

An Atlantis Ecosystem Model For The Gulf Of Mexico

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An Atlantis Ecosystem Model For

Atlantis Ecosystem Model - National Oceanic and ...

Atlantis integrates physical, chemical, ecological, and fisheries dynamics in a spatially-explicit, three dimensional domain Food web interactions for the Northern Gulf of California used to parametrize an Atlantis ecosystem model (Ainsworth et al 2010) In Atlantis, the user can choose the level of ...

Ecosystem models: Atlantis model exploration and evaluation

Ecosystem models: Atlantis model exploration and evaluation Vidette McGregor Peter Horn, Beth Fulton, Matt Dunn Tasman and Golden Bays Chatham Rise NZ Atlantis models Scenarios exploring 'what-if' type questions Bottom-up (eg climate change) and top-down (eg fishing) controls One of the best in the world Applications in Australia, the United States, Europe, and South Africa

The Atlantis Ecosystem Model in Support of Ecosystem-Based ...

Two previous versions of the Atlantis model have been developed for the California current (Brand et al 2007; Horne et al 2010) Adopting the Atlantis model was viewed by the NWFSC as a testing ground for exploring model complexity, and improving ecological and whole ecosystem understanding The ...

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

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, Atlantis has been applied in assessing alternative fish -

First implementation of the ecological model ATLANTIS in ...

in Atlantis are consumption, production, migration, recruitment, waste production, habitat dependency, predation and (natural and fishing) mortality

The outputs of the model consist of deterministic time series for each component in the modelled ecosystem This model has been used in the Westernport Scoping Study to determine data requirements

End-to-end model of Icelandic waters using the Atlantis ...

species or ecological models are essential for building capacity around ecosystem-based fisheries management This paper describes the first end-to-end model for the Icelandic waters using the Atlantis modeling framework The modeled area is 1,600,000km², and covers the area from Greenland through Icelandic waters to the Faroe Islands The

An ecosystem-based modeling approach: The Chesapeake Atlantis Model ...

1 An ecosystem-based modeling approach: The Chesapeake Atlantis Model (CAM) Tom Ihde Versar, Inc, NOAA Chesapeake Bay Office and Howard Townsend

Applications of the Atlantis Model in the Gulf of Mexico

- Lagrangian passive drift model of larval transport
- Individual based model
- Driven by GoM HYCOM NCODA (Chassignet et al 2007)
- Egg density calculated based on spawner biomass (from generalized additive model, Drexler and Ainsworth 2011)
- Source/destination matrix imported to Atlantis
- Provides connectivity for 46 spp Red grouper

Ecosystem models: Types and characteristics

4 Whole ecosystem models ERSEM European Regional Seas Ecosystem Model (NPZ-fish) Atlantis Deterministic bio-geochemical with MSE INVITRO Agent based MSE framework GEEM General Equilibrium Ecosystem Model EwE Ecopath with Ecosim (UBC); time-space dynamics with MSE SSEM Shallow Seas Ecosystem Model (NPZ-fish) Attempt to describe all trophic levels in the ecosystem

BEDIENUNGSANLEITUNG FÜR DEN ELEKTRONISCHEN TRESOR ...

BEDIENUNGSANLEITUNG FÜR DEN ELEKTRONISCHEN TRESOR MOD ATLANTIS 1 !!ACHTUNG: Bitte lesen Sie diese Bedienungsanleitung sorgfältig durch, bevor Sie das Schloß betätigen oder eine neue Kombination einstellen wollen Wir übernehmen keinerlei Haftung weder für Funktionsstörungen

Exploring balanced harvesting by using an Atlantis ...

drastic changes to the ecosystem in the form of stock collapses or severely changed biomass levels This study represents the first attempted examination of implementing balanced harvesting based on productivity, using an Atlantis ecosystem model

Managed Seas: Ecosystem Models

Validation of the TBGB Atlantis model is now a key activity More evaluation of alternative assumptions and models This will include developing simplified models (eg, size-spectrum models) Extending Atlantis (within existing code base): Terrestrial impacts, socio-economics Agree and run scenarios Communication and collaboration Next steps

Update for 2014 Methodology Review: Ongoing Revisions to ...

1 Update for 2014 Methodology Review: Ongoing Revisions to the Spatially Explicit Atlantis Ecosystem Model of the California Current Isaac C Kaplan¹, Kristin N Marshall^{1,2}, Emma Hodgson², Laura Koehn² Northwest Fisheries Science Center

Review&of&theAtlantis&Ecosystem&Model&in&Support&of ...

Reginald)Watson))) Atlantic)CaliforniaCurrent)Review)2014)) Review&of&theAtlantis&Ecosystem&Model&in&Support&of&Ecosystem: BasedFishery&Management&intheCalifornia

EcosystEm modElIng for thE california currEnt intEgratEd ...

documents/atlantIs_ecosystem_model.pdf as well as in recent publications (Horne et al 2010; Kaplan et al 2011) I then presented two case studies, and a recent report made to the Pacific Fishery Management Council that included results from Atlantis and other Integrated Ecosystem assessment tools The first case study (published as Kaplan et

Participatory tools- Project 5.1.4 Interactive tools for ...

COMPLEX ECOSYSTEM MODELS Atlantis; Ecopath/Ecosym MICE models Spatially explicit disturbance/recovery models STAKEHOLDER ENGAGEMENT, DECISION FRAMEWORK AND RISK ASSESSMENT MODELS BN and other descriptive modelling tools for: • facilitating stakeholder understanding of ecosystem cause and effect • developing and evaluating decision rules • risk ...

Exploring the effects of discarding using the Atlantis ...

Exploring the effects of discarding using the Atlantis ecosystem model for Icelandic waters Erla Sturludottir Science Institute, University of Iceland, Taeknigardur, Dunhagi 5, 107 Reykjavik, Iceland

ATLANTIS Beyond CAD/CAM - Dentsply Sirona

Beyond CAD/CAM For all major implant systems Clinical benefits meet patient satisfaction Incorporating ATLANTIS into the dental practice and dental laboratory provides peace of mind for both clinicians and dental technicians while allowing for increased efficiency and profitability Surgical flexibility ATLANTIS ISUS is available for all major implant systems, and with 290 compatible implant

Integrated ecosystem model of Icelandic waters

incorporates a fisheries model which includes 11 fishing fleets all with its one characteristics such as selectivity, target species and by-catch The aim is to produce a realistic model of the ecosystem that can be used for scenario testing and for management strategy evaluation Keywords: Atlantis, ecosystem model, Icelandic waters

Extracts from Plagányi (2007) summarising EwE, Atlantis ...

model inputs Somhlaba (2006) suggests that ECORANGER is likely computationally inefficient and could be improved Aspects of the actual EwE model structure that Extracts from Plagányi (2007) summarising EwE, Atlantis and OSMOSE Ecosystem models MARAM IWS/DEC11/P/LTL/BG2