

Image Enhancement

There is no single enhancement procedure which is best Best one is that which best displays the features of interest to the Analyst

- Enhancement Procedures
- Contrast stretching
- Density slicing
- ThresholdingFiltering techniques
- Edge enhancement
- Intensity, Hue, Saturation (IHS) images
- Time composite images
- Synergetic images
- Non-image datasets

Contrast
StretchingTM B5 image
Image is very dark
Low contrast
Sensor calibrationImage is very dark
Low contrast
Sensor calibrationImage is very dark
Unstretched dataImage is very dark
Unstretched dataImage











Non-linear • Logarithmic Stretch • Power-law Stretch • Gaussian Stretch • Gaussian Stretch • Log stretch is greater for the low digital numbers (5 and 10) than for the high digital numbers (220 and 225). It preferentially screeches the dark parts of the scene • Power-law stretch has the opposite effect. It will preferentially stretch the brighter parts of the scene			and 225). scene will
DN	log DN	DN ³	
5	0.699	125	
10	1.0	1,000	
Difference	0.301	875	
220	2.342	1.06×10^{7}	
225	2.352	1.14×10^{7}	
Difference	0.01	7.4 × 10 ⁵	

































