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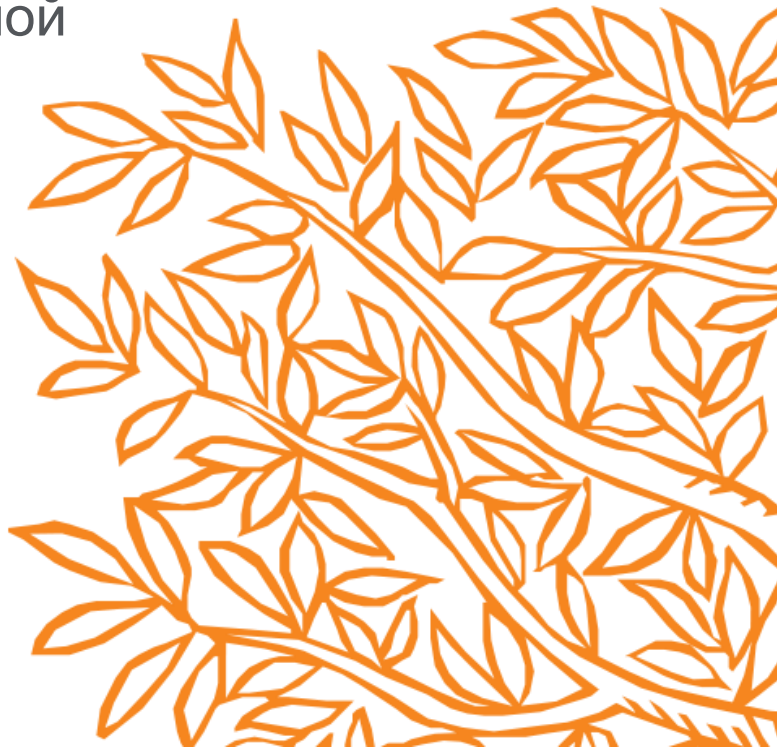
Создание и использование персональной научной библиотеки для эффективной подготовки публикационных заявок по современным стандартам с помощью платформы Mendeley

Московский государственный университет
им.М.В.Ломоносова

08.10.2019

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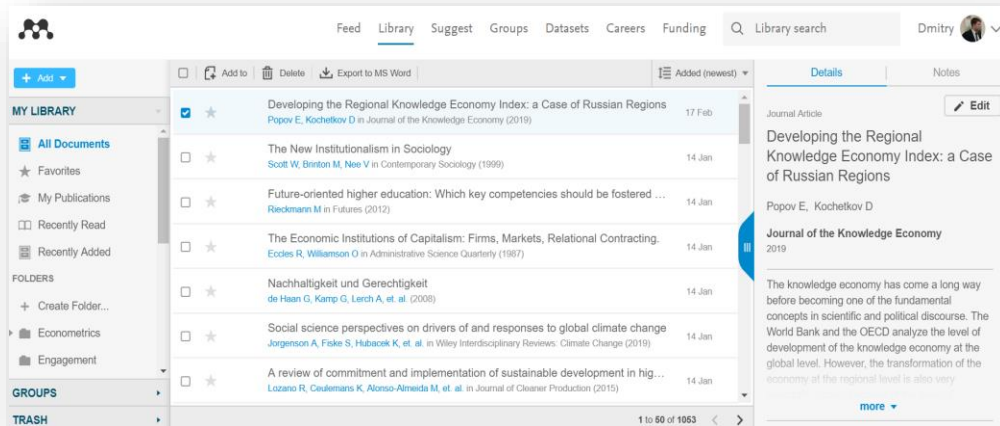


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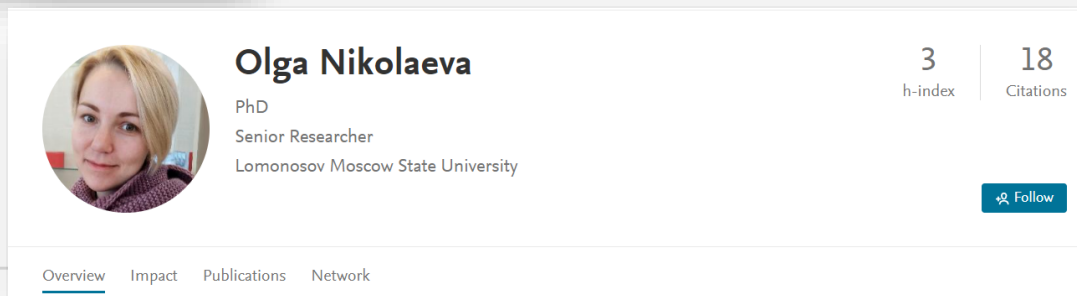


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Ocean Dynamics

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

^aLaboratoire des Écoulements Géophysiques et Industriels, Grenoble, France

^bLaboratoire d'Océanographie Dynamique et de Climatologie, Paris, France

^cLaboratoire de Physique des Océans, Ifremer Centre de Brest, Plouzané, France

^dDepartment of Physical Sciences, Division of Geophysics, University of Helsinki, Helsinki, Finland

^eIfM-GEOMAR, Leibniz-Institut für Meereswissenschaften, Universität Kiel, Kiel, Germany

^fMERCATOR-Ocean, Toulouse, France

^gShirshov Institut of Oceanography, Russian Academy of Science, Moscow, Russian Federation

^hFluid Dynamics Group, Los Alamos National Laboratory, Los Alamos, United States

ⁱScripps Institution of Oceanography, UCSD, San Diego, United States

^jNational 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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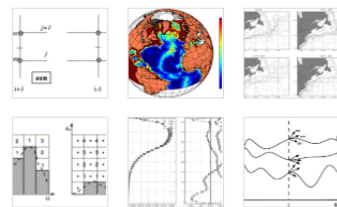
1. Introduction
2. On momentum advection schemes
3. Numerical configuration, simulations and methodology
4. Momentum advection schemes and vorticity dynamics
5. Impact of the regularity of the velocity field
6. Conclusion and discussion

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 ^a, Thierry Penduff ^a, Sébastien Theetten ^b, Gervan Madec ^c, Bernard Barnier ^a

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<https://doi.org/10.1016/j.ocemod.2008.11.007>

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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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Библиоменеджер (Reference management software) - это система, позволяющая исследователям, учёным и писателям создавать, организовывать в персональной библиотеке и повторно использовать библиографические ссылки.



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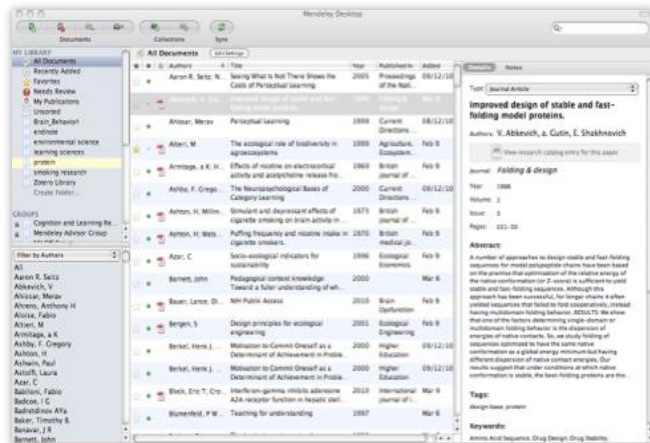
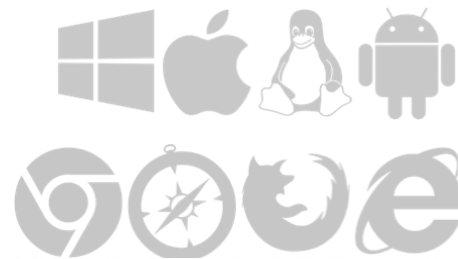
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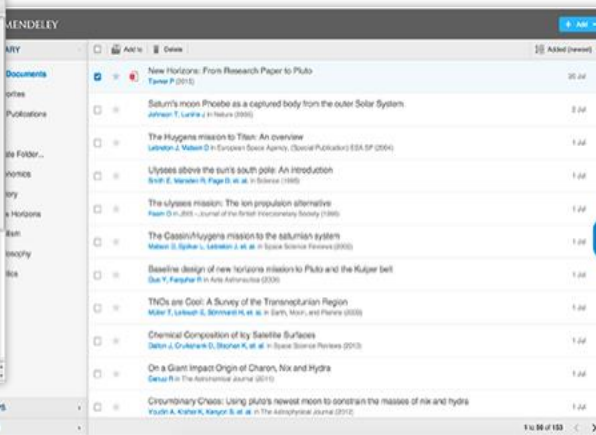
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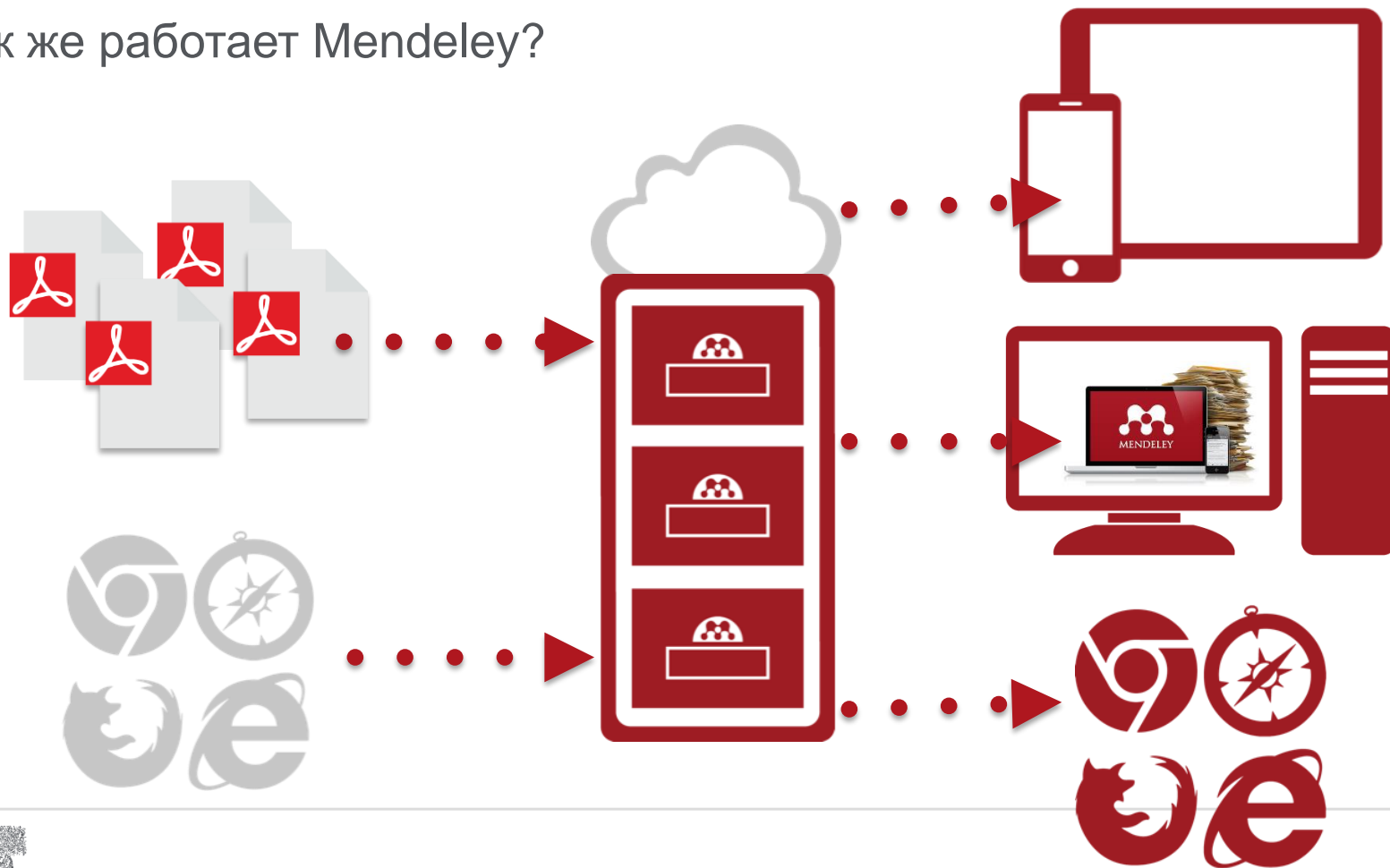
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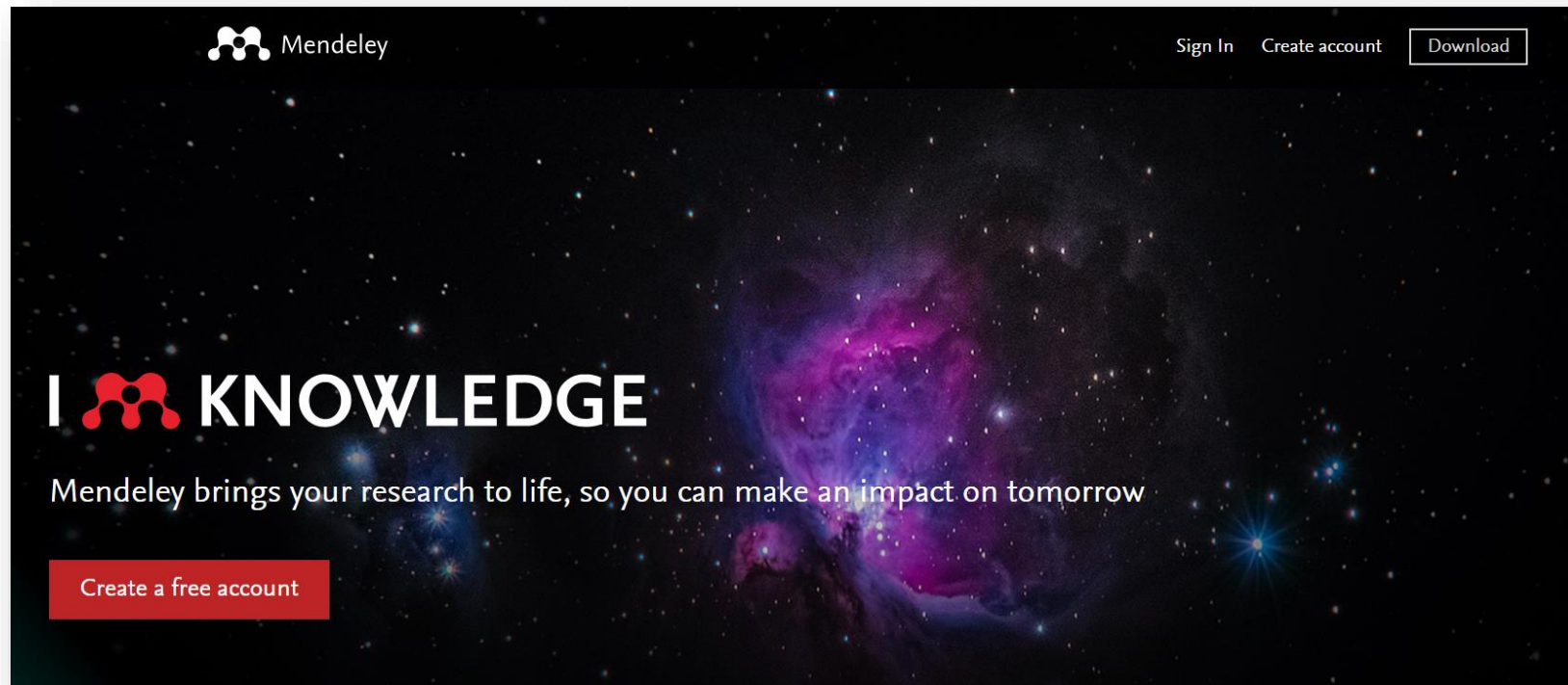
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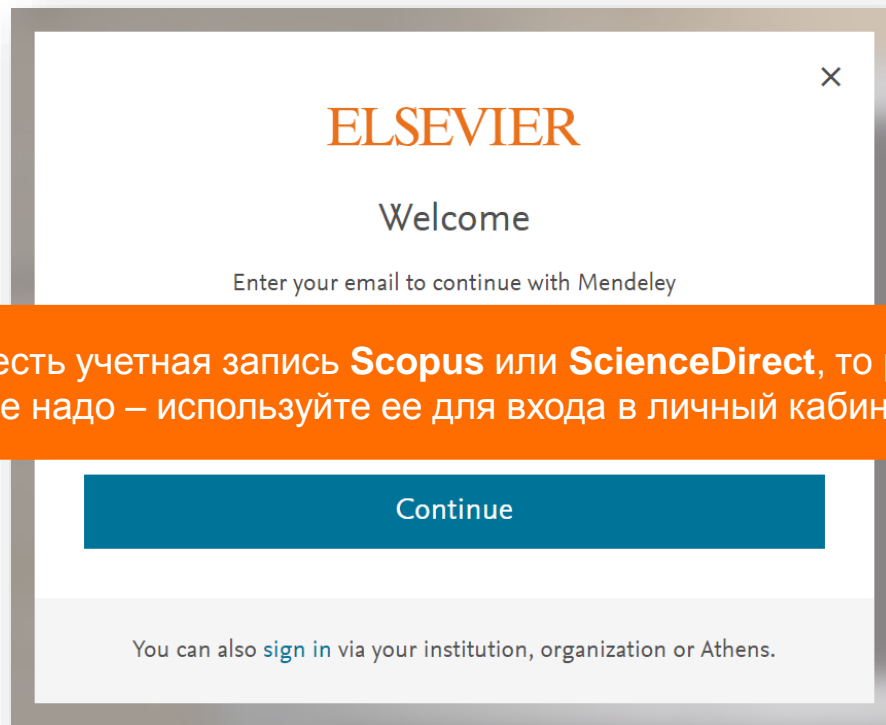


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Работа с библиотекой

The screenshot displays the Elsevier ResearcherID interface. At the top, a navigation bar includes links for Feed, Library, Suggest, Groups, Datasets, Careers, Funding, Search, and a user profile for 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 options like 'All posts', 'Citation updates', 'Article suggestions', and 'Recently published articles'. A 'GROUPS' section shows 'Maxim closed Group'. The main content area is titled 'Download' and 'Access your library on tablet and smartphone'. A 'Get Reference' button is visible. A 'MY LIBRARY' dropdown menu is open, showing options like 'All Documents', 'Favorites', 'My Publications', 'Recently Read', and 'Recently Added'. Below this, a 'FOLDERS' section shows 'Create Folder...' and 'Maxim'. The main list of documents includes titles like 'New engla nd journal', 'Test Article', 'RSCM technology for developing runtime-reconfigurable telecommunication applications', 'Why So Few? Women in Science, Technology, Engineering, and Mathematics', 'Effects of Small-Group Learning on Undergraduates in Science, Mathematics, Engineering, and Technology: A Meta-An...', 'SET for success: The supply of people with science , technology , engineering and mathematics skills', 'Asian social science.', 'Current problems of interstate cooperation of Russian federation for the protection of children in case of disputes between...', and 'Current issues of application of Hague Child Protection Convention of 1996 on National level'. Each entry includes a checkbox, a star icon, the title, authors, journal information, and a date.

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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

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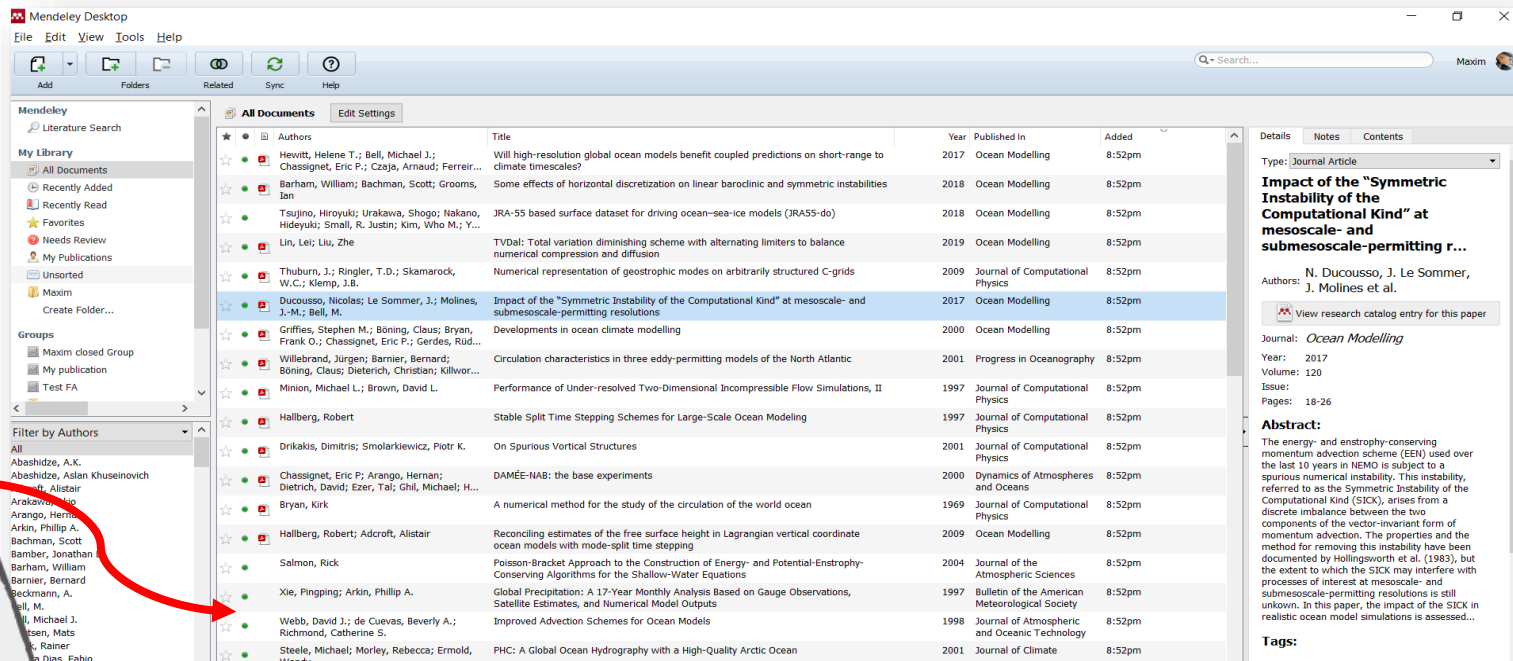
Abstract:

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. (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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☆	📄	Webb, David J.; de Cuevas, Beverly A.; Richmond, Catherine S.	Improved Advection Schemes for Ocean Models	1998	Journal of Atmospheric and Oceanic Technology	8:52pm
☆	📄	Steele, Michael; Morley, Rebecca; Ermold, Wendy	PHC: A Global Ocean Hydrography with a High-Quality Arctic Ocean	2001	Journal of Climate	8:52pm

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 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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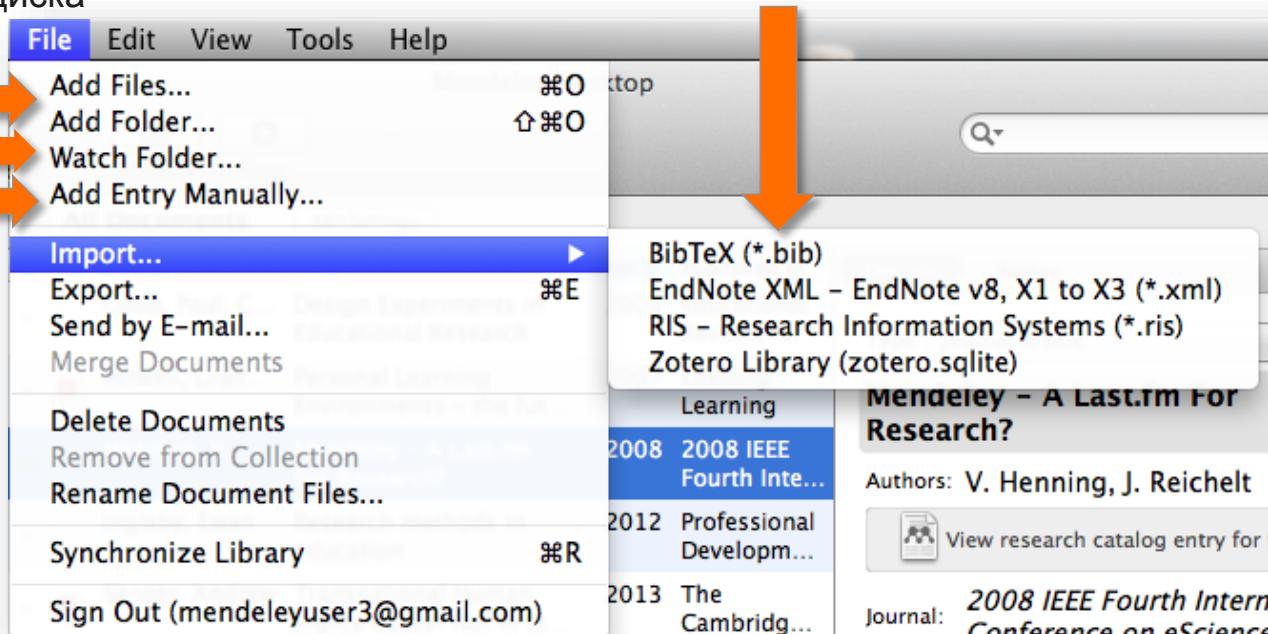
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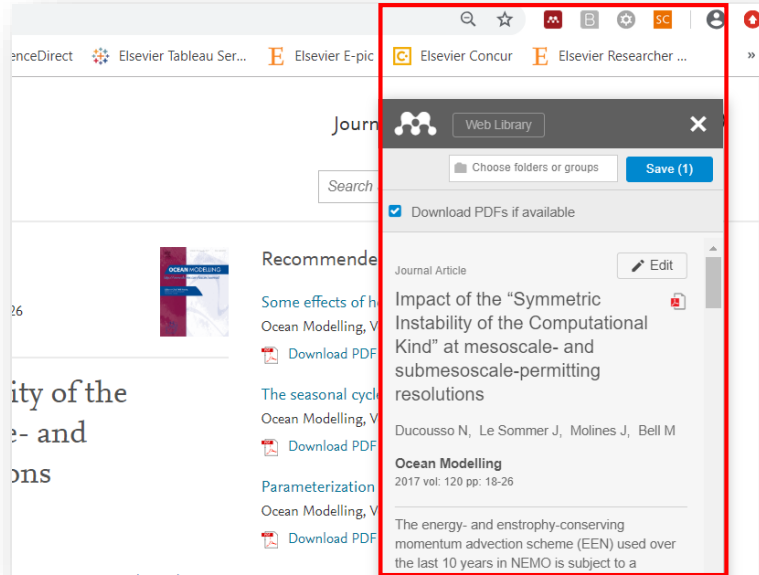


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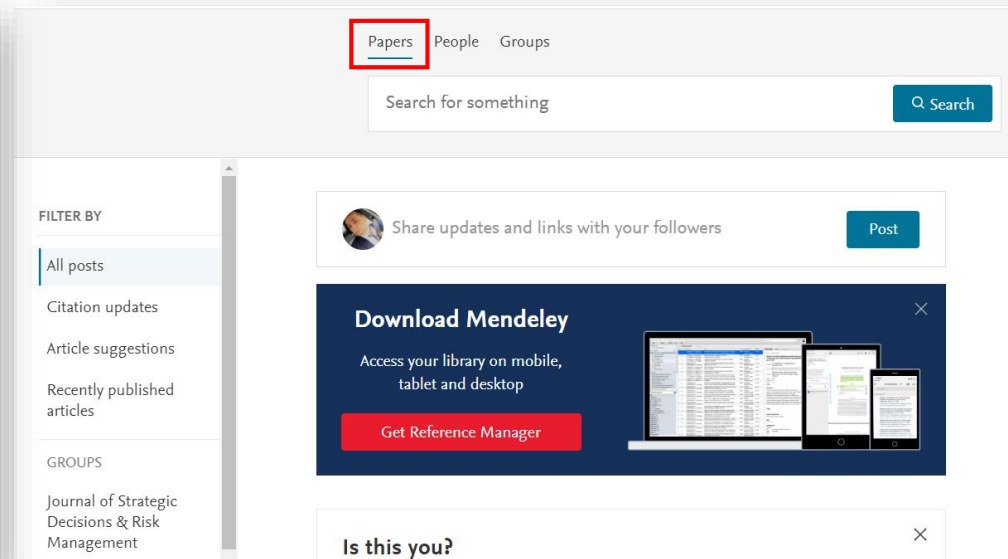
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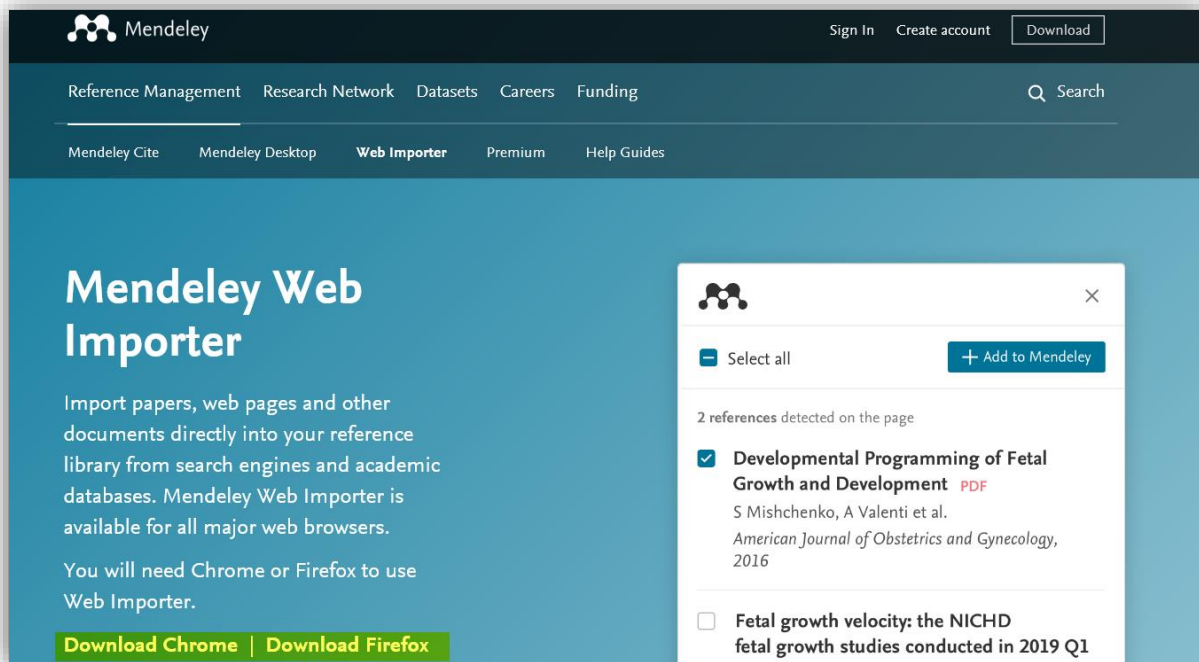


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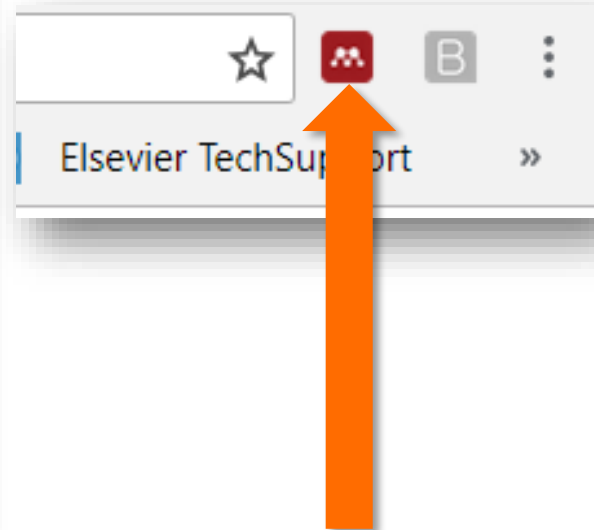
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Authors	Title	Year	Published In	Added
Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
Barham, William; Bachman, 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
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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
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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
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Bryan, Kirk	A numerical method for the study of the circulation of the world ocean	1969	Journal of Computation...	8:52pm
Hallberg, Robert; Adcroft, Alistair	Reconciling estimates of the free surface height in Lagrangian vertical coordinate ocean models with mode-split time stepping	2009	Ocean Modelling	8:52pm

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Type: Journal Article

Some effects of horizontal discretization on linear baroclinic and symmetric instabilities

Authors: W. Barham, S. Bachman, I. Grooms

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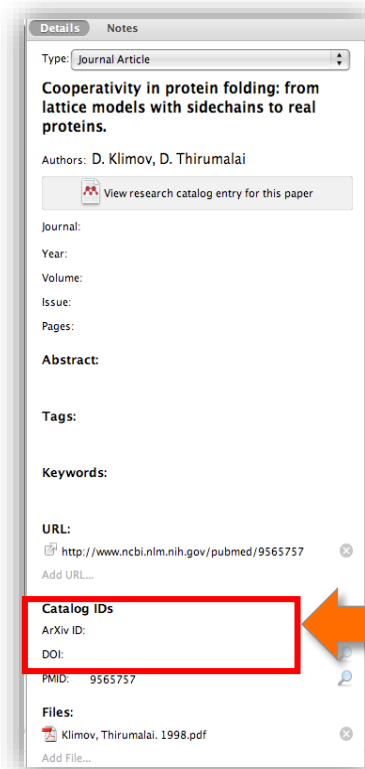
Journal: *Ocean Modelling*

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 Δx 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...

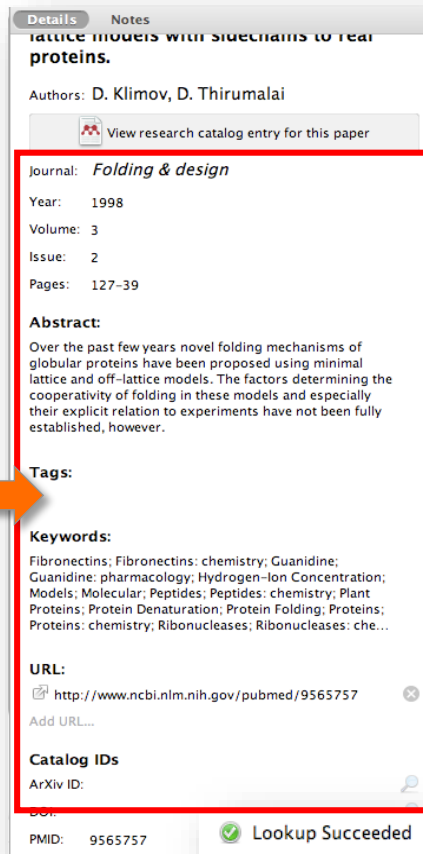


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Review

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

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

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^b Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University, Tallahassee, FL, USA
^c Imperial College London, Department of Physics, Space & Atmospheric Physics Group, London, UK
^d Department of Meteorology, University of Reading, Reading, UK
^e NOAA/Geophysical Fluid Dynamics Laboratory, Princeton, USA
^f Scripps Institution of Oceanography, University of California, San Diego, La Jolla, California, USA
^g 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, 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...

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

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Journal: *Ocean Modelling*

Year: 2017

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Abstract:

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All Documents Edit Settings

Showing documents tagged "project2"

★	📄	Authors	Title	Year	Published In	Added
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★	📄	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; ...	JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do)	2018	Ocean Modelling	8:52pm
★	📄	Lin, Lei; Liu, Zhe	TV-Dal: Total variation diminishing scheme with alternating	2019	Ocean	8:52pm
★	📄	Thuburn, J.; Ringle, T.; Skamarock, W.C.; Klemm, ...	Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling	1997	Journal of Computation...	8:52pm
★	📄	Ducousso, Nicolas; Le Sommer, J.; Molines, J.	On Spurious Vortical Structures	2001	Journal of Computation...	8:52pm
★	📄	Griffies, Stephen M.; Böning, Claus; Bryan, Frank O.; ...	DAMÉE-NAB: the base experiments	2000	Dynamics of Atmosphere...	8:52pm
★	📄	Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; ...	A numerical method for the study of the circulation of the world ocean	1969	Journal of Computation...	8:52pm
★	📄	Minion, Michael L.; Brown, David L.	Reconciling estimates of the free surface height in Lagrangian vertical coordinate ocean models with mode-split time step...	2009	Ocean Modelling	8:52pm
★	📄	Hallberg, Robert	Poisson-Bracket Approach to the Construction of Energy- and	2004	Journal of the	8:52pm

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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.

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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

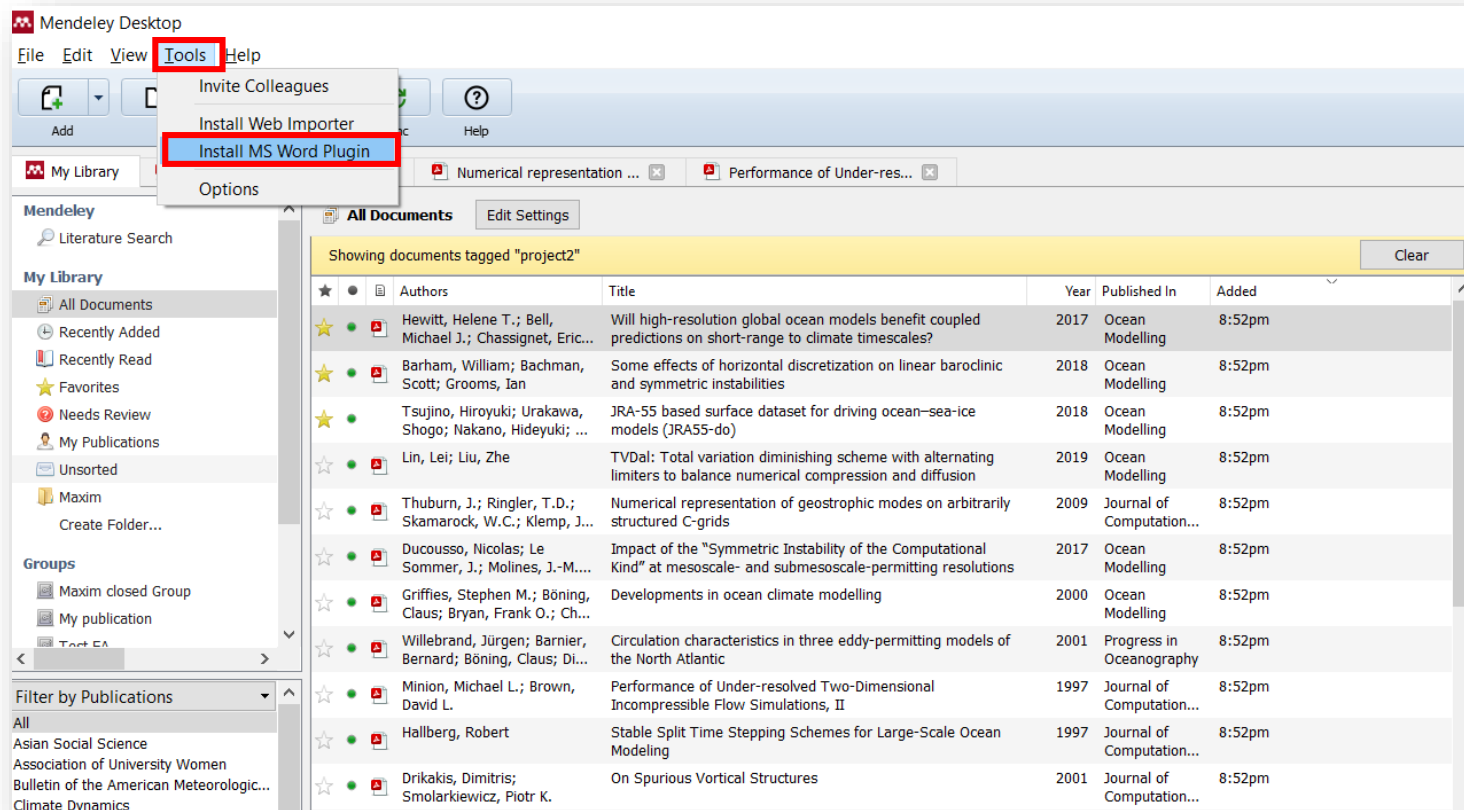
resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from 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...

Tags:

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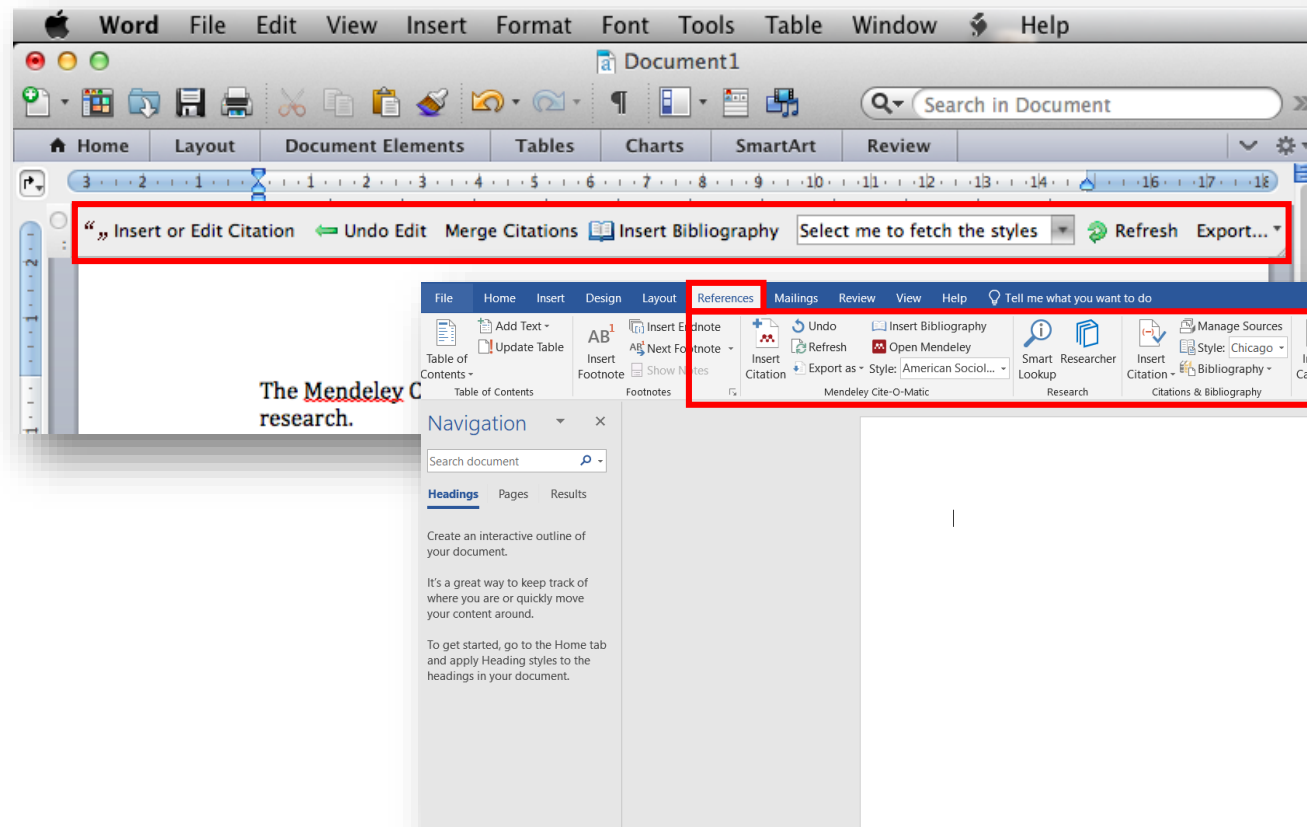


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★	●	Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
★	●	Barham, William; Bachman, Scott; Grooms, Ian	Some effects of horizontal discretization on linear baroclinic and symmetric instabilities	2018	Ocean Modelling	8:52pm
★	●	Tsujino, Hiroyuki; Urakawa, Shogo; Nakano, Hideyuki; ...	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...	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.; Ch...	Developments in ocean climate modelling	2000	Ocean Modelling	8:52pm
☆	●	Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; Di...	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

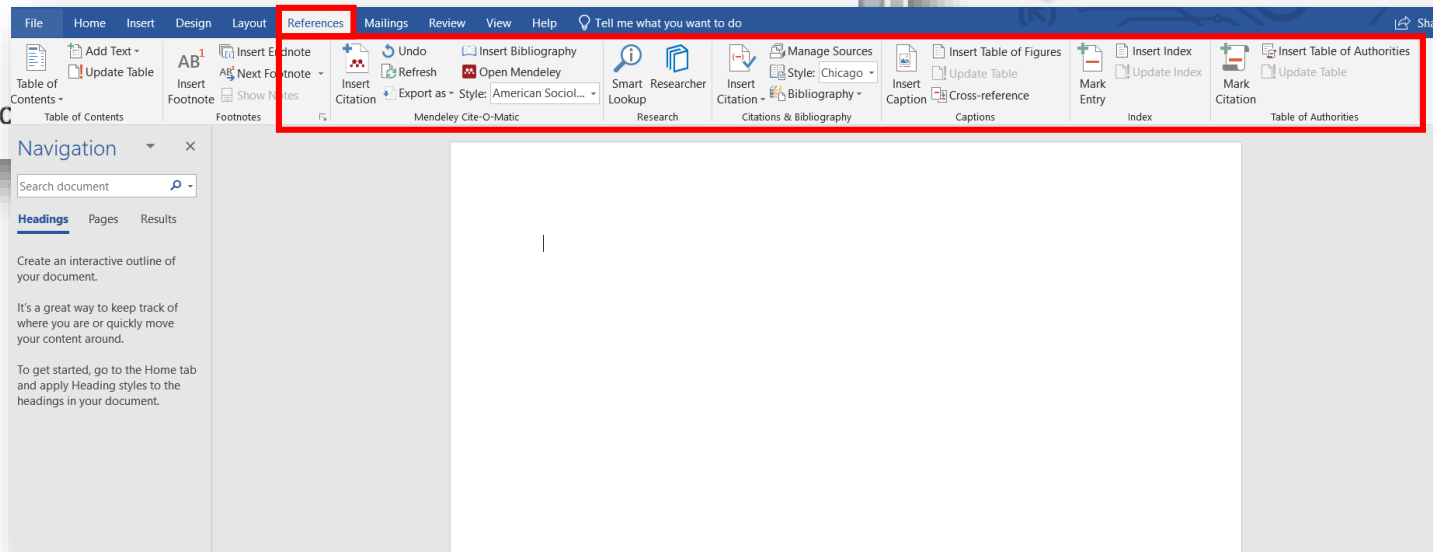


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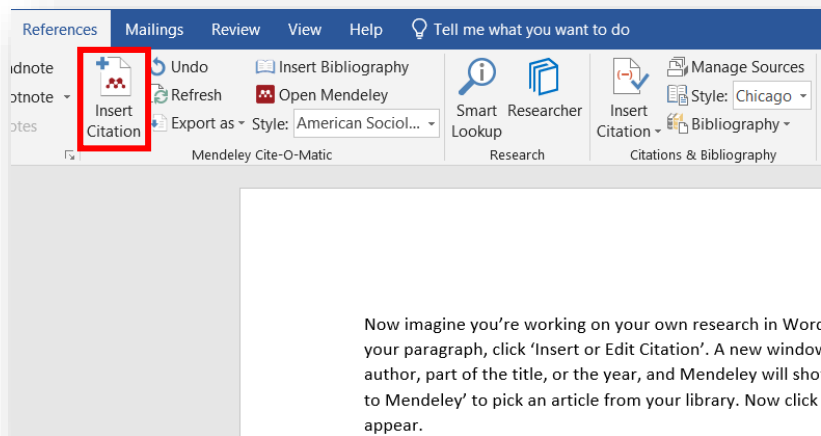
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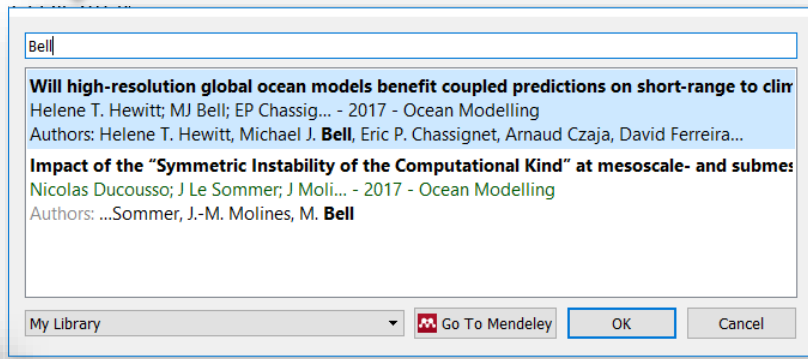
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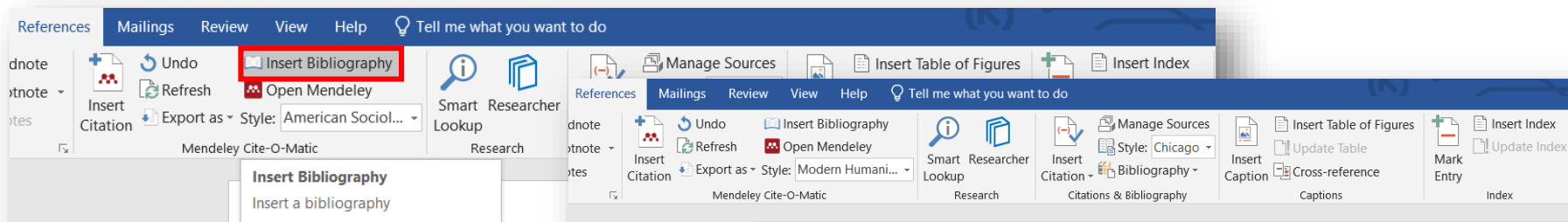
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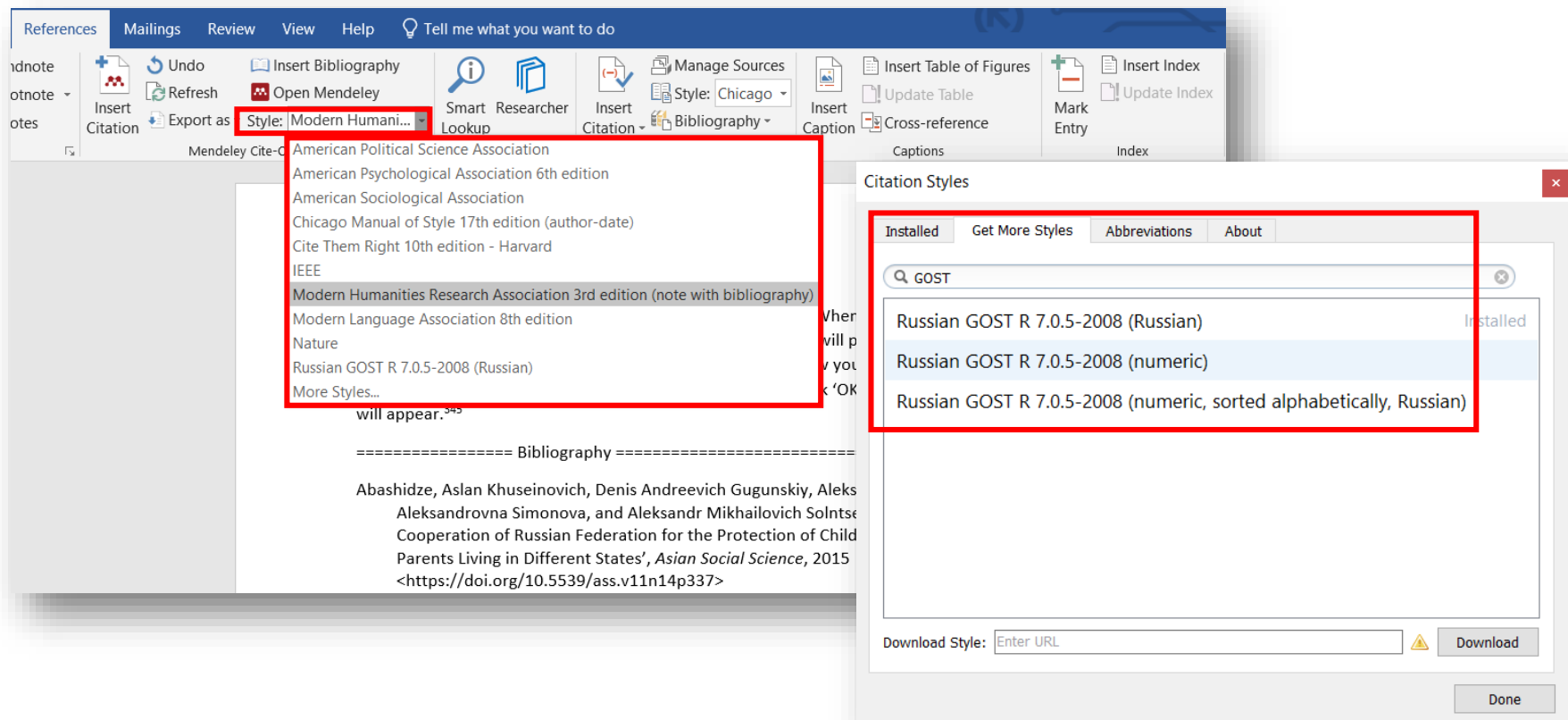
Abashidze, Aslan Khuseinovich, Denis Andreevich Gugunskiy, Aleksandra Evgen'evna Koneva, Mariya Aleksandrovna Simonova, and Aleksandr Mikhailovich Soltsev, 'Current Problems of Interstate Cooperation of Russian Federation for the Protection of Children in Case of Disputes between Parents Living in Different States', *Asian Social Science*, 2015
<<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
<<https://doi.org/10.1002/sce.21007>>



Выбор стиля для ссылок и библиографии



The screenshot shows the Microsoft Word interface with the References ribbon selected. The 'Style: Modern Humanities...' dropdown is highlighted in red. Below it, a list of citation styles is displayed, including American Political Science Association, American Psychological Association 6th edition, American Sociological Association, Chicago Manual of Style 17th edition (author-date), Cite Them Right 10th edition - Harvard, IEEE, Modern Humanities Research Association 3rd edition (note with bibliography), Modern Language Association 8th edition, Nature, Russian GOST R 7.0.5-2008 (Russian), and More Styles... The 'Citation Styles' dialog box is also highlighted in red, showing a list of styles including Russian GOST R 7.0.5-2008 (Russian), Russian GOST R 7.0.5-2008 (numeric), and Russian GOST R 7.0.5-2008 (numeric, sorted alphabetically, Russian).

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Nature
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More Styles...

will appear.³⁴⁵

===== Bibliography =====

Abashidze, Aslan Khuseinovich, Denis Andreevich Gugunskiy, Aleks Aleksandrovna Simonova, and Aleksandr Mikhailovich Solntse Cooperation of Russian Federation for the Protection of Child Parents Living in Different States', *Asian Social Science*, 2015 <<https://doi.org/10.5539/ass.v11n14p337>>

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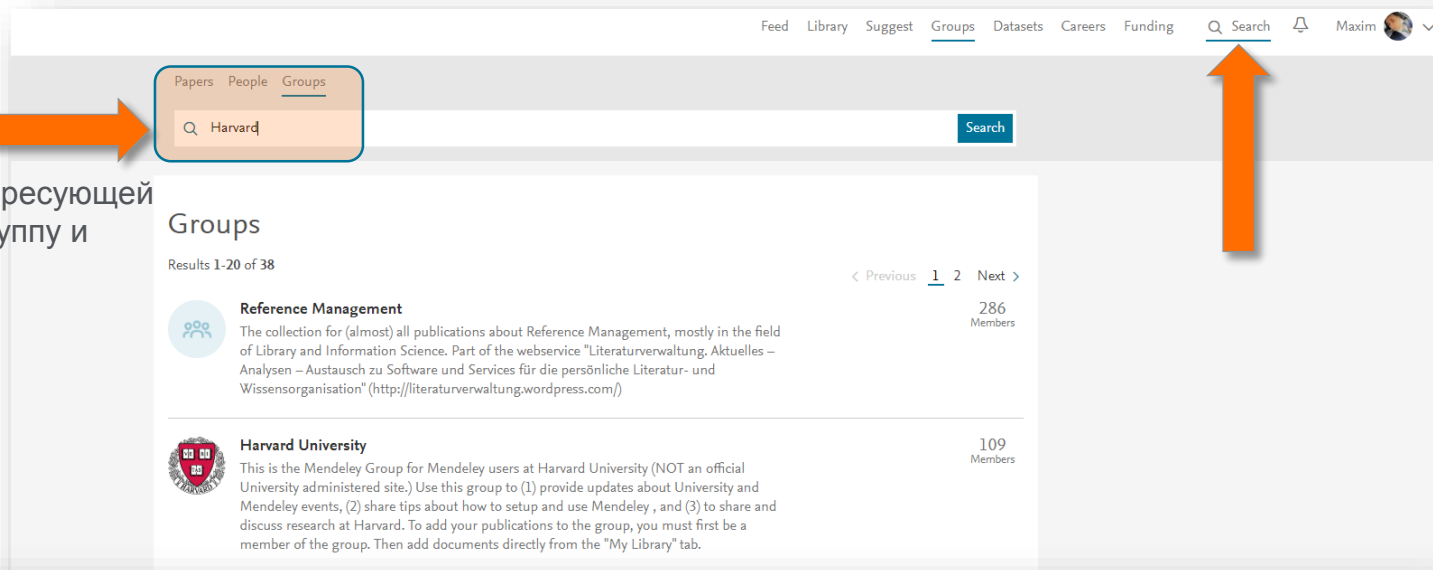


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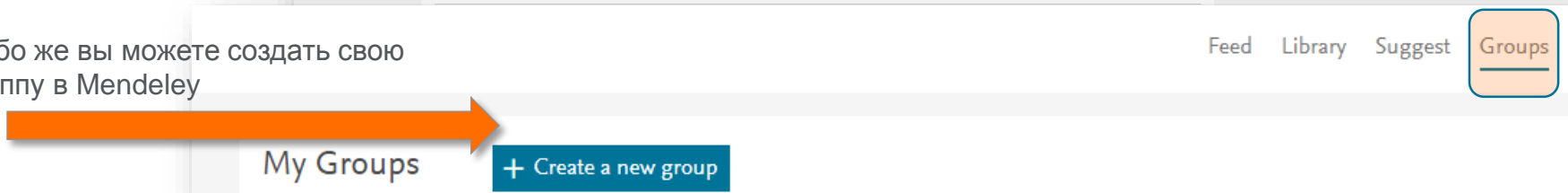
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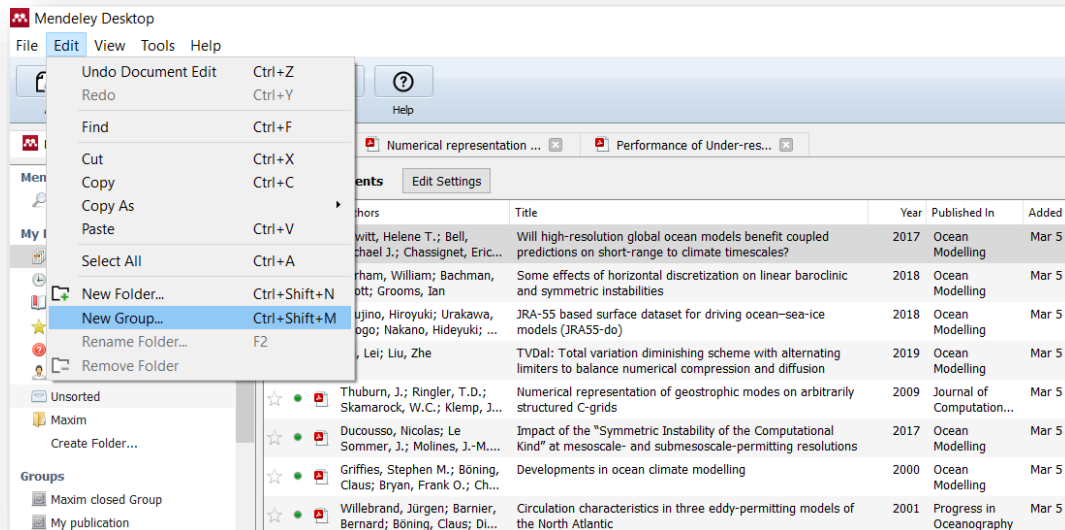
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The Guardian
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Esther Fernandez Ramos

Hello and thanks! I'm a librarian at Universitat de les Illes Balears, Spain.

Comment · 2nd April

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Sandrine Royer-Devaux

Hello everyone. I'm a librarian at Institut Pasteur in Paris, France. I'm working with researchers in biomedical sciences. You can visit our website
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Comment · 28th March

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Взаимодействуйте с вашими коллегами

The screenshot shows the Mendeley Desktop application interface. The main window displays a PDF of a research paper titled "A game for smokers: A preliminary naturalistic trial in a psychiatric hospital". The paper is by Yasser Khazaal, Anne Chatton, Roberto Prezzemolo, Aliosca Hoch, Jacques Cornuz, and Daniele Zullino. The sidebar on the right shows a list of notes related to the document. An orange arrow points from the text on the right towards the notes in the sidebar.

Short communication

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

Yasser Khazaal^{a,*}, Anne Chatton^a, Roberto Prezzemolo^a, Aliosca Hoch^a, Jacques Cornuz^b, Daniele Zullino^a

^a Division of Substance Abuse, University Hospitals of Geneva, Switzerland
^b 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

Details **Notes**

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06/04/11 5:46 PM
feasibility of game toward behavior change...

Page 1 of 4

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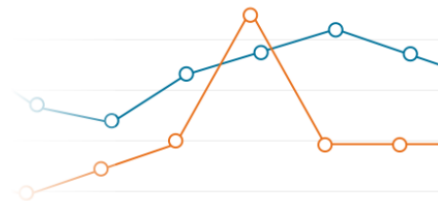
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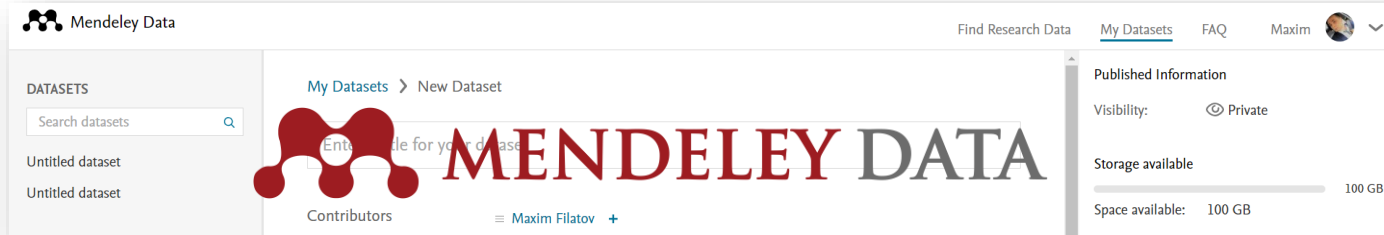
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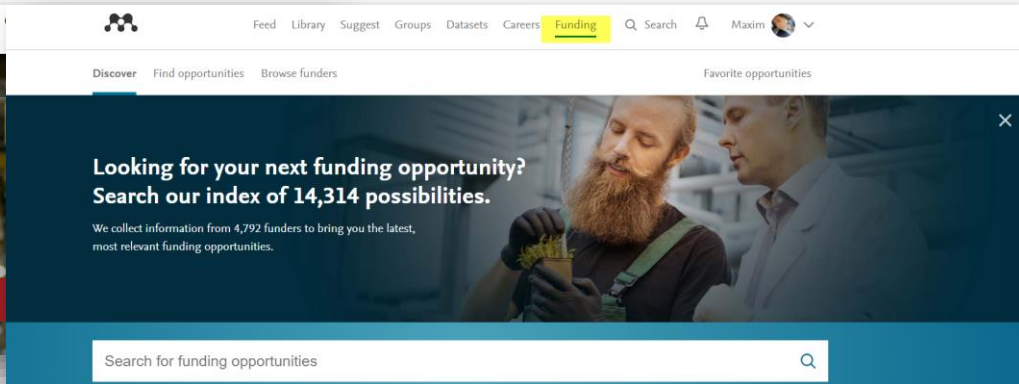
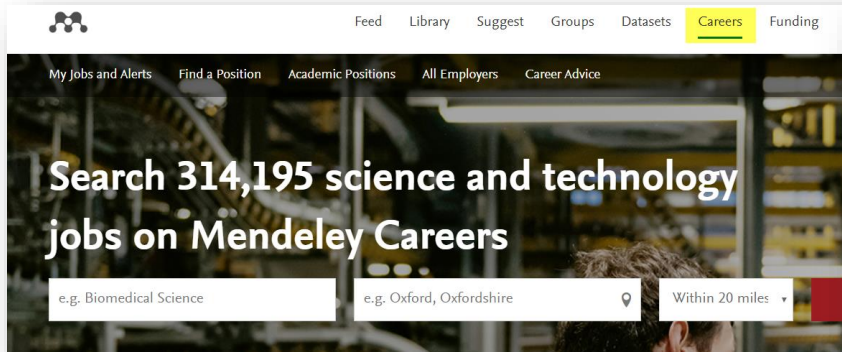
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