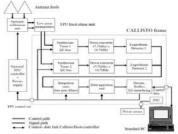
ABSTRACT

Daily solar flare spectral observations, from 45 to 870 MHz, are carried out by the Mauritius CALLISTO. Spectrometer since the 27th April 2009. This instrument is located at the Mauritius Radio Telescope site in Bras d' Eau. On 20th May 2011 another spectrometer was connected to a second log periodic antenna, to monitor the radio Sun. In both U – V planes. A selection of the notable flares are presented here. On 24th February 2011, at 0735 UT, a M3-class solar flare erupted. On 7th June 2011,, an M2class solar flare was emitted at 0620 UT, and a S1-class geomagnetic storm ensued. At 0357 UT on August 4th we registered a M9.3 flare. On August 9th at 0805 UT, sunspot 1263 produced an X7-class solar flare; the third, and strongest so far, X-flare of the present Solar Cycle 24. The structure of all the flares, compared with results from other observatories is depicted here. As we head into the maxima of the solar cycle, these observations can guide us in better understanding solar triggered events in

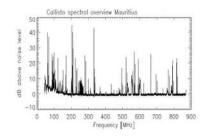




(below TOBLERONE' chocolate) power supplies just behind the monitor with keyboard and PC on the right.

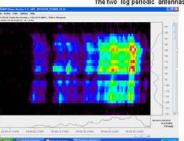


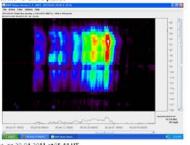
THE CALLISTO HARDWARE SIGNAL PATH





The two log periodic antennas in the U and V planes



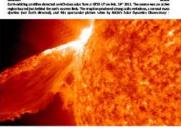


Type 3 flares in U (left) and V (right) planes on 20-04-2011 at 05 44 UT

UNIVERSITY OF MAURITIUS MAURITIUS RADIO TELESCOPE (F O S)

RECENT OBSERVATIONS USING THE MAURITIUS CALLISTO SPECTROMETER

Girish Kumar Beeharry, Head MRT Gauribidanur Naranappa Rajasekhara, Expert Observer MRT



M3-CLASS FLARE 24-02-2011 AT 07-35 UT (SOHO)



RADIATION STORM ON 07-08-2011 AT 06 41 UT (SOHO)



Circulated in

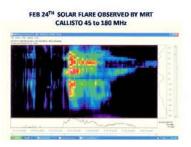
Volume 3, Number 78,

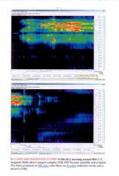
M9.3-CLASS FLARE ON 04-08-2011 AT 03 58 UT

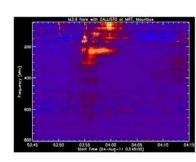


X7-CLASS FLARE, THE STRONGEST SO FAR IN PRESENT SOLAR CYCLE ON 09-08-2011 AT 08 05 UT(SDO)

Above images are from the SOlar and Heliospheric Observatory & the Solar Dynamics Observatory in space

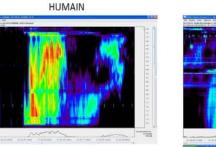






SOLAR FLARE ON 09-08-2011. AT 08-05 UT IN RADIO SPECTRUM FROM 45MHz TO 650MH OBSERVED THROUGH MALIRITIUS CALLISTO SPECTROMETER

Above spectrograms are from the Mauritius CALLISTOs



BLEN7M 175 to 870 MHz



24-02-2011 flares from the log periodic tracking Humain (Belgium) and the 7 m dish Bleien (Switzerland) CALLISTOs







