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Ecosystem
Model For The
Gulf Of Mexico
The Gulf Of
Mexico

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Ecosystem Model

For

Atlantis is a 3D, spatially-explicit,

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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

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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

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Atlantis an ecosystem model for the Gulf of Mexico that considers all parts of marine ecosystems – biophysical, economic and social.

Atlantis Ecosystem

Model - Atlantis

Atlantis an ecosystem model that considers all

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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

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biogeochemical
whole of
ecosystem model.
Model For The
Gulf Of Mexico

About Atlantis - Atlantis

Atlantis: A spatially
explicit end-to-end
marine ecosystem
model with
dynamically
integrated physics,
ecology and
socio-economic

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modules. 1814 | wil
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hods Ecol Evol. 201
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| INTRODUCTION.

End-to-end marine
ecosystem models
are emerging as
useful. tools for
exploring the full
cycle of processes
that affect natural.

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Atlantis: A spatially explicit end-to-end marine ecosystem
Gulf Of Mexico

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

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fisheries

ecosystem 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

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explicit end-to-end
marine ecosystem

Model For The
Gulf Of Mexico
Atlantis ecosystem
model. Software for
modelling marine
ecosystem
including spatial
and temporal
dynamics.

Download
manuscript (link to
the published
manuscript

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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.

[GitHub - Atlantis-Ecosystem-Model/Atla](#)

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ntis_example_and

Model For The

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

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Ecosystem
Model For The
Gulf Of Mexico

by the Salish Sea
Model to have high
microplastic
accumulation
(right).

Ecosystem models
expand our
understanding of
the Salish ...

In Atlantis-Ecosyste
m-Model/ReactiveA
tlantis: Multiple
Reactive HTML

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tools to help in the calibration of the Atlantis ecosystem model (AEM) Description Usage Arguments Value Author(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

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Ecosystem

functional group
through time.

Model For The
Gulf Of Mexico

food.web: Trophic
level in Atlantis-
Ecosystem-Model

...

In Atlantis-Ecosyste
m-Model/ReactiveA
tlantis: Multiple
Reactive HTML
tools to help in the
calibration of the

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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/ReactiveAtl

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antis 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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Of Mexico model
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roughly the world.

Model For The

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Ecosystem Model

For The Gulf Of

Mexico

One such model is

the Atlantis

Ecosystem Model

(Atlantis), which

can produce

realistic

simulations of

ecosystem

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Model For The
Gulf Of Mexico

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,

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ecosystem of natural resources, changes in land use, and nonpoint-source pollution.

NOAA PIFSC -
Ecological
Assessment of
Invertebrates

As part of this program, we have parametrized an Atlantis ecosystem

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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

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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

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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

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information while
the ...

Model For The

Gulf Of Mexico

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

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Ecosystem

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

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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/f

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ecosystem
Model For The
Gulf Of Mexico

mar.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

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Ecosystem Model For The Gulf Of Mexico
Model, which can produce realistic simulations of ecosystem dynamics.

Ecosystem

Modeling in the

Pacific | NOAA

Fisheries

Atlantis Ecosystem

model Icelandic

waters Sensitivity

analysis Skill

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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

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Ecosystem monitoring of the
Model For The
Gulf Of Mexico

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