



## Supplement of

## Raindrop size distribution (DSD) during the passage of tropical cyclone Nivar: effect of measuring principle and wind on DSDs and retrieved rain integral and polarimetric parameters from impact and laser disdrometers

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Figure 1S: (a)-(c) γ<sub>H</sub> as a function of temperature (°C) in the eyewall of NIVAR derived from
JWD, PARSIVEL, and LPM during different surface wind speed intervals using Tmatrix simulations at C-band. (d)-(f) and (g)-(i) are the same as (a)-(c) but for the
inner and outer rainbands of NIVAR, respectively.



Figure 2S: (a)-(c) γ<sub>DP</sub> as a function of temperature (°C) in the eyewall of NIVAR derived
 from JWD, PARSIVEL, and LPM during different surface wind speed intervals using
 T-matrix simulations at C-band. (d)-(f) and (g)-(i) are the same as (a)-(c) but for the
 inner and outer rainbands of NIVAR, respectively.



18 Figure 3S: Same as Fig. 1S but at S-band.



Figure 4S: Same as Fig. 2S but at S-band.