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Институт цитологии Российской Академии Наук

14.05.2019

**Филатов Максим Михайлович**

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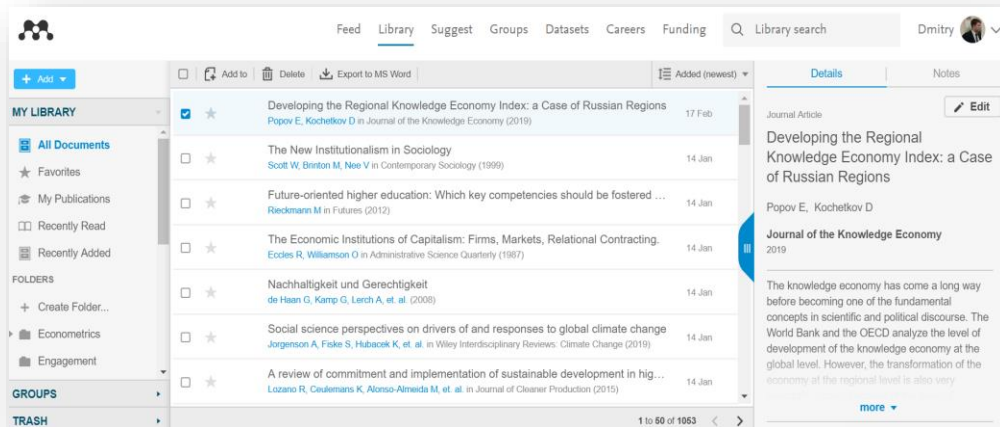
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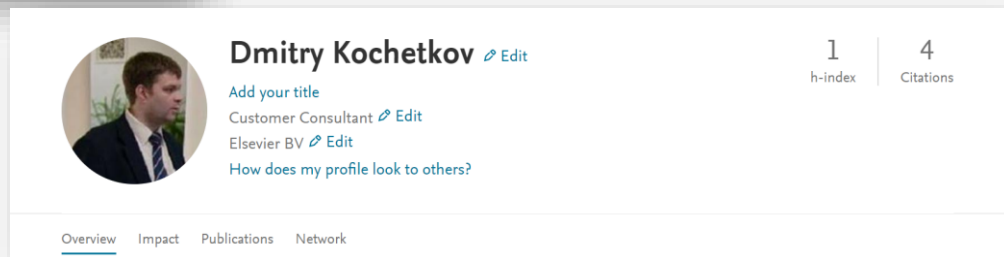
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Ocean Dynamics

Volume 56, Issue 5-6, December 2006, Pages 543-567

## Impact of partial steps and momentum advection schemes in a global ocean circulation model at eddy-permitting resolution (Article)

Bernard, B.<sup>a</sup> Madec, G.<sup>b</sup> Penduff, T.<sup>a</sup> Molines, J.-M.<sup>a</sup> Treguier, A.-M.<sup>c</sup> Le Sommer, J.<sup>a</sup> Beckmann, A.<sup>d</sup> Biastoch, A.<sup>e</sup> Böning, C.<sup>e</sup> Dengg, J.<sup>e</sup> Derval, C.<sup>f</sup> Durand, E.<sup>f</sup> Gulev, S.<sup>g</sup> Remy, E.<sup>f</sup> Talandier, C.<sup>b</sup> Theetten, S.<sup>c</sup> Maltrud, M.<sup>h</sup> McClean, J.<sup>i</sup> De Cuevas, B.<sup>j</sup>

<sup>a</sup>Laboratoire des Écoulements Géophysiques et Industriels, Grenoble, France

<sup>b</sup>Laboratoire d'Océanographie Dynamique et de Climatologie, Paris, France

<sup>c</sup>Laboratoire de Physique des Océans, Ifremer Centre de Brest, Plouzané, France

<sup>d</sup>Department of Physical Sciences, Division of Geophysics, University of Helsinki, Helsinki, Finland

<sup>e</sup>IfM-GEOMAR, Leibniz-Institut für Meereswissenschaften, Universität Kiel, Kiel, Germany

<sup>f</sup>MERCATOR-Ocean, Toulouse, France

<sup>g</sup>Shirshov Institut of Oceanography, Russian Academy of Science, Moscow, Russian Federation

<sup>h</sup>Fluid Dynamics Group, Los Alamos National Laboratory, Los Alamos, United States

<sup>i</sup>Scripps Institution of Oceanography, UCSD, San Diego, United States

<sup>j</sup>National Oceanography Centre, Southampton, United Kingdom

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### Краткое описание

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Series of sensitivity tests were performed with a z-coordinate, global eddy-permitting (1/4°) ocean/sea-ice model (the ORCA-Ro25 model configuration developed for the DRAKKAR project) to carefully evaluate the impact of recent state-of-the-art numerical schemes on model solutions. The combination of an energy-enstrophy conserving (EEN) scheme for momentum advection with a partial step (PS) representation of the bottom topography yields significant improvements in the mean circulation. Well known biases in the representation of western boundary currents, such as in the Atlantic the detachment of the Gulf Stream, the path of the North Atlantic Current, the location of the Confluence, and

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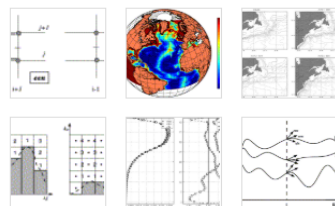
1. Introduction
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6. Conclusion and discussion

Acknowledgements

References

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## Figures (14)



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Ocean Modelling  
Volume 29, Issue 1, 2009, Pages 1-14



## How momentum advection schemes influence current-topography interactions at eddy permitting resolution

Julien Le Sommer <sup>a</sup>, Thierry Penduff <sup>a</sup>, Sébastien Theetten <sup>b</sup>, Gervan Madec <sup>c</sup>, Bernard Barnier <sup>a</sup>

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## Abstract

Recent studies have shown that the use of an enstrophy-and-energy-conserving momentum **advection** scheme substantially reduces widespread biases of mean currents in the global 1/4° DRAKKAR model. This paper investigates the origin of these improvements. A series of sensitivity simulations with different momentum advection schemes is performed with the North Atlantic 1/4° DRAKKAR model. Three second order momentum advection schemes conserving, respectively, **enstrophy** (*ens*), energy (*efx*) and both quantities (*een*) are tested and their impact on the model solution are compared.

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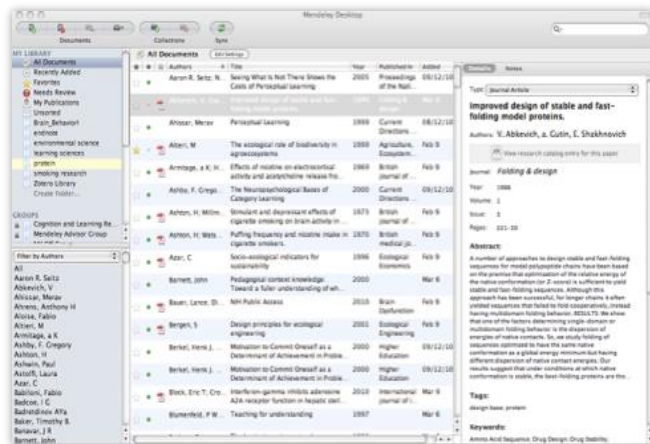
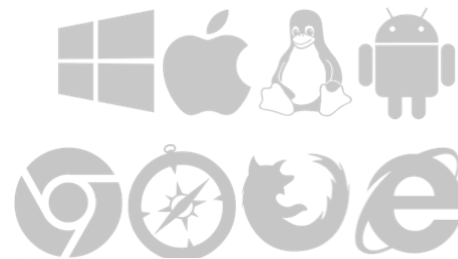
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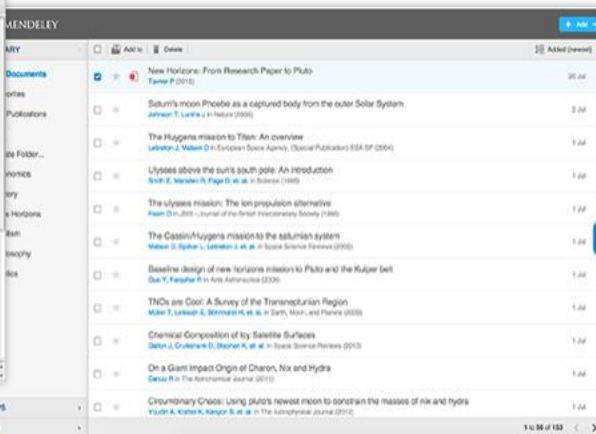


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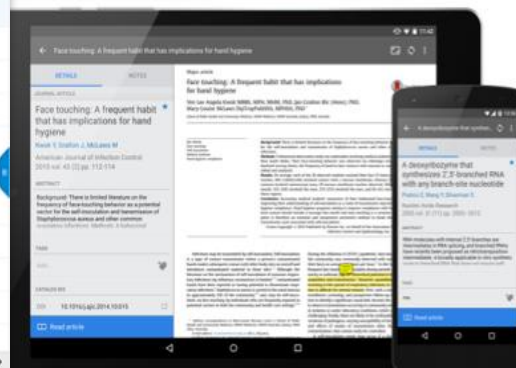
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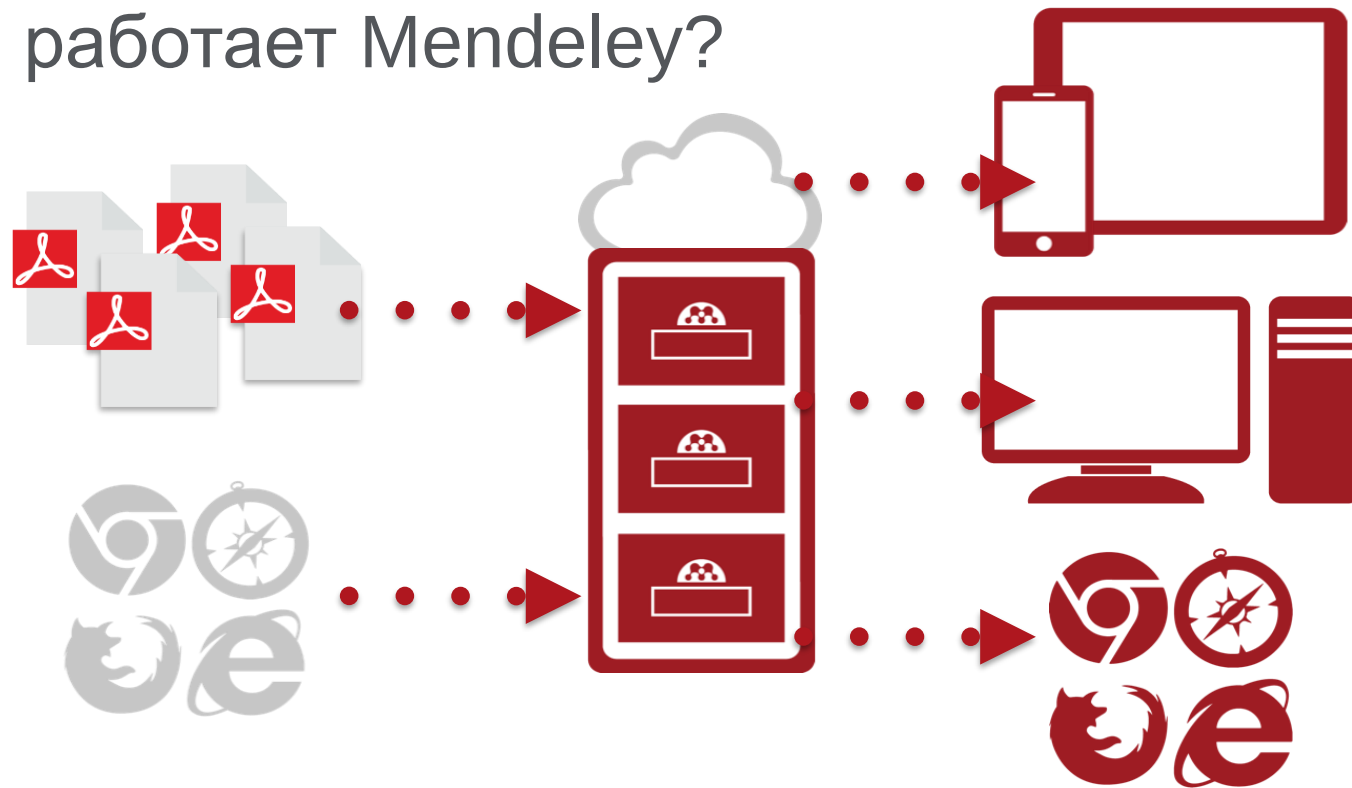
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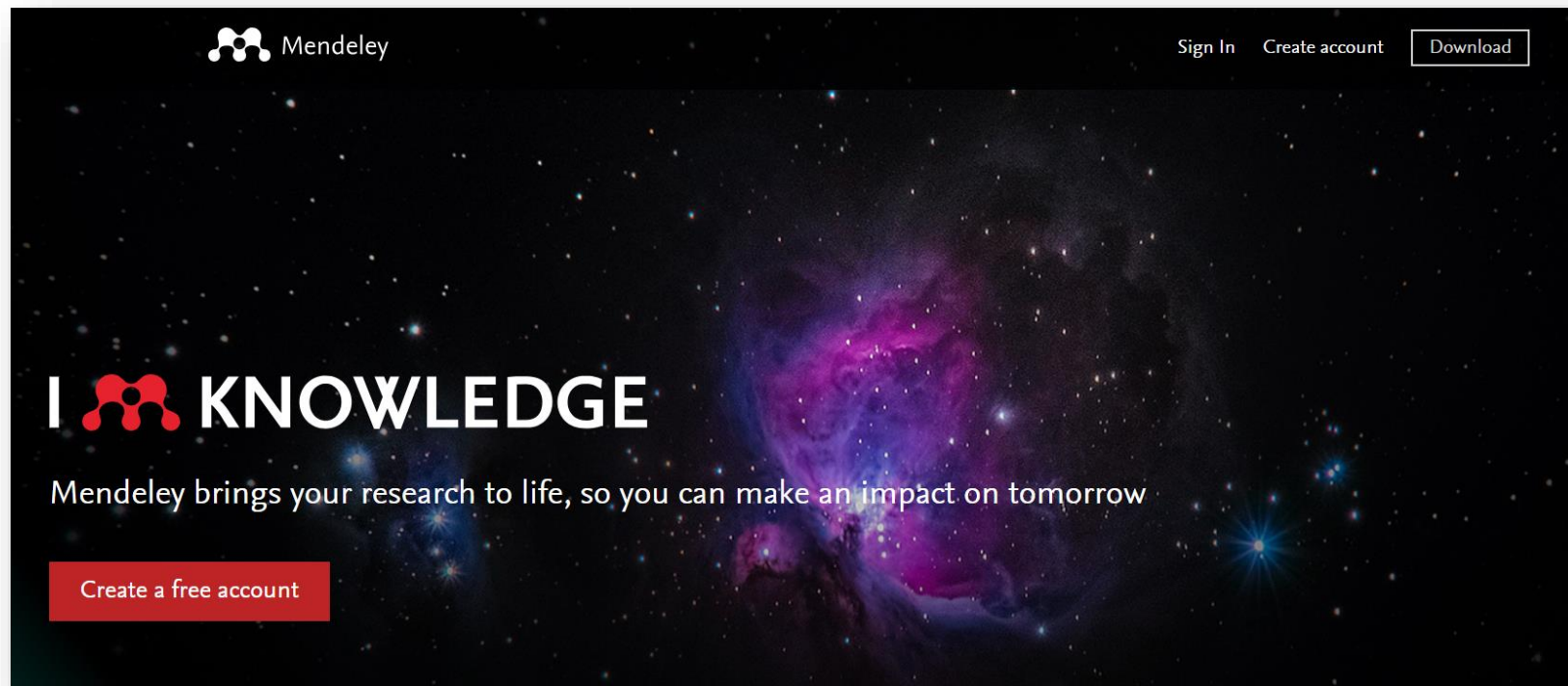


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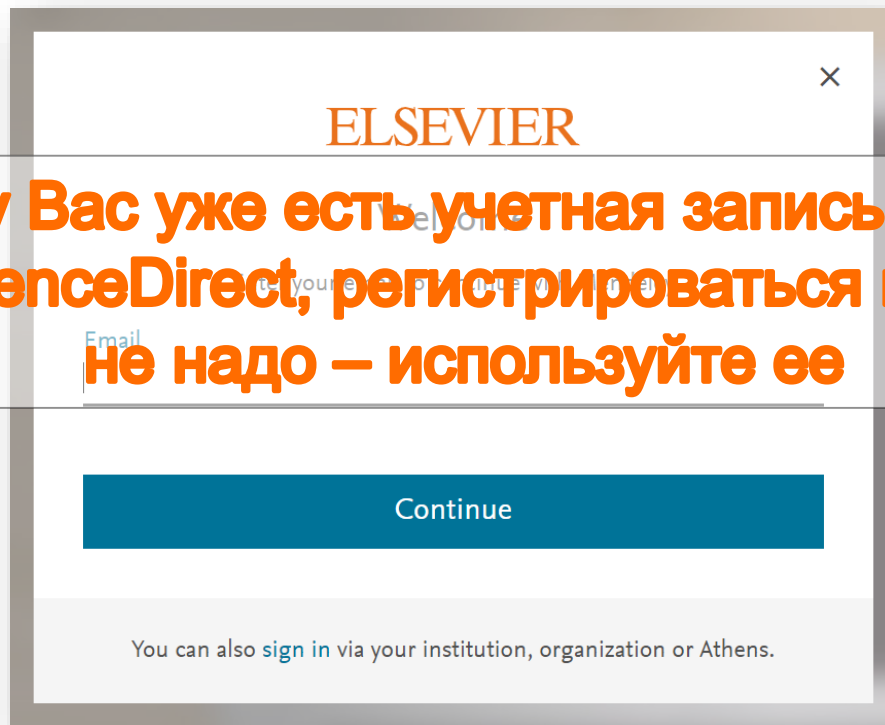
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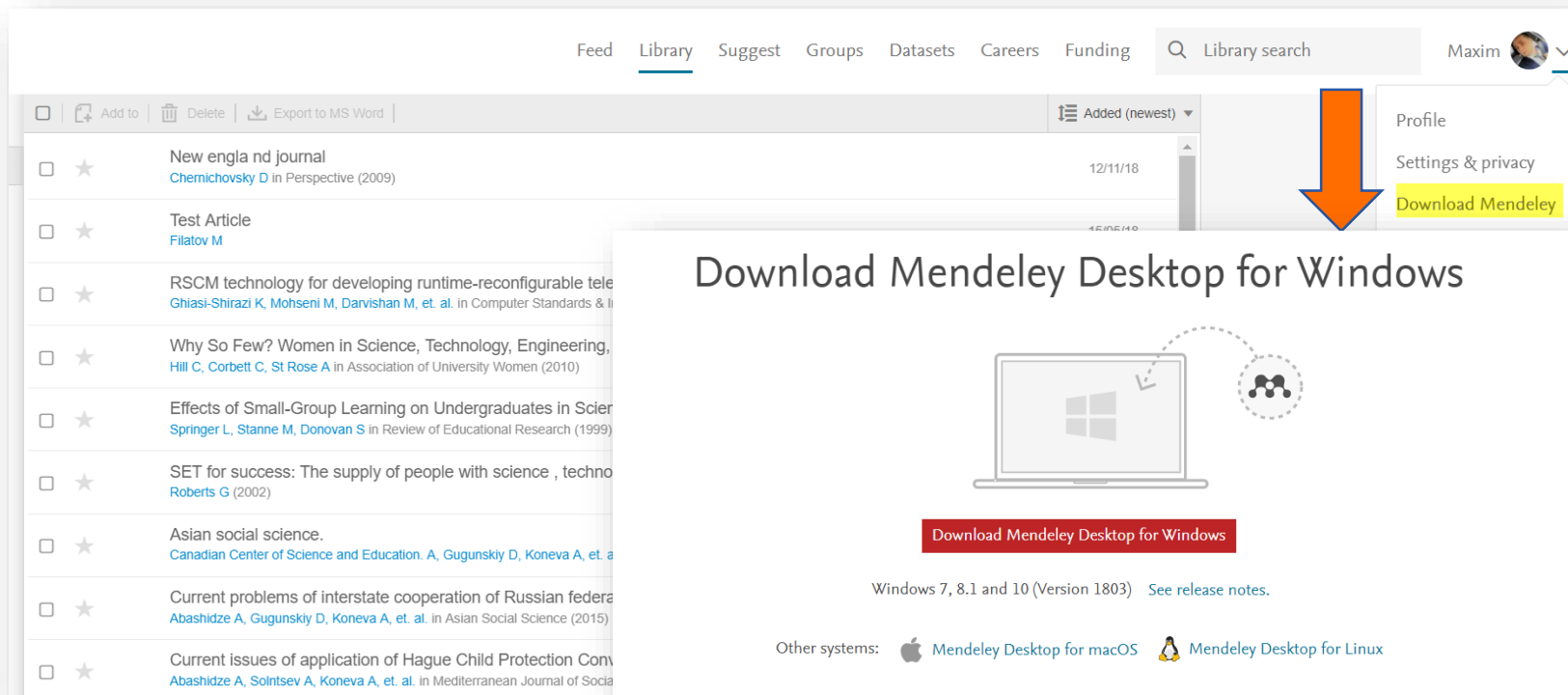




The screenshot displays the Elsevier ResearcherID interface. At the top, the navigation bar includes 'Feed', 'Library', 'Suggest', 'Groups', 'Datasets', 'Careers', 'Funding', 'Search', and a user profile 'Maxim'. An orange arrow points to the 'Library' tab. Below the navigation bar, there is a section for sharing updates with followers, a 'Post' button, and the Elsevier logo. On the left, a 'FILTER BY' sidebar lists 'All posts', 'Citation updates', 'Article suggestions', and 'Recently published articles'. Below this, a 'GROUPS' section shows 'Journal of Strategic Decisions & Risk Management' and 'Maxim closed Group'. The main content area is divided into two panels. The left panel, titled 'Download', encourages users to access their library on a tablet and provides a 'Get Reference' button. The right panel, titled 'MY LIBRARY', shows a list of references with columns for selection, star status, title, author, and date. The references listed are:

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Details Notes Contents

Type: Journal Article

**Impact of the "Symmetric Instability of the Computational Kind" at mesoscale- and submesoscale-permitting r...**

Authors: N. Ducousso, J. Le Sommer, J. Molines et al.

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Journal: *Ocean Modelling*

Year: 2017

Volume: 120

Issue:

Pages: 18-26

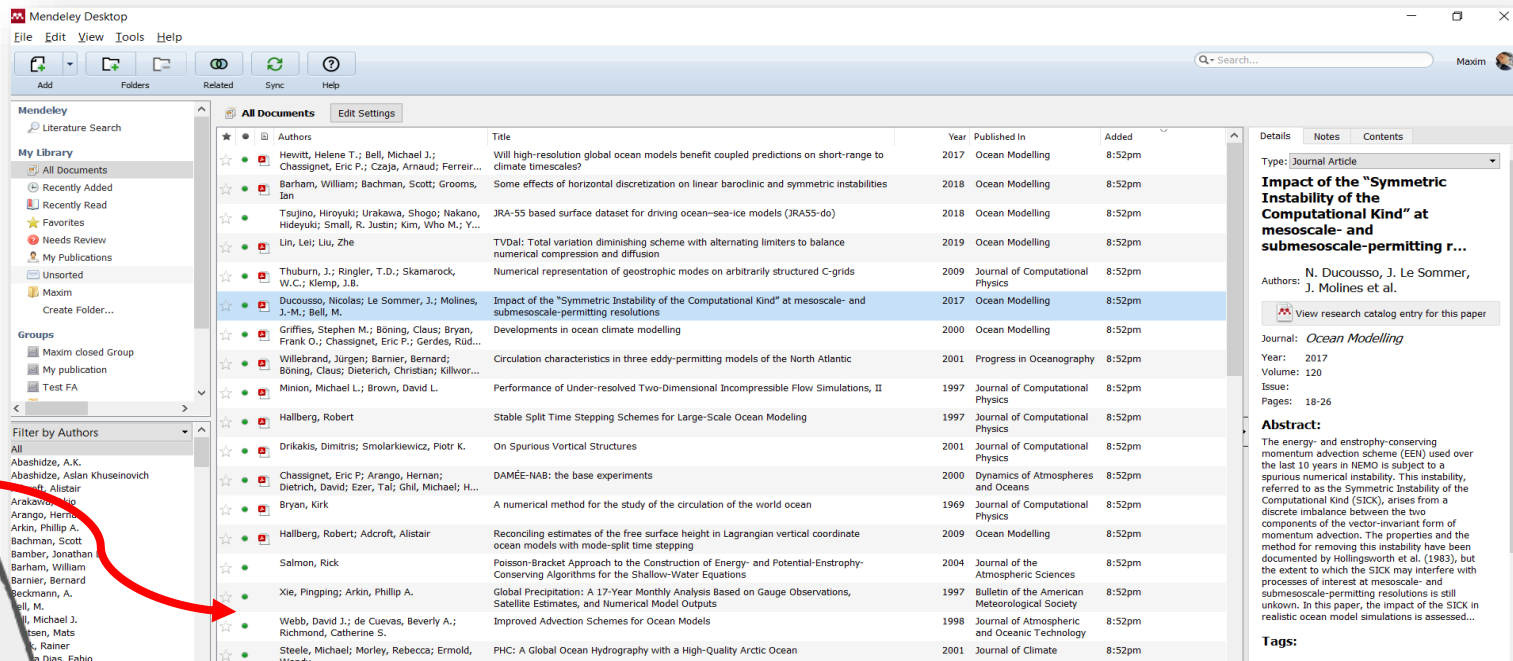
**Abstract:**

The energy- and enstrophy-conserving momentum advection scheme (EEN) used over the last 10 years in NEMO is subject to a spurious numerical instability. This instability, referred to as the Symmetric Instability of the Computational Kind (SICK), arises from a discrete imbalance between the two components of the vector-invariant form of momentum advection. The properties and the method for removing this instability have been documented by Hollingsworth et al. (1993), but the extent to which the SICK may interfere with processes of interest at mesoscale- and submesoscale-permitting resolutions is still unknown. In this paper, the impact of the SICK in realistic ocean model simulations is assessed...

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Details: Journal Article  
Type: Journal Article  
Authors: N. Ducousso, J. Le Sommer, J. Molines et al.  
Journal: Ocean Modelling  
Year: 2017  
Volume: 120  
Issue:  
Pages: 18-26  
Abstract: The energy- and enstrophy-conserving momentum advection scheme (EEN) used over the last 10 years in MEMO is subject to a spurious numerical instability. This instability, referred to as the Symmetric Instability of the Computational Kind (SICK), arises from a discrete imbalance between the two components of the vector-invariant form of momentum advection. The properties and the method for removing this instability have been documented by Hollingsworth et al. (1983), but the extent to which the SICK may interfere with processes of interest at mesoscale- and submesoscale-permitting resolutions is still unknown. In this paper, the impact of the SICK in realistic ocean model simulations is assessed...

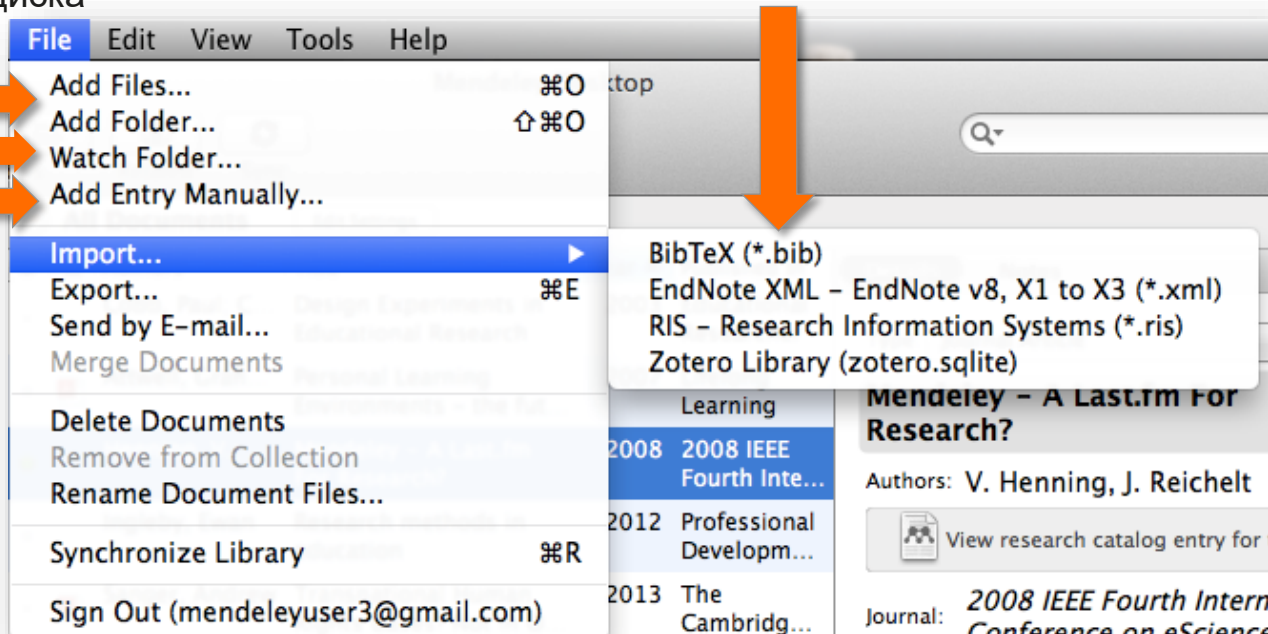
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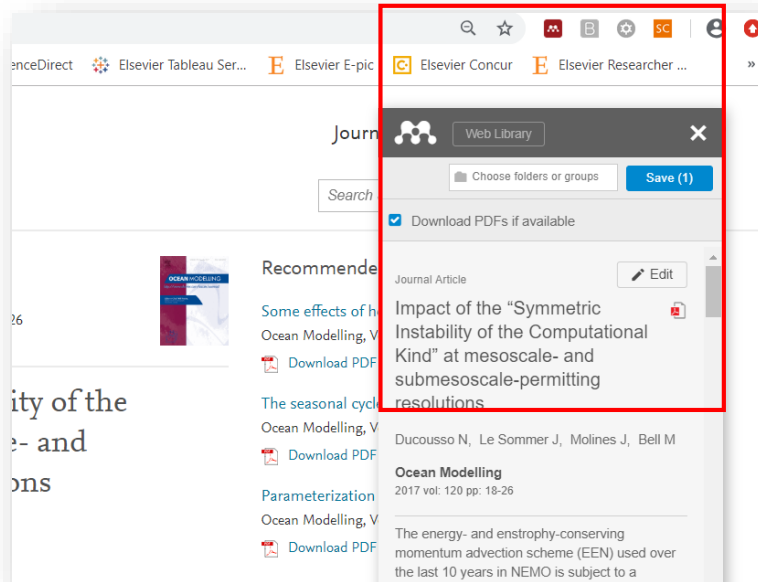
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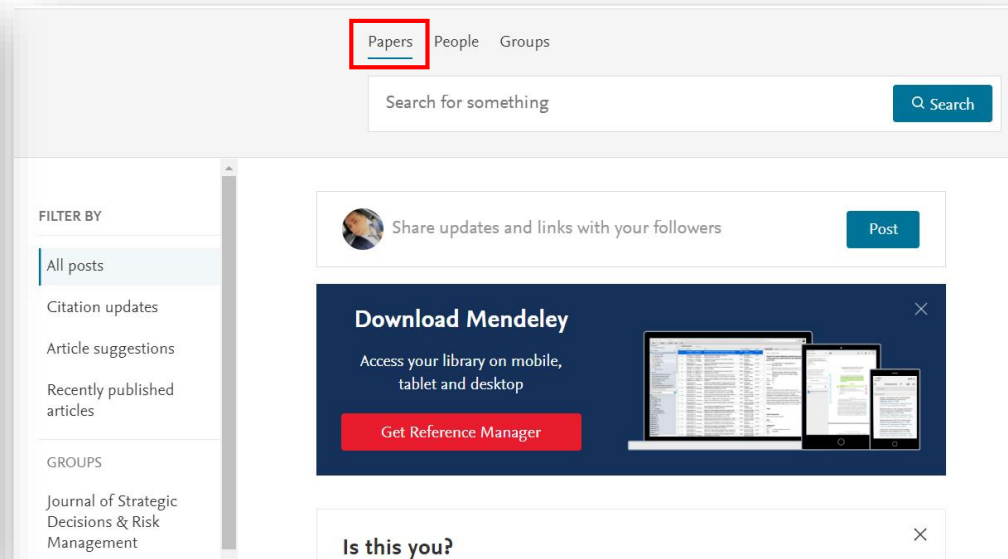


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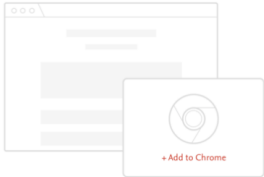
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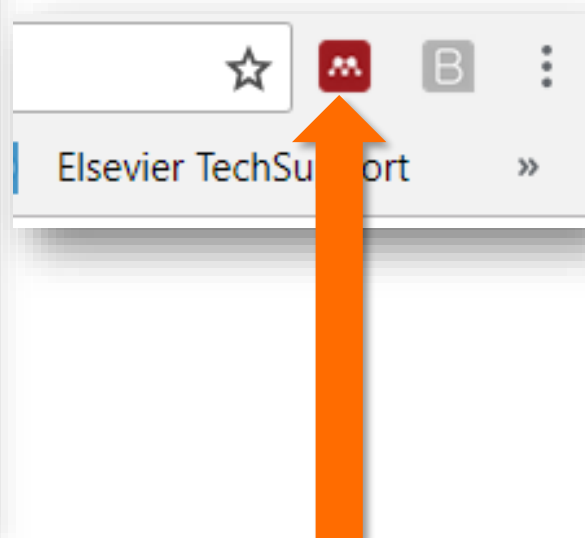
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- Mendeley-a last.fm for research?** by V. Henning, J. Reichelt. Abstract: This paper aims to explore how the principles of a well-known Web 2.0 service, the world's largest social music service "Last.fm" (www.last.fm), can be applied to research, which potential it could have in the world of research (eg an open and interdisciplinary database ...). Cited by: 106. [\[PDF\] researchgate.net](#)
- [PDF] F1000, Mendeley and traditional bibliometric indicators** by X. Li, M. Thelwall. Abstract: This article compares the Faculty of 1000 (F1000) quality filtering results and Mendeley usage data with traditional bibliometric indicators, using a sample of 1397 Genomics and Genetics articles published in 2008 selected by F1000 Faculty Members (FMs). Both ... Cited by: 112. [\[PDF\] byu.edu Full Text @ BI](#)
- Mendeley: Creating communities of scholarly inquiry through research collaboration** by H. Zaugg, R. E. West, I. Tateishi, D. L. Randall. Abstract: Mendeley is a free, web-based tool for organizing research citations and annotating their accompanying PDF articles. Adapting Web 2.0 principles for academic scholarship, Mendeley integrates the management of the research articles with features for collaborating ... Cited by: 91.

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How momentum advection schemes influence current-topography interactions at eddy permitting resolution

Ocean Modelling, Volume 29, Issue 1, 2009, Pages 1-14

Julien Le Sommer, Thierry Penduff, Sébastien Theetten, Gurvan Madec, Bernard Barnier

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Impact of the "Symmetric Instability of the Computational Kind" at mesoscale- and submesoscale-permitting resolution

Ocean Modelling, Volume 120, December 2017, Pages 18-26

Nicolas Ducousso, J. Le Sommer, J.-M. Molines, M. Bell

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Ducousso N, Le Sommer J, Molines J, et al. Ocean Modelling, 2017 Details

☒ Modelling sensitivities to mixing and advection in a sill-basin estuarine system

Soontiens N, Allen S Ocean Modelling, 2017 Details

☐ Design, analysis and verification of a volume-of-fluid model with interface-capturing scheme

Klaaij C, Hoekstra M, Vaz G Computers & Fluids, 2018 Details

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☐ Число

☐ Акроним

☐ Спонсор

☐ Текст о финансировании

☐ Фирменные наименования и  
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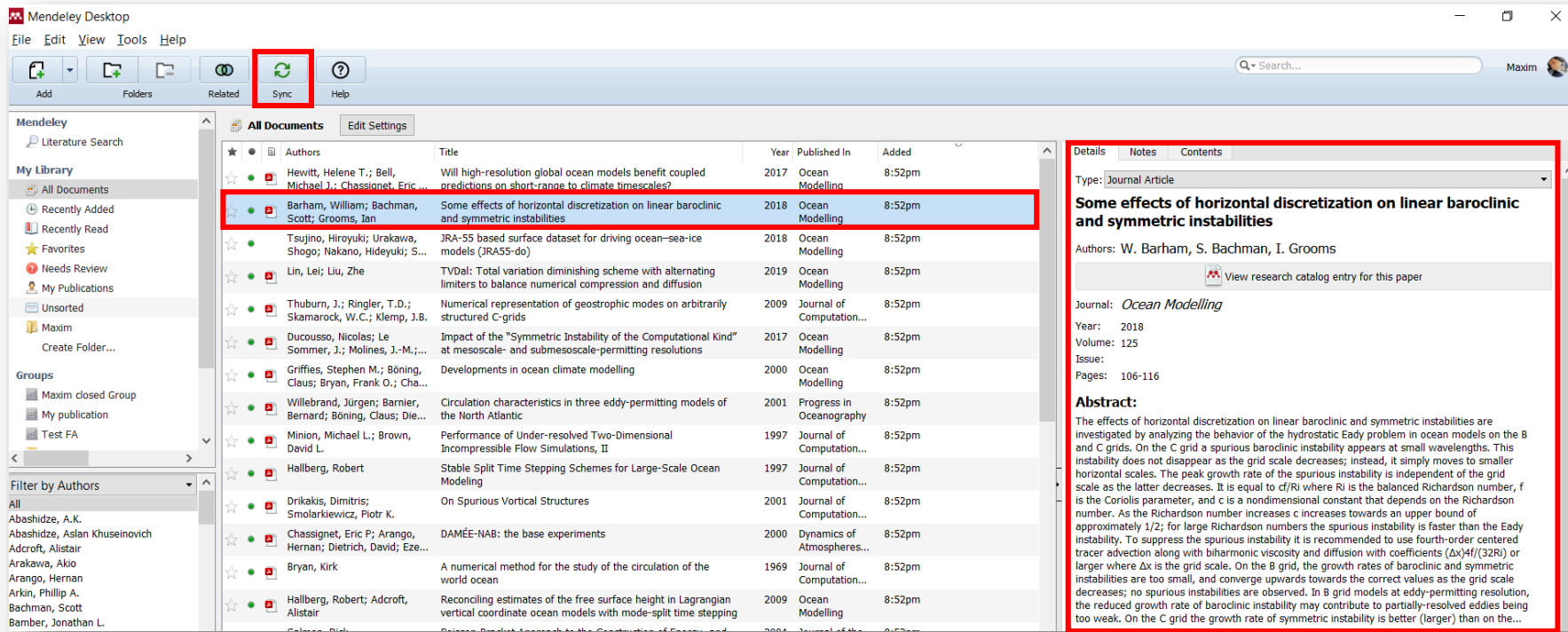
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| Authors                                      | Title                                                                                      | Year | Published In    | Added  |
|----------------------------------------------|--------------------------------------------------------------------------------------------|------|-----------------|--------|
| Barham, William; Bachman, Scott; Grooms, Ian | Some effects of horizontal discretization on linear baroclinic and symmetric instabilities | 2018 | Ocean Modelling | 8:52pm |

To the right of the document list, the 'Details' pane for the selected document is visible, also outlined with a red rectangle. It contains the following information:

- Type: Journal Article
- Some effects of horizontal discretization on linear baroclinic and symmetric instabilities**
- Authors: W. Barham, S. Bachman, I. Grooms
- Journal: *Ocean Modelling*
- Year: 2018
- Volume: 125
- Issue:
- Pages: 106-116
- Abstract:**  
The effects of horizontal discretization on linear baroclinic and symmetric instabilities are investigated by analyzing the behavior of the hydrostatic Eady problem in ocean models on the B and C grids. On the C grid a spurious baroclinic instability appears at small wavelengths. This instability does not disappear as the grid scale decreases; instead, it simply moves to smaller horizontal scales. The peak growth rate of the spurious instability is independent of the grid scale as the latter decreases. It is equal to  $c/Ri$  where  $Ri$  is the balanced Richardson number,  $f$  is the Coriolis parameter, and  $c$  is a nondimensional constant that depends on the Richardson number. As the Richardson number increases  $c$  increases towards an upper bound of approximately 1/2; for large Richardson numbers the spurious instability is faster than the Eady instability. To suppress the spurious instability it is recommended to use fourth-order centered tracer advection along with biharmonic viscosity and diffusion with coefficients  $(\Delta x)^4 f / (32 Ri)$  or larger where  $\Delta x$  is the grid scale. On the B grid, the growth rates of baroclinic and symmetric instabilities are too small, and converge upwards towards the correct values as the grid scale decreases; no spurious instabilities are observed. In B grid models at eddy-permitting resolution, the reduced growth rate of baroclinic instability may contribute to partially-resolved eddies being too weak. On the C grid the growth rate of symmetric instability is better (larger) than on the...



# Поиск сведений о документе

Details Notes

Type: Journal Article

**Cooperativity in protein folding: from lattice models with sidechains to real proteins.**

Authors: D. Klimov, D. Thirumalai

 View research catalog entry for this paper

Journal:

Year:

Volume:

Issue:

Pages:

**Abstract:**

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**lattice models with sidechains to real proteins.**

Authors: D. Klimov, D. Thirumalai

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Journal: *Folding & design*

Year: 1998

Volume: 3

Issue: 2

Pages: 127-39

**Abstract:**  
Over the past few years novel folding mechanisms of globular proteins have been proposed using minimal lattice and off-lattice models. The factors determining the cooperativity of folding in these models and especially their explicit relation to experiments have not been fully established, however.

**Tags:**

**Keywords:**  
Fibronectins; Fibronectins: chemistry; Guanidine; Guanidine: pharmacology; Hydrogen-Ion Concentration; Models; Molecular; Peptides; Peptides: chemistry; Plant Proteins; Protein Denaturation; Protein Folding; Proteins; Proteins: chemistry; Ribonucleases; Ribonucleases: che...

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| Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric ...    | Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?            | 2017 | Ocean Modelling            | 8:52pm |
| Barham, William; Bachman, Scott; Grooms, Ian                 | Some effects of horizontal discretization on linear baroclinic and symmetric instabilities                            | 2018 | Ocean Modelling            | 8:52pm |
| Tsujino, Hiroyuki; Urakawa, Shogo; Nakano, Hideyuki; S...    | JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do)                                              | 2018 | Ocean Modelling            | 8:52pm |
| Lin, Lei; Liu, Zhe                                           | TVDal: Total variation diminishing scheme with alternating limiters to balance numerical compression and diffusion    | 2019 | Ocean Modelling            | 8:52pm |
| Thuburn, J.; Ringler, T.D.; Skamarock, W.C.; Klemp, J.B.     | Numerical representation of geostrophic modes on arbitrarily structured C-grids                                       | 2009 | Journal of Computation...  | 8:52pm |
| Ducousso, Nicolas; Le Sommer, J.; Molines, J.-M.; ...        | Impact of the "Symmetric Instability of the Computational Kind" at mesoscale- and submesoscale-permitting resolutions | 2017 | Ocean Modelling            | 8:52pm |
| Griffies, Stephen M.; Böning, Claus; Bryan, Frank O.; Cha... | Developments in ocean climate modelling                                                                               | 2000 | Ocean Modelling            | 8:52pm |
| Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; Die...  | Circulation characteristics in three eddy-permitting models of the North Atlantic                                     | 2001 | Progress in Oceanography   | 8:52pm |
| Minion, Michael L.; Brown, David L.                          | Performance of Under-resolved Two-Dimensional Incompressible Flow Simulations, II                                     | 1997 | Journal of Computation...  | 8:52pm |
| Hallberg, Robert                                             | Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling                                                     | 1997 | Journal of Computation...  | 8:52pm |
| Drikakis, Dimitris; Smolarkiewicz, Piotr K.                  | On Spurious Vortical Structures                                                                                       | 2001 | Journal of Computation...  | 8:52pm |
| Chassignet, Eric P; Arango, Hernan; Dietrich, David; Eze...  | DAMÉE-NAB: the base experiments                                                                                       | 2000 | Dynamics of Atmospheres... | 8:52pm |

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Ocean Modelling 120 (2017) 120–136

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Review

**Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?**

Helene T. Hewitt<sup>a,\*</sup>, Michael J. Bell<sup>a</sup>, Eric P. Chassignet<sup>b</sup>, Arnaud Czaja<sup>c</sup>, David Ferreira<sup>d</sup>, Stephen M. Griffies<sup>e</sup>, Pat Hyder<sup>a</sup>, Julie L. McClean<sup>f</sup>, Adrian L. New<sup>g</sup>, Malcolm J. Roberts<sup>a</sup>

<sup>a</sup> Met Office, Fitzroy Road, Exeter, UK  
<sup>b</sup> Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University, Tallahassee  
<sup>c</sup> Imperial College London, Department of Physics, Space & Atmospheric Physics Group, London, UK  
<sup>d</sup> Department of Meteorology, University of Reading, Reading, UK  
<sup>e</sup> NOAA/Geophysical Fluid Dynamics Laboratory, Princeton, USA  
<sup>f</sup> Scripps Institute of Oceanography, University of California, San Diego, La Jolla, California, USA  
<sup>g</sup> National Oceanography Centre, Southampton, UK

**ARTICLE INFO**

Keywords:  
Resolution  
Parameterisation

**ABSTRACT**

As the importance of the ocean in the weather and climate system is increasingly recognised, operational systems are now moving towards coupled prediction not only for seasonal to climate timescales but also for short-range forecasts. A three-way tension exists between the allocation of computing resources to refine model resolution, and the increase of ensemble size. Here we review evidence for the benefits of increased ocean resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questions.

**Abstract:**

As the importance of the ocean in the weather and climate system is increasingly recognised, operational systems are now moving towards coupled prediction not only for seasonal to climate timescales but also for short-range forecasts. A three-way tension exists between the allocation of computing resources to refine model resolution, the expansion of model complexity/capability, and the increase of ensemble size. Here we review evidence for the benefits of increased ocean resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questions.

**Tags:**

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Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?  
Helene T. Hewitt; MJ Bell; EP Chassignet... - 2017 - Ocean Modelling  
Abstract: ...atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean ...  
...models benefit coupled predictions on short-range to climate timescales? Helene ...

CHANNEL WAVES AS A TOOL OF APPLIED GEOPHYSICS IN COAL MINING  
Theodore C. Krey - 1963 - GEOPHYSICS  
Abstract: ...It is practically impossible to predict such faults from geophysical surveys on the ...

Developments in ocean climate modelling  
Stephen M. Griffies; C Böning; FO Bryan... - 2000 - Ocean Modelling  
Abstract: ...low frequency climate simulations and predictions. It is written primarily to an ...  
...low frequency climate simulations and predictions. It is written primarily to an ...

Some effects of horizontal discretization on linear baroclinic and symmetric instabilities  
William Bartham; S Bachman; I Grooms - 2018 - Ocean Modelling

Numerical representation of geostrophic modes on arbitrarily structured C-grids  
J. Thuburn; T Ringle; W Skamarock; J... - 2009 - Journal of Computational Physics

Circulation characteristics in three eddy-permitting models of the North Atlantic  
Jürgen Willebrand; B Barnier; C Böning... - 2001 - Progress in Oceanography

Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling  
Robert Hallberg - 1997 - Journal of Computational Physics

On Spurious Vortical Structures  
Dimitris Dritakis; PK Smolarkiewicz - 2001 - Journal of Computational Physics

DAMÉE-IAB: the base experiments  
Eric P Chassignet; H Arango; D Dietrich... - 2000 - Dynamics of Atmospheres and Oceans

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| ★ | ● | Authors                                                     | Title                                                                                                      | Year | Published In              | Added  |
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| ★ | ● | Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric ...   | Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales? | 2017 | Ocean Modelling           | 8:52pm |
| ☆ | ● | Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; Die... | Circulation characteristics in three eddy-permitting models of the North Atlantic                          | 2001 | Progress in Oceanography  | 8:52pm |
| ☆ | ● | Minion, Michael L.; Brown, David L.                         | Performance of Under-resolved Two-Dimensional Incompressible Flow Simulations, II                          | 1997 | Journal of Computation... | 8:52pm |
| ☆ | ● | Le Sommer, Julien; Penduff, Thierry; Theetten, Sébastie...  | How momentum advection schemes influence current-topography interactions at eddy permitting resolution     | 2009 | Ocean Modelling           | 8:51pm |

Details Notes Contents

Type: Journal Article

**Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?**

Authors: H. Hewitt, M. Bell, E. Chassignet et al.

[View research catalog entry for this paper](#)

Journal: *Ocean Modelling*

Year: 2017

Volume: 120

Issue:

Pages: 120-136

**Abstract:**

As the importance of the ocean in the weather and climate system is increasingly recognised, operational systems are now moving towards coupled prediction not only for seasonal to climate timescales but also for short-range forecasts. A three-way tension exists between the allocation of computing resources to refine model resolution, the expansion of model complexity/capability, and the increase of ensemble size. Here we review evidence for the benefits of increased ocean resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questi...

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**Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?**

Authors: H. Hewitt, M. Bell, E. Chassignet et al.

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er and climate system is increasingly recognised, is coupled prediction not only for seasonal to climate %. A three-way tension exists between the allocation lution, the expansion of model complexity/capability, review evidence for the benefits of increased ocean

resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questi...

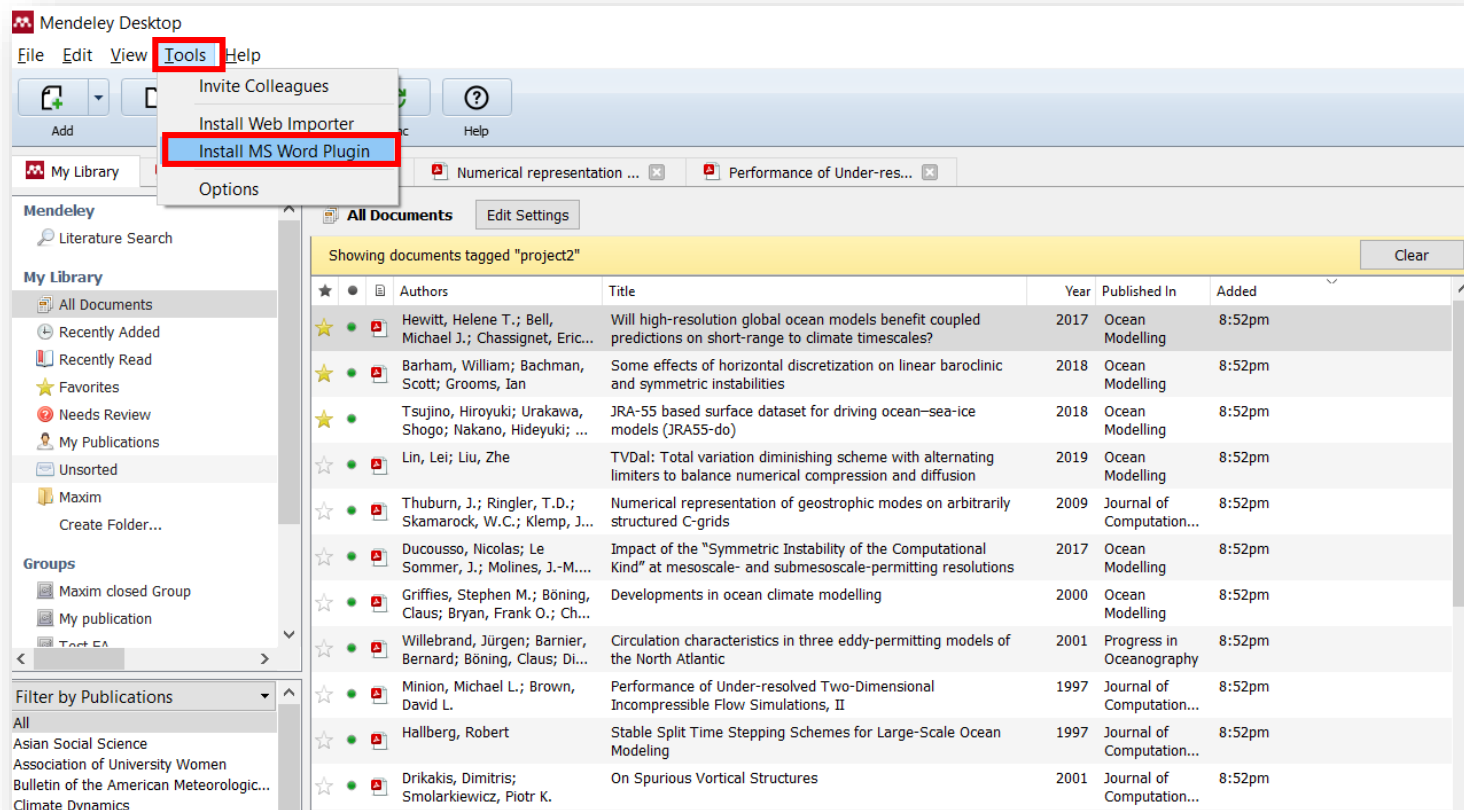
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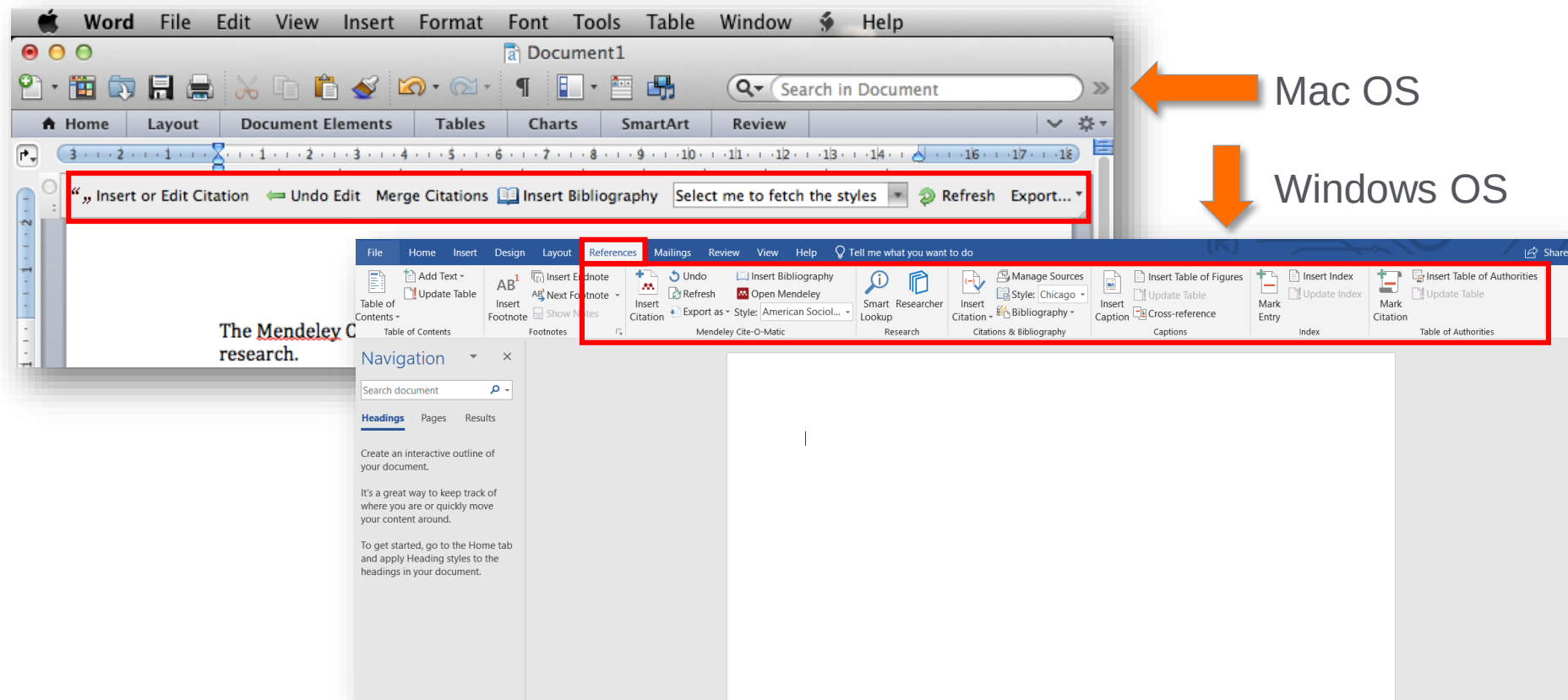
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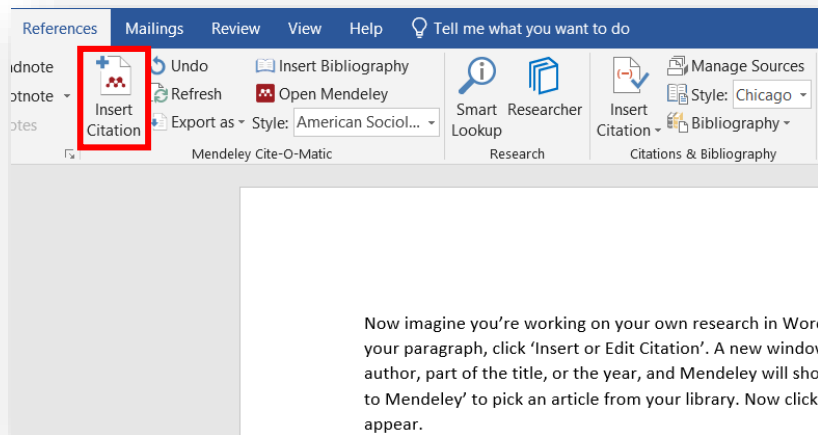


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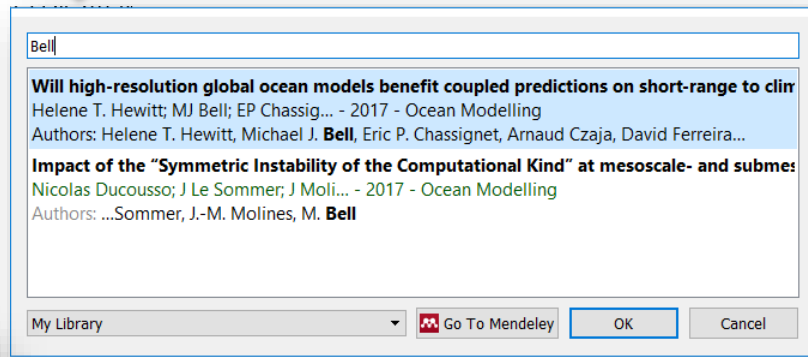
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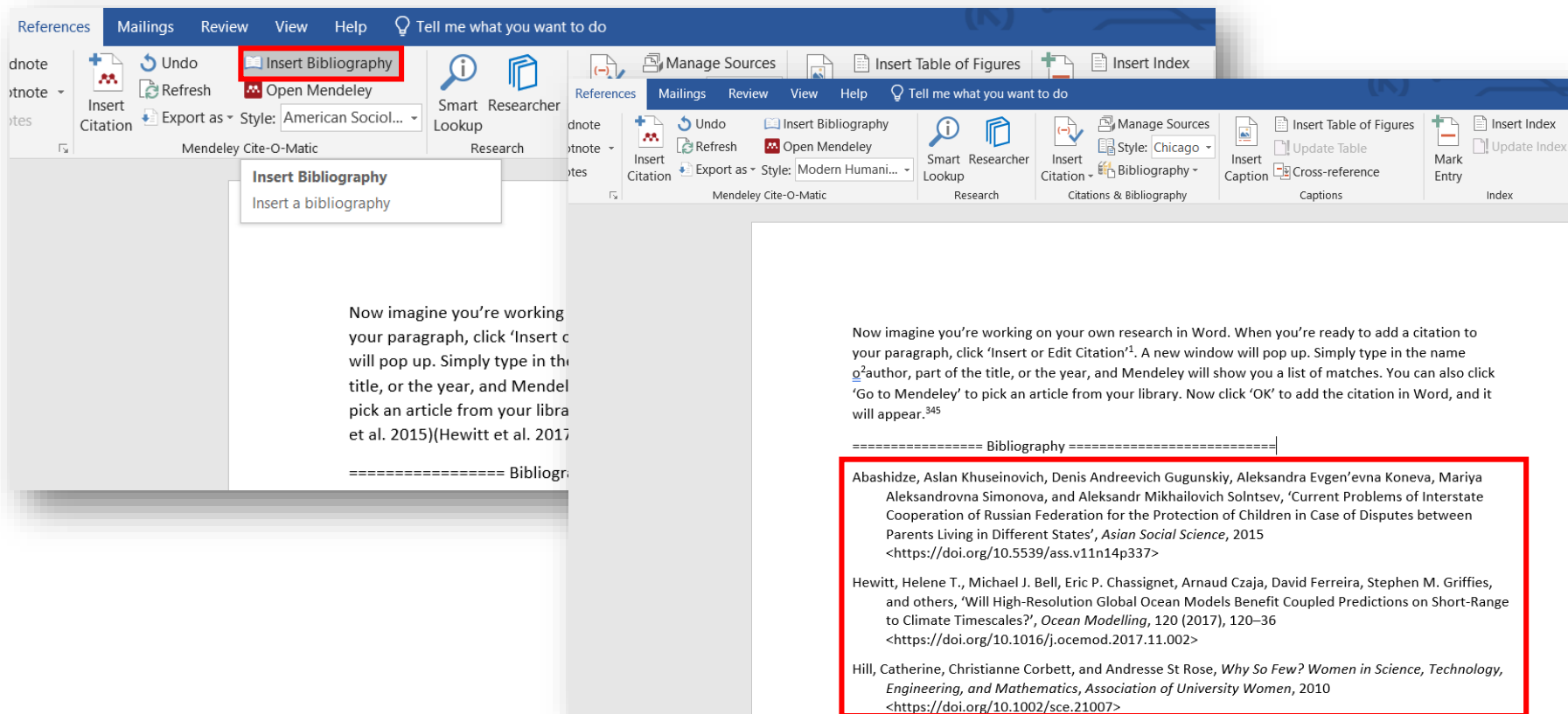
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<<https://doi.org/10.5539/ass.v11n14p337>>

Hewitt, Helene T., Michael J. Bell, Eric P. Chassignet, Arnaud Czaja, David Ferreira, Stephen M. Griffies, and others, 'Will High-Resolution Global Ocean Models Benefit Coupled Predictions on Short-Range to Climate Timescales?', *Ocean Modelling*, 120 (2017), 120–36  
<<https://doi.org/10.1016/j.ocemod.2017.11.002>>

Hill, Catherine, Christianne Corbett, and Andresse St Rose, *Why So Few? Women in Science, Technology, Engineering, and Mathematics, Association of University Women*, 2010  
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# Выбор стиля для ссылок и библиографии

The screenshot shows the Microsoft Word interface with the 'References' ribbon selected. The 'Style' dropdown menu is open, displaying a list of citation styles. A red box highlights the 'Style: Modern Humanities...' dropdown and the list of styles. The 'Citation Styles' dialog box is also open, showing a list of installed styles. A red box highlights the 'GOST' search results in the dialog box.

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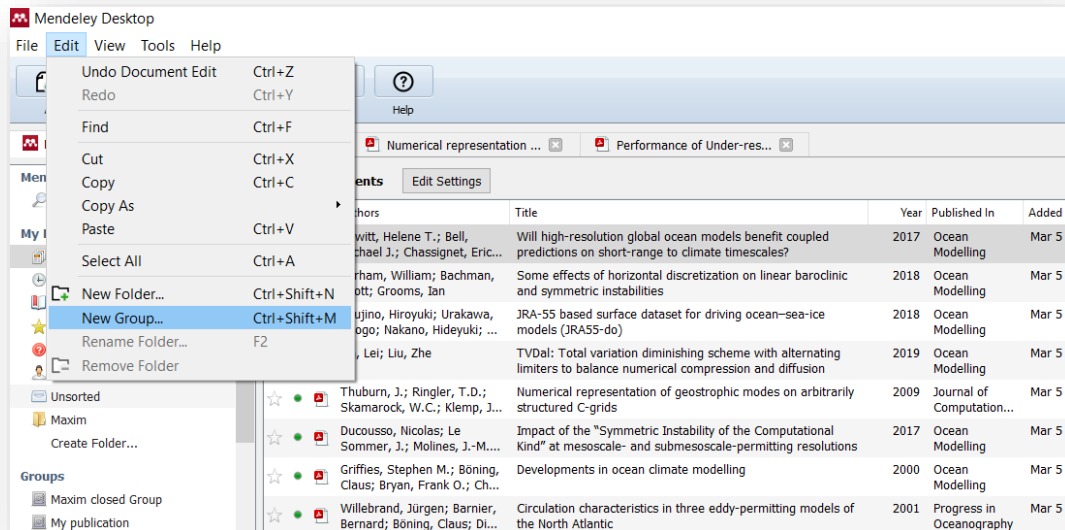
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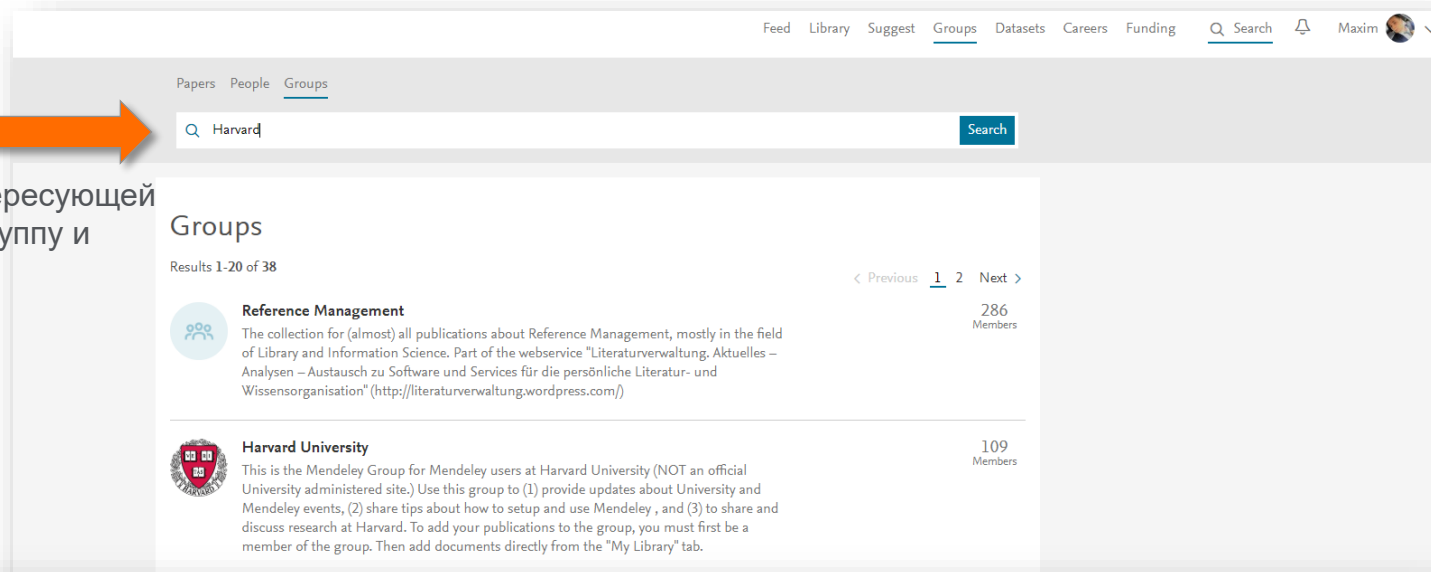
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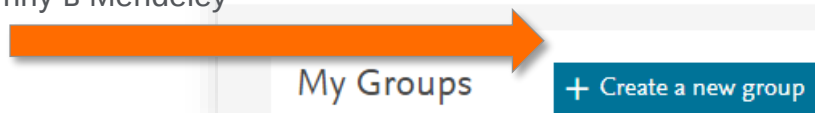
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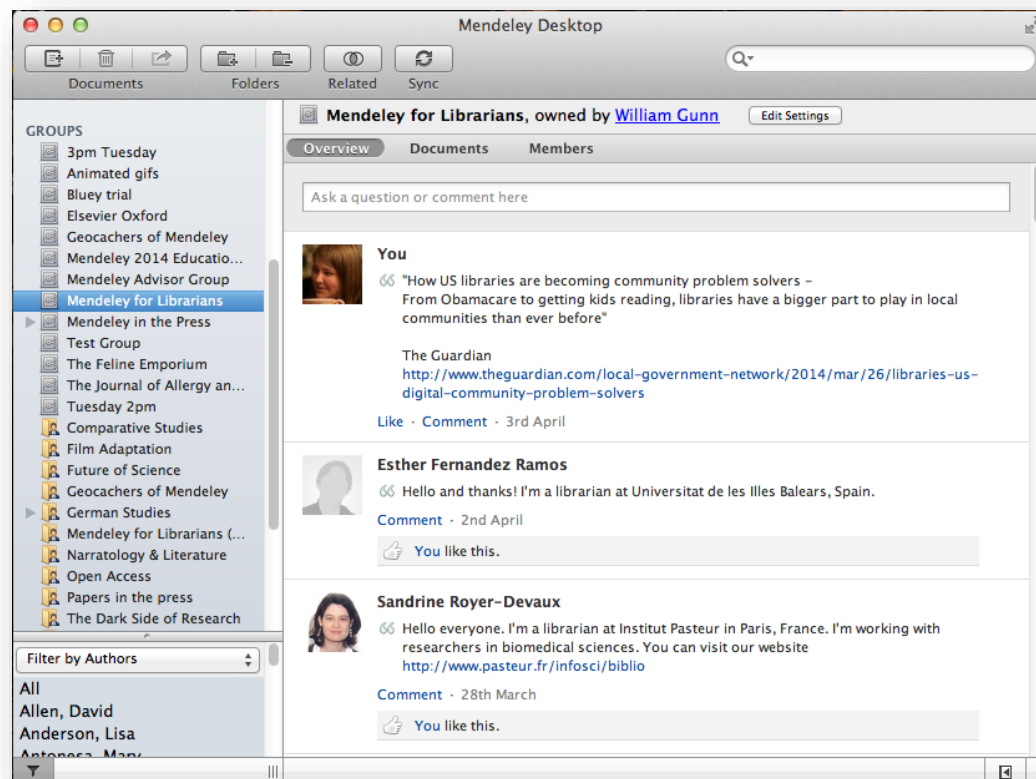


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# Отслеживание активности группы



# Взаимодействуйте с вашими коллегами

The screenshot shows the Mendeley Desktop application interface. The main window displays a PDF document titled "A game for smokers: A preliminary naturalistic trial in a psychiatric hospital" by Yasser Khazaal, Anne Chatton, Roberto Prezzemolo, Aliosca Hoch, Jacques Cornuz, and Daniele Zullino. The document is a short communication. The sidebar on the right shows a list of notes. The first note, dated 05/04/11 5:50 PM, contains the text "interesting separating parts of the abstract...". The second note, dated 06/04/11 5:46 PM, contains the text "feasibility of game toward behavior change...". An orange arrow points from the text on the right towards the second note in the sidebar.

Short communication

## A game for smokers: A preliminary naturalistic trial in a psychiatric hospital

Yasser Khazaal<sup>a,\*</sup>, Anne Chatton<sup>a</sup>, Roberto Prezzemolo<sup>a</sup>, Aliosca Hoch<sup>a</sup>, Jacques Cornuz<sup>b</sup>, Daniele Zullino<sup>a</sup>

<sup>a</sup> Division of Substance Abuse, University Hospitals of Geneva, Switzerland  
<sup>b</sup> Department of Ambulatory Care and Community Medicine, University Hospital, Lausanne, Switzerland

Received 5 June 2007; received in revised form 4 October 2007; accepted 8 October 2007

### Abstract

**Objective:** "Pick-Klop" is a game based on cognitive behavioral therapy. It aims to change smokers' attitudes towards tobacco addiction. This study tests the feasibility and the impact of one brief session of the intervention in a naturalistic setting within a psychiatric hospital.

**Method:** Fifty-one smokers were recruited during their stay in a psychiatric hospital with a prohibitive smoking policy. They were assessed pre- and post-treatment with visual analogue scales designed to evaluate their intention to stop smoking.

**Results:** All patients completed the intervention. The outcome shows that the intention to stop smoking becomes significantly stronger after the intervention.

**Conclusion:** This pilot study supports the feasibility and the effectiveness of the "Pick-Klop" game in a psychiatric hospital setting. The game seems to improve the intention to quit smoking. The data, however, should be confirmed by a controlled trial. Moreover, follow-up studies are needed to examine the potential impact of the game on smoking cessation attempts.

**Practical implications:** The game seems to be a useful and simple tool for education about smoking in a psychiatric hospital setting.

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**Keywords:** Smoking; Smoking cessation; Cognitive behavior therapy; Motivational interviewing; Psychiatric hospital; Prohibitive smoking policy

### 1. Introduction

Smoking is the first avoidable cause of morbidity and mortality [1]. Most smoking cessation attempts are made without any help [2].

Despite the efficacy of nicotine substitutes [3], bupropion [4] and some behavioral approaches [5], these treatments are used only by a minority of smokers [6,7]. This is probably due to the

sufficient to induce behavioral changes [9]. Positive attitudes towards giving up nicotine addiction, however, are linked to a greater willingness to stop smoking [10].

In the transtheoretical model of behavioral change, a re-evaluation of the advantages and disadvantages of nicotine addiction and cessation enable smokers to evolve within the motivational process [11].

The notion of "self-efficacy" [12] corresponds to the trust

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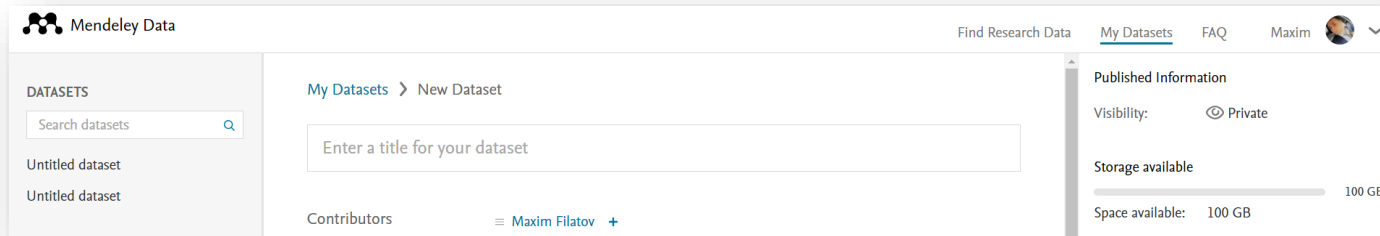
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