

Radar

Z_m at range r

Disdrometer

Surface DSD

In situ sensor/s

Surface T, RH, P, R

DSD at range r

Drop size change
due to evaporation

Time lag
correction

Time series of Z_d

Back- and forward-
scattering lookup
table (Z_0, A)

Mean and deviation of $(Z_m - Z_d)$
 $Z_m > 5 \text{ dBZ}$ and $Z_d > 5 \text{ dBZ}$

Gas
attenuation (A_g)