

University of Tasmania Open Access Repository

Cover sheet

Title

Detecting change in the Indonesian seas

Author

Sprintall, J, Gordon, AL, Wijffels, SE, Feng, M, Hu, S, Koch-Larrouy, A, Helen Phillips, Nugroho, D, Napitu, A, Pujiana, K, Susanto, RD, Sloyan, BM, Yuan, D, Riama, NF, Siswanto, S, Kuswardani, A, Arifin, Z, Wahyudi, AJ, Zhou, H, Nagai, T, Ansong, JK, Bourdalle-Badie, R, Chanut, J, Lyard, F, Arbic, BK, Ramdhani, A, Setiawen, A

Bibliographic citation

Sprintall, J; Gordon, AL; SE Wijffels; Feng, M; Hu, S; Koch-Larrouy, A; et al. (2019). Detecting change in the Indonesian seas. University Of Tasmania. Journal contribution. https://figshare.utas.edu.au/articles/journal_contribution/Detecting_change_in_the_Indonesian_seas/22977992

Is published in: 10.3389/fmars.2019.00257

Copyright information

This version of work is made accessible in the repository with the permission of the copyright holder/s under the following,

Licence.

Rights statement: Copyright 2019 Sprintall, Gordon, Wiffels, Feng, Hu, Koch-Larrouy, Phillips, Nugroho, Napitu, Pujiana, Susanto, Sloyan, Yuan, Riama, Siswanto, Kuswardani, Arifin, Wahyudi, Zhou, Nagai, Ansong, Bourdalle-Badie, Chanut, Lyard, Arbic, Ramdhani and Setiawan. Licensed under Creative Commons Attribution 4.0 International (CC BY 4.0) https://creativecommons.org/licenses/by/4.0/

If you believe that this work infringes copyright, please email details to: oa.repository@utas.edu.au

Downloaded from University of Tasmania Open Access Repository

Please do not remove this coversheet as it contains citation and copyright information.

University of Tasmania Open Access Repository

Library and Cultural Collections
University of Tasmania
Private Bag 3
Hobart, TAS 7005 Australia
E oa.repository@utas.edu.au
CRICOS Provider Code 00586B | ABN 30 764 374 782
utas.edu.au





Corrigendum: Detecting Change in the Indonesian Seas

Janet Sprintall^{1*}, Arnold L. Gordon², Susan E. Wijffels³, Ming Feng^{4,5}, Shijian Hu^{6,7}, Ariane Koch-Larrouy^{8,9}, Helen Phillips¹⁰, Dwiyoga Nugroho^{8,11}, Asmi Napitu¹², Kandaga Pujiana¹³, R. Dwi Susanto^{13,14}, Bernadette Sloyan^{4,5}, Beatriz Peña-Molino^{4,5}, Dongliang Yuan^{6,7}, Nelly Florida Riama¹⁵, Siswanto Siswanto¹⁵, Anastasia Kuswardani¹², Zainal Arifin¹⁶, A'an J. Wahyudi¹⁶, Hui Zhou⁶, Taira Nagai¹⁷, Joseph K. Ansong¹⁸, Romain Bourdalle-Badié⁹, Jerome Chanut⁸, Florent Lyard⁸, Brian K. Arbic¹⁹, Andri Ramdhani¹⁵ and Agus Setiawan¹²

¹ Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA, United States, ² Lamont Doherty Earth Observatory of Columbia University, Palisades, NY, United States, ³ Department of Physical Oceanography, Woods Hole Oceanographic Institution, Woods Hole, MA, United States, ⁴ Commonwealth Scientific and Industrial Research Organisation (CSIRO), Hobart, TAS, Australia, ⁵ Centre for Southern Hemisphere Oceans Research, Hobart, TAS, Australia, ⁶ Key Laboratory of Ocean Circulation and Waves, Institute of Oceanology, Center for Ocean Mega-Science, Chinese Academy of Sciences, Qingdao, China, ⁷ Qingdao National Laboratory for Marine Science and Technology, Qingdao, China, ⁸ Laboratory of Studies on Spatial Geophysics and Oceanography (LEGOS), Toulouse, France, ⁹ Mercator-Océan, Ramonville-Saint-Agne, France, ¹⁰ Institute for Marine and Antarctic Science, University of Tasmania, Hobart, TAS, Australia, ¹¹ Agency of Research and Development for Marine and Fisheries, Jakarta, Indonesia, ¹² Ministry of Marine Affairs and Fisheries of the Republic of Indonesia, Jakarta, Indonesia, ¹³ Faculty of Earth Sciences and Technology, Bandung Institute of Technology, Bandung, Indonesia, ¹⁴ Department of Atmospheric and Oceanic Science, University of Maryland, College Park, MD, United States, ¹⁵ Meteorology, Climatology, and Geophysical Agency (BMKG), Jakarta, Indonesia, ¹⁶ Research Center for Oceanography, Indonesian Institute of Sciences (LIPI), Jakarta, Indonesia, ¹⁷ Department of Earth and Planetary Science, The University of Tokyo, Tokyo, Japan, ¹⁸ Department of Mathematics, University of Ghana, Legon, Ghana, ¹⁹ Department of Earth and Environmental Sciences, University of Michigan, Ann Arbor, MI, United States

Keywords: Indonesian throughflow, observing system, intraseasonal, ENSO, transport variability, planetary waves

A Corrigendum on

Detecting Change in the Indonesian Seas

by Sprintall, J., Gordon, A. L., Wijffels, S. E., Feng, M., Peña-Molino, B., Hu, S., et al. (2019). Front. Mar. Sci. 6:257. doi: 10.3389/fmars.2019.00257

In the original article, there was a mistake in the both the figure and legend for **Figure 7** as published. Velocity anomalies were shown incorrectly, we now show absolute velocity. The correct legend appears below.

Furthermore, there was a mistake in the legends for **Figure 12** and **Figure 13** as published. In the Authors Proof, the authors had asked that the complete **Figures 12, 13** be swapped. The figures were swapped but the legends were not. The correct legend appears below.

Figure 12 | The baroclinic tides (cm) from (A) along-track TOPEX/Poseidon and Jason satellite altimeter data (1992–2009) (B) the NEMO $1/12^{\circ}$ INDESO model configuration (Nugroho et al., 2017) and (C) the HYCOM $1/12^{\circ}$ model configuration (Ansong et al., 2015) and (D) the MITgcm ($1/100^{\circ}$, Nagai and Hibiya, 2015). Details of the approach used to extract baroclinic tides from the HYCOM output and along-track altimeter data are provided in Shriver et al. (2012). Model output are interpolated to the altimeter tracks. For models and altimeter output, spatial band-pass filtering along the altimeter tracks is used to extract the M2 internal tide signals with wavelengths in the 50–400 km range. Only locations with

OPEN ACCESS

Edited and reviewed by:

Gilles Reverdin, Centre National de la Recherche Scientifique (CNRS), France

*Correspondence:

Janet Sprintall jsprintall@ucsd.edu

Specialty section:

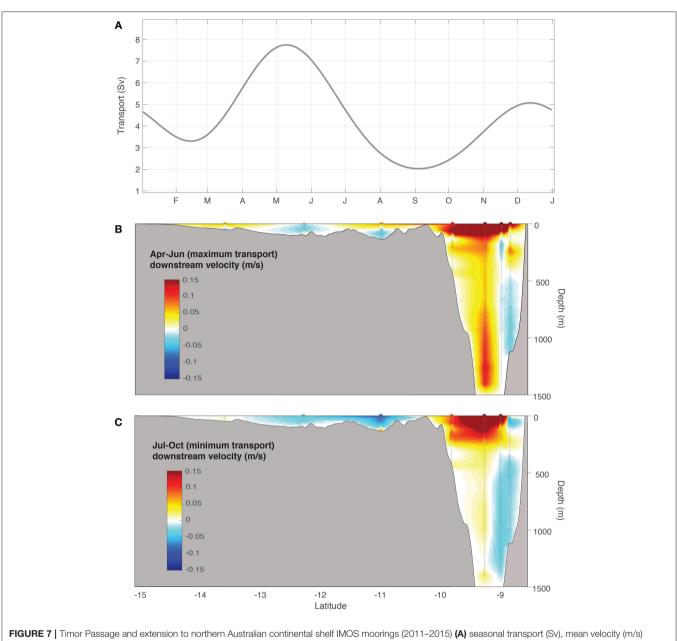
This article was submitted to Ocean Observation, a section of the journal Frontiers in Marine Science

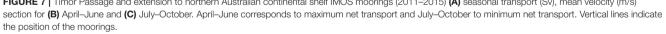
Received: 10 July 2019 Accepted: 20 August 2019 Published: 06 September 2019

Citation:

Sprintall J, Gordon AL, Wijffels SE, Feng M, Hu S, Koch-Larrouy A, Phillips H, Nugroho D, Napitu A, Pujiana K, Susanto RD, Sloyan B, Peña-Molino B, Yuan D, Riama NF, Siswanto S, Kuswardani A, Arifin Z, Wahyudi AJ, Zhou H, Nagai T, Ansong JK, Bourdalle-Badié R, Chanut J, Lyard F, Arbic BK, Ramdhani A and Setiawan A (2019) Corrigendum: Detecting Change in the Indonesian Seas. Front. Mar. Sci. 6:549. doi: 10.3389/fmars.2019.00549

1





sea floor depth greater than 1500 m are plotted (Figure from Ansong et al., 2015).

Figure 13 | Semi-major axis of the velocity (cm s⁻¹) for the (A) M2, (B) K1, (C) S2, and (D) O1 tidal constituents in the NEMO 1/12° INDESO model configuration (Figure from Nugroho, 2017. Permission obtained from author).

Lastly, "Beatriz Peña Molino" was not included as an author in the published article. The corrected Author Contributions Statement appears below. JS led the writing, editing, and organization of the manuscript. AG, SW, MF, and SH led and wrote sections. AK-L and HP led and wrote significant subsections. DN, AN, KP, RS, BS, BP-M, DY, NR, SS, AK, ZA, AW, HZ, TN, JA, RB-B, JC, FL, BA, AR, and AS contributed to the writing of sections. All authors contributed comments.

The authors apologize for these errors and state that they do not change the scientific conclusions of the article in any way. The original article has been updated.

REFERENCES

- Ansong, J. K., Arbic, B. K., Buijsman, M. C., Richman, J. G., Shriver, J. F., and Wallcraft, A. J. (2015). Indirect evidence for substantial damping of low-mode internal tides in the open ocean. J. Geophys. Res. Oceans 120, 6057–6071. doi: 10.1002/2015JC010998
- Nagai, T., and Hibiya, T. (2015). Internal tides and associated vertical mixing in the Indonesian Archipelago. J. Geophys. Res. Oceans 120, 3373–3390. doi: 10.1002/2014jc010592
- Nugroho, D. (2017). *Tides in a OGCM in the Indonesian Seas*. Toulouse: Paul Sabatier University.
- Nugroho, Y., Koch-Larrouy, A., Gaspar, P., Lyard, F., Reffray, G., Tranchant, B., et al. (2017). Modelling explicit tides in the Indonesian seas: an important process for surface sea water properties. *Mar. Pollut. Bull.* 131(Pt B), 7–18. doi: 10.1016/j.marpolbul.2017.06.033
- Shriver, J. F., Arbic, B. K., Richman, J. G., Ray, R. D., Metzger, E. J., Wallcraft, A. J., et al. (2012). An evaluation of the barotropic and internal tides in a high-resolution global ocean circulation model. *J. Geophys. Res. Oceans* 117, 1–14.

Copyright © 2019 Sprintall, Gordon, Wijffels, Feng, Hu, Koch-Larrouy, Phillips, Nugroho, Napitu, Pujiana, Susanto, Sloyan, Peña-Molino, Yuan, Riama, Siswanto, Kuswardani, Arifin, Wahyudi, Zhou, Nagai, Ansong, Bourdalle-Badié, Chanut, Lyard, Arbic, Ramdhani and Setiawan. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.