Sunspots: Dark, cooler spots 11 Year cycle of "maximum" The Solar Cycle on sun - caused by Magnetism and "minimum" Can use to track Sun's rotation 3/26/01 3/27/01 3/28/01 3/29/01 3/31/01 4/01/01 3/30/01 4/02/01 28 days at equator 36 days near poles Approximate size of Earth —▶ø March 30, 2001 Magnetic field line **Differential Rotation** causes Equator Magnetic Field to get wound up and Differential Leads to rotation chaotic Flares and **Ejections**