Cloud tracking method for the Venus satellite Akatsuki

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We present the novel cloud tracking method developed to estimate horizontal winds from the images obtained by the Venus orbiter Akatsuki. The method is derived from a general consideration, and it is expected to have broad application. This presentation is based on the following papers:

Ikegawa, S., and T. Horinouchi (2016) Improved automatic estimation of winds at the cloud top of Venus using superposition of cross-correlation surfaces. Icarus, 271, 98-119.

Horinouchi, T., S. Murakami T. Kouyama, K. Ogohara, A. Yamazaki, M. Yamada, and S. Watanabe, Image velocimetry for clouds with relaxation labeling based on deformation consistency. Measurement Science and Technology, submitted.

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