

Curriculum Vitae

James T. Potemra
University of Hawaii
Hawaii Institute of Geophysics and Planetology and
International Pacific Research Center
1680 East West Road, POST Bldg. 4th floor, Honolulu, HI 96822

1. Education

- 1998 Ph.D., Oceanography, University of Hawaii
- 1990 M.S., Oceanography, Florida State University
- 1986 B.S., Physics, Stevens Institute of Technology

2. Appointments

- 2012-pres. Associate Specialist with tenure, Hawaii Institute of Geophysics and Planetology (HIGP), University of Hawaii
- 2013-pres. Affiliate faculty, Hawaii Pacific University
- 2010-pres. Manager, Asia-Pacific Data Research Center (APDRC), IPRC, University of Hawaii
- 2008-2012 Assistant Specialist, Hawaii Institute of Geophysics and Planetology (HIGP), University of Hawaii
- 2001-2008 Assistant Researcher, International Pacific Research Center (IPRC), University of Hawaii
- 1999-2001 Research Associate, Post-doctoral, School of Oceanography, University of Washington
- 1998-1999 Post-doctoral Researcher, International Pacific Research Center (IPRC), University of Hawaii
- 1992-1998 Graduate Assistant, Department of Oceanography, University of Hawaii
- 1990-1992 Senior Scientist, Hughes STX Corporation, NASA/GSFC
- 1998-1990 NASA Traineeship, Department of Oceanography, Florida State University
- 1986-1988 Associate Staff, Atlantic Research Corporation, DTRC

3. Publications

- 2014 Augustin, A., J. T. Potemra and M. Merrifield. Marine debris deposition patterns in the central North Pacific relative to forcing factors, *Mar. Pol. Bul.*, submitted.
- 2014 Sprintall, J., A. Gordon, A. Koch-Larrouy, T. Lee, J. T. Potemra, K. Pujiana, and S. Wijffels. The Indonesian Seas and their impact on the Coupled Ocean-Climate System, *Nature Geoscience*, in press.
- 2014 Puniwai, N., L. Canale, M. Haws, J. T. Potemra, C. Lepczyk and S. Grey. Development of a GIS-based Tool for Aquaculture Siting, *Int. J. Geo-Inf.*, 3(2), 800-816, doi:10.3390/ijgi3020800.
- 2013 Baltes, B., D. Rudnick, M. Crowley, J. T. Potemra, O. Schofield, C. Lee, J. Barth, C. Lembke, D. Staniski and R. Banks. US IOOS National Glider Network Plan, IOOS Technical Report, 34pp.

- 2012 Potemra, J. T. Observing ocean temperatures for thermal energy resources, *Sea Tech.*, 53, 7.
- 2012 Potemra, J. T. and S. Wong. Oceanic influences on water quality at Wai'alaie Kahala Beach, Oahu, *Pacific Science*, under revision.
- 2011 Jia, Y., P. Calil, E. Chassignet, E. J. Metzger, J. T. Potemra, K. J. Richards, and A. J. Wallcraft. Generation of mesoscale eddies in the lee of the Hawaiian Islands, *J. Geophys. Res.*, **116**, C11009, doi:10.1029/2011JC007305.
- 2011 Potemra, J. T. Numerical modeling with application to tracking marine debris, *Mar. Pol. Bul.*, doi:10.1016/j.marpolbul.2011.06.026.
- 2009 Cornillon, P., J. Adams, M. B. Blumenthal, E. Chassignet, E. Davis, S. Hankin, J. Kinter, R. Mendelssohn, J. T. Potemra, A. Srinivasan and J. Sirot. NVOIS and the development of OPeNDAP - an integrative tool for oceanographic data systems. *Oceanography*, **22**, 116-127. [1 citation](#)
- 2009 Potemra, J. T. and T. Qu. The Seas of Southeast Asia. Encyclopedia of Ocean Sciences, 2nd Edition, J. H. Steele, K. K. Turekian and S. A. Thorpe, Editors. Oxford: Academic Press.
- 2008 Jochum, M. and J. T. Potemra. Sensitivity of tropical rainfall to Banda Sea diffusivity in the Community Climate System Model. *J. Climate*, **21**, 6,445-6,454. [8 citations](#)
- 2007a Potemra, J. T. and N. Schneider. Interannual variations of the Indonesian throughflow. *J. Geophys. Res.*, **112**, C05035, doi:10.1029/2006JC003808. [16 citations](#)
- 2007b Potemra, J. T. and N. Schneider. Influence of low-frequency Indonesian throughflow transport on temperatures in the Indian Ocean in a coupled model. *J. Climate*, **20**, 1,339-1,352. [1 citation](#)
- 2006 Yu, Z. and J. T. Potemra. Generation mechanism for the intraseasonal variability in the Indo-Australian basin. *J. Geophys. Res.*, **111**, C01013, doi:10.1029/2005JC003023. [10 citations](#)
- 2005 Potemra, J. T. Indonesian throughflow transport variability estimated from satellite altimetry. *Oceanography*, **18**, 94-103. [1 citation](#)
- 2005 Annamalai, H., J. T. Potemra, R. Murtugudde and J. P. McCreary Effect of Preconditioning on the Extreme Climate Events in the Tropical Indian Ocean. *J. Climate*, **18**, 3450-3469. [15 citations](#)
- 2003 Potemra, J.~T., J. Sprintall, S.~L. Hautala and W. Pandoe. Observed estimates of convergence in the Savu Sea, Indonesia. *J. Geophys. Res.*, **108**(C1), 3001, doi:10.1029/2002JC001507. [4 citations](#)
- 2003 Potemra, J. T., S. L. Hautala and J. Sprintall. Vertical structure of Indonesian throughflow in a large-scale model. *Deep Sea Res. II*, **50**, 2,143-2,162. [12 citations](#)
- 2003 Sprintall, J., J. T. Potemra, S. L. Hautala, N. A. Bray and W. W. Pandoe. Temperature and salinity variability in the exit passages of the Indonesian throughflow. *Deep Sea Res. II*, **50**, 2,183-2,204. [14 citations](#)
- 2003 Annamalai, H., R. Murtugudde, J. T. Potemra, S. P. Xie, P. Liu and B. Wang. Coupled Dynamics in the Indian Ocean: Externally or Internally Forced? *Deep Sea Res. II*, **50**, 2,305--2,330. [68 citations](#)
- 2002 Potemra, J. T., S. L. Hautala, J. Sprintall, and W. Pandoe. Interaction between the Indonesian seas and the Indian Ocean in observations and numerical models. *J. Phys. Ocean.*, **32**, 1838-1854. [23 citations](#)

- 2001 Hautala, S. L., J. Sprintall, J. T. Potemra, A. G. Ilahude, J. C. Chong, W. Pandoe and N. Bray. Velocity structure and transport of the Indonesian throughflow in the major straits restricting flow into the Indian Ocean. *J. Geophys. Res.*, **106**, 19,527-19,546. [35 citations](#)
- 2001 Potemra, J. T. Contribution of equatorial Pacific winds on southern tropical Indian Ocean Rossby waves. *J. Geophys. Res.*, **106**, 2407-2422. [28 citations](#)
- 1999 Potemra, J. T. Seasonal variations of the Pacific to Indian Ocean throughflow. *J. Phys. Ocean.*, **29**, 2930-2944. [16 citations](#)
- 1999 Potemra, J. T. and R. Lukas. Seasonal to interannual modes of sea level variability in the western Pacific and eastern Indian Oceans. *Geophys. Res. Lett.*, **26**, 365-368. [21 citations](#)
- 1997 Potemra, J. T., R. Lukas and G. Mitchum. Large-scale estimation of transport from the Pacific to the Indian Ocean. *J. Geophys. Res.*, **102**, 27,795-27,812. [32 citations](#)
- 1992 Potemra, J. T., M. E. Luther and J. J. O'Brien. The seasonal circulation of the upper ocean in the Bay of Bengal. *J. Geophys. Res.*, **96**, 12,667-12,684. [72 citations](#)

4. Presentations

- July 2013 invited talk: *Numerical Modeling with Application to Tracking Marine Debris*, Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP) Working Group Meeting, London, England.
- July 2013 invited talk: *Investigating Climate Change Impacts to Pacific Islands: Numerical Modeling*, Hawaii Conservation Conference, Honolulu, Hawaii.
- February 2013 invited talk: *Big Data: Challenges in Oceanography*, Workshop on big data in environmental science, Honolulu, Hawaii.
- February 2013 invited talk: *Visualization of Fisheries-Related Data in PacIOOS*, Northeast Fisheries Data Visualization Workshop, Portland, Maine (done via webex).
- January 2013 invited talk: *Numerical Modeling with Application to Tracking Marine Debris*, Departmental Seminar, Hawaii Pacific University, Honolulu, Hawaii.
- December 2012 poster: *Data Services for IOOS Regional Association for the Pacific*, AGU Annual Meeting, San Francisco, California.
- December 2012 poster: *Freshwater Exchange via the Sunda Strait Estimated by Aquarius*, AGU Annual Meeting, San Francisco, California.
- June 2012 talk: *PacIOOS Data Management*, NOAA Regional Data Management and Portal Development Workshop, Charleston, South Carolina.
- May 2012 invited talk: *Geospatial Data Inventory and Accessibility*, NOAA/National Humpback Whale Sanctuary Data Catalog Meeting, Hawaii Kai, Hawaii.
- April 2012 invited talk: *Data and Information Management through the Pacific Islands Ocean Observing System*, NOAA CoastWatch Annual PI Meeting, Kona, Hawaii.
- March 2012 invited talk: *Impacts of Low-Frequency Indonesian Throughflow Variability*, CLIVAR Indonesian Throughflow Panel Meeting, Jakarta, Indonesia.
- February 2012 poster: *Near-shore Conditions at Wai'alaie-Kahala Beach Park*, Ocean Sciences, Salt Lake City, Utah.
- September 2011 talk: *IOOS Biology Data Project*, MTSE-IEEE Oceans-11, Kona, Hawaii.
- September 2011 talk: *Ocean Temperature Estimates for Ocean Thermal Energy Conversion*, MTSE-IEEE Oceans-11, Kona, Hawaii.

- June 2011 poster: *Statistics of near-surface salinity gradients from historical CTD and Argo data*, NASA Aquarius Science Team meeting (and launch), Lompoc, California.
- May 2011 talk: *Data services for biological data*, NOAA IOOS Biology Project Workshop, Honolulu, Hawaii.
- March 2011 talk: *Numerical models with application to tracking marine debris*, Fifth International Marine Debris Conference, Honolulu, Hawaii.
- February 2011 talk: *Using the Magic Planet as a tool for teaching about climate change*, DOE Math-Science Partnership Teacher in-service, Honolulu, Hawaii.
- October 2010 display: *PacIOOS*, Western Pacific Fisheries Management Council Fishers Forum, Honolulu, Hawaii.
- September 2010 talk: *Developing climate data services at the IPRC*, NOAA/Pacific Climate Information System (PaCIS), Honolulu, Hawaii.
- August 2010 display: *SOEST Beach Safety Web Site*, Hawaii Tourism Authority annual meeting, Honolulu, Hawaii.
- May 2010 talk: *HIOOS Data Products*, NOAA/NFRA Product Development Workshop, Ann Arbor, Michigan.
- March 2010 talk: *Data services for Pacific Island communities: Developing the Pacific Integrated Ocean Observing System*, IMDIS-2010, Paris, France.
- September 2009 talk: *Argo Product Development*, 10th Argo Data Management Meeting, Toulouse, France.
- February 2009 talk: *Institutional Overview of the Pacific Regional Association of the Global Ocean Observing System (PI-GOOS)*, Twelfth Session of the Global Ocean Observing System Scientific Steering Committee, Perth, Australia.
- September 2008 talk: *Accessing and interpreting global climate data*, PI-GOOS Training Workshop, Nadi, Fiji.
- July 2008 talk: *Mixing in the Banda Sea: Implications for Climate*, Western Pacific Geophysics Meeting, Cairns, Australia.
- November 2007 talk: *Status of the Pacific Argo Regional Association*, Hobart, Australia.
- March 2007 talk: *Research on Product Development and Product Delivery for Research and Applications Users*, Asia Pacific Network meeting, Honolulu, Hawaii.
- February 2007 talk: *OPeNDAP Applications at the APDRC*, OPeNDAP Developers Workshop, Boulder, Colorado.
- November 2006 talk: *Recent developments at PARC*, Argo Data Management meeting, Tianjin, China.
- October 2006 talk: *Data archiving and serving at the APDRC*, APCC, Busan, Korea.
- October 2006 talk: *Pacific Islands Integrated Ocean Observing System: Building a Foundation*, NFRA Workshop on Regional Needs for Coastal Remote Sensing, Durham, New Hampshire.
- September 2006 talk: *Utilization of Unidata products at the APDRC*, Unidata annual policy meeting, Honolulu, Hawaii.
- February 2006 talk: *The APDRC: where to archive your data?*, CLIVAR Pacific Panel Meeting, Honolulu, Hawaii.
- December 2005 talk: *The influence of low frequency variability the Indonesian throughflow on Indian Ocean temperature*, AGU Annual Meeting, San Francisco, California.
- November 2005 talk: *Pacific Argo Regional Center (PARC) progress and status*, 6th Argo Data Management Meeting, Tokyo, Japan.

- October 2005 talk: *IPRC/APDRC Activities in the Pacific*, Pacific Islands Networking Meeting, Honolulu, Hawaii.
- July 2005 talk: *Data Archiving and Serving at the APDRC*, ABC-East Asia Experiment meeting, Kyoto, Japan.
- June 2005 talk: *Predictability of Climate: Research at the International Pacific Research Center*, PACON/Ocean Day 2005, Honolulu, Hawaii.
- April 2005 talk: *Data archiving and serving at the Asia-Pacific Data Research Center (APDRC)*, ABC Science Working Group meeting, Shanghai, China.
- October 2004 poster: *Influence of low-frequency Indonesian throughflow transport variations on temperatures in the Indian Ocean in a coupled model*, Department of Energy Annual Meeting, Seattle, Washington. Presented by Niklas Schneider.
- August 2004 talk: *Depth Variability of Indonesian Throughflow Inflow and Outflow Transport From OfES*, 2004 Western Pacific Geophysics Meeting, Honolulu, Hawaii.
- July 2004 talk: *Low-frequency changes in upper-ocean temperatures in the Indian Ocean and the Indonesian throughflow*, 2004 Asia-Oceania Geophysics Society Annual Meeting, Singapore.
- July 2003 talk: *Interannual Variability of Indonesian Throughflow Transport*, 2003 International Union of Geodesy and Geophysics Meeting, Sapporo, Japan.
- July 2002 talk: *Decadal Changes in ITF Transport and its Influence on Indian Ocean Climate Variability*, 2002 Western Pacific Geophysics Meeting, Wellington, New Zealand.
- February 2002 poster: *Mass Storage in the Savu Sea Estimated from in-Situ and Remote Observations and a Numerical Model*, 2002 Ocean Sciences Meeting, Honolulu, HI.
- June 2000 Talk: *Vertical Modes of Transport at the Outflow Straits*, 2000 Western Pacific Geophysics Meeting, Tokyo, Japan.
- January 2000 Talk: *Observed Estimates of Throughflow Transport at the Outflow Straits*, 2000 Ocean Sciences Meeting, San Antonio, Texas.
- January 1998 Poster: *Seasonal Forcing of the Indonesian Throughflow*, NATO Advanced Studies Institute workshop on Ocean Modeling and Parameterization, Les Houches, France.
- July 1996 Talk: *The Relationship of Indonesian Throughflow with Heat Content Variability in the Western Pacific Warm Pool*, 1996 Western Pacific Geophysics Meeting, Brisbane, Australia.
- July 1996 Paper: *Large-scale Estimation of Transport from the Pacific to the Indian Ocean*, 1996 Western Pacific Geophysics Meeting, Brisbane, Australia. Presented by R. Lukas.
- October 1995 Poster: *Large-scale Estimation of Transport from the Pacific to the Indian Ocean*, The Operational Oceanography and Satellite Observation Symposium, Biarritz, France. Presented by G. Mitchum.
- September 1995 Talk: *Indexing the Pacific to Indian Ocean Volume Transport with Sea Level*, 1995 Student Travel for Achievement in Research (STAR) Symposium, Honolulu, Hawaii.
- November 1994 Paper: *Interannual Fluctuations of the Bifurcation of the North Equatorial Current in the Western Pacific*, UNESCO WESTPAC Third International Scientific Symposium, Bali, Indonesia. Presented by R. Lukas.
- July 1994 Invited Talk: *Interannual Fluctuations of the Bifurcation of the North Equatorial Current in the Western Pacific*, 1994 Western Pacific Geophysics Meeting, Hong Kong.
- July 1994 Talk: *Quasi-Biennial Oscillations in the Western Equatorial Pacific: Model/Data Intercomparison*, 1994 Equatorial Theoretical Panel Meeting, Honolulu, HI.
- December 1990 Poster: *The Seasonal Circulation of the Upper Ocean in the Bay of Bengal*, 1990 Fall AGU, San Francisco, CA.

5. Research Grants

Active

- 10/2011 – 09/2015 *Developing the Pacific Islands Integrated Ocean Observing System.* **NOAA**, Brian Taylor PI, several co-I. \$2,100,000 for the first year (no salary).
- 10/2009 – 09/2014 *Aquarius salinity calibration, error quantification, signal-to-noise analyses, and resolution studies using historical and concurrent data to study salinity structure and variability at ocean fronts and due to air-sea interaction.* **NASA**, N. Maximenko PI, J. Potemra and P. Hacker, co-I. \$538,206 over four years (1 month per year personal salary).
- 10/2013 – 09/1014 *Enhancement of Data and Research Activities for Climate Studies at the International Pacific Research Center (IPRC).* **NOAA**, K. Hamilton PI, J. Potemra co-I. \$270,000 over one year (2 months personal salary).
- 07/2012 – 06/1015 *ALOHA Cabled Observatory: Operations and Maintenance.* **NSF**, B. Howe PI, J. Potemra co-I (from R. Lukas). \$1,261,194 over three years (1 month personal salary).

Pending

- 04/2014 – 03/2017 *Application of Aquarius sea surface salinity observations for high-resolution global and regional studies: error analysis and Level 4 products.* **NASA**, O. Melnichenko, PI, N. Maximenko, J. Potemra, and P. Hacker co-I. \$627,511 over three years (one month personal salary).
- 08/2014 – 07/2017 *Ocean Climate Indicators for the Trade Wind Regions.* **NOAA**, R. Weller, PI, A. Plueddemann, R. Lukas and J. Potemra co-I. \$116,265 over three years (0.5 months personal salary).
- 08/2014 – 07/2017 *Using Benchmark Time Series to Investigate Biases in the Tropical Pacific.* **NOAA**, R. Weller, PI, A. Plueddemann, R. Lukas and J. Potemra co-I). \$116,265 over three years (0.5 months personal salary).

Expired

- 07/2011 – 06/1012 *Enhancement of Data and Research Activities for Climate Studies at the International Pacific Research Center (IPRC).* **NOAA**, K. Hamilton PI, J. Potemra co-I. \$250,000 over one year (2 months personal salary).
- 01/2010 – 12/2012 *Dynamics of near-surface eastward flows in the South Indian Ocean.* **NSF**, J. McCreary, PI, Ryo Furue co-I. \$446,113 over three years (1 month per year personal salary).
- 07/2010 – 06/1011 *Enhancement of Data and Research Activities for Climate Studies at the International Pacific Research Center (IPRC).* **NOAA**, K. Hamilton PI, J. Potemra co-I. \$1,489,789 over one year (2 months personal salary).
- 09/2009 – 09/2011 *Ocean Thermal Extractable Energy Visualization.* **DOE**, Laura Martel, PI, Several co-I. \$500,000 over 2 years (1 month per year personal salary).
- 10/2009 – 09/2010 *Predictive Modeling of the Distribution of Deep-Sea Corals in the Main Hawaiian Islands.* **NOAA**, J. Rooney, PI. \$47,610 over one year (1/2 month personal salary).
- 10/2008 – 09/2011 *PacIOOS Regional Association Support.* **NOAA**, Brian Taylor PI, J. Potemra, M. McManus and D. Okimoto co-I's. \$500,000 over three years (no salary).

- 05/2008 – 12/2010 *Earth Science Education Modules for Spherical Projection Systems.* **NOAA**, Michael Shanahan PI, Leon Geschwind, co-I. \$300,000 over 2.5 years (one month personal salary).
- 10/2007 – 09/2010 *Developing the Hawaii-Pacific Ocean Observing and Information System.* **NOAA**, B. Taylor, PI; several co-I's. \$7,513,133 over three years (5 months per year personal salary).
- 06/2008 – 12/2009 *Identification and Zoning of Near-shore Areas for Marine Aquaculture.* Hawaii County, Maria Haws PI, several co-I's. \$175,000 over 1 year (1 month personal salary).
- 07/2007 – 06/2008 *Establishment of a PI-GCOS Server.* **BOM Australia**, J. Potemra, PI. \$20,000 over one year (equipment only).
- 10/2007 – 09/2008 *A social networking service for environmental data.* **NOAA**, Nancy Soriede, PI, J. Potemra and Joe Sirot co-I. \$80,000 over one year (no salary).
- 10/2006 – 09/2007 *A PRIDE web portal to observing system data from the Pacific region: Building on a successful pilot project.* **NOAA/PRIDE**, J. T. Potemra, PI; J. Sirot, N. Soreide, co-PI's. \$89,000 for one year.
- 10/2006 – 09/2007 *Extending the PRIDE-Live Access Server: Realtime high resolution satellite observations, regional models and usability enhancements.* **NOAA/PRIDE**, S. Hankin, PI; J. T. Potemra, K. Casey, E. Chassignet and J. Vasquez, co-PI's. \$116,000 for one year.
- 10/2006 – 09/2007 *Desktop access to PRIDE observing system datasets with Matlab and Google Earth: building on the FY2005 PRIDE Pilot Project and DAPPER data server.* **NOAA/PRIDE**, N. Soreide, PI; J. T. Potemra and G. Johnson, co-PI's. \$68,000 for one year.
- 07/2005 – 06/2006 *Enhancement of data and research activities for climate studies at the International Pacific Research Center (IPRC).* **NOAA**, J. P. McCreary, PI; P. Hacker and J. T. Potemra, co-PI's. \$1,872,000 for one year.
- 04/2005 – 03/2006 *Development of an integrated dataset of subseasonal to seasonal rainfall forecasts for the Pacific Islands.* **NOAA/PRIDE**, N. Colasacco, X. Fu and L. He, PI's; C. Weyman, J. T. Potemra and P.-S. Chu, co-PI's. \$80,000 over one year.
- 04/2005 – 03/2006 *Integrating PMEL Argo access and EPIC web at IPRC to create an operational pilot for a Pacific region in-situ data display website.* **NOAA/PRIDE**, N. Soreide, PI; J. T. Potemra, W. Shu co-PI's. \$87,000 for one year.
- 04/2005 - 3/2006 *Integrated access to Pacific regional data assimilation model outputs.* **NOAA/PRIDE**, S. Hankin, PI; J. T. Potemra and E. Chassignet co-PI's. \$116,000 for one year.
- 04/2005 – 03/2006 *Hawaiian archipelago pilot project for a Pacific region integrated information website.* **NOAA/PRIDE**, J. T. Potemra, PI; N. Soreide and S. DeCarlo co-PI's. \$44,000 for one year.

Declined

- 07/2011 – 06/2014 *Enhancement of Data and Research Activities for Climate Studies at the International Pacific Research Center (IPRC).* **NASA EPSCoR**, L. Flynn PI, K. Hamilton and J. Potemra co-I. \$666,282 over three years (1 month per year personal salary).
- 10/2010 – 09/2012 *Marine Spatial Planning for Mariculture in the Hawaiian Islands.* **NOAA**, M. Haws, PI, N. Puniwai and J. Potemra, co-I. \$172,342 over two years (one month personal salary).

- 05/2009 – 04/2010 *Near-real time Climate Data Products from Argo floats.* **NOAA**, N. Maximenko PI, J. Potemra and P. Hacker, co-I. \$199,813 over one year (1 month per year personal salary).
- 01/2011 – 12/2013 *Marine Mammal Observatories for Renewable Energy Facilities Using Unmanned Wave Gliders.* **NOPP**, Brian Bingham, PI, W. Aw, B. Howe and J. Potemra, co-I. \$1,039,815 over three years (1 month total personal salary).
- 01/2009 – 12/2009 *Analysis services for environmental data.* **NOAA/HPCC**, Nancy Soreide, PI, J. Potemra and J. Sirot co-I. \$97,500 over one year (0 months per year personal salary).
- 07/2009 – 06/2012 *Developing an Integrated Approach to Observing and Understanding the Feedback Between Circulation and Tidal Mixing in Monterey Bay.* **NSF**, B. Howe PI, G. Carter, R. Lukas, J. Potemra and B. Powell, co-I. \$1,364,245 over three years (1 month per year personal salary).
- 01/2009 – 12/2011 *Dynamics of near-surface eastward flows in the South Indian Ocean.* **NSF**, J. Potemra, PI, Ryo Furue and Jay McCreary co-I. \$466,554 over three years (1 month per year personal salary).
- 01/2009 – 12/2011 *A cloud-based analysis system for large-scale data analysis.* **NASA**, J. Potemra, PI. \$1,374,615 over three years (1 month per year personal salary).
- 09/2007 – 08/2008 *Near-realtime monitoring of the intermediate depth world ocean with Argo floats.* **NOAA**, N. Maximenko and J. Potemra, PI's; Peter Hacker co-I. \$167,904 over one year (2 month per year personal salary).
- 09/2007 – 08/2008 *Role of salinity on air-sea interaction and the MJO: A case study using in situ observations.* **NOAA**, H. Annamalai and J. Potemra, PI's \$116,453 over one year (1 month per year personal salary).
- 01/2008 – 12/2010 *Dynamics of the South Indian Subtropical Gyre.* **NSF**, J. Potemra, PI; R. Furue and J. McCreary co-I's. \$600,000 over three years (1 month per year personal salary).
- 07/2007 – 06/2010 *Dynamics of the South Indian Subtropical Gyre.* **NSF**, J. Potemra, PI; R. Furue and J. McCreary co-I's. \$400,000 over three years (2 months per year personal salary).
- 08/2007 – 07/2010 *Modeling vertical structure and pathways of the Indonesian Throughflow in the Indonesian Seas.* **NSF**. R. Furue, PI; J. McCreary and T. Jensen co-I's. \$401,000 over three years (2 months per year personal salary).
- 02/2006 – 01/2009 *Numerical Study of Indonesian Strait Dynamics.* **ONR**. J. T. Potemra PI; M. Merrifield and M. Yaremchuk, co-PI's. \$498,000 requested over three years (3 months personal salary).
- 07/2004 – 06/2007 *The Influence of the Indonesian Throughflow on the Southeastern Subtropical Indian Ocean.* **NASA**. J. T. Potemra PI. \$263,239 requested over three years (3 months per year for personal salary).
- 01/2004 – 12/2006 *The Influence of the Indonesian Throughflow on the Southeastern Subtropical Indian Ocean.* **NSF**. J. T. Potemra PI. \$244,254 requested over three years (3 months per year for personal salary).
- 07/2003 – 06/2006 *Dynamics of the Surface Circulation in the Indo-Australian Basin.* **NSF**. J. T. Potemra and Z. Yu, PI's. \$334,359 requested over three years (2 months per year for personal salary).
- 07/2003 – 06/2006 *U.S. GODAE: Implementation of a Pacific Island Ocean Information System.* **NOAA**. P. Hacker, E. Shea and S. Hankin, PI's; J. McCreary, T. Waseda, J. Potemra

and M. Yaremchuk, co-PI's. \$2,429,257 requested over three years (4 months per year for personal salary).

01/2002 – 12/2004 *Local and Remote Influences on Ocean-Atmosphere Interaction in the Equatorial Indian Ocean. NASA.* H. Annamalai, PI; R. Murtugudde, J. McCreary and J. Potemra, co-PI's. \$279,738 requested over three years.

6. Awards

Editor's Citation for Excellence in Refereeing, *Geophysical Research Letters*, 2008
University of Hawaii Graduate Student Organization (GSO) Travel Award, 1998
Achievement Rewards for College Scientists (ARCS) Scholarship Award, 1997/98
Student Travel for Achievement in Research (STAR), Best Talk 1995
J. Watumull Merit Scholarship 1995
President, Nakamakai (Graduate Student Organization) 1994-95
AGU Student Travel Grant 1994
NASA Traineeship 1988 and 1989
Johns Hopkins Applied Physics Laboratory Scholarship 1982 to 1986
Maryland State Scholarship 1982

7. Professional Societies

American Geophysical Union
American Meteorological Society
Hawaii Academy of Sciences
The Oceanography Society

8. Meetings, Conferences, Workshops

Regional IOOS Fall Meeting, San Diego, CA, *Nov 7 – 8 2013*
IOOS Data Integration Framework (DIF) annual meeting, Silver Spring, MD, *Sep 10 – 12 2013*
USCG Oil Spill Response Plan workshop, Honolulu, HI, *Jul 2013*
GESAMP Marine Debris Working Group, London, England, *Jul 22 – 26 2013*
GOOS Regional Alliance meeting, Honolulu, HI, *May 14 2013*
NOAA Coral Reef Survey Design Workshop, Honolulu, HI, *Apr 15 – 18 2013*
NASA PODAAC User Group Advisory Committee meeting, Pasadena, CA, *Mar 12 – 13 2013*
Pacific Islands Climate Change Forum and Training, Suva, Fiji, *Jan 21 – 25 2013*
IOOS Summit, Vienna, VA, *Nov 13 – 16, 2012*
Pacific Climate Information System (PaCIS) steering committee, Honolulu, HI, *Mar 23 - 24 2011*
Aquarius Science Team meeting and launch, Vandenberg, CA, *Jun 9 - 10 2011*
NASA Panel meeting, Bethesda, MD, *Sep 7 - 9 2011*
MTSE/IEEE Oceans-11, Kona, HI *Sep 18 - 22 2011*
Argo Data Management meeting, Soeul, S. Korea, *Nov 14 - 18 2011*
NOAA Marine Debris workshop, Honolulu, HI *Jan 19 2012*
Ocean Sciences meeting, Salt Lake City, Utah, *Feb 20 - 24 2012*
CLIVAR ITF panel meeting, Jakarta, Indonesia, *Mar 12 - 14 2012*

NOAA CoastWatch annual PI meeting, Kona, HI, *Apr 11 2012*
NOAA NHW Sanctuary data catalog meeting, Hawaii Kai, HI, *May 23 2012*
NOAA CSC Regional Data Management and Portal Development workshop, Charleston, SC, *Jun 27 - 28 2012*
IOOS National Glider Plan workshop, San Diego, CA, *Aug 1 - 3 2012*
IOOS DIF Regional Management meeting, Silver Spring, MD, *Sep 10 - 14 2012*
Science Foundations for Ocean Planning in Hawaii: Human Use and Habitat Characterizations, Honolulu, HI, *Oct 2 - 3 2012*
High Performance Computing Research Opportunities for Undergraduates Symposium, Honolulu, HI, *Aug 3 2011*
UH/NSF EPSCoR Science retreat, Kona, HI, *Jul 17 2011*
NASA Salinity Science Team meeting, Lompoc, CA, *Jun 8 2011*
IOOS Biological Data Integration meeting, Honolulu, HI, *May 18 - 20 2011*
PacIOOS Data Training workshop, Honolulu, HI, *Apr 29 2011*
Pacific Climate Information Service (PaCIS) steering team meeting, Honolulu, HI, *Jan 23 2011*
Fifth International Marine Debris Conference, Honolulu, HI, *Jan 21 - 25 2011*
Pacific Area Climate Monitoring and Analysis Network meeting, Honolulu, HI, *Jan 13 - 14 2011*
Ocean Observing Initiative Cyber Infrastructure (OOI/CI) model testbed workshop, Monterey, CA, *Jan 4 - 6 2011*
IOOS Biological Data Integration meeting, Honolulu, HI, *Sep 20 - 21 2010*
PaCIS Implementation Meeting, Honolulu, HI, *Sep 1 - 3 2010*
PacIOOS Data Users workshop, Guam, *July 20 - 21 2010*
PacIOOS Data Users workshop, Saipan, *July 18 - 19 2010*
HIOOS Stakeholder workshop, Honolulu, HI, *Jun 25 2010*
Ocean Thermal Energy: Assessing Risks, Honolulu, HI, *Jun 22 - 24 2010*
NFRA Product Development Workshop, Ann Arbor, MI, *May 17 - 19 2010*
IMDIS, Paris France, *Mar 29 - 31 2010*
IOOS DIF Regional Implementation meeting, Silver Spring, MD, *Mar 23 - 24 2010*
NOAA Coastal Storms Program workshop, Honolulu, HI, *Mar 19 2010*
Argo Data Management meeting, Toulouse, France, *Sep 29 - Oct 2 2009*
GTSP meeting, Toulouse, France, *Sep 28 2009*
OceanObs09, Venice, Italy, *Sep 21 - 25 2009*
SOS Implementation workshop, San Diego, CA, *Aug 24 - 25 2009*
IOOS Analysis of Acquisition Alternatives, Silver Spring, MD, *Aug 19 - 20 2009*
IOOS DIF Regional Implm meeting, Silver Spring, MD, *Mar 10 - 12 2009*
GOOS Scientific Steering Committee workshop, Perth, Australia, *Feb 23 - 25 2009*
PI-GOOS Steering Committee meeting, Honolulu, HI, *Nov 1 2008*
Argo Data Management meeting, Honolulu, HI, *Oct 28 - 31 2008*
GTSP meeting, Honolulu, HI, *Oct 27 2008*
PI-GOOS Training Workshop, Nadi, Fiji, *Sep 22 - 26 2008*
GEON Cyber Institute, San Diego, CA, *Aug 11 - 15 2008*
PaCIS meeting, Honolulu, HI, *Aug 4 - 7 2008*
Western Pacific Geophysics Meeting, Cairns, Australia, *Jul 28 - 31 2008*
CSC IOOS workshop, Charleston, SC, *Feb 6 - 8 2008*
AOML invited talk, Miami, FL, *Feb 4 - 5 2008*
Asia Pacific Network Monsoon lecture, Honolulu, HI, *Jan 2 2008*

IOOS Regional Grantees DM Workshop, Charleston, SC, *6 Feb - 7 Feb 2008*
PI-GOOS Steering Committee, Nuku'alofa, Tonga, *20 Nov 2007*
Argo Data Management Meeting, Hobart, Tasmania, *12 Nov - 16 Nov 2007*
IOOS Regional Coordination Workshop, St. Petersburg Florida, *23 Oct - 25 Oct 2007*
PRIDE Visualization Workshop, Honolulu, *17 Oct - 18 Oct 2007*
APN Global Climate Change Research, Honolulu, *22 Mar 2007*
OPeNDAP Developers Workshop, Boulder, Colorado, *21 Feb - 23 Feb 2007*
Argo Data Management Meeting, Tianjin, *1 Nov - 3 Nov 2006*
Argo Trajectory Meeting, Incheon, Korea, *27 Oct 2006*
PARC Meeting, Busan, Korea, *26 Oct 2006*
NFRA Regional Needs for Coastal Remote Sensing, Durham, New Hampshire, *2 Oct - 6 Oct 2006*
PI-GOOS Steering Committee, Honiara, Solomon Islands, *20 Sep 2006*
SOPAC, Suva, Fiji, *18 Sep - 19 Sep 2006*
Model Metrics workshop, Honolulu, *25 Feb 2006*
OceanSITES, Honolulu, *16 Feb - 17 Feb 2006*
Pacific CLIVAR Panel, Honolulu, *15 Feb - 17 Feb 2006*
Argo Data Management Meeting, Tokyo, *6 Nov - 10 Nov 2005*
IPRC Science Advisory Committee Meeting, *5 Nov 2005*
Pacific Island Networking Meeting, Honolulu, *18 Oct 2005*
ABC East-Asia Experiment meeting, Kyoto, *29 Jun - 01 Jul 2005*
Ocean Day 2005 "Studies of Tourism and Climate in Hawaii", Honolulu, *01 Jun 2005*
Second Annual IOOS Implementation Meeting, Washington DC, *03 May - 04 May 2005*
ABC Scientific Planning Meeting, Shanghai, *04 Apr - 07 Apr 2005*
PRiMO annual meeting, Kona, *15 Mar - 17 Mar 2005*
IPRC General Council Meeting *1 Mar 2005*
American Meteorological Society Annual Meeting, San Diego, *10 Jan - 14 Jan 2005*

9. Panel Memberships

Member of the American Meteorological Society (AMS) Board on Data Stewardship (2010-present)
NASA ACCESS Panel (2013)
Member of Pacific Climate and Information Center (PaCIS) Executive Board (2011)
Member of International CLIVAR Panel for the Indonesian Throughflow (2011-present)
NASA Physical Oceanography Panel (2011)
UH NSF EPSCoR cyber team member (2011)
Member of NASA Salinity Science Team (2010 - present)
NOAA Analysis of Acquisition Alternatives Panel (2009)
Member of NOAA Data Integration Framework (DIF) regional implementation group (2008-present)
Member of NOAA IOOS regional observation registry technical advisory committee (2007-2008) NASA Panel member (2007)
Chair of Pacific Argo Regional Center (2006-present)
Member of PI-GOOS Steering Committee (2006-present)
NSF Panel member 2005

10. Panel/Committee Memberships (local)

Member of ORS Faculty Advisory Committee 2013-present
Member of CLIVAR Indonesian Throughflow Panel
Member of UH Manoa Faculty Senate (SOEST Rep., 2012-present)
Member of UHM Committee on Administration and Budget (2012-present)
Head Judge, Pacific Science and Sustainability Symposium (2012 and 2013)
Chair of SOEST Computer Committee 2005-2011
Member of IPRC Science Priorities Committee 2006-2007
Member of IPRC Steering Committee 2005-present
Member of IPRC Space Committee 2005-2008
Member of IPRC Visitors Committee 2003-2007
Member of SOEST Computer Committee 2002-present
Member of IPRC Computer Committee 2002-present
Judge, Hawaii State Science Fair 2001-present

11. Other Recent Service

HARP REU keynote speaker (2011)
DOE Teaching In-service training (2011)
Guest lecturer, CMORE Scholars orientation (2009)
Presenter at Bishop Museum "Mad About Science" day (2009)
Instructor at PI-GOOS training workshop (2008)
Member of SOEST Young Investigator search committee (2006)
Journal Reviewer for *J. Phys. Ocean.*, *J. Climate*, *J. Geophys. Res.*, *J. Ocean.*, *G-cubed*, *Bull. Amer. Met. Soc.*, *Deep Sea Res.*, *Cont. Shelf Res.*, *Geophys. Res. Let.*, *Indian J. Mar. Sci.*, *J. Mar. Res.*, *Oceanography*, *Mar. Pol. Bul.*, *Mar. Tech. Soc.*
Proposal Reviewer for NSF, NASA, NOAA

12. Teaching Activities

OCN-310	Global Environmental Change, Fall 2012
OCN-496	Topics in GES: Climate Change, Fall 2011.
OCN-363	Earth System Science Spring 2005 - present.
MARS-3080	Dynamic Physical Oceanography (Hawaii Pacific University), Spring 2005 and 2003.
Ocean-510	Physics of Ocean Circulation (University of Washington), Fall 2001.
Ocean-515	Observations of Ocean Circulation (University of Washington), Winter 2000.

13. Students and Employees

supervisor of APDRC staff at IPRC (approximately 4 FTEs)
supervisor of four full-time and three partially supported PacIOOS data management staff (5 FTEs)
Eric Shimbokura, undergraduate student, GES program, 2013
Alyssa Augustin, undergraduate student, GES program, 2013

Alfian, PhD student Fall 2005 (left UH in Spring 2006)
Chi Kan Fong, undergraduate student, GES program, Spring 2008
Stephanie Wong, high school intern, Summer 2011

14. Field Work

January 2000: UW Student Research Cruise (STUD-00). Ten-day section from San Diego to Hawaii along 24°N on the *R/V Thomas Thompson*, chief scientist Dr. Steve Riser (University of Washington).

May 1999: Shallow Pressure Gauge Array (SPGA-99). One week cruise on the *Baruna Jaya IV*, chief scientist Dr. Janet Sprintall (Scripps).

April 1994: COARE Intensive Observation Period (IOP-3). One month cruise on the *R/V Moana Wave*, chief scientist Dr. Linda Mangum (PMEL).

February 1994: Hawaii Ocean Timeseries (HOT-52). One week cruise on the *R/V Moana Wave*, chief scientist Dr. Luis Tupas (University of Hawaii).

September 1990: California Current system cruise. Two week cruise on the *R/V Pt. Sur*, chief scientist Dr. Nancy Marcus (Florida State University).