## Sub-cloud rain evaporation from shallow convection in the north Atlantic winter trades

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Abstract. Sub-cloud rain evaporation in the trade wind region significantly influences boundary layer mass and energy budgets. Parameterizing it is, however, difficult due to the sparsity of well-resolved rain observations and the challenges of sampling short-lived marine cumulus, clouds, In this, study, sub-cloud rain evaporation is analyzed using a steady-state one-dimensional model that simulates changes in drop sizes, temperatures and rain isotopic composition. The model is initialized with rain-
5 drop size distributions and water vapor isotope ratios (e.g. $\left.\delta D_{v}, \delta^{18} O_{v}\right)$ sampled by the NOAA P3 aircraft during the Atlantic Tradewind Ocean-Atmosphere Mesoscale Interaction Campaign (ATOMIC), which was part of the larger EUREC4A (ElUcidating the RolE of Clouds-Circulation Coupling in ClimAte) field program. The model suggests that $63 \%$ of the rain mass evaporates in the sub-cloud layer across 22 P3 cases. The vertical distribution of the evaporated rain flux is 'top-heavy' for a narrow ( $\sigma$ ) raindrop size distribution (RSD) centered over a small geometric mean diameter $\left(D_{q}\right)$ at cloud base. A 'top-heavy'

10 profile has higher rain evaporated fraction (REF) and larger changes in rain deuterium excess ( $d=\delta D-8 \times \delta^{18} O O$ ), between cloud base and the surface, as compared to a 'bottom-heavy' profile which results from a wider RSD with larger $D_{q}$. The modeled REF and change in $d$ are also more strongly influenced by cloud base $D_{q}$ and $\sigma$ rather than the concentration of raindrops. The modeled isotope ratios in surface precipitation closely match observations from EUREC4A ground-based and ship-based platforms so long as variations in relative humidity conditions are accounted for. Relative humidity alone however, is a poor
15 indicator of sub-cloud rain evaporation. Overall, our analysis, indicates, that both thermodynamic and microphysical processes have an important influence on sub-cloud rain evaporation in the trade wind region.

## 1 Introduction

 ocean basins. Byers and Hall, 1955; Nicholls, and Leighton, 1986; Paluch and Lenschow, 1991; Short and Nakamura, 2000;
20 Jensen et al., 2000; Stevens, 2005) Rain rates on the scale of ${ }_{\Delta} \mathrm{mm}_{\Delta} \mathrm{mm} / \mathrm{day}_{\star}$ commonly associated with shallow cumulus, precipitation, are capable of producing roughly, $28 \mathrm{Wm}_{a}^{-2}$ of Jatent heat flux through rain evaporation in the sub-cloud layer, (Figure

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1). which is comparable to the radiative and surface fluxes computed using mixed layer models (e.g. Caldwell et al. 2005) and within stratocumulus-to-cumulus transition regions (e.g. Kalmus et al., 2014).
Such large fluxes, even if localized, may influence the vertical moisture and energy distribution and affect the boundary layer
25. stability (e.g. Srivastava, 1985; Paluch and Lenschow, 1991). The evaporatively cooled air mass also facilitates downdrafts below the cloud base which initiate or strengthen cold pool formations (Srivastava, 1985; Jensen et al., 2000; Seifert, 2008; Zuidema et al., 2012; de Szoeke et al., 2017). The downdraft can further feed its cool and moist air into large-scale circulations Jeading to moisture recycling (Stevens, 2005; Worden et al., 2007).
The rain evaporation efficiency, or the fraction of rain evaporated in the sub-cloud layer, impacts the amount of rain that
30 reaches the surface. Depending on the fraction of rain reaching the surface and the sub-cloud moisture circulations, clouds could either remain intact or break up affecting the local albedo (Paluch and Lenschow, 1991; Sandu and Stevens, 2011; Yamaguchi et al., 2017; O et al. 2018; Sarkar et al., 2020). Overall, accurate rain evaporation estimates in shallow cumulus regions are needed to better predict surface rain estimates in weather and climate models, and understand the shallow rain life cycle.
35 Past field campaigns have sampled precipitation from shallow cloud systems. For example, the Atlantic Stratocumulus Transition Experiment (ASTEX Bretherton and Pincus, 1995) conducted over the east-central Atlantic Ocean in June 1992, sampled with drizzle evaporating into the sub-cloud layer beneath overlying, stratocumulus, clouds. Similarly, the Rain in Cumulus over the Ocean (RICO Geoffroy et al., 2014; Snodgrass et al., 2009) campaign was conducted off the Caribbean islands of Antigua and Barbuda over the Atlantic Ocean in 2012-2013, where cumulus rain was sampled. Further, the Cloud
40. System Evolution in the Trades (CSET, Albrecht et al., 2019; Mohrmann et al., 2019; Sarkar et al., 2020) was conducted over the Pacific Ocean between California and Hawaii in July-August 2015 to sample stratocumulus, and cumulus rain events. These campaigns support the idea that shallow precipitation and sub-cloud evaporation is important for the local energy budget. However, a more dedicated study is needed to characterize the shallow cloud rain evaporation as a function of the local thermodynamic and microphysical conditions.
45 Questions also remain about the rain evaporation flux $\left(F_{e}\right)$ variability in different cloud conditions and its sensitivity to boundary layer microphysical and thermodynamic ${ }_{\alpha}$ sharacteristics. How is the vertical structure of $F_{e}$ dinked to microphysical and thermodynamic processes? Could $F_{e}$ reinforce, or weaken sub-cloud, stability at local scales? These questions are inherent to our understanding of shallow rain processes and constraining $F_{e}$ accurately.
A major challenge in observationally constraining rain evaporation is sampling rain in and below cumulus clouds, due mainly
50 to their temporal and spatial variability and the limitations in existing rain retrieval methods. The airborne mm-wavelength radar used during field campaigns provides a wide and homogeneous array of cloud and precipitation samples in terms of radar moments. However, accurate, microphysical, retrievals, from, the, radar, moments, are, difficult due, to Mie, scattering and atmospheric and liquid attenuations (Fairall et al., 2018; Schwartz et al., 2019; Sarkar et al., 2021). Rain observations from satellites, although they provide a large array of datasets, are often limited in their accuracy of sensing shallow rain. This is due 55 to factors like high atmospheric attenuation and surface radar reflections (e.g. Kalmus et al., 2014).


In comparison, in-situ cloud and rain probes, although limited in their sampling volume compared to radar, provide wellresolved, direct, and, accurate, microphysical, raindrop,size, distributions, (RSD), In-situ measurements also provide stable isotope ratios of hydrogen and oxygen in water vapor, which can be used to independently assess rain evaporation. This is because as rain evaporates into the unsaturated sub-cloud layer, the isotopically light water transitions to the vapor phase more efficiently,
60 causing the drops to become increasingly heavy (Salamalikis et al., 2016; Graf et al., 2019).
This study makes a novel attempt to characterize rain evaporation, its vertical structure, and, its, dependence, on microphysical (i.e, raindrop, concentration, size, and, distribution, width), and, thermodynamic, (i.e, surface relative humidity) features using a one-dimensional_ steady-stata evaporation model, initialized by in-situs field, observation, of both RSD and water vapor isotope ratios. The in-situ samples were measured by the NOAA WP-3D Orion (P3) aircraft during the Atlantic Tradewind Ocean-
65 Atmosphere, Mesoscale, Interaction Campaign_(ATOMIC), which was a component of the internationald field campaign known
 of rain, is, modeled using RSDs, measured in the field and evaluated using surface-based isotopic rain observations.
First, the rain observations are characterized at cloud base in terms of microphysical and thermodynamic conditions. Second, the vertical distribution of the sub-cloud modeled rain water content ( RWC ) and rain evaporation fluxes ( $\mathrm{F}_{\mathrm{e}}$ ) are discussed in
70 terms of their microphysical and thermodynamic sensitivities. Last, the modeled isotope ratios at the surface are also compared with the surface isotope ratio observations in the P 3 vicinity, to validate the accuracy of the model. We expect from this work results to pave the way toward a better representation of shallow rain evaporation in climate models and to serve as a model for comparing rain evaporation processes in a wide range of convection.

2 Data and Methodology
$75 \quad$ 2.1 ATOMIC/EURECA ${ }^{4}$ Accampaign and datasets
The ATOMIC field campaign was conducted in the north Atlantic trade wind region roughly between $51_{\Delta}^{\circ} \mathrm{W}-60_{\Delta}^{\circ} \mathrm{W}$ and $10_{\Delta}{ }_{\Delta} \mathrm{N}$ $15_{\AA}^{\circ} \mathrm{N}$ to study mesoscale circulations in the atmosphere and ocean (Pincus et al. 2021). ATOMIC was the NOAA-sponsored component of the larger ${ }_{\Omega}$ international EUREC4A field campaign which took place in January-February ${ }_{\Omega}$ 202 $_{\Delta} 0_{\Delta}$ near Barbados
 80 of ATOMIC. Other platforms, such as the R/V Meteor and Barbados Cloud Observatory (BCO) discussed in this paper, were part of the larger EUREC4A effort.

The P3, integrated with radar, in-situ instruments and dropsondes, was flown through cloud and rain transects to collect thermodynamic and microphysical boundary layer observations and facilitate investigations of aerosol-cloud-precipitation interactions, An example of the trajectory, of the ${ }_{2} 3_{2}$ is, shown in, Figure, 2 for 9 February, where, a series of stacked 10 -minute
 km and 3 , km , between, $54^{\circ} \mathrm{W}-56{ }^{\circ} \mathrm{W}$, During most, flights, a level, circle was, also, conducted, at 7.5 , km , altitude and $7-8$, dropsondes were, released to obtain_high-resolution thermodynamic, observations reaching the surface . The surface relative humidity which

is integral to the rain evaporation model used in this paper, is obtained at $\approx 100_{a}$ altitude, Its values for 9 February are noted at the dropsonde locations in Figure $2 b$. This paper characterizes rain structure during ATOMIC using the Cloud Imaging Probe (CIP) and Precipitation Imaging Probe (PIP) instruments on board the $\mathrm{P}_{\Omega}$, which sampled raindrop size distributions in situ ${ }_{\Omega} \mathrm{The}_{\star} \mathrm{CIP}_{\star}$ samples cloud- and rain-
 Chuang, 2021). The CIP and PIP observations are stitched together to obtain 1-Hz raindrop size distributions for diameters

95 in the current analysis. Drops across $400-1800 \mu \mathrm{~m}, 1.8-5 \mathrm{~mm}$, and $5-6 \mathrm{~mm}$ drop sizes are binned at $200 \mu \mathrm{~m}, 400 \mu \mathrm{~m}$, and 1 mm resolutions, respectively.
This paper is based on the later part of the ATOMIC campaign when the CIP and PIP instruments were properly functioning and mean rain rates greater than $0.01 \mathrm{~mm} /$ day $_{\Delta}$ were observed during $22,10-$ minute in-cloud horizontal legs on $4_{\Omega} 5_{\Omega}, 9$ and 10 February. The in-cloud RSD is assumed to accurately represent cloud base RSD. The rain rates (in $\mathrm{mm} /$ day ) are calculated from
 $(\mathrm{mm}), v_{i}\left(\mathrm{~m} / \mathrm{s}_{\mathrm{s}}\right.$ is $_{3}$ the terminal velocity ${ }_{3}$ associated with $D_{i_{3}}$, and $j_{i}$ is the index of the $\mathrm{RSD}_{3}$ bin, The rain rates for each 10 -minute leg are averaged and noted in the legend of Figure 3. Even though the probe instruments were working on $31_{A}$ January and $11_{A}$ February, the mean rain rates from those days were below $0.01_{\Omega} \mathrm{mm} /$ day $_{\star}$ during all of the 10 -minute in-cloud horizontal legs and are therefore not included in this study.
105 To model the isotopic evolution of the RSDs, $1-\mathrm{Hz}$ water vapor mixing ratio and water vapor isotope ratios for hydrogen and oxygen ( $\delta D_{v}$ and $\delta^{18} O_{v}$ respectively) were obtained from the Picarro L2130-i, water vapor isotope analyzer flown during ATOMIC (Bailey et al., 2023). When airborne, the analyzer drew in ambient air through a 0.25 inch backward-facing tube, which ensured the selective sampling of water vapor as opposed to liquid water Pincus et al., 2021). $\delta D_{v}$ and $\delta^{18} O_{v}$ represent the ratios $D / H_{\Delta}$ and ${ }^{18} \mathrm{O}^{1 / 6} \mathrm{O}_{\Delta}$, respectively, normalized to VSMOW (Vienna Standard Ocean Water) and reported in units permil (\%o). The standard deviation associated with the $1-\mathrm{Hz}$ P3 $\delta D_{v}$ and $\delta^{18} O_{v}$ for specific humidity of ${ }_{v} 1-18 \mathrm{~g} / \mathrm{kg}$ are $2 \%$ and $0.8 \%$, respectively (Figure 8, Bailey et al. (2023)).

The accuracy of the sub-cloud rain evaporation model used in this study is evaluated using the rain isotope ratios and rain rate
 region between Barbados and the Northwest Tropical Atlantic Station (NTAS), a buoy-station near $15_{\Lambda}^{\circ} \mathrm{N}, 51{ }_{\Delta} \mathrm{W}$, to provide a ground-based perspective for the P3 flying overhead. The jsotopic composition of 12 precipitation samples collected aboard the Brown have been characterized with $0.2 \%$ and $0.8 \%$ of bulk uncertainty in $\delta D_{v}$ and $\delta^{18} O_{v}$, respectively (Bailey et al., 2023). While the Brown measurements (collected across a wide geographic, area between $5_{\Delta}$ January and $11_{\Delta}$ February) are not exactly, co-located in space or time with the ${ }_{\Delta} \mathrm{P}_{\boldsymbol{\Omega}}$, they still $_{\Delta}$ provide a useful assessment of the trade-cumulus environment in which the P3 flew.
120 Isotope ratios were also sampled in surface precipitation at two other stations, viz. the Barbados Cloud Observatory (BCO)
v and the German R/V Meteor (ship), that were part of the EUREC4A campaign. These provide further observational constraints



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To model the isotopic composition of the precipitation, the vertical change in $\delta_{p_{A}}(\%)$ of raindrops as they evaporate is given. by ( $\operatorname{Graf}(2017)$ ),

(8)

 tions at 150 m altitude. All the parameters discussed in the model are derived from Pruppacher et al. (2010), Graf (2017) and Salamalikis et al. (2016) and are described in the MATLAB code attached.
 ature at cloud base by assuming that the raindrops are in equilibrium with the water vapor (Risi et al., 2020) and scaling by a temperature dependent equilibrium fractionation factor $\left(\alpha_{p_{\Delta}>u_{\Delta}}=\left(\delta_{p} / 1000+1\right) /\left(\delta_{v} / 1000_{\Delta}+1\right)\right)$, as defined in Majoube (1971). The modeled $\delta_{p}$ at the surface is later compared with the surface rain isotope ratio observations from the BCO, the Brown and the Meteor ${ }_{\mu} \mathrm{to}_{\mu}$ validate the accuracy of the model.
Because isotope, ratios are typically measured in bulk precipitation, we evaluate the mass-weighted isotopic composition of the, integrated, raindrop, size, distribution, in, the, simulations. This is done by integrating $\delta D_{p}$ and $\delta^{18} O_{p}$ over the observed RSD to estimate the mean (mass-weighted) $\delta D_{p}$ and $\delta^{18} O_{p}$ at each vertical level $Z$ following:
$\frac{\delta_{p}(z)=\frac{\mathrm{L}_{23}}{\mathrm{~L}_{23}^{i=1}} N\left(D_{i}\right) D_{i}^{3} \delta_{p, i}}{\underline{i=1} N\left(D_{i}\right) D_{i}^{3}}$
The deuterium-excess or $d_{p}$, a quantity useful in sub-cloud rain evaporation analysis, is defined as $d_{p}=\delta D_{p}-\delta^{18} O_{p} . \delta D_{p}$ and $\delta^{18} O_{p}$ are affected by both equilibrium and non-equilibrium processes in the sub-cloud layer. However, $d_{p}$ cancels out the equilibrium effects in $\delta D_{p}$ and $\delta^{18} O_{p}$ and thereby only represents the non-equilibrium effects that takes place due to rain evaporation in the unsaturated sub-cloud layer.

### 2.3 Moisture concentration post rain evaporation

Finally, the impact of the rain evaporation flux on the sub-cloud layer moisture concentration $\Delta q_{v}\left(\mathrm{gm}^{-3}\right)$ can be estimated by assuming an appropriate integration time $t$ (s):
$\Delta \underline{q_{v}}=\frac{\underline{\mathrm{r}} F_{e} d t}{\underline{L}}$

When the rain evaporated water vapor mixes with the ambient water vapor then the net isotope ratio at a vertical level $Z$ is a combination of the background vapor isotope ratio and the isotope ratio evaporated from the drop as given by Noone (2012):

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where $\delta_{e} \delta_{v a_{a}}$ and $\delta_{u_{\Delta}}$ are the isotope ratios (\%) of the evaporated rainwater, ambient water vapor prior to rain evaporation, and total water vapor post rain evaporation at level $z$, respectively. $\Delta q_{v}$ is the result from equation 10 and depends on both the length of time over which rain evaporation is presumed to occur and on the assumption that the fluxes derived from the steady-state rain evaporation model are constant over the integration interval.
$215 \delta_{e}(z)$ is computed from the difference between the product of $\delta_{\Omega_{a}}$ and RWC at every, $\Delta z$ depth using:


The role of microphysical processes in influencing modeled rain evaporation and rain isotopic composition is investigated in terms of the total raindrop concentration $\left(N_{0}\right)_{, ~ g e o m e t r i c a l ~ m e a n ~ d i a m e t e r ~}^{A}{ }_{A}\left(D_{g}\right)_{A}$ and the lognormal distribution width $(\sigma)$
$\underline{220}$ at the sampling level. These parameters $\left(N_{0}, D_{g_{\mathrm{a}}}\right.$ and $\left.\sigma\right)$ provide physically meaningful quantities to interpret microphysical conditions of rain, and are helpful in evaluating the sensitivity of rain evaporation to microphysical changes These are derived by fitting the observed RSDs to a lognormal distribution (Feingold and Levin (1986)) following:


Notice that when $N_{\Delta}(D)$ is substituted into, equation 9 for $\delta_{p}, N_{0}$ cancels in the numerator, and denominator making $\delta_{p}\left(\delta D_{p}\right.$ and $\delta^{18} O_{p}$ ) independent of raindrop concentration and only dependent on $D_{q}$ and $\sigma$. Similarly, REF is also almost independent of $N_{\mathrm{og}}$
For simplicity, collision-coalescence (i.e., raindrop self-collection) and breakup processes are ignored, as is the impact of
$\underline{\underline{230}}$ turbulence and mesoscale variability. We have assumed that the $N_{0}, D_{q}$ and $\sigma$ sampled at the in-cloud legs represent the cloud base precipitation well. This assumption is backed by the small difference between the observed $N_{0}, D_{q}$ and $\sigma$ for a given rain rate whether it is sampled at cloud base or higher (Figure 5). This result is similar to Wood (2005) whose result suggest that rain rate is near constant in the lower $60 \%$ of stratocumulus clouds.

## 3 Results

235 Observed rain characteristics
The $10-\mathrm{minute}(1-\mathrm{Hz})$ horizontal deg mean rain rates sampled for 20 out of the 22 cases on $4,5,9$ and 10 February, (Figure 3) vary between $0.01-3, \mathrm{~mm} /$ day $_{A}$ with rain frequency, between $1-10 \%$. The other two cases have more intense rain rates of 22

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$\mathrm{mm} /$ day and $31 \mathrm{~mm} /$ day and rain frequencies, of $10 \%$, and $50 \%$, respectively, sampled on 9 February at 1630 m and 2112 m altitudes, The leg-mean rain, rates, are, calculated $\mu$ sing the $1-\mathrm{Hz}$ samples with rain rate, higher than 0.01 , $\mathrm{mm} /$ day Rain frequency is, defined as the ratio of the number of raining samples, to the total number of raining and non-raining samples, within a $10-$ minute horizontal leg, Overall, barring two cases, the rain rates, sampled, over 20 horizontal legs by, the, P3 are weak, and comparable with rain usually witnessed in stratocumulus clouds.
The highest and lowest rain rates, were, observed, on $9_{2}$ February $\left(31_{\Omega} \mathrm{mm} / \text { day }\right)_{,}$and $4_{4}$ February $\left(0.01_{\Omega} \mathrm{mm} / \text { day }\right)_{\star}$ respectively, The low, rain rates, on, 4 February are, due, to, the, higher, concentration, of small, raindrop, diameters, $(<200, \mu \mathrm{~m})$, and almost no raindrops larger than $500 \mu \mathrm{~m}$, as compared to the other, days, Similarly, the higher rain rates for the two cases on 9 February are due to the high concentration, of larger drops compared to other cases. Seven out of the 22 cases were sampled within $\pm 100 \mathrm{~m}$ of cloud base ( 700 m ) white the other cases had sampling altitudes higher than 1.3 km , No, rain, was, detected, ats, any, of the $150-\mathrm{m}_{\Omega}$ altitude legs, (except, one, case, on, $9_{\&}$ February), suggesting that, rain, either, evaporated, completely, before, reaching the surface or was not sampled when it reached the surface.

CSET comparison
Compared to the average P3 cases, the cumulus, rain events sampled over 5 cases during, the CSET, campaign, in the Northeast
 the average $D_{g_{\alpha}}$ for the ${ }_{\alpha} \mathrm{CSET}_{\Delta}$ cases, Jies within the P3 ranges, (Figure $5 \mathrm{~b}-\mathrm{c}$ ). Since $D_{g_{4}}$ and $\sigma$ did not vary significantly across the five CSET cases, the higher rain rates during CSET eould be due mainty to their larger $N_{0}$.

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Next, we evaluate which microphysical conditions are more likely to generate a top- or bottom- heavy $F_{e}$ profile. Since the $F_{e}$ structure is dependent on the microphysical state at cloud base, $F_{\text {bottom }} / F_{\text {top }}$ should also be dependent on the microphysical parameters $N_{0}, D_{q}$ and $\sigma$. To demonstrate this here, we have determined the correlation of $N_{0}, D_{g}$ and $\sigma$ at cloud base with $F_{\text {bottom }} / F_{\text {top }}$ for each case (Figure 8). A strong correlation is found between $F_{\text {bottom }} / F_{\text {top }}$ and $D_{g}$ and $\sigma$. Comparatively, $F_{\text {bottom }} / F_{\text {top }}$ and $N_{0}$ correlate weakly. This might be because the net effect of $N_{0}$ gets canceled in the numerator and denominator of Fbotum F Fops, In-all, over the 22 eases; the bottom-heavy sub-cloud profiles; that could be-prone to -loud breakup and boundary layer decoupling, have higher $D_{q}$ and $\sigma$ at cloud base. Conversely, the top-heavy profiles, that could facilitate more intact clouds and higher mixing with the surface layer, have smaller $D_{g}$ and $\sigma$ at cloud base.

A lower $\mathrm{RH}_{s f}$ is also modeled to produce more top-heavy profiles (smaller $F_{\text {bottom }} / F_{\text {top }}$ ), and vice-versa (Figure 9). This flux closer to the cloud base and thus a top-heavy profile.
In summary, high $D_{q}, \sigma$ and $\mathrm{RH}_{s f}$ are all linked to a bottom-heavy energy profile and vice-versa. This shows how the microphysical and thermodynamic parameters of the sub-cloud layer are associated with changing the vertical energy structure and potentially therefore affecting the sub-cloud stability.

## 350 Microphysical and thermodynamic influence on $\boldsymbol{F}_{e T}$ and REF

REF in the sub-cloud layer is -useful- to determine the ameunt of rain reaching the surface and to formulate the amount of $F_{e T}$. $F_{e T}$, on the other hand, is an estimate of the column total rain evaporation flux generated in the sub-cloud layer, that could indicate the average evaporative cooling rate of the sub-cloud layer. Both REF and $F_{\text {eT }}$ depend on the microphysical and thermodynamic processes in the cloud and sub-cloud layer, as shown by the following model results:
a) Microphysical influence: REF is a strong function of $D_{q}$ and $\sigma$ (correlation coefficient $=-0.7$ and -0.8 respectively). The higher the $D_{q}$ and $\sigma$ at cloud base, the smaller the REF (Figure A2f,h). This is because a higher $D_{q}$ and $\sigma$ at cloud base signifies an RSD with a high proportion of bigger raindrops that are more likely to reach the surface without completely evaporating. Conversely, smaller $D_{q}$ and $\sigma$ at cloud base have higher modeled REF, since smaller drops evaporate more efficiently reducing the overall mass of the rain more. The influence of $N_{o}$ on REF is smaller compared to $D_{q}$ and $\sigma$ (Figure A2d). This is because
$F_{e T}$, on the other hand, is strongly impacted by $N_{0}$ (as well as $D_{q}$ and $\sigma$ ). This is because $F_{e T}$ is proportional to $N_{0}$. In short, while the influence of $N_{0}$ is not prominent in REF, its influence dominates $F_{e T}$. Most of the P3 cases with higher $D_{g}$ and $\sigma$ also have higher $N_{0}$. Due to this, lower REF cases are mostly correlated with higher $F_{e T}$. But in some cases like on 9 February, $D_{q}$ and $\sigma$ are small but $N_{o}$ is large, leading to large REF and large $F_{e T}$. Similarly, two cases on 10 February, have large $D_{q}$ and $\sigma$ but small $N_{0}$, leading to small REF and small $F_{e T}$. Overall, the link between REF and $F_{e T}$ may not be linear ,
due to the underlying microphysieal processes. More- mierophysieal observations over-shatlow rain datasets are required to affirm this connection in a robust way.
b) Thermodynamic influence: The correlation of REF with $\mathrm{RH}_{s f}$ is not as strong as with the microphysical parameters (Figure A2a-b). But in a sensitivity study, where the microphysical parameters are fixed and $\mathrm{RH}_{s f}$ is varied in $10 \%$ interval


370 jumps, a lower $\mathrm{RH}_{s f}$ is correlated with higher REF (figure 9), and vice-versa. Accordingly, a jump of about $10 \%$ in $\mathrm{RH}_{s f}$ would be required to make a prominent change on REF.
$F_{e T}$ also increases as $\mathrm{RH}_{s f}$ decreases. As $\mathrm{RH}_{s f}$ decreases and the sub-cloud layer becomes drier, the rate of change in drop size increases ( $\frac{d D}{d \underline{d z}}$ in equation 1). The sensitivity test suggests that for every $10 \%$ increase in $\mathrm{RH}_{s f}, F_{e T}$ decreases by $\approx 2-6$ $\mathrm{Wm}^{-2}$. For 17 out of 22 cases, $\mathrm{RH}_{s f}$ is between $67-74 \%$. The rest of the 5 cases are on 5 February and have higher RH ${ }_{s f}$ of Fet by $60 \%$ and $53 \%$, respectively.

## $\underline{F}_{\underline{e T} \operatorname{vs} \boldsymbol{F}_{p, c b}}$

A scatter plot between $F_{p, c b}$ and $F_{e T}$ is shown for 20 of the 22 cases (Figure 8a). The other two cases are from 9 February where $F_{p, c b}$ is higher than $500 \mathrm{Wm}^{-2}$ and are not shown in the Figure for clarity. Five out of the 22 cases on 4 and 5 February, where rain evaporates completely, have $F_{e T}$ equal to $F_{p, c b}$. Otherwise, as $F_{p, c b}$ increases, $F_{e T}$ tends to become smaller as a fraction of $F_{e T}$, indicating that REF falls with increasing $F_{p, c b}$.

The slope of $F_{p, c b}$ versus $F_{e T}$ shown in Figure 8 a is 0.63 , indicating that on average $63 \%$ of the rain mass sampled by the P3 has evaporated in the sub-cloud layer. The magnitude of $F_{e T}$ is between $15-352 \mathrm{Wm}^{-2}$ for 9 out of 22 cases. This is analogous
 385 density of air, heat capacity of dry air and cloud base height. This is comparable to a typical longwave radiative cooling rate over the marine boundary layer depth of 4-10 K/day and therefore should significantly contribute to the boundary layer energy budget in shallow convective environments where rain is present.

## $\underline{\text { Rain evaporation analysis using rain isotope ratios } \delta D_{\rho} \text { and } \boldsymbol{\delta}^{18} O_{\rho}}$

## Modeled $\boldsymbol{\delta} \boldsymbol{D}_{\rho}, \boldsymbol{\delta}^{18} \boldsymbol{O}_{\rho}$ and $\boldsymbol{d}_{\rho}$ for the P3 cases

Changes in $\delta D_{p}, \delta^{18} O_{p}$ and $d_{p}$ are modeled for all the 22 P 3 cases (Figure $7 \mathrm{~g}-\mathrm{i}$ ). As rain evaporates in the sub-cloud layer, the modeled $\delta D_{p}$ and $\delta^{18} O_{p}$ increase and $d_{p}$ decreases towards the surface. The decrease in $d_{p}$ is caused by the preferential evaporation of $D$ in the water molecule owwing to their fower mass and higher vapor pressure compared to ${ }^{18} \mathrm{O}$, leaving the rain less enriched in $\delta D_{p}$ compared to $\delta^{18} O_{p}$.

The P 3 cases with the higher modeled surface $d_{p}$ have either high $\mathrm{RH}_{s f}(>75 \%)$ or large $D_{q}$ and $\sigma$ (compared to average P3-values), or both. The model also shows a positive correlation between the fractional change in $d_{p}$ from eloud base to the surface ( $1-d_{p, s f} / d_{p, c b}$ ) and REF for the 22 P3 cases (Figure A1). This is logical since small REF suggests less fraction of rain mass evaporation which would correspond to smaller change in $d_{p}$ from cloud base to the surface.

## Comparison of model results with surface $\delta D_{\rho} \boldsymbol{\delta}^{18} O_{\rho}$ and $d_{\rho}$ observations

The surface-based observations of $\delta D_{p}, \delta^{18} O_{p}$ and $d_{p}$ from the Brown, the BCO and the Meteor are shown in Figure 10a-c. $\underline{\delta D_{p}}$ for the BCO is slightly smaller than for the Brown and Meteor, and the Meteor $d$ is slightly smaller compared to the BCO

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and the Brown .but -overall the observed $\delta D_{p,} . \delta: O_{p} O_{p}$ and $-d_{p}$ ranges are between $0-20 \% 0,-2.5-1.2 \%$ and $4-18 \%$. respectivelv. These ranges correspond well to the values shown across other platforms during the EUREC4A/ATOMIC campaign (refer to Bailey et al. (2023)). In particular, the rain sampled by the Brown was measured at $\mathrm{RH}_{s f}$ of $\approx 85 \%$ with rain rate of $1-5 \mathrm{~mm} / \mathrm{hr}$. This is considerably higher than the average P 3 values.
405 The modeled surface $d_{p}$ for the four P 3 cases with $\mathrm{RH}_{s f}$ higher than $73 \%$ (green histogram, figure 10 c ) is between $4-10 \%$ and match the observed $d_{p}$ range well. In fact, $d_{p}$ for two cases on 9 February with high $\mathrm{RH}_{s f}$ of $86 \%$ is around $10 \%$ that matches the Brown $d_{p}$ observations most accurately.
Moreover, when the rest of the P3 cases with observed $\mathrm{RH}_{s f}$ smaller than $73 \%$ (purple histogram) are all modeled to run at $85 \%$ to match the station observations, then the modeled surface $d_{p}$ increase from $-2-3 \%$ to $6-10 \%$ to match the station
410 observations as well (magenta histogram). This finding is also consistent with the idea that we would expect measurable rain with higher $d_{p}$ to reach the surface when RH is higher. The evaluation of the model outputs against the station observations lends credibility to our model.
The modeled surface $d_{p}$ is also higher for cases with larger $D_{g}$ and $\sigma$ at cloud base. This is because a higher $D_{g}$ and $\sigma$ corresponds to lower REF. This is demonstrated in Figure 11a where surface $d_{p}$ is modeled for ranges of $D_{q}$ and $\sigma$ including
415 those observed by the P 3 at a low RHsf of $70 \%$. As $D_{q}$ and $\sigma$ increase, the modeled $d_{p}$ matches the Brown observations (yellow shade). Increasing RH ${ }_{s f}$ to $85 \%$ further increases modeled surface $d_{p}$ (Figure 11b). These experiments demonstrate the strong thermodynamic and microphysical influence of sub-cloud layer on the surface $d_{p}$.
Note that $d_{p}$ is independent of $N_{o}$, and only depends on $D_{q}$ and $\sigma$. This can explain why an 'amount effect' (Dansgaard, 1964) is not always present in low-latitude isotopic datasets. The amount effect suggests that for a given rain sample, if the 420 rain rate is high, then $\delta_{p}$ should, be low, and, vice, versa, However, this, may, not, always, hold, true, for, rain, evaporation, in all,

 and $\delta_{p}$ will be low. Consequently, the amount effect may not be appropriate for describing rain evaporation, especially when the microphysical variability is pronounced.

## 425 Water vapor isotope ratio variations

Next, we assess, whether, raindrop, evaporation during the P3 cases could cause a detectable isotopic change in the sub-cloud layer water vapor. The maximum simulated $F_{e}$, associated with 9 February, was $0.7 \mathrm{Wm}^{-2} \mathrm{~m}^{-1}$, which corresponds to a moisture flux of $3.1 \times 10^{-4} \mathrm{~g} / \mathrm{m}^{3} / \mathrm{s}\left(\underset{\mathrm{L}}{\mathrm{Fe}_{\mathrm{E}}}\right)$ Over the course of a 15 -minute rain shower, and neglecting dilution or advection, this flux would cause a change in absolute humidity of about $0.3 \mathrm{~g} / \mathrm{m}^{3}\left(\underset{{ }^{F} \times 9 \text { ooss }}{\underline{\mathrm{L}}}\right)$. Since, the measured absolute humidity on this
430 day was $15 \mathrm{~g} / \mathrm{m}^{3}$, these results indicate that rain evaporation, may have contributed $2 \%$ to the moisture content of the sub-cloud layer. Given the observed $\delta D_{u_{2}}$ of $-71 \%$ and the simulated $\delta D_{e}$ of $5 \%$, we can estimate the isotopic change in sub-cloud layer water vapor due to raindrop evaporation from equation 11 , which vields an isotopic change of $1 \%$. Since, variations of $1 \%$ $\delta D_{v}$ are, readily detectable with today's airborne, water, vapor, isotopic, analyzers, we surmise that rain on 9 February should have caused a measurable shift in the water vapor isotope ratios of the sub-cloud layer.

$435 \quad 4$ Conclusions and discussion
${ }_{4}$ This study evaluates shallow rain evaporation, characteristics in the North Atlantic Ocean near Barbados using a one-dimensional sub-cloud rain evaporation model initialized by ${ }_{\Omega}$ observations, from the EUREC4A/ATOMIC campaign. The focus is on 22 raining cases sampled by the $\mathrm{P}_{\boldsymbol{A}} 3_{\text {, where }}$ whe cloud base leg mean rain rates and RWC are between $0.01-31 \mathrm{~mm} /$ day and $0.0001-0.1$ $\mathrm{gm}^{-3}$, respectively. These cases show interesting variability in their sub-cloud rain evaporation characteristics, as well as their dependence on the microphysical and thermodynamic state of the boundary layer.
 mean $100_{\mu} \mathrm{Wm}_{\mu_{A}^{-2}}^{-2}$ latent heat flux $\mathrm{at}_{\mu} 200_{\mu} \mathrm{m}_{\mu}$ altitude that was measured remotely from aboard the Maria $\mathrm{S}_{\mu}$. Merian, another EUREC4 $A_{\Delta}$ research vessel that sampled to the south of the ${ }_{\Delta} \mathrm{P}_{\Delta}$ study region (Stevens et al., 2021). The $F_{e T}$ for the P3 cases are also comparable with estimates from ASTEX $\left(42 \mathrm{Wm}^{-2}\right)$, RICO $\left(130 \mathrm{Wm}^{-2}\right)$ and CSET ( $10-200 \mathrm{Wm}^{-2}$ ). These differences
445 and variability, especially between the P3 cases and during RICO and CSET, are a result of differences in their RH ${ }_{s f}, D_{q, O}$ and $N_{0}$ in the sub-cloud layer
$F_{e T}$ of $15-352 \mathrm{Wm}^{-2}$ over a 700 m deep sub-cloud layer is equivalent to $2-50 \mathrm{~K} /$ day of evaporative cooling. This is comparable to the typical stratocumulus cloud top radiative longwave cooling ( $4-10 \mathrm{~K} /$ day $)$ and with the rain evaporation cooling rate at cloud base in the marine sub-cloud stratocumulus deck of $2-20 \mathrm{~K} /$ day shown in Wood (2005). This shows that shallow rain evaporation can contribute significantly to the local energy budget and sub-cloud cooling rates
Depending on the vertical distribution and magnitudes of $F_{e}$, the sub-cloud layer could be energetically top- or bottomheavy and potentially influence the boundary layer stability through downdrafts or decoupling. Eleven out of the 22 cases, have most of their rain evaporated closer to the surface. This 'bottom-heavy' configuration should inhibit mixing with the warmer air near the cloud base and, therefore, should aid the boundary layer in decoupling faster. This could also facilitate cold-pool 455 formation.

In contrast, the other 11 cases that are 'top-heavy' accumulate moisture near cloud base and are more prone to mixing with warmer air below. This could lead to a mixed boundary layer in which clouds could remain intact longer. A follow-up modeling study is needed to confirm these processes and to see the degree to which the boundary layer stability depends on the representation of rain evaporation within the model.
460 A top-heavy $F_{e}$ profile is linked with lower $D_{q}$ and $\sigma$ at cloud base. This makes physical sense since a lower $D_{q}$ and $\sigma$ at cloud base would mean that the raindrops are small and the RSD is narrow enough for the drops to evaporate closer to cloud base. Conversely, a bottom-heavy $F_{e}$ profile is linked with higher $D_{q}$ and $\sigma$ due to the higher concentration of larger drops that reach the surface without evaporating completely. This emphasizes the influence of microphysical characteristics of rain at cloud base on the sub-cloud vertical $F_{e}$ profile.
465 Additionally, given constant microphysical parameters at cloud base, a top-heavy $F_{e}$ profile is also linked with lower, $\mathrm{RH}_{s} f_{a}$ :
$\checkmark \quad$ This is because lower RH $H_{s f}$ increases the rate of rain evaporation, especially for smaller drops, facilitating more accumulation of moisture close to cloud base. In contrast, higher $\mathrm{RH}_{s f}$ favors bottom-heavy $F_{e}$ profiles. This depicts the influence of thermodynamic conditions, in addition to microphysical conditions, in modulating the vertical rain evaporation flux distribution.

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The model also shows that, on average, $63 \%$ of the rain mass evaporated in the sub-cloud layer for the 22 P 3 cases. Most of these cases with higher REF are associated, with smaller $D_{g}, \sigma$ and $\mathrm{RH}_{s f}$, and vice-versa. However, the effect of $\mathrm{RH}_{s f}$ on REF is $\downarrow$ dower compared to $D_{g}$ and $\sigma$.
Moreover, if $N_{0}, D_{q}$ and $\sigma$ are all large, then $F_{e T}$ tends to be large and REF small, as seen for most of the 22 P 3 cases. However, there are cases when $D_{q}$ and $\sigma$ are large but $N_{0}$ is small. This leads to small $F_{e T}$ and small REF. A few cases also have small $D_{q}$ and $\sigma$ but large $N_{0}$, resulting in fairly large $F_{e T}$ and large REF. Effectively, therefore, the fraction of rain evaporated (or REF) and the amount of rain evaporated (or $F_{e T}$ ), are more intrinsically dependent on the RSD microphysical parameters, rather than on the bulk RWC itself.
In terms of rain isotopic composition, our results show that sub-cloud conditions with higher $\mathrm{RH}_{s f}$, higher $D_{q}$ and $\sigma$ are prone to higher surface $d_{p}$. This is because a higher $\mathrm{RH}_{s f}$ and higher cloud base $D_{q}$ and $\sigma$ lead to less evaporation of raindrops and low REF and, thereby, smaller changes in $d_{p}$ between cloud base and the surface. In general, REF varies linearly with the fractional change in $d_{p}$ between cloud base and the surface (or 1- $d_{p, s f} / d_{p, c b}$ ). Isotope differences in rain between cloud base and the surface thus provide an independent measure of REF.
The model results also suggest why the 'amount effect' or a negative correlation between rain rate and $\delta_{p}$ is not always found in low latitudes. It is a result of the underlying microphysics of the RSD. If the high rain rate is due to large $D_{q}$ and $\sigma$, then the $\delta_{p}$ should be low due to small REF. But if the rain rate is high because of high $N_{0}$ and small $D_{q}$ and $\sigma$, then $\delta_{p}$ should be high due to high REF. This is especially relevant for shallow rain regimes where microphysies plays a - significant role in determining the rain characteristics.
In general, the model performs reliably well in characterizing the sub-cloud rain evaporation in the shallow rain regime sampled during the ATOMIC/EUREC4A campaign. The results from the model emphasize the role of microphysical and thermodynamic processes in accurately simulating sub-cloud rain evaporation. The variability of the modeled rain evaporation fluxes -acress the 22 P3-cases alse -highlights the need-for - mere samples in-similar -shallow cloud regimes -for- a mere fobust statistical interpretation that could be used to evaluate GCM parameterizations. The model also provides opportunity to extend the rain evaporation study from other field campaigns conducted over different ocean basins and different seasons, which is crucial for a wider understanding of sub-cloud rain processes.

Acknowledgements. This material is based upon work supported by the National Center for Atmospheric Research, which is a major facility
 is from NSF grant No. 1937780. PNB's contribution to this work was supported by the National Science Foundation under Grant AGS1938108, We, acknowledge, the, entire, team, of, ATOMIC/EUREC, ${ }_{4}^{4}$ A for, , collecting, and, processing the, data, from, all, the, platforms used in this study. We thank the two internal reviewers at NCAR and two anonymous external reviewers for their thoughtful comments.


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Figure 1. Schematic showing raining cumulus-topped boundary layer with surface latent and sensible heat fluxes, longwave and shortwave fluxes above cloud top, and entrainment mixing between free troposphere and cloud layer. Rain falling below cloud base can completely or partially evaporate, that can create different mixing configurations as shown by the arrow sizes and directions, and the shaded lines of vertical rain flux structures in the sub-cloud layer. Rain flux from $1 \mathrm{~mm} /$ day rain rate evaporation is shown as $28 \mathrm{Wm}^{-2}$. The aircraft measurements are made at horizontal above-cloud, in-cloud, cloud base and near surface legs as shown by air plane cartoon and red dashed-line trajectories.

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Figure 2. P3 trajectory on 9 February a) in time-altitude axes and b) in longitude-latitude axes with contour colors showing the altitude (in meter) of the P3. The red lines in a) denote the legs with mean rain rates greater than $0.01 \mathrm{~mm} /$ day that are selected for this study Numbers in b) denote the surface relative humidity in fraction of 1 over the dropsonde locations.


Figure 3. Raindrop size distribution is shown for 10 -minute horizontal legs on a) 4 b) 5 c) 9 and d) 10 February. Legend shows the altitude of the horizontal legs, dropsonde-derived surface relative humidity and leg-mean rain rates.


Figure 4. 94 GHz radar reflectivity in dBZ on board P 3 on 9 February pointing downwards for all the six horizontal level legs shown in figure 2 . Red line is the flight trajectory and contour colors show radar reflectivity.

 show the cases sampled at $700 \pm 100 \mathrm{~m}$ altitude, and black circles are cases sampled at altitudes higher than 800 m . Blue circles are for CSET campaign obtained from Sarkar et al. (2020). Only the average $D_{q}$ and $\sigma$ over five CSET cases were available and are shown by single dots in b-c). $N_{0}$ and $\mathrm{RH}_{s f}$ were available for five cases during CSET and are shown in a) and d).

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February cases are shown, in red, blue, green, and black lines respectively. The modeled RSD is averaged over every 50 m vertical dength and then fitted using lognormal distribution to obtain smooth $N_{0}, D_{q}$ and $\sigma$ vertical profiles.


 are shown, excluding the highest two cases on 9 February with $F_{e T}$ above $300 \mathrm{Wm}^{-2}$, The 4, 5, 9 and 10 February cases are shown in red. blue, green and black filled circles, respectively. The blue line is the slope through all the 22 cases and is 0.63 . The dashed black line is the one-to-one, ratio, line for reference The $F_{\text {bottom }} / F_{\text {top }}$ ratio is plotted , with b) $N_{o, c b}$, c) $D_{q, c b}$ and d) $\sigma_{c b}$. $F_{\text {top }}$ and $F_{b o t t o m ~}$ are the summation of $F_{e}$ over $350-700 \mathrm{~m}$ and $0-350 \mathrm{~m}$, respectively. $F_{\text {bottom }} / F_{\text {top }}$ higher than 1 denotes bottom-heavy and less than 1 denote top-heavy cases, as mentioned in gold letters.




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Figure 10. Histograms of surface a) $\delta D_{p}$, b) $\delta^{18} \mathrm{O}_{p}$ and c) $d_{p}$ observed for the $\mathrm{Brown}_{\text {(red) }}$, Meteor (yellow) and $\mathrm{BCO}_{q}$ (blue). The modeled values for the P 3 cases with $\mathrm{RH}_{s f}$ less than $73 \%$ are shown in purple color (legend name: Model low RH). The modeled values with $\mathrm{RH}_{s f}$ higher than $73 \%$ are shown in green line (legend name: Model high RH). The modeled values for the 22 P 3 cases run at $85 \% \mathrm{RH}_{s f}$ is shown in magenta line (legend name: Model $85 \%$ ).

Figure 11. Contours of modeled surface $d_{d}$ is shown as a function of $D_{g_{4}}$ and $\sigma$ for $\mathrm{RH}_{s,}$ of a), $70 \%$ and b), $85 \%$, $d_{s}$ higher than $8 \%$, was
 in red and green boxes respectively. The model for both the cases are run at $\delta D_{v,} \delta^{18} O_{v}$ at cloud base, $\delta D_{v a}, \delta{ }^{18} O_{v a}$ and $d_{p, c b}$ of $-76 \%$, $-11 \% 0,-71 \%,-10.6 \%$ and $12 \%$, respectively.

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Figure A2. Scatter plots of $F_{e T}$ and REF with a,b) $\mathrm{RH}_{s f,}$ c,d) $\left.N_{0, c b}, \mathrm{e}, \mathrm{f}\right) D_{q, c c,}$ and $\left.\mathrm{g}, \mathrm{h}\right) \sigma_{c b}$ for $4,5,9$ and 10 February coded as red, blue, green and black filled circles, respectively.


Figure A5. Modeled $\delta^{18} \mathrm{O} p$ plotted against altitude for 22 cases during a) 4 , b) 5 , c) 9 and d) 10 February. The legends show the altitude of each case followed by the difference in $\delta^{18} \mathrm{O} p$ between cloud base and surface. ${ }^{\text {I }}$

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Figure A3. The relative humidity ( RH dropsondes) in percentage (left) and specific humidity ( $q$ dropsondes) in $\mathrm{g} / \mathrm{kg}$ (right) from the dropsondes plotted for all the P3 cases along the dropsonde altitude. The thick black lines are the mean values of RH and q calculated at each vertical level, and the dotted lines show the spread of RH and q.

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