

Fig.A1 (a) Generalized dimension D_q spectrum for the graupel mixing ratio distribution obtained by volume scans of X-band MP radars. (b) indicates the same but for water vapor flux (QVF) obtained by the numerical simulation.

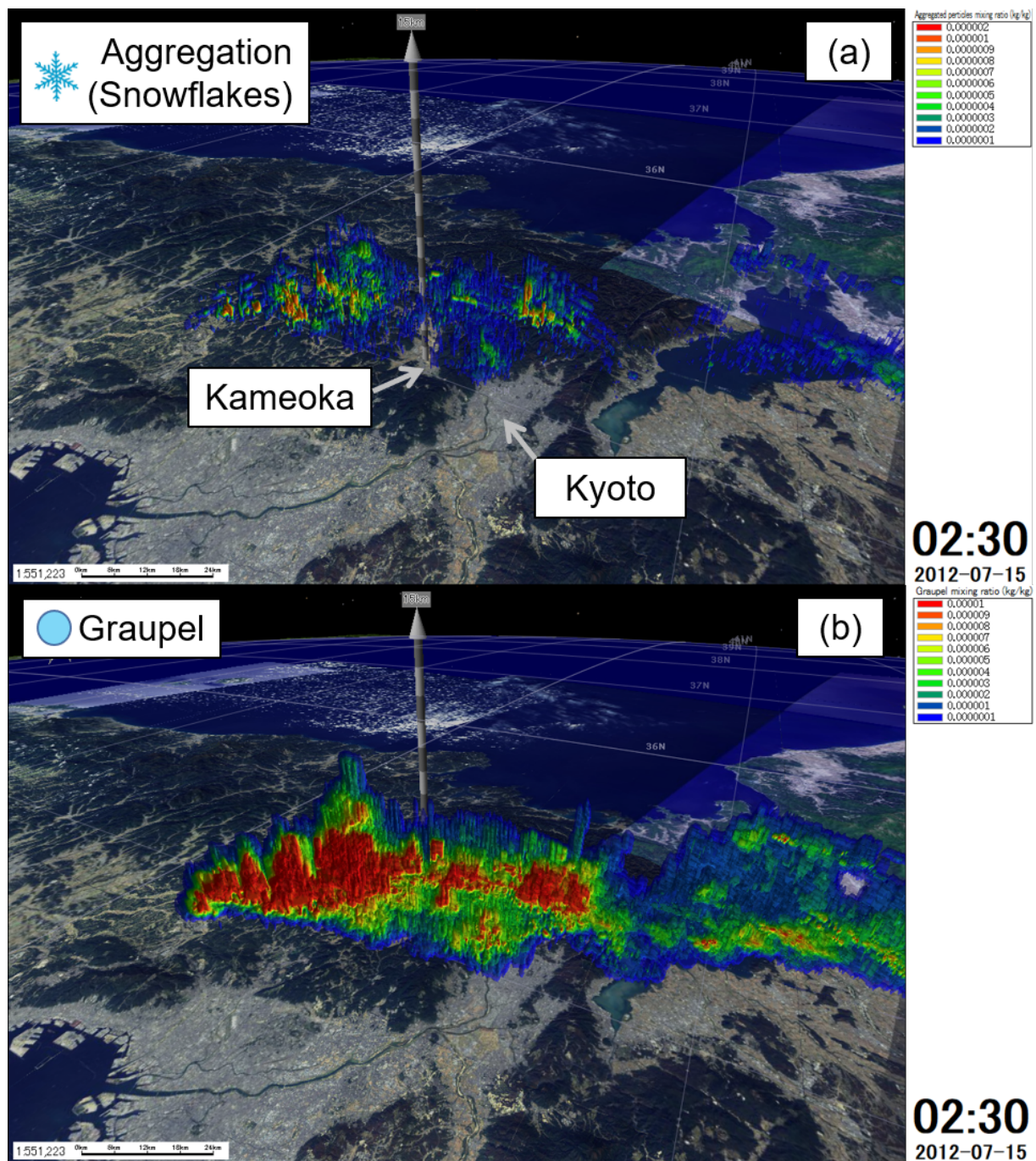


Fig.A2 3D images of ice-phase precipitation particles mixing ratio and rainwater ((a) Aggregation, (b) graupel, respectively).

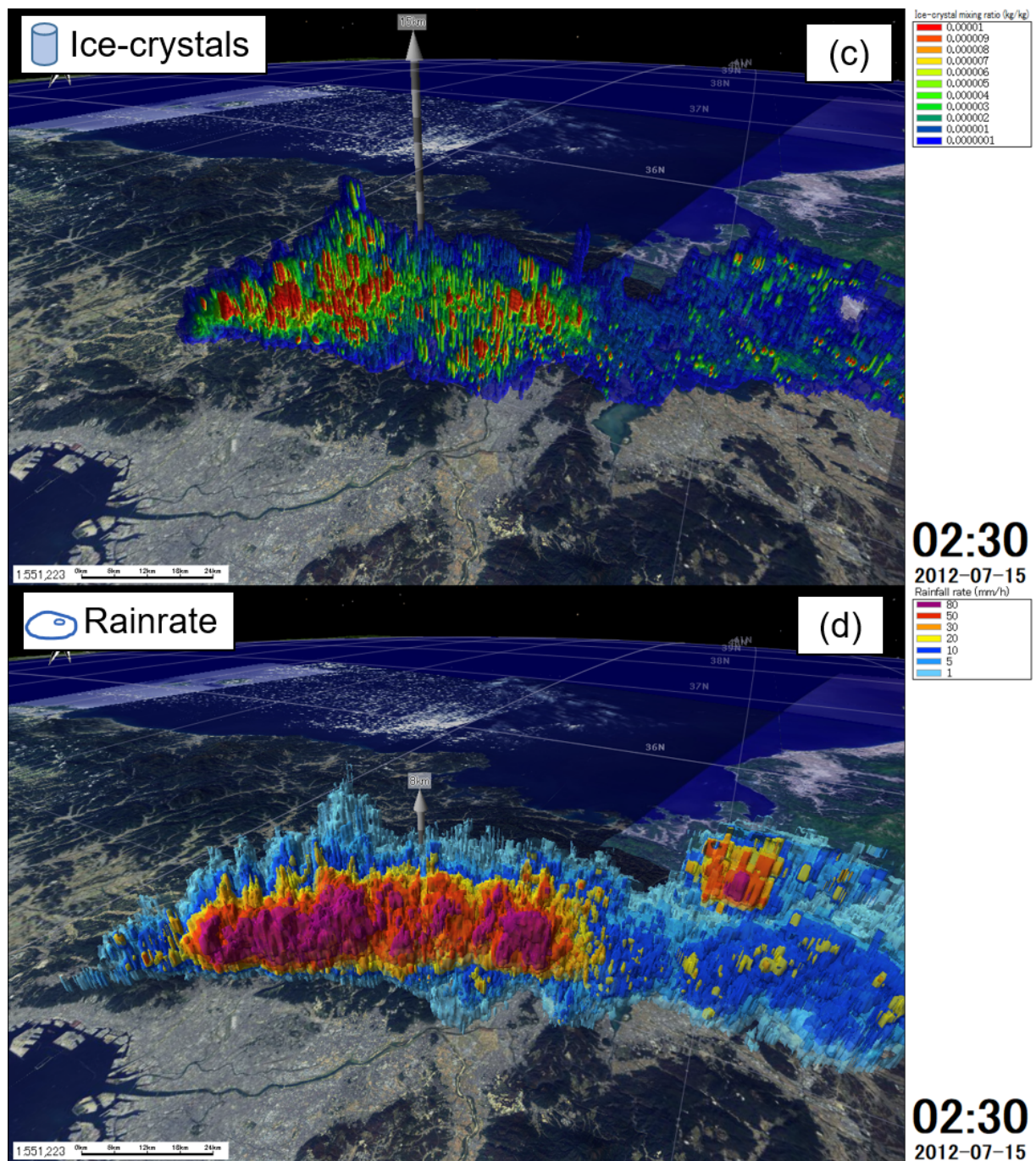


Fig.A2 (sequel) 3D images of ice-phase precipitation particles mixing ratio and rainwater ((c) snow flakes, (b) rainfall intensity, respectively).