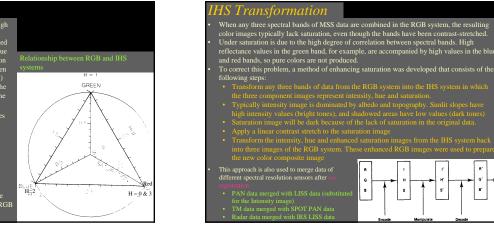
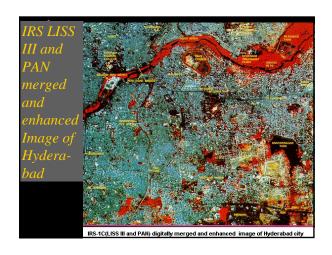
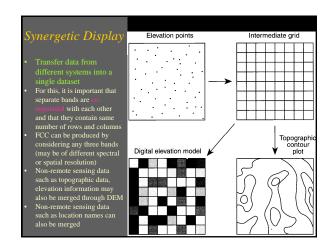


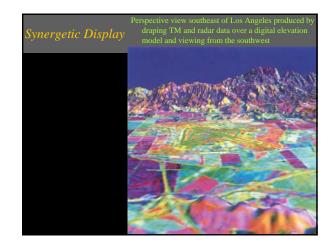
HS Transformation Circle represents a horizontal section through the equatorial plane of the IHS sphere Corners of the equilateral triangle are located at the position of the red, green, and blue hue Hue changes in a counterclockwise direction around the triangle, from red (H=0), to green (H=1) to blue (H=2) and again to red (H=3) Values of saturation are 0 at the center of the triangle and increase to maximum of 1 at the corners GREEN through the following transformations (Short and Stuart, 1982). $H = \frac{G - B}{I}$ $\overline{I-3B}$ $S = \frac{1}{I}$ These values can be mapped to 0-255 range Inverse equations may be used for IHS to RGB H=2 H = 0 &



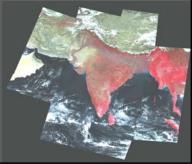








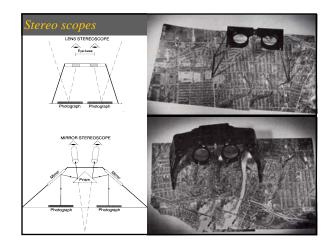
Mosaic of images captured by the Ocean Colour Monitor (OCM) onboard the IRS-P4 (Oceansat)



- GCPs may be used to register satellite images to other digitized data sets such as topographic maps with elevation details

 This registration causes, elevation value to be associated with each image
- Each pixel in a scan line can be displaced relative to the central pixel of
- Pixels to the west of the central pixel are displaced westward by an amount that is determined by the elevation of the pixel and by its distance from the central pixel. Same procedure determines eastward displacement

- of pixels east of the central pixel. Stalle procedure determines cast water pixels of pixels east of the central pixel. Resulting image simulates the parallax of an aerial photograph Principal point is then shifted and a second image is generated with the parallax characteristics of the overlapping image of stereo pair This stereo pair can be viewed with a stereoscope to appreciate the three dimensional effect of vertical exaggeration.





- Vertical exaggeration can be increased
- Entire image can be viewed stereoscopically (by shifting reference points)

- If an image contains cloud cover in a portion but that imagery can be acquired everyday like in the case of NOAA AVHRR a time composite imagery can be produced without cloud cover
- Co-register images acquired over number of days (say 15 days)
 Area with cloud cover is identified from the first imagery and is replaced by the next imagery of the same area.
 Cloud cover (if any) from this composite imagery is replaced
- with the third imagery.
- This procedure is repeated 15 times (say over 15 days
- Composite imagery is used for further analysis
 NRSC used such time composited imageries of NOAA
 AVHRR over 15 days for Agricultural drought assessment and