

INTRODUCTION

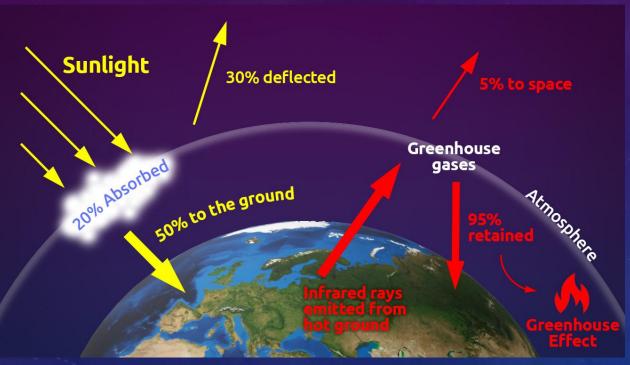
Global warming increase is caused by several humans actions. The aviation-derived impact is around 40% by the rejected CO2 and 60% by the contrails and embedded cirrus.

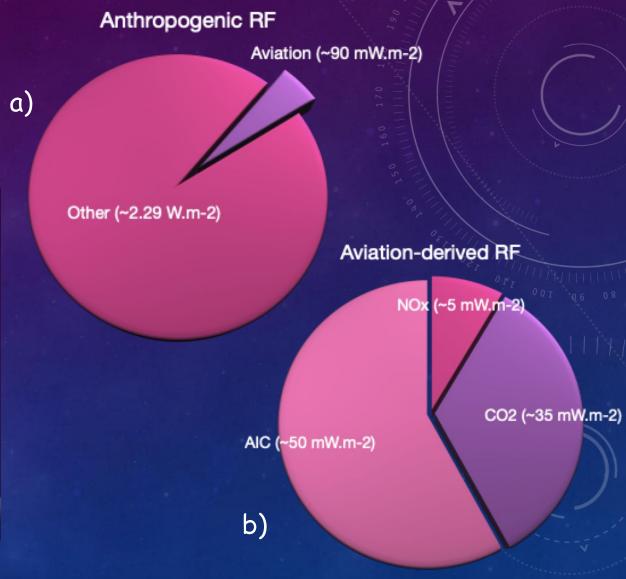
With the astro pi mission we tried to identify the contrails and take pictures when we're in a zone with high chances of seeing some. With the taken pictures we will try to:

- Study contrails: their extent, duration and opacity
- make a cartography based on these pictures, determining zones that fill the atmospheric condition to form a contrail
- Manage air traffic by avoiding daytime training areas
- Provide data for simulations or weather models.



CONTRAILS' IMPACTS

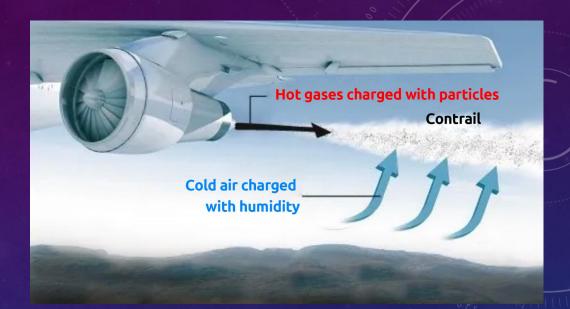


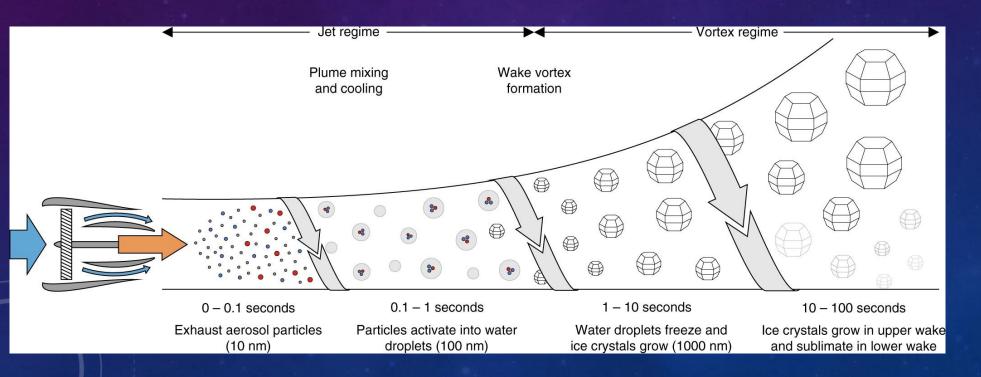


RF= radiative forcing



HOW CONTRAILS ARE MADE?







Solutions to limit contrails:

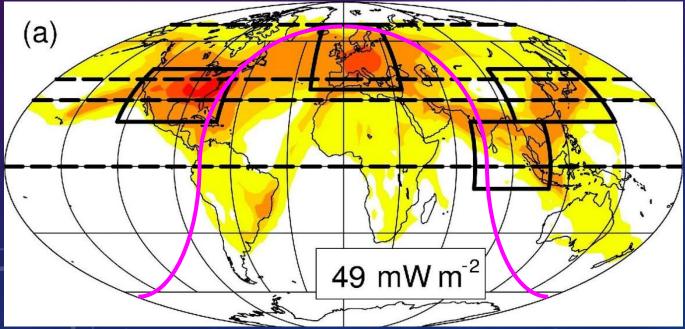
- fly at a **lower altitude** to minimized contrail formation
- avoid as much as possible the proximity of flight routes
- fly in areas where the weather conditions do not allow the contrails to remain



ASTROPI: MOEBIUS MISSION











THANK YOU FOR LISTENING





