

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-07736, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-07736
EGU General Assembly 2008
© Author(s) 2008



Global Oscillations Excited by Solar Flares

C. Karoff, H. Kjeldsen

Department of Physics and Astronomy, University of Aarhus, DK 8000 Aarhus C, Denmark
(karoff@phys.au.dk)

Using full-disk photometry of the Sun from the VIRGO instrument on SOHO we have found a strong correlation between the energy at high frequency in the solar acoustic spectrum and solar flares. This means that the flares drive global oscillations in the Sun in the same way that large earthquakes drives free oscillations in the Earth. This result goes some way towards resolving the two-decades old problem of understanding the source of the high-frequency waves in the Sun.