

Figure S1. Snapshots of the energy dissipation rate (color) and along-trough velocity (arrow) along the trough axis during neap flood tides (a, 00:00 on 18 November 2021) and moderate flood tides (b, 00:00 on 21 November 2021), respectively, obtained from the numerical experiment. Prominent energy dissipation is generated by the strong tidal flow on the lee side of the bathymetric bump.