

Volume 38, Issue 2

January 2011

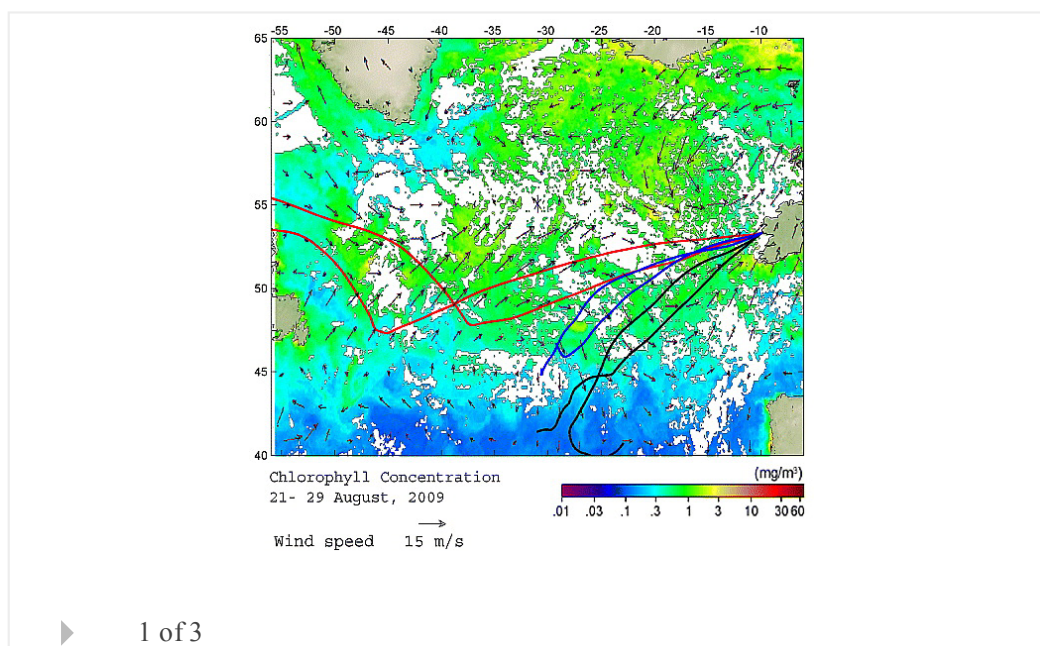
Brief Detailed

Atmospheric Science

Detecting high contributions of primary organic matter to marine aerosol: A case study

Jurgita Ovadnevaite, Colin O'Dowd, Manuel Dall'Osto, Darius Ceburnis, Douglas R. Worsnop, Harald Berresheim

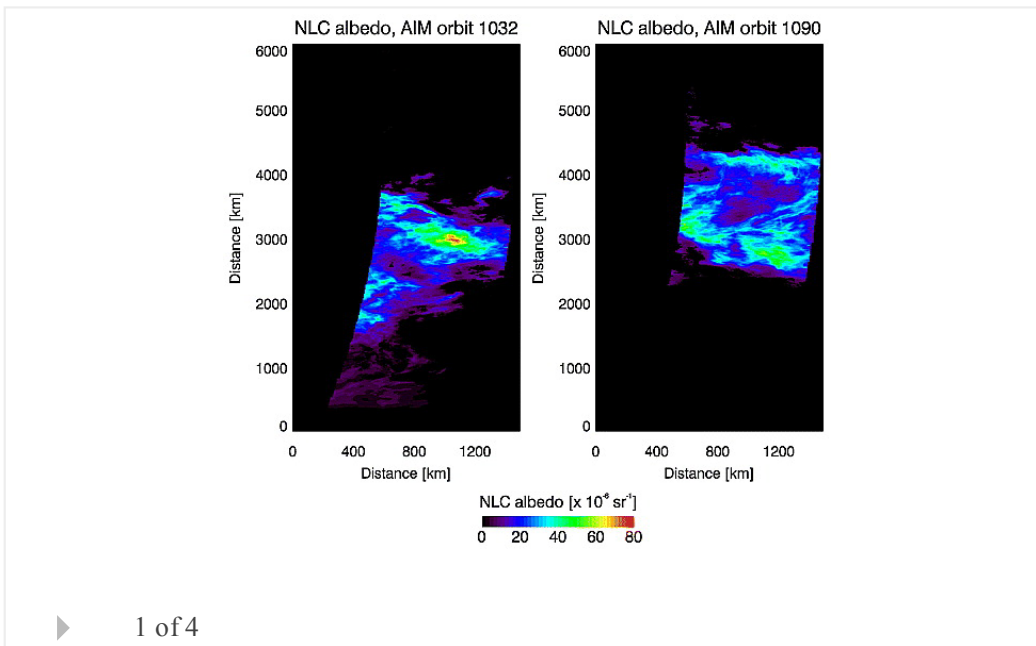
First Published: 29 January 2011 Vol: 38, L02807 | DOI: 10.1029/2010GL046083



First determination of the fractal perimeter dimension of noctilucent clouds

Christian von Savigny, Lena A. Brinkhoff, Scott M. Bailey, Cora E. Randall, James M. Russell III

First Published: 27 January 2011 Vol: 38, L02806 | DOI: 10.1029/2010GL045834



Correction to “El Niño and La Niña amplitude asymmetry caused by atmospheric feedbacks”

Claudia Frauen, Dietmar Dommenges

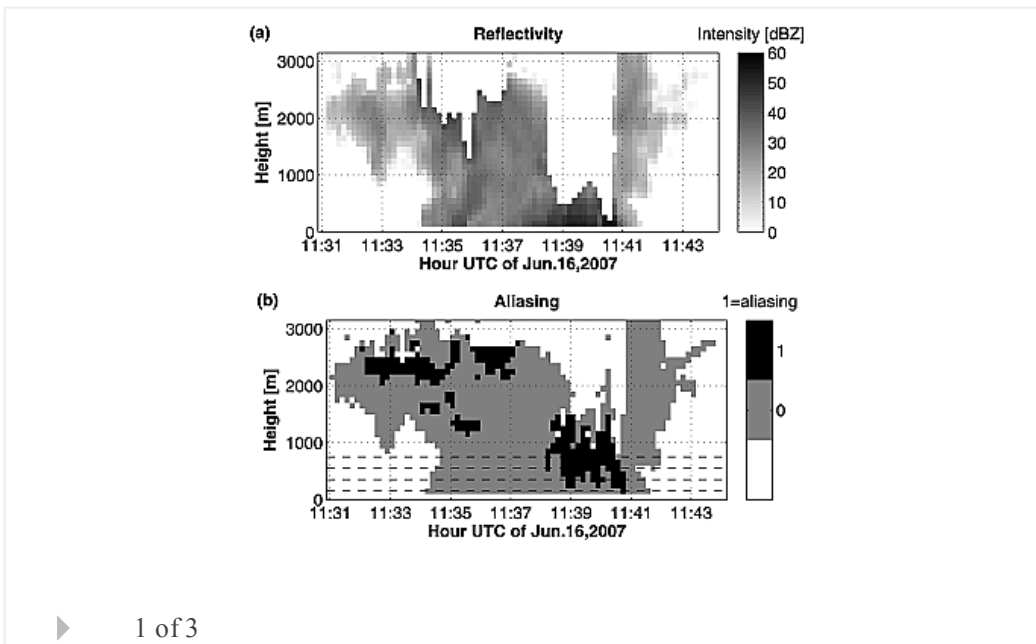
First Published: 26 January 2011 Vol: 38, L02805 | DOI: 10.1029/2010GL045541

Free

Aliasing in Micro Rain Radar data due to strong vertical winds

F. Tridon, J. Van Baelen, Y. Pointin

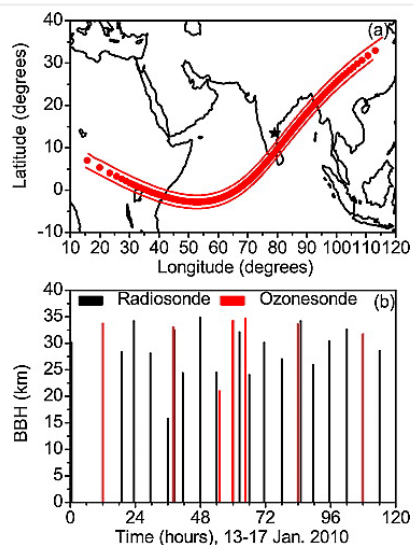
First Published: 25 January 2011 Vol: 38, L02804 | DOI: 10.1029/2010GL046018



Unusual enhancement in temperature and ozone vertical distribution in the lower stratosphere observed over Gadanki, India, following the 15 January 2010 annular eclipse

M. Venkat Ratnam, Ghose Basha, M. Roja Raman, Sanjay Kumar Mehta, B. V. Krishna Murthy, A. Jayaraman

First Published: 22 January 2011 Vol: 38, L02803 | DOI: 10.1029/2010GL045903

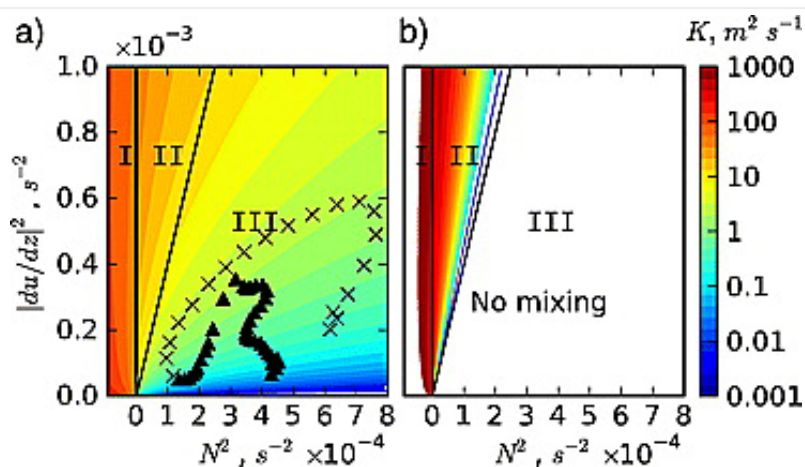


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Kelvin waves and shear-flow turbulent mixing in the TTL in (re-)analysis data

T. J. Flannaghan, S. Fueglistaler

First Published: 21 January 2011 Vol: 38, L02801 | DOI: 10.1029/2010GL045524

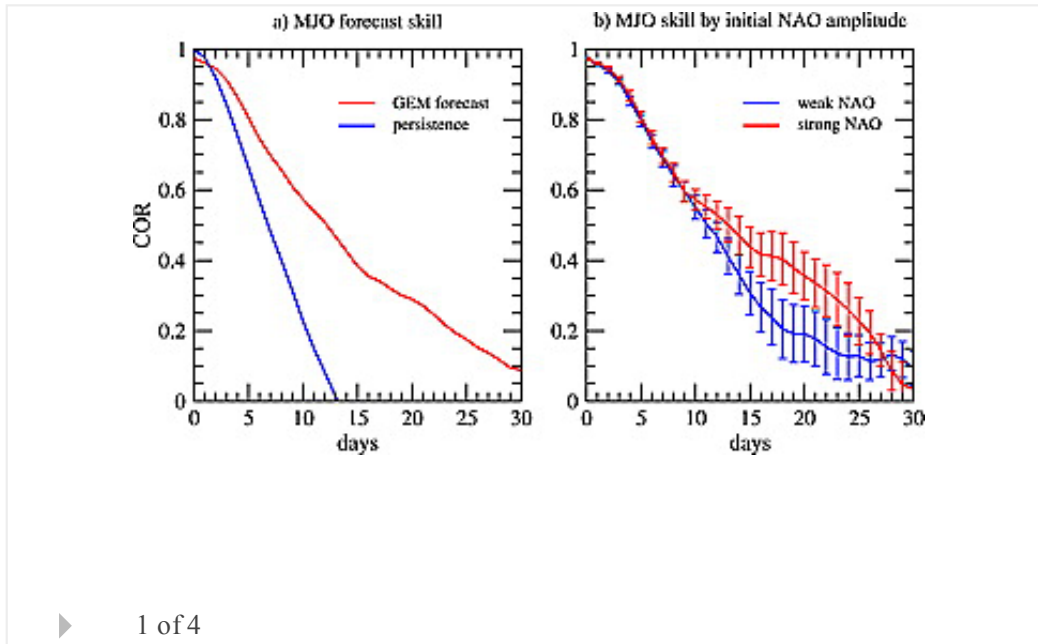


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Impact of the North Atlantic Oscillation on the forecast skill of the Madden-Julian Oscillation

Hai Lin, Gilbert Brunet

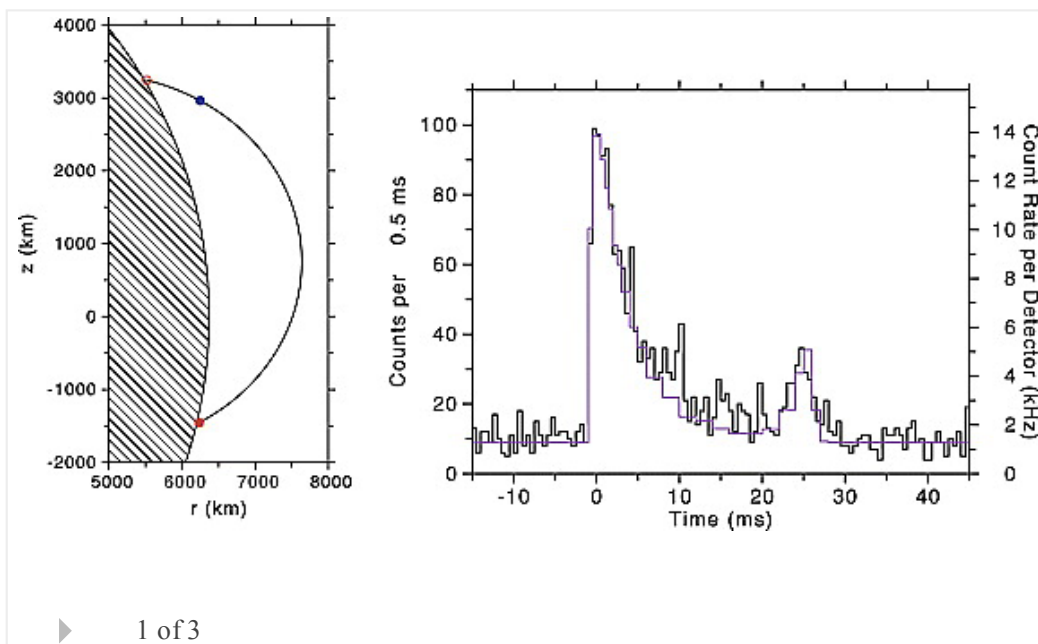
First Published: 21 January 2011 Vol: 38, L02802 | DOI: 10.1029/2010GL046131



Electron-positron beams from terrestrial lightning observed with Fermi GBM

Michael S. Briggs, Valerie Connaughton, Colleen Wilson-Hodge, Robert D. Preece, Gerald J. Fishman, R. Marc Kippen, P. N. Bhat, William S. Paciesas, Vandiver L. Chaplin, Charles A. Meegan, et al

First Published: 20 January 2011 Vol: 38, L02808 | DOI: 10.1029/2010GL046259

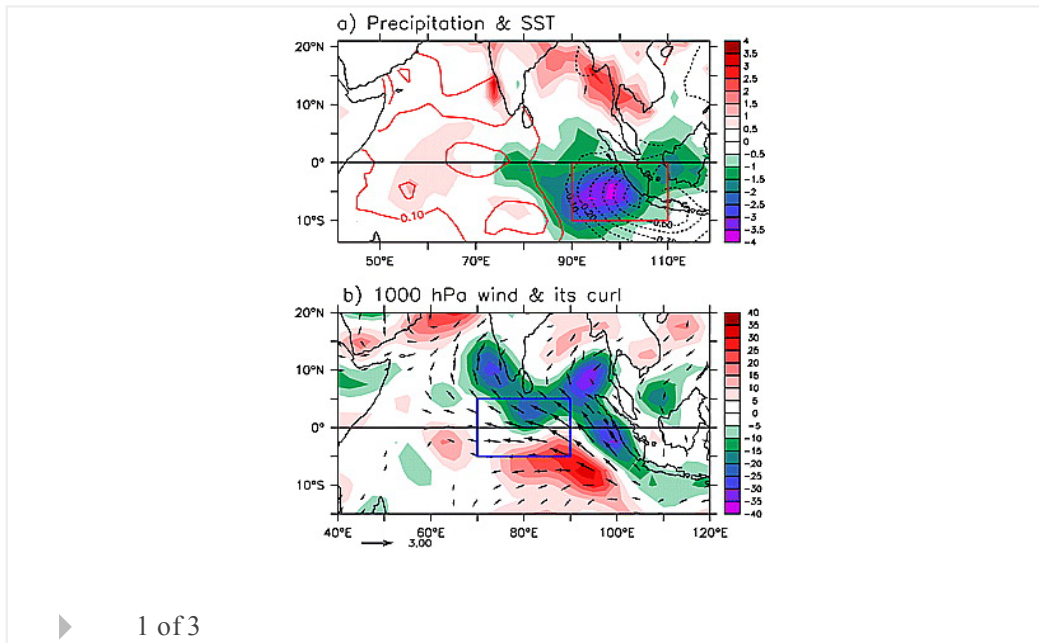


Climate

The critical role of the boreal summer mean state in the development of the IOD

Baoqiang Xiang, Weidong Yu, Tim Li, Bin Wang

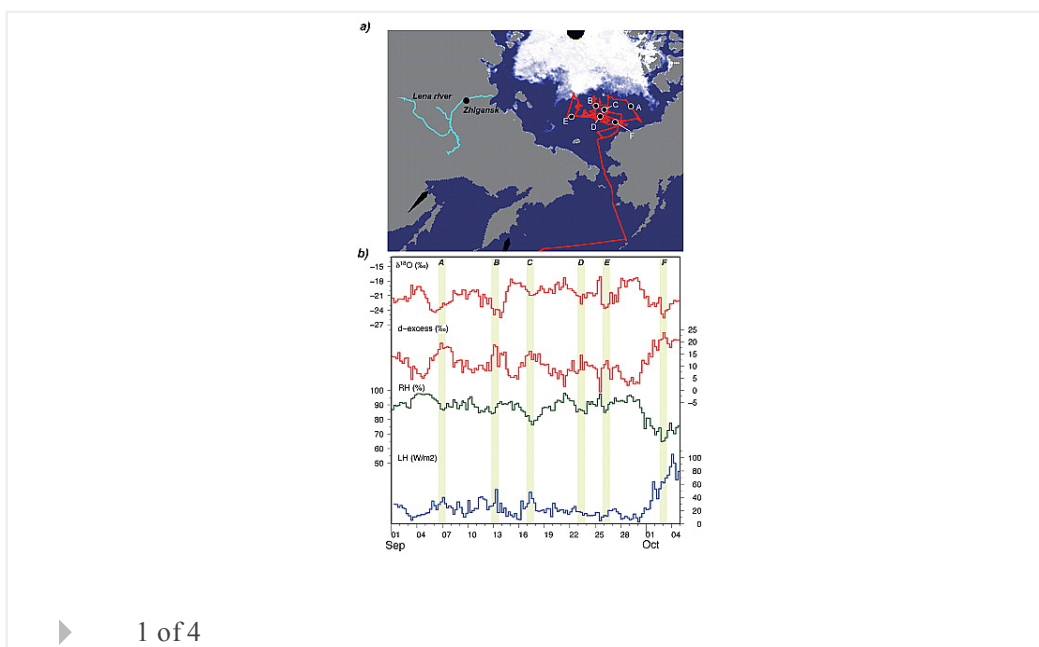
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Origin of Arctic water vapor during the ice-growth season

Naoyuki Kurita

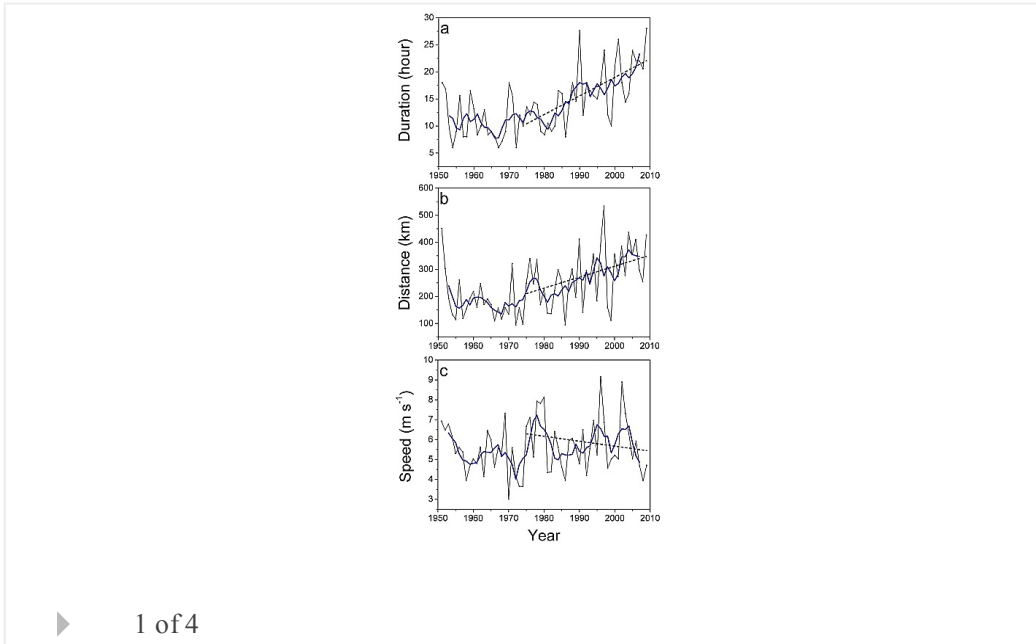
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Increasing duration of tropical cyclones over China

Xiaoyu Chen, Liguang Wu, Jiaoyan Zhang

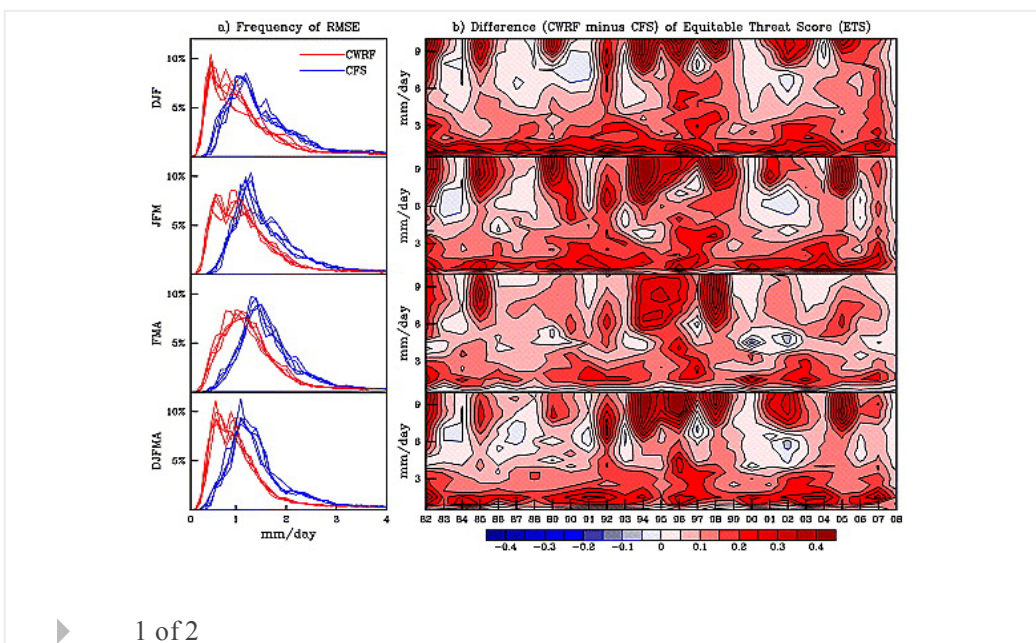
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Improving cold season precipitation prediction by the nested CWRP-CFS system

Xing Yuan, Xin-Zhong Liang

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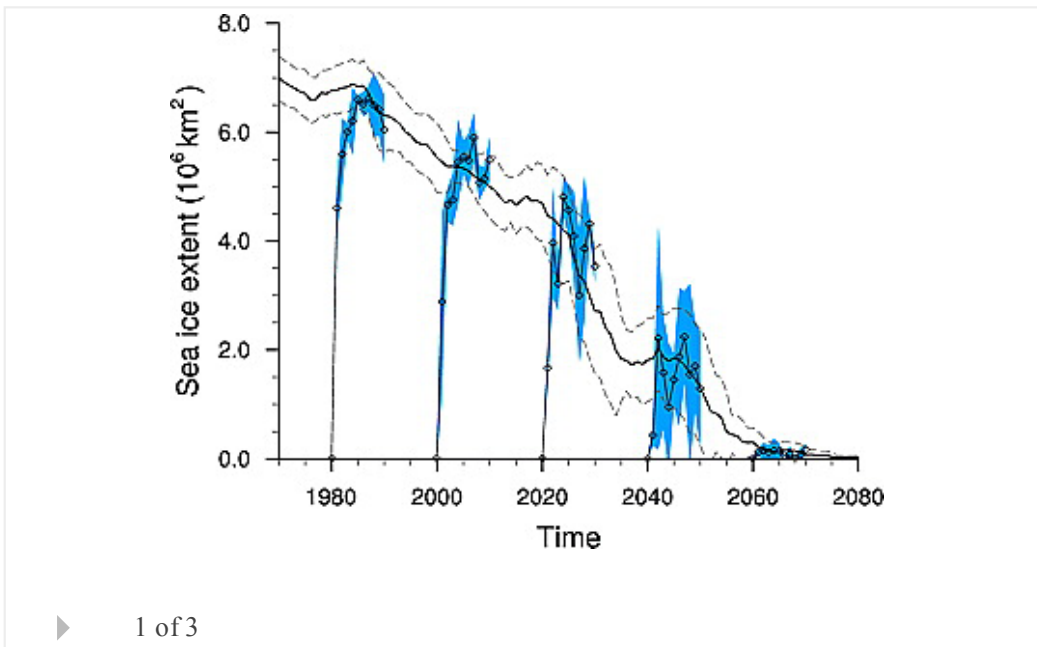


Recovery mechanisms of Arctic summer sea ice

S. Tietsche, D. Notz, J. H. Jungclaus, J. Marotzke

First Published: 26 January 2011 Vol: 38, L02707 | DOI: 10.1029/2010GL045698

Highlight

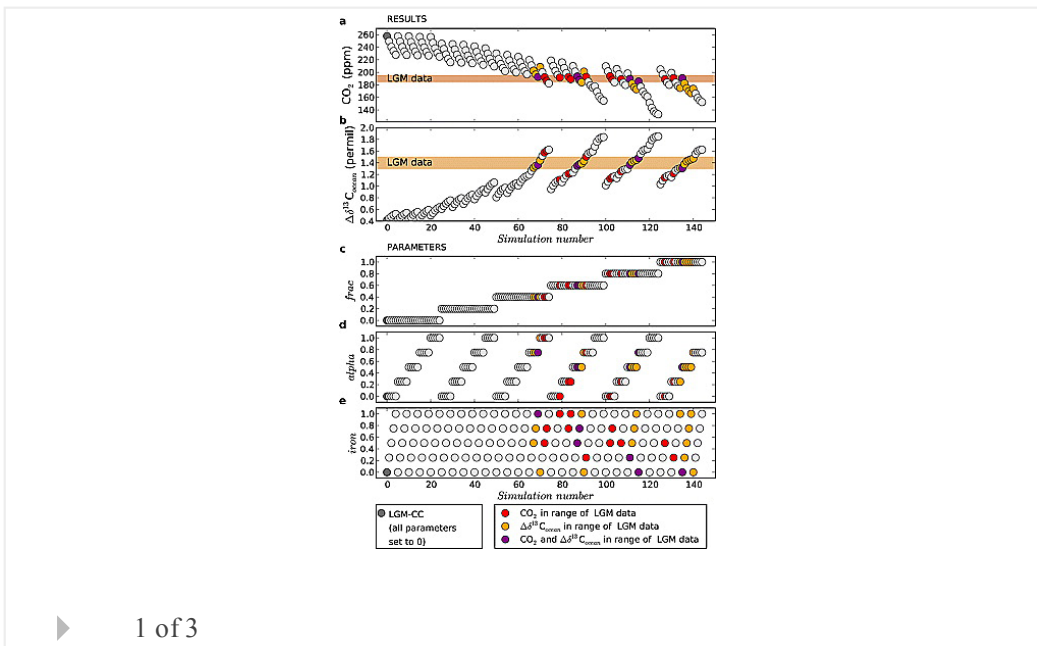


Last Glacial Maximum CO₂ and δ¹³C successfully reconciled

N. Bouttes, D. Paillard, D. M. Roche, V. Brovkin, L. Bopp

First Published: 25 January 2011 Vol: 38, L02705 | DOI: 10.1029/2010GL044499

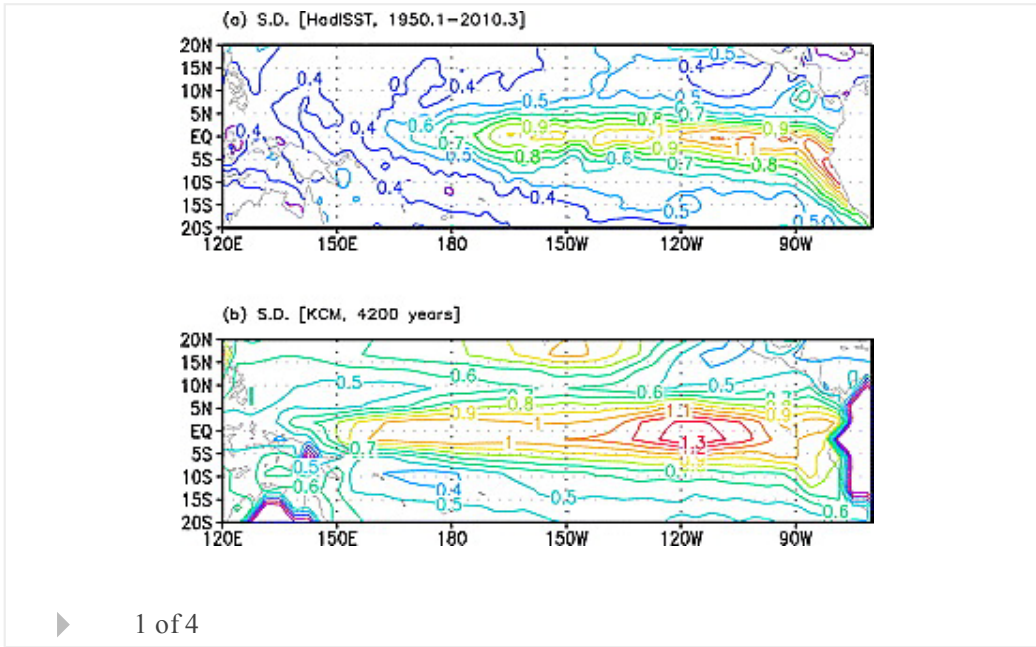
Highlight



Natural variability of the central Pacific El Niño event on multi-centennial timescales

Sang-Wook Yeh, Ben P. Kirtman, Jong-Seong Kug, Wonsun Park, Mojib Latif

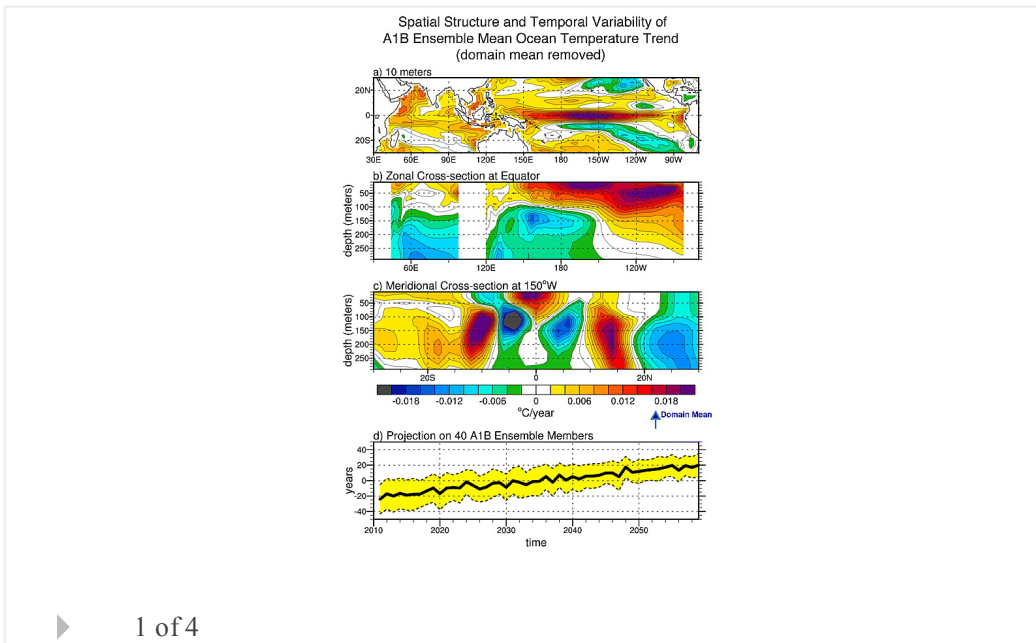
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Decadal predictability of tropical Indo-Pacific Ocean temperature trends due to anthropogenic forcing in a coupled climate model

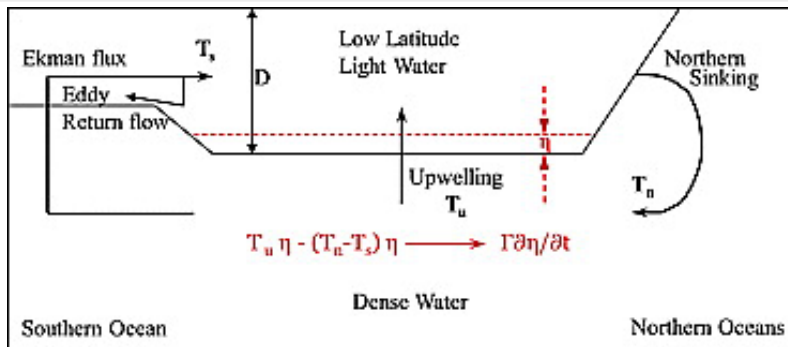
Amy Solomon, Matthew Newman

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Impact of observation-optimized model parameters on decadal predictions: Simulation with a simple pycnocline prediction model

S. Zhang

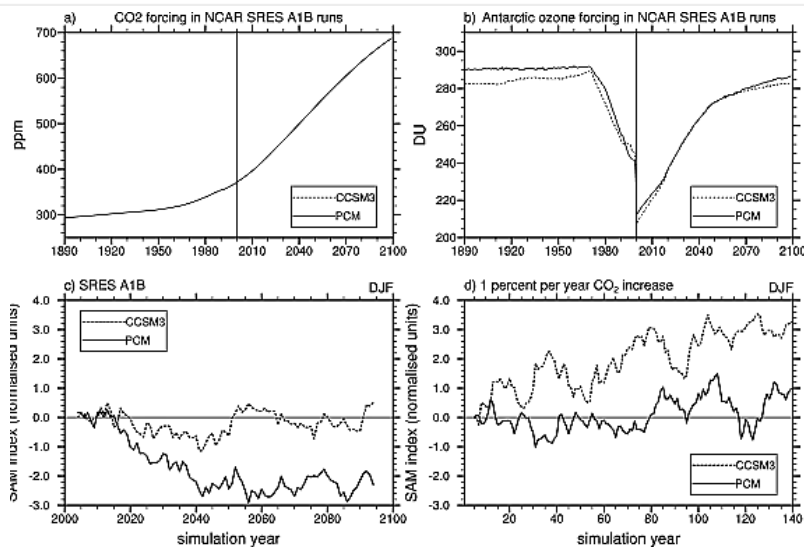


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Future climate change in the Southern Hemisphere: Competing effects of ozone and greenhouse gases

J. M. Arblaster, G. A. Meehl, D. J. Karoly

First Published: 19 January 2011 Vol: 38, L02701 | DOI: 10.1029/2010GL045384



► 1 of 3

Hydrology and Land Surface Studies

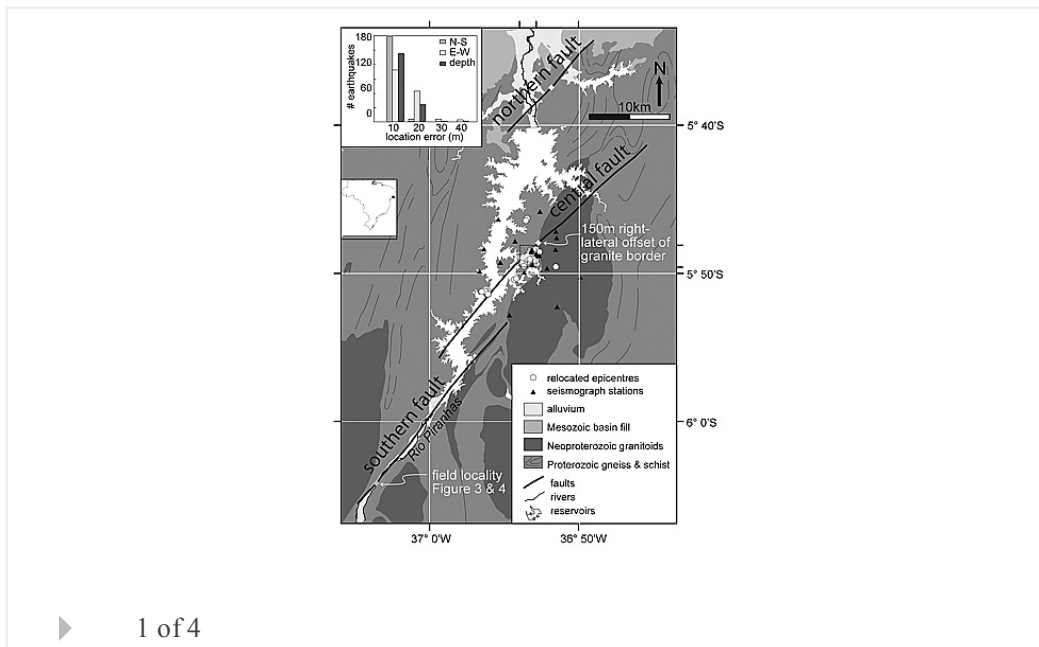
Microseismicity illuminates open fractures in the shallow crust

Stella I. Pytharouli, Rebecca J. Lunn, Zoe K. Shipton, James D. Kirkpatrick, Aderson

F. do Nascimento

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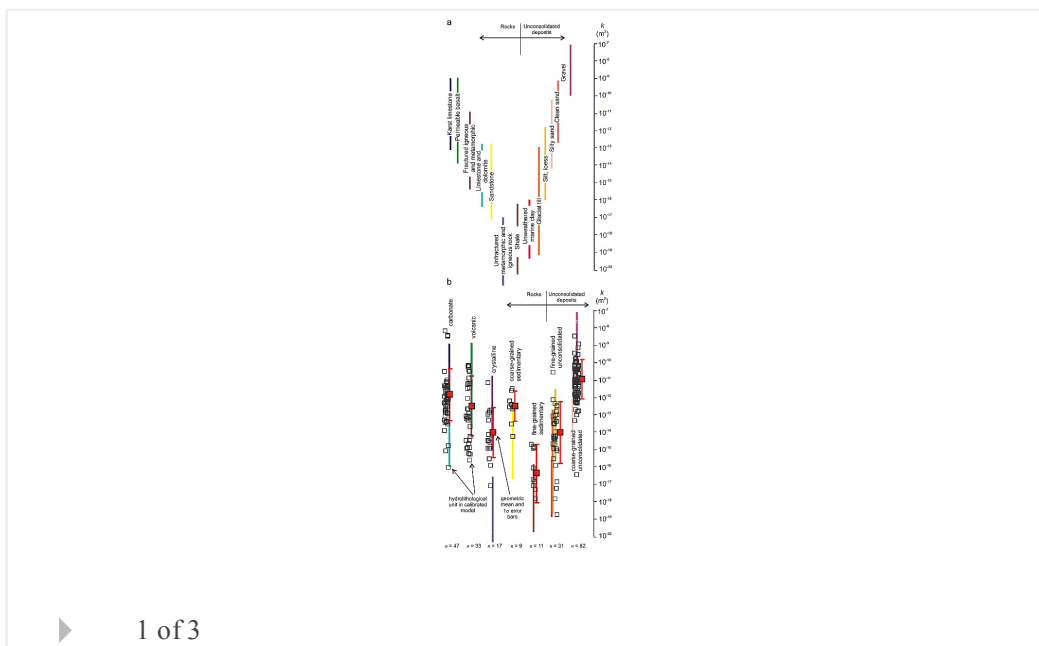


1 of 4

Mapping permeability over the surface of the Earth

Tom Gleeson, Leslie Smith, Nils Moosdorf, Jens Hartmann, Hans H. Dürr, Andrew H. Manning, Ludovicus P. H. van Beek, A. M. Jellinek

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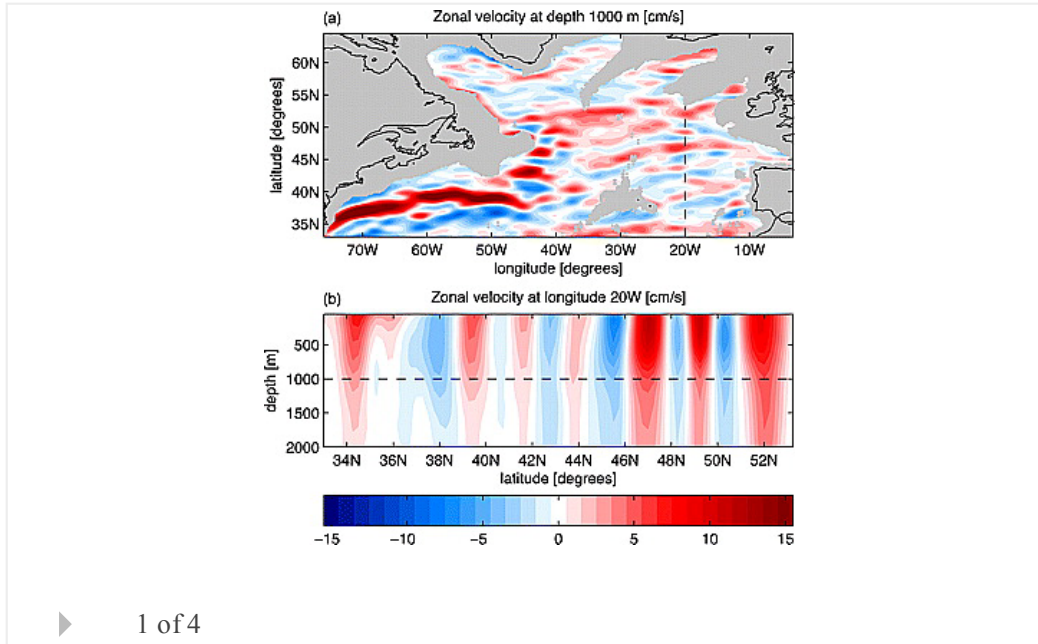
1 of 3

Oceans

Quasi-zonal jets in 3-D Argo data of the northeast Atlantic

Erik van Sebille, Igor Kamenkovich, Josh K. Willis

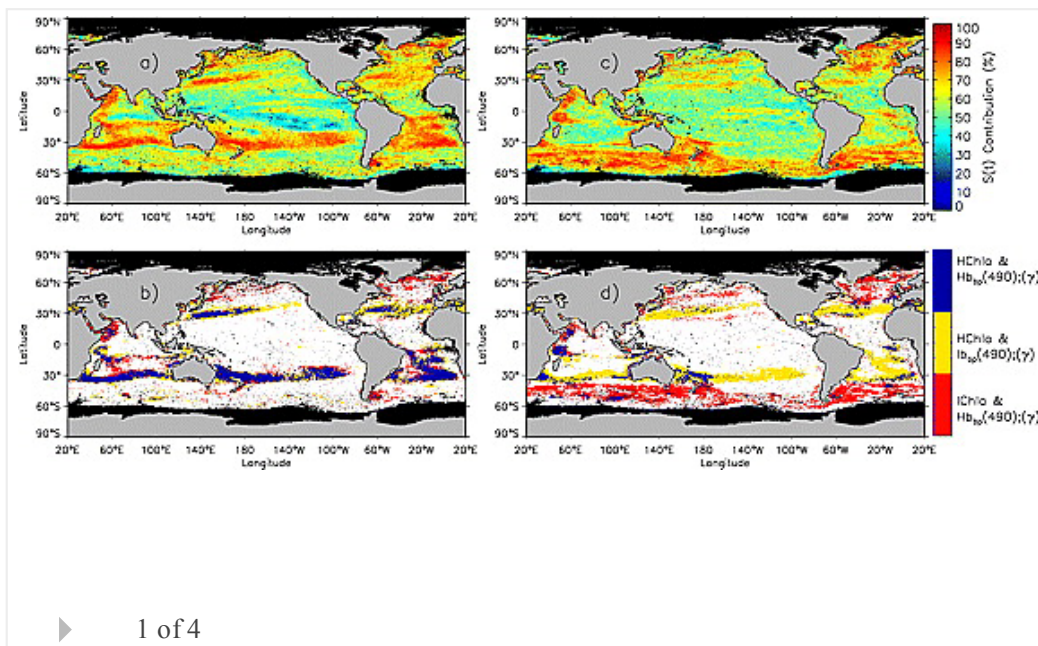
First Published: 28 January 2011 Vol: 38, L02606 | DOI: 10.1029/2010GL046267



Global particulate matter pool temporal variability over the SeaWiFS period (1997–2007)

V. Vantrepotte, H. Loisel, F. Mélin, D. Desailly, L. Duforêt-Gaurier

First Published: 25 January 2011 Vol: 38, L02605 | DOI: 10.1029/2010GL046167

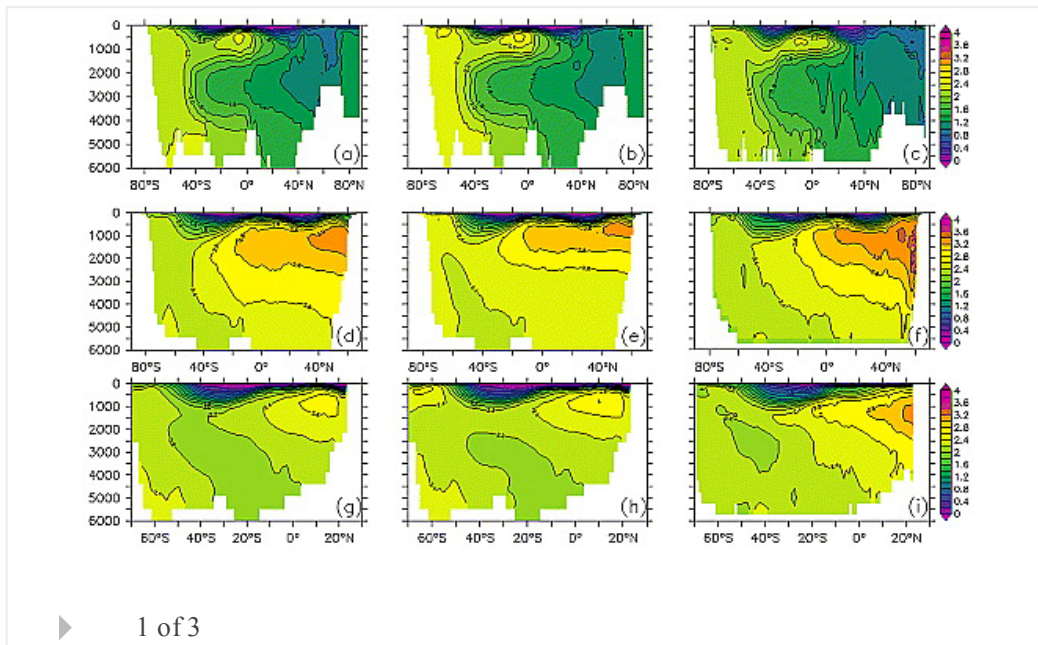


Can we predict the direction of marine primary production change under global

warming?

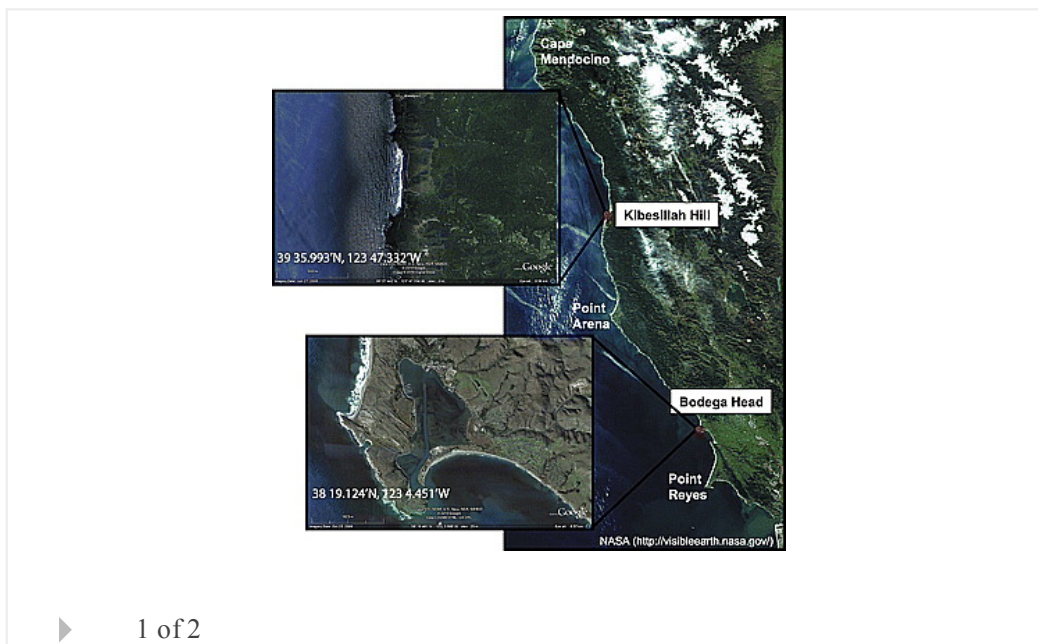
J. Taucher, A. Oschlies

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**Nearshore chlorophyll-a events and wave-driven transport**

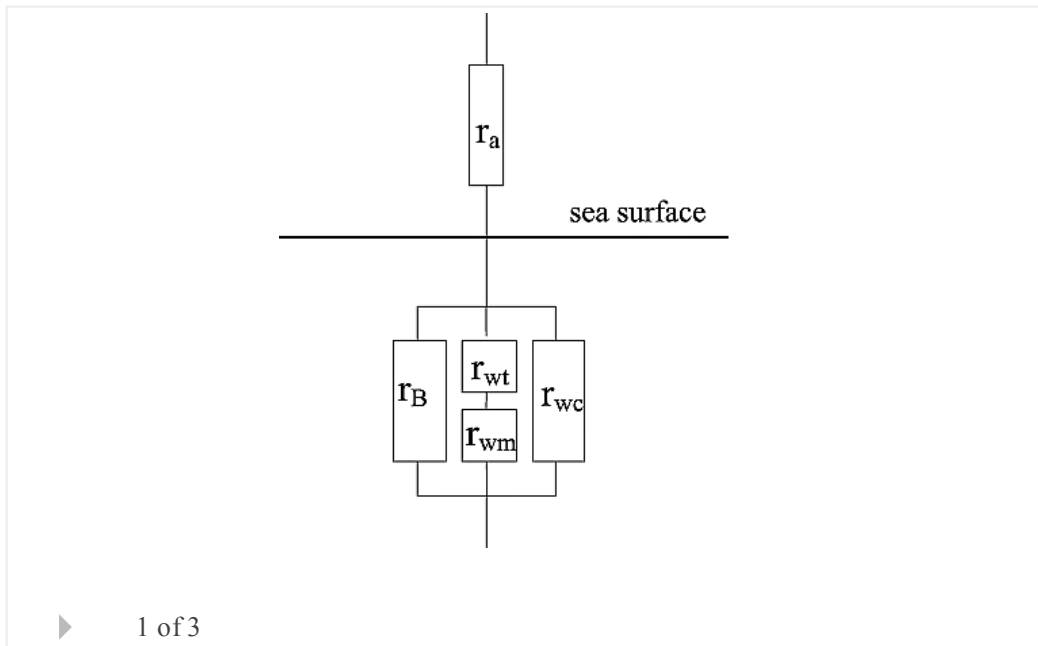
Erika E. McPhee-Shaw, Karina J. Nielsen, John L. Largier, Bruce A. Menge

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**Oceanic convective mixing and the impact on air-sea gas transfer velocity**

A. Rutgersson, A. Smedman, E. Sahlée

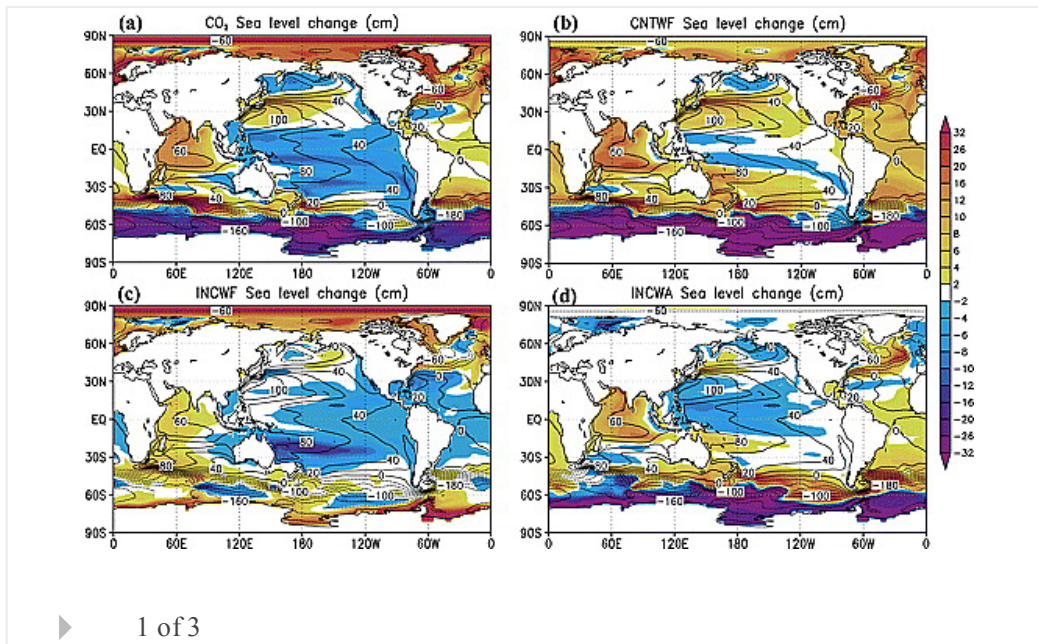
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Regional distribution of sea level changes resulting from enhanced greenhouse warming in the Model for Interdisciplinary Research on Climate version 3.2

Tatsuo Suzuki, Masayoshi Ishii

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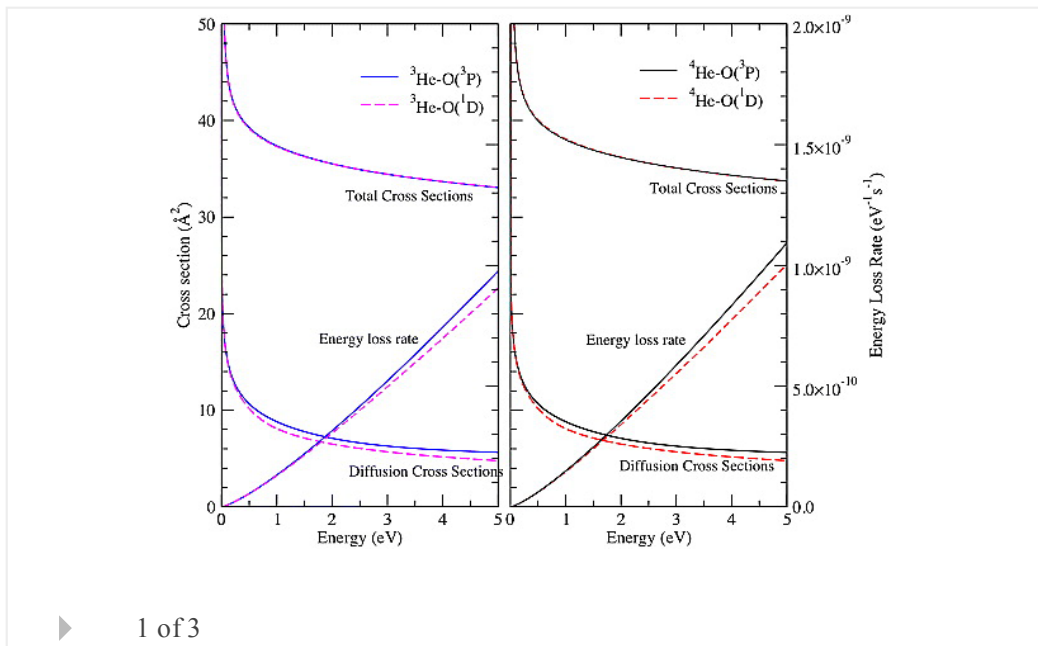


Planets

Energy transfer in O collisions with He isotopes and Helium escape from Mars

S. Bovino, P. Zhang, F. A. Gianturco, A. Dalgarno, V. Kharchenko

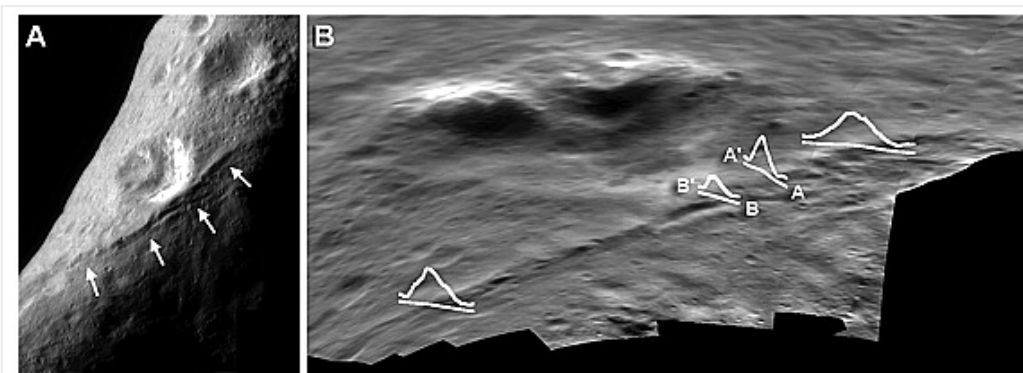
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Thrust faults and the near-surface strength of asteroid 433 Eros

Thomas R. Watters, Peter C. Thomas, Mark S. Robinson

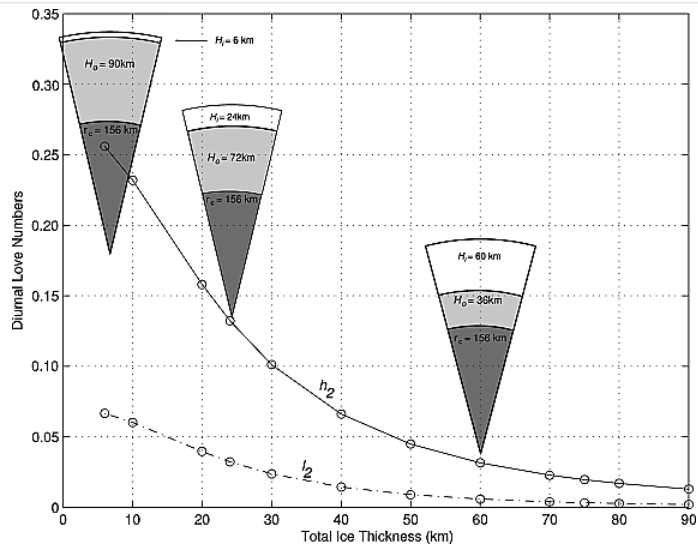
First Published: 22 January 2011 Vol: 38, L02202 | DOI: 10.1029/2010GL045302



Limits of Enceladus's ice shell thickness from tidally driven tiger stripe shear failure

John G. Olgin, Bridget R. Smith-Konter, Robert T. Pappalardo

First Published: 21 January 2011 Vol: 38, L02201 | DOI: 10.1029/2010GL044950



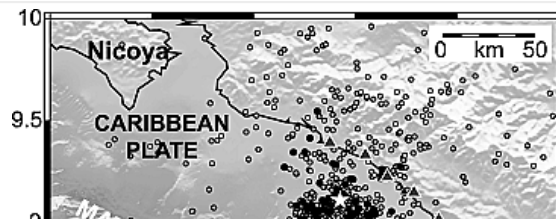
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Solid Earth

Apparent stress variations near the Osa Peninsula, Costa Rica, influenced by subducted bathymetric features

Pamela A. Moyer, Susan L. Bilek, W. Scott Phillips

First Published: 29 January 2011 Vol: 38, L02304 | DOI: 10.1029/2010GL045955

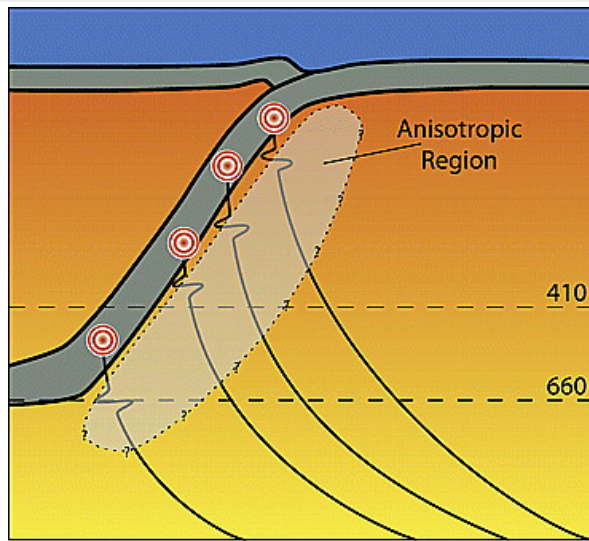


▶ 1 of 4

Upper and mid-mantle anisotropy beneath the Tonga slab

Bradford J. Foley, Maureen D. Long

First Published: 21 January 2011 Vol: 38, L02303 | DOI: 10.1029/2010GL046021

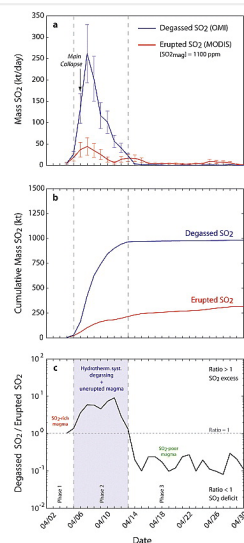


▶ 1 of 4

Satellite-based evidence for a large hydrothermal system at Piton de la Fournaise volcano (Reunion Island)

Mathieu Gouhier, Diego Coppola

First Published: 21 January 2011 Vol: 38, L02302 | DOI: 10.1029/2010GL046183

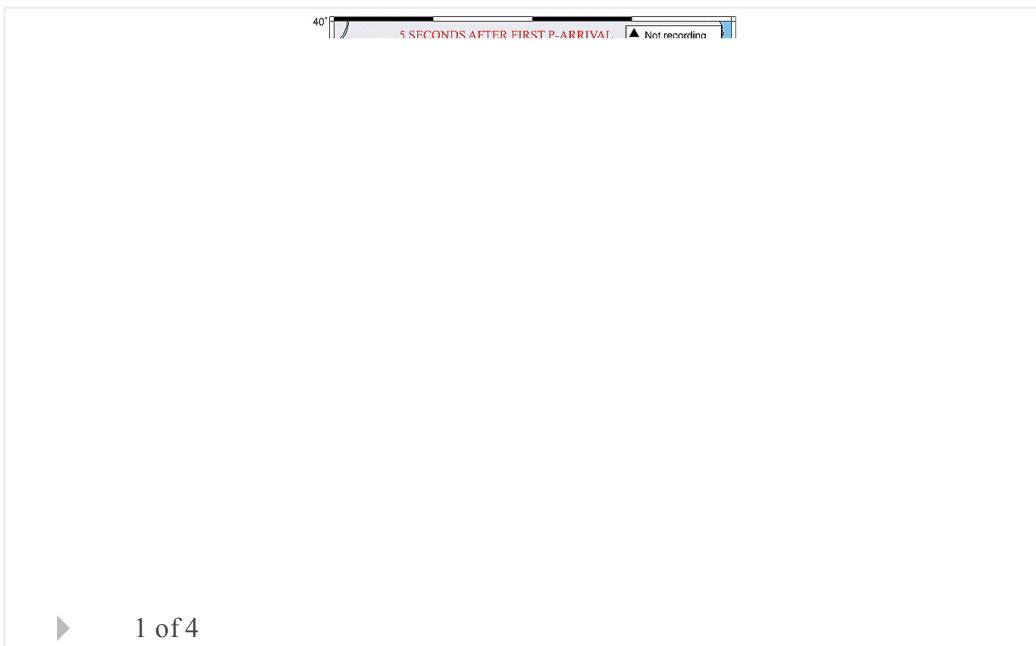


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An evolutionary approach to real-time moment magnitude estimation via inversion of displacement spectra

M. Caprio, M. Lancieri, G. B. Cua, A. Zollo, S. Wiemer

First Published: 20 January 2011 Vol: 38, L02301 | DOI: 10.1029/2010GL045403



Space Sciences

Quasi-periodic polar flares at Jupiter: A signature of pulsed dayside reconnections?

B. Bonfond, M. F. Vogt, J.-C. Gérard, D. Grodent, A. Radioti, V. Coumans

First Published: 28 January 2011 Vol: 38, L02104 | DOI: 10.1029/2010GL045981

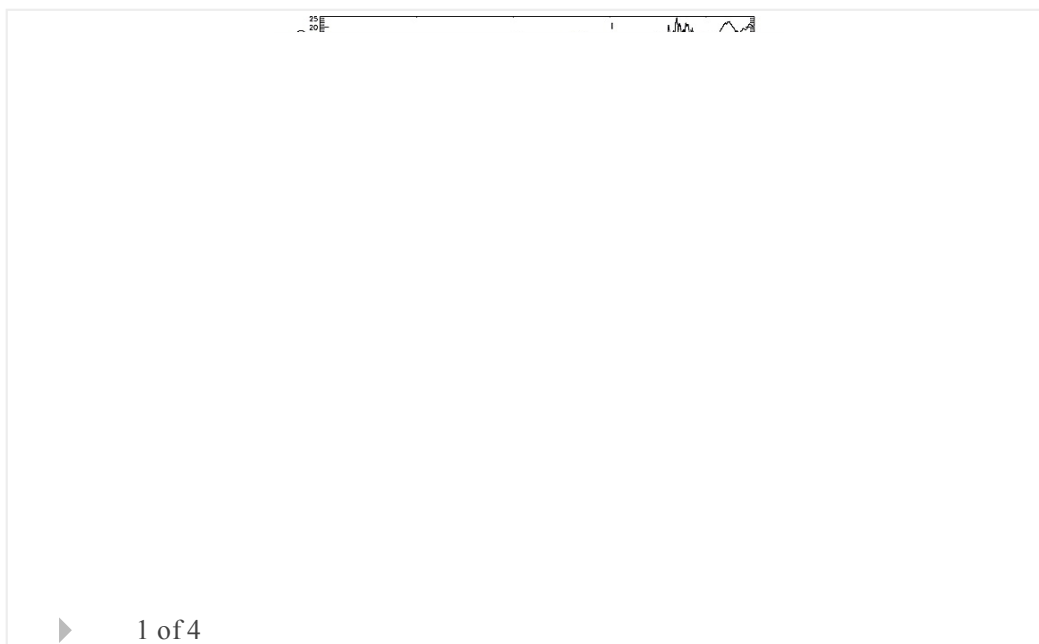
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Negative potentials above the day-side lunar surface in the terrestrial plasma sheet: Evidence of non-monotonic potentials

Andrew Poppe, Jasper S. Halekas, Mihály Horányi

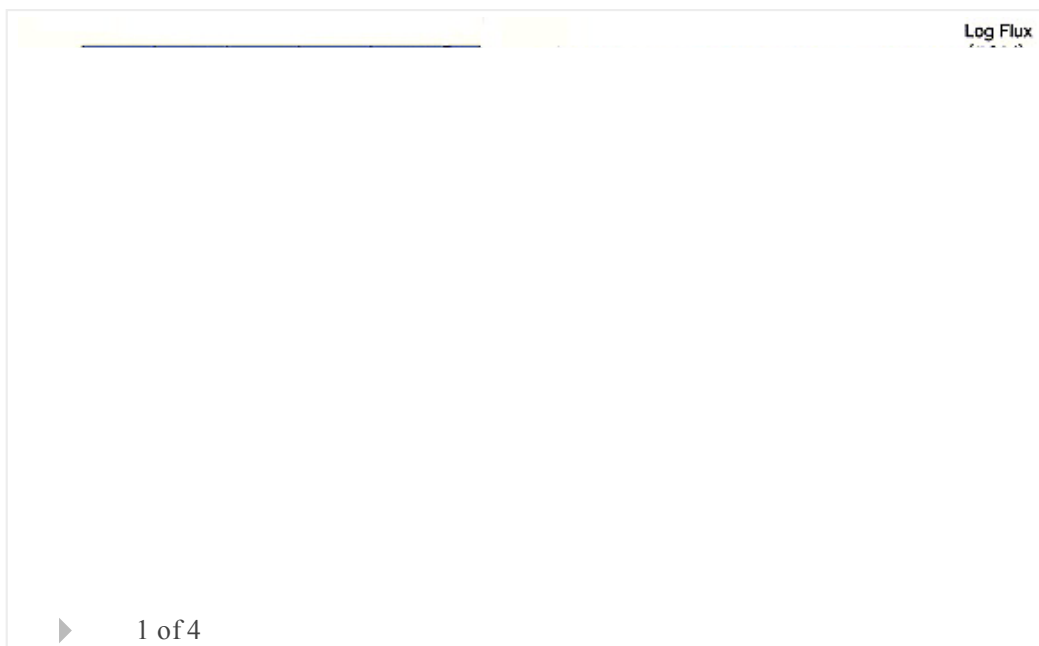
First Published: 28 January 2011 Vol: 38, L02103 | DOI: 10.1029/2010GL046119



On the relation between plasma escape and the Martian crustal magnetic field

R. Lundin, S. Barabash, M. Yamauchi, H. Nilsson, D. Brain

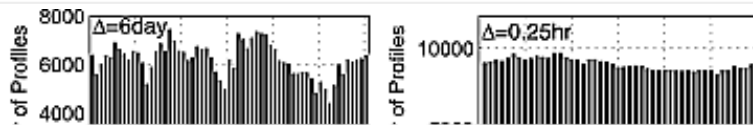
First Published: 25 January 2011 Vol: 38, L02102 | DOI: 10.1029/2010GL046019



Global characteristics of occurrence of an additional layer in the ionosphere observed by COSMIC/FORMOSAT-3

Biqiang Zhao, Weixing Wan, Xinan Yue, Libo Liu, Zhipeng Ren, Maosheng He, Jing Liu

First Published: 19 January 2011 Vol: 38, L02101 | DOI: 10.1029/2010GL045744



▶ 1 of 3

The Cryosphere

Sea ice response to an extreme negative phase of the Arctic Oscillation during winter 2009/2010

Julienne C. Stroeve, James Maslanik, Mark C. Serreze, Ignatius Rigor, Walter Meier, Charles Fowler

First Published: 29 January 2011 Vol: 38, L02502 | DOI: 10.1029/2010GL045662

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Dynamic topography of the ice-covered Arctic Ocean from ICESat

R. Kwok, J. Morison

First Published: 26 January 2011 Vol: 38, L02501 | DOI: 10.1029/2010GL046063



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