

Curriculum Vitae-abridged
Gad Levy
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ResearchGate Profile: www.researchgate.net/profile/G_Levy

Education/Professional Preparation:

B.Sc. Atmospheric Sciences and Geophysics (1981), The Hebrew University (Cum Laude)
M.S. Atmospheric Sciences (1982), Colorado State University (College of Engineering)
Ph. D. in Atmospheric Sciences, (1987), The University of Washington
Advanced Graduate Studies: Environmental studies & management of Science and technology (1984-87); Business Administration (2001), the University of Washington
Certified Consulting Meteorologist (CCM #501, 1992-), American Meteorological Society
Postdoctoral Fellow (1988/89), Oceanography, Oregon State University

Professional Appointments:

NorthWest Research Associates, Sr. Research Scientist	2002 –
French Institute of Sea Research (IFREMER), Visiting Scientist	2019
Chinese Academy of Science, Sr. International Visiting Professor	2014 -2015
Boeing Company, Mathematical & Computational Technology, Applied Statistics	2001 - 2003
Oregon State University, College of Oceanic and Atmospheric Sciences, Associate Professor (adjunct professor since 2000-)	1996 – 2006
Oregon State University, GIS Science, adjunct faculty,	1999 -
Univ of Phoenix, Affiliate/Associate Faculty (Statistics, Research, IT)	2001 - 2020
University of Washington, Research Scientist,	1993 - 2000
Oregon State University, Assistant Professor,	1990 - 1996
Oregon State University, Postdoctoral Research Associate,	1988 - 1989
University of Washington, Research Associate,	1982 - 1988
University of Washington, Teaching Assistant,	1984
Colorado State University, Research Assistant,	1981 - 1982

Expertise and Research Interests

Remote sensing of the ocean and atmosphere; Satellite meteorology and oceanography; Data Assimilation, Fusion and Mining; Analytical & Numerical Modeling; Data analysis, Machine Learning & Statistical Modeling; Weather and climate dynamics, risk management and prediction; Boundary layer and climate dynamics; Air-sea & Ocean-Atmosphere interactions.

Selected Service and Professional Activities:

Mentor, NSF Research Experience for Undergraduates (REU) program: Pacific NW REU (PNW-REU, Ocean Science), 2020; Climate and Large-Scale Dynamics REU, 2009-2013; Ocean Science Meeting (AGU/OSC) 2022; Pan Ocean Remote-Sensing Capacity Building & MOOC on Climate Resilience, 2021, 2022.

Affiliate member World Climate Research Program (WCRP) Safe Landing Climates working groups (Safe Landing pathways; Understanding high risk events; Water resources; & Sea Level Rise working groups) 2022 - .

Organizing committee: NOAA and EUMETSAT symposium "First International operational satellite oceanography symposium", 2019 [co-Editor of Final Report, 2020].

Co-Organizer: Interdisciplinary multi-sensor studies of the Pacific and Indian Oceans, The 14th Pan Ocean Remote Sensing Conference and capacity building tutorial, Oct. 30-7 Nov., 2018, Jeju-Island, Republic of Korea.

US Climate Variability and Predictability (CLIVAR) Steering Committee (2014-2015): Process Studies & Model Improvement (PSMI) Panel Co-Chair, 2014-2015 (panelist 2012-2016);

Pan Ocean Remote Sensing Association PORSEC: President (2016-); Vice-President (2012-2016); Member, Scientific Organizing Committee (2004-), Executive Committee (2005-) and Executive Secretary (2005-2012), Publications committee (2006 -), Awards committee (2010), Mentorship program Coordinator.

Session organizer and convener: US CLIVAR Session on Climate Model Diagnostics and Metrics at the 29th Conference on Climate Variability and Change, 97th American Meteorological Society Annual Meeting, January 22-26, 2017, Seattle WA.

Co-Organizer: Enabling Earth Observations in support of global, coastal, ocean and climate change research and monitoring, The 13th Pan Ocean Remote Sensing Conference and capacity building tutorial, 3-11 Nov., 2016, Fortaleza, Brazil (pre-Conference capacity-building training co-organizer, SAR applications session chair).

Session organizer and convener: US CLIVAR Session on Improved Representation of Physical Processes in Global Models, 2015 AGU Fall Meeting, 14-18 December, San Francisco, California.

Supervising host and Mentor for the Partnership for Observations of the Global Oceans (POGO) and the Scientific Committee on Oceanic Research (SCOR) joint visiting fellowship for Oceanographic Observations Programme, 2015.

Co-Organizer: Ocean Remote Sensing for Sustainable Resources, The 12th Pan Ocean Remote Sensing Conference, 4-7 Nov., 2014, Bali, Indonesia (pre-Conference capacity-building training co-organizer, SAR applications session chair).

Local Organizing Committee, PORSEC-2012: Ocean Remote Sensing for Well-Being of All, Kochi, Kerala, India.

AGU Media outreach project participant, 2009-2011.

Committee on Scientific Sessions and Posters: Remote – sensing for well being of all –PORSEC 2012 - the 11th Pan Ocean Remote Sensing Conference, Kochi, Kerala, India, 05-09, November 2012.

Organizer: Connecting Regional Impacts to Global Environmental Change - PORSEC2010 - the 10th Pan Ocean Remote Sensing Conference, 18-23 October, 2010, Keelung, Taiwan (Organizer, Convener, and co-Chairperson, “Ocean Atmosphere Interactions” session).

Co-Organizer: Oceanic manifestation of global changes - PORSEC2008 - the 9th Pan Ocean Remote Sensing Conference, December 2-6, 2008, Guangzhou, China (Organizer, co-Convener, and co-Chairperson, “Interactions between Ocean and Atmosphere; Satellite based Air-sea flux estimates” special sessions).

Lecturer, (Zonal asymmetry of tropical climate), Tropical Climate, Oceanography & Air Sea Interaction Course, 10-21 Nov. 2014, Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology SCSIO, Chinese Academy of Sciences, Guangzhou, China.

Lecturer & co-organizer, (Data-assimilation; Forecasting, Radiation Measurements), pre-conference training Course & lecture series on the fundamentals of ocean color & fisheries remote sensing, Altimetry, and SAR 27 Oct.- 1 Nov. 2014, Center for Remote Sensing and Ocean Sciences (CRESOS), Udayana University. Denpasar, Indonesia.

Lecturer & co-organizer, (Data-assimilation; Forecasting workshop), “International Remote Sensing Course and Tutorial Workshop” 14-16 Oct. 2010, National Taiwan Ocean University, Taiwan, and Nov. 3-7, 2016, Marine Science Institute of the Federal University of Ceará, Fortaleza, Brazil.

Lecturer, (Data-assimilation and Satellite sampling), “International Remote Sensing Course and Tutorial Workshop” 27-30 Nov. 2008, SCSIO, Chinese Academy of Science, Guangzhou, China.

Co-Organizer: International Remote Sensing Symposium ISRS-2006-PORSEC Nov. 2-4, 2006 and Tsunami workshop, Nov. 1, 2006, Busan, South Korea,

Organizer, Convener, and Chairperson, Air-Sea Interaction and Marine Atmosphere special session, International Remote Sensing Symposium & Pan Oceanic Remote Sensing Conference, Nov. 2 – 4, 2006.

Editor (Guest, special issues) - International Journal of Remote Sensing (2007 -)

Editor, Remote Sensing (MDPI, Ocean Remote Sensing section, 2018 -)

Book co-Editor: Typhoon Impacts and Crisis Management. Springer, (D. Tang & G. Sui, editors), ISBN 978-3-642-40694-2, (2014).

Book co-Editor: Remote Sensing of the Changing Oceans. DanLing (Lingzis) Tang, James (Jim) Gower, Gad Levy, Kristina B. Katsaros, Malcolm Heron and Ramesh Singh, Springer-Verlag, Berlin, Heidelberg, 2011. (ISBN: 978-3-642-165, e-ISBN 978-3-642-16541-2, DOI10.1007/978-3-642-16541-2).

Co-Editor, Bulletin of the PORSEC Association (2007 -)

Chairperson, Large scale Climate Dynamics session, Pan Oceanic Remote Sensing Conference & IOC/IOCARIBE Workshop, Nov. 27- Dec. 3, 2004.

Member: American Meteorological Society, American Geophysical Union, European Geoscience Union, Canadian Meteorological and Oceanographic Society, EOS/SPIE (2000-2004).

Session organizer and convener: Remote sensing of air-sea interaction, EOS/SPIE Symposium: Remote Sensing of the Ocean and Sea Ice, Barcelona, Spain, 2000.

Referee for The Journal of Atmospheric Sciences, Journal of Geophysical Research, Monthly Weather Review, Boundary Layer Meteorology, International Journal of Remote Sensing.

Senior International Visiting Professor, Chinese Academy of Science, 2014-2015, Visiting Scientist, Tel-Aviv Uni., Geophysics, August - September, 1992, 1994; University of Washington (Atmos. Sci.) 1989-1990.

Review Panels, Science Teams, and Workshops:

Co-Chair, flux and boundary layer modeling working group at the TOGA-COARE Int'l data summer workshop (Toulouse, France, 1994); National Academy of Science/National Research Council workshop on Massive Data Sets, (Washington, D.C. 1995); US CLIVAR Process Study Model Improvement (PSMI) panel (Science Summit, Newport Beach, CA, 2012; Annapolis, MD, 2013; Denver, CO, 2014, Tucson, AZ, 2015, Woods Hole, MA 2016).

NASA: Instrument Incubator Program (IIP), Ocean Wind Vectors, Quikscat, NSCAT, Radarsat Science Teams; Advanced Component Technology (ACT), In-Space Verification of Earth Science Technology (InVEST), Earth Science Systems (ESS), Soil Moisture Active Passive (SMAP) mission, Discovery Data Analysis Program (DDAP), Applied Information Systems Interdisciplinary Research, Earth Observing Systems (EOS) atmospheres, Center of Excellence in Space Data and Information Sciences (CESDIS) Grand Challenge Applications (atmosphere) Review Panels;

The National Science Foundation (NSF): NSF/SBIR/STTR (Remote Sensors), NSF Graduate Research Fellowship Program (GRFP) Review Panels;

Other Agencies:, The Israel Research Council, The National Oceanic and Atmospheric

Administration, The Netherlands Remote Sensing Board (BCRS); ONR Sea Ice and SAR; USEPA atmosphere Review Panels.

Recent Field Campaigns & Experiments Participation:

Indian Ocean Research Cruise: (Part of MISO-BoB) 2019; (SCSIO operated), 2011, 2012, 2013, 2014; (R/V Revelle, part of DYNAMO); Dec. 2011 – Jan. 2012.

Collaborators, Mentoring, & Student Advising:

Collaborators & Co-Editors: A. Bentamy (IFREMER, France), R. Chattopadhyay (IITM, India), A. Cracknell (U. Dundee, U.K), T. Dunkerton (NWRA), A. Geiss (PNL), J. Gower (IOS, Canada), K. Katsaros (NWRA), M. R. Kumar (NIO, India), N. Kumar (INCOIS, India), R. Kwok (JPL), L. Mahrt (NWRA), F. Marzano (U. Rome), S. Mori (U. Rome), G. Nguyen, (U. Sydney, AU), J. Patoux (UW), W. Perrie (BIO, Canada), K. Peterson (Sandia NL), M. Pruis (NWRA), H. Schreyer and D. Sulsky (UNM), K. Tansey (U. Leichesther, U.K.), T. Warner (U. W. VA), S. Vigundelli (National Research Council, Pisa, Italy) C. Zhang (NOAA).

Thesis Advisees and Postgraduate-Scholar Sponsored: Eleven graduate students advised/co-advised/thesis committee [J. Kim (PhD), Xu (Ph.D.), C. McCandlish (M.S), L. Zeng (PhD), S. Dickinson (M.S), J. Mjeldø (M.S.), M. Moscatelli (M.S.) Q. Sun (Ph.D.) Y. Song (M.S.), L. Cai (Ph.D.), M. Madina-Olalde (M.S.); Postgraduate Scholars co-sponsored (R. Foster, J. Patoux, UW, Q-Y Sun, POGO).

21 undergraduate and graduate students mentored and advised on research and field projects.

Honors and Awards

2018: Best poster presentation award for “Indian Ocean Double Inter-Tropical Convergence Zones and The Indian Summer Monsoon” (Levy, Geiss, Kumar) at “Remote Sensing of the Ocean: Significant dates and current state” Scientific Session, the Pacific Oceanological Institute, Far Eastern Branch, Russian Academy of Science.

2017: Outstanding support to the In-Space Verification of Earth Science Technology (InVEST) program and the NASA Earth Science Technology office.

2015: Awarded 1st Laboratory of Tropical Oceanography LTO Overseas Visiting Fellowship, SCSIO, Chinese Academy of Sciences, Guangzhou, China.

2015: Awarded “High End Foreign Experts Recruitment Program” by the Administration of Foreign Experts Affairs of Guangdong Province of China

2014: Awarded, Visiting Professorship for Senior International Scientists, the Chinese Academy of Sciences.

2013: Outstanding support to the In-Space Verification of Earth Science Technology (InVEST) program and the NASA Earth Science Technology office.

PORSEC Distinguished Service Award, Pan Ocean Remote Sensing (PORSEC) Association (2008).

2011: Outstanding support to the Advanced Component Technology (ACT) program and the NASA Earth Science Technology office.

2005-2006: International scientist of the year accolade, The International Biographical Centre of Cambridge, England.

2005-2006: Citation, the 60th Anniversary Edition of Who's Who in America, Marquis Who's Who.

1998- Citations, Who's Who in Science and Engineering, Marquis Who's Who, 4th & 5th editions, Science and Engineering

Academic Excellency, Hebrew University of Jerusalem

Scholarships, Hebrew University of Jerusalem

Honors List (Cum Laude), The Hebrew University of Jerusalem

Summer Research award for Outstanding Students, Faculty of Mathematics & Sciences, Hebrew University of Jerusalem,

Meirbaum Award, Meirbaum Foundation, Hebrew University of Jerusalem, Oceanography

Elizabeth Gould Award for International Understanding, The Foundation for International Understanding Through Students (FIUTS).

Invited Talks:

First International operational satellite oceanography symposium, Session on End-to-End Integration

Keynote talk (Climate modeling) at the 2015 Annual Conference of the North American Fuzzy Information Processing Society (NAFIPS) and 5th World Conference on Soft Computing, Redmond, WA. Aug. 17-19, 2015

USCLIVAR Summit Joint Session on Diagnostic Tools and Metrics for Intercomparison of Reanalyses and Utilization of Innovation, Increments, and Residuals. July 8-11, 2014, Denver, CO.

Russian Academy of Science, Far Eastern Branch, September 2013

ONR Sea Ice and SAR workshop, Chicago, IL 26-28 July 2011.

AOGS Asia Oceania Geosciences Society Conference AOGS 2010: Inter-disciplinary session on Remote Sensing of Atmosphere and Oceans, Hyderabad, India, July 5-9, 2010.

PORSEC2008: Oceanic manifestation of global changes - the 9th Pan Ocean Remote Sensing Conference, December 2-6, 2008, Guangzhou, China

EOS/SPIE Symposium: Remote Sensing of the Ocean and Sea Ice, Barcelona, Spain, 2000.

International Geoscience and Remote Sensing Symposium (IGARSS'98): Sensing and Managing the Environment (Seattle, 1998).

United States National Academy of Sciences, Massive Data Sets 1995

AAAI Symposium on active learning (MIT, 1995)

VI Latin American Symposium on Remote Sensors (Bariloche, Argentina, 1989)

Selected Publications:

Yao, Y.; Zhang, X.; Levy, G.; Jia, K.; Al-Quraishi, A.M.F. Advances in Land–Ocean Heat Fluxes Using Remote Sensing. *Remote Sens.* 2022, 14, 3402. <https://doi.org/10.3390/rs14143402>

Shroyer, E.; A. Tandon; D. Sengupta; H. Fernando; A. Lucas; J. Farrar; R. Chattopadhyay; S. de Szoeki; M. Flatau; A. Rydbeck; H. Wijesekera; M. McPhaden; H. Seo; A. Subramanian; R. Venkatesan; J. Joseph; S. Ramsundaram; A. Gordon; S. Bohman; J. Perez; I. Simoes-Sousa; S. Jayne; R. Todd; G.S. Bhat; M. Lankhorst; T. Schlosser; K. Adams; S.U.P. Jinadasa; M. Mathur; M. Mohapatra; E. Pattabhi Rama Rao; A. K. Sahai; R. Sarma; C. Lee; L. Rainville; D. Cherian; K. Cullen; L. R. Centurioni; V. Hormann; J. MacKinnon; U. Send; A. Anutaliya; A. Waterhouse; G. Black; J. Dehart; K. Woods; E. Creegan; Gad Levy; L. H. Kantha; B. Subrahmanyam, 2021: Bay of Bengal Intraseasonal Oscillations and the 2018 Monsoon Onset. *Bulletin of the American Meteorological Society*, DOI: 10.1175/BAMS-D-20-0113.1

Levy, G., N. Kumar, S. Vigundelli & J. Gower, 2020: Interdisciplinary multi-sensor studies of the Pacific and Indian Oceans, *International Journal of Remote Sensing*, to appear.

Geiss, A., G., Levy, and M.R. Ramesh Kumar, 2018: Dynamics of Double Inter-Tropical Convergence Zones over the Western Tropical Indian Ocean and their Relation to the Indian

- Summer Monsoon. Earth and Space Science Open Archive (ESSOAr), DOI: 10.1002/essoar.10500019.1
- Levy, G., S. Vigundelli & J. Gower, 2018: Introduction - Enabling earth observations in support of global, coastal, ocean, and climate change research and monitoring, *International Journal of Remote Sensing*, 39:13, DOI: 10.1080/01431161.2016.1175804
- Levy, G., S. Vigundelli, and J. Gower, 2018: Editors - Enabling earth observations in support of global, coastal, ocean, and climate change research and monitoring. *International Journal of Remote Sensing*, 39: Number 13
- Sun, Q-Y., D. Tang, G. Levy, and P. Shi, 2017: Variability of Aerosol Optical Thickness in the Tropical Indian Ocean and South China Sea during Spring Intermonsoon Season, *International Journal of Remote Sensing*, **38** (special issue). DOI: 10.1080/01431161.2017.1387310
- Katsaros, K. B., G. Levy, A. Bentamy, S. King, J. F. R. Gower, and C. Wilson: TUTORIAL ON REMOTE SENSING FOR CAPACITY BUILDING, Outreach and Broader Impacts session, 26th Symposium on Education, Proceedings of the 97th AMS Annual Meeting, Seattle, WA, January 22–26, 2017. American Meteorological Society.
- Levy, G., S. Vigundelli & J. Gower, 2016: Ocean remote sensing for sustainable resources, *Intl. J. Remote Sensing*, 37:9, pp. 1977-1980, DOI: 10.1080/01431161.2016.1175804
- Levy, G., 2015: Lower-dimensional features in climate models and their fuzzy modeling, Proceedings of the 2015 Annual Conference of the North American Fuzzy Information Processing Society (NAFIPS) & the 5th World Conference on Soft Computing (WConSC). IEEE Xplore Digital Library. DOI: 10.1109/NAFIPS-WConSC.2015.7284120, Electronic ISBN: 978-1-4673-7248-0, USB ISBN: 978-1-4673-7247-3
- Cai, L.N., D. Tang, G. Levy, and D. Liu, 2015: Remote sensing of the impacts of construction in coastal waters on suspended particulate matter concentration – the case of the Yangtze River delta, China, *Intl. J. Remote Sensing*, DOI: 10.1080/01431161.2015.1121302
- Tanaka, T. Levy, G., Gower, J., Nuarsa, W. I., Asriningrum, W, and W. K. Harsanugraha, Editors, 2015: Preface "Ocean Remote Sensing for Sustainable Resources", Proceedings of 12th Biennial Conference of Pan Ocean Remote Sensing Conference (PORSEC) 2014, ISBN 978-602-72335-0-8
- Moscatelli, M., and Levy, G., 2015: Three-dimensional reconstruction of rain rate in atmosphere from X – SAR measurements using tomography, in *Ocean Remote Sensing for Sustainable Resources*, pp. 151-161, ISBN 978-602-72335-0-8.
- Gower, J., and G. Levy, 2014: Ocean remote sensing for well-being of all, *Intl J. Remote Sensing*, **35**:14, 5311-5314, DOI: 10.1080/01431161.2014.941242
- Wan, Q., F. Lin, J. Yuan, W. Ding, and G. Levy, 2014: Numerical Simulation and Forecasting Techniques for Tropical Cyclones in the South China Sea. Chapter 5, 93-130, DOI: 10.13140/2.1.4079.8405. In “*Typhoon Impacts and Crisis Management*”, D. Tang & G. Sui, editors. Springer, ISBN 978-3-642-40694-2
- Patoux, J., and Levy, G., 2013: Space-time interpolation of satellite winds in the Tropics, *J. Geophysical Research, Atmos.*, **118**, 10,405–10,413.
- Geiss, A., and G. Levy, G., 2012: The Use of Automated Feature Extraction for Diagnosing Double Inter-Tropical Convergence Zones. *Computers and Geosciences*, **46**, 73-76, <http://dx.doi.org/10.1016/j.cageo.2012.03.024>.
- Levy, G., and J. Gower, 2012: Connecting Regional Impacts to Global Environmental Change. *International Journal of Remote Sensing*, **33:23**, 7305-7309.
- Ramesh Kumar, M. R., A. Devasthale, S. Syam, S. Bakan, G. Levy, and H Grassl, 2011: On the evolution of double ITCZs over the Indian Ocean as revealed by the synergistic analysis of satellite observations, *International Journal of Remote Sensing*, DOI:10.1080/01431161.2011.625056.
- Levy, G., A. Geiss, and M.R. Ramesh Kumar, 2011: Near-Equatorial Convective Regimes over The Indian Ocean as Revealed by Synergistic Analysis of Satellite Observations. *Advances in Geoscience*, **22** (Atmospheric Science), 101-115.
- Levy, G., M. Coon, G. Nguyen, and D. Sulsky, 2010: Physically Based Data Assimilation,

- Geosci. Model Dev.*, **3**, 669-677, doi:10.5194/gmd-3-669-2010.
- Levy, G and J. Patoux, 2010: Indian Ocean near-equatorial symmetric stability from satellite observations: An elusive connection to atmospheric convection, *International Journal of Remote Sensing*, **31**, 4665-4682.
- Levy, G., and J. Gower, 2010: Preface - Oceanic Manifestation of Global Changes: Satellite Observations of the Atmosphere, Ocean and their Interface *International Journal of Remote Sensing*, **31**, 4509-4514.
- Levy, G., and J. Gower, 2008: Preface Satellite observations of the atmosphere, the ocean and their interface: climate, natural hazards and management of the coastal zone, *International Journal of Remote Sensing*, Vol. 29, No. 21, 6085–6090. ISSN 0143-1161. DOI:10.1080/01431160802302116.
- Levy, G., M. Coon, G. Nguyen, and D. Sulsky, 2008: Metrics for evaluating linear features. *Geophysical Research Letters*, 35, L21705, doi:10.1029/2008GL035086.
- Levy, G., M. Coon, and D. Sulsky, 2006: Metrics for linear kinematic features in sea ice. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., H31D-1462.
- Levy G. and J. C. Alpert, 2005: “Model Sensitivity to Space- and in situ- based sub-grid Flux Parameterization”. 9th Symposium on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS), American Meteorological Society. MS 10.1, 8 pp.
- Levy G. and T. J. Dunkerton, 2004: Satellite Observations of Near-Equatorial Symmetric Instability. *GAYANA, an International Journal of Biodiversity Oceanography, and Conservation*. Vol 68, 420.
- Levy, G. and M.B. Ek, 2003: Wind-wave Relationship in Non-equilibrium Sea States. *Proceedings of IEEE International Geoscience and Remote Sensing Symposium*. 3: 1437-1438.
- Zeng, L. & Levy, G., 2001: Beating the Norm. *Environmental Finance*: 20-23.
- Levy G., and M. B. Ek, 2001: The simulated response of the marine atmospheric boundary layer in the western Pacific warm pool region to surface flux forcing. *J. Geophys. Res.* 106: 7229-7241.
- Levy G., 2001: Boundary Layer Roll Statistics from SAR. *Geophysical Research Letters*. 28(10): 1993-1995.
- Levy, G., 2000: Air-sea fluxes from satellite sensors: calibration, time, space, and scale transitions. *Remote Sensing of the Ocean and Sea Ice*, C. R. Bostater Jr., R. Santoleri, Editors. 4172(SPIE): 1-11.
- Levy, G., 2000: Regional climatology of wind-driven atmospheric boundary layer rolls from SAR observations. *CERSAT News*. Special issue No. 11: 2 pp.
- Contributor. *Glossary of Meteorology*, 2nd Edition. American Meteorological Society, Boston. 2000.
- Levy, G., and D. Vickers, 1999: Surface fluxes from Satellite Winds: Modeling Sub-scale Enhancement from Spatial and Temporal Observations. *J. Geophys. Res.* 104(C9): 20,639-20,650.
- Levy, G., C. Pu, and P. D. Sampson, 1999: Statistical, Physical, and Computational Aspects of Massive Data Analysis and Assimilation in Atmospheric Applications. *J. Computational and Graphical Statistics (JCGS)*. 8(3): 559 – 574.
- Levy, G., C.B. McCandlish, and D. Vickers, 1999: The Relation between Ageostrophy and Boundary Layer Structure in the Western Pacific Trades. *Boundary-Layer Meteorology*. 91(2): 323-335.
- Foster R.C. and G. Levy, 1998: The contribution of organized roll vortices to the surface wind vector in baroclinic conditions. *Journal of the Atmospheric Sciences*. 55(8): 1466-1472.
- Levy, G., 1998: Imaging Boundary Layer Roll Signatures for Climate Application. *IEEE International Geoscience and Remote Sensing Symposium Proceedings*. 3: 1437-1438.
- Levy, G., and R.A. Brown, 1998: Detecting Planetary Boundary Layer Rolls from SAR. *Remote Sensing of the Pacific Ocean by Satellites*. 128-134.
- Levy G. (chapter editor & lead author). *Oceanic Resource Management by Satellite Remote Sensors*, Chapter 5. *Remote Sensing of the Pacific Ocean by Satellites*. PORSEC(Book II):

371-411, 1998.

- Zeng L, G. Levy, 1997: On Temporal Averaging Of Polar Orbiting Satellite Data, *Advances in Space Research*, 19(3), 537-540.
- Levy G., C. Pu, P. D. Sampson, 1997. Massive Data Assimilation/Fusion in Atmospheric Models and Analyses: Statistical, Physical, and Computational Challenges. National Research Council. *Massive Data Sets: Proceedings of a Workshop*. Washington, DC: The National Academies Press, 93-102.
- Levy G, D.S. Battisti, 1995: The symmetric stability and the low level equatorial flow, *The Global Atmosphere and Ocean System*, 3/4, 341-354.
- Zeng L, and G. Levy, 1995: Space and time aliasing structure in mean polar-orbiting satellite data, *Journal of Geophysical Research*, 100(D3), 5133-5142.
- Levy G., 1994: Southern Hemisphere low level wind circulation statistics from the Seasat scatterometer, *Annales Geophysicae*, 12, 65-79.
- Levy G, 1992: Trends in satellite remote sensing of the Planetary Boundary Layer, *Trends in Atmospheric Sciences*, 1, 337-347.
- Levy G, and R. A. Brown, 1991: Southern Hemisphere synoptic weather from a satellite scatterometer, *Monthly Weather Review*, 119, 2803-2813.
- Levy G, and F. S. Tiu, 1990: Thermal advection and stratification effects on surface winds and the low level meridional mass transport, *Journal of Geophysical Research*, 95(C11), 20247-20257.
- Levy G., 1989: Surface dynamics of observed maritime fronts, *Journal of the Atmospheric Sciences*, 46(9), 1219-1232.
- Levy G, and C.S. Bretherton, 1987: On a theory of the evolution of surface cold fronts, *Journal of the Atmospheric Sciences*, 44, 3413-3418.
- McMurdie L.A., G. Levy, and K. B. Katsaros, 1987: On the relationship between scatterometer derived convergence and atmospheric moisture, *Monthly Weather Review*, 115, 1281-1294.
- Brown, R.A, and G. Levy, 1986: Ocean surface pressure fields from satellite sensed winds, *Monthly Weather Review*, 114, 2197-2206.
- Levy, G, and R.A. Brown, 1986: A simple objective analysis scheme for scatterometer data, *Journal of Geophysical Research*, 91, 5153-5158.
- Levy, G, and W.R. Cotton, 1984: A numerical investigation of mechanisms linking glaciation of the ice phase to the boundary layer, *Journal of Climatology and Applied Meteorology*, 23, 1505-1519.

Selected talks, seminars & conference presentations:

- Levy, G., A. Geiss, and M.R. Ramesh Kumar, 2020: Indian Ocean ITCZ States and the Indian Summer Monsoon - Identifying Predictors of Monsoon Breaks. SOLAS (Surface Ocean Lower Atmosphere Study) Indian Ocean meeting, 30 September 2020, Online.
- Levy, G., A. Geiss, and M.R. Ramesh Kumar, 2018: Dynamics of Double Inter-Tropical Convergence Zones over the Western Tropical Indian Ocean and their Relation to the Indian Summer Monsoon. New Insights into the Dynamics of the Western Tropical Indian Ocean session. AGU Ocean Sciences Meeting, 11-16 February 2018, Portland, OR.
- Geiss, A., G. Levy, B. Bede, and M.R. Ramesh-Kumar, 2018: Using machine learning to understand intra-seasonal variability in the Indian summer monsoon and its relation to large scale convective regimes over the Indian Ocean, Session on Machine learning applications to ocean satellite remote sensing, The 14th Pan Ocean Remote Sensing Conference and capacity building tutorial, Nov. 3-7, 2018, Jeju-Island, Republic of Korea.
- Levy, G., A. Geiss, and M.R. Ramesh Kumar, 2018: Indian Ocean Double Inter-Tropical Convergence Zones and The Indian Summer Monsoon. Remote Sensing of the Ocean: Significant dates and current state Scientific Session, Oct. 10-11, 2018, the Pacific Oceanological Institute, Far Eastern Branch, Russian Academy of Science, Vladivostok, Russia.
- Madina-Olade, M, B. Bede, G. Levy and A. Geiss, 2018: Towards improving ENSO predictions using interpretable Takagi-Sugeno fuzzy learning. Session on Machine learning applications to ocean satellite remote sensing, The 14th Pan Ocean Remote Sensing Conference and capacity building tutorial, Nov. 3-7, 2018, Jeju-Island, Republic of Korea.
- Levy, G., A. Geiss, and M.R. Ramesh Kumar, 2018: Predictability of Monsoon Intra seasonal oscillation and its relationship to IO ITCZ structure. The 2nd U.S.-India Colloquium on Earth

- Observations and Sciences for Society and Economy (Ocean and Atmospheric Modeling and Prediction theme Indian Ocean and Monsoon subtopic), National Institute of Oceanography in Goa, India, June 11-13th, 2018.
- Foster, R. C., and G. Levy, 2017: Gridded Tropical Atlantic Ocean Vector Wind Fields From Polar-Orbiting Scatterometers, 29th Conference on Climate Variability and Change, Proceedings of The 97th AMS Annual Meeting, Seattle, WA, January 22–26, 2017. American Meteorological Society.
- Katsaros, K. B., G. Levy, A. Bentamy, S. King, J. F. R. Gower, and C. Wilson (2017): Tutorial on Remote Sensing for Capacity Building, 26th Symposium on Education, Proceedings of The 97th AMS Annual Meeting, Seattle, WA, January 22–26, 2017. American Meteorological Society. (available at: <https://ams.confex.com/ams/97Annual/webprogram/Paper313965.html>)
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Lists of additional publications are available upon request.