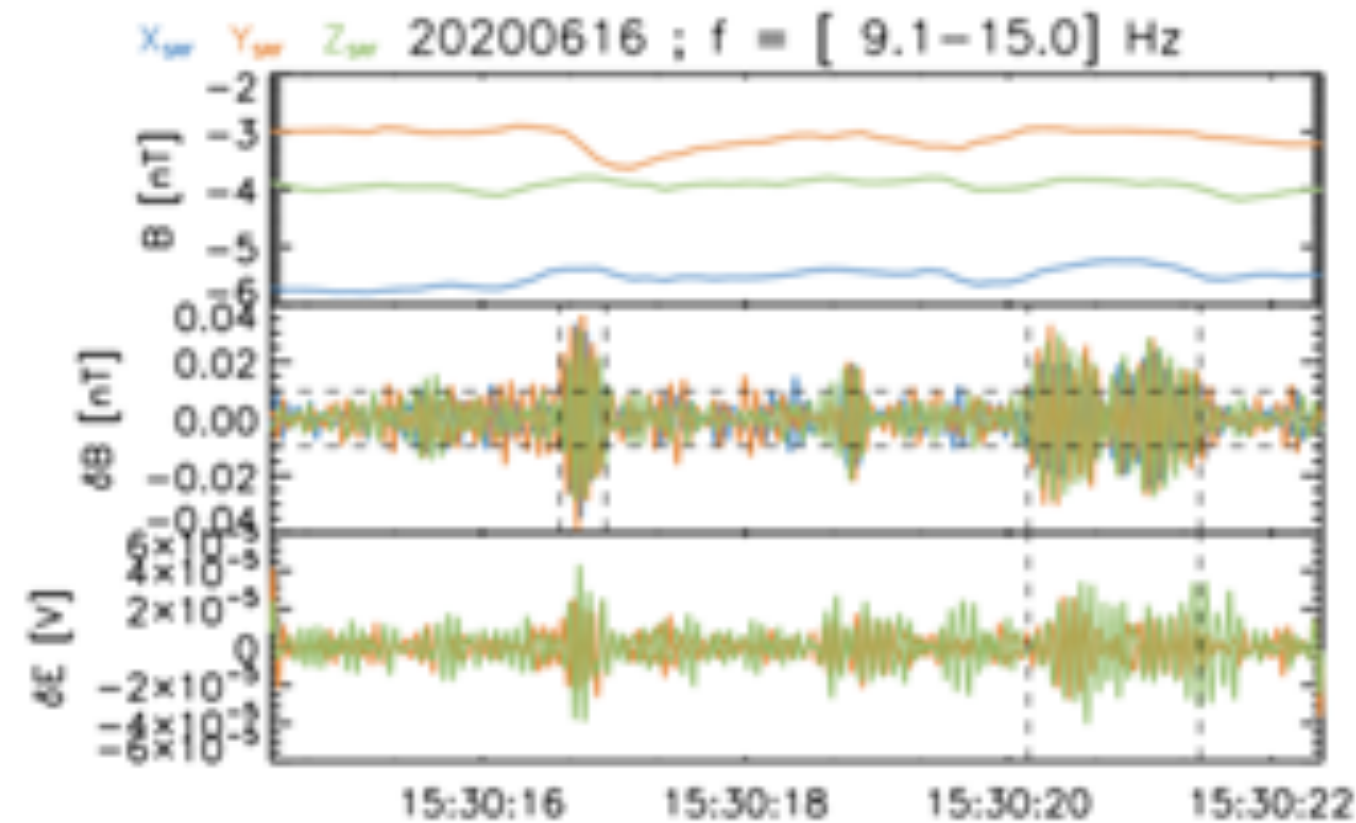


Whistler waves Observed by Solar Orbiter during its first orbit

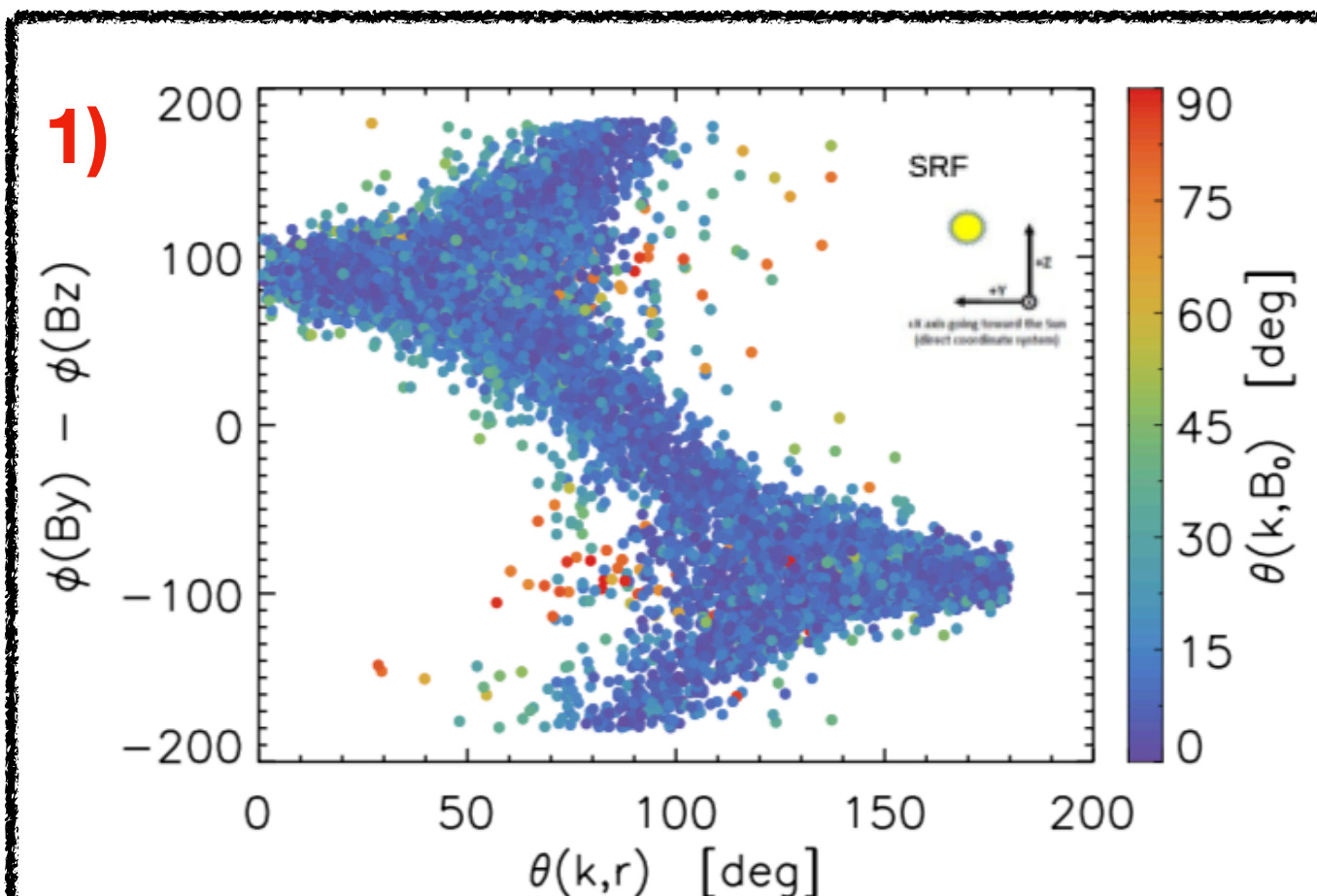
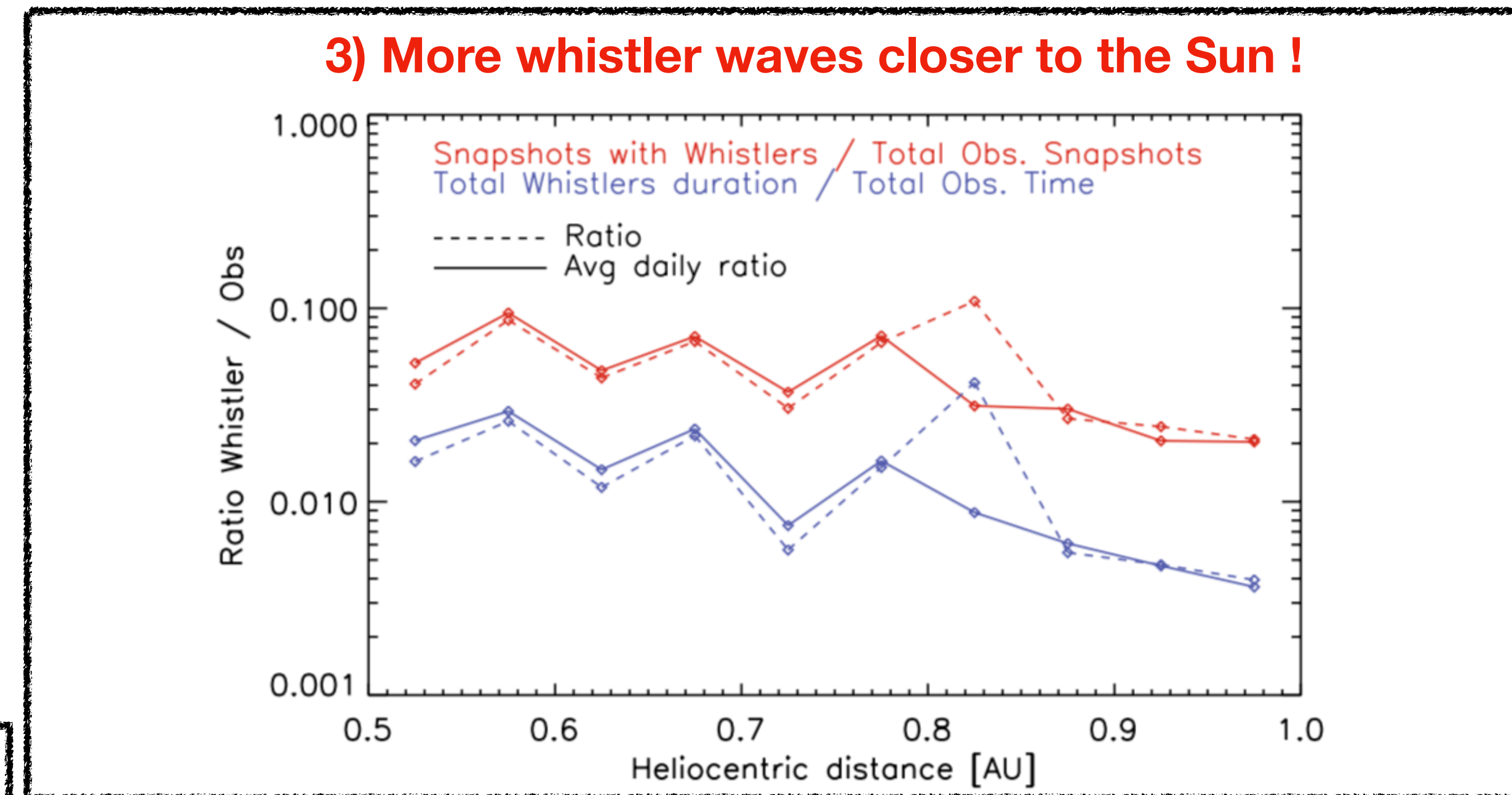
M. Kretzschmar, LPC2E, CNRS & Univ. Orléans

with T. Chust, D. Graham, V. Krasnoselskikh, L. Colombari, the RPW Team, the MAG team, the SWA team

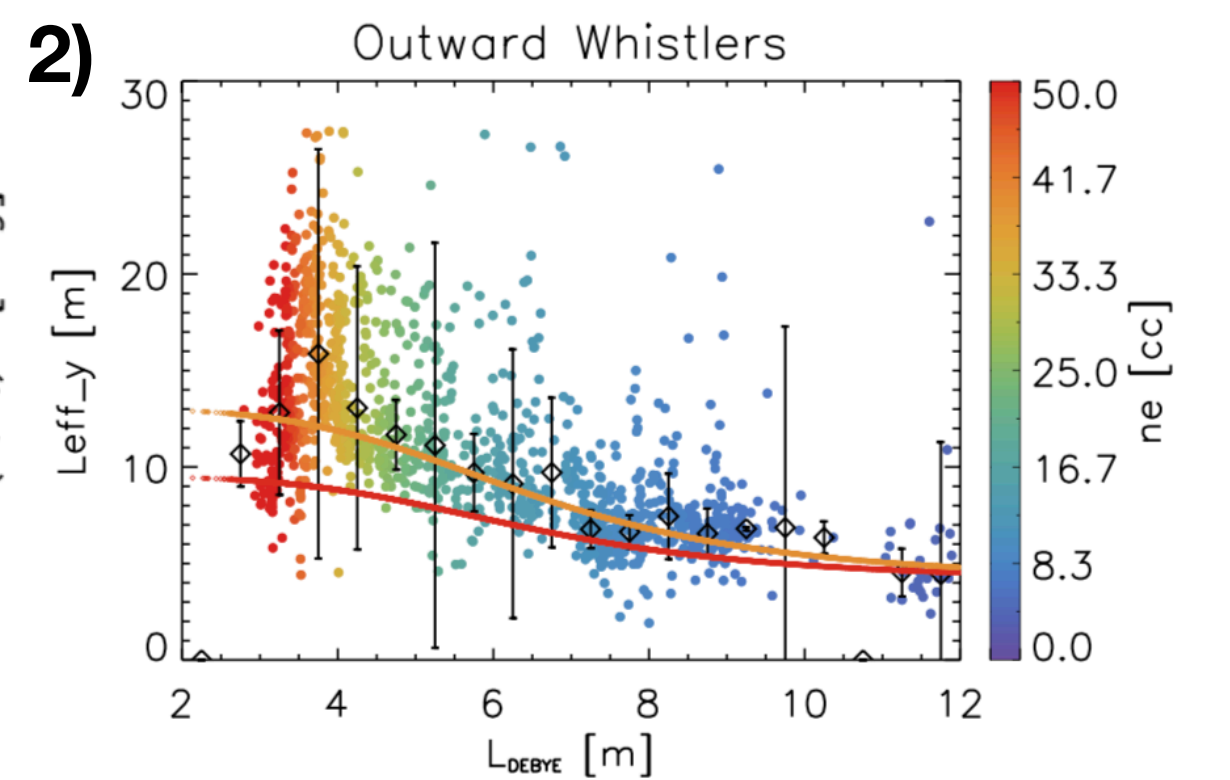
➔ Detection of EM waves above 3 Hz between Mar and Dec 2020, at heliocentric distance from 1 to 0.51 AU



✓ We use spectral and minimum variance analysis of RPW B and E to retrieve the waves parameters in the plasma frame: amplitude, polarisation, direction of propagation, phase velocity



Almost all detected waves are outward propagating and quasi parallel whistler waves !



Agreement on the effective length of the electric antenna by two different methods

