**Recommendation of Anonymous Reviewer B**

 This is a well-established approach to show maximum catch potential  
 changes with climate change scenarios without fish population dynamic  
 models. Nevertheless, it should state gaps between the maximum catch  
 potential changes and fish distribution changes explicitly. Assumptions  
 and rationalities for the relationship between two concepts should be  
 stated by adding sentences.  
  
  
 L176-177; More lucid explosions for Equation 2 are necessary.  This  
 equation is critical to define the time horizon, but current explosions  
 are not apparent how it corresponds to L176 and 177.

**Response:** We modified the equation and text as requested

Also, it would be helpful to provide rationales to define these two periods in this study.

**Response:** We have included a sentence that addresses this comment, it reads:

“The rationale between choosing these time periods was to provide a relative short-term projection (mid-century) that would be more policy-relevant but also show the long term trend.”  
  
 Should have a word consistency for "transboundary species, transboundary  
 fisheries and transboundary stock

**Response:** We have reviewed the text and changed all “transboundary species/fisheries” to “transboundary stocks”. We left “transboundary fisheries” in the title and abstract as we believe is a more friendly term for non-experts.

 L55: this sentence should be elaborated for non-fishery background  
 readers (also L313)  For instance,  (e.g., quota or spatial delimitation)  &#8658; catch quota or spatial  
 delimitation for fishing activities

**Response**: Addressed in text  
  
 L117 : Fig 1 does not have enough information to correspond to this  
 sentence.

**Response:** This sentence refers to table 1 and not figure 1. We show in the table the treaties and the number of species they manage

 L164, 167, 174, 183: no equation numbers, references or symbols in  
 parenthesis?

**Response:** Equation numbers will be included by the journal  
  
L192: Github link does not work.

**Response:** It will be made available once the manuscript is published. We have uploaded the code along with the responses for the reviewer to see.

 L203: "transboundary fisheries" should be "transboundary stocks"

**Response:** Revised  
  
 L300; these are not "management objectives." these should be management  
 devices (or other appropriate words).

**Response:** Revised  
  
 Fig 6: A vertical line divides "High emission" and "Low emission" into  
 two areas would help to understand.

**Response:** Revised