Supplement of

Polarization properties of aerosol particles over western Japan: classification, seasonal variation, and implications for air quality

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SF.1 Theoretical calculation of depolarization ratio (at 120 backward direction) as a function of particle size for different refractive index. The simulation was on the basis of particles of Voronoi aggregation.
SF. 2 The geographic positions of typhoon center on 4\textsuperscript{th} Oct and 13\textsuperscript{th} Oct, 2014. No. 18 Phanfone and No. 19 Vongfong) during the study period is provided on the Japan Meteorological Agency webpage (http://www.data.jma.go.jp/fcd/yoho/typhoon/route_map/index.html)