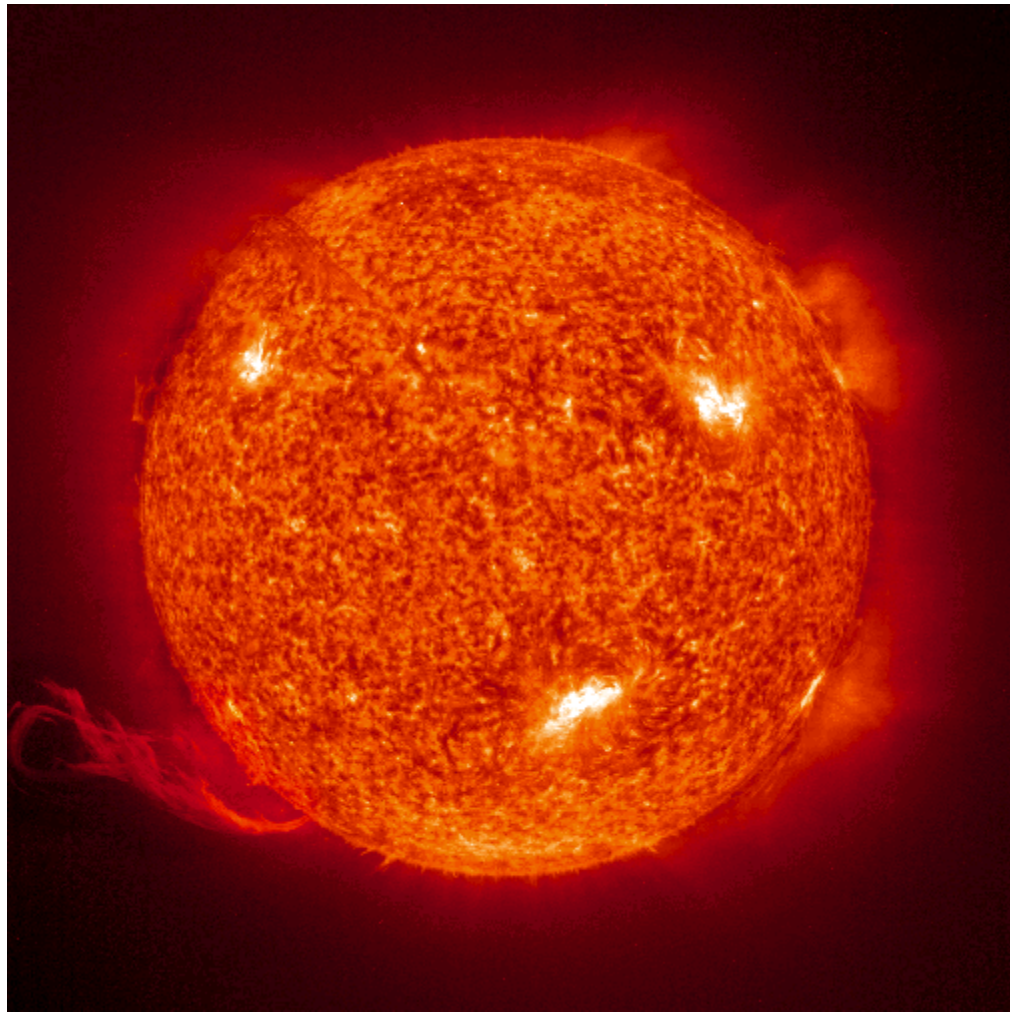
# Prominencia en la fotosfera solar



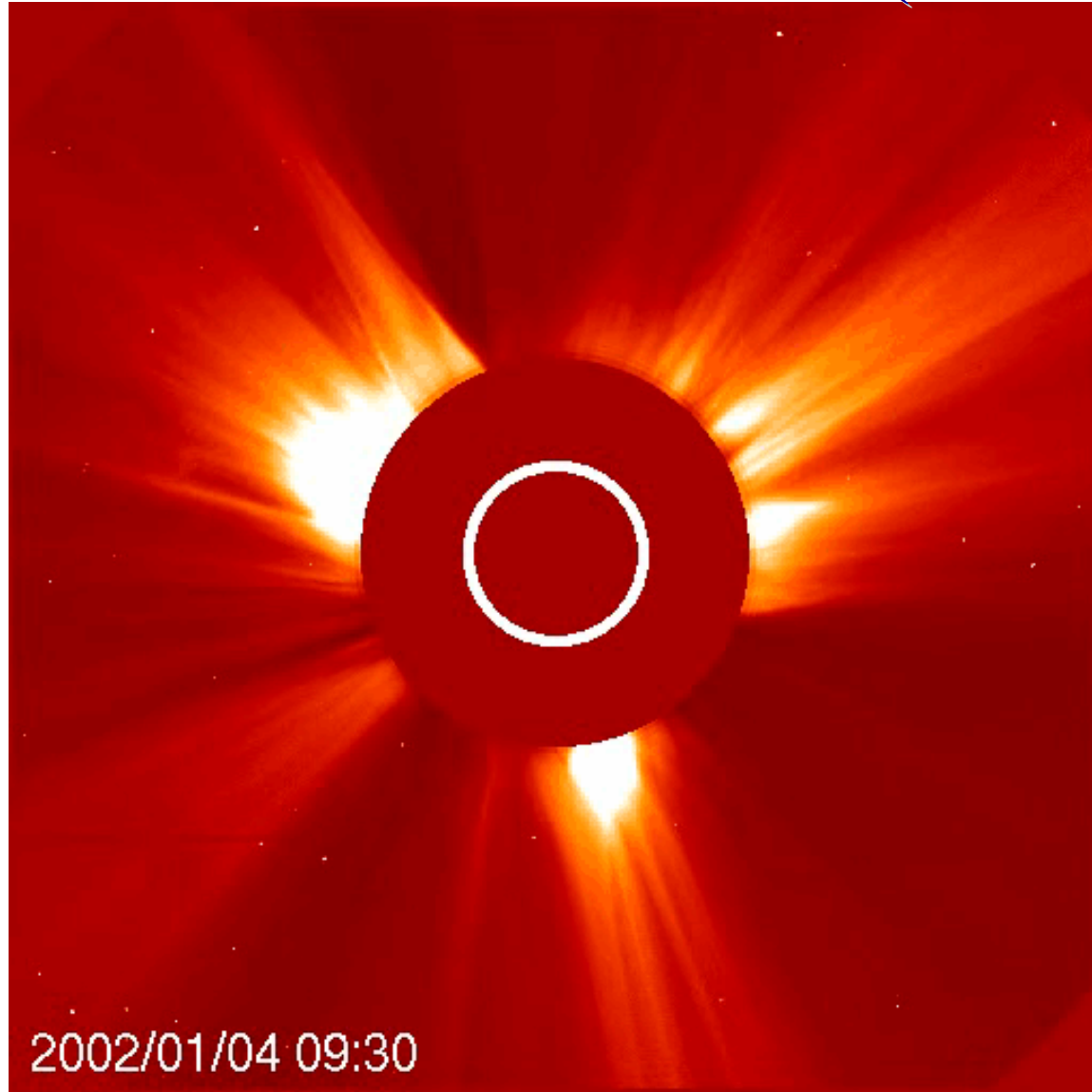


# Prominencias en la fotosfera solar

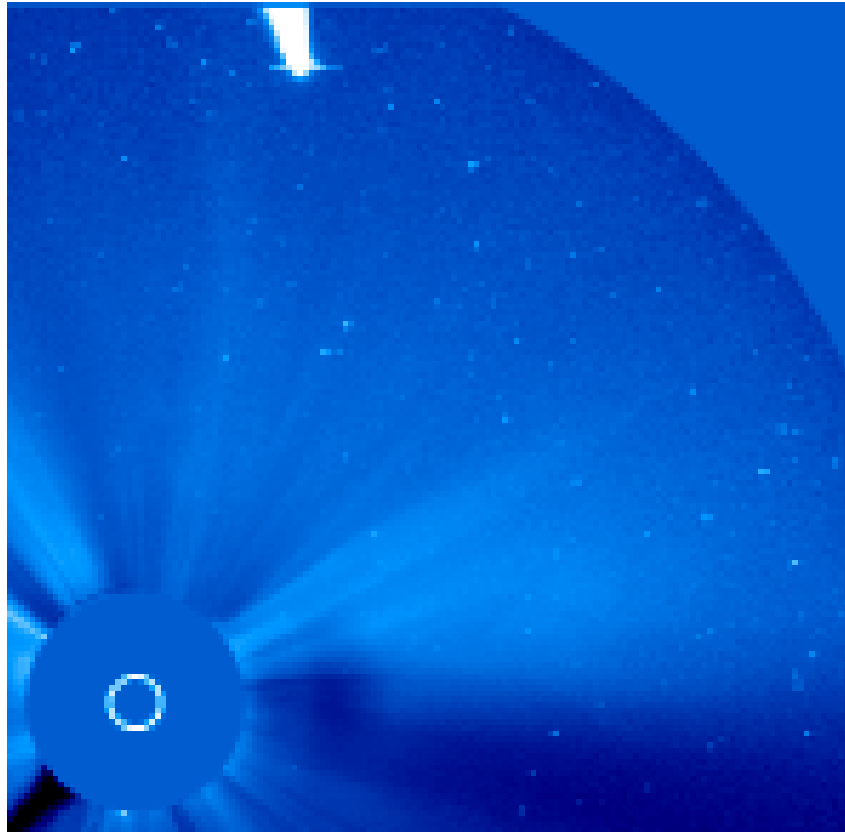




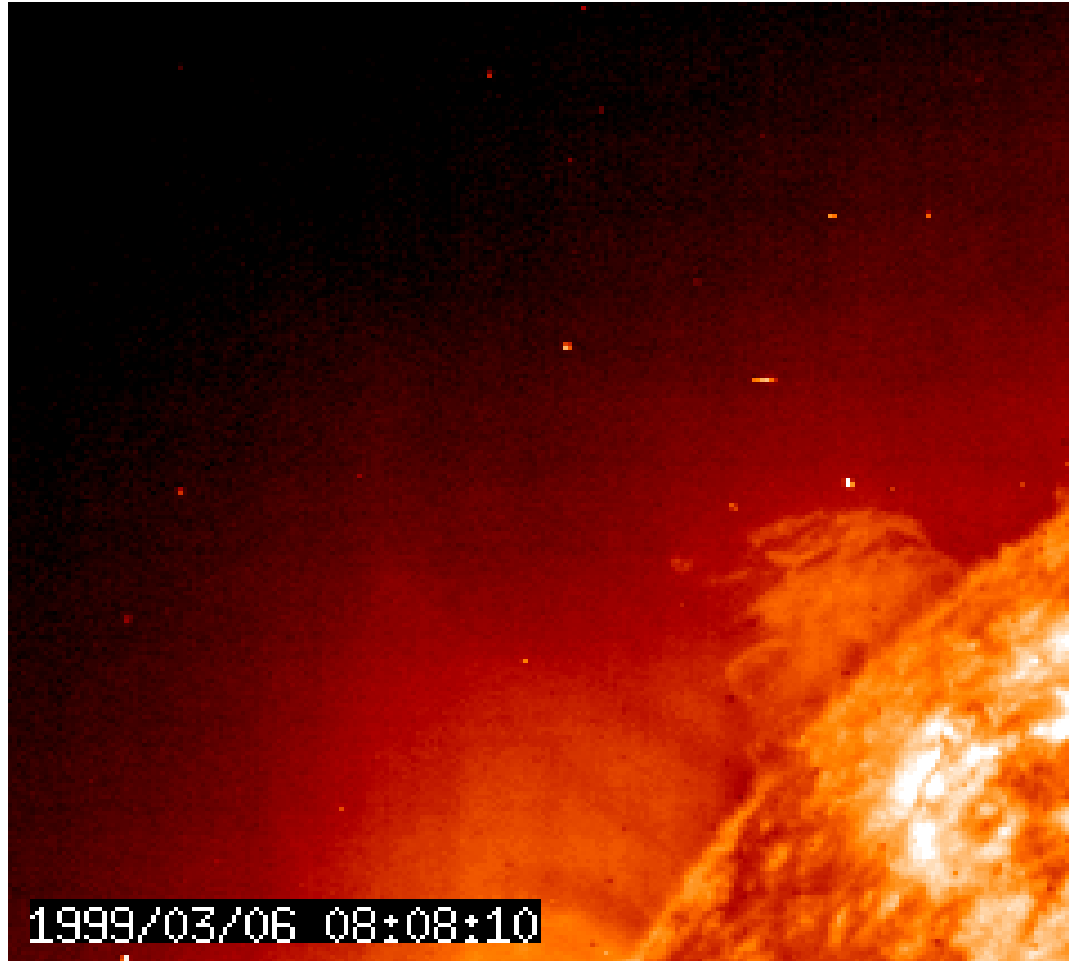
# Eyección de masa coronal (CME)



# Eyección de masa coronal (CME)



# Eyección de masa coronal (CME)



# Rotación solar en rayos X

