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The Atlantis Ecosystem Model in Support of Ecosystem-Based .

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ified after the Port Phillip Bay Integrated Model (Murray & Parslow, 1997, 1999), European Regional Seas Ecosystem Model (Ebenhöh, Kohlmeier, & Radford, 1995) and IGBEM marine bay ecosystem model (Fulton, Smith, & Johnson, 2004). To date, AtIantis has been applied in assessing alternative fish ?

Progression of a Gulf of Mexico food web supporting ...
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.

Atlantis Ecosystem Model - Northwest Fisheries Science Center
The Atlantis ecosystem model ('Atlantis') is a flexible, modular modeling framework capable of producing realistic simulations of

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ecosystem dynamics. Atlantis serves as a strategic management tool capable of exploring ecological hypotheses, simulating climate

GitHub - Atlantis-Ecosystem-Model/Atlantis_example_and ...
The Atlantis Ecosystem Model is an ecosystem model that can address all these components in a full MSE context while taking into account fisheries, climate and environmental variability, and multi-sectoral dynamics (Fulton et al., 2011). To date, more than 100 models are in various stages of development (Fig.

Atlantis ecosystem model | NIWA

One model is the Atlantis Ecosystem Model, which can produce realistic simulations of ecosystem dynamics. The model simulation can be used to explore ecological hypotheses, simulate different

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climate scenarios, and test human effects on the environment including fishing, tourism, natural resource extraction, land use, and nonpoint-source pollution.

Atlantis Ecosystem Model - National Oceanic and ...

Atlantis ecosystem model 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: A spatially explicit end-to-end marine ecosystem ...

A proof-of-concept Guam Atlantis Coral Reef Ecosystem Model has been developed and an added coral module to the Atlantis

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framework has been validated. The model is applied for management-strategy evaluation by simulating existing and alternative fisheries and land-use regulations and comparing the results under different management and environmental change scenarios (e.g. in terms of fish ...

An Atlantis Ecosystem Model For
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 be used for multiple use and climate questions. Atlantis is a deterministic biogeochemical whole of ecosystem model.

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Frontiers | Ocean Futures Under Ocean Acidification ...

A package to help users of Atlantis investigate the parameters that are spread across multiple files (.csv, .nc) when constructing the ecosystem model. Usage in R Install dependencies if they are not already installed .

Atlantis: A Model for Biophysical, Economic and Social ...

An Atlantis Ecosystem Model for the Gulf of Mexico Supporting Integrated Ecosystem Assessment Tuesday, 24 November 2015
Gulf of Mexico supports a high biological diversity and biomass fish, seabirds, and mammals; in this region, multiple commercial and recreational fishing fleets operate providing economic resources for local populations.

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GitHub - Atlantis-Ecosystem-Model/shinyrAtlantis: visual ...

Atlantis is a biogeochemical marine ecosystem model representing ocean physics, nutrient cycling, high trophic level dynamics and fisheries, in three spatial dimensions. Fulton et al. (2007) provide thorough fisheries management application in Australia, and Fulton et al. (2011) present a meta-analysis of global applications.

An Atlantis Ecosystem Model for the Gulf of Mexico ...

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.

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Atlantis: A spatially explicit end-to-end marine ecosystem ...
As a part of my PhD study at the Danish Technical University (DTU Aqua), I made a video about my research where an Atlantis Ecosystem Model for the Baltic Sea has been created. For more ...

About Atlantis - Atlantis

Atlantis ecosystem model. Software for modelling marine ecosystems 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 Atlantis model with details of the parameter (input) files and model output files given.

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Atlantis Ecosystem Model Summit: Report from a workshop ...
The Atlantis Ecosystem Model in Support of Ecosystem-Based
Fishery Management in the California Current Large Marine
Ecosystem Northwest Fisheries Science Center, Seattle, WA
External Independent Peer Review By Kenneth T. Frank, Ph.D.,
FRSC 22 Carriageway Court Bedford, Nova Scotia, Canada B4A
3V4 Prepared for the Center for Independent Experts

repository.library.noaa.gov

We present Atlantis – a spatially structured largely deterministic
end-to-end marine ecosystem model written in C, available for a
major operating systems, based on dynamically interacting physics
biology, fisheries, management, assessment and economics
submodels. A detailed installation guide and example application

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files are also ...

Ecosystem Modeling in the Pacific | NOAA Fisheries

Atlantis is a spatially structured end-to-end marine ecosystem model written in C and available for all major operating systems. It's based on dynamically interacting physics, biology, fisheries, management, assessment and economics sub-models. This Atlantis code base has been actively developed by CSIRO (Australia) for almost 20 years and shared extensively worldwide.

Atlantis Ecosystem Model - Atlantis

Atlantis Ecosystem Model Background Atlantis was developed at CSIRO (Australia) as an 'end-to-end' simulation modeling approach for marine ecosystems that includes oceanographic,

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chemical (nutrient cycling), ecological (competition and predation) and anthropogenic processes in a three-dimensional, spatially explicit domain.

Baltic Atlantis Ecosystem Model

Below we detail the Atlantis ecosystem model framework, the parameterized marine ecosystems investigated, and the common scenarios tested. Atlantis Ecosystem Modeling Framework Atlantis represents physical oceanography, nutrient cycling, trophic dynamics from primary producers to apex predators, and fisheries in a three-dimensional, spatially-explicit domain (Fulton et al., 2004a , b , 2011).

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