

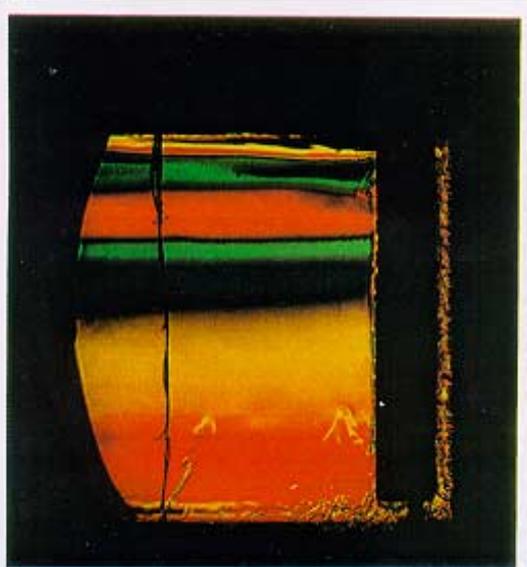


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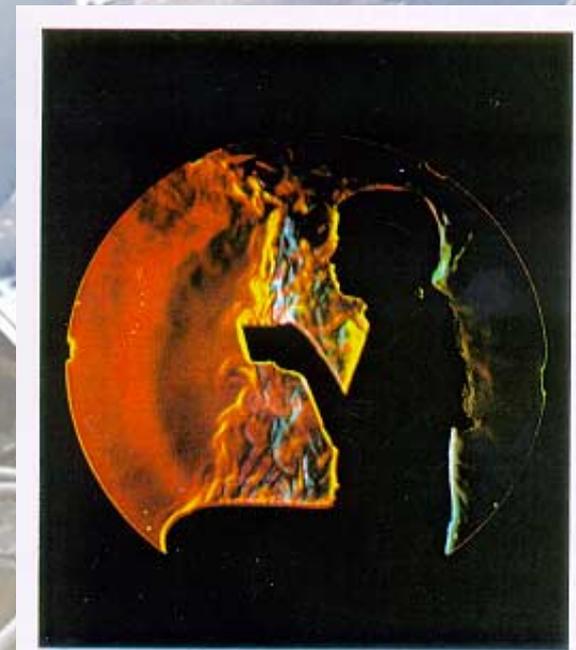
# Effects of Buoyancy on Earth

**Thermal Stratification –  
warm air has risen to ceiling**



*Plate 5 Thermal stratification in solar-heated room model*

**Convective flow due to hot air  
(from the person and tea) being  
below or next to colder room air**



*Plate 6 Free convection generated by the human body*

**Images via Rainbow Schlieren Deflectometry**

**Colors illuminate refractive index gradient, i.e. for  
this case, analogous to a variation in air density  
(reproduced from G. Settles's RSD article)**