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THE USES OF COLOR IN AERIAL RECONNAISSANCE

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THE USES OF COLOR IN AERIAL RECONNAISSANCE

Color films of high fidelity or of known color imbalance, so that actual colors can be determined, are useful for a number of reconnaissance applications. Among those in which color has been successfully employed are the following:

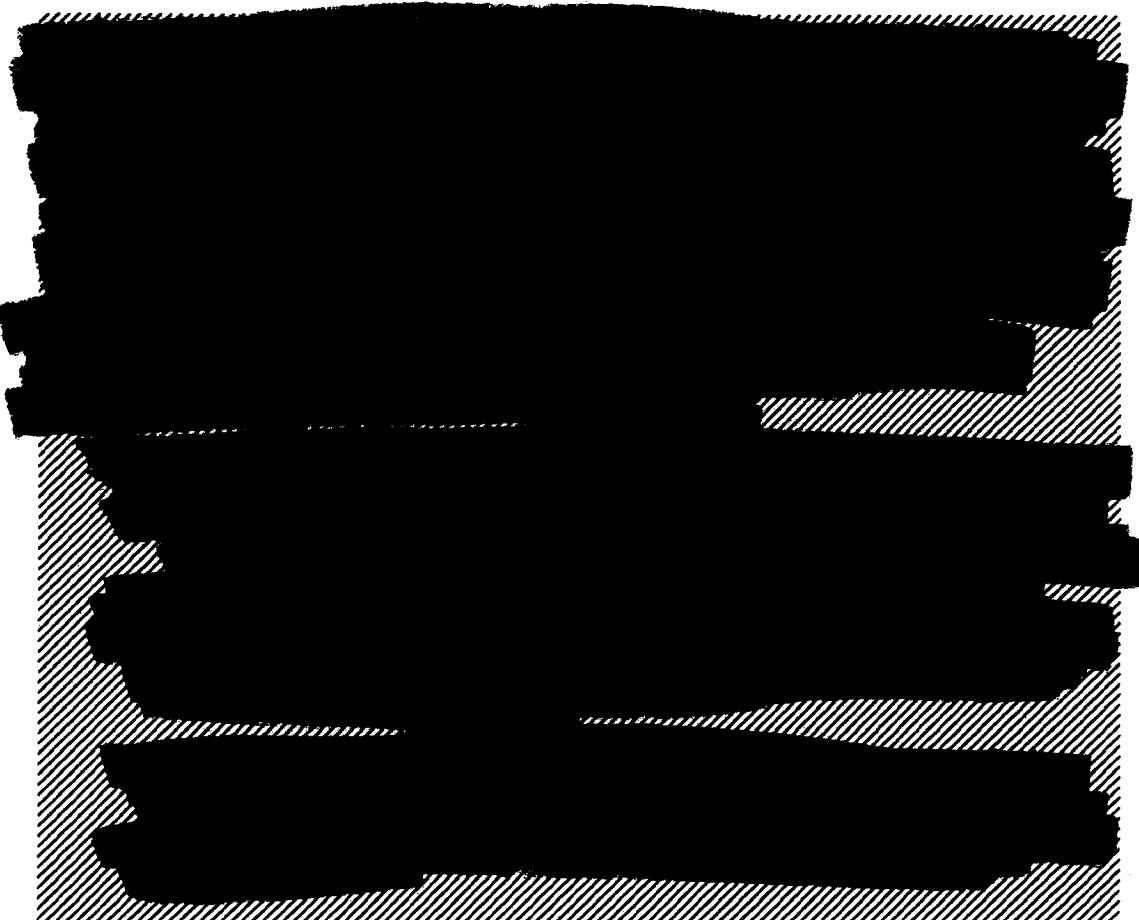
1. Underwater depth determination at beaches.
2. Classification of raw material stockpiles (ores, coal, limestone, etc.)
3. Classification of vegetation to establish soil condition, drainage, load bearing characteristics, trafficability, etc.
4. Identification of chemical process plants by smoke and/or effluent liquid color.
5. Crop yield estimates by foliage color at appropriate times in the growth cycle.

In addition, a very specialized form of color material has had



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CONCLUSIONS:

1. Color films are not of value in this situation.
  
2. Panchromatic-near infrared simultaneous exposures may prove useful. However, considerable additional optical and camera complication is necessary, and the panchromatic image, by virtue of light losses and image degradations introduced by the beam-splitter will not be as good as if no attempt were made to make the infrared exposure. The technique is equally applicable to readout and recovery systems.

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