

Physical Oceanography and Climate (POC) Committee

Action Plan 2019-2022

Executive Summary

Prepared by Emanuele Di Lorenzo, Chair of POC

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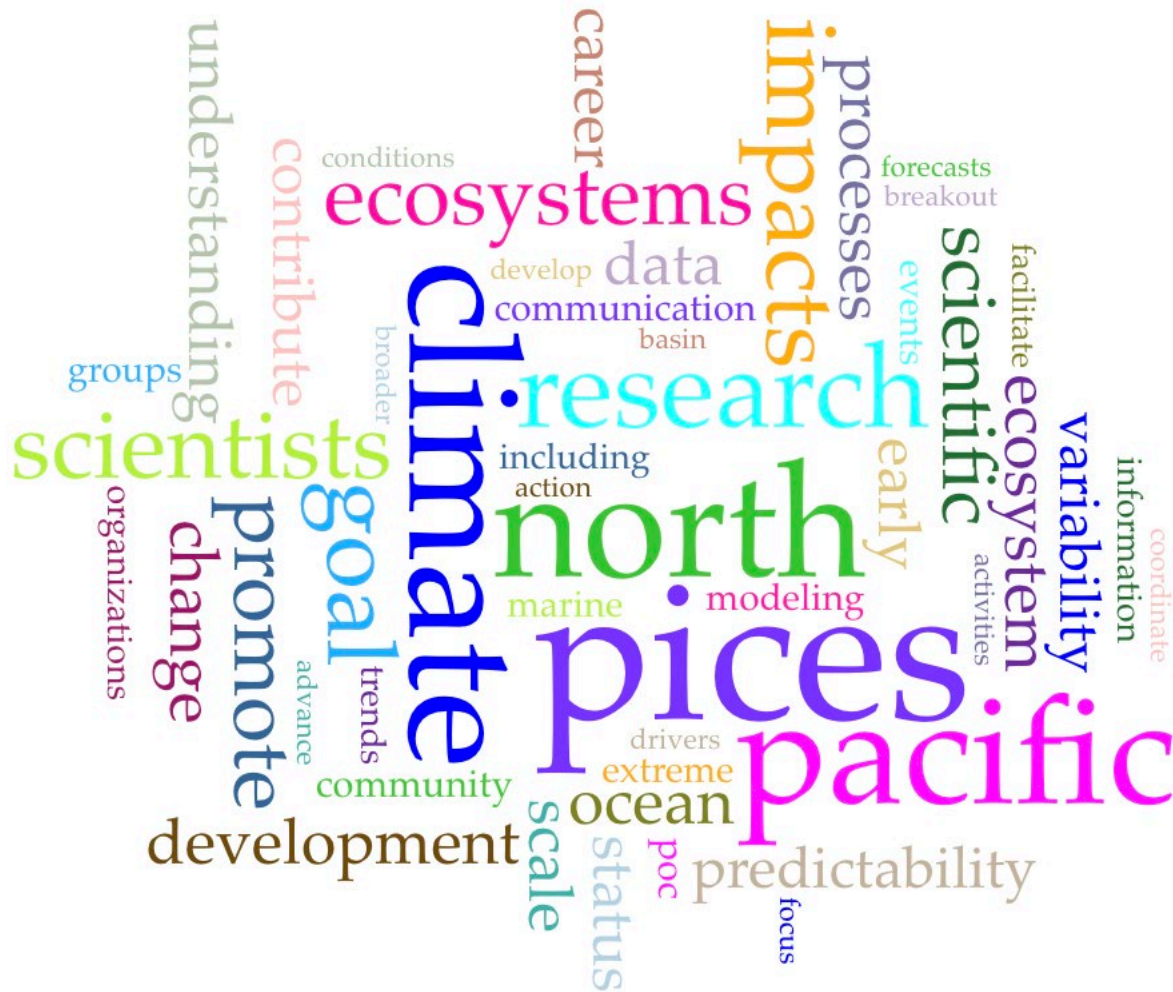


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POC Action Plan 2019-2022

The action plan is modeled around the new PICES strategic plans. All members of the POC committee worked together through two sessions to develop a new 3-years action plan. During the first session, breakout groups compile a set of actions and tasks for each of the PICES six strategic goals. In the second session, breakout groups synthesized the results from each of the goals. Below is the executive summary.

POC Mission Statement

“To promote and coordinate research and facilitates exchange of information and data on the impacts of ocean climate variability and change on living marine resources and human societies, on scales ranging from sub-seasonal to millennial and microscale to basin-scale.”

Goal 1: Foster collaboration among scientists within PICES and with other multinational organizations

Coordinate research and communication among international organizations and programs focusing on climate-ecosystem interactions, including CLIVAR, PACON, WESTPAC, IOC, and other PICES partners through implementation of the UN Decade of Ocean Science.

Facilitate partnerships with organizations and programs, within and outside of PICES, with interests in understanding North Pacific climate processes and impacts.

Participate in and contribute to organization of scientific fora to promote North Pacific climate research.

Goal 2: Understand the status and trends, vulnerability and resilience, of marine ecosystems

Promote coordinated activities dedicated to understanding physical and chemical processes in the North Pacific, their impacts on ecosystems, and their current status and trends.

Facilitate the development of modeling frameworks to improve climate and ecosystem predictability, and guide research and communication about the drivers and impacts of extreme events.

Communicate the status and trends of North Pacific climate conditions to the PICES and broader scientific communities.

Goal 4: Advance methods and tools

Advance the development of regional to basin-scale models of North Pacific physics and biogeochemistry, including seasonal forecasts and multi-decadal projections and data assimilation.

Develop modeling toolkit to facilitate research and operational forecasts throughout the North Pacific.

Contribute to the training of early career scientists on the development and use of models.

Promote advanced observational technologies and the rapid dissemination of data to the PICES community and other stakeholders.

Goal 5: Provide relevant scientific information pertinent to North Pacific ecosystems that is timely and broadly accessible

Provides data, products and information on North Pacific oceanographic conditions and climate variability and change to the PICES and broader scientific community through peer-reviewed publications and other PICES communication outlets.

Contribute to a publication of a special journal issue on North Pacific climate and ecosystem predictability, the North Pacific Ecosystem Status Reports, and contribute to other special issues on emerging issues of interest to PICES.

Goal 6: Engage with early career scientists to sustain a vibrant and cutting edge PICES scientific community

Promote the engagement of early career scientists in the work and leadership of POC and PICES, including the organization of Summer Schools on ocean processes, climate variability and change, methods of ocean modeling and observing, data analysis and management, and impacts of extreme events.

Work through NEAR-GOOS, SOLAS and other PICES partners to support the participation and involvement of young scientists in PICES meetings and projects.

Support and participate in the creation of a professional development program for early career scientists within PICES.