Reply on RC4
Munir Ahmad Nayak et al.

Author comment on "ERA5-based database of Atmospheric Rivers over Himalayas" by Munir Ahmad Nayak et al., Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2020-397-AC2, 2021

We have also added more information in the revised manuscript (Data Section) to justify the choice of 6-hour temporal resolution. The text there reads as:

"The 6-hourly interval is chosen for four main reasons. 1) it is a common denominator among AR detection algorithms using atmospheric reanalysis datasets (Brands et al., 2017; Bin Guan & Waliser, 2015; Mundhenk et al., 2016; Rutz et al., 2014), 2) it provides sufficient temporal information on AR events and captures the gradual changes of AR characteristics (Nash & Carvalho, 2020; Ramos et al., 2015), 3) many studies have found minor differences in ARs based on differing the temporal resolutions (Guan & Waliser, 2015, 2017; Rutz et al., 2014; Shields et al., 2018), and 4) as compared to 1-hourly data, it is easily-manageable on a desktop machine with small random access memory (RAM), while marginally compromising on the extent of information available on AR characteristics."