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Principles of remote sensing of atmospheric parameters from space February 1998. By R. Rizzi and updated by R. Saunders. European Centre for Medium-Range Weather Forecasts, Shineld Park, Reading RG2 9AX, U.K.Â ber (or wavelength) in the infrared or microwave regions where an atmospheric constituent absorbs radiation, it also emits thermal radiation according to Kirchhoff's Law. Since the radiance leaving the atmosphere is a function of the distribution of the emitting gases and of temperature throughout the atmosphere, measurements of radiance contain some information on both these quantities. CHAPTER 11: 11 Remote Sensing of Vegetation g REFERENCE: Remote Sensing of the Environment John R. Jensen (2007) Second Edition Pearson Prentice Hall THE EARTH'S SURFACE The earth's surface. This is a composite of numerous satellite images, each selected to be cloud-free.Â But this beautiful image lets us view the entire surface at once.Â Water Content Airborne Visible Infrared Imaging Spectrometer (AVIRIS) Datacube of Sullivanâ€™s Island Obtained on October 26, 1998 9 Imaging Spectrometer Data of Healthy Green Vegetation in the San Luis Valley of Colorado Obtained on September 3, 1993 Using AVIRIS 224 channels each 10 nm wide with 20 x 20 m pixels Hyperspectral Analysis of AVIRIS Data Obtained on September 3, 1993 of. REFERENCES Abrams, M., 2000. The Advanced Thermal Emission and Reflection Radiometer (ASTER): data products for the high spatial resolution imager on NASA's Terra platform. International Journal of Remote Sensing, 21(5), pp. 847-859. Adams, J.B. and Gillespie, A.R., 2006.Â The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. XXXVII.