Comment on wes-2021-149
Wim Bierbooms (Referee)

This is an excellent paper about an important and relevant topic. I have just a few remarks, mainly to improve clarity:

- Eq. (22), mention that, refer to Eq. (5), \( n_1 = -\cos \phi \), \( n_2 = \cos \theta \times \sin \phi \) and \( n_3 = \sin \theta \times \sin \phi \)

- line 181: explain in a few sentences why "we need at least six radial velocity variances from different beam directions"

- line 268: "below 0.2 m/s"; shouldn't it be "above"?

- line 269: why 100? (perhaps a reference can be added)

- caption Fig. 5: introduce "beam index"

- line 292: explain "bore point"

- section 4.3.2: perhaps a 3rd option can be applied, according to the IEC: \( \sigma_v = 0.7 \sigma_u \), \( \sigma_w = 0.5 \sigma_u \)

- Fig. 15: add titles on top of the 3 rows: "maximum", "median", "centroid"

- Fig. 16: add titles on top of the 3 rows: "LSP \( \sigma_u^2 \)", "LSP isotropy", "U variance"