Projects and ActivitiesThu Mar 28 18:27:08 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<br>- Research/Development<br>- Projections (modeling and downscaling)<br>- 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<br>- Climate Impacts<br>- Projections (modeling and downscaling) |
| Sectors | - Agriculture and Fisheries<br>- Ecosystems |
| Status | - Proposed |
| Focus Area | - Marine and Terrestrial Ecosystems |
| Regions | - Central North Pacific<br>- 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) |
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| Required Resources | Postdoc or funds for a postdoc. |
| Projected Timelines | 2-3 years |
| Feedback/Evaluation | Presentations and publications |