Projects and ActivitiesFri Mar 29 01:21:54 HST 2024

Name	Application of Latest IPCC Climate Models to Forecast Possible Marine Ecosystem Changes in the North Pacific Over the 21st Century (2 of 2)
Capability Area: Variability/Changes	- Understanding Climate Variability and Change - Research/Development - Projections (modeling and downscaling) - Training and Capacity Building, Education, Outreach
ECV	- Surface (e.g., SST, SSH, salinity, ocean color)
Timeframe	- Multi-decadal (scenarios)
Capability Area: Impacts/Adaptations	- Understanding Climate Impacts and Informing Adaptation - Climate Impacts - Projections (modeling and downscaling)
Sectors	- Agriculture and Fisheries - Ecosystems
Status	- Proposed
Focus Area	- Marine and Terrestrial Ecosystems
Regions	- Central North Pacific - Western North Pacific
Description	Take output from the latest IPCC climate models that include a phytoplankton component and use various approaches to project possible high trophic level impacts. The approaches include: i) a biome approach; ii) driving ecosystem/fisheries models with phytoplankton output from the climate model; and iii) a size spectrum model approach.
Objectives/Outcomes	Identifying possible future ecosystem changes for resource managers.
Lead Agencies	NOAA Pacific Islands Fisheries Science Center (PIFSC)
Contacts	Jeffrey Polovina, jeffery.polovina@noaa.gov Phoebe Woodworth, phoebe.woodworth@noaa.gov
Required Resources	Postdoc or funds for a postdoc.
Projected Timelines	2-3 years
Feedback/Evaluation	Presentations and publications