Appendix K
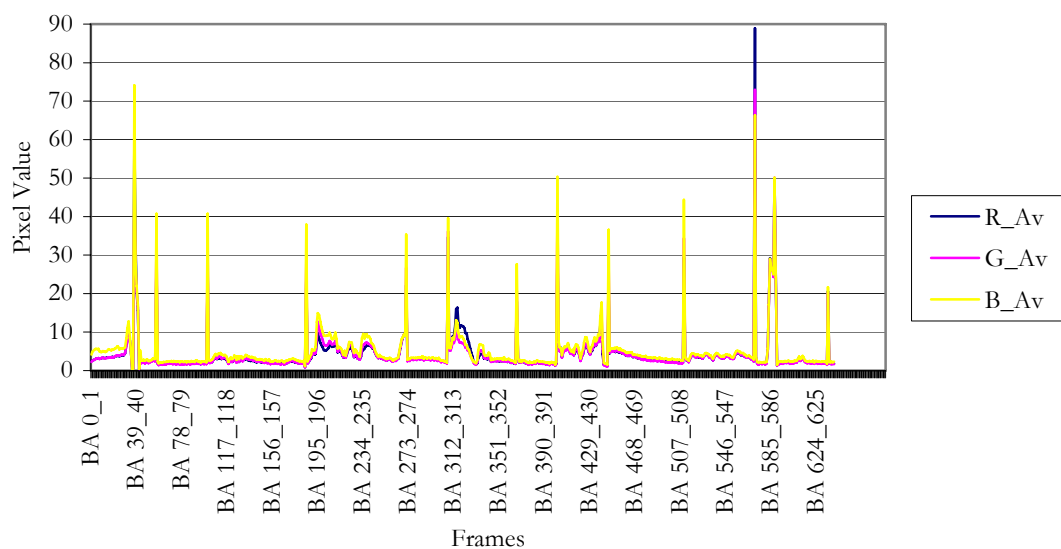
Movement Detection

The value of pixels was used in our work to represent information concerning the difference between two frames, i.e. the movement. As pixels have a red, green and blue value that lies between 0 (black) and 255 (white), a change in the distribution of pixel values represents a change in the colours used in the video frame. A change over time can be observed by considering the variation in the average pixel value for each video frame. Although rudimentary, analysis of multiple factors provides a good idea of the video contents. The following analysis of pixel values shows the average difference pixel values, which represent the level of difference between two video frame, i.e. the movement (a pixel value moving towards 255, suggests a greater level of movement).
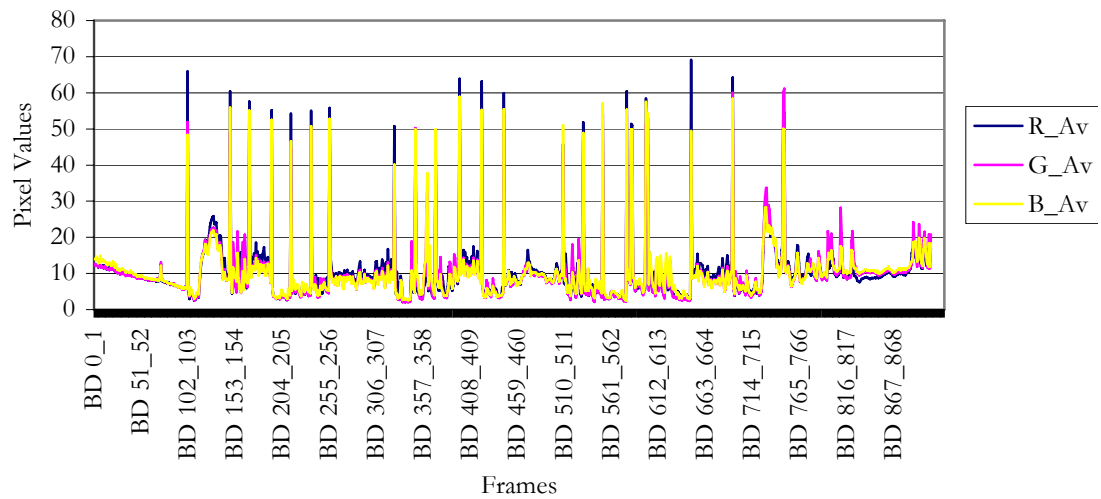
BA – BATH COMMERCIAL

Movement RGB Average Frame Values - BA

BA: The average difference in pixel values – for all frames. (in pixel value)
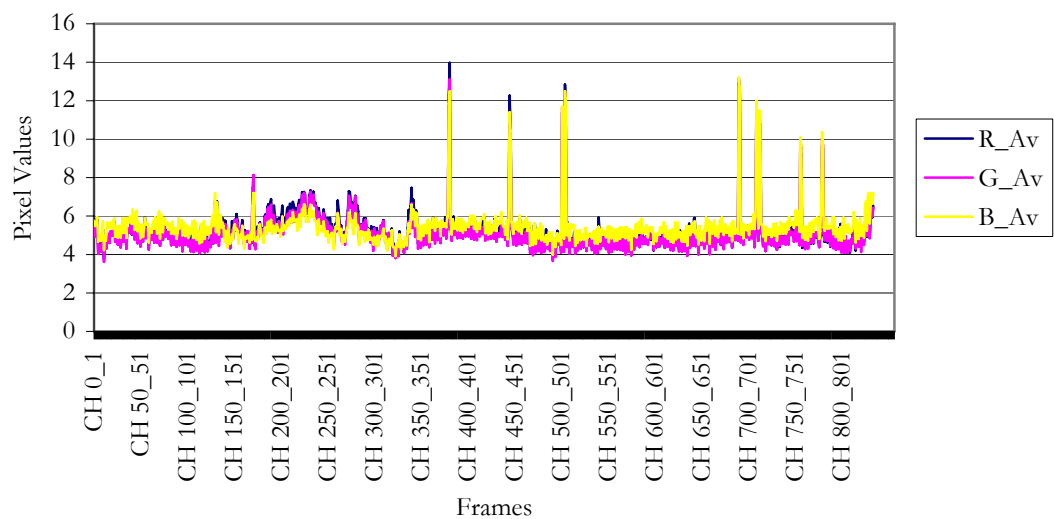
BD – BAND

Movement RGB Average Frame Values - BD

BD: The average difference in pixel values – for all frames. (in pixel value)
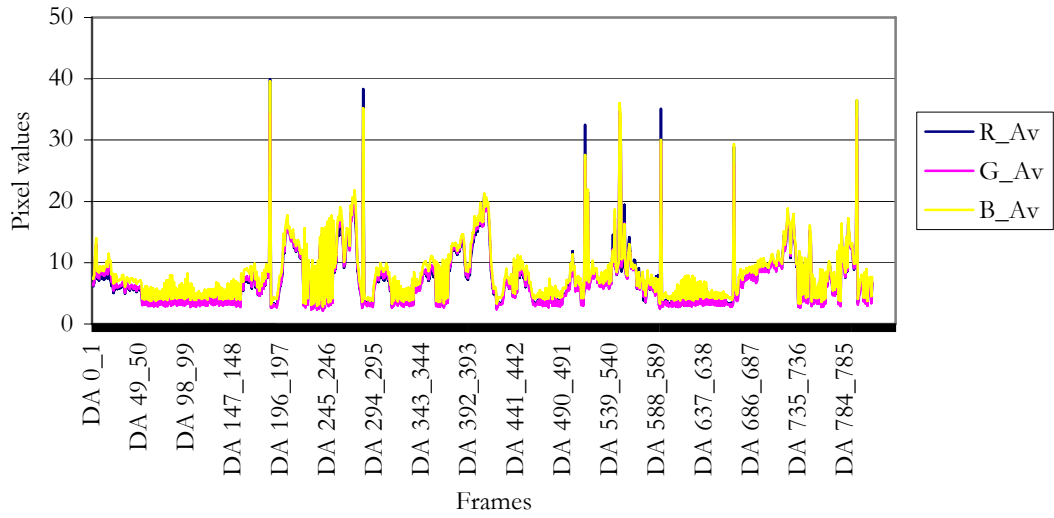
CH – CHORUS

Movement RGB Average Frame Values - CH

CH: The average difference in pixel values – for all frames. (in pixel value)
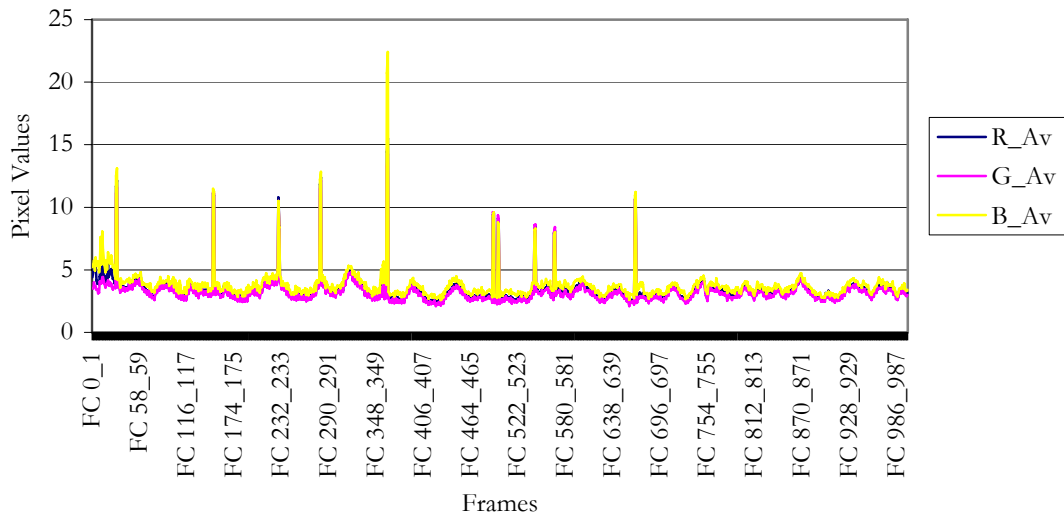
DA – ANIMATION

Movement RGB Average Frame Values - DC

DA: The average difference in pixel values – for all frames. (in pixel value)
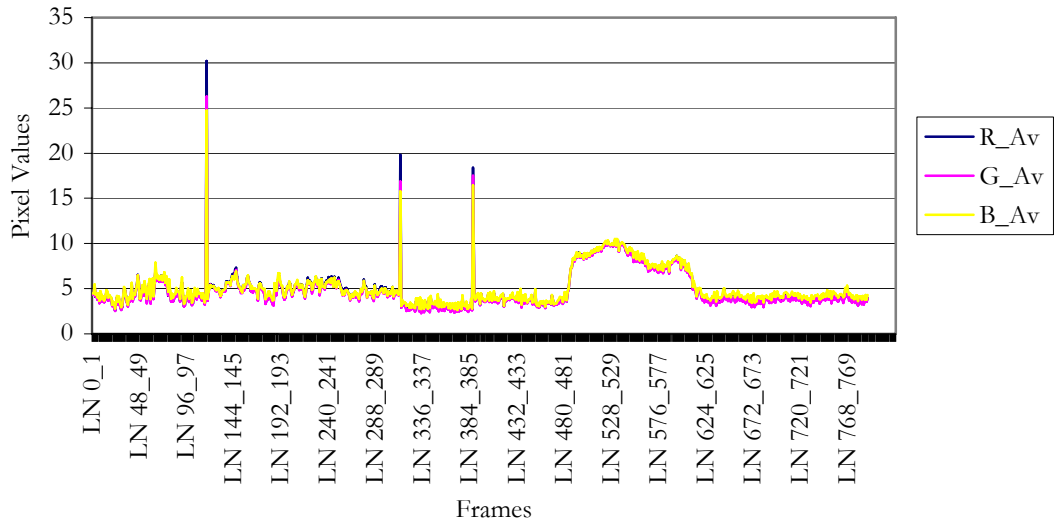
FC – WEATHER FORECAST

Movement RGB Average Frame Values - FC

FC: The average difference in pixel values – for all frames. (in pixel value)
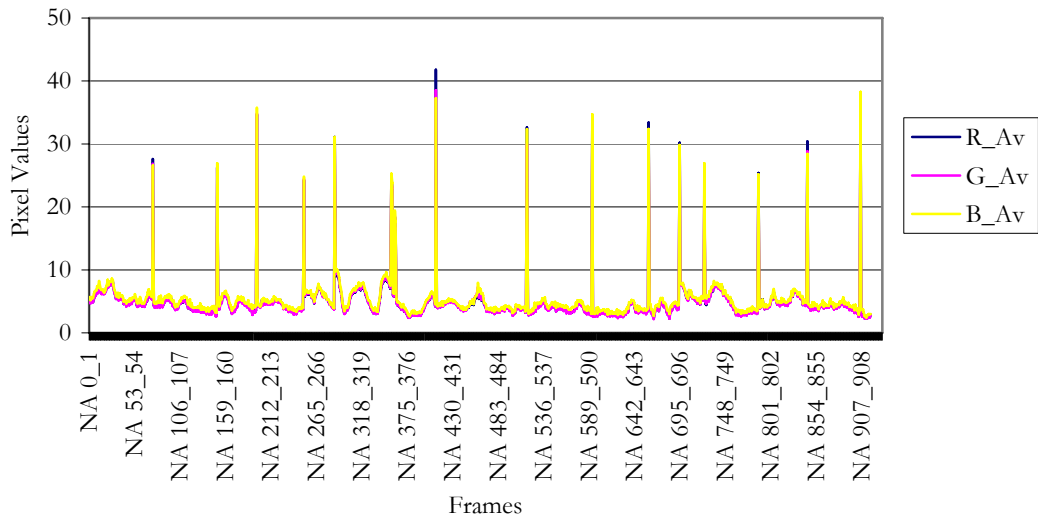
LN – INDIAN LIONS

Movement RGB Average Frame Values - LC

LN: The average difference in pixel values – for all frames. (in pixel value)
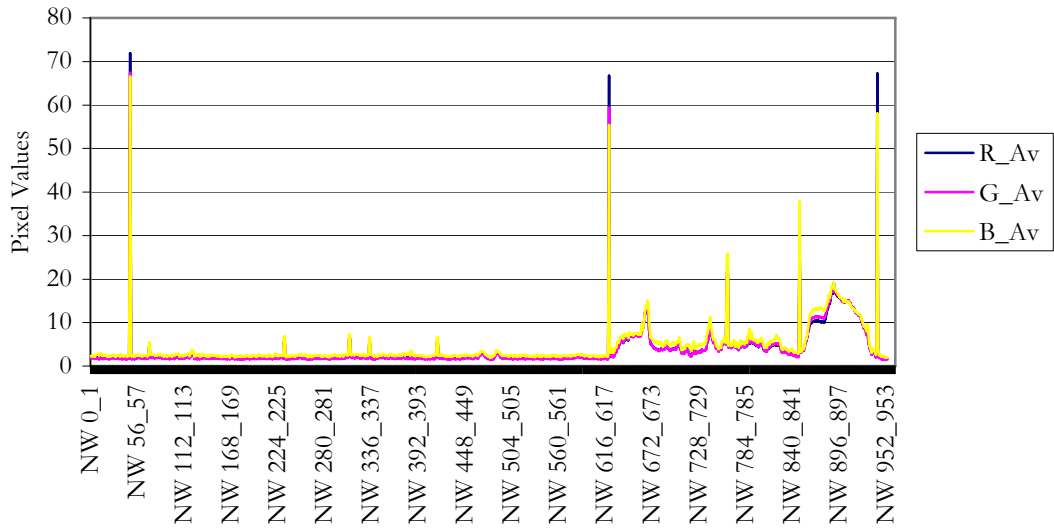
NA – NATALIE'S POP VIDEO

Movement RGB Average Frame Values - NA

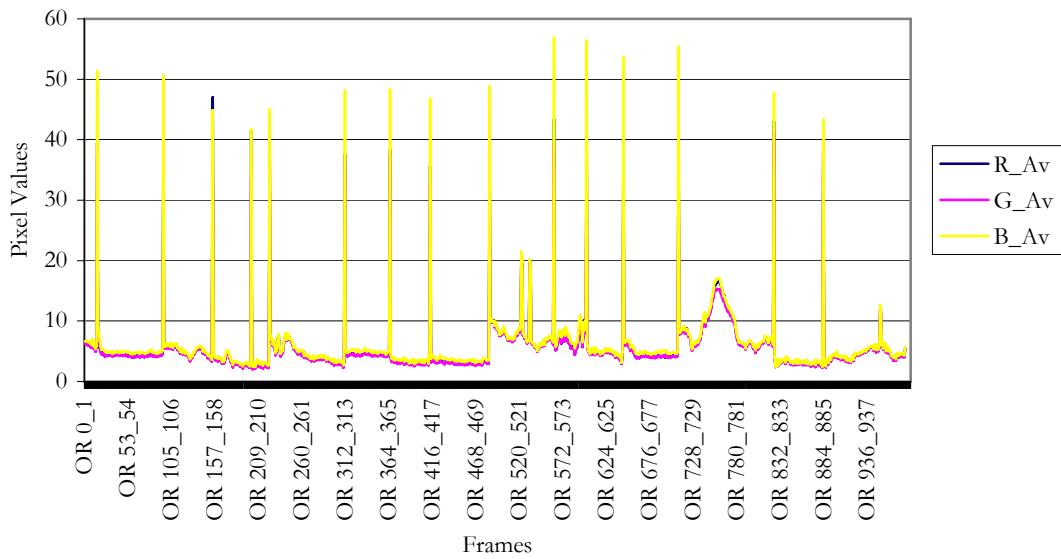NA: The average difference in pixel values – for all frames. (in pixel value)

NW – NEWS

Movement RGB Average Frame Values - NW

NW: The average difference in pixel values – for all frames. (in pixel value)
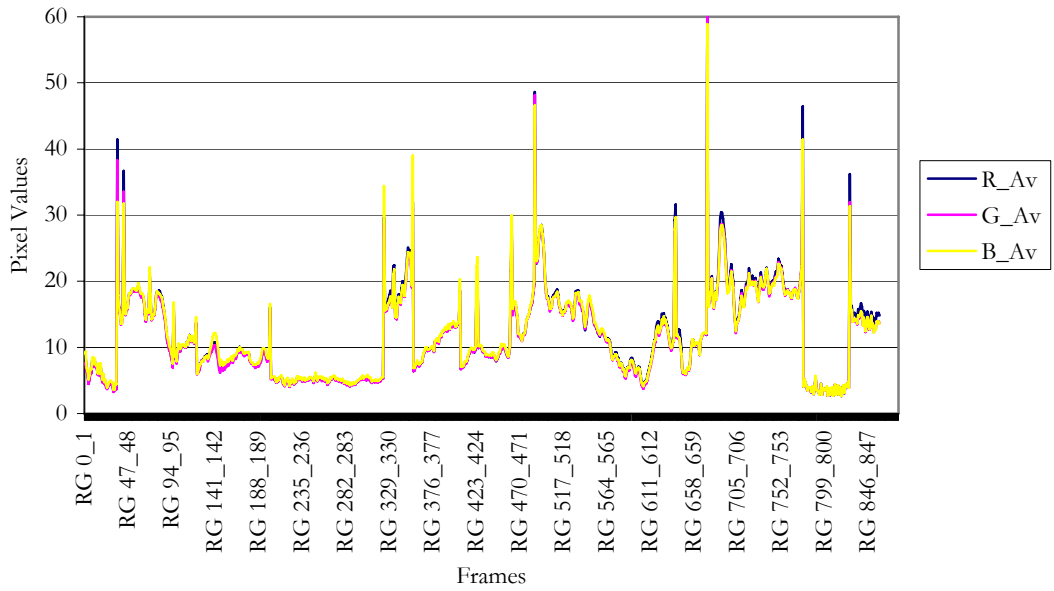
OR – OREGANO COOKING

Movement RGB Average Frame Values - OR

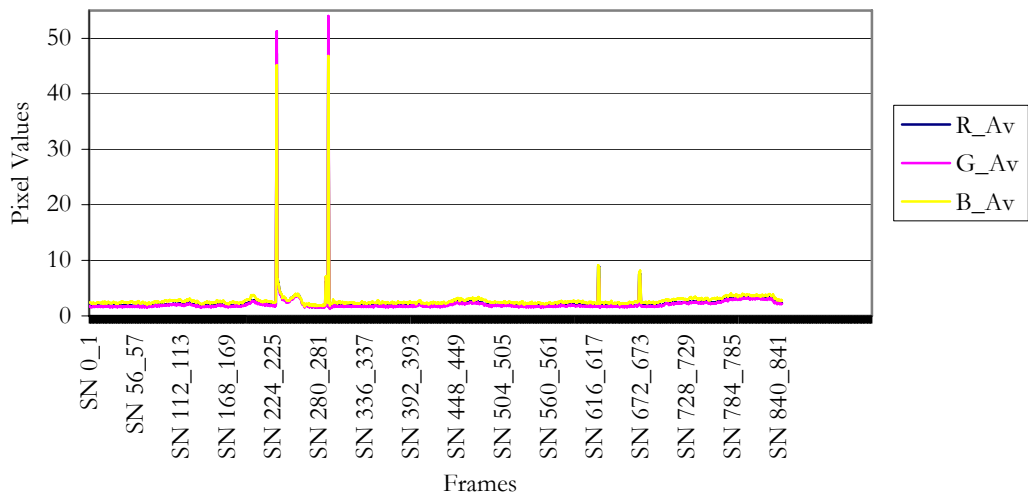OR: The average difference in pixel values – for all frames. (in pixel value)

RG – RUGBY

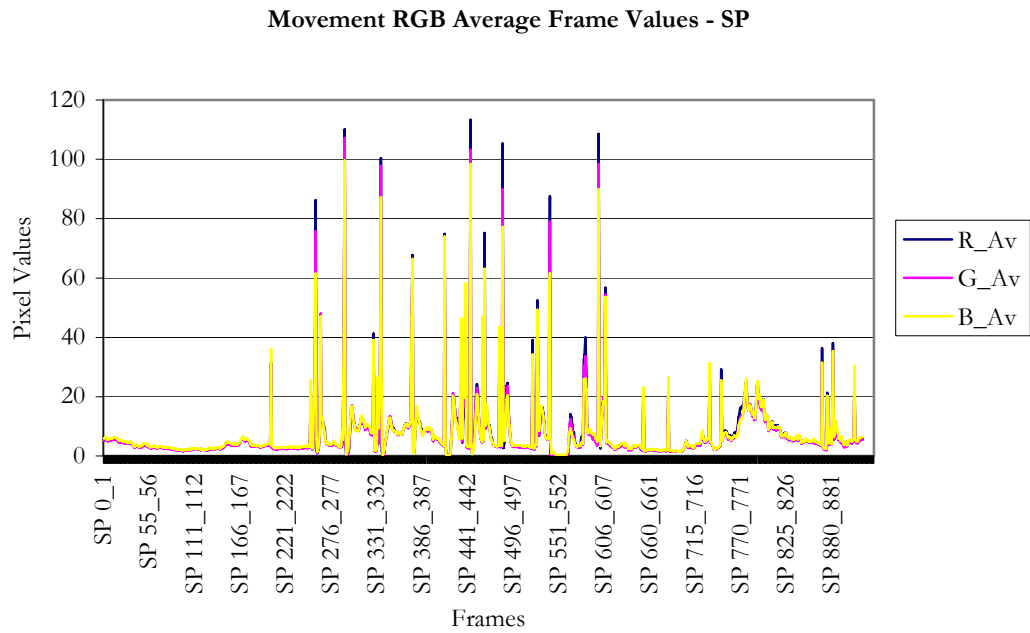**Movement RGB Average Frame Values - RG**

RG: The average difference in pixel values – for all frames. (in pixel value)

SN – SNOOKER

Movement RGB Average Frame Values - SN

SN: The average difference in pixel values – for all frames. (in pixel value)

SP – SPACE

Movement RGB Average Frame Values - SP

SP: The average difference in pixel values – for all frames. (in pixel value)