

1. The cloud feedback





from Isabel McCoy (poster)



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2. The coupling to the circulation (e.g., to deep convection)



from Gabor Drotos' poster yesterday

from Vogel et al (2019, QJRMS), see also Nuijens and Emanuel (2019, QJRMS)

1. The cloud feedback

2. The coupling to the circulation (e.g., to deep convection) 3. The coupling to the surface (air-sea interaction) 4....



Wind-induced textures of the sea surface observed from C-Band radar (SAR imagery from Sentinel 1)

from Wang et al (2018)

### View on cloud organization from the impacts it may have

1. Cloud cover, cloud-radiative effects

- 2. Temperature and humidity lapse rates, cloud top and boundary layer heights
- 3. Non-local drivers of heat-, moisture and momentum fluxes at the surface 4. ...

nd boundary layer heights m fluxes at the surface

#### Discussion: should we view internal drivers of organization (precipitation) separate from large-scale drivers?



**Barbados Cloud Observatory** 





# Increased radiative cooling can be balanced by more precip heating and organization is a way of regulating precipitation efficiency



from Raphaela Vogel's dissertation



from Nuijens et al (2017)

