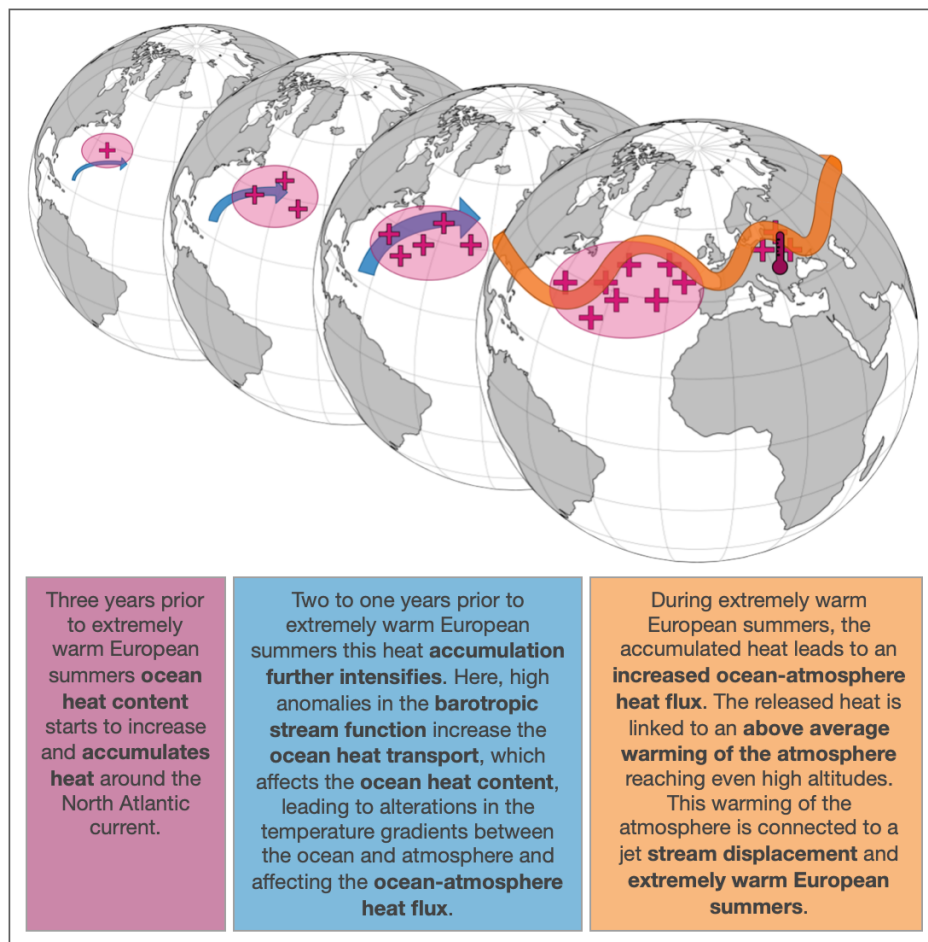


## Response to the editor:

We highly appreciate and are very thankful for the time and effort that was invested in reviewing our manuscript. The original comments are in italic red while our responses are in black.

*Please change the wording in Figure 5 to not imply causation at least for the causal arguments that pertain to the atmosphere and the jet.*

We want to thank the editor for this comment. We changed the corresponding sentences from "... an increased ocean-atmosphere heat flux. The released heat causes then an above average warming of the atmosphere reaching even high altitudes. This warming of the atmosphere leads via jet stream displacement to extremely warm European summers." to "... an increased ocean-atmosphere heat flux. The released heat is linked to an above average warming of the atmosphere reaching even high altitudes. This warming of the atmosphere is connected to a jet stream displacement and extremely warm European summers."



**Fig I:** Revised version of figure 5 of the main manuscript.