

Supplementary page to figure 24(d) of main article.

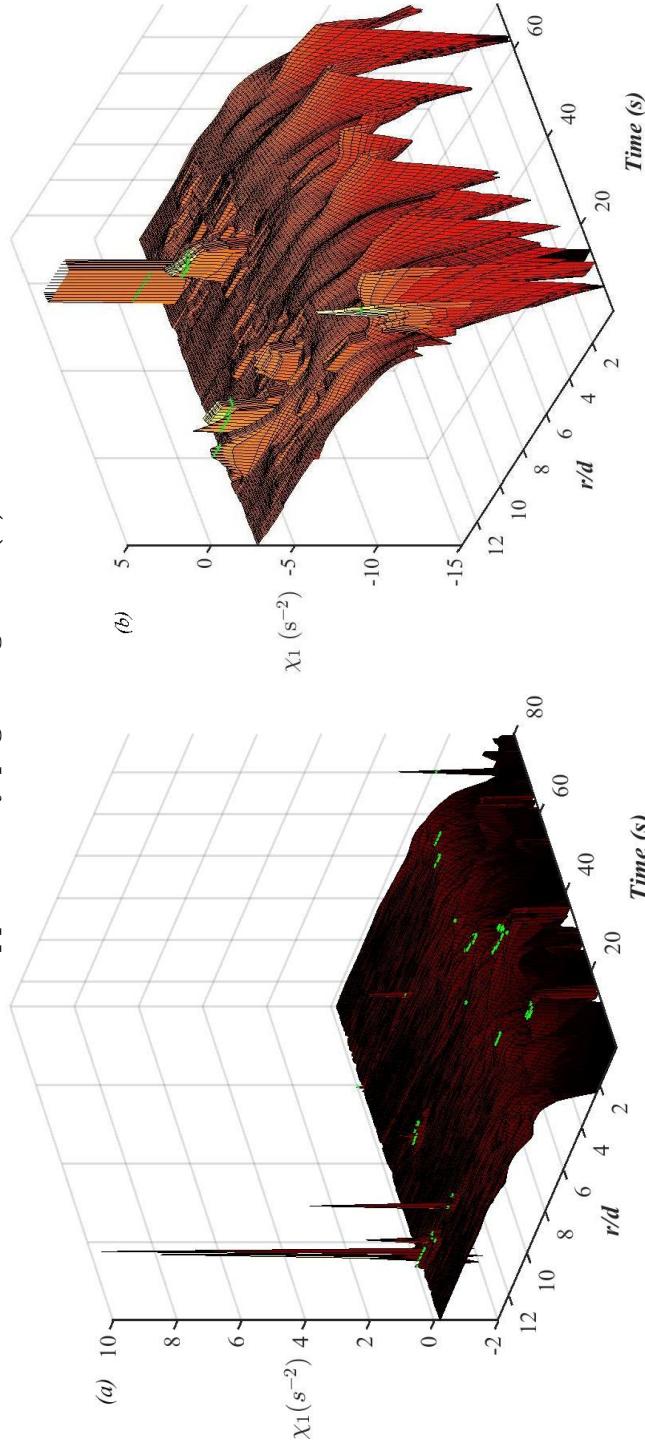


Figure S2: This figure supplements the discussion of figure 23(d) of the main article. Figure 23(d) displays the temporal development of χ_1 for the particular radial location $r/d = 3.5$ and for the rotation rate $\Omega = 0.21 \text{ rad s}^{-1}$ only. Figures S1(a), (b) provide a more comprehensive overview. The figures illustrate the temporal development of χ_1 on the interval $0 \leq r/d \leq 13$ and for two different rotation rates of (a) $\Omega = 0.21 \text{ rad s}^{-1}$ and (b) $\Omega = 0.84 \text{ rad s}^{-1}$. The green iso-surface lines identify $\chi_1 = 0$. These lines enclose regions of the flow field where $\chi_1 > 0$, that is regions where the criterion for instability is satisfied. The main purpose of these figures is to show that the fluctuating behaviour of χ_1 around values $O(\chi_1 = 0)$, becomes substantially more prominent as the rotation rate increases and that is not only restricted to the particular value of $r/d = 3.5$ but that it extends radially outwards as far as about $r/d \approx 10$ in (b).