

RF on Eastern Boundary Upwelling Systems

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RF overview

The Research Focus on EBUS was active from October 2015 through January 2020. This group commenced in October 2015 with a scoping workshop in Ankara, Turkey and the submission of an original EBUS RF prospectus in April of 2016. Progress continued, with a RF meeting in Qingdao in September 2016 during the CLIVAR Open Science Conference. However, concern for the potential overlap with activities of other groups in the research community and changes to the leadership and membership of the group necessitated shifts in the focus of the efforts. A plan for revisions to the group to address these concerns was submitted to the SSG in November of 2017, and after encouragement from the SSG, the RF group membership was revised in April and May of 2018 with a request of a two-year duration. The RF group submitted a revised prospectus in June of 2018 and had a one-day meeting in December 2018 and a two-day meeting in July 2019 (following a summer school on EBUS that was organized by the RF). The RF group has continued discussing the science of EBUS, and members are drafting a manuscript. The former co-chairs also organized a session at the planned 2022 Ocean Sciences Meeting (to be held virtually), and the CLIVAR office has asked that the session at the Ocean Sciences Meeting be the last “official” activity of the EBUS RF.

The activities of the group were largely completed on schedule, however, we continue to work on a perspectives-type paper when time permits. A first meeting of the reconfigured RF group took place December 9, 2018, prior to the annual assembly of the AGU in Washington, DC. The key agenda item for this meeting was the preparation of a syllabus and teaching schedule for a July 2019 summer school on EBUS that took place in Trieste, Italy. The school was a success, and the presence of many RF members was leveraged to hold a workshop in the two days following the school.

In addition to capacity building, the current goals of the RF group were two-fold: to develop research recommendations for synergistic activities between the modeling and observational communities, and to improve the quantification of potential impacts of climate change on the marine ecosystem and the potential consequences on their dependent societies.

Achievements for 2020-2021

Workshops

Nothing to report.

Results from workshops

In the months following the 4th CLIVAR EBUS meeting in 2019, virtual discussions have helped develop a draft manuscript highlighting some key questions in upwelling systems. Those discussions have slowed due to the pandemic but continue with the intermittent windows of time that members can contribute.

Scientific capacity building and career support

Following the CLIVAR-ICTP summer school in 2019, several student participants have been in contact with members of the Research Focus group seeking opportunities for collaboration. At least two of those participants have now been involved in successfully funded research proposals on EBUS.

Knowledge exchange

Research Focus members participated in a half-day of discussions and presentations with the joint PICES-CLIVAR Working Group on Climate and Ecosystem Predictability and with the CLIVAR Pacific Regional Panel that occurred at the end of October 2019 in Victoria, Canada. Those relationships have persisted, and members of the CLIVAR RF on EBUS and the Pacific Regional Panel have continued to discuss science at PICES meetings. The groups have been active in proposing a PICES working group on “climate extremes and coastal impacts in the Pacific”.

Plans for 2022 and beyond

Several members of the working group will aggregate (virtually) for the 2022 Ocean Sciences Meeting. There are a number of scientific sessions focusing on EBUS. The session organized by the former EBUS RF is focused on large-scale climate processes and EBUS and is titled “Key uncertainties challenging our understanding of the responses of Eastern Boundary Upwelling Systems to climate variability and change”

The EBUS RF members are aware of the upcoming [EBUS conference](#) scheduled for September 19 - 23, 2022 in Lima, Peru, and are encouraged to submit session proposals and attend the conference.

Articles published in 2020/21 as part of RF activities (if any)

No papers led by the RF group were published in this period.

Budget and other needs for 2022 (in CHF)

No financial requests are made.