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**COVER**

Computer image illustrates new concept for vertical transport by thin random turbulent layers in stable fluids. The volcano (background) symbolizes the injection of foreign matter in the stratosphere which will subsequently be vertically transported, in part, by this mechanism. See page 1041. [Artwork: Gene Pepin (Graphics Department, Air Force Geophysics Laboratory, Hanscom Air Force Base, Massachusetts) and Brian Dewan (Lexington High School, Lexington, Massachusetts); photography: Patrick J. Windward (Photo Laboratory, Air Force Geophysics Laboratory)]