

## The improvement for more precise earthquake location determined by Japan Meteorological Agency (Part1)

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The earthquake detection capability and the earthquake location precision are much improved after JMA imported seismic data provided by the other organization in hypocenter determination since October 1997. The new situation stimulated us to reconsider the velocity structure of shallow depth and data weight function for better hypocenter determination. As a first step, we tried to modify the shallow velocity structure by analyzing many recent explosion observation data and data weight as a function of hypocentral distance and focal depth. A preliminary result shows that more reliable hypocenters with reasonable focal depth are obtained using modified velocity structure and modified weight function.