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COVER

Neutral sodium cloud which accompanies Jupiter's satellite Io is shown at six different orbital phases. These images of the cloud were acquired by Earth-based observations and are shown to scale with Jupiter. Location and size of Io are indicated by the dot within the crossbars; its orbit is indicated by the dashed ellipse. Changes in the cloud's apparent size and shape are largely the result of viewing perspective. See page 512. [B. A. Goldberg, G. W. Garneau, and S. K. LaVoie, Jet Propulsion Laboratory, Pasadena, California 91109] (Time-lapse movie version of the sodium cloud movements will be shown this winter at the National Air and Space Museum, Washington, D.C.)