

Mesures de méthane par ATR42 - 17/08/2021

Félix Langot

Supervisé par C. Crevoisier, T. Lauvaux

LMD - Palaiseau

25 avril 2022



2021 08 17

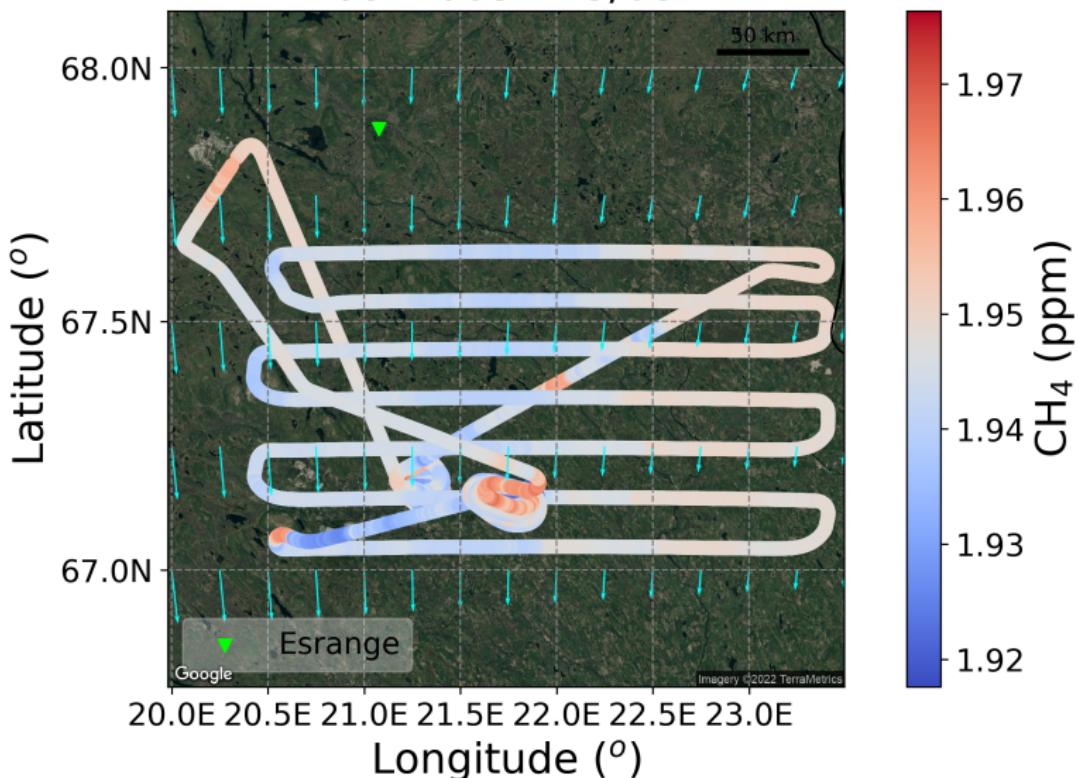
Sampling times (GPS synchronised clock) (seconds since 2021-08-17
00 :00 :00 UTC)

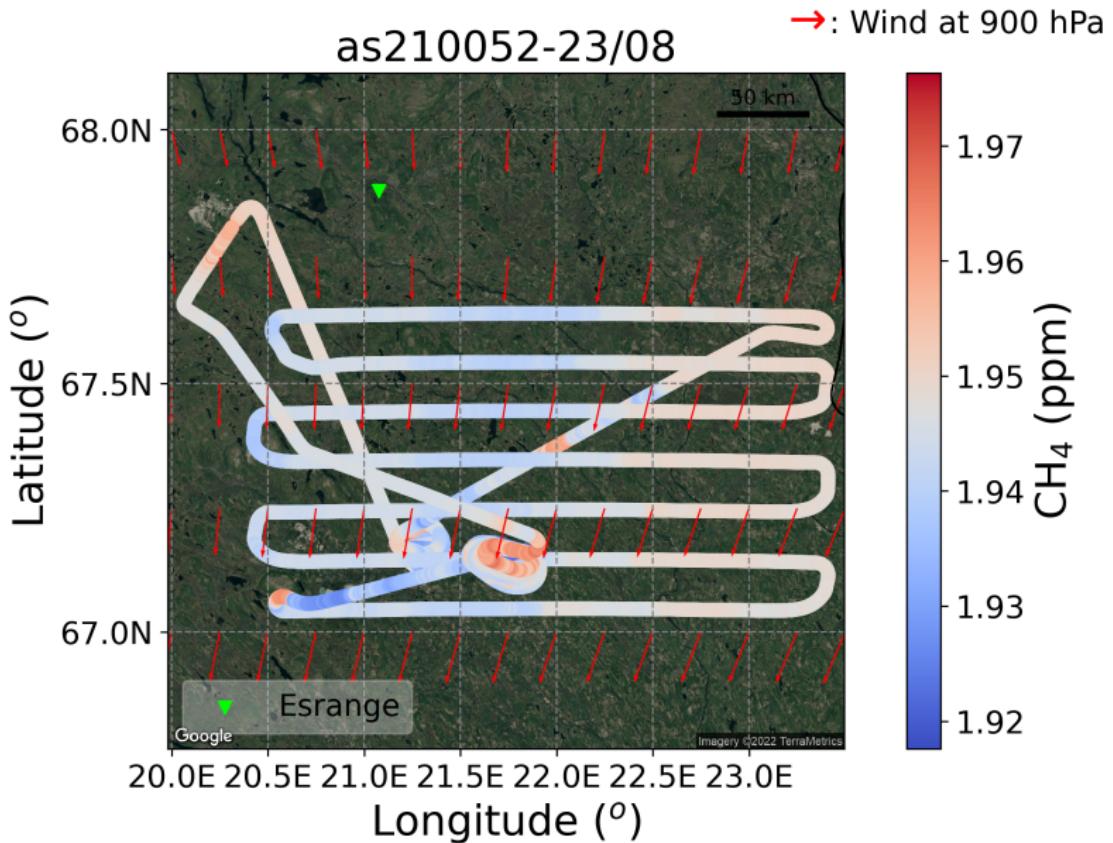
- latitude : Latitude AIRINS (degree)
- longitude : Longitude AIRINS (degree)
- altitude : Altitude from AIRINS (meter)
- ven_ddaipov_comp_1 : Wind direction (degree)
- ven_ffaipov_comp_1 : Wind speed (m/s)
- ven_uairov_comp_1 : Zonal wind component (m/s)
- ven_wairov_comp_1 : Vertical wind component (m/s)
- air_pressure : Front static pressure 1 (hPa)

- chm_CH4_dry_g2401m_calsync_1 : g2401m CH4_dry synchronised on Sampling times (GPS synchronised clock) (ppmv)
- chm_CO2_dry_g2401m_calsync_1 : g2401m CO2_dry synchronised on Sampling times (GPS synchronised clock) (ppmv)
- chm_CO_g2401m_calsync_1 : g2401m CO synchronised on Sampling times (GPS synchronised clock) (ppmv)
- chm_CO2_dry_esp1000_calsync_1 : esp1000 CO2_dry synchronised on Sampling times (GPS synchronised clock) (ppmv)
- FILE START TIME (seconds since 2021-08-17 00:00:00 UTC) : 7.36660003
- FILE STOP TIME (seconds since 2021-08-17 00:00:00 UTC) : 11.23910001
- TAKE-OFF TIME (HHMMSS UTC) : 080556
- LANDING TIME (HHMMSS UTC) : 111142

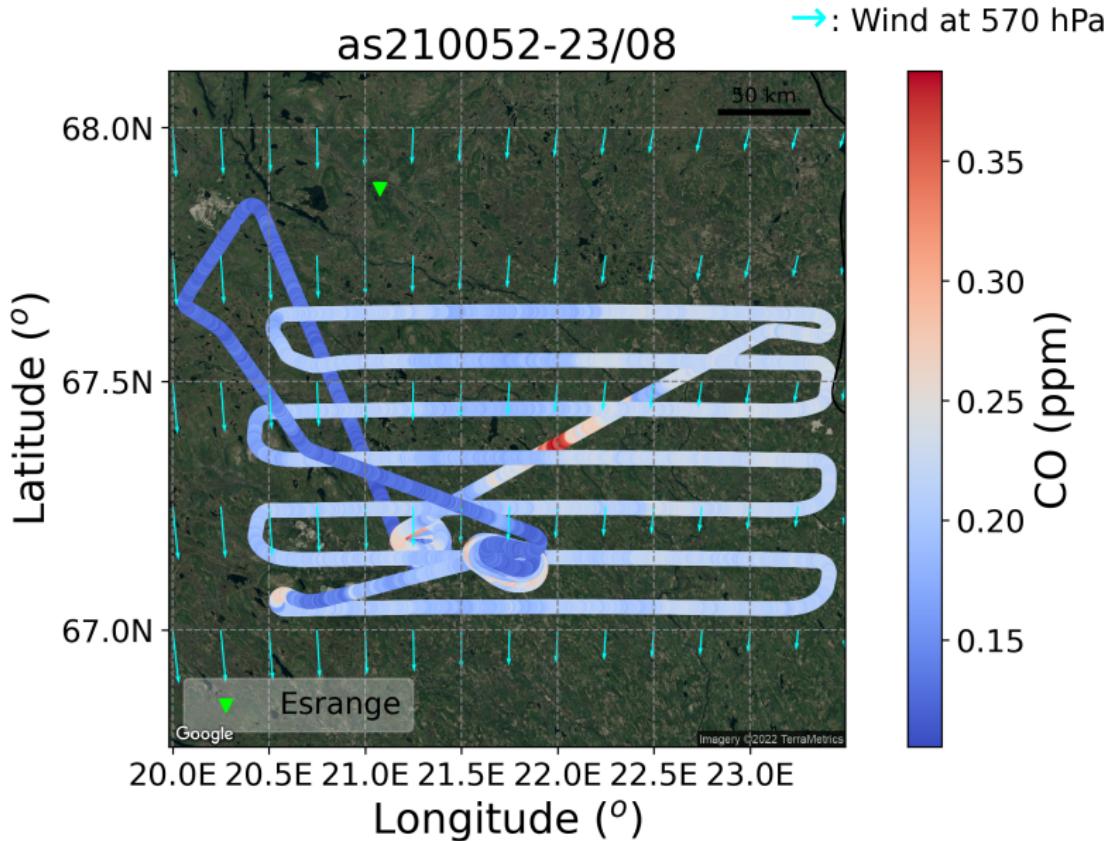
as210052-23/08

→: Wind at 570 hPa

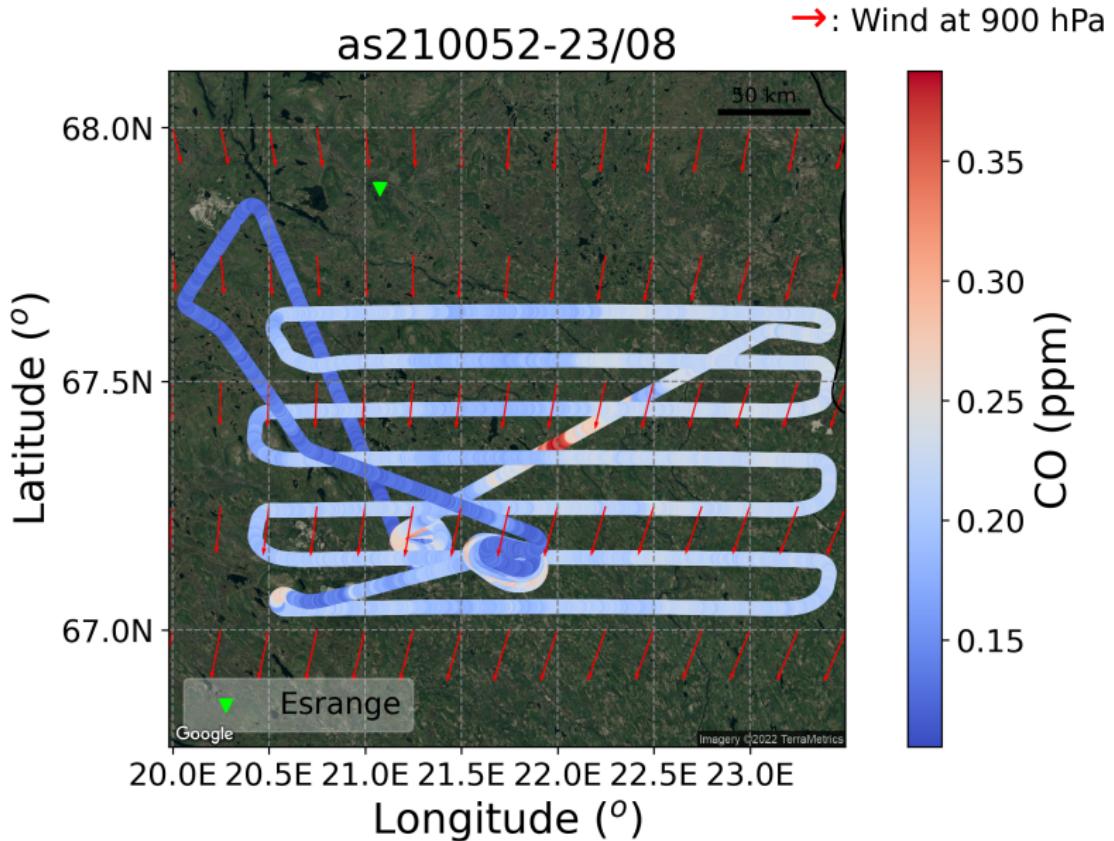




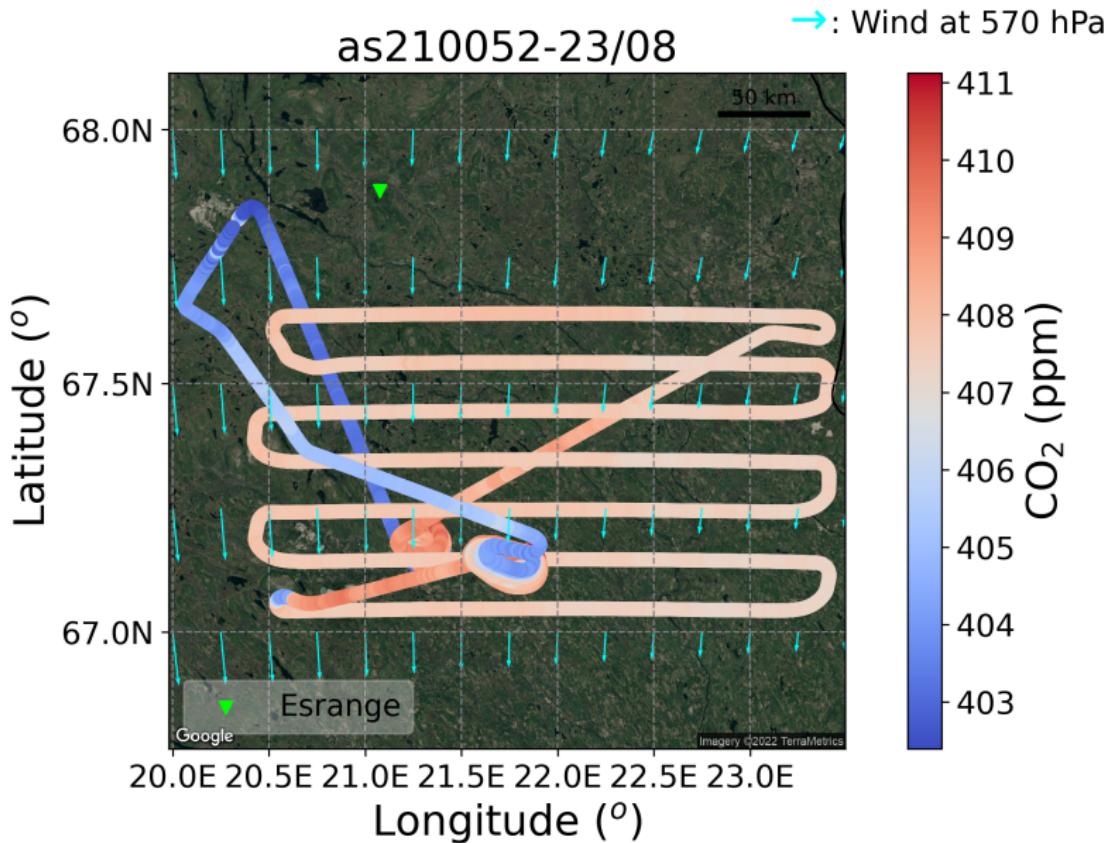
CO



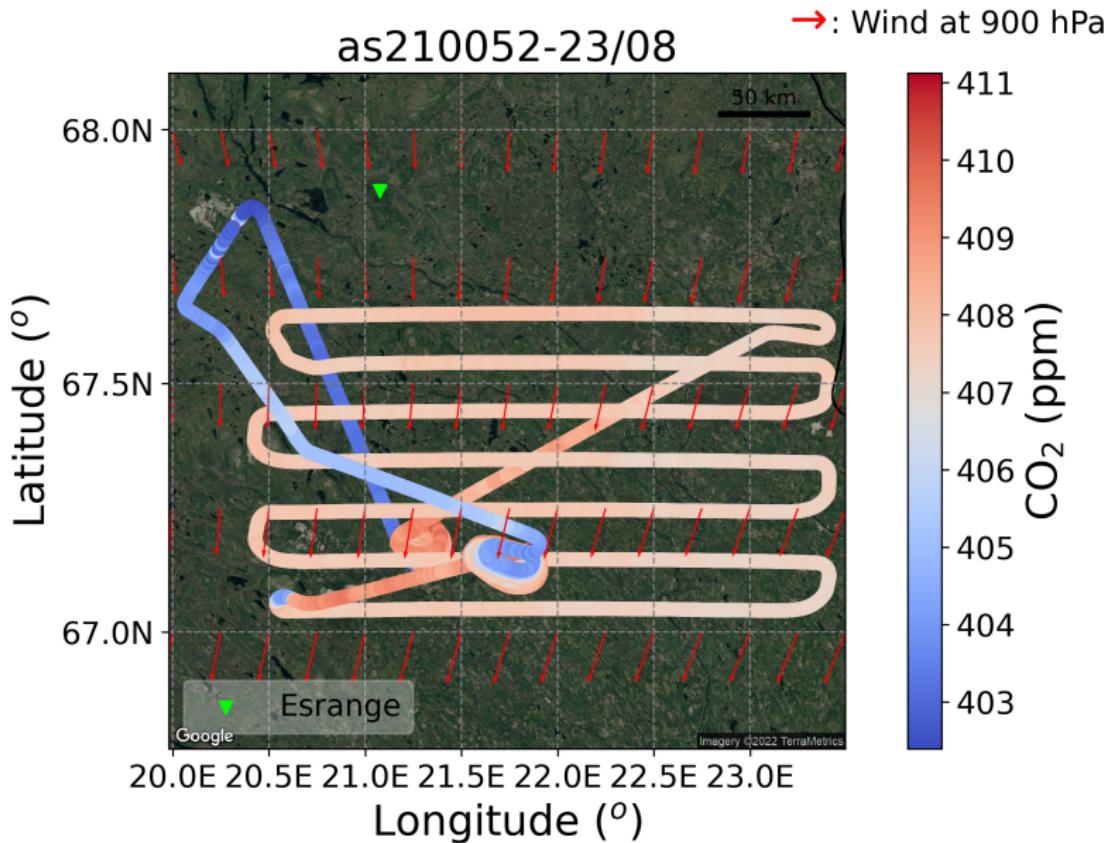
CO



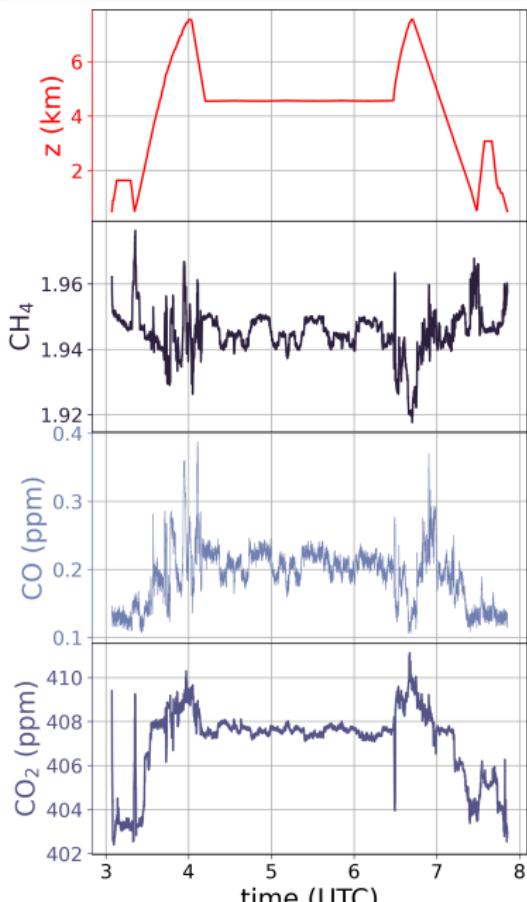
CO_2



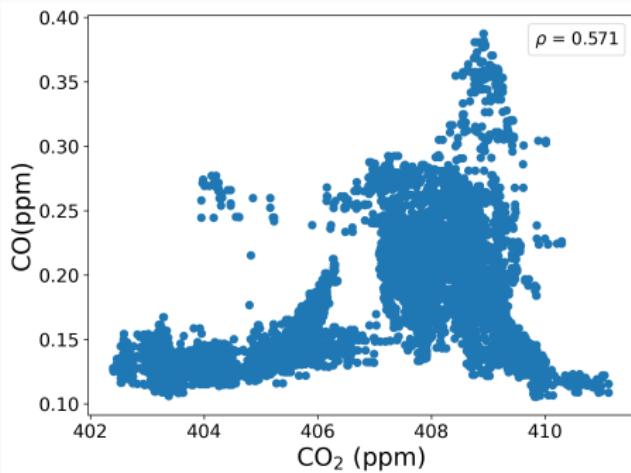
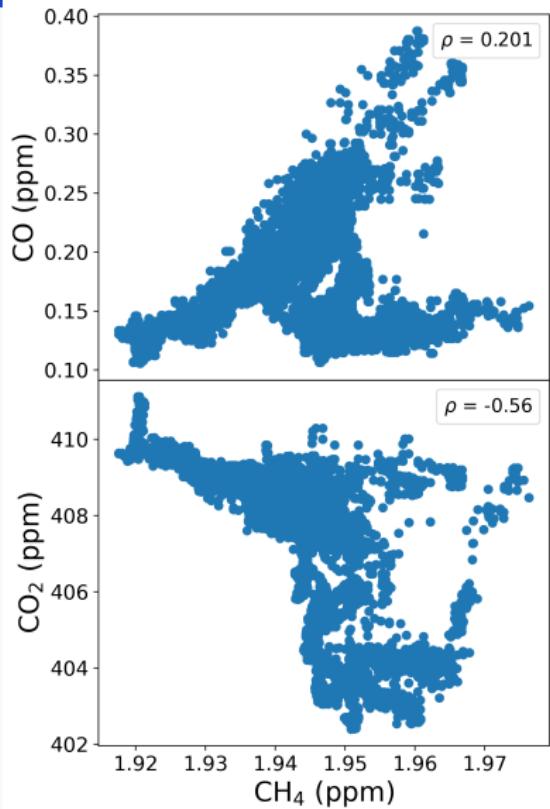
CO_2



GHGs correlations



GHGs correlations

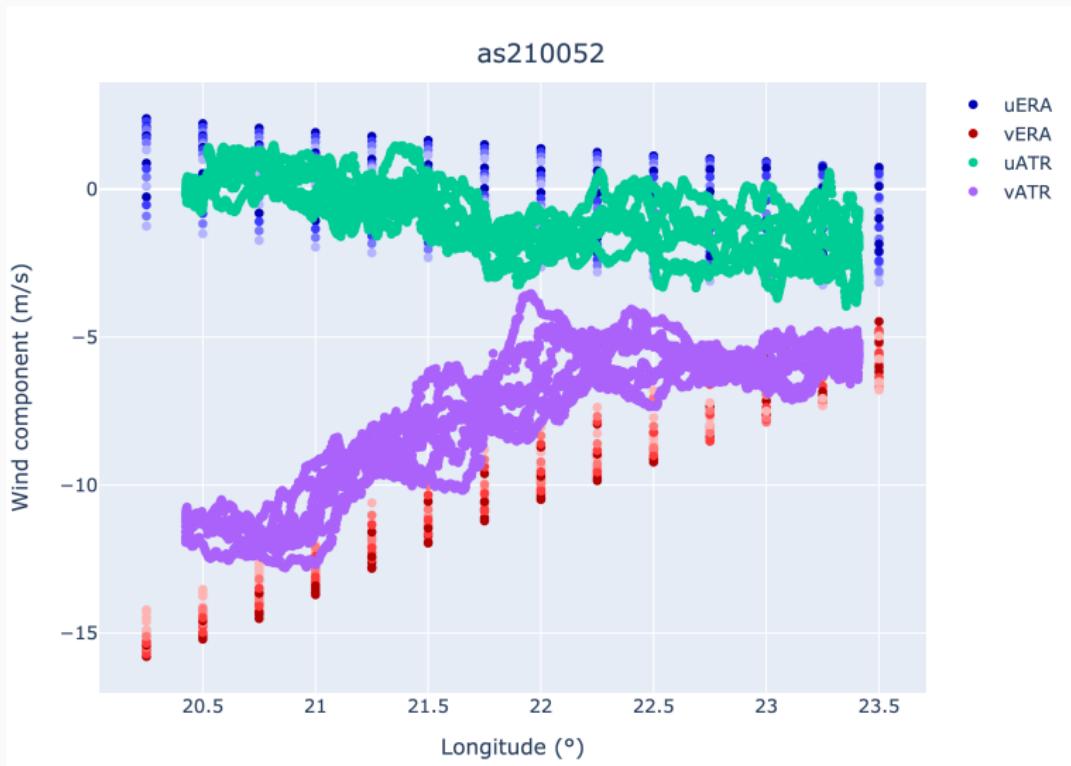


À faire :

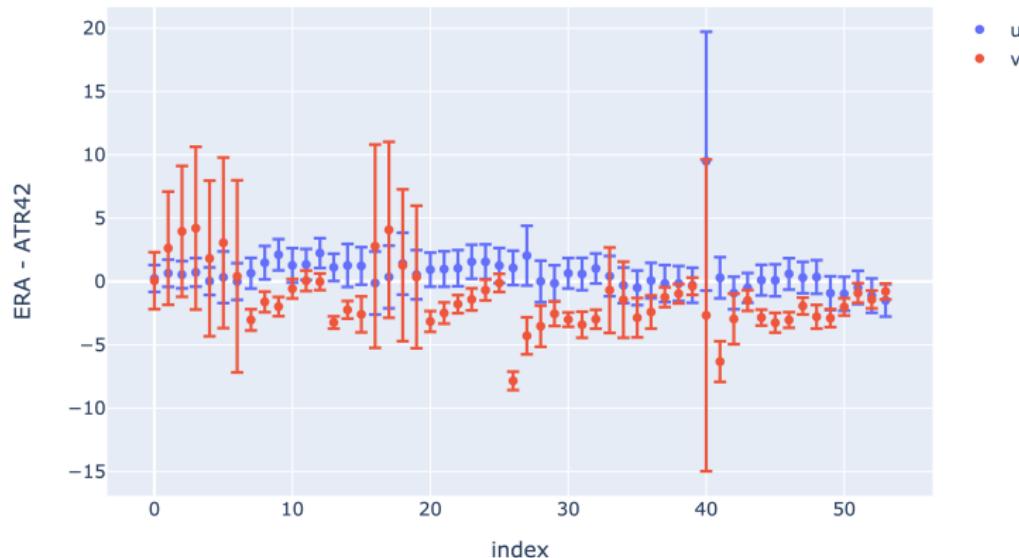
- Regarder corrélations entre GES et T, RH
- Améliorer les domaines de comparaison

Wind

as210052



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Error bars calculated from combination of ERA and ATR42 sample σ_s

Wind



Wind

