

TOSHIAKI SHINODA
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Education

Ph.D. in Oceanography, University of Hawaii, Department of Oceanography,
December 1993.

Academic and Professional Experience

Associate Professor. Texas A&M University-Corpus Christi, 2013 - present.
Oceanographer. Naval Research Laboratory, 2007 - 2013.
Research Scientist III. Climate Diagnostics Center, Cooperative Institute for Research
in Environmental Sciences, University of Colorado. 2007 - 2007.
Research Scientist II. Climate Diagnostics Center, Cooperative Institute for Research
in Environmental Sciences, University of Colorado. 1998 - 2007.
Research Scientist I. Climate Diagnostics Center, Cooperative Institute for Research
in Environmental Sciences, University of Colorado. 1995 - 1997.
Postdoctoral Research Associate. University of Hawaii, Department of
Oceanography and Joint Institute for Marine and Atmospheric Research. 1994 -
1995.
Research Assistant. University of Hawaii, Department of Oceanography and Joint
Institute for Marine and Atmospheric Research. January 1989 - 1993.

Publications

Peer-Reviewed Journal

Shinoda, T., W. Han, L. Zamudio, X. Feng, 2019: Influence of atmospheric rivers on
the Leeuwin Current system. *Climate Dynamics*, (revised)
Guo, G., T. Shinoda, B. Guan, D.E. Waliser, E.K.M. Chang, 2019: Statistical
Relationship between Atmospheric Rivers, Extratropical Cyclones, and
Anticyclones. *J. Climate* (revised).
Shinoda, T., L. Zamudio, Y. Guo, E. J. Metzger, C. Fairall, 2019: Ocean variability
and air-sea fluxes produced by atmospheric rivers. *Scientific Reports*,
<https://doi.org/10.1038/s41598-019-38562-2>
Zhang, L., W. Han, K. B. Karnauskas, G. A. Meehl, A. Hu, N. Rosenbloom, T.
Shinoda 2019: Indian Ocean Warming Trend Reduces Pacific Warming
Response to Anthropogenic Greenhouse Gases: An Interbasin Thermostat
Mechanism. *Geophys. Res. Lett.*, DOI: 10.1029/2019GL084088
Feng, X., T. Shinoda, 2019: Air-sea flux variability in the southeast Indian Ocean and
its relation with Ningaloo Niño. *Frontiers in Marine Science – Special issue*
“Advances in Understanding Marine Heatwaves and Their Impacts” 6:266. doi:
10.3389/fmars.2019.00266.

- Hermes, J. C., and Co-authors 2019: A sustained ocean observing system in the Indian Ocean for climate related scientific knowledge and societal needs. *Frontiers in Marine Science* <https://doi.org/10.3389/fmars.2019.00355>
- Pei, S., T. Shinoda, A. Soloviev, R.-C. Lien, 2018: Upper ocean response to the atmospheric cold pools associated with the Madden-Julian Oscillation. *Geophys. Res. Letters*, <https://doi.org/10.1029/2018GL077825>.
- Fu, J.-X., W. Wang, Y. Zhu, H.-L. Ren, X. Jia, T. Shinoda, 2018: Impacts of Different Cumulus Schemes on the Pathways Through Which SST Feedbacks to the Madden-Julian Oscillation. *J. Climate*, 31, 5559-5579. DOI: 10.1175/JCLI-D-17-0432.1
- Zhang, L., W. Han, Y. Li, T. Shinoda 2018: Mechanism for generation and development of Ningaloo Nino. *J. Climate*. <https://doi.org/10.1175/JCLI-D-18-0175.1>
- Fu, J., W. Wang, H. L. Ren, X. Jia, T. Shinoda, 2018: Three different downstream fates of the boreal-summer MJOs on their passages over the Maritime Continent. *Climate Dynamics*. doi.org/10.1007/s00382-017-3985-2.
- Shinoda, T., W. Han, L. Zamudio, R.-C. Lien, M. Katsumata, 2017: Remote Ocean Response to the Madden-Julian Oscillation during the DYNAMO Field Campaign: Impact on Somali Current System and the Seychelles-Chagos Thermocline Ridge. *Atmosphere- Special Issue on "Madden-Julian Oscillation"*, 8(9)(171).
- Fu, J., W. Wang, T. Shinoda., H.-L. Ren, X.L. Jia, 2017: Toward Understanding the Diverse Impacts of Air-Sea Interactions on MJO Simulations. *JGR-Oceans*, 122(11), 8855-8875.
- Guo, Y., Shinoda, T., Lin, J.-L., Chang, E.K.M. 2017: Variations of the Mid-latitude Storm Track Activity associated with the Madden-Julian Oscillation. *J. Climate*. [dx.doi.org/10.1175/JCLI-D-16-0513.1](https://doi.org/10.1175/JCLI-D-16-0513.1)
- Li, Y., Han, W., Wang, W., Ravichandran, M., Lee, T., T. Shinoda, 2017: Bay of Bengal Salinity Stratification and Indian Summer Monsoon Intraseasonal Oscillation: 2. Impact on SST and convection. *J. Geophysical Research-Oceans*, DOI: 10.1002/2017JC012692.
- Li, Y., Han, W., Ravichandran, M., Wang, W., T. Shinoda, Lee, T. 2017: Bay of Bengal Salinity Stratification and Indian Summer Monsoon Intraseasonal Oscillation: 1. Intraseasonal Variability and Causes. *Geophysical Research-Oceans*. DOI: 10.1002/2017JC012691
- Shinoda, T., W. Han, T. Jensen, L. Zamudio, E.J. Metzger, R.-C. Lien, 2016: Impact of the Madden-Julian Oscillation on the Indonesian Throughflow during the CINDY/DYNAMO field campaign. *J. Climate*, 29, 6085-6108.
- Jensen, T. G., T. Shinoda, S. Chen, S., M. Flatau, 2015: Ocean response to CINDY/DYNAMO MJOs in air-sea coupled COAMPS. *J. Meteorol. Soc. Jpn, Special Issue on "The coordinated international field campaign on the Madden-Julian Oscillation"*. 93A, 157–178, doi:10.2151/jmsj.2015-049
- Chen, S., M. Flatau, T. G. Jensen, T. Shinoda, J. Cummings, J. M. Schmidt, P. W. May, M. Liu, P. E. Ciesielski, C. Fairall, R.-C. Lien, J. Moum, D. B. Baranowski, N.-H. Chi, S. de Szoeke, and J. Edson, 2015: A Study of

- CINDY/DYNAMO MJO Suppressed Phase. *J. Atmos. Sci.*, 72, 3755–3779. doi: <http://dx.doi.org/10.1175/JAS-D-13-0348.1>.
- Chen, G., W. Han, Y. Li, D. Wang, T. Shinoda, 2015: Intraseasonal Variability of Upwelling in the Equatorial Eastern Indian Ocean. *J. Geophys. Res.-Oceans*. doi: 10.1002/2015JC011223.
- Lin, J.-L., T. Qian, T. Shinoda, and S. Li, 2015: Is the Tropical Atmosphere in Convective Quasi-Equilibrium?. *J. Climate*, 28, 4357–4372. doi: <http://dx.doi.org/10.1175/JCLI-D-14-00681.1>
- Li, Y., Han, W., Shinoda, T., Ravichandran, M., Wang, J.-W. 2014: Revisiting the Wintertime Intraseasonal SST Variability in the Tropical South Indian Ocean: Impact of the Ocean Interannual Variation. *J. Phys. Oceanogr.*, 44(7), 1886-1907.
- Lin, J.-L., T. Qian, T. Shinoda, T. 2014: Stratocumulus Clouds in Southeastern Pacific Simulated by Seven CMIP5/CFMIP Global Climate Models. *J. Climate*, 27(8), 3000-3022.
- Li, Y., W. Han, T. Shinoda, C. Wang, R.-C. Lien, J.N. Moum, and J.W. Wang, 2013: Effects of Solar Radiation Diurnal Cycle on the Tropical Indian Ocean Mixed Layer Variability during Wintertime Madden-Julian Oscillation Events. *J. Geophys. Res.*, DOI:10.1002/jgrc.20395.
- Hung, M.-P., J-L Lin, W. Wang, D. Kim, T. Shinoda, and S. J. Weaver 2013: MJO and Convectively Coupled Equatorial Waves Simulated by CMIP5 Climate Models *J. Climate*, 26, 6185-6214.
- Shinoda, T., T. Jensen, M. Flatau, and S. Chen 2013: Surface wind and upper ocean variability associated with the Madden-Julian Oscillation simulated by the Coupled Ocean/Atmosphere Mesoscale Prediction System (COAMPS), *Mon. Wea. Rev.*, 141, 2290-2307.
- Shinoda, T., Jensen, M. Flatau, S. Chen, W. Han, C. Wang 2013: Large-scale oceanic variability during the CINDY/DYNAMO field campaign from satellite observations. *Remote Sensing –Special issue on Observing the Ocean’s Interior from Satellite*, 5, 2072-2092.
- Shinoda, T., W. Han, E. J. Metzger, H. E. Hurlburt, 2012: Seasonal Variation of the Indonesian Throughflow in Makassar Strait. *J. Phys. Oceanogr.*, 42, doi:10.1175/JPOD-11-0120.1.
- Zheng, Y., J-L Lin, and T. Shinoda 2012: The Equatorial Cold Tongue Simulated by IPCC AR4 Coupled GCMs: Upper Ocean Heat Budget and Feedback Analysis, *J. Geophys. Res. Oceans*, 117 C05024 doi:10.1029/2011JC007746
- Shinoda, T, 2012: Observation of First and Second Baroclinic Mode Yanai Waves in the Ocean., *Q. J. R. Meteorol. Soc.*, 137, DOI:10.1002/qj.968.
- Shinoda, T, H. E. Hurlburt, E. J. Metzger, 2011: Anomalous Tropical Ocean Circulation associated with La Nina Modoki., *J. Geophys. Res. Oceans*, 116, doi:10.1029/2011JC007304.
- Zheng, Y., T. Shinoda, J-L Lin, G. N. Kiladis, 2011: Sea Surface Temperature Biases under the Stratus Cloud Deck in the Southeast Pacific Ocean in 19 IPCC AR4 Coupled General Circulation Models., *J. Climate*, 24, 4139-4164.

- Hurlburt, H.E., E.J. Metzger, J. Sprintall, S.N. Riedlinger, R.A. Arnone, T. Shinoda, and X. Xu 2011: Circulation in the Philippine Archipelago simulated by 1/12° and 1/25° global HYCOM and EAS NCOM. *Oceanography* 24(1):2847.
- Han, W, G. A. Meehl, B. Rajagopalan, J. T. Fasullo, A. Hu, J-L Lin, W. Large, J-W Wang, X-W Quan, L. L. Trenary, A. Wallcraft, T. Shinoda, S. Yeager 2010: Indian Ocean Sea Level Change in a Warming Climate., *Nature Geoscience* 546-550, DOI:10.1038/NGEO901.
- Shinoda, T., 2010: Observed Dispersion Relation of Yanai Waves and 17-Day Tropical Instability Waves in the Pacific Ocean. *Scientific Online Letters on the Atmosphere*, 6, 17-20, doi:10.2151/sola.2010-005 .
- Lin, J-L., T. Shinoda, T. Qian, W. Han, P. Roundy, and Y. Zheng, 2010: Intraseasonal Variation of Winter Precipitation over the Western United States Simulated by 14 IPCC AR4 Coupled GCMs. *J. Climate*, 23, 3094-3119.
- Zheng, Y., T. Shinoda, G. N. Kiladis, J-L Lin, E. J. Metzger, H. E. Hurlburt, and B. S. Giese 2010: Upper-ocean processes under the stratus cloud deck in the southeast Pacific Ocean. *J. Phys. Oceanogr.*, 40, 103-120.
- Shinoda, T., G. Kiladis, and P. Roundy 2009: Statistical representation of equatorial waves and tropical instability waves in the Pacific Ocean. *Atmospheric Research-Special Issue on Ocean-Atmosphere Coupling.*, 94, 37-44.
- Shinoda, T, and J-L. Lin, 2009: Interannual variability of the upper ocean in the southeast Pacific stratus cloud region. *J. Climate*, 22, 5072-5087.
- Lin, J-L., T. Shinoda, B. Liebmann, T. Qian, W. Han, P. Roundy, J. Zhou, and Y. Zheng, 2009: Intraseasonal Variability Associated with South American Monsoon Simulated by 14 IPCC AR4 Coupled GCMs. *Mon. Wea. Rev.*, 137, 2931-2954.
- Shinoda, T., P. Roundy, and G. Kiladis 2008: Variability of intraseasonal Kelvin waves in the equatorial Pacific Ocean. *J. Phys. Oceanogr.*, 38, 921-944.
- Han, W, T. Shinoda, L. Fu, and J. P. McCreary 2006: Impact of atmospheric intraseasonal oscillation on the Indian Ocean dipole. *J. Phys. Oceanogr.*, 36, 670-690.
- Shinoda, T, 2005: Impact of diurnal cycle of solar radiation on intraseasonal SST variability in the western equatorial Pacific. *J. Climate.*, 18, 2628-2636.
- Shinoda, T, and W. Han 2005: Influence of Indian Ocean dipole on atmospheric subseasonal variability. *J. Climate.*, 18, 3891-3909.
- Shinoda, T., H. H. Hendon, and M. A. Alexander, 2004: Surface and subsurface dipole variability in the Indian Ocean and its relation with ENSO. *Deep Sea Res.*, 51, 619-635
- Shinoda, T., M. A. Alexander, and H. H. Hendon, 2004: Remote response of the Indian Ocean to interannual SST variations in the tropical Pacific. *J. Climate*, 17, 362-372.
- Shinoda, T., and H. H. Hendon, 2002: Rectified wind forcing and latent heat flux produced by the Madden-Julian oscillation. *J. Climate*, 15, 3500-3508.
- Shinoda, T., and H. H. Hendon, 2001: Upper ocean heat budget in response to the Madden-Julian Oscillation in the western equatorial Pacific. *J. Climate*, 14, 4147-4165.

- Shinoda, T., H. H. Hendon, and J. Glick 1999: Intraseasonal surface fluxes in the tropical western Pacific and Indian Oceans from NCEP reanalyses. *Mon. Weath. Rev.*, 127, 1685-1702.
- Shinoda, T., and H. H. Hendon 1998: Mixed layer modeling of intraseasonal variability in the tropical western Pacific and Indian Oceans. *J. Climate.*, 11, 2668-2685.
- Shinoda, T., H. H. Hendon, and J. Glick 1998: Intraseasonal variability of surface fluxes and sea surface temperature in the tropical western Pacific and Indian Oceans. *J. Climate.*, 11, 1685-1702.
- Shinoda, T., and R. Lukas 1995: Lagrangian mixed layer modeling of the western equatorial Pacific. *J. Geophys. Res.*, 100, 2523-2541.

Online Document

- Shinoda, T., (2019). Intra-seasonal air-sea coupling: Madden-Julian Oscillation and Monsoon Intra-seasonal Oscillation. *IndOOS Review*, Chapter 13.
<http://www.clivar.org/indoos-decadal-review-2006-2016>

Technical Report

- Shinoda, T., S. DeCarlo, S. Kennan, R. Lukas, F. Santiago-Mandujano, Jeffrey Snyder 1995: Shipboard Measurements From R/V Moana Wave During TOGA COARE Enhanced Monitoring Cruises. SOEST Tech. Rept. 95-07, School of Ocean and Earth Science and Technology, University of Hawaii, 201 pp (available at http://www.soest.hawaii.edu/COARE/em/data_rep_info.html).

Citations: <https://scholar.google.com/citations?user=PdjV64gAAAAJ&hl=en>

Support from External Funding

Funded projects

- Principal Investigator: "Upper ocean processes in the Maritime Continent and their impact on the air-sea interaction and MJO predictability", September 2017 - August 2020, funded by NOAA.
- Principal Investigator: "Investigation of Leeuwin Current and Southern Indian Ocean Variability", March 2017 - February 2020, funded by NASA.
- Principal Investigator: "Collaborative Research: Investigation of Ningaloo Niño: the role of Madden-Julian Oscillation and Leeuwin current variability", February 2017 - January 2020, funded by NSF.
- Principal Investigator: "Improvement of MJO simulation in NCEP Climate Forecast System: Upper ocean and air-sea coupled processes", August 2015-July 2019, funded by NOAA.
- Principal Investigator: "Moisture budget and air-sea interaction associated with atmospheric rivers in the northeast Pacific: Observations and climate model simulations". May 1, 2014 - April 30, 2018, funded by NSF.
- Principal Investigator: "Upper ocean processes associated with the Madden-Julian oscillation in the Indian Ocean", July 2011-May 2014, funded by NOAA.

Principal Investigator: "Understanding atmosphere-ocean coupled processes in the southeast Pacific" August 2010-July 2013, funded by NOAA.

Principal Investigator: "The influence of atmosphere-ocean interaction on MJO development and propagation", January 2010-December 2014, funded by ONR.

Principal Investigator: "Collaborative Research: Structure and Mechanisms of CGCMs: Systematic Biases in Southeast Pacific", August 2008-July 2011, funded by NSF.

Principal Investigator: "Upper ocean processes under the stratocumulus cloud deck in the southeast Pacific", March 2005-September 2009, funded by NSF.

Principal Investigator: "Roles of oceanic intraseasonal variability in the El Nino Southern Oscillation and its prediction", March 2004-February 2007, funded by NOAA

Principal Investigator: "Can phytoplankton change SST and ocean circulation?", University of Colorado, June 2006-May 2007, funded by the CIRES Innovative Research Program

Principal Investigator: "Oceanic response to Madden-Julian Oscillation and its relation to El Nino Southern Oscillation", 2001-2003, funded by NOAA.

Co-Principal Investigator: "Coupling of Convection, Surface Fluxes and Warm Pool Mixed Layer (PI: Harry Hendon)", 1997-1999 funded by NOAA.

Recent Award

Excellence in Research and Scholarly Activity Award 2018-2019 (Texas A&M University-Corpus Christi)

Recent Scientific Conference/Meeting/Seminar Presentations (2013-2019) (Selected)

Shinoda, T., Fu, J.X., Lien, R.-C., Pei, S., Seo, H., Soloviev, A., Wang, W., " Climate Process Team: Improvement of ocean component of NOAA Climate Forecast System relevant to MJO simulations" AGU Fall Meeting, San Francisco. (December 2019).

Pei, S., Shinoda, T., "Substantial SST decrease in the Banda Sea associated with the Madden-Julian Oscillation during the winter of 2015" AGU Fall Meeting, San Francisco. (December 2019).

Tamasiunas, M. N., Shinoda, T., Zamudio, L., " Intraseasonal variability of the Indonesian Throughflow associated with the Madden-Julian Oscillation" AGU Fall Meeting, San Francisco. (December 2019).

Zhang, L, Han, W., Karnauskas, K. B., Gerald A Meehl, G. A., Hu, A, Rosenbloom, N. A., Shinoda, T., "Indian Ocean Warming Trend Reduces Pacific Warming Response to Anthropogenic Greenhouse Gases: An Interbasin Thermostat Mechanism" AGU Fall Meeting, San Francisco. (December 2019).

Shinoda, T., Han, W., Zamudio, L., Feng, X., "Influence of Atmospheric Rivers on the Leeuwin Current System," AGU Fall Meeting, Washington DC. (December 2018).

Pei, S., Shinoda, T., "Evaluation of Upper Ocean Vertical Mixing Parameterizations in simulating diurnal and intraseasonal SST variability associated with the

- Madden-Julian Oscillation," AGU Fall Meeting, Washington DC. (December 2018).
- Tamasian, M. N., Shinoda, T., "Seasonal and intraseasonal ocean variability in the Indonesian Seas from the high resolution ocean reanalysis," AGU Fall Meeting, Washington DC. (December 2018).
- Espericueta, S., Shinoda, T., "Impact of Loop Current and Eddy Shedding on Sea Level along the Texas Coasts," SACNAS (Chicanos/Hispanics & Native Americans in Science) Meeting, San Antonio, Texas (October 2018).
- Shinoda, T., "Role of extratropical cyclone and air-sea interaction in the development of atmospheric rivers" Scripps Institution of Oceanography, (May 2018) *Invited*
- Shinoda, T., "Intra-seasonal air-sea coupling: Madden-Julian Oscillation and Monsoon Intra-seasonal Oscillation," IndOOS Review Meeting, Jakarta, Indonesia. (March 2018). *Invited*
- Shinoda, T., Han, W., Zamudio, L., Lien, R.-C., Katsumata, M., "Remote ocean response to the Madden-Julian Oscillation during the DYNAMO field campaign: Impact on Somali Current system and thermocline ridge," AGU Ocean Sciences Meeting, Portland, Oregon. (February 2018).
- Feng, X., Shinoda, T., "Spatial and temporal variability of surface heat fluxes in the southeast Indian Ocean," AGU Ocean Sciences Meeting, AGU, Portland, Oregon. (February 2018).
- Pei, S., Shinoda, T., Soloviev, A., Lien, R.-C., "Upper ocean response to the atmospheric cold pools associated with the Madden-Julian Oscillation," AGU Ocean Sciences Meeting, AGU, Portland, Oregon. (February 2018).
- Guo, Y., Shinoda, T., Guan, B., Waliser, D., "Statistical Relationship between the Atmospheric River and Extratropical Cyclone," AMS Meeting, Austin, Texas. (January 2018).
- Shinoda, T., Zamudio, L., Guo, Y., "Ocean variability and air-sea fluxes produced by Atmospheric Rivers," AGU Fall Meeting, New Orleans, Louisiana. (December 2017).
- Shinoda, T., "The Madden-Julian oscillation and monsoon active-break phases, and their impact on the ocean," CLIVAR/GOOS Indian Ocean Panel Meeting, WCRP, Perth, Australia. (January 2017). *Invited*
- Shinoda, T., Han, W., Zamudio, L., Lien, R., "Impact of the Madden-Julian Oscillation on the low-latitude western boundary current variability in the Indian Ocean," AGU Meeting, San Francisco, CA. (December 2016).
- Fu, J., Wang, W., Shinoda, T., Ren, H., Jia, X., "Three Different Downstream Fates of the Boreal Summer MJOs on their Passages over the Maritime Continent," AGU Meeting, San Francisco, CA. (December 2016).
- Fu, J., Wang, W., Shinoda, T., "Diversified effects of air-sea interaction on shaping the MJO in nature and models," 20th AMS Conference of Air-Sea Interaction, Madison, WI. (August 2016).
- Fu, J., Wang, W., Shinoda, T., "Why Does Air-sea Coupling Have Diversified Impacts on MJO Simulation In Different Models: Sensitivity to Cumulus Parameterization?," AOGS Meeting, Beijing, China. (August 2016).
- Ridout, J., Shriver, J., Richman, J., Wallcraft, A., Flatau, M., Reynolds, C., Shinoda, T., Jensen, T., Chen, C., Barton, N., "Ocean Surface Current Effects in

- DYNAMO Hindcasts with the Navy Earth System Model," AMS 32nd Conference on Hurricanes and Tropical Meteorology, AMS, Puerto Rico. (April 2016).
- Shinoda, T., Ridout, J., Flatau, M., Reynolds, C., Jensen, T. G., "Large-scale Oceanic Variability associated with the Madden-Julian Oscillation during DYNAMO Predicted by a Global Coupled Model," AGU Ocean Sciences Meeting, New Orleans, Louisiana. (February 2016).
- Jensen, T. G., Chen, S., Flatau, M., Shinoda, T., "Ocean-Atmosphere Interaction during the 2011 DYNAMO MJOs in COAMPS Simulations," AMS Meeting, New Orleans, Louisiana. (January 2016).
- Flatau, M., Ridout, J., Reynolds, C., Shinoda, T., Chen, S., Schmidt, J., "The Interaction of Eastward Propagating Equatorial Modes with the Maritime Continent," AMS Meeting, New Orleans, Louisiana. (January 2016).
- Guo, Y., Shinoda, T., "Variations of the Mid-latitude Storm Track Activity in Association with the Madden-Julian Oscillation," AMS Meeting, New Orleans, Louisiana. (January 2016).
- Shinoda, T., Ridout, J., Flatau, M., Reynolds, C., "Prediction of Ocean Circulation Associated with the MJO during CINDY/DYNAMO by a Global Coupled Model," AGU Meeting, San Francisco. (December 2015).
- Flatau, M., Chen, S., Shinoda, T., "THE Interaction of Eastward Propagating Equatorial Modes with the Maritime Continent," AGU Meeting, San Francisco. (December 2015).
- Shinoda, T., "Prediction of ocean circulation during DYNAMO by a global coupled prediction system," CLIVAR/GOOS Indian Ocean Panel Meeting, Goa, India. (December 2015). *Invited*.
- Han, W., Li, Y., Shinoda, T., Wang, C., Ravichandran, M., Wang, J., "Revisiting the Processes That Determine Wintertime Intraseasonal SST Variability in the Thermocline Ridge of the Tropical South Indian Ocean," AGU Meeting, AGU, San Francisco. (December 2014). *Invited*
- Shinoda, T., "Upper Ocean Processes Associated with the Madden-Julian Oscillation in the Indian Ocean," NOAA Webinar, NOAA. (August 13, 2014). *Invited*
- Shinoda, T., Han, W., Jensen, T., Flatau, M., Chen, S., Li, Y., Wang, C., "Modeling of ocean variability during CINDY/DYNAMO," Progress of the MJO research through the field campaigns, JAMSTEC, Sapporo, Japan. (July 2014).
- Shinoda, T., Han, W., Zamudio, L., Jensen, T. G., Wang, C., "Simulation of the Remote Ocean Variability Produced by the MJO During the CINDY/DYNAMO Campaign," AOGS Meeting, Sapporo, Japan. (July 29, 2014).
- Lin, J., Qian, T., Shinoda, T., "Stratocumulus Clouds in Southeastern Pacific Simulated by CMIP5/CFMIP Global Climate Models," 7th International Scientific Conference on the Global Water and Energy Cycle, Hague, Netherland. (July 15, 2014).
- Jensen, T.G., Shinoda, T., Chen, S., Flatau, M., "Air-sea Interaction, Equatorial Dynamics and Mixed Layer Response in the Indian Ocean During DYNAMO," AGU Ocean Sciences Meeting, Honolulu, Hawaii. (February 2014).
- Shinoda, T., Han, W., Zamudio, L., Jensen, T., Wang, C., "Remote Ocean Response to the Madden-Julian Oscillation during the DYNAMO Field Campaign:

- Satellite Observations and Ocean Modeling," AGU Ocean Sciences Meeting, Honolulu, Hawaii. (February 2014).
- Li, Y., Han, W., Shinoda, T., Wang, C., "Wintertime Intraseasonal SST Variability in the Tropical South Indian Ocean: Impact of the Ocean Internal Variation," AGU Ocean Sciences Meeting, Honolulu, Hawaii. (February 2014).
- Jensen, T., Shinoda, T., Flatau, M., Chen, S., "Air-Sea Interaction and Ocean Response from COAMPS During DYNAMO," ONR Review. Monterey (September 2013). *Invited*
- Flatau, M., Chen, S., Shinoda, T., Jensen, T., "MJO Initiation and Atmosphere Ocean Interaction during DYNAMO," ONR Review. Monterey (September 2013). *Invited*
- Shinoda, T., Jensen, T., Flatau, M., Chen, S., "Upper Ocean Variability in the Indian Ocean associated with the MJO: Satellite observations and COAMPS experiments," ONR Review. Monterey (September 2013). *Invited*
- Shinoda, T., The large-scale context for the CINDY/DYNAMO field campaign: Surface wind and upper ocean variability. CLIVAR/GOOS Indian Ocean Panel Meeting, Lijiang, China. (July 2013). *Invited*
- Shinoda, T., Metzger, E. J., Han, W., Wang, C., "Anomalous circulation in the Indonesian Seas during the CINDY/DYNAMO field campaign," MJO Field Data and Science Workshop, Kona, Hawaii. (March 2013).
- Li, Y., Han, W., Shinoda, T., Wang, C., Lien, R.-C., Moum, J., Wang, J., "How Does Solar Diurnal Cycle Affect Intraseasonal SST During CINDY/DYNAMO Field Campaign?," MJO Field Data and Science Workshop, Kona, Hawaii. (March 2013).
- Shinoda, T., Jensen, T. G., Flatau, M., Chen, S., Han, W., Wang, C., "Migration of Seychelles-Chagos thermocline ridge (SCTR) during CINDY/DYNAMO Field Campaign," MJO Field Data and Science Workshop, Kona, Hawaii. (March 2013).
- Shinoda, T., "Observation of equatorially trapped waves in the ocean" University of Louisiana, (March 2013). *Invited*

Teaching

Coastal and Marine System, CMSS 6307, Texas A&M University-Corpus Christi

Physical Oceanography, ESCI 4360, Texas A&M University-Corpus Christi

Oceanography, ESCI 3351, Texas A&M University-Corpus Christi

Atmospheric Thermodynamics, ATSC 3306, Texas A&M University-Corpus Christi

Fundamentals of Physical Oceanography, ESCI 5350, Texas A&M University-Corpus Christi

Introduction to Physical Oceanography, ATOC 5051, PAOS, University of Colorado
(guest lecture)

Atmosphere, Weather and Climate, GEOC 407, Colorado School of Mines (guest lecture)

Professional Activities

Associate Editor: Journal of Geophysical Research-Oceans (2012-2015)

Panelist: WCRP/CLIVAR/GOOS Indian Ocean Region Panel (2012-2017)
(<http://www.clivar.org/organization/indian/about-us/members>)

US committee member: Second International Indian Ocean expedition (IIOE-2) Steering Committee (2020-present) (<https://web.who.edu/iioe2/>)

Member: Modeling Working Group in the DYNAMO (Dynamics of the Madden Julian Oscillation) program (http://www.eol.ucar.edu/projects/dynamo/model_wg.html)

Panelist: Proposal review panel (NASA)

Guest Editor: Ocean Science Journal (Springer) (2013)

Reviewer:

34 Journals: Journal of Climate, Journal of Atmospheric Science, Journal of Physical Oceanography, Monthly Weather Review, Journal of Geophysical Research-Oceans, Journal of Geophysical Research-Atmospheres, Quarterly Journal of the Royal Meteorological Society, Geophysical Research Letters, Nature-Scientific Reports, Climate Dynamics, Dynamics of Atmospheres and Oceans, Deep Sea Research, Journal of Marine Research, Ocean Modeling, Oceanography, International Journal of Climatology, Atmospheric Research, Journal of Marine Systems, Journal of Oceanography, Theoretical and Applied Climatology, Biogeosciences, Environmental Research Letters, SpringerPlus, Atmospheric Science Letters, Ocean Sciences, Scientific Online Letters on the Atmosphere, Remote Sensing, Symmetry, Ocean Dynamics, Global and Planetary Change, Journal of Meteorological Society of Japan, Journal of Terrestrial Atmospheric and Oceanic Sciences, Western Indian Ocean Journal of Marine Science, Chinese Journal of Oceanology and Limnology

Books: AGU monograph, The Global Monsoon System III (WMO), The Multi-Scale Global Monsoon System (WMO)

Proposals: NSF (Ocean Sciences, Climate Dynamics, Atmospheric Sciences), NOAA, NASA, NERC (UK), MNF (Australia), National Monsoon Mission (India)

Convener, Session chair in conferences: AGU Western Pacific Geophysics Meeting, AGU Ocean Sciences Meeting, AMS Meeting

University Service

Program Coordinator:

Atmospheric Science Program (2017- 2019)

Search Committee Chair

Professional Assistant Professor in Atmospheric Science (2018-2019)

Committee Member:

Steering Committee (2016-2019)

Library Liaison (2015-present)

CMSS recruiting committee (2016-present)

Academic Integrity Committee (2016-2019)