

CURRICULUM VITAE

Arnold L. Gordon

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DEGREES:

B.A.	The Herbert Lehman College (formerly Hunter College of the City of N.Y.)	1961
Ph.D.	Columbia University of the City of New York Thesis: Quantitative study of the dynamics of the Caribbean Sea. Advisor Professor Dr. G. Wüst	1965
Sc.D.	University of Cape Town, South Africa <i>Honoris causa</i>	2005

EMPLOYMENT:

Assistant Professor, Geology Dept., Columbia University	66/67-70/71
Associate Professor, Geology Dept., Columbia University	71/72-76/77
Senior Staff, Lamont-Doherty Earth Observatory of Columbia University, Palisades, N. Y. 10964	1971-
Chairman, Dept. of Geological Sciences, Columbia University	1976/77
Professor, Columbia University	1977-present
Lamont Associate Director, Division of Ocean and Climate Physics	2001-2014
Director, Lamont's Paros-PGI Observatory Technical and Innovation Center.	2005-2011
Professor Emeritus of Earth and Environmental Sciences	July 1, 2023

HONORS, SOCIETIES, EDITORSHIPS, VISITING APPOINTMENTS, ELECTED OFFICES:

- Sigma XI
- American Association for the Advancement of Science
- American Geophysical Union
- American Meteorology Society
- The Oceanography Society
- Visiting Scholar, Woods Hole Oceanographic Institution, 1971 (summer)
- Editor "Studies in Physical Oceanography - A Tribute to Georg Wüst on his 80th Birthday". 2 Vols. 1972
- Associate Editor, Journal of Geophysical Research 1973-1975
- Antarctic Site named for A.L. Gordon: Gordon Nunataks 72 deg 53'S;
63 deg 48'W 1977
- United States Antarctic Service Medal 1978

- Guest Investigator WHOI GFD Program (Summer) 1979, 1983
- Visiting Scientist of the JISAO at the University of Washington 1980
- Editor of EOS (AGU Transactions): The Oceanography Report 1981-1984
- President (elect/present) AGU Ocean Sciences Section 1984-1988
- The 9th Henry Bryant Bigelow Medal (awarded by WHOI) 1984
- Hunter College Hall of Fame 1985
- Fellow, American Geophysical Union 1989
- President (elect/present/post) The Oceanography Society 1989-96
- H. Burr Steinbach Visiting Scholar at WHOI (July 22-26, 1991) 1991
- Fellow, American Meteorological Society 1994
- Visiting Professor at the Naval Postgraduate School, Monterey, CA 1995
- AGU Ewing Medal 1999
- American Polar Society Honorary Membership 2000
- Arnold L. Gordon, Laurie Padman, Andrea Bergamasco, Guest Editors
Southern Ocean Shelf Slope Exchange, Deep Sea Research Part II:
Topical Studies in Oceanography, Volume 56, Issues 13-14- selected
pp. 775-894 June 2009
- Guest Editors: A.L. Gordon and V.M. Kamenkovich: "Modeling and
Observing the Indonesian Throughflow", Dynamics of Atmosphere
and Ocean 2010
- Prince Albert I Medal of IAPSO 2013
- Fellow, Association for the Advancement of American Science 2013
- Houghton Lecturer, Massachusetts Institute of Technology 2015 (spring)
- Fellow, The Oceanography Society 2015
- Managing Guest Editor, Atmosphere-Ocean Dynamics of Bay of Bengal
special issue of Deep Sea Research part II 2018-19
- Guest Editor for special issue of JGR-ocean, "Recent Progress in
Oceanography and Air-Sea Interactions in Southeast Asian Archipelago" 2018-19
- AMS Henry Stommel Research Medal 2020
- AGU Harald Sverdrup Lecture 2020
- NPOCE, Distinguished Contribution Award 2022
- Irving & Margalit Like Conservation Award 2023

COMMITTEES:

- Geochemical Ocean Section Study (GEOSECS), Scientific Advisory Council
- IOC Committee on "International Exchange of Oceanographic Data" 1970
- IOC Committee of "Cooperative Programs in the Southern Oceans 1970, 1977, 1983
- Ross Ice Shelf Project Steering Committee, NAS 1970-1972
- Antarctic Oceanography Working Group, Committee of Polar Research,
National Academy of Sciences 1972-1973
- Ocean Science Committee, Task Group of Continuously Sampled Data 1972-1973
- Executive Committee of the International Southern Ocean Studies (ISOS) 1973-1980
- U.S. Member on the SCAR Working Group on Oceanography 1977-1982
- Polar Research Board of the National Research Council Member 1981-1985
- NSF Ocean Sciences - Panel Member 1981-1983
- Polar Oceans Climate Studies Panel, Ad Hoc Committee of the Ocean
Sciences Board of NRC 1982-
- SCOR Working Group 74: Southern Ocean Committee 1982-

Polar Research Board Committee on Antarctic Oceanography (Chairman)	1983-1986
Steering Committee (Chairman) for the U.S. - German Polarstern Antarctic Expedition	1984-1986
AGU Ewing Medal Subcommittee	1984-1986
Member of U.S. National Committee for IUGG	1984-1988
NAS/Climate Research Committee	1985-1988
Geophysics Study Committee of NAS	1986-1989
Administrative Committee of the Lamont-Doherty Geological Observatory	1987-1990
WOCE Core Project 2 Working Group (Chairman 1987-92)	1987-1994
Ocean Studies Board of the National Research Council	1988-1993
U. S. WOCE Science Steering Committee	1988-1991
Science Working Group of NOAA Atlantic Climate Change Program (Co-Chairman 1988-1992)	1988-1995
Vetlesen Prize Selection Committee	1991, 1994, 2022
Joint Science Committee., World Meteorological Organization	1992-1994
CLIVAR Scientific Steering Group (Chairman), WCRP	1993-1996
US Ocean CLIVAR Committee	1995-1996
AnZone (SCOR Affiliated Committee)	1997
Chairman of WHOI Visiting Committee for PO & AOPE, April GLOBEC SSC	1999
GSFC/NASA Visiting Committee for ESD, May	1999
AOML/NOAA Visiting Committee February	2000
AGU, James B. Macelwane Medal Committee (Chair, 2002-04)	2000-04
CLIVAR/CliC Southern Ocean Panel	2001-2003
US CLIVAR Southern Ocean WG (chairperson)	2002-
UCAR Representative from Columbia University	2004-2014
Member of the U.S. CLIVAR Salinity Working Group	2005-2007
Chair of ONR/DRI: PhilEx Steering Committee	2006-2012
Science Team for NASA Aquarius	2010-2015
[Korean] KORDI Science Advisory Committee	2010-2014
CLIVAR ITF Task Team	2011-2013
Cooperative Institute for Marine and Atmospheric Studies (CIMAS) review panel	2014

FIELD WORK:

1963	(July-Sept)	Survey of Indian Ocean aboard R/V ATLANTIS II
1965	(Sept-Nov)	USNS ELTANIN Cruise 20, Antarctic waters
1967	(April)	R/V GOSNOLD, Caribbean Sea
1968	(Feb-April)	USNS ELTANIN Cruise 33, Antarctic waters
1969	(Jan-March)	USNS ELTANIN Cruise 37, Antarctic waters (Chief Scientist)
1968-71		Frequent dye diffusion experiments in Bermuda waters
1970	(June-Sept)	USNS ELTANIN Cruise 44, Antarctic waters (Chief Scientist)
1971-72	(Nov-Jan)	USNS ELTANIN Cruise 50, Antarctic waters (Chief Scientist)
1975	(Feb-March)	R/V CONRAD Cruise 18-01, Drake Passage (Chief Scientist)
		(ISOS Cruise)
1977	(Jan-Feb)	ARA ISLAS ORCADAS Cruise 12-77, Weddell Basin (Chief Sci.)
1979-80	(Dec-Jan)	R/V ATLANTIS II, 107-3, Argentine Basin (Chief Scientist)
1981	(Oct-Nov)	MIKHAIL SOMOV, Weddell Sea

1983	(Nov-Dec)	R/V KNORR, Agulhas Current (Chief Scientist)
1984	(Oct)	R/V THOMAS WASHINGTON, Brazil-Malvinas Confluence (Chief Scientist)
1986		POLARSTERN, Weddell Gyre
1991	(Dec)	BARUNA JAYA I cruise (Indonesia)
1992	(May-June)	NATHANIEL PALMER cruise 92-2 (Weddell Sea) (Chief Sci.)
1993	(May)	DISCOVERY II (Benguela Current) (Chief Scientist)
1993	(July-August)	BARUNA JAYA ARLINDO CRUISE (Indonesia)
1994	(January-Feb)	BARUNA JAYA ARLINDO CRUISE (Indonesia)
1995	(January-Mar)	KNORR 145-6 (WHP I-9n; Indian Ocean) (Chief Scientist)
1996	(Nov-Dec)	BARUNA JAYA IV ARLINDO CRUISE (Chief Scientist)
1997	(Aug-Sept)	NATHANIEL PALMER cruise NBP97-6 (Chief Scientist)
1998	(Feb-Mar)	BARUNA JAYA ARLINDO CRUISE (Chief Scientist)
2003	(Feb-Apr)	NATHANIEL PALMER cruise NBP03-02 (Chief Scientist)
2004	(Jan)	Baruna Jaya I INSTANT (Chief Scientist) deployment cruise
2005	(July)	Baruna Jaya I INSTANT (Chief Scientist) rotation cruise
2006	(Nov)	Baruna Jaya I INSTANT recovery cruise (Chief Scientist)
2007	(June/July)	MELVILLE, PhilEx Exploratory Cruise (Chief Scientist)
2008	(Jan-Feb)	MELVILLE, PhilEx IOP-08 Cruise (Chief Scientist)
2009	(Feb-Mar)	MELVILLE, PhilEx IOP-09 Cruise (Chief Scientist)
2011	(May-June)	Revelle, Lamon Bay (Chief Scientist)
2012	(April-May)	Revelle, Lamon Bay (Chief Scientist)
2015	(August)	Baruna Jaya VIII MITF (Chief Scientist)
2017	(August)	Baruna Jaya VIII MITF (Chief Scientist)

REPORTS (Coordinator or Prime Contributor)

1.	SCOR WG74 Southern Ocean	1985
2.	WOCE South Atlantic Sector Report	1985
3.	PRB Southern Ocean Physical/Chemical Oceanography to 2000 A Strategy Report	1988
4.	WOCE Core 2 Southern Ocean, Science Plan	1988
5.	NOAA Atlantic Climate Change Program Science Plan	1990
6.	AnZone Cover Document	1990
7.	WOCE Core Project 2 Meeting 4, Report	1991, 1992
8.	OSB/NRC "Oceanography for the 1990's"	1992
9.	Clivar Initial Science Plan, August 1995, WCRP-89	1995
10.	US Ocean Clivar Plan	1996
11.	Clivar Implementation Plan	1997
12.	Report of the Visiting Committee for the Departments of Physical Oceanogr. (PO) and Applied Ocean Physics and Engineering (AOPE)	1999
13.	US Clivar Southern Ocean and Climate Workshop Report	2001
14.	Guest Editor, Oceanography 18(4); December 2005	
15.	U.S. CLIVAR Salinity Science Working Group, Boyer, Carton Chao, Gordon, Johnson, Lagerloef, Large, Riser, Schmitt. July 5, 2007. U.S. CLIVAR Report No. 2007-1, US CLIVAR Office, Washington, DC	2007

PUBLICATIONS (Peer Review):

- 268 Alessandro Silvano, Sarah Purkey, Arnold L. Gordon, Pasquale Castagno, Andrew Stewart, Stephen R. Rintoul, Annie Foppert, Kathryn L. Gunn, Laura Herraiz-Borreguero, Shigeru Aoki, Yoshihiro Nakayama, Alberto C. Naveira Garabato, Carl Spingys, Camille Hayatte Akhoudas, Jean-Baptiste Sallée, Casimir de Lavergne, E. Povl Abrahamsen, Andrew J. S. Meijers, Michael P. Meredith, Shenjie Zhou, Takeshi Tamura, Kaihe Yamazaki, Kay, I. Ohshima, Pierpaolo Falco, Giorgio Budillon, Tore Hattermann, Markus A. Janout¹⁸, Pedro Llanillo, Melissa M. Bowen, Elin Darelius, Svein Østerhus, Keith Nicholls, Craig Stevens, Denise Fernandez, Laura Cimoli, Stanley S. Jacobs, Adele K. Morrison, Andrew Hogg, F. Alexander Haumann, Ali Mashayek, Zhaomin Wang, Rodrigo Kerr, Guy D. Williams and Wong San Lee (2023) "Observing Antarctic Bottom Water in the Southern Ocean". *Frontiers in Marine Science* xxx
- 267 Miller, Una. K., Christopher J. Zappa, Arnold L. Gordon, Seung Tae Yoon, Craig Stevens, and Won Sang Lee (2023) "High Salinity Shelf Water production rates in Terra Nova Bay, Ross Sea from high-resolution salinity observations", *Nature Communications*. xxxx.
- 266 Mingting Li, Ziyang Cao, Arnold L. Gordon, Fei Zheng, Dongxiao Wang (2023) Roles of the Indo-Pacific subsurface Kelvin waves and volume transport in prolonging the triple-dip 2020-2023 La Niña. *Environmental Research Letters* doi. 10.1088/1748-9326/acfccc.
- 265 Bohman, Shannon M. and Arnold L. Gordon (2023) Role of the Dipole Mode Index in governing the freshwater content within the Bay of Bengal summer Pycnocline. *Deep-Sea Research Part I*, 200(104154). <https://doi.org/10.1016/j.dsr.2023.104154>.
- 264 Gruenburg, Laura. K., Arnold L. Gordon, Andreas M. Thurnherr (2023) Indonesian Throughflow Partitioning Between Leeuwin and South Equatorial Currents. *Jour Phys Oceanogr.*, 53(9):2159-2170; <https://doi.org/10.1175/JPO-D-22-0205.1>
- 263 Bowen, Melissa M., Denise Fernandez, Arnold L. Gordon, Bruce Huber, Pasquale Castagno, Pierpaolo Falco, Giorgio Budillon, Kathryn L. Gunn, Aitana Forcen-Vazquez (2023) Tides regulate the flow and density of Antarctic Bottom Water from the western Ross Sea. *Sci Rep* 13, 3873 (2023). <https://doi.org/10.1038/s41598-023-31008-w>
- 262 Bailey, S. T., Jones, C. S., Abernathey, R. P., Gordon, A. L., and Yuan, X. (2023): Water mass transformation variability in the Weddell Sea in ocean reanalyses, *Ocean Sci.*, 19(2), 381–402, <https://doi.org/10.5194/os-19-381-2023>, 2023.
- 261 Bingham, F. M., Brodnitz, S. K., & Gordon, A. L. (2023). Seasonal and interannual variability of the subtropical South Indian Ocean sea surface salinity maximum. *Journal of Geophysical Research: Oceans*, 128, e2022JC018982. <https://doi.org/10.1029/2022JC018982>
- 260 Gordon, A.L. (2022) How did I get from There to Here? *AGU Perspectives of Earth and Space Scientists*, 3. doi:10.1029/2022CN000159
- 259 Edmo J. D. Campos, Arnold L. Gordon, Georgenes Cavalcante, Björn Kjerfve, Mohamed Abouleish (2022) "Impacts of the Red Sea and Persian Gulf on the Northern Indian Ocean in Numerical Simulations". *Ocean and Coastal Research*, V70:e22050 <http://doi.org/10.1590/2675-2824070.22019ejdc>.
- 258 Bohman, S.M. and Gordon, A.L. (2022). Mixed layer evolution in high and low sea level anomaly features in the Bay of Bengal. *Dynamics of Atm and Ocean*, vol.100 <https://doi.org/10.1016/j.dynatmoce.2022.101335>
- 257 Weiss, T. L., Linsley, B. K., Gordon, A.L., Rosenthal, Y., & Dannenmann-DiPalma, S. (2022). Constraints on marine isotope stage 3 and 5 sea level from the flooding history of the Karimata Strait in Indonesia. *Paleoceanography and Paleoclimatology*, 37, e2021PA004361. <https://doi.org/10.1029/2021PA004361>

- 256 Kannad, A., Goodkin, N. F., Samanta, D., Murty, S. A., Ramos, R. D., Smerdon, J. E., & Gordon, A. L. (2022). Drivers of coral reconstructed salinity in the South China Sea and Maritime Continent: The influence of the 1976 Indo-Pacific climate shift. *Journal of Geophysical Research: Oceans*, 127, e2021JC017787. <https://doi.org/10.1029/2021JC017787>
- 255 Herron, A.J., Bohman, S.M., Gordon, A.L., (2022) Freshwater transport by eddies within the Bay of Bengal's central axis, *Deep-Sea Research Part I*, doi: <https://doi.org/10.1016/j.dsr.2022.103770>.
- 254 Mingting Li, Huijie Xue, Jun Wei, Linlin Liang, Arnold L. Gordon, Song Yang (2021) The Role of the Mindoro-Sibutu Pathway on the South China Sea Multi-layer Circulation. *Journal of Physical Oceanography*, 51(9):2727-2782, doi 10.1175/JPO-D-20-0165.1.
- 253 Weiss, Thomas L., Braddock K Linsley, Arnold L. Gordon (2021) Pacific North Equatorial Current Bifurcation Latitude and Kuroshio Current Shifts Since the Last Glacial Maximum Inferred from a Sulu Sea Thermocline Reconstruction. *Quaternary Science Reviews*. 264 (2021) 106999 <https://doi.org/10.1016/j.quascirev.2021.106999>
- 252 Emily Shroyer, Ph.D.; Amit Tandon; Debasis Sengupta; Harindra J.S. Fernando; Andrew J. Lucas; J. Thomas Farrar; Rajib Chattopadhyay; Simon de Szoeko; Maria Flatau; Adam Rydbeck; Hemantha Wijesekera; Michael McPhaden; Hyodae Seo; Aneesh Subramanian; R Venkatesan; Jossia Joseph; S. Ramsundaram; Arnold L. Gordon; Shannon M. Bohman; Jaynise Perez; Iury Simoes-Sousa; Steven R. Jayne; Robert E. Todd; G.S. Bhat; Matthias Lankhorst; Tamara Schlosser; Katherine Adams; S.U.P Jinadasa; Manikandan Mathur; M. Mohapatra; E. Pattabhi Rama Rao; A. K. Sahai; Rashmi Sarma; Craig Lee; Luc Rainville; Deepak Cherian; Kerstin Cullen; Luca R. Centurioni; Verena Hormann; Jennifer MacKinnon; Uwe Send; Arachaporn Anutaliya; Amy Waterhouse; Garrett S. Black; Jeremy A. Dehart; Kaitlyn M. Woods; Edward Creegan; Gad Levy; Lakshmi H Kantha; Bulusu Subrahmanyam (2021) Bay of Bengal Intraseasonal Oscillations and the 2018 Monsoon Onset, *BAMS* doi: <https://doi.org/10.1175/BAMS-D-20-0113.1>
- 251 Le Bel, D.A., Zappa, C. J., Budillon, G., Gordon, A. L. (2021) Salinity response to atmospheric forcing of the Terra Nova Bay polynya, Antarctica. *Antarctic Science*, 1-14. doi:10.1017/S0954102021000146. [2018 in google scholar]
- 250 Guo-Qing Jiang, Qinjian Jin, Jun Wei, Paola Malanotte-Rizzoli, Arnold L. Gordon, Mingting Li (2021) A Reduction in the Sea Surface Warming Rate in the South China Sea during 1999-2010. *Climate Dynamics* <https://doi.org/10.1007/s00382-021-05796-8>.
- 249 Li, Mingting, Dongliang Yuan, Arnold L. Gordon, Laura K. Gruenburg, Xiang Li, Rui Li, Xueli Yin, Ya Yang, Corry Corvianatie, Jun Wei and Song Yang (2021) A strong sub-thermocline intrusion of the North Equatorial Subsurface Current into the Makassar Strait in 2016-2017. *Geophysical Research Letters* 48, doi: 10.1029/2021GL092505.
- 248 Bowen, M. M., D. Fernandez, A. Forcen-Vazquez, A. L. Gordon, B.A. Huber, P. Castagno and P. Falco (2021) The role of tides in bottom water export from the western Ross Sea. *Sci Rep* 11, 2246. <https://doi.org/10.1038/s41598-021-81793-5>
- 247 Campos, Edmo; Vieira, Filipe; Cavalcante, Georgenes ; Kjerfve, Bjorn; Abouleish, Mohamed; Shahriar, Sakib; Mohamed, Reem; Gordon, Arnold (2020) Impacts of brine disposal from water desalination plants on the physical environment in the Persian/Arabian Gulf. *Environmental Research Communications* <https://doi.org/10.1088/2515-7620/abd0ed>

- 246 D. L. Volkov, S.-K. Lee, A. L. Gordon, M. Rudko, (2020) Unprecedented reduction and quick recovery of the South Indian Ocean heat content and sea level in 2014–2018. *Sci. Adv.* **6**, eabc1151 (2020).
- 245 Chen, Gengxin, Dongxiao Wang, Weiqing Han, Ming Feng, Fan Wang, Yuanlong Li, Ju Chen, A. L. Gordon (2020) The extreme El Niño events suppressing the intraseasonal variability in the eastern tropical Indian Ocean. *Journal of Physical Oceanography* **50**(08):2359-2372, doi 10.1175/JPO-D-20-0041.1
- 244 Hu Dunxin, WANG Fan, SPRINTALL Janet, WU Lixin, RISER Stephen, CRAVATTE Sophie , GORDON Arnold, ZHANG Linlin, CHEN Dake, ZHOU Hui, ANDO Kentaro, WANG Jianing, LEE Jae-Hak11, HU Shijian, WANG Jing, ZHANG Dongxiao, FENG Junqiao, LIU Lingling, VILLANOY Cesar, KALUWIN Chalapan, QU Tangdong, MA Yixin (2020) Review on observational studies of western tropical Pacific Ocean circulation and climate. *Journal of Oceanology and Limnology*, **38**(4):906-929 doi: 10.1007/s00343-020-0240-1
- 243 Campos, E.J.D., Gordon, A.L., Kjerfve, B., Vieira, F., Cavalcante, G. (2020) Freshwater budget in the Persian (Arabian) Gulf and exchanges at the Strait of Hormuz. *PLoS ONE* **15**(5): e0233090. <https://doi.org/10.1371/journal.pone.0233090>
- 242 Li, M., Gordon, A.L., Gruenburg, L. K., Wei, J., Yang, S. (2020) Interannual to decadal response of the Indonesian Throughflow vertical profile to Indo-Pacific forcing, *Geophysical Research Letters* **47**, <https://doi.org/10.1029/2020GL087679>
- 241 Gordon, A. L., Huber, B. A., & Abrahamsen, E. P. (2020). Interannual variability of the outflow of Weddell Sea Bottom Water. *Geophysical Research Letters*, **47**, e2020GL087014. <https://doi.org/10.1029/2020GL087014>
- 240 Shroyer, E., A. L. Gordon, G. S. Jaeger, M. Freilich, A. Waterhouse, J. T. Farrar, VSS Sarma Vedula, R. Venkatesan, R. Weller, J.Moum, A. Mahadevan (2020) Upper Layer Thermohaline Structure of the Bay of Bengal during the 2013 Northeast Monsoon. *Deep Sea Research II*, special issue on the Bay of Bengal. <https://doi.org/10.1016/j.dsr2.2019.07.018>
- 239 Jiang, G.-Q., Wei, J., Malanotte-Rizzoli, P., Li, M., & Gordon, A. L. (2019). Seasonal and interannual variability of the subsurface velocity profile of the Indonesian Throughflow at Makassar Strait. *Journal of Geophysical Research: Oceans*, **124**. <https://doi.org/10.1029/2018JC014884>
- 238 V.Hormann, L.Centurioni, A.L.Gordon (2019) Freshwater Export Pathways from the Bay of Bengal. *Deep Sea Research II*, special issue on the Bay of Bengal. <https://doi.org/10.1016/j.dsr2.2019.104645>
- 237 F. Bingham, J. Busecke, A. L. Gordon (2019) Variability of the South Pacific Subtropical Surface Salinity Maximum. *Journal of Geophysical Research Oceans* **124**, <https://doi.org/10.1029/2018JC014598>.
- 236 Abrahamsen, E. P., A.J. S. Meijers, K.L. Polzin, A.C. Naveira Garabato, B.A. King, Y. L. Firing, Jean-Baptiste Salle, K. L. Sheen, A. L. Gordon, B. A. Huber, M. P. Meredith (2019) Stabilization of dense Antarctic water supply to the Atlantic Ocean overturning circulation. *Nature Climate Change*. <https://doi.org/10.1038/s41558-019-0561-2>.
- 235 Li, M., J.Wei, D.Wang, A.L.Gordon, S.Yang, P.Malanotte-Rizzoli, G-Q. Jiang (2019) Exploring the importance of the Mindoro–Sibutu pathway to the upper-layer circulation of the South China Sea and the Indonesian Throughflow. *Journal of Geophysical Research Oceans: Recent Progresses in Oceanography and Air-Sea Interactions in Southeast Asian Archipelago*. **124**, <https://doi.org/10.1029/2018JC014910>.

- 234 Janet Sprintall, Arnold L Gordon, Susan E. Wijffels, Ming Feng, Shijian Hu, Ariane Koch-Larrouy, Helen E. Phillips, Dwiyoga Nugroho, Asmi Napitu, Kandaga Pujiana, R Dwi Susanto, Bernadette M. Sloyan, Dongliang Yuan, Nelly Florida Riama, Siswanto Siswanto, Anastasia Kuswardani, Zainal Arifin, Hui Zhou, Taira Nagai, Joseph Kojo Ansong, Romain Bourdalle-Badie, Jerome Chanut, Florent Lyard, Brian K Arbic, Andri Ramdhani, Agus Setiawan (2019) Detecting change in the Indonesian Seas. *Front. Mar. Sci.* | doi: 10.3389/fmars.2019.00257.
- 233 Nadya Vinogradova, Tong Lee, Jacqueline Boutin, Kyla Drushka, Severine Fournier, Roberto Sabia, Detlef Stammer, Eric Bayler, Nicolas Reul, Arnold Gordon, Oleg Melnichenko, Laifang Li, Eric Hackert, Matthew Martin, Nicolas Kolodziejczyk, Audrey Hasson, Shannon Brown, Sidharth Misra, Eric Lindstrom (2019) Satellite Salinity Observing System: Recent Discoveries and the Way Forward. *Frontiers in Marine Science*, section Ocean Observation. doi: 10.3389/fmars.2019.00243.
- 232 Napitu, A., K. Pujiana, A.L.Gordon (2019) The Madden-Julian Oscillation's Impact on the Makassar Strait Surface Layer Transport. *Journal of Geophysical Research Oceans: Recent Progresses in Oceanography and Air-Sea Interactions in Southeast Asian Archipelago*. 124, 3538–3550. <https://doi.org/10.1029/2018JC014729>
- 231 Cheon, W-G and A.L.Gordon (2019) Open-ocean polynyas and deep convection in the Southern Ocean, *Nature Scientific Reports*, doi: 10.1038/s41598-019-43466-2
- 230 Lee, Tong, Séverine Fournier, Arnold L. Gordon, Janet Sprintall (2019) Maritime Continent Water Cycle Regulates Low-latitude Chokeypoint of Global Ocean Circulation, *Nature Communications*, 10.1038/s41467-019-10109-z.
- 229 Pujiana, Kandaga, Michael J. McPhaden, Arnold L. Gordon, Asmi M. Napitu (2019) Unprecedented response of Indonesian throughflow to anomalous Indo-Pacific climatic forcing in 2016. *Journal of Geophysical Research Oceans: Recent Progresses in Oceanography and Air-Sea Interactions in Southeast Asian Archipelago*. 124, 3737–3754. <https://doi.org/10.1029/2018JC014574>.
- 228 Gordon, Arnold L., Asmi Napitu, Bruce A. Huber, Laura K. Gruenburg, Kandaga Pujiana, Teguh Agustiadi, Anastasia Kuswardani, Nurman Mbay, Agus Setiawan (2019) Makassar Strait Throughflow Seasonal and Interannual Variability, an Overview. *Journal of Geophysical Research Oceans: Recent Progresses in Oceanography and Air-Sea Interactions in Southeast Asian Archipelago*. 124, 3724–3736, <https://doi.org/10.1029/2018JC014502>
- 227 Murty, S. A., Goodkin, N. F., Wiguna, A. A., & Gordon, A. L. (2018). Variability in coral-reconstructed sea surface salinity between the northern and southern Lombok Strait linked to East Asian winter monsoon mean state reversals. *Paleoceanography and Paleoclimatology*, 33. <https://doi.org/10.1029/2018PA003387>
- 226 Gruenburg, L.K., and A.L. Gordon (2018) Variability in Makassar Strait heat flux and its effect on the eastern tropical Indian Ocean. *Oceanography* 31(2), Guest Editors: Paul J. Durack, Lars H. Smedsrud Alex Sen Gupta <https://doi.org/10.5670/oceanog.2018.220>.
- 225 Li, Mingting, Arnold L. Gordon, Jun Wei, Laura K. Gruenburg, and Guoqing Jiang (2018) Multi-decadal time series of the Indonesian Throughflow. *Dynamics of Atmospheres and Oceans*. Volume 81: 84-95, <https://doi.org/10.1016/j.dynatmoce.2018.02.001>
- 224 Purkey, Sarah G., William M. Smethie Jr., Geoffrey Gebbie, Arnold L. Gordon, Rolf E. Sonnerup, Mark J. Warner, John L. Bullister (2018) A Synoptic View of the Ventilation and Circulation of Antarctic Bottom Water from Chlorofluorocarbons and Natural Tracers. *Annual. Rev. Mar. Sci.* 2018. 10(1): 503–527 <https://doi.org/10.1146/annurev->

- marine- 121916- 063414
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Significant Other Publications:

65. Gordon, A.L., Shroyer, E.L., Fernando, H.J.S., Tandon, A., Mathur, M., Priyantha Jinadasa, S.U., (2020) Introduction to "Atmosphere-Ocean Dynamics of Bay of Bengal" **Volume 2**, Deep-Sea Research Part II, <https://doi.org/10.1016/j.dsr2.2019.104670>.
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