Reply to RC2
Günter Blöschl

I would like to thank RC2 for the kind assessment and the comments.

The July 2021 in Henan Province will be included in the introduction.

The connectivity at the continental scale would indeed profit from further clarification. The superposition of the polar and the subtropical jet stream over the Western Mediterranean, which often Vb cyclones, I would interpret as a „connection“ of atmospheric process (Hofstätter et al., 2019). Another example are precipitation characteristics related to atmospheric rivers (Kim et al, 2021). I will add an explanation of the argument to the paper as follows: "It appears that connectivity is also important at the continental scale, e.g. through preferential pathways of flood-generating cyclones; in the particular case of Vb events through the connection of the eddy-driven polar jet stream and the subtropical jet stream over the Western Mediterranean; and through the role of teleconnections (e.g. as quantified by the Northern Atlantic Oscillation (NAO) and Arctic Oscillation (AO) indices in affecting flood-relevant cyclones (Hofstätter et al., 2019). Another example of connectivity in the atmosphere are atmospheric rivers (Kim et al, 2021)."

References