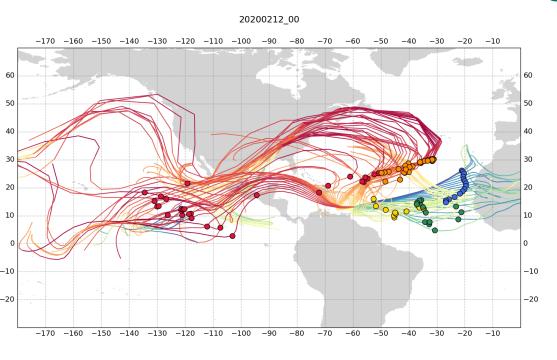
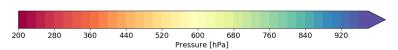


air mass origin

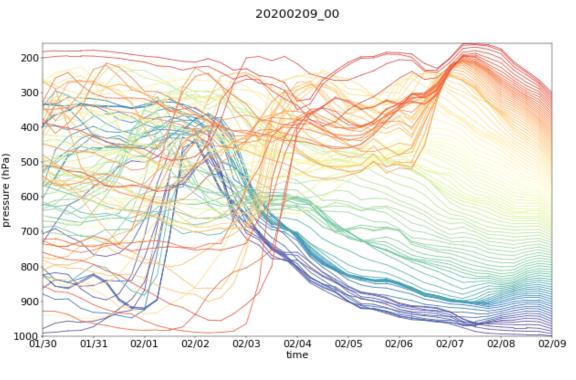




— The ETH Isoteam —

According to the IFS forecast, within the next three days low level airmasses (1000-800 hPa, blue, green and yellow pts.) are advected from Africa's west coast, while upper level airmasses (800-300hPa, orange and red pts.) partly still follow the wave breaking over the North Atlantic before recurving towards BB and partly are transported towards BB directly from the West.

air mass origin

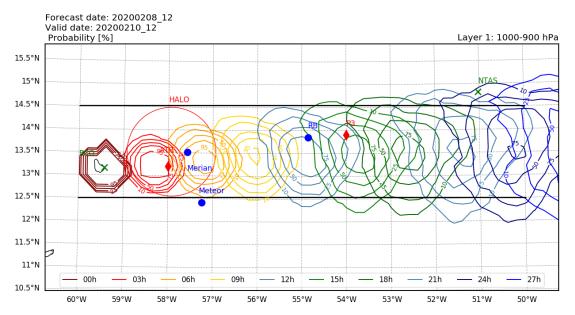


— The ETH Isoteam —

Some upper-level air parcels (red and orange pts) rise from tropical boundary layer before recurving within the jet stream and sinking back into the tropics.



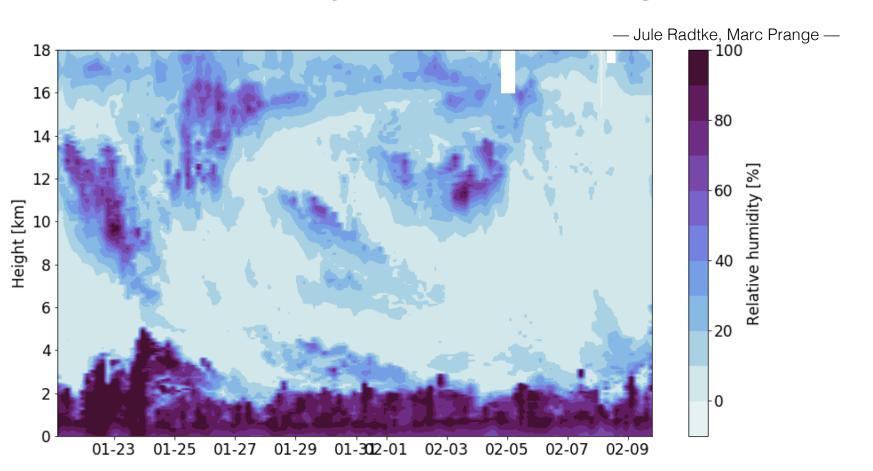
air mass origin



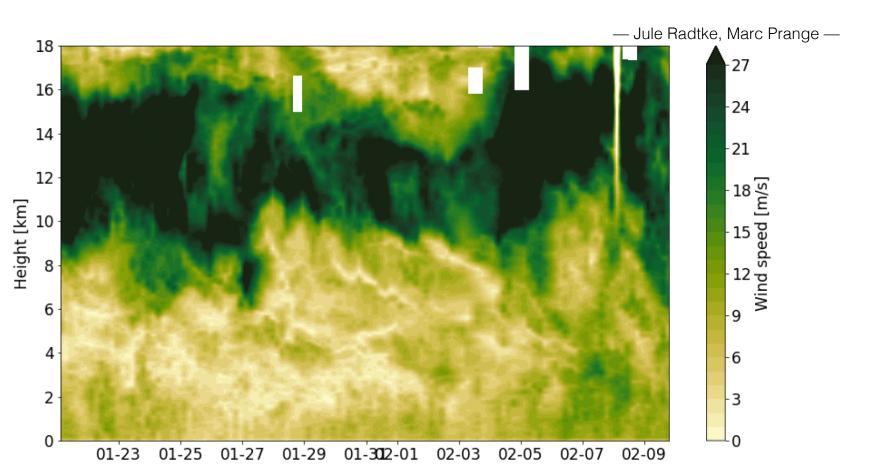
— The ETH Isoteam —

Due to the zonal (easterly) advection at low levels (1000-900hPa), the airmasses move in the center of the Tradewind Alley and will most likely pass south of the NTAS buoy 18-24h before arrival at the BCO.

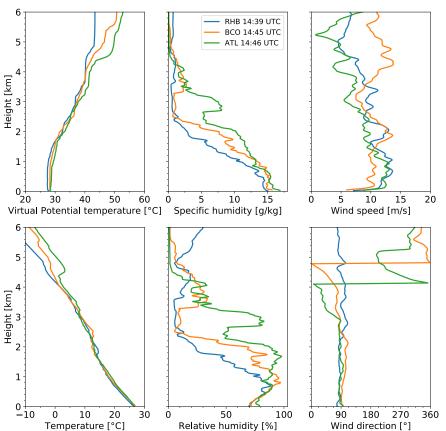
RH from BCO soundings



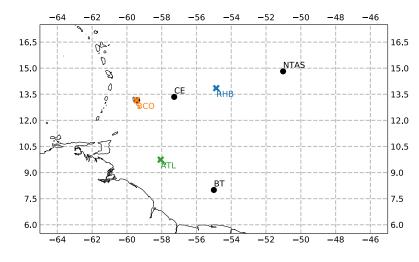
Windspeed from BCO soundings



Soundings



— Jule Radtke, Marc Prange —



EUREC⁴A observations

	ВСО	CE	NTAS	ВТ
Lat	13°09'46"	13°21'	14°49'	08°00'
Lon	59°25'44"	57°17'	51°01'	55°00'
LCL				
CBH-LCL				
СТН	0.8 - 1.6 KM **	4.0 - 4.8 KM **	1.6 - 2.3 KM **	0 - 0.8 KM **
Cirrus Top	-	-	-	-
AOD	0.2 **	0.34 ± 0.1 ****	0.5 **	$0.6 \pm 0.02^{***}$
PW	32.1 ± 4 MM		29.5 ± 3 mm *	33.3 ± 4.0 mm ***
Sfc Wind				
3km Wind	7.9 M/S, 80°		8.4 m/s, 93 ° *	7.8 m/s ; 80 ° ***
6km Wind	10.5 M/S, 343°		3.8 m/s, 70° *	6.5 m/s ; 318 ° ***
9km Wind	20.3, 346°		16.9 m/s, 302° *	20.5 m/s ; 265 ° ***
SST				
Inversion height	2.1 ± 0.15 KM		2 ± 0.1 km *	2.5 ± 0.3 km ***
EIS	1.9 ± 1 K		1.9 ± 0.8 K *	1.2 ± 0.3 K ***
LTS	12.7 ± 1.1 K		12.9 ± 0.7 K *	12.4 ± 0.4 K ***
Cloud Patterns	Sugar streets with isolated chimneys	Sugar streets with isolated chimneys	Empty cold pools	Gravel/clear

^{*} from Ron Brown (between CE and NTAS)

** from MODIS on Terra

**** from Meteor

^{***} from Atalante

model forecasts

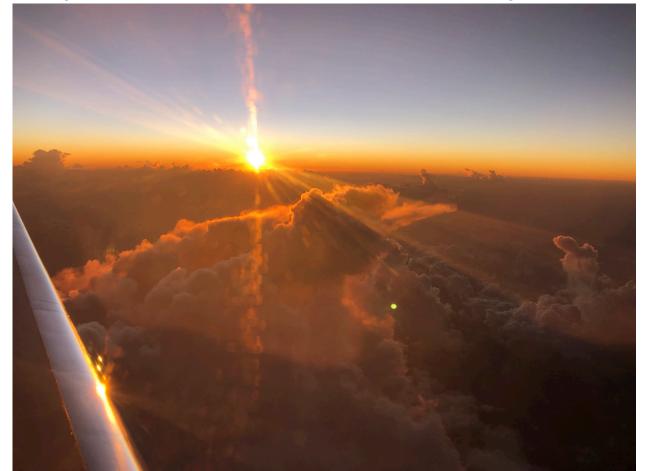
Forecast for yesterday (09.2) based on the 08 Feb 0z forecast:

	AROME	HARMONIE	UK MET +	OBS CE
LCL			600 m	
Inversion height			2500 m	
Cirrus Top			no cirrus	No cirrus
PW			32 mm	
Sfc Wind			10 m/s, 90 deg	
Cloud Patterns			gravel (localised)	

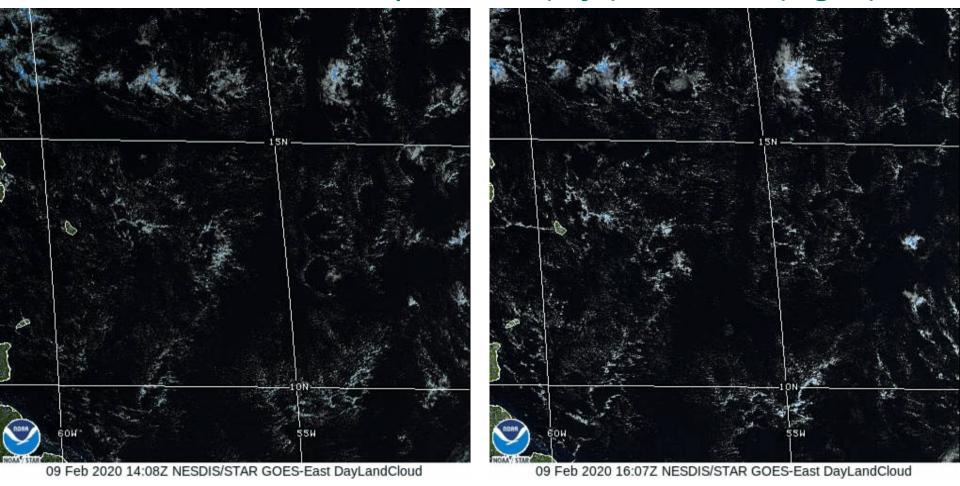
Forecast for today (10.2) based on the 09 Feb 0z forecast:

		AROME	HARMONIE	UK MET +
d	LCL			
	Inversion height			
	Cirrus Top			
	PW			
	Sfc Wind			
	Cloud Patterns			

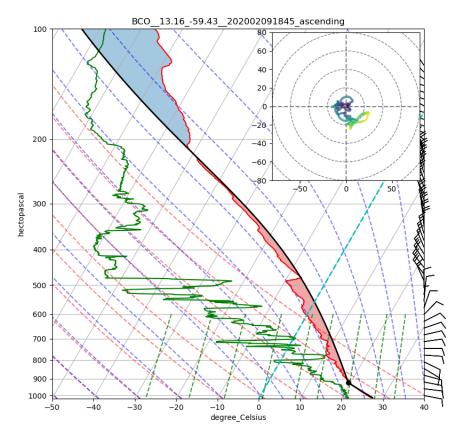
Yesterday's clouds: isolated chimneys at 500 mb?

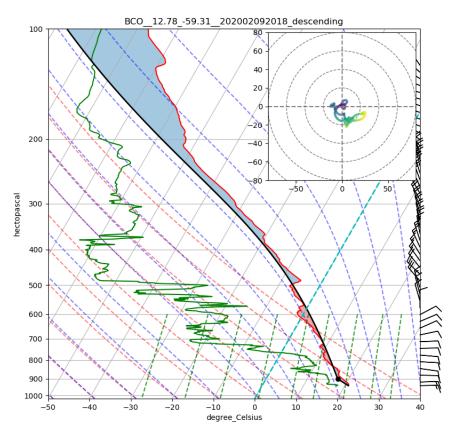


GOES Mesoscale loops – 14Z (left) and 16Z (right)

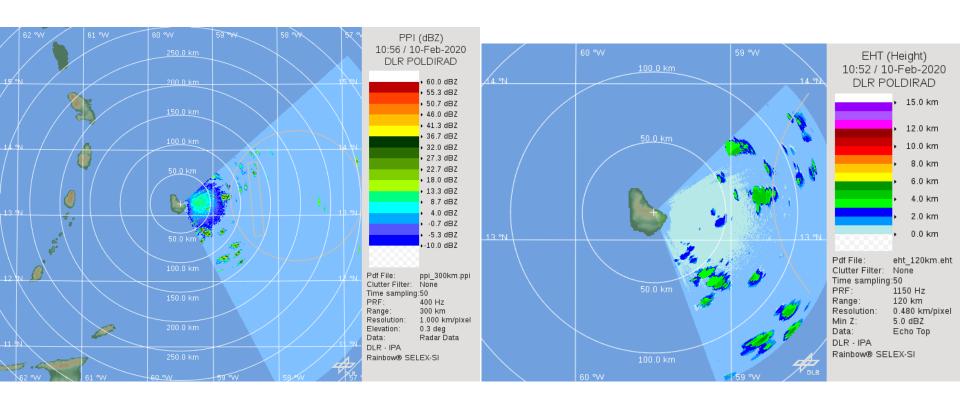


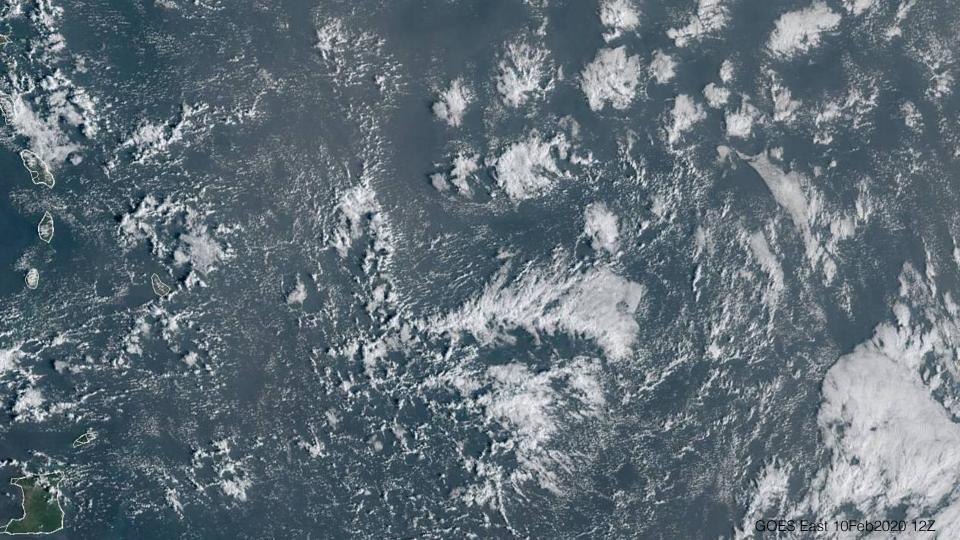
Soundings late in the day from Barbados (where is the trade inversion?)

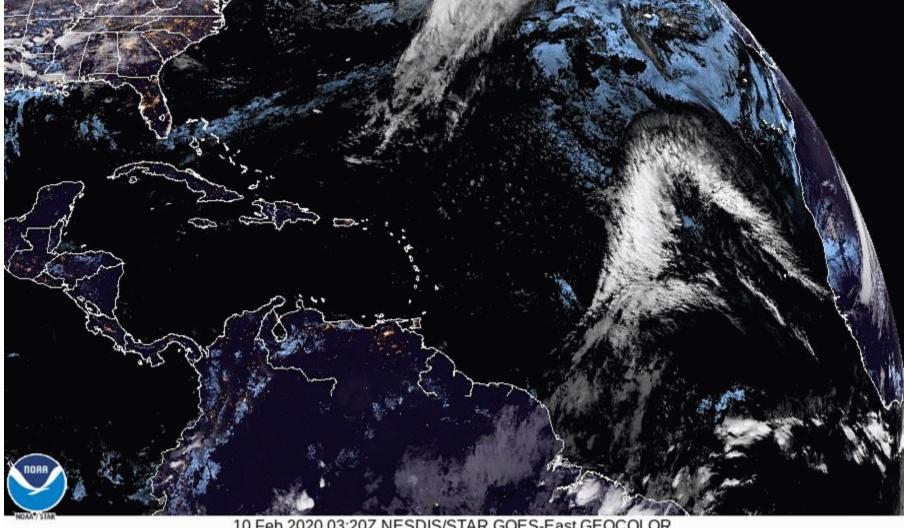




Poldirad quicklooks from this morning







10 Feb 2020 03:20Z NESDIS/STAR GOES-East GEOCOLOR