

## Precision Solar Photometric Telescopes PSPT network Roma, Hawaï, Sacramento Peak



## CaII K line, 410 nm and 608 nm continuum, G band



### Global H alpha network

### Headed by Big Bear Solar Observatory







Learmonth (le) The Learmonth instrument is operational, and the sky is clear.



lebga120329t0134.jpg leiqa120329t0134.jpg Mauna Loa (ml) The Mauna Loa instrument is operational, and the sky is clear.

mlbqa120329t0354.jpg mliqa120329t0354.jpg

GONG dopplergrams and magnetograms

Teide (td) The El Teide instrument is operational, and the sky is clear.



tdbga120328t1834.jpg tdiga120328t1834.jpg

Udaipur (ud) The Udaipur instrument is operational, and the sky is partly cloudy.





udbga120329t0514.jpg udiga120329t0524.jpg





## SOHO EIT/EUV images and C2/C3 coronal images









SDO FeI 6173 magnetograms (HMI), visible continuum and EUV images (AIA), 4096 x 4096 pixel 0.5 '', good temp. res.



## **SPACE WEATHER PICARD**

Images usefull for space weather purpose: CaII K (chromosphere, active regions, sunspots, plages)



Originality : no ground based equivalent network in CaII K

#### Requirements

- good temporal resolution (1 image/ min)

 $\rightarrow$  binning 2x2 + fast download to the earth (< 1 hour)

Space Weather activities not fully convincing (many other ground based or space instruments, download time, time resolution)

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Reaching secondary objectives seems to be a more interesting goal



# Velocity divergences at 535 nm, $\Delta t = 3mn$ B// from SDO/HMI







'HMI Quick Look Magnelograms 20120223\_024500

