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., $\delta ^{18}O_{e}$), 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 (σ) raindrop size distribution (RSD) centered over a small geometric mean diameter (D_{σ}) at cloud base. A 'top-heavy'
- profile has higher rain evaporated fraction (REF) and larger changes in rain deuterium excess ($d=\delta D$ -8× $\delta^{18}O$), between cloud base and the surface, as compared to a 'bottom-heavy' profile which results from a wider RSD with larger D_g . The modeled REF and change in d are also more strongly influenced by cloud base D_g and σ 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

Shallow precipitation is a sporadic but energetically significant feature of marine cumulus clouds in the trade-wind tropical 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 1 mm/day, commonly, associated with shallow cumulus, precipitation, are capable of producing roughly, 28 Wm⁻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.

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 (RICQ, 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.

Questions also remain about the rain evaporation flux (F_e) variability, in different cloud conditions and its sensitivity to boundary, layer, microphysical and thermodynamic characteristics. How is the vertical structure of F_e linked 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

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

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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 well-resolved, 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, 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-state evaporation model initialized by, in-situ field observations 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-

Atmosphere Mesoscale Interaction Campaign (ATOMIC), which was a component of the international field campaign known as EUREC4A (ElUcidating the RolE of Clouds-Circulation Coupling in ClimAte), For the first time, the isotopic enrichment

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 (F_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 P3 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

part of the larger EUREC4A effort.

75 2.1 ATOMIC/EUREC⁴A campaign and datasets

The ATOMIC field campaign was conducted in the north Atlantic trade wind region roughly, between 51 W-60 W, and 10 N15 N to study mesoscale circulations in the atmosphere and ocean (Pincus et al., 2021), ATOMIC was the NOAA-sponsored component of the larger, international EUREC4A field campaign, which took place in January-February, 2020 near Barbados (Stevens et al., 2021), Both the NOAA P3 aircraft and the NOAA R/V, Ronald H, Brown (Ron Brown) were deployed as part.

30 of ATOMIC. Other platforms, such as the R/V Meteor and Barbados Cloud Observatory (BCO) discussed in this paper, were

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 P3 is shown in Figure 2 for 9 February, where a series of stacked 10-minute

horizontal legs were flown to sample the boundary layer extensively. The horizontal legs were flown at 150 m, 500 m, 700 m, 2 km and 3 km between 54 W-56 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

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Formatted [136] Formatted .. [138] is integral to the rain evaporation model used in this paper, is obtained at \$\infty\$ 10, m altitude. Its values for 9. February, are, noted at Deleted: Feburary the dropsonde locations in Figure 2b. Formatted ... [139] 90 This paper characterizes rain structure during ATOMIC using the Cloud Imaging Probe (CIP) and Precipitation Imaging Formatted [140] Probe (PIP), instruments, on board the P3, which sampled raindrop size distributions in situ. The CIP samples cloud- and rain-Formatted ... [137] drops across diameters of 25 μm-1.6 mm, while the PIP samples across 100μm, 6.2 mm, Pincus et al., 2021; Leandro and Deleted: figure Chuang, 2021). The CIP and PIP observations are stitched together to obtain 1-Hz raindrop size distributions for diameters Field Code Changed ... [141] spanning 100 µm-6, mm (total 23 bins), Bin sizes smaller, than 100 µm and bigger, than 6 mm are not reliable and are not used Deleted: in-situ mode (... [143] Deleted: 95, in the current analysis. Drops across 400-1800 μm, 1.8-5 mm, and 5-6 mm drop sizes are binned at 200 μm, 400 μm, and 1 ... [145] Formatted mm resolutions, respectively. (... [142] Formatted (... [144] This paper, is based on the later part of the ATOMIC campaign when the CIP and PIP instruments were properly functioning Formatted (... [146]) and mean rain rates greater than 0.01 mm/day, were observed during 22 10-minute in-cloud horizontal legs on 4, 5, 9 and 10. Deleted: (Pincus et al., February. The in-cloud RSD is assumed to accurately represent cloud base RSD. The rain rates (in mm/day) are calculated from Deleted: 2021; the observed RSD using $R = 6\pi \times 10^{-7} \frac{L_{23}}{N(D_1)v_1D_3}$ where $N(m^{-3})$ is the raindrop concentration for drop diameter D_1 Formatted (... [147] (mm), v_i (m/s), is the terminal velocity, associated with D_i, and i to the index of the RSD bin. The rain rates for each 10-minute Formatted (... [148] leg are averaged and noted in the legend of Figure 3. Even though the probe instruments were working on 31, January, and 11, Deleted: Leandro and Chuang,...HYPERLINK \\ [149] February, the mean rain rates from those days were below 0.01, mm/day during all of the 10-minute in-cloud horizontal legs Formatted (... [150]) and are therefore not included in this study. Formatted (... [1<u>5</u>2]) To model the isotopic evolution of the RSDs, 1-Hz water vapor mixing ratio and water vapor isotope ratios for hydrogen Formatted (... [151] and oxygen (δD_v and $\delta^{18}Q_v$ respectively) were obtained from the Picarro L2130-i water vapor isotope analyzer flown during Deleted: 90 ATOMIC (Bailey et al., 2023). When airborne, the analyzer drew in ambient air through a 0.25 inch backward-facing tube, Formatted ... [154] which ensured the selective sampling of water vapor as opposed to liquid water (Pincus et al., 2021). δD_v and $\delta^{18}O_v$ represent Formatted the ratios D/H, and 18Q/16Q, respectively, normalized to VSMOW, (Vienna Standard Ocean Water), and reported in units Deleted: February. 110 permil (%), The standard deviation associated with the 1-Hz P3 δD_v and $\delta^{18}O_v$ for specific humidity, of J-18 g/kg are 2 % Deleted: ----Section Break (Next Page)-. [155] Formatted [156] and 0.8%, respectively (Figure 8, Bailey et al. (2023)). Deleted: × The accuracy of the sub-cloud rain evaporation model used in this study is evaluated using the rain isotope ratios and rain rate measurements from, the, NOAA, Research, Vessel, Ronald, H, Brown, (ship), During, ATOMIC, the, Brown, sailed, in, the, trade-wind Deleted: L6mm→ N_iV_iD₃ region between Barbados and the Northwest Tropical Atlantic Station (NTAS), a buoy-station near 15, N, 51, W, to provide a Deleted: Ni 115 ground-based perspective for the P3 flying overhead. The isotopic composition of 12 precipitation samples collected aboard Deleted: conthe Brown have been characterized with 0.2 % and 0.8 % of bulk uncertainty in δD_{L} and $\delta^{18}O_{R}$, respectively (Bailey et al., Formatted [158] 2023). While the Brown measurements (collected across a wide geographic area between 5 January and 11 February) are not Formatted (... [159] exactly, co-located, in space, or time, with the P3, they still provide, a useful assessment of the trade-cumulus environment in Formatted ... [160] which the P3 flew. Formatted (... [161] Formatted **1**20 Isotope ratios were also sampled in surface precipitation at two other stations, viz. the Barbados Cloud Observatory (BCO) (... [157] Formatted and the German R/V Meteor (ship), that were part of the EUREC4A campaign. These provide further observational constraints (... [162]) Deleted: (... [163] for the rain evaporation model used in this study. The BCO is a land-based observatory on the eastern shores of Barbados, where Formatted .. [164] Moved down [3]: ¶ Deleted: (... [172] Formatted (... [171] Formatted (... [173] Deleted: figure 3. Formatted (... [174] Formatted (... [165] Formatted (... [166]) ... [175]

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V	42 precipitation samples were collected from 16 January and 18 February (Villiger et al., 2021). The Meteor sailed along a		Formatted	([194])
A	north-south transect defined by the 57.24 W meridian and sampled 15 rain events between 20 January and 19 February		Formatted	([203])
<u>125</u>	Uncertainties associated with the Meteor samples are 0.2% and 0.5% for $\delta^{18}O_p$ and δD_p , respectively (Galewsky, 2020).	1	Deleted: ¶	
	More details regarding isotopic observations, stations and measurement techniques during <u>FUREC4A</u> are described in <u>Bailey</u>	V_{i}	Formatted	([195])
	<u>et al. (2023).</u>		Formatted	([196])
	2.2 Sub-cloud rain evaporation model	W ///	Deleted: (Galewsky, 2020).	
	2.2 Sub-cloud rain cyaporation model		Formatted	([204])
	Observed raindrop size distributions are used to initialize the sub-cloud rain evaporation model using aircraft data from flights		Deleted: ERUEC4A	
<u>130</u>	on 4, 5, 9 and 10 February. This one-dimensional steady-state model is used mainly to (a) estimate the amount and vertical		Deleted: (BaileyHYPERLIN	JK \l "_bookmark2"F [207]
	distribution of water vapor, and the equivalent latent flux produced by the evaporation of raindrops of 125 µm-6 mm diame-	WW	Formatted	[205]
	ters, and to (b) estimate the change in precipitation isotope ratios δD_P and $\delta^{18} O_P$ of the raindrops during evaporation. The	$//M_{ m A}$	Formatted	[206]
	model follows the numerical isotope-evaporation model described in detail in Pruppacher et al. (2010). Graf et al. (2019) and		Formatted	[208]
	Salamalikis et al., (2016) and predicts vertical variations in the size, temperature, and isotopic composition (δD_D and $\delta^{18}O_D$) of	M	Formatted	[209])
135	raindrops,		Formatted	([211])
	Cloud base in the model is deduced from ceilometer observations aboard the Brown. The 10-minute resolved ceilometer		Formatted	([210])
	observations (Quinn et al., 2021) show that the median cloud bases on 4, 9 and 10 February are between 700-800 m. Conse-		Deleted: diameters	
	quently, the raindrops are initiated from a 700 m cloud base and modeled to fall through a sub-saturated sub-cloud layer. The		Formatted	([212])
			Deleted: Deleted: Graf et al.	
4.40	relative humidity, at cloud base is assumed to be 100%, decreasing linearly towards the surface (verified from the dropsonde		Formatted	
<u>140</u>	observations, figure A3) with surface relative humidity varying from 65%-80%, as determined from nearby dropsonde observa-		Formatted	([213])
	tions. The sub-cloud layer is well-mixed with an average specific humidity from dropsondes varying within 13-15 g/kg across		Deleted: (2019)HYPERLIN	([214])
	the sub-cloud layer (figure A3), The rain water content (RWC) is computed at cloud base using the stitched CIP/PIP-based		Formatted	
x	raindrop size distribution.		Deleted: (2016)	([216])
	The model is integrated downward from the initial condition at cloud base. A nominal step size (Δz) of 1 m is used, but		Formatted	([217])
<u>145</u>	an adaptive step size is employed to ensure the stability of the explicit time integration method. The adaptive time stepping is		Deleted: incorporates	([217])
	active for droplets smaller than about 1 mm. Following Graf et al. (2019), the raindrop diameter evolves according to:		Formatted	([218])
	$ \frac{dD}{dz} = \underbrace{4(F_v D_{va})}_{Pv \rho_w R_u} \underbrace{R_H e_{vsat}}_{R_u} = \underbrace{e_{r,sat}}_{r_r} $ $ (1)$		Deleted: drop	([210])
•	dz Dvp_vR_v T_a T_r		Formatted	([219])
	where,		Deleted: and drop	([217])
	F _P (unitless): mass ventilation coefficient,		Deleted: . Any collision-coales	scence process for rai [221]
<u>150</u>	D ₁₀ (m ² s ⁻¹); diffusivity, of water vapor in air,		Deleted: other raindrop-cloud	
	R_{v} (461.5 Jkg ⁻¹ K ⁻¹): gas constant for water vapor,		Formatted	([220])
	RH (%): relative humidity,		Formatted	([222])
	ev.sat, er.sat (Pa); saturation vapor pressure at ambient temperature and drop surface,		Moved (insertion) [4]	
	$T_{\underline{\alpha}}$ (K); ambient temperature		Formatted	([197])
<u>155</u>	T_r (K); raindrop surface temperature,		Formatted	([198]
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D (m); raindrop, bin, diameter,		Formatted	([249])
v (m/s); raindrop terminal velocity		Deleted: and vertical height-	[251]
ρ_w (103 kg/m³): density of water,		Formatted	[250]
z (m): altitude.	/	Deleted: :	
		Formatted	[253]
160 The vertical variation of T _a is given by (Graf et al. (2019)):		Formatted Deleted: +	([252])
$\frac{dT_r}{dz} = \frac{12F_hk_a}{D^2\rho_wc_wv} \left(\left(RH_r \frac{e_{v,sat}}{T_a} , \frac{e_{r,sat}}{T_r} \right) \left(\frac{F_vD_{va}L}{F_hk_aR_v} \right) - \left(\frac{T_r}{T_r} - T_r \right) \right) $ (2)	-		
$dz D^2 ho_w c_w v \qquad I_a \qquad I_r P_h K_a K_v \qquad , \qquad a$		Formatted	([255])
Where, E. (writteen), heat contribution and Wainst		Formatted Formatted	([256])
Fa (unitless): heat ventilation coefficient,	<u> </u>	Formatted	([254])
k _a (Jm ⁻¹ s ⁻¹ K ⁻¹); thermal conductivity of air.		Formatted	([257])
$\underline{c_w}$ (4187 $\underline{Jg^{-1}K^{-1}}$): specific heat of water, and		Formatted	([258])
$L (2.25 \times 10^3 \text{ J/g})$: latent heat of vaporization.		Moved (insertion) [6]	([259])
While each raindrop size bin (indexed by i) has its own diameter (D_i) , temperature $(T_{r,i})$, fallspeed (v_i) and vapor pressure		Deleted: →	$\overline{}$
(e _{r,sat,i}), the subscripts showing the bin index (i) have been dropped in the equations above for clarity. Note also that size of		Formatted	
raindrops in each bin $D_i(z)$ varies with height, and the number of droplets in that bin, $N(D_i)$, remains fixed at for all heights			([260])
until the droplets evaporate, which is assumed to occur when $D_i(z) < 1\mu m$.		Moved up [6]: where Moved (insertion) [7]	\longrightarrow
The calculated D at vertical level z is then used to model the steady-state RWC (gm ⁻³) at z using:	- 4	Deleted:	
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$RWC = \frac{\pi_{Q}}{6} \underbrace{N(D)D_{3}}_{M} \tag{3}$		Formatted	([261])
<i>j</i> =1		Formatted	([266])
The precipitation flux $F_p(z)$ (Wm ²) at each level \underline{z} for bin index \underline{i} is modeled using:		Deleted:), k _a (Jm ⁻¹ s ⁻¹ K ⁻¹), c _w (Jg ⁻¹ K	([267])
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$F_{p}(z) = \frac{\pi}{6} \rho_{w} I_{p} \frac{1}{2} \underbrace{N(D)D_{q}^{q}}_{i} \tag{4}$	_3	Formatted	([269]) ([271])
i=1		Formatted	
175 The rain evaporation flux produced as the Δz m ³ box falls through Δz depth is given by $F_{\varepsilon}(z)$ (Wm ² m ⁻¹) at level z using		Formatted	([270]) ([262])
$\partial F_p(z) = F_p(z) - F_p(z) - \Delta z$	- ∢	Formatted	([263])
$F_{\mathcal{E}}(z) = -\frac{\partial F_{\mathcal{E}}(z) - F_{\mathcal{E}}(z) - F_{\mathcal{E}}(z) - \Delta z}{\partial z} $ (5)	-	Deleted: water density,	([203])
The total rain evaporation flux produced over the entire sub-cloud layer F_{eT} (Wm ⁻²) is obtained from:		Formatted	([272])
		Formatted	([264])
$F_{eT_{i}=v} = \frac{\frac{\pi^{00m}}{\partial F_{p}(z)}}{\frac{\partial Z}{\partial z}} \frac{dz}{dz} = \frac{T_{ped_{i}} - T_{ped_{i}}}{F_{ped_{i}} - T_{ped_{i}}}.$ (6)		Deleted: , respectively	([=0.1])
$F_{eT_n} = \frac{\partial}{\partial z} dz = F_{e(z)} dz = F_{p_e ch_n} - F_{p_n sf_n} $ (6)		Formatted	([265])
		Formatted	([274])
Rain evaporated fraction (REF) is the fraction of rain evaporated in the sub-cloud layer and is computed based on F_{eT} and		Formatted	([273])
180 $F_{p,cb}$ by:		Deleted: 140	
$\frac{REF = \frac{F_{eT}}{E}}{E}$		Deleted: 23	
F_{P_1cb}		Formatted	([275])
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To model the isotopic composition of the precipitation, the vertical change in $\delta_{\rm R}$ (%) of raindrops as they evaporate is given, by (Graf (2017)), $=\frac{12e_{r,sat}F_{v}D_{va}}{\rho_{w}R_{v}D^{2}T_{r}v}\times\underbrace{[(\overset{D_{ra}}{D_{va}})^{n}((\delta_{va}+\mathbf{10}^{3})RH\frac{e_{v,sat}T_{r}}{e_{r,sat}T_{a}}\underbrace{-[(\overset{D_{r}}{D_{v}}+\mathbf{10}^{3})}_{a_{P_{v}}-v}))_{*}^{-}(\delta_{p_{v}}+\mathbf{10}^{3})(RH\frac{e_{v,sat}T_{r}}{e_{r,sat}T_{a}}\underbrace{-1]}_{*}]}$ where δ_{D} applies to both δD_{D} and $\delta^{18}O_{D}$ and $\delta^$ the influences of both evaporation of raindrops and the exchange of isotopes between raindrops and ambient vapor during equilibration, δ_{va} is the mean ambient water, vapor, isotope, ratio, expressed in permil (%), obtained from isotope, ratio, observations 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. The rain isotope ratios used to initialize δ_n are determined using in-situ water vapor isotope ratios and the measured temper-190 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 $(a_{p_c} > a_v = (\delta_p/1000 + 1)/(\delta_v/1000 + 1))$, as defined in Majoube (1971) The modeled δ_p at the surface is later compared with the surface rain isotope ratio observations from the BCO, the Brown and the Meteor to validate the accuracy of the model. Because isotope ratios are typically measured in bulk precipitation, we evaluate the mass-weighted isotopic composition of 195 the integrated raindrop size distribution in the simulations. This is done by integrating δD_D and $\delta^{18}O_D$ over the observed RSD to estimate the mean (mass-weighted) δD_p and $\delta^{18} O_p$ at each vertical level z following: $\underline{\delta_p(z)} = \frac{\underline{L_{23}}}{\underline{L_{23}^{i=1}}} \underbrace{\frac{N(D_i)D_i^3 \delta_{p,i}}{t}}_{i=1} \underbrace{N(D_i)\underline{D_3^3}}_{N(D_i)\underline{D_3^3}}$ (9) The deuterium-excess or $d_{\rm p}$, a quantity useful in sub-cloud rain evaporation analysis, is defined as $d_{\rm p} = \delta D_{\rm p} - \delta^{18} O_{\rm p}$. $\delta D_{\rm p}$ 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 $\delta D_{\rm B}$ and $\delta^{18}O_{\rm B}$ 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 Δq_p (gm⁻³) can be estimated by assuming an appropriate integration time t(s): $\Delta q_v = \frac{\mathbf{r}}{L} \frac{F_e}{dt}$ (10)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): $\delta_{v} = \frac{\delta_{e} \Delta q_{v} + \delta_{va} q_{va}}{\Delta q_{v_{v}} + q_{va}}$ (11) Formatted [328] Formatted ... [330] Formatted . [329] Deleted: . Deleted: (... [331] Deleted: Di Formatted (... [333] Formatted [332] Formatted [336] Formatted (... [337] Deleted: <object><object> Formatted (... [335] Formatted (... [334] Deleted: <object><object> Deleted: <object> Deleted: (... [338] Formatted (... [341] Deleted: with **Formatted** (... [342] Deleted: Formatted [343] Moved up [7]: ¶ Formatted [339] Moved (insertion) [8] Deleted: ¶ [340] Moved (insertion) [9] Deleted: effects Formatted (... [344] Formatted [349] Formatted [350] Deleted: ‰. Formatted (... [351] Deleted: in-situ mean 150 m level **Deleted:** observations.observa- tions at 150 m altitu ... [353] Formatted (... [352] Formatted [345] Formatted (... [346] Deleted: at cloud base Deleted: temperature Formatted (... [354] Formatted (... [355] Deleted: (Risi et al., Deleted: 2020) Formatted [356] Formatted (... [357] Formatted [358] Deleted: (=(Formatted

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Formatted ... [379] Formatted [380] where, $\delta_{e_a} \delta_{va}$ and δ_{va} are the isotope ratios (%) of the evaporated rainwater, ambient water, vapor, prior to rain evaporation Formatted ... [381] and total water vapor post rain evaporation at level z, respectively. Δq_v is the result from equation 10 and depends on both Deleted: 50 m level i.e. the length of time over which rain evaporation is presumed to occur and on the assumption that the fluxes derived from the Formatted (... [383] steady-state rain evaporation model are constant over the integration interval. Formatted ... [382] 215 $\delta_e(z)$ is computed from the difference between the product of δ_{Pb} and RWC at every Δz depth using Formatted ... [385] δ (z) $\delta p(z)RWC(z) - \delta p(z - \Delta z)RWC(z - \Delta z)$ Deleted: 50 Deleted: 50 Microphysical parameters using lognormal fitting Formatted [386] Formatted (... [387] The role of microphysical processes in influencing modeled rain evaporation and rain isotopic composition is investigated Formatted [384] Formatted in terms of the total raindrop concentration (N_0) , geometrical mean diameter (D_0) , and the lognormal distribution width (σ) (... [388] **Deleted:** (11)¶ 220, at the sampling level. These parameters (N_0, D_0) and σ provide physically meaningful quantities to interpret microphysical Formatted (... [389] conditions of rain, and are helpful in evaluating the sensitivity of rain evaporation to microphysical changes. These are derived Deleted: q_e by, fitting, the observed, RSDs to a lognormal distribution (Feingold and Levin (1986)) following: Formatted (... [391] Formatted (... [392] $N(D) = N_0$ $\frac{1}{2} \frac{\sqrt{\frac{1}{2}} \exp(-(\ln D_i - \underline{\mu})_2)}{2\pi \ln^2 o} \frac{\sqrt{\frac{1}{2}} \exp(-(\ln D_i - \underline{\mu})_2)}{2\pi \ln^2 o}$ (13)Formatted [390] Deleted:Section Break (Next Page) ... [393] Moved up [8]: 185¶ where μ_a is the log of D_{q_a} (i.e. $D_{q_a} = e^{\mu}$), N(D) substituted into equation 4 gives: (... [394] $225 \quad F = N \quad \frac{1}{23} \quad \pi \quad L \quad V \quad 1 \quad exp(\frac{-(\ln D_i - \mu)_2}{2\pi \ln^2 \sigma}) D^2 U.$ Deleted: Column Break [396] (14)Formatted [395] Formatted (... [397] Notice that when $N_a(D)$ is substituted into equation 9 for δ_D , N_0 cancels in the numerator and denominator making δ_D (δD_D Formatted [399] Formatted and $\delta^{18}O_D$) independent of raindrop concentration and only dependent on D_a and σ . Similarly, REF is also almost independent [398] Deleted:, and of N_{0} Formatted For simplicity, collision-coalescence (i.e., raindrop self-collection) and breakup processes are ignored, as is the impact of [400] Deleted: lognormal distribution following: [401] 230 turbulence and mesoscale variability. We have assumed that the N_0 , D_a and σ sampled at the in-cloud legs represent the cloud Formatted ... [402] base precipitation well. This assumption is backed by the small difference between the observed N_0 , D_q and σ for a given rain Deleted: 1 rate whether it is sampled at cloud base or higher (Figure 5). This result is similar to Wood (2005) whose result suggest that Column Break .. [406] Deieteu. rain rate is near constant in the lower 60% of stratocumulus clouds. Formatted (... [405] Formatted (... [407] 3 Results Formatted [408] Observed rain characteristics Formatted [403] The 10-minute (1-Hz) horizontal leg mean rain rates sampled for 20 out of the 22 cases on 4, 5, 9, and 10 February, (Figure Formatted (... [404] 3) vary between 0.01-3, mm/day, with rain frequency, between 1-10%, The other two cases have more intense rain rates of 22 Deleted: <object><object> Formatted [409] Formatted (... [410]) Formatted (... [411] Moved (insertion) [15]

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Formatted (... [441] Moved (insertion) [18] mm/day and 31 mm/day and rain frequencies of 10% and 50% respectively, sampled on 9 February at 1630 m and 2112 m Deleted: altitudes. The leg-mean rain rates are calculated using the 1-Hz samples with rain rate, higher than 0.01 mm/day, Rain frequency. Formatted ... [442] is defined as the ratio of the number of raining samples to the total number of raining and non-raining samples within a 10-Formatted (... [451] minute, horizontal leg, Overall, barring two cases, the rain rates sampled over 20 horizontal legs by the P3 are weak, and Formatted [452] comparable with rain usually witnessed in stratocumulus clouds. Deleted: over The highest, and lowest rain rates, were observed on 9 February (31, mm/day), and 4 February (0.01, mm/day), respectively, Formatted ... [453] The low, rain, rates, on 4, February are, due, to the higher, concentration of small, raindrop, diameters, (<200, µm), and almost no Deleted: raining raindrops larger than 500 µm, as compared to the other days, Similarly, the higher rain rates for the two cases on 9 February Formatted (... [454] are due to the high concentrations of larger drops compared to other cases. Seven out of the 22 cases were sampled within Deleted: (±100 m of cloud base (700 m) while the other cases had sampling altitudes higher than 1.3 km, No, rain, was detected at any, of Formatted (... [455] the, 150-m, altitude, legs, (except, one, case, on, 9, February), suggesting that rain either, evaporated, completely, before, reaching, the Deleted: > Formatted [... [456] surface or was not sampled when it reached the surface. Deleted:) only and the rain Vertical and horizontal variability in rain structure is evident in the radar images (Figure 4), which reveal heterogeneous cloud 250 Formatted (... [457] bases and some heavy precipitation pockets with radar reflectivity higher than ±10 dBZ. These heavier precipitating samples Formatted (... [443] partially, evaporate, before reaching the surface. The more weakly precipitating segments, with smaller radar reflectivities, Formatted (... [444] evaporate completely within the sub-cloud layer. Vertical changes in rain structure are also evident from in-situ observed RSDs Deleted: Seven out of the 22 measured at different altitudes within the same cloud system. For example, on 9 February the RSDs shift towards smaller drop Formatted (... [458] sizes as sampling altitudes decrease from 2112 m to 1630 m to 1500 m to 1053 m (Figure 3c), which could be due to both Deleted: were microphysical and thermodynamic processes in the cloud Jayer. Formatted ... [459] Observed microphysical and thermodynamic variability, compared with CSET and RICO Deleted: within ±100 m of cloud base (700 m) com-[460] Formatted [461] A strong positive correlation is observed between the rain rates and microphysical parameters N_0 , D_0 and σ at cloud base Deleted: other cases where sampling altitudes were . [462] (Figure 5a-c), The higher D_g and σ indicate a higher concentration of larger drops, which account for more liquid water, and Formatted . [463] higher rain_rates, While D_{a_0} and σ_a vary modestly (σ by approximately a factor of two), N_0 varies by several orders of magnitude **Deleted:** Comparatively ...imilarly, the higher rain ... [464] over the 22 P3 cases with rain rates between 0.01-35 mm/day. The 1-Hz distributions of N_0 , D_0 , σ and rain rates are plotted in Deleted: much higher raindrop Figure 6 to give an overall microphysical statistical characterization for all the P3 cases, The variability in the rain parameters Deleted: and bigger drop sizes is the lowest on 4 February and highest on 9 February. The P3 cases also show a weak negative correlation between surface Formatted (... [465] relative humidity (RH_{sf}) and rain rate (Figure 5d). This may be due to the downdrafts drying the surface layer and lowering Formatted [466] Moved (insertion) [19] RHsf. 265 Formatted (... [445] **CSET** comparison Formatted (... [468] Compared to the average P3 cases, the cumulus rain events sampled over 5 cases during the CSET campaign in the Northeast Formatted (... [467]) Formatted (... [446]) Pacific, Ocean have, higher rain rates, (1-100 mm/day), along with higher N_0 , $(103 \text{-}2 \times 104 \text{m}^{-3})$, and σ (2.3) (Figure 5a), However, Formatted (... [447] the average D_{a} for the CSET cases lies within the P3 ranges (Figure 5b-c). Since D_{a} and σ did not vary significantly across Formatted ... [469] the five CSET cases, the higher rain rates during CSET could be due mainly to their larger N_0 . Formatted ... [471] Formatted (... [470]) Deleted: e.g. figure 4), Formatted (... [472] Deleted: -Deleted: sam- ples Formatted (... [473]) Formatted (... [474]) Deleted: figureFigure 3c),...HYPERLINK \1 ... [475]

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Ĺ	4 out of 5 cases during CSET have RH ₃ of 84% which is higher than for most of the P3 cases. The correlation between	_(Moved (insertion) [22]	
***************************************	RH _{sf} and rain rate during CSET is much weaker compared to the P3 cases (Figure 5d). RH _{sf} for CSET remains constant	(Formatted	[517]
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	at 84% for rain rates from 1 mm/day to 100 mm/day. That said, it is worth noting that RH _{SC} measurements during CSET	/	Formatted	[519]
A	were collected using aircraft observations at 150 m altitude and, therefore, might differ slightly from the actual surface relative		Moved (insertion) [23]	
<u>275</u>	humidity.		Formatted	[520]
	The F_{eT} during CSET within some heavily precipitating cumulus transects are between 10-200 Wm ⁻² , comparable to the		Formatted	([521])
	P3 F_{eT} range of 1-350 Wm ⁻² . The high variability in F_{eT} for both the P3 and CSET events suggests that the heterogeneity of	$/\!/\!/$	Formatted	([522])
	the cumulus rain processes is a common feature across different ocean basins.	///	Formatted	[528]
	RICO comparison	///	Formatted Formatted	([523])
¥	ACC COMPARISON	7 <i>/</i> 2		[529]
280	During the RICO campaign, which was based in the Carribean like the ATOMIC/EUREC4A field campaigns, rain rates sam-	I/λ	Deleted: ATOMIC. Geoffroy et al. (2014) Formatted	
	pled were stronger than the P3 cases, as in CSET. The cloud base rain rate is 5 mm/hr during RICO (Figure 2, Geoffroy et al.	///	Deleted: ¶	([530])
	(2014)). Comparing Figure 6 with Figure 2 in Geoffroy et al. (2014), the median rain rates, No and raindrop diameters during	4/7	Formatted	
	RICO at cloud base were much higher than the P3 cases sampled during ATOMIC. Geoffroy et al. (2014) have used mean	// / ?	Deleted: 300m ⁻³ and 0.4 mm/day respectively s	[531]
	volume, diameter, Dv, to describe, the variability, of their, raindrop, sizes, which, is, mathematically, different, but, still, comparable,		Formatted	
285	$t_0 D_a$, that we have used in this study. D_a at 500 m during RICO is 750 μ m which is much higher than D_a of 200 μ m during	/ ///	Formatted	([524])
	the P3 cases, Similarly, the median, No, and rain rates during RICO are, 6, ×, 104m, 3, and 12, mm/hr, at 500, m, altitude compared	1/16	Formatted	([534])
	to $2 \times 10^3 m^{-3}$ and 3 mm/day, respectively, averages over all the 22 P3 cases. This suggests that the higher rain rates sampled	// //	Formatted	([535])
	by RICO could have been due to the high N_{Ω} and D_{U} compared to that sampled by the P3.	/ //	Deleted: <#>Microphysical influences	([536])
	All flights during RICO were designed to randomly sample clouds above cloud base (except one on 19 January), and, as a	M	Formatted	([537])
000		Ш	Moved up [20]: 260¶	([337])
<u>290</u>	result, most flights did not sampling any precipitation. But the precipitation sampled on 19 January suggests a 6% reduction of		Moved up [21]: ¶	$\overline{}$
	cloud base rain rate (3 mm/hr) due to rain evaporation (Snodgrass et al., 2009). This roughly translates to 130 Wm ⁻² of rain	////	Moved up [22]:	$\overline{}$
	evaporation flux (based on Figure 10 in Snodgrass et al. (2009)) and is comparable to the CSET and the P3 values.		Deleted: ¶	
	Modeled, rain, evaporation, in, the, sub-cloud, layer	W/ À	Deleted: Column Break	
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	Vertical distributions of RWC and F _e	-(Formatted	([539])
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295	The sub-cloud variability, in the rain evaporation over the 22 cases from ATOMIC/EUREC4A is reflected in the vertical profiles	. Y	Formatted	([526])
	of the modeled RWC, rain rate, and F _E in Figure 7d-f. Cases on 9 February, with their highest rain rates and RWC at cloud base	1	Deleted: rates calculated from the observed RS	
	also have the highest RWC reaching the surface (>0.02 gm ⁻³). (See Figure 7d-e.) In all, 10 out of 22 cases have RWC higher	MX	Deleted: in-cloud legs	
	than 10 ⁻³ gm ⁻³ at the surface, 4 of which are on 9 February	M/X	Formatted	([541])
	In contrast, one case on 4 February evaporates completely within 400 m from cloud base with no rain reaching the surface.	1//	Formatted	([542])
<u>300</u>	This is because all drops in the RSD for this case is smaller than 300μ m (Figure 3a), and smaller drops are more susceptible to	1/	Formatted	([543])
	evaporation. The cases on 5 and 10 February have RWC ranging between those on 4 and 9 February, with rain intense enough		Formatted	[540]
	to reach the surface after partial evaporation.		Deleted: modeled rain rates in the sub-cloud lay	yer. The
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L	10		Moved (insertion) [24]	
l *			Deleted: q _e	
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			Deleted: figures A1-A3. The	
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RWC decreases at a faster rate for cases with smaller RWC at cloud base, like on 4 February. This leads to an increase of F_e near cloud base compared to near the surface (figure 7f). Conversely, cases with higher RWC at cloud base like on 9 February 305 have slower rate of decrease in RWC near the cloud base. This is primarily due to the higher concentration of larger drops in these cases that evaporate the most as they reach closer to the surface.

Vertical distributions of N_0 , D_g and σ

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The modeled microphysical parameters N_0 , D_a and σ are shown in Figure 7a-c, where 9 February cases have the highest cloud base N_0 (>1000 m⁻³). The decrease in N_0 with decreasing altitude corresponds well with that in RWC seen earlier.

The net modeled D_q increases and σ decreases from cloud base to the surface across all the 22 P3 cases. Changes in D_q and σ are much smaller than in N_0 . In general, D_q increases and σ decreases whenever smaller drops in the RSD evaporate completely. In this way, complete evaporation of smaller drops make the RSD narrower and centered over larger D_q . In contrast, if the RSD only has larger drops that only partially evaporate, then the D_a decreases and σ increases making the RSD wider. and centered over smaller D_a .

The higher terminal velocity for bigger drops helps them reach the surface faster, while the longer residence time of slowerfalling smaller drops in the subcloud layer leads to more complete evaporation of those drops. Thus the lower terminal velocity aids in the overall shift of the RSD towards larger D_a , narrower σ and lower N_0 from cloud base to the surface.

Sub-cloud stability due to the vertical distribution of F_e

How bottom- or top-heavy a profile of Fe is may have an effect on the boundary layer stability. For example, if most moisture from the rain evaporation is closer to cloud base than to the surface (top-heavy profile), then the evaporation-cooled air near cloud base could mix with the surface-based relatively warmer air more readily. This could potentially help in circulating the surface moisture to cloud base and help the cloud stay intact.

In contrast, a bottom-heavy rain evaporation profile, where the maximum evaporation-produced moisture is concentrated close to the surface could lead to a stable configuration. This is because the cooler air close to the surface is not invigorated to mix with the relatively warmer air close to the cloud base. This could inhibit any mixing or vertical transport of moisture from the surface to the cloud base. Such profiles should be more susceptible to cloud dissipation and boundary layer decoupling and may promote the formation of cold pools. Examples of such top- and bottom- heavy profiles, with their relation to boundary layer stability are discussed in Paluch and Lenschow (1991). In this study, we have used the modeled Fe profiles to differentiate between top- and bottom- heavy profiles.

To assess which of the 22 P3 cases are top- or bottom-heavy, we have summed up F_E over the bottom 350 m (surface to 350 m altitude) and the top 350 m (350-700 m altitude) to obtain F_{top} and F_{bottom} , respectively. The ratio of F_{bottom}/F_{top} for all the cases are calculated (Figure 8). F_{bottom}/F_{top} denotes bottom-heavy profiles and F_{bottom}/F_{top} top-heavy profiles. All the cases on 4 February and one on 5 February where most of the rain evaporated within 100 m from cloud base have Fhottom/Ftop of 0-0.2 and are therefore top-heavy. In total, 11 out of 22 cases have a top-heavy profile, making it more likely for these cloud layers to remain connected with the surface layer.

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The evaporated fraction of rain, which is computed as 1- R_z/R_{cb} , where R_z and R_{cb} are the rain rates at altitude z and at cloud base, respectively, is also strongly sensitive to Dg and σ . This is because the effect of No nearly cancels out when normalizing the rain evaporated with the rain at cloud base. All told, 70-95% of rain evaporates before reaching the surface for the four 9 February cases. The two smallest σ cases at cloud base correspond with evaporated fr [555]

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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 $\underline{F_e}$ structure is dependent on the microphysical state at cloud base, F_{bottom}/F_{top} should also be dependent on the microphysical parameters N_0 , D_0 and σ . To demonstrate this here, we have determined the correlation of N_0 , D_0 and σ at cloud base with F_{bottom}/F_{top} for each case (Figure 8). A strong correlation is found between F_{bottom}/F_{top} and D_q and σ . Comparatively,

340 F_{bottom}/F_{top} and N_{o} correlate weakly. This might be because the net effect of N_{o} gets canceled in the numerator and denominator of F_{bottom}/F_{too} . In all, over the 22 cases, the bottom-heavy sub-cloud profiles, that could be prone to cloud breakup and boundary layer decoupling, have higher D_q and σ at cloud base. Conversely, the top-heavy profiles, that could facilitate more intact clouds and higher mixing with the surface layer, have smaller D_q and σ at cloud base.

A lower RH_{sf} is also modeled to produce more top-heavy profiles (smaller F_{bottom}/F_{top}), and vice-versa (Figure 9). This 345 is because the lower the RH_{sf} is, the faster the evaporation rate of drops, leading to the accumulation of moisture and latent flux closer to the cloud base and thus a top-heavy profile.

In summary, high D_{qs} σ and RH_{sf} 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.

Microphysical and thermodynamic influence on F_{eT} and REF

affirm this connection in a robust way.

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REF in the sub-cloud layer is useful to determine the amount of rain reaching the surface and to formulate the amount of F_{eT} . F_{eT} , 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_{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 σ (correlation coefficient=-0.7 and -0.8 respectively). The higher the D_q and σ at cloud base, the smaller the REF (Figure A2f,h). This is because a higher D_q and σ 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_g and σ 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_0 on REF is smaller compared to D_0 and σ (Figure A2d). This is because 360 when REF is expanded in terms of N_0 , D_0 and σ , N_0 appears in the numerator and denominator and almost cancels out.

 F_{eT} , on the other hand, is strongly impacted by N_0 (as well as D_g and σ). This is because F_{eT} is proportional to N_0 . In short, while the influence of N_0 is not prominent in REF, its influence dominates F_{eT} . Most of the P3 cases with higher D_a and σ also have higher N_0 . Due to this, lower REF cases are mostly correlated with higher F_{eT} . But in some cases like on 9 February, D_g and σ are small but N_0 is large, leading to large REF and large F_{eT} . Similarly, two cases on 10 February, have 365 large D_q and σ but small N_{D_q} leading to small REF and small F_{eT} . Overall, the link between REF and F_{eT} may not be linear due to the underlying microphysical processes. More microphysical observations over shallow rain datasets are required to

b) Thermodynamic influence: The correlation of REF with RH_{sf} is not as strong as with the microphysical parameters (Figure A2a-b). But in a sensitivity study, where the microphysical parameters are fixed and RH_{sf} is varied in 10% interval

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This is also shown by Salamalikis et al. (2016) who calculated the increase in δD_p and $\delta^{18}O_p$ for drops 1 mm-3 mm in diameter falling from altitudes (≈1500 m) higher than this study (700 m). For a 1 mm raindrop, 70% surface relative humidity,

and 303 K surface temperature, Salamalikis et al. suggest that the increase in δD_p and $\delta^{18}O_p$ is 48% and 8%, respectively (table 3, numerical isotope evaporation model in Salamalikis et al. 2016). Here, we find for a 1.1 mm raindrop δD_p and $\delta^{18} O_p$ increase by 46% and 9%, respectively. For bigger drops, the difference between Salamalikis et al. (2016) and this study is larger. For a 2 mm diameter drop, the net increase in δD_n and $\delta^{18}O_n$ in Salamalikis et al. (2016) is 64% and 10%, respectively, which is higher compared to 27% and 5%, respectively, in this study. A case study in figure 2a of Salamalikis et al. (2016) where $\delta^{18}O_p$ is plotted with altitude for different raindrop sizes at temperature 278K and RHsf of 40% is replicated by our model to assess the consistency between our model and Salamalikis et al. (2016) (figure A6). The small inconsistencies might be because the paramet ... [558]

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Formatted: Header 370 jumps, a lower RH_{sf} is correlated with higher REF (figure 9), and vice-versa. Accordingly, a jump of about 10% in RH_{sf} Formatted: Space Before: 5.5 pt would be required to make a prominent change on REF. F_{eT} also increases as RH_{sf} decreases. As RH_{sf} decreases and the sub-cloud layer becomes drier, the rate of change in drop size increases ($\frac{dP}{dt}$ in equation 1). The sensitivity test suggests that for every 10% increase in RH_{sf}, F_{eT} decreases by $\approx 2-6$ Wm⁻². For 17 out of 22 cases, RH_{sf} is between 67-74%. The rest of the 5 cases are on 5 February and have higher RH_{sf} of 375 76-87%. Holding the microphysical parameters constant, an increase in RH_{sf} from 67% to 87% would decrease both REF and Deleted: Column Break Fer by 60% and 53%, respectively. The dependence of δ_n on D_a and σ but not on N_0 helps F_{eT} vs $F_{p,cb}$ Moved (insertion) [26] Formatted: Font: Arial A scatter plot between F_{p,ch} and F_{e,T} is shown for 20 of the 22 cases (Figure 8a). The other two cases are from 9 February where $F_{p,cb}$ is higher than 500 Wm⁻² and are not shown in the Figure for clarity. Five out of the 22 cases on 4 and 5 February, Formatted: Font: Arial, 11.5 pt where rain evaporates completely, have F_{eT} equal to $F_{p,cb}$. Otherwise, as $F_{p,cb}$ increases, F_{eT} tends to become smaller as a Formatted: Space Before: 0.15 pt fraction of F_{eT} , indicating that REF falls with increasing $F_{p,cb}$. The slope of $F_{p,cb}$ versus F_{eT} shown in Figure 8a 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_{eT} is between 15-352 Wm⁻² for 9 out of 22 cases. This is analogous to 2-50 K/day of net evaporative cooling rate for the sub-cloud layer, estimated using $\frac{\delta T}{\delta t} = \frac{1}{\rho_0 c_0} \frac{FeT}{H}$, with $\rho_{0s} c_{Ds}$ and H as density of air, heat capacity of dry air and cloud base height. This is comparable to a typical longwave radiative cooling rate Moved (insertion) [27] over the marine boundary layer depth of 4-10 K/day and therefore should significantly contribute to the boundary layer energy Formatted: Space Before: 3.2 pt budget in shallow convective environments where rain is present. Rain evaporation analysis using rain isotope ratios δD_{ρ} and $\delta^{18} O_{\rho}$ Formatted: Font: 10 pt Modeled δD_{ρ} , $\delta^{18} O_{\rho}$ and d_{ρ} for the P3 cases Formatted: Space Before: 0 pt Changes in δD_p , $\delta^{18}O_p$ and d_p are modeled for all the 22 P3 cases (Figure 7g-i). As rain evaporates in the sub-cloud layer, Moved (insertion) [28] the modeled δD_p and $\delta^{18} O_p$ increase and d_p decreases towards the surface. The decrease in d_p is caused by the preferential Formatted: Space Before: 0.05 pt evaporation of D in the water molecule owing to their lower mass and higher vapor pressure compared to ^{18}O , leaving the rain Moved (insertion) [29] less enriched in δD_p compared to $\delta^{18}O_p$. Formatted: Font: Arial, Not Bold The P3 cases with the higher modeled surface d_p have either high RH_{sf} (>75%) or large D_q and σ (compared to average Formatted: Font: Arial, 14 pt, Not Bold P3 values), or both. The model also shows a positive correlation between the fractional change in d_p from cloud base to the Formatted: Space Before: 0.3 pt surface $(1-d_{p,sf}/d_{p,ch})$ 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 $d_{\rm p}$ from cloud base to the surface. Comparison of model results with surface δD_{ρ} , $\delta^{18}O_{\rho}$ and d_{ρ} observations Formatted: Font: 10 pt The surface-based observations of δD_D , $\delta^{18}O_D$ and d_D from the Brown, the BCO and the Meteor are shown in Figure 10a-c. Formatted: Space Before: 0 pt $\underline{\delta D_P}$ for the BCO is slightly smaller than for the Brown and Meteor, and the Meteor d is slightly smaller compared to the BCO 400 Moved (insertion) [30] Deleted: <object> 13

Formatted [562] Moved (insertion) [31] and the Brown, but overall the observed δD_p , $\delta^{18}O_p$ and d_p ranges are between 0-20%, -2.5-1.2% and 4-18% respectively. Formatted [563] These ranges correspond well to the values shown across other platforms during the EUREC4A/ATOMIC campaign (refer to Formatted Bailey et al. (2023)). In particular, the rain sampled by the Brown was measured at RH_{sf} of ≈85% with rain rate of 1-5 mm/hr. Formatted This is considerably higher than the average P3 values. Formatted The modeled surface d_p for the four P3 cases with RH_{sf} higher than 73% (green histogram, figure 10c) is between 4-10 %. Moved (insertion) [32] and match the observed d_p range well. In fact, d_p for two cases on 9 February with high RH_{sf} of 86% is around 10 % that Formatted Formatted matches the Brown d_n observations most accurately. Moreover, when the rest of the P3 cases with observed RH_{sf} smaller than 73% (purple histogram) are all modeled to run Deleted: data Formatted at 85% to match the station observations, then the modeled surface d_n increase from -2-3 % to 6-10 % to match the station Formatted d10 observations as well (magenta histogram). This finding is also consistent with the idea that we would expect measurable rain Formatted with higher d_p to reach the surface when RH is higher. The evaluation of the model outputs against the station observations Moved (insertion) [33] lends credibility to our model. Formatted The modeled surface d_p is also higher for cases with larger D_q and σ at cloud base. This is because a higher D_q and σ Deleted: will corresponds to lower REF. This is demonstrated in Figure 11a where surface d_p is modeled for ranges of D_q and σ including Deleted: , 415 those observed by the P3 at a low RH_{sf} of 70%. As D_g and σ increase, the modeled d_p matches the Brown observations Formatted (yellow shade). Increasing RH_{sf.} to 85% further increases modeled surface d_p (Figure 11b). These experiments demonstrate Formatted the strong thermodynamic and microphysical influence of sub-cloud layer on the surface d_p . **Deleted:** δ_p will also be high, Note that d_p is independent of N_0 , and only depends on D_q and σ . This can explain why an 'amount effect' (Dansgaard, Formatted 1964) is not always present in low-latitude isotopic datasets. The amount effect suggests that for a given rain sample, if the Formatted 420 rain rate is high, then δ_p should be low, and vice versa. However, this may not always hold true for rain evaporation in all Formatted microphysical conditions, If N_0 is large, and D_0 and σ are small, rain rate, could still, be, high, due, to, its, strong sensitivity, to, N_0 . Moved up [27]: 385¶ Moved up [28]: 390 But, due, to the small D_q and σ , the δ_D will also be high, Similarly, if N_0 is small and D_q and σ are large, then both the rain rate Moved up [30]: 400 and δ_p will be low. Consequently, the amount effect may not be appropriate for describing rain evaporation, especially when the microphysical variability is pronounced. Deleted: ¶ 425 Water vapor isotope ratio variations Deleted: Column Break Deleted: ¶ Next, we assess whether raindrop evaporation during the P3 cases could cause a detectable isotopic change in the sub-cloud Moved up [31]: layer water vapor. The maximum simulated F_g, associated with 9 February, was 0.7 Wm⁻²m⁻¹, which corresponds to a Deleted: Column Break moisture flux of $3.1 \times 10^{-4} \, q/m^3/s$ (F_s). Over the course of a 15-minute rain shower, and neglecting dilution or advection, this Formatted flux would cause a change in absolute humidity of about 0.3 g/m³ ($\frac{Fe^{\times 9008}}{L}$). Since, the measured absolute humidity on this Formatted 430 day was 15 g/m3, these results indicate that rain evaporation may have contributed 2% to the moisture content of the sub-cloud Formatted

layer. Given the observed δD_u of -71 % and the simulated δD_g of 5 %, we can estimate the isotopic change in sub-cloud layer water vapor due to raindrop evaporation from equation 11, which yields an isotopic change of 1 \(\infty \). Since variations of 1 \(\infty \) <u>\(\delta D_v \)</u> 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.

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435 4 Conclusions and discussion

sub-cloud rain evaporation model initialized by observations from the EUREC4A/ATOMIC campaign. The focus is on 22 raining cases sampled by the P3 where the cloud base leg mean rain rates and RWC are between 0.01-31 mm/day and 0.0001-0.1 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.

This study evaluates shallow rain evaporation characteristics in the North Atlantic Ocean near Barbados using a one-dimensional

The total rain evaporation flux (F_{eT}) over the 22 P3 cases is modeled to be 15-352 Wm $^{-2}$ which is close to the 3-day mean 100 Wm $^{-2}$ latent heat flux at 200 m altitude that was measured remotely from aboard the Maria S. Merian, another

EUREC4A research vessel that sampled to the south of the P3 study region (Stevens et al., 2021). The F_{eT} for the P3 cases are also comparable with estimates from ASTEX (42 Wm⁻²), RICO (130 Wm⁻²) and CSET (10-200 Wm⁻²). These differences

and variability, especially between the P3 cases and during RICO and CSET, are a result of differences in their RH_{sf}, D_g , σ and N_0 in the sub-cloud layer,

shallow rain evaporation can contribute significantly to the local energy budget and sub-cloud cooling rates,

 F_{eT} of 15-352 Wm⁻² over a 700 m deep sub-cloud layer is equivalent to 2-50 K/day of evaporative cooling. This is comparable to the typical stratocumulus cloud top radiative longwave cooling (4-10 K/day) and with the rain evaporation cooling rate at cloud base in the marine sub-cloud stratocumulus deck of 2-20 K/day shown in Wood (2005). This shows that

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
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.

A top-heavy F_e profile is linked with lower D_g and σ at cloud base. This makes physical sense since a lower D_g and σ 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_g and σ 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.

Additionally, given constant microphysical parameters at cloud base, a top-heavy F_c profile is also linked with lower RH_{sf} . This is because lower RH_{sf} increases the rate of rain evaporation, especially for smaller drops, facilitating more accumulation of moisture close to cloud base. In contrast, higher RH_{sf} favors bottom-heavy F_c 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 P3 cases. Most of these cases with higher REF are associated with smaller D_g , σ and RH_{sf} , and vice-versa. However, the effect of RH_{sf} on REF is lower compared to D_g and σ .

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Moreover, if N_0 , D_g and σ are all large, then F_{eT} tends to be large and REF small, as seen for most of the 22 P3 cases. However, there are cases when D_g and σ are large but N_0 is small. This leads to small F_{eT} and small REF. A few cases also have small D_g and σ but large N_0 , resulting in fairly large F_{eT} and large REF. Effectively, therefore, the fraction of rain evaporated (or REF) and the amount of rain evaporated (or F_{eT}), 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 RH_{sf} , higher D_g and σ are prone to higher surface d_p . This is because a higher RH_{sf} and higher cloud base D_g and σ 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 $1-d_{p,sf}/d_{p,cb}$). 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 δ_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_g and σ , then the δ_p should be low due to small REF. But if the rain rate is high because of high N_0 and small D_g and σ , then δ_p should be high due to high REF. This is especially relevant for shallow rain regimes where microphysics plays a significant role indetermining 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 across the 22 P3 cases also highlights the need for more samples in similar shallow-cloud regimes for a more robust-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 sponsored by the National Science, Foundation under, Cooperative, Agreement, No., 1852977, The, NSF, support, for, EUREC4A-Iso, campaign is from NSF grant No. 1937780. PNB's contribution to this work was supported by the National Science Foundation under Grant AGS-1938108, We, acknowledge, the entire team of ATOMIC/EUREC4A 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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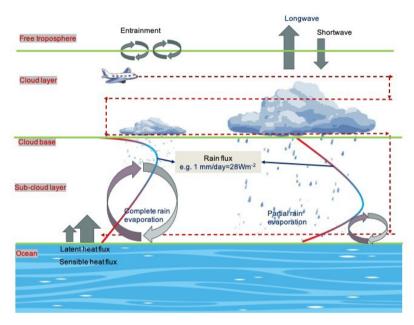


Figure 1. Schematic showing raining cumulus-topped boundary layer with surface latent and sensible heat fluxes, longwave and shortwave fluxes above cloud top, and entrainment mixing between free troposphere and cloud layer. Rain falling below cloud base can completely or partially evaporate, that can 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 mm/day rain rate evaporation is shown as 28 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.



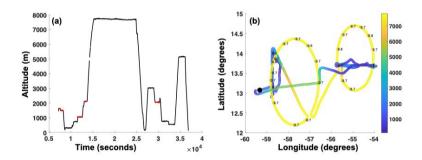


Figure 2. P3 trajectory on 9 February a) in time-altitude axes and b) in longitude-latitude axes with contour colors showing the altitude (in meter) of the P3. The red lines in a) denote the legs with mean rain rates greater than 0.01 mm/day, that are selected for this study. Numbers in b) denote the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

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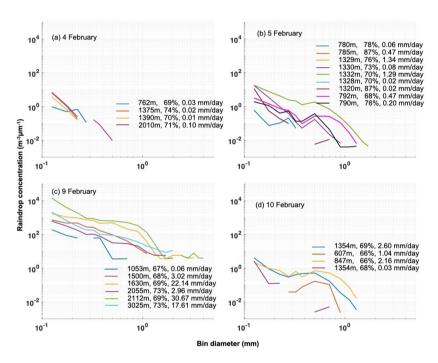


Figure 3. Raindrop size distribution is shown for 10-minute horizontal legs on a) 4 b) 5 c) 9 and d) 10 February. Legend shows the altitude of the horizontal legs, dropsonde-derived surface relative humidity and leg-mean rain rates.



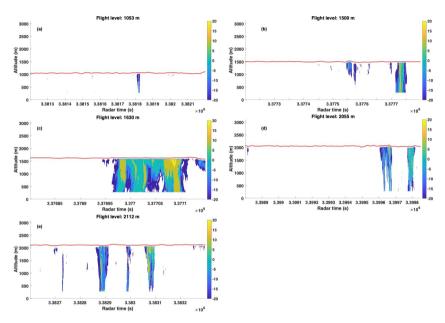


Figure 4. 94 GHz radar reflectivity in dBZ on board P3 on 9 February pointing downwards for all the six horizontal level legs shown in figure 2. Red line is the flight trajectory and contour colors show radar reflectivity.

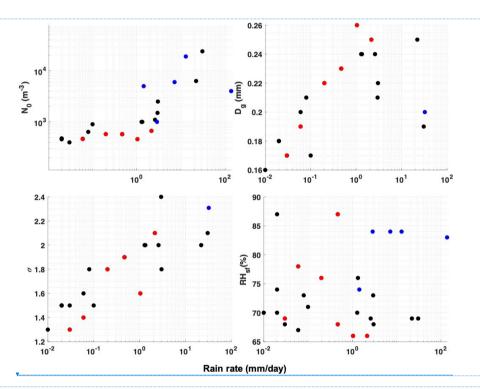


Figure 5, a), No., b), Do., c, and, d), RHs, are scattered against 10-minute leg mean rain rates for 22 cases observed by the P3., Red circles show the cases sampled at 700±100 m altitude, and black circles are cases sampled at altitudes higher than 800 m. Blue circles are for CSET, campaign obtained from Sarkar et al. (2020). Only the average D_q and σ over five CSET cases were available and are shown by single dots in b-c). No and RH_{sf} were available for five cases during CSET and are shown in a) and d).

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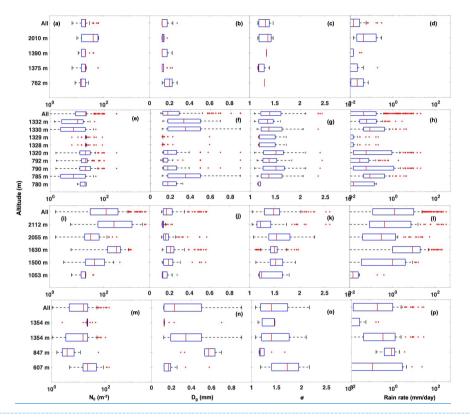


Figure 6, Lognormally, fitted 1-Hz rain parameters (a,e,i,m), N_0 , (b,f,j,n), D_g , (e,g,k,o), and g, and (d,h,l,p) rain rates are depicted as box-plots for all the 22 cases on (a-d), 4 Feb. (e-h), 5 Feb. (i-l), 9 Feb and (m-p), 10 Feb. The box plots denote 25th, 50th and 75th percentiles. The minimum and maximum extents of the whiskers denote the minimum and maximum data-points that are not an outier. Outliers are shown in red '+' symbols, Outliers are considered data points outside the +/-2.7×standard deviation and 99.3 percent coverage.

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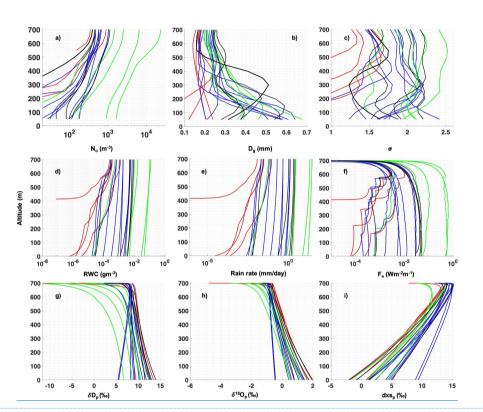


Figure 7. Modeled a_0N_0 , b_0D_0 , c_0p_2 , d_0RWC , e_0Rain rate, f_0D_0 , h_0D_0 , and h_0D_0 , and h_0D_0 , we height for all the 22 P3 cases, 4, 5, 9 and 10 February, cases are shown in red, blue, green and black lines respectively. The modeled RSD is averaged over every 50 m vertical length and then fitted using lognormal, distribution to obtain smooth N_0 , D_0 and σ vertical profiles.

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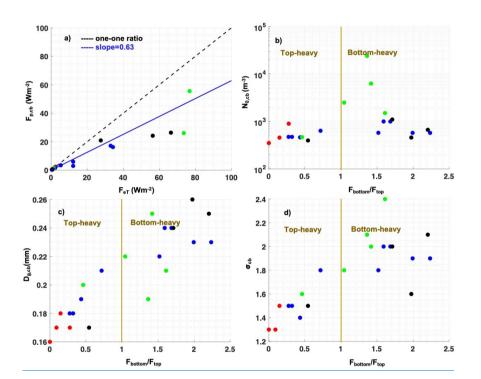


Figure 8. a) Rain flux at cloud base (F_{Reb}) is scattered against column total sub-cloud rain evaporation flux (F_{eT}). Only, 20 out of 22 cases are shown, excluding the highest two cases on 9 February with F_{eT} above 300 Wm⁻². The 4, 5, 9 and 10 February cases are shown in red, blue, green and 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_{bottom}/F_{top} ratio is plotted with b) $N_{o.cb}$, c) $D_{o.cb}$ and d) σ_{cb} . F_{top} and F_{bottom} are the summation of F_{ec} over 350-700m, and 0-350m, respectively. F_{bottom}/F_{top} higher than 1 denotes bottom-heavy and less than 1 denote top-heavy cases, as mentioned in gold letters.

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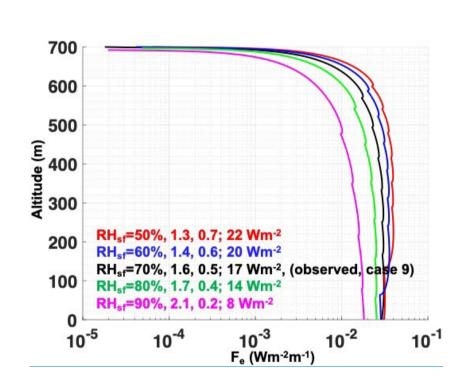
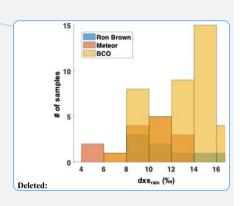


Figure 9. F_e profiles modeled with altitude for RH_{sf} of 50% (red), 60% (blue), 70% (black), 80% (green) and 90% (magenta), respectively. The F_{bottom}/F_{top} , REF and F_{eT} are mentioned following the RH_{sf} in the legend.



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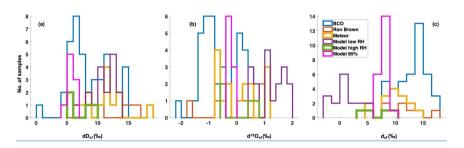


Figure 10. Histograms of surface a) δD_p , b) $\delta^{18}O_p$ and c) d_p observed for the Brown (red), Meteor (yellow) and BCQ (blue). The modeled values for the P3 cases with RH_{sf} less than 73% are shown in purple color (legend name: Model low RH). The modeled values with RH_{sf} higher than 73% are shown in green line (legend name: Model high RH). The modeled values for the 22 P3 cases run at 85% RH_{sf} is shown in magenta line (legend name: Model 85%).

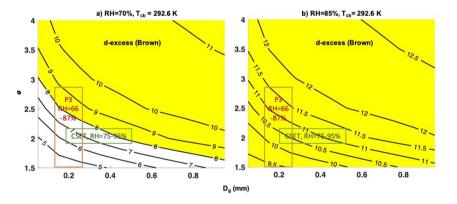


Figure 11. Contours of modeled surface d_0 is shown as a function of D_0 and ρ for RHs₀ of a) 70% and b) 85% d higher than 8% was observed by the Brown and is highlighted in yellow. The D_0 , ρ and RHs₀ observed during the 22 P3 cases and during CSET are shown in red and green boxes, respectively. The model for both the cases are run at δD_0 , $\delta^{18}O_0$ at cloud base, δD_{00} , $\delta^{18}O_{00}$ and $d_{0.00}$ of -76%, 1180, -71%, -10.6% and 12%, respectively.

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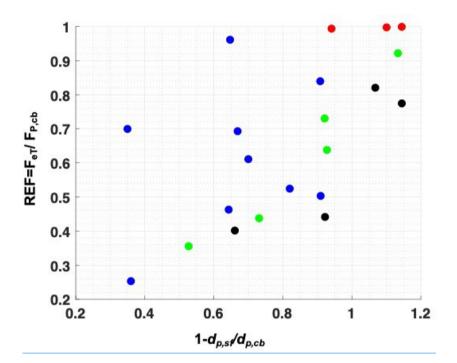


Figure A1, Modeled REF (=FeT/Fp.ch) scattered along the fraction of change in da between cloud base and surface (1-dp.st/dp.ch) for 21 out of the 22 P3 cases where the rain reaches the surface after partial evaporation. Color codes are red, blue, green and black for 4, 5, 9 and 10 February respectively,

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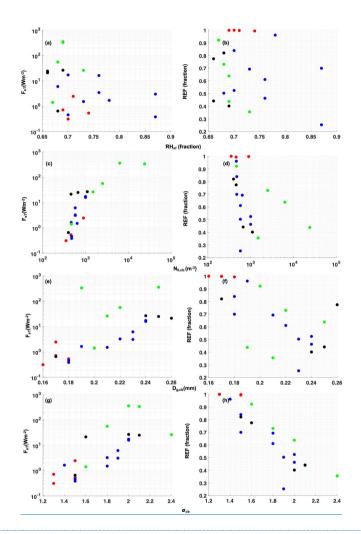


Figure A2. Scatter plots of F_{eT} and REF with a,b) RH_{Sf}, c,d) $N_{0,cb}$, e,f) $D_{g,cb}$, and g,h) σ_{cb} for 4, 5, 9 and 10 February coded as red, blue, green and black filled circles, respectively.

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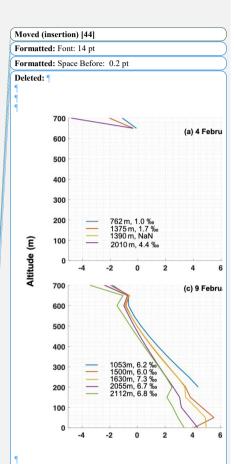


Figure A5. Modeled $\delta^{18}\mathrm{O}p$ plotted against altitude for 22 cases during a) 4, b) 5, c) 9 and d) 10 February. The legends show the altitude of each case followed by the difference in $\delta^{18}\mathrm{O}p$ between cloud base and surface.¶

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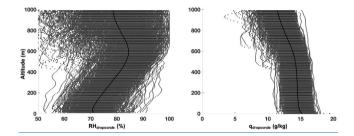


Figure A3. The relative humidity (RH_{dropsondes}) in percentage (left) and specific humidity (q_{dropsondes}) in g/kg (right) from the dropsondes plotted for all the P3 cases along the dropsonde altitude. The thick black lines are the mean values of RH and q calculated at each vertical level, and the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

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