

An Atlantis Ecosystem Model For The Gulf Of Mexico

An [Atlantis Ecosystem Model For](#)

Atlantis is a 3D, spatially-explicit, trophodynamic ecosystem model that integrates biology, physics, chemistry and human impacts (e.g. the effects of fishing on ecosystem structure) to provide a synoptic view of marine ecosystem function. Atlantis is a sophisticated, data integration tool that allows users to assess the influence of biogeochemical processes and anthropogenic impacts on the ecosystem, as a whole.

[Atlantis ecosystem model | NIWA](#)

Atlantis an ecosystem model that considers all parts of marine ecosystems - biophysical, economic and social.

[Atlantis Ecosystem Model - Atlantis](#)

Atlantis an ecosystem model that considers all parts of marine ecosystems - biophysical, economic and social. Originally focused on the biophysical world and then fisheries it has grown to begin to be used for multiple use and climate questions. Atlantis is a deterministic biogeochemical whole of ecosystem model.

[About Atlantis - Atlantis](#)

Atlantis: A spatially explicit end-to-end marine ecosystem model with dynamically integrated physics, ecology and socio-economic modules. 1814 | [wileyonlinelibrary.com/journal/mee3Methods Ecol Evol. 2019;10:1814–1819. 1 | INTRODUCTION. End-to-end marine ecosystem models are emerging as useful. tools for exploring the full cycle of processes that affect natural.](#)

[Atlantis: A spatially explicit end-to-end marine ecosystem ...](#)

Atlantis models are not intended to be used for tactical short-term advice such as setting quotas, but for strategic analyses or exploring options for ecosystem-based fisheries management. They summarize the current knowledge of an ecosystem given the model assumptions, identify trade-offs between management objectives, and test hypotheses.

[Atlantis: A spatially explicit end-to-end marine ecosystem ...](#)

Atlantis ecosystem model. Software for modelling marine ecosystem including spatial and temporal dynamics. Download manuscript (link to the published manuscript introducing the model will be available here) This page contains an example of an operational Atlatis model with details of the parameter (input) files and model output files given.

[GitHub - Atlantis-Ecosystem-Model/Atlantis_example_and...](#)

LiveOcean, Atlantis and the Salish Sea Model are three systems that are changing the game for ecologists and other researchers. Locations of shellfish beds in the Salish Sea (left) compared to regions predicted by the Salish Sea Model to have high microplastic accumulation (right).

[Ecosystem models expand our understanding of the Salish ...](#)

In Atlantis-Ecosystem-Model/ReactiveAtlantis: Multiple Reactive HTML tools to help in the calibration of the Atlantis ecosystem model (AEM) DescriptionUsageArgumentsValueAuthor(s) View source: R/food.web.R. Description. This function allows you to explore the changes in the food web structure and trophic level for an specific functional group through time.

[food.web: Trophic level in Atlantis-Ecosystem-Model...](#)

In Atlantis-Ecosystem-Model/ReactiveAtlantis: Multiple Reactive HTML tools to help in the calibration of the Atlantis ecosystem model (AEM) Defines functions plot.tlvl trophic.lvl tot.prey ord Tlevel prey.pos food.web Documented in food.web ord plot.tlvl prey.pos Tlevel tot.prey trophic.lvl

[Atlantis-Ecosystem-Model/ReactiveAtlantis source: R/food.web.R](#)

Atlantis Ecosystem Model has 4 repositories available. Follow their code on GitHub.

[Atlantis Ecosystem Model - GitHub](#)

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One such model is the Atlantis Ecosystem Model (Atlantis), which can produce realistic simulations of ecosystem dynamics and serve as a strategic management tool for the exploration of ecological hypotheses, simulations of climate scenarios, and testing of human effects on the environment. These human effects include fisheries, tourism, extraction of natural resources, changes in land use, and nonpoint-source pollution.

[NOAA PFSC - Ecological Assessment of Invertebrates](#)

As part of this program, we have parametrized an Atlantis ecosystem model for the Gulf of Mexico, including major functional groups, physiographic dynamics, and fishing fleets. The Gulf of Mexico (GOM) Atlantis model represents a collaboration between the University of South Florida, the University of Miami, the Southeast Fisheries Science ...

[Welcome to the NOAA Institutional Repository](#)

We present a new framework, with a Baltic implementation of the spatially-explicit end-to-end Atlantis ecosystem model linked to two external models, to explore the different pressures on the marine ecosystem. The HBM-ERGOM initializes the Atlantis model with high-resolution physical-chemical-biological and hydrodynamic information while the ...

[The Baltic Sea Atlantis: An integrated end-to-end ...](#)

Atlantis Atlantis is a deterministic biogeochemical whole of ecosystem model. It's overall structure is based around the Management Strategy Evaluation approach, where there is a sub-model (or module) for each of the major steps in the adaptive management cycle (Figure 1).

[CSIRO Marine and Atmospheric Research - Our Research](#)

Ina Nilsen, Jeppe Kolding, Cecilie Hansen, Daniel Howell, Exploring Balanced Harvesting by Using an Atlantis Ecosystem Model for the Nordic and Barents Seas, *Frontiers in Marine Science*, 10.3389/fmars.2020.00070. 7, (2020).

[Lessons in modelling and management of marine ecosystems ...](#)

Atlantis: A Decision Support Tool for Ecosystem-based Management One model is the Atlantis Ecosystem Model, which can produce realistic simulations of ecosystem dynamics.

[Ecosystem Modeling in the Pacific | NOAA Fisheries](#)

Atlantis Ecosystem model Icelandic waters Sensitivity analysis Skill assessment ABSTRACT Icelandic waters are very productive and the fisheries are economically important for the Icelandic nation. The importance of the fisheries has led to progressive fisheries management and extensive monitoring of the eco-system.

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