

# PIRATA Science Bibliography

Last update: 22 September 2022

“\*” indicates entry is not yet final

## *Peer-reviewed*

### **2023 – 1 publication so far**

Piñango, A., E. Azar, M. Wallner-Kersanach, E. da Costa Machado, G. Martins, T. Peterle, C. Eduardo de Rezende, and M. da Graça Baumgarten, 2023: Influence of the ITCZ and OMZ on the isotopic composition of suspended particulate matter in the western tropical North Atlantic, *J. Mar. Sys.*, 237, 103803, ISSN 0924-7963, <https://doi.org/10.1016/j.jmarsys.2022.103803>.

### **2022 – 18 publications so far**

Aguiar, A. L., M. Marta-Almeida, L. O. Cruz, J. Pereira, M. Cirano, 2022: Forcing mechanisms of the circulation on the Brazilian Equatorial Shelf. *Cont. Shelf Res.*, 247, 104811, <https://doi.org/10.1016/j.csr.2022.104811>.

\*Asharaf, S., D. J. Posselt, F. Said, and C. S. Ruf, 2022: Updates on CYGNSS Ocean Surface Wind Validation in the Tropics. *J. Atmos. Oc. Tech.*, <https://doi.org/10.1175/JTECH-D-21-0168.1>.

Bonou, F., Medeiros, C., Noriega, C., et al. 2022: A comparative study of total alkalinity and total inorganic carbon near tropical Atlantic coastal regions. *J Coast Conserv*, **26**, 31, <https://doi.org/10.1007/s11852-022-00872-5>.

Körner, M., M. Claus, P. Brandt, and F. P. Tuchen, 2022: Sources and Pathways of Intraseasonal Meridional Kinetic Energy in the Equatorial Atlantic Ocean. *Journal of Physical Oceanography*, doi: [10.1175/JPO-D-21-0315.1](https://doi.org/10.1175/JPO-D-21-0315.1).

Foli, B.A.K., K. Appeaning Addo, J. K. Ansong, et al., 2022: Evaluation of ECMWF and NCEP Reanalysis Wind Fields for Long-Term Historical Analysis and Ocean Wave Modelling in West Africa. *Remote Sens Earth Syst Sci*, **5**, 26–45, <https://doi.org/10.1007/s41976-021-00052-3>.

Fu, Y., Brandt, P., Tuchen, F. P., Lübbecke, J. F., & Wang, C. (2022): Representation of the Mean Atlantic Subtropical Cells in CMIP6 Models. *Journal of Geophysical Research: Oceans*, 127(3), e2021JC018191, doi: [10.1029/2021JC018191](https://doi.org/10.1029/2021JC018191).

Giordani, H. and Peyrillé, P., 2022: Dynamics of the Atlantic Marine Intertropical Convergence Zone. *J. Geophys. Res. Atmos.*, **127**, e2021JD036392. <https://doi.org/10.1029/2021JD036392>.

\*Heukamp, F.O., P. Brandt, M. Dengler, F.P. Tuchen, M.J. McPhaden, and J.N. Moum, 2022: Tropical instability waves and wind-forced cross-equatorial flow in the central Atlantic Ocean. *Geophys. Res. Lett.*, <https://doi.org/10.1029/2022GL099325>.

Liang, H., B. Jiang, S. Liang, et al., 2022: A global long-term ocean surface daily/0.05° net radiation product from 1983–2020. *Sci Data*, **9**, 337, <https://doi.org/10.1038/s41597-022-01419-x>.

Moum, J. M., K. G. Hughes, E. L. Shroyer, W. D. Smyth, D. Cherian, S. J. Warner, B. Bourlès, P. Brandt and M. Dengler, 2022: Deep cycle turbulence in the Atlantic and Pacific cold tongues. *Geophys. Res. Lett.*, **49**, e2021GL097345, <https://doi.org/10.1029/2021GL097345>.

- \*Reverdin, G., C. Waelbroeck, C. Pierre, C. Akhoudas, G. Aloisi, M. Benetti, B. Bourlès et al., 2022: The CISE-LOCEAN sea water isotopic database (1998-2021). *Earth Sys. Sci. Data Disc.*, <https://doi.org/10.5194/essd-2022-34>.
- Richter, I., H. Tokinaga, and Y. M. Okumura, 2022. The extraordinary equatorial Atlantic warming in late 2019. *Geophys. Res. Lett.*, **49**, e2021GL095918. <https://doi.org/10.1029/2021GL095918>.
- \*Thandlam, V., 2022: Quantifying uncertainties in CERES/MODIS downwelling radiation fluxes in the global tropical oceans. Research Square, <https://doi.org/10.21203/rs.3.rs-1458712/v1>.
- Tuchen, F. P., P. Brandt, J. Hahn, R. Hummels, G. Krahnemann, B. Bourlès, C. Provost, M. J. McPhaden, and J. M. Toole, 2022: Two decades of full-depth current velocity observations from a moored observatory in the central equatorial Atlantic at 0°N, 23°W. *Front. Mar. Sci.*, **9**, 910979, <https://doi.org/10.3389/fmars.2022.910979>.
- Tuchen, F. P., P. Brandt, J. F. Lübbecke, and R. Hummels, 2022: Transports and Pathways of the Tropical AMOC Return Flow from Argo Data and Shipboard Velocity Measurements. *J. Geophys. Res.: Oc.*, **127**(2), e2021JC018115, <https://doi.org/10.1029/2021JC018115>.
- Vallès-Casanova, I., E. Fraile-Nuez, M. Martín-Rey, E. van Sebille, A. Cabré, A. Olivé-Abelló, and J. L. Pelegrí, 2022: Water Mass Transports and Pathways in the North Brazil-Equatorial Undercurrent Retroflection. *J. Geophys. Res.: Oc.*, **127**, 5, <https://doi.org/10.1029/2021JC018150>.
- Varona, H. L., and M. Araujo, 2022: Hydro-thermodynamic dataset of the Amazon River Plume and North Brazil Current retroflection. *Data in Brief*, **40**, 107705, <https://doi.org/10.1016/j.dib.2021.107705>.
- Vieira, R. E., L. Cotrim da Cunha, L. K. Pinho, A. M. Fernandes, R. Avelina, R. de Almeida Keim, C. Musetti de Assis, T. Veloso Franklin, and J. da Silva Nogueira, 2022: Biogeochemical Characteristics of Western Tropical Atlantic Ocean Water Masses. *Anuario do Instituto de Geociencias*, **45**, 45732, [https://doi.org/10.11137/1982-3908\\_45\\_45732](https://doi.org/10.11137/1982-3908_45_45732).

## 2021 – 14 publications

- Alory, G., C. Y. Da-Allada, S. Djakouré, I. Dadou, J. Jouanno, and D. P. Loemba, 2021: Coastal upwelling limitation by onshore geostrophic flow in the Gulf of Guinea around the Niger River plume. *Front. Mar. Sci.*, **7**, 607216, <https://doi.org/10.3389/fmars.2020.607216>.
- Bingham, F. M. and S. Brodnitz, 2021: Sea surface salinity short-term variability in the tropics. *Ocean Sci.*, **17**, 1437–1447, <https://doi.org/10.5194/os-17-1437-2021>.
- Bingham, F. M., S. Brodnitz, and L. Yu, 2021: Sea surface salinity seasonal variability in the tropics from satellites, gridded in situ products and mooring observations. *Remote Sens.*, **13**, 110, <https://doi.org/10.3390/rs13010110>.
- Brandt, P., J. Hahn, S. Schmidtke, F. P. Tuchen, R. Kopte, R. Kiko, B. Bourlès, R. Czeschel, M. Dengler, 2021: Atlantic Equatorial Undercurrent intensification counteracts warming-induced deoxygenation. *Nature Geoscience*, **14**, 5, 278-282, <https://doi.org/10.1038/s41561-021-00716-1>.
- Castelão, G. P., 2021: A machine learning approach to quality control oceanographic data. *Computers & Geosciences*, **155**, (104803), <https://doi.org/10.1016/j.cageo.2021.104803>.
- Foli, B. A. K., K. A. Addo, J. K. Ansong, and G. Wiafe, 2021: Evaluation of ECMWF and NCEP reanalysis wind fields for long-term historical analysis and ocean wave modelling in West Africa, *Remote Sen. Earth Sys. Sci.*, <https://doi.org/10.1007/s41976-021-00052-3>.

- Good, P., R. Chadwick, C. E. Holloway, J. Kennedy, J. A. Lowe, R. Roehrig, and S. S. Rushley, 2021: High sensitivity of tropical precipitation to local sea-surface temperature. *Nature*, **589**, 408-414, <https://doi.org/10.1038/s41586-020-2887-3>.
- Houndegnonto, O. J., N. Kolodziejczyk, C. Maes, B. Bourlès, C. Y. Da-Allada, N. Reul, 2021: Seasonal variability of freshwater plumes in the eastern Gulf of Guinea as inferred from satellite measurements. *J. Geophys. Res. Oceans*, **126**, 5, <https://doi.org/10.1029/2020JC017041>.
- Imbol Koungue, R. A., and P. Brandt, 2021: Impact of Intraseasonal Waves on Angolan Warm and Cold Events. *J. Geophys. Res. Oceans*, **126**, 4, <https://doi.org/10.1029/2020JC017088>.
- Lefèvre, N., C. Mejia, D. Khvorostyanov, L. Beaumont, U. Koffi, 2021: Ocean circulation drives the variability of the carbon system in the Eastern Tropical Atlantic. *Oceans*, **2**, 126–148, <https://doi.org/10.3390/oceans2010008>.
- Luko, C. D., I. C. A. da Silveira, I. T. Simoes-Sousa, J. M. Araujo, and A. Tandon, 2021: Revisiting the Atlantic South Equatorial Current, *J. Geophys. Res. Oceans*, **126**, e2021JC017387, <https://doi.org/10.1029/2021JC017387>.
- Luo, B., P. J. Minnett, and N. R. Nalli, 2021: Infrared satellite-derived sea surface skin temperature sensitivity to aerosol vertical distribution–field data analysis and model simulations. *Rem. Sens. Environ.*, **252**, <https://doi.org/10.1016/j.rse.2020.112151>.
- Specht, M. S., J. Jungclaus, and J. Bader, 2021: Identifying and characterizing subsurface tropical instability waves in the Atlantic Ocean in simulations and observations. *J. Geophys. Res. Oceans*, **126**, e2020JC017013. <https://doi.org/10.1029/2020JC017013>.
- Yan, Y., L. Zhang, X. Song, G. Wang, and C. Chen, 2021: Diurnal variation in surface latent heat flux and the effect of diurnal variability on the climatological latent heat flux over the tropical oceans. *J. Phys. Oceanogr.*, **51**, 3401-3415, <https://doi.org/10.1175/JPO-D-21-0128.1>.

## 2020 – 15 publications

- Burmeister, K., J. F. Luebbecke, P. Brandt, M. Claus, and J. Hahn, 2020: Fluctuations of the Atlantic North Equatorial Undercurrent and associated changes in oxygen transports. *Geophys. Res. Lett.*, **47**, e2020GL088350, <https://doi.org/10.1029/2020GL088350>.
- Christophersen, J. A., G. Foltz, and R. C. Perez, 2020: Surface expressions of atmospheric thermal tides in the tropical Atlantic and their impact on open-ocean precipitation. *J. Geophys. Res. Atmos.*, **125**, e2019JD031997, <https://doi.org/10.1029/2019JD031997>.
- Deppenmeier, A., R. J. Haarsma, C. van Heerwaarden, and W. Hazeleger, 2020: The Southeastern Tropical Atlantic SST bias investigated with a coupled atmosphere–ocean single-column model at a PIRATA mooring site. *J. Climate*, **33**, 6255–6271, <https://doi.org/10.1175/JCLI-D-19-0608.1>.
- Delpech, A., A. Conchon, O. Titau, and P. Lehodey, 2020: Influence of oceanic conditions in the energy transfer efficiency estimation of a micronekton model. *Biogeosci.*, **17**, 833–850, 2020, <https://doi.org/10.5194/bg-17-833-2020>.
- Dominguez, C., J. M. Done, and C. L. Bruyère, 2020: Easterly wave contributions to seasonal rainfall over the tropical Americas in observations and a regional climate model. *Clim. Dyn.*, **54**, 191–209, <https://doi.org/10.1007/s00382-019-04996-7>.
- Foltz, G. R., R. Hummels, M. Dengler, R. C. Perez, and M. Araujo, 2020: Vertical turbulent cooling of the mixed layer in the Atlantic ITCZ and trade wind regions. *J. Geophys. Res. Oceans*, **125**, 2, <https://doi.org/10.1029/2019JC015529>.
- Hackert, E., R. M. Kovach, A. Molod, G. Vernieres, A. Borovikov, J. Marshak, and Y. Chang, 2020: Satellite sea surface salinity observations impact on El Niño/Southern

- Oscillation predictions: Case studies from the NASA GEOS seasonal forecast system. *J. Geophys. Res. Oceans*, **125**, <https://doi.org/10.1029/2019JC015788>.
- Hummels, R., M. Dengler, W. Rath, G. R. Foltz, F. Schütte, T. Fischer, and P. Brandt, 2020: Surface cooling caused by rare but intense near-inertial wave induced mixing in the tropical Atlantic. *Nature Comm.*, **11**, <https://doi.org/10.1038/s41467-020-17601-x>.
- Lefèvre, N., P. Tyaquicã, D. Veleda, C. Perruche, S. Jan van Gennip, 2020: Amazon river propagation evidenced by a CO<sub>2</sub> decrease at 8°N, 38°W in September 2013. *J. Mar. Sys.*, **211**, 103419, <https://doi.org/10.1016/j.jmarsys.2020.103419>.
- Luo, B., P. J. Minnett, M. Szczodrak, N. R. Nalli, V. R. Morris, 2020: Accuracy assessment of MERRA-2 and ERA-Interim sea surface temperature, air temperature, and humidity profiles over the Atlantic Ocean using AEROSE measurements. *J. Clim.*, **33**, 16, 6889-6909, <https://doi.org/10.1175/JCLI-D-19-0955.1>.
- Mallet, M., F. Solmon, P. Nabat, N. Elguindi, F. Waquet, D. Bouniol, A. M. Sayer, K. Meyer, R. Roehrig, M. Michou, P. Zuidema, C. Flamant, J. Redemann, and P. Formenti, 2020: Direct and semi-direct radiative forcing of biomass-burning aerosols over the southeast Atlantic (SEA) and its sensitivity to absorbing properties: a regional climate modeling study. *Atmos. Chem. Phys.*, **20**, 21, 13191-13216, <https://doi.org/10.5194/acp-20-13191-2020>.
- Radenac, M.-H., J. Jouanno, C. C. Tchamabi, M. Awo, B. Bourlès, S. Arnault, and O. Aumont, 2020: Physical drivers of the nitrate seasonal variability in the Atlantic cold tongue. *Biogeosci.*, **17**, 529-545, <https://doi.org/10.5194/bg-17-529-2020>.
- Sun, Y., W. Perrie, F. Qiao, and G. Wang, 2020: Intercomparisons of high-resolution global ocean analyses: Evaluation of a new synthesis in Tropical Oceans. *J. Geophys. Res. Oceans*, **125**, e2020JC016118, <https://doi.org/10.1029/2020JC016118>.
- Yagi, M. and K. Kutsuwada, 2020: Validation of different global data sets for sea surface wind-stress. *Inter. J. Rem. Sens.*, **41**:15, 6022-6049, <https://doi.org/10.1080/01431161.2020.1714784>.
- Zhou, X., P. Ray, B. S. Barrett, and P.-C. Hui, 2020: Understanding the bias in surface latent and sensible heat fluxes in contemporary AGCMs over tropical oceans. *Clim. Dyn.*, **55**, 2957-2978, <https://doi.org/10.1007/s00382-020-05431-y>.

## 2019 – 17 publications

- Bourlès, B., M. Araujo, M. J. McPhaden, P. Brandt, G. R. Foltz, R. Lumpkin, H. Giordani, F. Hernandez, N. Lefevre, P. Nobre, E. Campos, R. Saravanan, J. Trotte-Duha, M. Dengler, J. Hahn, R. Hummels, J. F. Lubbecke, M. Rouault, L. Cotrim, A. Sutton, M. Jochum, and R. C. Perez, 2019: PIRATA: A sustained observing system for tropical Atlantic climate research and forecasting. *Earth and Space Sci.*, **6**, 577-616, <https://doi.org/10.1029/2018EA000428>.
- Crespo, J., D. Posselt, and S. Asharaf, 2019: CYGNSS Surface Heat Flux Product Development. *Remote Sensing*, **11**, 19, 2294. <https://doi.org/10.3390/rs11192294>.
- Dossa, A. N., C. Y. Da-Allada, G. Herbert, and B. Bourlès, 2019: Seasonal cycle of the salinity barrier layer revealed in the northeastern Gulf of Guinea. *African J. Mar. Sci.*, **41**:2, 163-175, <https://doi.org/10.2989/1814232X.2019.1616612>.
- Endo, C. A. K., D. F. M. Gherardi, L. P. Pezzi, and L. N. Lima, 2019: Low connectivity compromises the conservation of reef fishes by marine protected areas in the tropical South Atlantic. *Sci. Rep.*, **9**, 1, 8634. <https://doi.org/10.1038/s41598-019-45042-0>.
- Foltz G. R., P. Brandt, I. Richter, B. Rodríguez-Fonseca, F. Hernandez, M. Dengler, R. R. Rodrigues, J. O. Schmidt, L. Yu, N. Lefevre, L. C. Da Cunha, M. J., McPhaden, M. Araujo,

- J. Karstensen, J. Hahn, M. Martín-Rey M, C. M. Patricola, P. Poli, P. Zuidema, R. Hummels, R. C. Perez, V. Hatje, J. F. Lübbecke, I. Polo, R. Lumpkin, B. Bourlès, F. E. Asuquo, P. Lehodey, A. Conchon, P. Chang, P. Dandin, C. Schmid, A. Sutton, H. Giordani, Y. Xue, S. Illig, T. Losada, S. A. Grodsky, F. Gasparin, T. Lee, E. Mohino, P. Nobre, R. Wanninkhof, N. Keenlyside, V. Garcon, E. Sánchez-Gómez, H. C. Nnamchi, M. Drévilion, A. Storto, E. Remy, A. Lazar, S. Speich, M. Goes, T. Dorrington, W. E. Johns, J. M. Moum, C. Robinson, C. Perruche, R. B. de Souza, A. T. Gaye AT, J. López-Parages, P.-A. Monerie, P. Castellanos, N. U. Benson, M. N. Hounkonnou, J. T. Duhá, R. Laxenaire, and N. Reul, 2019: The Tropical Atlantic Observing System. *Front. Mar. Sci.*, **6**, 206, <https://doi.org/10.3389/fmars.2019.00206>.
- Fujii, Y., E. Rémy, H. Zuo, P. Oke, G. Halliwell, F. Gasparin, M. Benkiran, N. Loose, J. Cummings, J. Xie, Y. Xue, S. Masuda, G. C. Smith, M. Balmaseda, C. Germaineaud, D. J. Lea, G. Larnicol, L. Bertino, A. Bonaduce, P. Brasseur, C. Donlon, P. Heimbach, Y. Kim, V. Kourafalou, P.-Y. Le Traon, M. Martin, S. Paturi, B. Tranchant, and N. Usui, 2019: Observing System Evaluation Based on Ocean Data Assimilation and Prediction Systems: On-Going Challenges and a Future Vision for Designing and Supporting Ocean Observational Networks. *Front. Mar. Sci.*, **6**, 417, <https://doi.org/10.3389/fmars.2019.00417>.
- Illig, S., and M.-L. Bachèlery, 2019: Propagation of Subseasonal Equatorially-Forced Coastal Trapped Waves down to the Benguela Upwelling System. *Sci. Rep.*, **9**, 5306. <https://doi.org/10.1038/s41598-019-41847-1>.
- Imbol Koungue, R. A., M. Rouault, S. Illig, P. Brandt, and J. Jouanno, 2019: Benguela Niños and Benguela Niñas inforced ocean simulation from 1958 to 2015. *J. Geophys. Res.*, **124**, 5923–5951. <https://doi.org/10.1029/2019JC015013>.
- Lübbecke, J.F., Brandt, P., Dengler, M., R. Kopte, J. Lüdke, I. Richter, M. S. Martins, and P. C. M. Tchipalanga, 2019: Causes and evolution of the southeastern tropical Atlantic warm event in early 2016. *Clim. Dyn.*, **53**, 261-274, <https://doi.org/10.1007/s00382-018-4582-8>.
- Luo, B., P. J. Minnett, C. Gentemann, G. Szczodrak, 2019: Infrared satellite-derived sea surface skin temperature sensitivity to aerosol vertical distribution–Field data analysis and model simulations. *Rem. Sens. Environ.*, **223**, 8-20, <https://doi.org/10.1016/j.jmarsys.2020.103419>.
- Perez, R. C., G. R. Foltz, R. Lumpkin, C. Schmid, 2019: Direct Measurements of Upper Ocean Horizontal Velocity and Vertical Shear in the Tropical North Atlantic at 4°N, 23°W. *J. Geophys. Res. Oceans*, **124**, 6, 4133-4151, <https://doi.org/10.1029/2019JC015064>.
- Ruf, C., S. Asharaf, R. Balasubramaniam, S. Gleason, T. Lang, D. McKague, D. Twigg, and D. Waliser, 2019: In-Orbit Performance of the Constellation of CYGNSS Hurricane Satellites. *Bull. American Meteorol. Soc.*, **100**,10, 2009-2023. <https://doi.org/10.1175/BAMS-D-18-0337.1>.
- Smith S. R., G. Alory, A. Andersson, W. Asher, A. Baker, D. I. Berry, K. Drushka, D. Figurskey, E. Freeman, P. Holthus, T. Jickells, H. Kleta, E. C. Kent, N. Kolodziejczyk, M. Kramp, Z. Loh, P. Poli, U. Schuster, E. Steventon, S. Swart, O. Tarasova, L. Petit de la Villéon, and N. Vinogradova-Shiffer, 2019: Ship-based contributions to global ocean, weather, and climate observing systems. *Front. Mar. Sci.*, **6**, 434. <https://doi.org/10.3389/fmars.2019.00434>.
- Sharma, N., 2019: Retrieval of sea surface salinity from SMAP L-band radiometer: A novel approach for wind speed correction. *Quart. J. Royal Meteorol. Soc.*, **89**, 1-11. <https://doi.org/10.1002/qj.3630>.
- Taboada, F. G., C. A. Stock, S. M. Griffies, J. Dunne, J. G. John, R. J. Small, and H. Tsujino, 2019: Surface winds from atmospheric reanalysis lead to contrasting oceanic forcing and

- coastal upwelling patterns. *Ocean Modelling*, **133**, 79-111, <https://doi.org/10.1016/j.ocemod.2018.11.003>.
- Thandlam, V., and H. Rahaman, 2019: Evaluation of surface shortwave and longwave downwelling radiations over the global tropical oceans. *SN Appl. Sci.*, **1**, 1171. <https://doi.org/10.1007/s42452-019-1172-2>.
- Varona, H. L., D. Veleda, M. Cintra, M. Araujo, 2019: Amazon River plume influence on Western Tropical Atlantic dynamic variability. *Dyn. of Atmos. Oceans*, **85**, 1-15, <https://doi.org/10.1016/j.dynatmoce.2018.10.002>.

## 2018 – 17 publications

- Awo, F. M., G. Alory, C.Y. Da-Allada, T. Delcroix, J. Jouanno, E. Kestenare, and E. Baloïtcha, 2018: Sea surface salinity signature of the tropical Atlantic interannual climatic modes. *J. Geophys. Res. Oceans*, **123**, 7420–7437, <https://doi.org/10.1029/2018JC013837>.
- Evangelista, H., A. Sifeddine, T. Corrège, J. Servain, E. P. Dassié, R. Logato, R. C. Cordeiro, C.-C. Shen, F. Le Cornec, J. Nogueira, B. Segal, A. Castagna, and B. Turcq, 2018: Climatic constraints on growth rate and geochemistry (Sr/Ca and U/Ca) of the coral *Siderastrea stellata* in the Southwest Equatorial Atlantic (Rocas Atoll, Brazil). *Geochem., Geophys., Geosys.*, **19**, 772–786, <https://doi.org/10.1002/2017GC007365>.
- Foltz, G. R., C. Schmid, and R. Lumpkin, 2018: An enhanced PIRATA data set for tropical Atlantic ocean-atmosphere research. *J. Clim.*, **31**, 1499–1524, <https://doi.org/10.1175/JCLI-D-16-0816.1>.
- Greatbatch, R. J., M. Claus, P. Brandt, J.-D. Matthießen, F. P. Tuchen, F. Ascani, M. Dengler, J. Toole, C. Roth, and J. T. Farrar, 2018: Evidence for the maintenance of slowly varying equatorial currents by intraseasonal variability. *Geophys. Res. Lett.*, **45**, 1923–1929, <https://doi.org/10.1002/2017GL076662>.
- Haerter, J. O., and L. Schlemmer, 2018: Intensified Cold Pool Dynamics Under Stronger Surface Heating. *Geophys. Res. Lett.*, **45**, 6229-6310, <https://doi.org/10.1029/2017GL076874>.
- Hartung, K., Svensson, G., Struthers, H., Deppenmeier, A.-L., and Hazeleger, W., 2018: An EC-Earth coupled atmosphere–ocean single-column model (AOSCM.v1\_EC-Earth3) for studying coupled marine and polar processes. *Geosci. Model Dev.*, **11**, 4117-4137, <https://doi.org/10.5194/gmd-11-4117-2018>.
- Kopte, R., P. Brandt, M. Claus, R. J. Greatbatch, and M. Dengler, 2018: Role of equatorial basin-mode resonance for the seasonal variability of the Angola Current at 11°S. *J. Phys. Oceanogr.*, **48**, 261-281, <https://doi.org/10.1175/JPO-D-17-0111.1>.
- Nogueira Neto, A. V., H. Giordani, G. Caniaux, and M. Araujo, 2018: Seasonal and interannual mixed layer heat budget variability in the western tropical Atlantic from Argo floats (2007-2012). *J. Geophys. Res.*, **123**, 5298-5322, <https://doi.org/10.1029/2017JC013436>.
- Rouault, M., S. Illig, J. F. Lübbecke, and R. A. Imbol Koungue, 2018: Origin, development and demise of the 2010-2011 Benguela Niño. *J. Mar. Sys.*, **188**, 39-48, <https://doi.org/10.1016/j.jmarsys.2017.07.007>.
- Sakazaki, T., and K. Hamilton, 2018: Discovery of a lunar air temperature tide over the ocean: a diagnostic of air-sea coupling. *NPJ Clim. and Atmosp. Sci.*, **1**, 25, <https://doi.org/10.1038/s41612-018-0033-9>.
- Scannell, H. A., and M. J. McPhaden, 2018: Seasonal mixed layer temperature balance in the southeastern tropical Atlantic. *J. Geophys. Res.*, **123**, 5557-5570, <https://doi.org/10.1029/2018JC014099>.

- Silva, T., D. Veleda, M. Araujo, and P. Tyaquiçã, 2018: Ocean-atmosphere feedback during extreme rainfall events in eastern Northeast Brazil. *J. Appl. Meteor. Climatol.*, **57**, 1211–1229, <https://doi.org/10.1175/JAMC-D-17-0232.1>.
- Storto, A., M. J. Martin, B. Deremble, and S. Masina, 2018: Strongly Coupled Data Assimilation Experiments with Linearized Ocean–Atmosphere Balance Relationships. *Mon. Wea. Rev.*, **146**, 1233–1257, <https://doi.org/10.1175/MWR-D-17-0222.1>.
- Trolliet, M., J. Walawender, B. Bourlès, A. Boilley, J. Trentmann, P. Blanc, M. Lefevre, and L. Wald, 2018: Estimating downwelling solar irradiance at the surface of the tropical Atlantic Ocean: A comparison of PIRATA measurements against several re-analyses and satellite-derived data sets. *Ocean Sci.*, **14**, 1021–1056, <https://doi.org/10.5194/os-14-1021-2018>.
- Trolliet, M., and L. Wald, 2018: Monthly solar radiation in the tropical Atlantic Ocean: Can its spatial variations be captured by the current configuration of the PIRATA moorings? *Adv. In Sci. and Res.*, **15**, 127–136, <https://doi.org/10.5194/asr-15-127-2018>.
- Tuchen, F. P., P. Brandt, M. Claus, R. Hummels, 2018: Deep intraseasonal variability in the central equatorial Atlantic. *J. Phys. Oceanogr.*, **48**, 2851–2865, <https://doi.org/10.1175/JPO-D-18-0059.1>.
- Weifu, S., W. Jin, Z. Jie, M. Yi, M. Junmin, Y. Lei, and M. Junwei, 2018: A new global gridded sea surface temperature product constructed from infrared and microwave radiometer data using the optimum interpolation method. *Acta Oceanologica Sinica*, **37**, 9, 41–49. <https://doi.org/10.1007/s13131-018-1206-4>.

## 2017 – 23 publications

- Becherer, J., and J. N. Moum, 2017: An efficient scheme for onboard reduction of moored  $\chi$ pod data. *J. of Atm. and Oc. Tech.*, **34**, 2533–2546, <https://doi.org/10.1175/JTECH-D-17-0118.1>.
- Benetti, M., G. Reverdin, G. Aloisi, and Á. Sveinbjörnsdóttir, 2017: Stable isotopes in surface waters of the Atlantic Ocean: Indicators of ocean-atmosphere water fluxes and oceanic mixing processes. *J. Geophys. Res. Oceans*, **122**, 4723–4742, <https://doi.org/10.1002/2017JC012712>.
- Benetti, M., H.C. Steen-Larsen, G. Reverdin, Á.E. Sveinbjörnsdóttir, G. Aloisi, M.B. Berkelhammer, B. Bourlès, D. Bourras, G. de Coetlogon, A. Cosgrove, A.K. Faber, J. Grelet, S. B. Hansen, R. Johnson, H. Legoff, N. Martin, A.J. Peters, T.J. Popp, T. Reynaud, and M.N. Winther, 2017: Stable isotopes in the atmospheric marine boundary layer water vapour over the Atlantic Ocean, 2012–2015, *Nature Scientific Data*, **4**, 160128, <https://doi.org/10.1038/sdata.2016.128>.
- Berry, D. I. and E. C. Kent, 2017: Assessing the health of the in situ global surface marine climate observing system. *Int. J. Climatol.*, **37**, 2248–2259. <https://doi.org/10.1002/joc.4914>.
- Bruto, L., A. Moacyr, C. Noriega, D. Veleda, and N. Lefevre, 2017: Variability of CO<sub>2</sub> fugacity at the western edge of the tropical Atlantic Ocean from the 8°N to 38°W PIRATA buoy. *Dyn. Atmos. Oceans*, **78**, 1–13, <http://doi.org/10.1016/j.dynatmoce.2017.01.003>.
- Centurioni, L., A. Horányi, C. Cardinali, E. Charpentier, and R. Lumpkin, 2017: A Global Ocean Observing System for Measuring Sea Level Atmospheric Pressure: Effects and Impacts on Numerical Weather Prediction. *Bull. Amer. Meteor. Soc.*, **98**, 231–238, <https://doi.org/10.1175/BAMS-D-15-00080.1>.
- Da-Allada, C. Y., J. Jouanno, F. Gaillard, N. Kolodziejczyk, C. Maes, N. Reul, and B. Bourlès, 2017: Importance of the Equatorial Undercurrent on the sea surface salinity in the

- eastern equatorial Atlantic in boreal spring. *J. Geophys. Res. Oceans*, **122**, 521–538, <https://doi.org/10.1002/2016JC012342>.
- Goes, M., E. Babcock, F. Bringas, P. Ortner, and G. Goni, 2017: [The impact of improved thermistor calibration on the Expendable Bathythermograph profile data](#). *J. Atmos. Oceanic Technol.*, **34**, 1947–1961, <https://doi.org/10.1175/JTECH-D-17-0024.1>
- Hao, Z., M. A. Balmaseda, and K. Mogensen, 2017: The new eddy-permitting ORAP5 ocean reanalysis: description, evaluation and uncertainties in climate signals. *Clim. Dyn.*, **49**, 791–811, <https://doi.org/10.1007/s00382-015-2675-1>.
- Imbol Koungue, R. A., S. Illig, and M. Rouault, 2017: Role of interannual Kelvin wave propagations in the equatorial Atlantic on the Angola Benguela Current system. *J. Geophys. Res. Oceans*, **122**, 4685–4703, <https://doi.org/10.1002/2016JC012463>.
- Jouanno, J., O. Hernandez, E. Sanchez-Gomez, & B. Deremble, 2017: Equatorial Atlantic interannual variability and its relation to dynamic and thermodynamic processes, *Earth Syst. Dyn.*, **8**, 1061–1069, <https://doi.org/10.5194/esd-8-1061-2017>.
- Kako, S., A. Okuro, and M. Kubota, 2017: Effectiveness of using multisatellite wind speed estimates to construct hourly wind speed datasets with diurnal variations. *J. Atmos. Oceanic Technol.*, **34**, 631–642, <https://doi.org/10.1175/JTECH-D-16-0179.1>.
- Karagali, I., J. L. Høyer, and C. J. Donlon, 2017: Using a 1-D model to reproduce the diurnal variability of SST. *J. Geophys. Res. Oceans*, **122**, <https://doi.org/10.1002/2016JC012542>.
- Li, H., F. Xu, W. Zhou, D. Wang, J. S. Wright, Z. Liu, and Y. Lin, 2017: Development of a global gridded Argo data set with Barnes successive corrections. *J. Geophys. Res. Oceans*, **122**, 866–889, <https://doi.org/10.1002/2016JC012285>.
- Liu, C., R. P. Allan, M. Mayer, P. Hyder, N. G. Loeb, C. D. Roberts, M. Valdivieso, J. M. Edwards, and P.-L. Vidale, 2017: Evaluation of satellite and reanalysis-based global net surface energy flux and uncertainty estimates. *J. Geophys. Res. Atmos.*, **122**, 6250–6272, <https://doi.org/10.1002/2017JD026616>.
- May, J., C. Rowley, and C. N. Barron, 2017: NFLUX satellite-based surface radiative heat fluxes. Part I: Swath-level products. *J. Appl. Meteor. Climatol.*, **56**, 1025–1041, <https://doi.org/10.1175/JAMC-D-16-0282.1>.
- May, J. C., C. Rowley, and C. N. Barron, 2017: NFLUX Satellite-Based Surface Radiative Heat Fluxes. Part II: Gridded Products. *J. Appl. Meteor. Climatol.*, **56**, 1043–1057, <https://doi.org/10.1175/JAMC-D-16-0283.1>.
- Swain, J., P. A. Umesh, and A. S. N. Murty, 2017: Demonstration of an efficient interpolation technique of inverse time and distance for Oceansat-2 wind measurements at 6-hourly intervals. *The International Journal of Ocean and Climate Systems* **8**, 101, <https://doi.org/10.1177/1759313117736596>.
- Valdivieso, M., K. Haines, M. Balmaseda, Y.-S. Chang, M. Drevillon, N. Ferry, Y. Fujii, A. Kohl, A. Storto, T. Toyoda, X. Wang, J. Waters, Y. Xue, Y. Yin, B. Barnier, F. Hernandez, A. Kumar, T. Lee, S. Masina, and K. A. Peterson, 2017: An assessment of air–sea heat fluxes from ocean and coupled reanalyses. *Clim. Dyn.*, **49**, 983–1008, <https://dx.doi.org/10.1007/s00382-015-2843-3>.
- Xie, P., R. Joyce, S. Wu, S. Yoo, Y. Yarosh, F. Sun, and R. Lin, 2017: Reprocessed, Bias-Corrected CMORPH Global High-Resolution Precipitation Estimates from 1998. *J. Hydrometeor.*, **18**, 1617–1641, <https://doi.org/10.1175/JHM-D-16-0168.1>.
- Wen, C., Y. Xue, A. Kumar, D. Behringer, and L. Yu, 2017: How do uncertainties in NCEP R2 and CFSR surface fluxes impact tropical ocean simulations? *Clim. Dyn.*, **49**, 3327–3344, <https://doi.org/10.1007/s00382-016-3516-6>.



- Zuidema, P., P. Chang, B. Medeiros, B. P. Kirtman, R. Mechoso, E. K. Schneider, T. Toniazzo, I. Richter, R. J. Small, K. Bellomo, P. Brandt, S. de Szoeko, J. T. Farrar, E. Jung, S. Kato, M. Li, C. Patricola, Z. Wang, R. Wood, and Z. Xu, 2016: Challenges and prospects for reducing coupled climate model SST biases in the eastern tropical Atlantic and Pacific oceans: The U.S. CLIVAR eastern tropical oceans synthesis working group. *BAMS*, **97**, 2305-2328, <https://doi.org/10.1175/BAMS-D-15-00274.1>.
- Zuo, H., M. A. Balmaseda, and K. Mogensen, 2017: The new eddy-permitting ORAP5 ocean reanalysis: description, evaluation and uncertainties in climate signals. *Clim. Dyn.* **49**, 791–811, <https://doi.org/10.1007/s00382-015-2675-1>.

## 2016 – 17 publications

- Bonou, F. K., C.D. Noriega, N. Lefèvre, M. Araujo, 2016: Distribution of CO<sub>2</sub> parameters in the Western Tropical Atlantic Ocean. *Dyn. Atmosph. and Oceans*, **73**, 47-60, <https://doi.org/10.1016/j.dynatmoce.2015.12.001>.
- Boutin, J., Y. Chao, W. Asher, T. Delcroix, R. Drucker, K. Drushka, N. Kolodziejczyk, T. Lee, N. Reul, G. Reverdin, J. Schanze, A. Soloviev, L. Yu, J. Anderson, L. Brucker, E. Dinnat, A. Santos-Garcia, W. Jones, C. Maes, T. Meissner, W. Tang, N. Vinogradova, and B. Ward, 2016: Satellite and in situ salinity: understanding near-surface stratification and subfootprint variability. *Bull. Amer. Meteor. Soc.*, **97**, 1391-1407, <http://dx.doi.org/10.1175/BAMS-D-15-00032.1>.
- Brandt, P., M. Claus, R. J. Greatbatch, R. Kopte, J. M. Toole, W. E. Johns, and C. W. Böning, 2016: Annual and semi-annual cycle of equatorial Atlantic circulation associated with basin mode resonance. *J. Phys. Oceanogr.*, **46**, 3011–3029, <https://doi.org/10.1175/JPO-D-15-0248.1>.
- Burmeister, K., P. Brandt, and J. F. Lübbecke, 2016: Revisiting the cause of the eastern equatorial Atlantic cold event in 2009. *J. Geophys. Res. Oceans*, **121**, 4777–4789, <https://doi.org/10.1002/2016JC011719>.
- Castellanos, P., E. J. D. Campos, I. Giddy, and W. Santis, 2016: Inter-comparison studies between high-resolution HYCOM simulation and observational data: The South Atlantic and the Agulhas leakage system. *J. Marine Sys.*, **159**, 76-88, <https://doi.org/10.1016/j.jmarsys.2016.02.010>.
- Claus, M., R. Greatbatch, P. Brandt, and J. Toole, 2016: Forcing of the Atlantic Equatorial Deep Jets Derived from Observations. *J. Phys. Oceanogr.*, **46**, 3549–3562, <https://doi.org/10.1175/JPO-D-16-0140.1>.
- Freeman, E., S. D. Woodruff, S. J. Worley, S. J. Lubker, E. C. Kent, W. E. Angel, D. I. Berry, P. Brohan, R. Eastman, L. Gates W. Gloeden, Z. Ji, J. Lawrimore, N. A. Rayner, G. Rosenhagen, and S. R. Smith, 2016: ICOADS Release 3.0: a major update to the historical marine climate record. *Int. J. Climatol.*, <https://doi.org/10.1002/joc.4775>.
- Herbert, G., B. Bourlès, P. Penven, and J. Grelet, 2016: New insights on the upper layer circulation north of the Gulf of Guinea. *J. Geophys. Res. Oceans*, **121**, 6793–6815, <https://doi.org/10.1002/2016JC01195>.
- Hernandez, O., J. Jouanno, and F. Durand, 2016: Do the Amazon and Orinoco freshwater plumes really matter for hurricane-induced ocean surface cooling?, *J. Geophys. Res. Oceans*, **121**, 2119–2141, <https://doi.org/10.1002/2015JC011021>.
- Hounsou-Gbo, G. A., J. Servain, M. Araujo, E. S. Martins, B. Bourlès, and G. Caniaux, 2016: Oceanic Indices for Forecasting Seasonal Rainfall over the Northern Part of Brazilian Northeast. *American Journal of Climate Change*, **5** (2), 261-274.

- Lefèvre N., D. Veleda, M. Araujo, G. Caniaux, 2016: Variability and trends of carbon parameters at a time-series in the Eastern Tropical Atlantic. *Tellus B*, **68**, 30305, <https://doi.org/10.3402/tellusb.v68.30305>.
- Nalli, N., C. Barnet, T. Reale, Q. Liu, V. Morris, J. Spackman, E. Joseph, C. Tan, B. Sun, F. Tilley, L. Leung, and D. Wolfe, 2016: Satellite Sounder Observations of Contrasting Tropospheric Moisture Transport Regimes: Saharan Air Layers, Hadley Cells, and Atmospheric Rivers. *J. Hydrometeor.*, **17**, 2997–3006, <https://doi.org/10.1175/JHM-D-16-0163.1>.
- Nubi, O. A., B. Bourlès B., C. A. Edokpayi and M. N. Hounkonnou, 2016: On the Nutrient distribution and phytoplankton biomass in the Gulf of Guinea equatorial band as inferred from In-situ measurements. *J. Oceanogr. and Marine Sci.*, **7** (1), 1-11, <https://doi.org/10.5897/JOMS2016.0124>.
- Rugg, A., G. R. Foltz, and R. C. Perez, 2016: Role of mixed layer dynamics in tropical North Atlantic interannual sea surface temperature variability. *J. Climate*, **29**, 8083-8101, <https://doi.org/10.1175/JCLI-D-15-0867.1>.
- Salles, R., P. Mattos, A.-M. Dubois Iorgulescu, E. Bezerra, L. Lima, and E. Ogasawara, 2016: Evaluating temporal aggregation for predicting the sea surface temperature of the Atlantic Ocean. *Ecological Informatics*, **36**, 94-105, <https://dx.doi.org/10.1016/j.ecoinf.2016.10.004>.
- Wenegrat, J. O. and M. J. McPhaden, 2016: A simple analytical model of the diurnal Ekman layer. *J. Phys. Oceanogr.*, **46**, <https://doi.org/10.1175/JPO-D-16-0031.1>.
- Zuidema, P., P. Chang, B. Medeiros, B. Kirtman, R. Mechoso, E. Schneider, T. Toniazzo, I. Richter, R. Small, K. Bellomo, P. Brandt, S. de Szoeki, J. Farrar, E. Jung, S. Kato, M. Li, C. Patricola, Z. Wang, R. Wood, and Z. Xu, 2016: Challenges and Prospects for Reducing Coupled Climate Model SST Biases in the Eastern Tropical Atlantic and Pacific Oceans: The U.S. CLIVAR Eastern Tropical Oceans Synthesis Working Group. *Bull. Amer. Meteor. Soc.*, **97**, 2305–2327, <https://doi.org/10.1175/BAMS-D-15-00274.1>.

## 2015 – 25 publications

- Ascani, François, Eric Firing, Julian P. McCreary, Peter Brandt, and Richard J. Greatbatch, 2015: The Deep Equatorial Ocean Circulation in Wind-Forced Numerical Solutions. *J. Phys. Oceanogr.*, **45**, 1709–1734, <https://doi.org/10.1175/JPO-D-14-0171.1>
- Boilley, A. and L. Wald, 2015: Comparison between meteorological re-analyses from ERA-Interim and MERRA and measurements of daily solar irradiation at surface. *Renewable Energy*, **75**, 135-143.
- Brandt, P., H. W. Bange, D. Banyte, M. Dengler, S.-H. Didwischus, T. Fischer, R. J. Greatbatch, J. Hahn, T. Kanzow, J. Karstensen, A. Körtzinger, G. Krahnmann, S. Schmidtko, L. Stramma, T. Tanhua, and M. Visbeck 2015: On the role of circulation and mixing in the ventilation of oxygen minimum zones with a focus on the eastern tropical North Atlantic. *Biogeosciences*, **12**, 489–512, <https://doi.org/10.5194/bg-12-489-2015>.
- Camara, I., N. Kolodziejczyk, J. Mignot, A. Lazar, and A. T. Gaye, 2015: On the seasonal variations of salinity of the tropical Atlantic mixed layer. *J. Geophys. Res. Oceans*, **120**, 4441–4462, <https://doi.org/10.1002/2015JC010865>.
- Cintra, M. M., C. A.D. Lentini, J. Servain, M. Araujo, and E. Marone, 2015: Physical processes that drive the seasonal evolution of the Southwestern Tropical Atlantic Warm Pool. *Dyn. Atmos. and Oceans*, **72**, 1-11.

- Foltz, G., C. Schmid and R. Lumpkin, 2015: Transport of surface freshwater from the equatorial to the subtropical North Atlantic Ocean. *J. Phys. Oceanogr.*, **45** (4), 1086–1102, <https://doi.org/10.1175/JPO-D-14-0189.1>.
- Giarolla, E., L. S. P. Siqueira, M. J. Bottino, M. Malagutti, V. B. Capistrano, and P. Nobre, 2015: Equatorial Atlantic Ocean dynamics in a coupled ocean–atmosphere model simulation. *Ocean Dynamics*, **65** (6), 831–843.
- Grodsky, S. A., B. K. Johnson, J. A. Carton, and F. O. Bryan, 2015: Interannual Caribbean salinity in satellite data and model simulations. *J. Geophys. Res. Oceans*, **120**, 1375–1387, <https://doi.org/10.1002/2014JC010625>.
- Hounsou-gbo, G. A., M. Araujo, B. Bourlès, D. Veleda, and J. Servain, 2015: Tropical Atlantic contributions to strong rainfall variability along the Northeast Brazilian coast. *Advances in Meteorology*, **2015**, Article ID 902084, <https://doi.org/10.1155/2015/902084>.
- Jin, X., L. Yu, D.L. Jackson, and G.A. Wick, 2015: An Improved Near-Surface Specific Humidity and Air Temperature Climatology for the SSM/I Satellite Period. *J. Atmos. Oceanic Technol.*, **32**, 412–433, <https://doi.org/10.1175/JTECH-D-14-00080.1>.
- Klepp, C., 2015: The Oceanic Shipboard Precipitation Measurement Network for Surface Validation: OceanRAIN. *Atmospheric Res.*, **163**, <https://doi.org/10.1016/j.atmosres.2014.12.014>.
- Kolodziejczyk, N., G. Reverdin, and A. Lazar, 2015: Interannual Variability of the Mixed Layer Winter Convection and Spice Injection in the Eastern Subtropical North Atlantic. *J. Phys. Oceanogr.*, **45**, 504–525, <https://doi.org/10.1175/JPO-D-14-0042.1>.
- Legler, D., H. J. Freeland, R. Lumpkin, G. Ball, M. J. McPhaden, S. North, R. Cowley, G. Goni, U. Send and M. Merrifield, 2015: The current status of the real-time in situ global ocean observing system for operational oceanography. *J. Operational Oceanography*, **8** (S2), 189–200, <https://doi.org/10.1080/1755876X.2015.1049883>
- Lübbecke, J. F., J. V. Durgadoo, and A. Biastoch, 2015: Contribution of Increased Agulhas Leakage to Tropical Atlantic Warming. *J. Climate*, **28**, 9697–9706, <https://doi.org/10.1175/JCLI-D-15-0258.1>.
- Martins, S., M., N. Serra, and D. Stammer, 2015: Spatial and temporal scales of sea surface salinity variability in the Atlantic Ocean. *J. Geophys. Res. Oceans*, **120**, 4306–4323, <https://doi.org/10.1002/2014JC010649>.
- Meynadier, R., G. de Coetlogon, S. Bastin, L. Eymard and S. Janicot, 2015: Sensitivity testing of WRF parameterizations on air–sea interaction and its impact on water cycle in the Gulf of Guinea. *Q. J. R. Meteorol. Soc.*, **141**, 1804–1820, <https://doi.org/10.1002/qj.2483>.
- Penny, S. G., D. W. Behringer, J. A. Carton, and E. Kalnay, 2015: A Hybrid Global Ocean Data Assimilation System at NCEP. *Mon. Wea. Rev.*, **143**, 4660–4677, <https://doi.org/10.1175/MWR-D-14-00376.1>.
- Ricciardulli, L., and F. J. Wentz, 2015: A Scatterometer Geophysical Model Function for Climate-Quality Winds: QuikSCAT Ku-2011. *Journal of Atmospheric and Oceanic Technology*, **32**:10, 1829–1846. <https://doi.org/10.1175/JTECH-D-15-0008.1>.
- Rodríguez-Fonseca, Belen, Elsa Mohino, Carlos R. Mechoso, Cyril Caminade, Michela Biasutti, Marco Gaetani, J. Garcia-Serrano, Edward K. Vizy, Kerry Cook, Yongkang Xue, Irene Polo, Teresa Losada, Leonard Druyan, Bernard Fontaine, Juergen Bader, Francisco J. Doblas-Reyes, Lisa Goddard, Serge Janicot, Alberto Arribas, William Lau, Andrew Colman, M. Vellinga, David P. Rowell, Fred Kucharski, and Aurore Voldoire, 2015: Variability and Predictability of West African Droughts: A Review on the Role of Sea Surface Temperature Anomalies. *J. Climate*, **28**, 4034–4060, <https://doi.org/10.1175/JCLI-D-14-00130.1>

- Sena Martins, M., N. Serra, and D. Stammer, 2015: Spatial and temporal scales of sea surface salinity variability in the Atlantic Ocean. *J. Geophys. Res. Oceans*, **120**, 4306–4323, <https://doi.org/10.1002/2014JC010649>.
- Tchilibou, M., T. Delcroix, G. Alory, S. Arnault, and G. Reverdin, 2015: Variations of the tropical Atlantic and Pacific SSS minimum zones and their relations to the ITCZ and SPCZ rain bands (1979–2009). *J. Geophys. Res. Oceans*, **120**, 5090–5100, <https://doi.org/10.1002/2015JC010836>.
- Veleda, D., R. Montagne, M. Araujo, G. Pereira, P. Tyaquicã, C. Noriega, and F. Lacerda, 2015: Tropical Atlantic variability impacts on the sub-middle São Francisco Valley, a Brazilian wine-producing area. *Global J. Agricult. Res. and Rev.*, **3**, 133–145.
- Wenegrat, J.O., and M.J. McPhaden, 2015: Dynamics of the surface layer diurnal cycle in the equatorial Atlantic Ocean (0°, 23°W). *J. Geophys. Res. Oceans*, **120**, 563–581, <https://doi.org/10.1002/2014JC010504>.
- Wentz, F. J., 2015: A 17-Yr Climate Record of Environmental Parameters Derived from the Tropical Rainfall Measuring Mission (TRMM) Microwave Imager. *Journal of Climate*, **28**:17, 6882–6902, <https://doi.org/10.1175/JCLI-D-15-0155.1>.
- Xiangze, J. L. Yu, D. L. Jackson, and G. A. Wick, 2015: An Improved Near-Surface Specific Humidity and Air Temperature Climatology for the SSM/I Satellite Period. *J. Atmos. Oceanic Technol.*, **32**, 412–433, <https://doi.org/10.1175/JTECH-D-14-00080.1>

## 2014 – 34 publications

- Abe, H., and N. Ebuchi, 2014: Evaluation of sea-surface salinity observed by Aquarius. *J. Geophys. Res. Oceans*, **119**, 8109–8121, <https://doi.org/10.1002/2014JC010094>.
- Araujo, M., D. Veleda, P. R. G. Barrocas, F. F. M. Moraes, R. Montagne, and E. Lopez, 2014: Non-stationary climatic influence of inter-epidemic periods on Dengue in Brazil. In *Safety, Reliability and Risk Analysis: Beyond the Horizon*. Steenbergen et al. (Eds), Taylor & Francis Group, London, ISBN 978-1-138-00123-7.
- Berger, H., A. M. Treguier, N. Perenne, and C. Talandier, 2014: Dynamical contribution to sea surface salinity variations in the eastern Gulf of Guinea based on numerical modelling. *Clim. Dyn.*, **43** (11), 3105–3122, <https://doi.org/10.1007/s00382-014-2195-4>.
- Brandt, P., A. Funk, A. Tantet, W. E. Johns and J. Fischer, 2014: The Equatorial Undercurrent in the central Atlantic and its relation to tropical Atlantic variability. *Clim. Dyn.*, **43** (11), 2985–2997, <https://doi.org/10.1007/s00382-014-2061-4>.
- Brown, P. J. and C. D. Kummerow, 2014: An Assessment of Atmospheric Water Budget Components over Tropical Oceans. *J. Climate*, **27**, 2054–2071, <https://doi.org/10.1175/JCLI-D-13-00385.1>.
- Chakraborty, A., R. Sharma, R. Kumar, and S. Basu, 2014: An OGCM assessment of blended OSCAT winds. *J. Geophys. Res. Oceans*, **119**, 173–186, <https://doi.org/10.1002/2013JC009406>.
- Chakraborty, A., R. Sharma, R. Kumar, and S. Basu, 2014: A SEEK filter assimilation of sea surface salinity from Aquarius in an OGCM: Implication for surface dynamics and thermohaline structure. *Journal of Geophysical Research: Oceans* **119**:8, 4777–4796, <https://doi.org/10.1002/2014JC009984>.
- Da-Allada, C. Y., G. Alory, Y. du Penhoat, J. Jouanno, N. Hounkonnou, and E. Kestenare, 2014: Causes for the recent increase for sea surface salinity in the northeast Gulf of Guinea.

- African J. of Mar. Science*, **36** (2): 197–205, <https://doi.org/10.2989/1814232X.2014.927398>.
- Da-Allada, C.Y., du Penhoat, Y., Jouanno, J., G. Alory, and N. Mahouton, 2014: Modeled mixed-layer salinity balance in the Gulf of Guinea: seasonal and interannual variability. *Ocean Dyn.*, **64**, 1783, <https://doi.org/10.1007/s10236-014-0775-9>.
- Djakouré, S., P. Penven, B. Bourlès, J. Veitch, and V. Koné, 2014: Coastally trapped eddies in the north of the Gulf of Guinea. *J. Geophys. Res.*, **119**, <https://doi.org/10.1002/2014JC010243>.
- Giordani, H., and G. Caniaux, 2014: Frontogenesis in the equatorial front formation in 2006. *Clim. Dyn.*, **43** (11), 3147—3162, <https://doi.org/10.1007/s00382-014-2293-3>.
- Hahn, J., P. Brandt, R. J. Greatbatch, G. Krahnmann and A. Körtzinger, 2014: Oxygen variance and meridional oxygen supply in the Tropical North East Atlantic oxygen minimum zone. *Clim. Dyn.*, **43** (11), 2999—3024, <https://doi.org/10.1007/s00382-014-2065-0>.
- Hummels, R., M. Dengler, P. Brandt, and M. Schlundt, 2014: Diapycnal heat flux and mixed layer heat budget within the Atlantic Cold Tongue. *Clim. Dyn.*, **43** (11), 3179—3199, <https://doi.org/10.1007/s00382-014-2339-6>.
- Grodsky, S. A., J. A. Carton, and F. O. Bryan, 2014: A curious local surface salinity maximum in the northwestern tropical Atlantic. *J. Geophys. Res. Oceans*, **119**, 484–495, <https://doi.org/10.1002/2013JC009450>.
- Grodsky, S. A., G. Reverdin, J. A. Carton, and V. J. Coles, 2014: Year-to-year salinity changes in the Amazon plume: Contrasting 2011 and 2012 Aquarius/SACD and SMOS satellite data. *Remote Sensing of Environment*, **140**, 14–22, <https://doi.org/10.1016/j.rse.2013.08.033>.
- Johns, W. E., P. Brandt, B. Bourlès, A. Tantet, A. Papapostolou and A. Houk, 2014: Zonal Structure and Seasonal Variability of the Atlantic Equatorial Undercurrent. *Clim. Dyn.*, **43** (11), 3047–3069, <https://doi.org/10.1007/s00382-014-2136-2>.
- Johns, W. E., P. Brandt and P. Chang, 2014: Tropical Atlantic variability and coupled model climate biases: results from the Tropical Atlantic Climate Experiment (TACE). *Clim. Dyn.*, **43** (11), 2887, <https://doi.org/10.1007/s00382-014-2392-1>.
- Kolodziejczyk, N., F. Marin, B. Bourlès, Y. Gouriou, and H. Berger, 2014: Seasonal variability of the Equatorial Undercurrent termination and associated salinity maximum in the Gulf of Guinea. *Clim. Dyn.*, **43** (11), 3025—3046, <https://doi.org/10.1007/s00382-014-2107-7>.
- Lee, T., G. Lagerloef, H.-Y. Kao, M. J. McPhaden, J. Willis, and M. M. Gierach, 2014: The influence of salinity on tropical Atlantic instability waves. *J. Geophys. Res. Oceans*, **119**, 8375–8394, <https://doi.org/10.1002/2014JC010100>.
- Lefèvre, N., D. F. Urbano, F. Gallois, and D. Diverrès, 2014: Impact of physical processes on the seasonal distribution of the fugacity of CO<sub>2</sub> in the western tropical Atlantic. *J. Geophys. Res. Oceans*, **119**, 646–663, <https://doi.org/10.1002/2013JC009248>.
- Lübbecke, J. F., N. L. Burls, C. J. C. Reason, and M. J. McPhaden, 2014: Variability in the South Atlantic anticyclone and the Atlantic Niño mode. *J. Climate*, **27**, 8135–8150, <https://doi.org/10.1175/JCLI-D-14-00202.1>.
- Meyers, P. C., L. K. Shay and J. K. Brewster, 2014: Development and Analysis of the Systematically Merged Atlantic Regional Temperature and Salinity Climatology for Oceanic Heat Content Estimates. *J. Atmos. Oceanic Technol.*, **31**, 131–149, <https://doi.org/10.1175/JTECH-D-13-00100.1>.
- Parard, G., J. Boutin, Y. Cuypers, P. Bouruet-Aubertot, and G. Caniaux, 2014: On the physical and biogeochemical processes driving the high frequency variability of CO<sub>2</sub> fugacity

- at 6°S, 10°W: Potential role of the internal waves. *J. Geophys. Res. Oceans*, **119**, 8357–8374, <https://doi.org/10.1002/2014JC009965>.
- Peng, G., J.-R. Bidlot, H. P. Freitag, and C. J. Schreck III, 2014: Directional Bias of TAO Daily Buoy Wind Vectors in the Central Equatorial Pacific Ocean from November 2008 to January 2010. *Data Science Journal*, **13**:0, 79-87, <https://doi.org/10.2481/dsj.14-019>.
- Perez, R., V. Hormann, R. Lumpkin, P. Brandt, W. E. Johns, F. Hernandez, C. Schmid and B. Bourlès, 2014: Mean meridional currents in the central and eastern equatorial Atlantic. *Climate Dynamics*, **43** (11), 2943-2962, <https://doi.org/10.1007/s00382-013-1968-5>.
- Pinker, R. T., A. Bentamy, K. B. Katsaros, Y. Ma, and C. Li, 2014: Estimates of net heat fluxes over the Atlantic Ocean. *J. Geophys. Res. Oceans*, **119**, 410–442, <https://doi.org/10.1002/2013JC009386>.
- Rodrigues, R. R. and M. J. McPhaden, 2014: Why did the 2011-12 La Niña cause a severe drought in the Brazilian Northeast? *Geophys. Res. Lett.*, **41**, 1012–1018, <https://doi.org/10.1002/2013GL058703>.
- Schlundt, M., P. Brandt, M. Dengler, R. Hummels, T. Fischer, K. Bumke, G. Krahnemann, and J. Karstensen, 2014: Mixed layer heat and salinity budgets during the onset of the 2011 Atlantic cold tongue. *J. Geophys. Res.-Oceans*, **119**, 7882–7910, <https://doi.org/10.1002/2014JC010021>.
- Servain, J., G. Caniaux, Y. K. Kouadio, M. J. McPhaden, and M. Araujo, 2014: Recent climatic trends in the tropical Atlantic. *Clim. Dyn.*, **43** (11), 3071—3089, <https://doi.org/10.1007/s00382-014-2168-7>.
- Tang, W., S. H. Yueh, A. G. Fore, and A. Hayashi, 2014: Validation of Aquarius sea surface salinity with in situ measurements from Argo floats and moored buoys. *J. Geophys. Res. Oceans*, **119**, 6171–6189, <https://doi.org/10.1002/2014JC010101>.
- Voldoire, A., M. Claudon, G. Caniaux, H. Giordani, and R. Roehrig, 2014: Are atmospheric biases responsible for the tropical Atlantic SST biases in the CNRM-CM5 coupled model? *Clim. Dyn.*, **43** (11), 2963—2984, <https://doi.org/10.1007/s00382-013-2036-x>.
- Wenegrat, J. O., M. J. McPhaden, and R.-C. Lien, 2014: Wind stress and near-surface shear in the equatorial Atlantic Ocean. *Geophys. Res. Lett.*, **41**, 1226–1231, <https://doi.org/10.1002/2013GL059149>.
- Wild, M., D. Folini, M.Z. Hakuba, C. Schär, S. Seneviratne, S. Kato, D. Rutan, C. Ammann, E. F. Wood, and G. König-Langlo, 2014: The energy balance over land and oceans: an assessment based on direct observations and CMIP5 climate models. *Clim. Dyn.*, **44**(11-12), 3393-3429, <https://doi.org/10.1007/s00382-014-2430-z>.
- Xu, Z., M. Li, C. M. Patricola and P. Chang, 2014: Oceanic origin of southeast tropical Atlantic biases. *Clim. Dyn.*, **43** (11), 2915-2930, <https://doi.org/10.1007/s00382-013-1901-y>.

## 2013 – 27 publications

- Abraham, J. P., et al., 2013: A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. *Rev. Geophys.*, **51**, 450–483, <https://doi.org/10.1002/rog.20022>.
- Da-Allada, C. Y., G. Alory, Y. du Penhoat, E. Kestenare, F. Durand, and N. Hounkonnou, 2013: Seasonal mixed-layer salinity balance in the tropical Atlantic Ocean: Mean state and seasonal cycle, *J. Geophys. Res.*, **118**, 332–345, <https://doi.org/10.1029/2012JC008357>.

- Chakraborty, A. and R. Kumar, 2013: Generation and validation of analysed wind vectors over the global ocean. *Remote Sensing Lett.*, **4** (2), 113-122, <https://doi.org/10.1080/2150704X.2012.701344>.
- Coles, V. J., M. T. Brooks, J. Hopkins, M. R. Stukel, P. L. Yager and R. R. Hood, 2013: The pathways and properties of the Amazon River plume in the tropical North Atlantic Ocean. *J. Geophys. Res.*, **118**, 6894–6913, <https://doi.org/10.1002/2013JC008981>.
- Ferreira, B. P., M.B.S.F. Costa, M.S. Coxey, A.L. Gaspar, D.R.A. Velede and M. Araujo, 2013: The effects of sea surface temperature anomalies on oceanic coral reef systems in the southwestern tropical Atlantic. *Coral Reefs*, **32** (2), 441-454, <https://doi.org/10.1007/s00338-012-0992-y>.
- Foltz, G. R., C. Schmid and R. Lumpkin, 2013: Seasonal cycle of the mixed layer heat budget in the northeastern tropical Atlantic Ocean. *J. Climate*, **26**, 8169-1811, <https://doi.org/10.1175/JCLI-D-13-00037.1>.
- Foltz, G. R., A. T. Evan, H. P. Freitag, S. Brown, and M. J. McPhaden, 2013: Dust accumulation biases in PIRATA shortwave radiation records. *J. Atmos. Ocean. Tech.*, **30**, 1414-1432. <https://doi.org/10.1175/JTECH-D-12-00169.1>.
- Giordani, H., G. Caniaux, and A. Voldoire, 2013: Intraseasonal mixed layer heat budget in the Equatorial Atlantic during the cold tongue development in 2006. *J. Geophys. Res.*, **118** (2), 650–671, <https://doi.org/10.1029/2012JC008280>.
- Goes, M., G. Goni, and K. Keller, 2013: Reducing Biases in XBT Measurements by Including Discrete Information from Pressure Switches. *J. Atmos. Oceanic Technol.*, **30**, 810–824, <https://doi.org/10.1175/JTECH-D-12-00126.1>.
- Hormann, V., R. Lumpkin and R. C. Perez: A generalized method for estimating the structure of the equatorial Atlantic cold tongue: application to drifter observations. *J. Atmos. Oceanic Technol.*, **30**, 1884–1895, <https://doi.org/10.1175/JTECH-D-12-00173.1>.
- Hu, Z-Z, A. Kumar, B. Huang, and J. Zhu, 2013: Leading Modes of the Upper-Ocean Temperature Interannual Variability along the Equatorial Atlantic Ocean in NCEP GODAS. *J. Climate*, **26**, 4649–4663, <https://doi.org/10.1175/JCLI-D-12-00629.1>.
- Hummels, R., M. Dengler, and B. Bourlès, 2013: Seasonal and regional variability of upper ocean diapycnal heat flux in the Atlantic Cold Tongue. *Prog. Oceanogr.*, **111**, 52–74, <https://doi.org/10.1016/j.pocean.2012.11.001>.
- Ivar do Sul, J. A., M. F. Costa, M. Barletta and F. J. A. Cysneiros, 2013: Pelagic microplastics around an archipelago of the Equatorial Atlantic. *Marine Pollution Bulletin*, **75**, 305–309, <https://doi.org/10.1016/j.marpolbul.2013.07.040>.
- Jouanno, J., F. Marin, Y. Du Penhoat, and J.M. Molines, 2013: Intraseasonal modulation of the surface cooling in the Gulf of Guinea. *J. Phys. Oceanogr.*, **43** (2), <https://doi.org/10.1175/JPO-D-12-053.1>.
- Kato, S., N.G. Loeb, F.G. Rose, D.R. Doelling, D.A. Rutan, T.E. Caldwell, L. Yu, and R.A. Weller, 2013: Surface Irradiances Consistent with CERES-Derived Top-of-Atmosphere Shortwave and Longwave Irradiances. *J. Climate*, **26**, 2719–2740, <https://doi.org/10.1175/JCLI-D-12-00436.1>.
- Lefèvre, N., G. Caniaux, and S. Janicot, 2013: Increased CO<sub>2</sub> outgassing in January-March 2010 in the tropical Atlantic following the 2009 Pacific El Niño. *J. Geophys. Res.*, **118** (4), 1645-1657, <https://doi.org/10.1002/jgrc.20107>.
- Lins, I.D., M. Araujo, M.C. Moura, M.A. Silva and E.L. Droguett, 2013: Prediction of Sea Surface Temperature in the Tropical Atlantic by Support Vector Machines. *Computational Statistics and Data Analysis*, **61**:187–198, <https://doi.org/10.1016/j.csda.2012.12.003>.

- Luebbecke, J. and M. J. McPhaden, 2013: A comparative stability analysis of Atlantic and Pacific Niño modes. *J. Climate*, **26**, 5965-5980. <https://doi.org/10.1175/JCLI-D-12-00758.1>.
- Nalli, N. R., et al., 2013: Validation of satellite sounder environmental data records: Application to the Cross-track Infrared Microwave Sounder Suite. *J. Geophys. Res. Atmos.*, **118**, 13,628–13,643, <https://doi.org/10.1002/2013JD020436>.
- Peng, G., H-M Zhang, H. P. Frank, J.-R. Bidlot, M. Higaki, S. Stevens and W. R. Hankins, 2013: Evaluation of Various Surface Wind Products with OceanSITES Buoy Measurements. *Wea. Forecasting*, **28**, 1281–1303, <https://doi.org/10.1175/WAF-D-12-00086.1>.
- Prakash, S., C. Mahesh and R. M. Gairola, 2013: Comparison of TRMM Multi-satellite Precipitation Analysis (TMPA)-3B43 version 6 and 7 products with rain gauge data from ocean buoys. *Remote Sensing Lett.*, **4** (7), 677–685, <https://doi.org/10.1080/2150704X.2013.783248>.
- Praveen Kumar, B., J. Vialard, M. Lengaigne, V.S.N. Murty, M.J. McPhaden, M.F. Cronin, F. Pinsard and K. Gopala Reddy, 2013: TropFlux wind stresses over the tropical oceans: evaluation and comparison with other products. *Clim. Dyn.*, **40**, 2049-2071, <https://doi.org/10.1007/s00382-012-1455-4>.
- Prigent, C., F. Aires, F. Bernardo, J.-C. Orhac, J.-M. Goutoule, H. Roquet, and C. Donlon, 2011: Analysis of the potential and limitations of microwave radiometry for the retrieval of sea surface temperature: Definition of MICROWAT, a new mission concept. *J. Geophys. Res. Oceans*, **118**, 3074–3086, <https://doi.org/10.1002/jgrc.20222>.
- Roehrig, R., D. Bouniol, F. Guichard, F. Hourdin, and J.-L. Redelsperger, 2013: The Present and Future of the West African Monsoon: A Process-Oriented Assessment of CMIP5 Simulations along the AMMA Transect. *J. Climate*, **26**, 6471–6505, <https://doi.org/10.1175/JCLI-D-12-00505.1>.
- Sun, C., and A. H. Monahan, 2013: Statistical Downscaling Prediction of Sea Surface Winds over the Global Ocean. *J. Climate*, **26**, 7938–7956, <https://doi.org/10.1175/JCLI-D-12-00722.1>.
- Wang, K., and R. E. Dickinson, 2013: Global atmospheric downward longwave radiation at the surface from ground-based observations, satellite retrievals, and reanalyses. *Rev. Geophys.*, **51**, 150–185, <https://doi.org/10.1002/rog.20009>.
- While, J., and M. Martin, 2013: Development of a variational data assimilation system for the diurnal cycle of sea surface temperature. *J. Geophys. Res. Oceans*, **118**, 2845–2862, <https://doi.org/10.1002/jgrc.20215>.

## 2012– 27 publications

- Balmaseda, M. A., K. Mogensen and A. T. Weaver, 2012: Evaluation of the ECMWF ocean reanalysis system ORAS4. *Q.J.R. Meteorol. Soc.*, **674**, 1132—1161, <https://doi.org/10.1002/qj.2063>.
- Bentamy, A., S. A. Grodsky, J. A. Carton, D. Croizé-Fillon, and B. Chapron, 2012: Matching ASCAT and QuikSCAT winds. *J. Geophys. Res.*, **117**, C02011, <https://doi.org/10.1029/2011JC007479>.
- Boyer, T., S. Levitus, J. Antonov, J. Reagan, C. Schmid, and R. Locarnini, 2012: Subsurface Salinity. In State of the Climate in 2011, ed. J. Blunden and D. S. Arndt, *Bull. Amer. Meteor. Soc.*, **93**, S1–S282, <https://doi.org/10.1175/2012BAMSStateoftheClimate.1>.
- Brandt, P, R. J. Greatbatch, M. Claus, S-H. Didwischus, V. Hormann, A. Funk, J. Hahn, G. Krahnmann, J. Fischer, and A. Körtzinger, 2012: Ventilation of the equatorial Atlantic



- by the equatorial deep jets. *J. Geophys. Res.*, **117**, C12015, <https://doi.org/10.1029/2012JC008118>.
- Cabanes, C., A. Grouazel, K. von Schuckmann, M. Hamon, V. Turpin, C. Coatanoan, S. Guinehut, C. Boone, N. Ferry, G. Reverdin, S. Pouliquen, and P.-Y. Le Traon, 2012: The CORA dataset: validation and diagnostics of ocean temperature and salinity in situ measurement. *Ocean Sci. Discuss.*, **9**, 1273-1312, <https://doi.org/10.5194/osd-9-1273-2012>.
- Castro, S. L., G. A. Wick, and W. J. Emery, 2012: Evaluation of the relative performance of sea surface temperature measurements from different types of drifting and moored buoys using satellite-derived reference products. *J. Geophys. Res.*, **117**, C02029, <https://doi.org/10.1029/2011JC007472>.
- Embury, O., C. J. Merchant, and G. K. Corlett, 2012: A reprocessing for climate of sea surface temperature from the along-track scanning radiometers: Initial validation, accounting for skin and diurnal variability effects. *Remote Sensing of Environment*, **116**, 62-78, <https://doi.org/10.1016/j.rse.2011.02.028>.
- Foltz, G. R., M. J. McPhaden and R. Lumpkin, 2012: A strong Atlantic Meridional Mode event in 2009: the role of mixed layer dynamics. *J. Climate*, **25**, 363–380, <https://doi.org/10.1175/JCLI-D-11-00150.1>.
- Grodsky, S. A., J. A. Carton, S. Nigam and Y. M. Okumura, 2012: Tropical Atlantic Biases in CCSM4. *J. Climate*, **25**, 3684–3701, <https://doi.org/10.1175/JCLI-D-11-00315.1>.
- Hormann, V., R. Lumpkin and G. Foltz, 2012: Interannual North Equatorial Countercurrent Variability and its Relation to Tropical Atlantic Climate Modes. *J. Geophys. Res.*, **117**, C04035, <https://doi.org/10.1029/2011JC007697>.
- Lefèvre, N. and L. Merlivat, 2012: Carbon and oxygen net community production in the eastern tropical Atlantic estimated from a moored buoy. *Global Biogeochem. Cycles*, **26**, GB1009, <https://doi.org/10.1029/2010GB004018>.
- Lellouche, J.-M., O. Le Galloudec, M. Drévilion, C. Régnier, E. Greiner, G. Garric, N. Ferry, C. Desportes, C.-E. Testut, C. Bricaud, R. Bourdallé-Badie, B. Tranchant, M. Benkiran, Y. Drillet, A. Daudin, and C. De Nicola, 2012, Evaluation of real time and future global monitoring and forecasting systems at Mercator Océan. *Ocean Sci. Discuss.*, **9**, 1123-1185, <https://doi.org/10.5194/osd-9-1123-2012>.
- Luebbecke, J. and M. J. McPhaden, 2012: On the inconsistent relationship between Atlantic and Pacific Niños. *J. Climate*, **25**, 4294-4303, <https://doi.org/10.1175/JCLI-D-11-00553.1>.
- Ma, Y., and R. T. Pinker, 2012: Modeling shortwave radiative fluxes from satellites. *J. Geophys. Res.*, **117**, D23202, <https://doi.org/10.1029/2012JD018332>.
- Merchant, C. J., O. Embury, N. A. Rayner, D. I. Berry, G. K. Corlett, K. Lean, K. L. Veal, E. C. Kent, D. T. Llewellyn-Jones, J. J. Remedios, and R. Saunders, 2012: A 20 year independent record of sea surface temperature for climate from Along-Track Scanning Radiometers. *J. Geophys. Res.*, **117**, C12013, <https://doi.org/10.1029/2012JC008400>.
- Morrissey, M. L., H. J. Diamond, M. J. McPhaden, H. P. Freitag and J. S. Greene, 2012: An Investigation of the Consistency of TAO–TRITON Buoy-Mounted Capacitance Rain Gauges. *J. Atmos. Oceanic Technol.*, **29**, 834–845, <https://doi.org/10.1175/JTECH-D-11-00171.1>.
- Nobre, P., R. A. De Almeida, M. Malagutti, and E. Giarolla, 2012: Coupled Ocean-Atmosphere Variations over the South Atlantic Ocean. *J. Climate*, **25**, 6349–6358, <https://doi.org/10.1175/JCLI-D-11-00444.1>.

- Perez, R. C., R. Lumpkin, W. E. Johns, G. R. Foltz and V. Hormann, 2012: Interannual variations of Atlantic tropical instability waves. *J. Geophys. Res.*, **117**, C03011, <https://doi.org/10.1029/2011JC007584>.
- Praveen Kumar, B., J. Vialard, M. Lengaigne, V. S. N. Murty and M. J. McPhaden, 2012: TropFlux: Air-Sea Fluxes for the Global Tropical Oceans: Description and evaluation. *Clim. Dynamics*, **38**, 1521-1543, <https://doi.org/10.1007/s00382-011-1115-0>.
- Pilotto, I.L., S. C. Chou, and P. Nobre, 2012: Seasonal climate hindcasts with Eta model nested in CPTEC coupled ocean-atmosphere general circulation model. *Theoretical and Applied Climatology*, **110**:3, 437-456, <https://doi.org/10.1007/s00704-012-0633-y>.
- Scott, R.B., C. N. Barron, M. Drévillon, N. Ferry, N. Jourdain, J.-M. Lellouche, E. J. Metzger, M.-H. Rio, and O. M. Smedstad, 2012: Estimates of surface drifter trajectories in the Equatorial Atlantic: a multi-model ensemble approach. *Ocean Modelling*, **67** (7), 1091—1109, <https://doi.org/10.1007/s10236-012-0548-2>.
- Ubelmann, C., J. Verron, J.-M. Brankart, P. Brasseur, and E. Cosme, 2012: Assimilating altimetric data to control the tropical instability waves: an observing system simulation experiment study. *Ocean Dynamics*, **62**:6, 867-880, <https://doi.org/10.1007/s10236-012-0539-3>.
- Veleda, D., R. Montagne and M. Araujo, 2012: Cross wavelet bias corrected by normalizing scales. *J. Atmos. Oceanic Technol.*, **29**, 1401-1408, <https://doi.org/10.1175/JTECH-D-11-00140.1>.
- Vinogradova, N. T. and R. M. Ponte, 2012: Assessing temporal aliasing in satellite-based surface salinity measurements. *J. Atmos. Oceanic Technol.*, **29**, 1391-1400, <https://doi.org/10.1175/JTECH-D-11-00055.1>.
- Xue, Y., M. A. Balmaseda, T. Boyer, N. Ferry, S. Good, I. Ishikawa, A. Kumar, M. Rienecker, A. J. Rosati and Y. Yin, 2012: A Comparative Analysis of Upper Ocean Heat Content Variability from an Ensemble of Operational Ocean Reanalyses. *J. Climate*, **25**, 6905-6925, <https://doi.org/10.1175/JCLI-D-11-00542.1>.
- Yu, L., and X. Jin, 2012: Buoy perspective of a high-resolution global ocean vector wind analysis constructed from passive radiometers and active scatterometers (1987-present). *J. Geophys. Res.*, **117**, C11013, <https://doi.org/10.1029/2012JC008069>.
- Zhu, J., B. Huang and Z. Wu, 2012: The Role of Ocean Dynamics in the Interaction between the Atlantic Meridional and Equatorial Modes. *J. Climate*, **25**, 3583-3598, <https://doi.org/10.1175/JCLI-D-11-00364.1>.

## 2011– 20 publications

- Arruda, W. Z. and C. A. Domingos Lentini, 2011: A remote sensing derived upper ocean heat content dataset for the equatorial Atlantic: comparison with PIRATA project data. *Revisita Brasileira de Geofísica*, **29** (1), 43-56, <https://doi.org/10.1590/S0102-261X2011000100003>.
- Brandt, P., G. Caniaux, B. Bourlès, A. Lazar, M. Dengler, A. Funk, V. Hormann, H. Giordani and F. Marin, 2011: Equatorial upper-ocean dynamics and their interaction with the West African Monsoon. *Atmospheric Science Letters*, **12**, 24-30, <https://doi.org/10.1002/asl.287>.
- Brandt, P., A. Funk, V. Hormann, M. Dengler, R. Greatbatch and J. Toole, 2011: Interannual atmospheric variability forced by the deep equatorial Atlantic Ocean. *Nature*, **473**, 497-500, <https://doi.org/10.1038/nature10013>.

- Burls, N. J., C. J. C. Reason, P. Penven, and S. G. Philander, 2011: Similarities between the tropical Atlantic seasonal cycle and ENSO: An energetics perspective. *J. Geophys. Res.*, **116**, C11010, <https://doi.org/10.1029/2011JC007164>.
- Caniaux, G., H. Giordani, J.L. Redelsperger, F. Guichard, E. Key, and M. Wade, 2011: Coupling between the Atlantic Cold Tongue and the West African Monsoon in boreal Spring and Summer. *J. Geophys. Res.*, **116**, C04003, <https://doi.org/10.1029/2010JC006570>.
- DiNezio, Pedro N., Gustavo J. Goni, 2011: Direct Evidence of a Changing Fall-Rate Bias in XBTs Manufactured during 1986–2008. *J. Atmos. Oceanic Technol.*, **28**, 1569–1578. <https://doi.org/10.1175/JTECH-D-11-00017.1>.
- Giordani, H., and G. Caniaux, 2011: Diagnosing vertical motion at the equatorial Atlantic. *Ocean Dynamics*, **61**, 1995–2018, <https://doi.org/10.1007/s10236-011-0467-7>.
- Jouanno, J., F. Marin, Y. du Penhoat, J. Sheinbaum, and J.-M. Molines, 2011: Seasonal heat balance in the upper 100 m of the equatorial Atlantic Ocean. *J. Geophys. Res.*, **116**, C09003, <https://doi.org/10.1029/2010JC006912>.
- Jouanno, J., F. Marin, Y. Du Penhoat, J.-M. Molines, and J. Sheinbaum, 2011: Seasonal modes of surface cooling in the Gulf of Guinea. *J. Phys. Oceanogr.*, **41**, 1408–1416, <https://doi.org/10.1175/JPO-D-11-031.1>.
- Kako, S., A. Isobe, and M. Kubota, 2011: High-resolution ASCAT wind vector data set gridded by applying an optimum interpolation method to the global ocean. *J. Geophys. Res.*, **116**, D23107, <https://doi.org/10.1029/2010JD015484>.
- Levitus, S., J. Antonov, T. Boyer, J. Reagan and C. Schmid, 2011: Subsurface Salinity. In State of the Climate in 2010, ed. J. Blunden, D. S. Arndt, M. O. Baringer, *Bull. Amer. Meteor. Soc.*, **92** (6), S1-S236, <https://doi.org/10.1175/1520-0477-92.6.S1>.
- Leduc-Leballeur, M., Eymard, L. and de Coëtlogon, G., 2011: Observation of the marine atmospheric boundary layer in the Gulf of Guinea during the 2006 boreal spring. *Q.J.R. Meteorol. Soc.*, **137**, 992–1003, <https://doi.org/10.1002/qj.808>.
- Nalli, N. R., E. Joseph, V. Morris, C. Barnet, W. Wolf, D. Wolfe, P. J. Minnett, M. Szczodrak, M. Izaguirre, R. Lumpkin, H. Xie, A. Smirnov and J. Wei, 2011: Multi-year observations of the tropical Atlantic atmosphere: Multidisciplinary applications of the NOAA Aerosols and Ocean Science Expeditions (AEROSE). *Bull. Amer. Meteor. Soc.*, **92**, 765–789, <https://doi.org/10.1175/2011BAMS2997.1>.
- Prakash, S., Mahesh C., R. M. Gairola, S. Pokhrel, 2011: Surface Freshwater Flux Estimation Using TRMM Measurements Over the Tropical Oceans. *Atmospheric and Climate Sciences*, **01**:04, 225-234, <https://doi.org/10.4236/acs.2011.14025>.
- Santorelli, A., R. T. Pinker, A. Bentamy, K. B. Katsaros, W. M. Drennan, A. M. Mestas-Nuñez, and J. A. Carton, 2011: Differences between two estimates of air-sea turbulent heat fluxes over the Atlantic Ocean. *J. Geophys. Res.*, **116**, C09028, <https://doi.org/10.1029/2010JC006927>.
- Skielka, U. T., J. Soares, A. P. Oliveira and J. Servain, 2011: Diagnostic of the diurnal cycle of turbulence of the Equatorial Atlantic Ocean upper boundary layer. *Natural Science*, **3** (6), 444-455, <https://doi.org/10.4236/ns.2011.36061>.
- Storto, A., S. Dobricic, S. Masina and P. Di Pietro, 2011: Assimilating Along-Track Altimetric Observations through Local Hydrostatic Adjustment in a Global Ocean Variational Assimilation System. *Mon. Wea. Rev.*, **139**, 738–754, <https://doi.org/10.1175/2010MWR3350.1>.
- Wade, M., G. Caniaux, and Y. du Penhoat, 2011: Variability of the mixed layer heat budget in the eastern equatorial Atlantic during 2005–2007 as inferred using Argo floats. *J. Geophys. Res.*, **116**, C08006, <https://doi.org/10.1029/2010JC006683>.
- Woodruff, S. D., S. J. Worley, S. J. Lubker, Z. Ji, J. E. Freeman, D. I. Berry, P. Brohan, E. C. Kent, R. W. Reynolds, S. R. Smith, and C. Wilkinson, 2011: ICOADS Release 2.5: extensions

and enhancements to the surface marine meteorological archive. *International Journal of Climatology*, **31**, 7, 951-967, <https://doi.org/10.1002/joc.2103>.

Yin, Y., O. Alves and P. R. Oke, 2011: An Ensemble Ocean Data Assimilation System for Seasonal Prediction. *Mon. Wea. Rev.*, **139**, 786–808, <https://doi.org/10.1175/2010MWR3419.1>.

## 2010– 18 publications

- Brandt, P., V. Hormann, A. Körtzinger, M. Visbeck, G. Krahnemann, L. Stramma, R. Lumpkin and C. Schmid, 2010: Changes in the ventilation of the oxygen minimum zone of the tropical North Atlantic. *J. Phys. Oceanogr.*, **40** (8), 1784–1801, <https://doi.org/10.1175/2010JPO4301.1>.
- Doi, T., T. Tozuka and T. Yamagata, 2010: The Atlantic Meridional Mode and Its Coupled Variability with the Guinea Dome. *J. Climate*, **23**, 455–475, <https://doi.org/10.1175/2009JCLI3198.1>.
- Foltz, G., and M. J. McPhaden, 2010: Abrupt equatorial wave-induced cooling of the Atlantic cold tongue in 2009. *Geophys. Res. Lett.*, **37** (24), <https://doi.org/10.1029/2010gl045522>.
- Foltz, G. R., and M. J. McPhaden, 2010: Interaction between the Atlantic meridional and Nino modes. *Geophys. Res. Lett.*, L18604, <https://doi.org/10.1029/2010GL044001>.
- Henocq, C., J. Boutin, G. Reverdin, F. Petitcolin, S. Arnault and P. Lattes, 2010: Vertical Variability of Near-Surface Salinity in the Tropics: Consequences for L-Band Radiometer Calibration and Validation. *J. Atmos. Oceanic Technol.*, **27**, 192–209, <https://doi.org/10.1175/2009JTECHO670.1>.
- Hersbach, H., 2010: Comparison of C-Band Scatterometer CMOD5.N Equivalent Neutral Winds with ECMWF. *J. Atmos. Oceanic Technol.*, **27**, 721–736, <https://doi.org/10.1175/2009JTECHO698.1>.
- Koffi, U., N. Lefevre, G. Kouadio and J. Boutin, 2010: Surface CO<sub>2</sub> parameters and air-sea CO<sub>2</sub> flux distribution in the eastern equatorial Atlantic Ocean. *J. Mar. Sys.*, **82**, 135-144, <https://doi.org/10.1016/j.jmarsys.2010.04.010>.
- Lebel, T., D. J. Parker, C. Flamant, B. Bourlès, B. Marticorena, E. Mougin, C. Peugeot, A. Diedhiou, J. M. Haywood, J. B. Ngamini, J. Polcher, J.-L. Redelsperger and C. D. Thorncroft, 2010: The AMMA field campaign: multiscale and multidisciplinary observations in the West African region. *Quart. J. Royal Met. Soc.*, **136**(s1), 8-33, <https://doi.org/10.1002/qj.486>.
- Marullo, S., R. Santoleri, V. Banzon, R. H. Evans, and M. Guarracino, 2010: A diurnal-cycle resolving sea surface temperature product for the tropical Atlantic. *J. Geophys. Res.*, **115**, C05011, <https://doi.org/10.1029/2009JC005466>.
- McPhaden, M. J., K. Ando, B. Bourlès, H. P. Freitag, R. Lumpkin, Y. Masumoto, V. S. N. Murty, P. Nobre, M. Ravichandran, J. Vialard, D. Vousden, W. Yu, 2010: “The global tropical moored buoy array” in *Proceedings of OceanObs’09: Sustained Ocean Observations and Information for Society (Vol. 2)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison, D.E. & Stammer, D., Eds., ESA Publication WPP-306, <https://doi.org/10.5270/OceanObs09.cwp.61>.
- Parard, G., Lefèvre, N. and Boutin, J., 2010: Sea water fugacity of CO<sub>2</sub> at the PIRATA mooring at 6°S, 10°W. *Tellus B*, **62**, 636–648, <https://doi.org/10.1111/j.1600-0889.2010.00503.x>.
- Reynolds, R.W. and D.B. Chelton, 2010: Comparisons of Daily Sea Surface Temperature Analyses for 2007–08. *J. Climate*, **23**, 3545-3562, <https://doi.org/10.1175/2010JCLI3294.1>.

- Rhein, M., M. Dengler, J. Sültenfuß, R. Hummels, S. Hüttl-Kabus, and B. Boulès, 2010: Upwelling and associated heat flux in the equatorial Atlantic inferred from helium isotope disequilibrium. *J. Geophys. Res.*, **115**, C08021, <https://doi.org/10.1029/2009JC005772>.
- Richter, I., S. K. Behera, Y. Masumoto, B. Taguchi, N. Komori, and T. Yamagata, 2010: On the triggering of Benguela Niños: Remote equatorial versus local influences. *Geophys. Res. Lett.*, **37**, L20604, <https://doi.org/10.1029/2010GL044461>.
- Skielka, U. T., J. Soares and A. P. de Oliveira, 2010: Study of the equatorial Atlantic Ocean mixing layer using a one-dimensional turbulence model. *Brazilian J. of Oceanogr.*, **58** (3), 57–69.
- Soldatov, V. Y., N. Costica, and V. F. Krapivin, 2010: Diagnosis of Transition Processes in the Ocean-Atmosphere System. *Control Engineering and Applied Informatics*, **12** (2), 22-29.
- Wade, M., G. Caniaux, Y. duPenhoat, M. Dengler, H. Giordani & R. Hummels, 2010: A one-dimensional modeling study of the diurnal cycle in the equatorial Atlantic at the PIRATA buoys during the EGEE-3 campaign. *Ocean Dynamics*, **61** (1), 1-20, <https://doi.org/10.1007/s10236-010-0337-8>.
- Xu, F., and A. Ignatov, 2010: Evaluation of in situ sea surface temperatures for use in the calibration and validation of satellite retrievals. *J. Geophys.-Res. Oceans*, **115** (C9), <https://doi.org/10.1029/2010JC006129>.

## 2009– 19 publications

- Athie, G., F. Marin, A-M. Treguier, B. Boulès and C. Guiavarc'h, 2009: Sensitivity of near surface Tropical Instability Waves to sub-monthly wind forcing in the tropical Atlantic. *Ocean Modelling*, **30**, 241-255.
- Bourras, D., A. Weill, G. Caniaux, L. Eymard, B. Boulès, S. Letourneur, D. Legain, E. Key, F. Baudin, B. Piguet, O. Traullé, G. Bouhours, B. Sinardet, J. Barié, J.P. Vinson, F. Boutet, and C Berthod: Turbulent air-sea fluxes in the Gulf of Guinea during the EGEE-AMMA experiment. *J. Geophys. Res.*, **114**, C04014, <https://doi.org/10.1029/2008JC004951>.
- Bowman, K. P., C. R. Homeyer and D. G. Stone, 2009: A Comparison of Oceanic Precipitation Estimates in the Tropics and Subtropics. *J. Appl. Meteor. Climatol.*, **48**, 1335–1344, <https://doi.org/10.1175/2009JAMC2149.1>.
- Bunge, L., and A.J. Clarke, 2009: Seasonal Propagation of Sea Level along the Equator in the Atlantic. *J. Phys. Oceanogr.*, **39**, 1069–1074, <https://doi.org/10.1175/2008JPO4003.1>.
- Ding, H., N. S. Keenlyside, and M. Latif, 2009: Seasonal cycle in the upper equatorial Atlantic Ocean. *J. Geophys. Res.*, **114**, C09016, <https://doi.org/10.1029/2009JC005418>.
- Foltz, G.R., and M.J. McPhaden, 2009: Impact of barrier layer thickness on SST in the central tropical North Atlantic. *J. Climate*, **22**(2), 285-299, <https://doi.org/10.1175/2008JCLI2308.1>.
- Galloudec, F. Messal, and L. Parent, 2009: The GODAE/Mercator-Ocean global ocean forecasting system: results, applications and prospects, *J. Operational Oceanography*, **1** (1), 51-57.
- Grodsky, S.A., A. Bentamy, J.A. Carton and R.T. Pinker, 2009: Intraseasonal Latent Heat Flux Based on Satellite Observations. *J. Climate*, **22**, 4539–4556, <https://doi.org/10.1175/2009JCLI2901.1>.

- Hormann, V. and P. Brandt, 2009: Upper equatorial Atlantic variability during 2002 and 2005 associated with equatorial Kelvin waves. *J. Geophys. Res.*, **114**, C03007, <https://doi.org/10.1029/2008JC005101>.
- Kolodziejczyk, N., B. Bourlès, F. Marin, J. Grelet and R. Chuchla, 2009: The seasonal variability of the Equatorial Undercurrent and the South Equatorial Undercurrent at 10°W as inferred from recent in situ observations, *J. Geophys. Res.*, **114**, C06014, <https://doi.org/10.1029/2008JC004976>.
- Large, W. G., and S. G. Yeager, 2009: Global climatology of an interannually varying air-sea flux data set. *Climate Dynamics*, **33** (2-3), 341-364, <https://doi.org/10.1007/s00382-008-0441-3>.
- Marin, F., G. Caniaux, B. Bourlès, H. Giordani, Y. Gouriou and E. Key, 2009: Why were sea surface temperatures so different in the eastern equatorial Atlantic in June 2005 and 2006? *J. Phys. Oceanogr.*, **39**, 1416-1431, <https://doi.org/10.1175/2008JPO4030.1>.
- Pinker, R. T., H. Wang, and S. A. Grodsky, 2009: How good are ocean buoy observations of radiative fluxes? *Geophys. Res. Lett.*, **36**, L10811, <https://doi.org/10.1029/2009GL037840>.
- Portabella, M., A. Stoffelen, 2009: On Scatterometer Ocean Stress. *J. Atmos. Oceanic Technol.*, **26**, 368–382, <https://doi.org/10.1175/2008JTECH0578.1>.
- Rouault, M., J. Servain, C.J.R. Reason, B. Bourlès, and N. Fauchereau, 2009: Extension of PIRATA in the tropical South-East Atlantic: an initial one-year experiment. *African Journal of Marine Science*, **31**(1), 63–71.
- Silva, M., M. Araujo, J. Servain, P. Penven and C. A. D. Lentini, 2009: High-resolution regional ocean dynamics simulation in the southwestern tropical Atlantic. *Ocean Modelling*, **30**, 256–269.
- Silva, M., M. Araujo, J. Servain and P. Penve, 2009: Circulation and Heat Budget in a Regional Climatological Simulation of the Southwestern Tropical Atlantic. *Tropical Oceanography, Recife*, **37** (1–2), 41–57.
- Wallcraft, A. J., A. B. Kara, C. N. Barron, E. J. Metzger, R. L. Pauley and M. A. Bourassa, 2009: Comparisons of monthly mean 10 m wind speeds from satellites and NWP products over the global ocean. *J. Geophys. Res.*, **114**, D16109, <https://doi.org/10.1029/2008JD011696>.
- Wang, H., and R. T. Pinker, 2009: Shortwave radiative fluxes from MODIS: Model development and implementation. *Journal of Geophysical Research*, **114**, D2021, <https://doi.org/10.1029/2008JD010442>.

## 2008– 17 publications

- Athie, G. and Marin, F., 2008: Cross-equatorial structure and temporal modulation of Intra-seasonal variability at the surface of the Tropical Atlantic Ocean. *J. Geophys. Res.*, **113**, C8, <https://doi.org/10.1029/2007JC004332>.
- Bourlès, B., R. Lumpkin, M. J. McPhaden, F. Hernandez, P. Nobre, E. Campos, L. Yu, S. Planton, A. J. Busalacchi, A. D. Moura, J. Servain and J. Trotte, 2008: The PIRATA Program: History, Accomplishments, and Future Directions. *Bulletin of the American Meteorological Society*, **89** (8), <https://doi.org/10.1175/2008BAMS2462.1>.
- Brandt, P., V. Hormann, B. Bourlès, J. Fischer, F. A. Schott, L. Stramma and M. Dengler, 2008: Oxygen tongues and zonal currents in the equatorial Atlantic. *J. Geophys. Res.*, **113**, C04012, <https://doi.org/10.1029/2007JC004435>.
- Bunge L., C. Provost, L. Hua and A. Kartavstseff, 2008: Variability at intermediate depths at the equator in the Atlantic Ocean in 2000-2006: annual cycle, equatorial deep jets

- and intraseasonal meridional velocity fluctuations *J. Phys. Oceanogr.*, **38**, 1794-1806, <https://doi.org/10.1175/2008JPO3781.1>.
- Drévilion, M., R. Bourdallé-Badie, C. Derval, Y. Drillet, J.-M. Lellouche, E. Rémy, B. Tranchant, M. Benkiran, E. Greiner, S. Guinehut, N. Verbrugge, G. Garric, C.-E. Testut, M. Laborie, L. Nouel, P. Bahurel, C. Bricaud, L. Crosnier, E. Dombrowsky, E. Durand, N. Ferry, F. Hernandez, O. Le Galloudec, F. Messal, and L. Parent, 2008: The GODAE/Mercator-Ocean global ocean forecasting system: results, applications and prospects, *J. Op. Oceanogr.*, **1** (1), 51-57.
- Foltz, G.R. and M.J. McPhaden, 2008: Seasonal mixed layer salinity balance of the tropical North Atlantic Ocean. *J. Geophys. Res.*, **113**, C02013, <https://doi.org/10.1029/2007JC004178>.
- Foltz, G.R., and M.J. McPhaden, 2008: Impact of Saharan dust on tropical North Atlantic SST. *J. Climate*, **21**, 5048-5060, <https://doi.org/10.1175/2008JCLI2232.1>.
- Han, W., P.J. Webster, J.L. Lin, W.T. Liu, R. Fu, D. Yuan, and A. Hu, 2008: Dynamics of Intraseasonal Sea Level and Thermocline Variability in the Equatorial Atlantic during 2002–03. *J. Phys. Oceanogr.*, **38**, 945–967, <https://doi.org/10.1175/2008JPO3854.1>.
- Kara, A. B., A. J. Wallcraft, and M. A. Bourassa, 2008: Air-sea stability effects on the 10 m winds over the global ocean: Evaluations of air-sea flux algorithms. *J. Geophys. Res.*, **113**, C04009, <https://doi.org/10.1029/2007JC004324>.
- Lefèvre, N., A. Guillot, L. Beaumont, and T. Ganguy, 2008: Variability of fCO<sub>2</sub> in the Eastern Tropical Atlantic from a moored buoy. *J. Geophys. Res.*, **113**, C01015, <https://doi.org/10.1029/2007JC004146>.
- Pimenta, F., W. Kempton and R. Garvine, 2008: Combining meteorological stations and satellite data to evaluate the offshore wind power resource of Southeastern Brazil. *Renewable Energy*, **33** (11), 2375—2387.
- Polo, I., A. Lazar, B. Rodriguez-Fonseca, and S. Arnault, 2008: Oceanic Kelvin Waves and Tropical Atlantic intraseasonal Variability. Part I: Kelvin wave characterization. *J. Geophys. Res.*, **113**, C07009, <https://doi.org/10.1029/2007JC004495>.
- Reverdin, G., F. Marin, B. Bourlès and P. L'Herminier, 2008: XBT temperature errors during French research cruises (1999-2007). *J. Atm. Oc. Tech.*, **26**(11), 2462–2473, <https://doi.org/10.1175/2009JTECHO655.1>.
- Sato, O. T., and P. S. Polito, 2008: Influence of salinity on the interannual heat storage trends in the Atlantic estimated from altimeters and Pilot Research Moored Array in the Tropical Atlantic data. *J. Geophys. Res.*, **113**, C02008, <https://doi.org/10.1029/2007JC004151>.
- Sukova, A. I., V. Yu. Soldatova, V. F. Krapivinc, A. P. Cracknell and C. A. Varotsos, 2008: A sequential analysis method for the prediction of tropical hurricanes. *Int. J. of Remote Sensing*, **29** (9), 2787-2798, <https://doi.org/10.1080/01431160801927228>.
- Urbano, D. F., R. A. F. De Almeida, and P. Nobre, 2008: Equatorial Undercurrent and North Equatorial Countercurrent at 38°W: A new perspective from direct velocity data, *J. Geophys. Res.*, **113**, C04041, <https://doi.org/10.1029/2007JC004215>.
- von Schuckmann, K., P. Brandt, C. Eden, 2008: Generation of Tropical Instability Waves in the Atlantic Ocean, *J. Geophys. Res.*, **113**, C08034, <https://doi.org/10.1029/2007JC004712>.

## 2007– 9 publications

- Balmaseda, M.A., D. P. Dee, A. P. Vidard and D. L. T. Anderson, 2007: A multivariate treatment of bias for sequential data assimilation: Application to the Tropical Oceans. *Q. J. Roy. Meteor. Soc.*, **133**(622), 167-179.
- Baklouti, M., J.-L. Devenon, A. Bourret, J.-M. Froidefond, J.-F. Ternon, and J.-L. Fuda, 2007: New insights in the French Guiana continental shelf circulation and its relation to the North Brazil Current retroflexion. *J. Geophys. Res.*, **112**, C02023, <https://doi.org/10.1029/2006JC003520>.
- Bunge, L., C. Provost, and A. Kartavtseff, 2007: Variability in horizontal current velocities in the central and eastern equatorial Atlantic in 2002. *J. Geophys. Res.*, **112**, C02014, <https://doi.org/10.1029/2006JC003704>.
- Clayson, C. A. and D. Weitlich, 2007: Variability of tropical diurnal sea surface temperature. *J. Climate*, **20**, 334-352, <https://doi.org/10.1175/JCLI3999.1>.
- Etienne, H., and M. Benkiran, 2007: Multivariate assimilation in Mercator project: New statistical parameters from forecast error estimation. *J. Mar. Sys.*, **65**(1-4), 430-449.
- Kara, A. B., and C. N. Barron, 2007: Fine-resolution satellite-based daily sea surface temperatures over the global ocean. *J. Geophys. Res.*, **112**, C05041, <https://doi.org/10.1029/2006JC004021>.
- Rouault, M., S. Illig, C. Bartholomae, C.J.C. Reason and A. Bentamy, 2007: Propagation and origin of warm anomalies in the Angola Benguela upwelling system in 2001. *J. Mar. Syst.*, **68**, 477-488.
- Vidard, A., D. L. T. Anderson, and M. Balmaseda, 2007: Impact of ocean observation systems on ocean analysis and seasonal forecasts. *Mon. Weather Rev.*, **135**(2), 409-429, <https://doi.org/10.1175/MWR3310.1>.
- Yu, L., R.A. Weller, 2007: Objectively Analyzed air-sea heat Fluxes (OAFlux) for the global ice-free oceans. *Bull. Amer. Meteor. Soc.*, **88**(4), 527-539, <https://doi.org/10.1175/BAMS-88-4-527>.

## 2006– 12 publications

- Andrew, J. A. M., H. Leach, and P. L. Woodworth, 2006: The relationships between tropical Atlantic sea level variability and major climate indices. *Ocean Dynamics*, **56** (5-6), 452-463, <https://doi.org/10.1007/s10236-006-0068-z>.
- Arhan, M., A. M. Tréguier, B. Bourlès, and S. Michel, 2006: Diagnosing the annual cycle of the equatorial undercurrent in the Atlantic ocean from a general circulation model. *J. Phys. Oceanogr.*, **36**, 1502-1522, <https://doi.org/10.1175/JPO2929.1>.
- Bunge L., C. Provost, J. Lilly, M. D'Orgeville, A. Kartavtseff and J.L. Melice, 2006: Structure of the horizontal velocity in the first 1600 m of the water column at the equator in the Atlantic at 10°W, *J.Phys..Oceanogr.*, **36**, 1287-1304, <https://doi.org/10.1175/JPO2908.1>.
- Brandt, P., F. A. Schott, C. Provost, A. Kartavtseff, V. Hormann, B. Bourlès, and J. Fischer, 2006: Circulation in the central equatorial Atlantic: Mean and intraseasonal to seasonal variability. *Geophys. Res. Lett.*, **33**(7), <https://doi.org/10.1029/2005GL025498>.
- Chang, P., T. Yamagata, P. Schopf, S.K. Behera, J. Carton, W.E. Kessler, G. Meyers, T. Qu, F. Schott, S. Shetye, and S.P. Xie, 2006: Climate fluctuations of Tropical Coupled Systems – The Role of Ocean Dynamics. *J. Climate (Special Section)*, **19**, 5122-5174, <https://doi.org/10.1175/JCLI3903.1>.
- Foltz, G.R., and M.J. McPhaden, 2006: Unusually warm sea surface temperatures in the tropical North Atlantic during 2005. *Geophys. Res. Lett.*, **33**, L19703, <https://doi.org/10.1029/2006GL027394>.



- Okumura, Y. and S. P. Xie, 2006: Some Overlooked Features of Tropical Atlantic Climate Leading to a New Niño-Like Phenomenon. *J. Climate*, **19**, 5859–5874, <https://doi.org/10.1175/JCLI3928.1>.
- Peter, A.C., M. Le Henaff, Y. du Penhoat, C.E. Menkes, F. Marin, J. Vialard, G. Caniaux, and A. Lazar, 2006: A model study of the seasonal mixed layer heat budget in the equatorial Atlantic. *J. Geophys. Res.*, **111**, C06014, <https://doi.org/10.1029/2005JC003157>.
- Reason, C. J. C. and M. Rouault, 2006: Sea surface temperature variability in the tropical southeast Atlantic Ocean and West African rainfall. *Geophys. Res. Lett.*, **33**, L21705, <https://doi.org/10.1029/2006GL027145>.
- Siqueira, L. S. P. and P. Nobre, 2006: Tropical Atlantic Sea Surface Temperature and heat flux simulations in a coupled GCM. *Geophys. Res. Lett.*, **33**, L15708, <https://doi.org/10.1029/2006GL026528>.
- Stockdale, T.N, M.A. Balmaseda, and A.P. Vidard, 2006: Tropical Atlantic SST prediction with coupled ocean-atmosphere GCMs. *J. Climate*, **19**(23), 6047-6061, <https://doi.org/10.1175/JCLI3947.1>.
- Yu, L., X. Jin, and R.A. Weller, 2006: Role of net surface heat flux in seasonal variations of sea surface temperature in the tropical Atlantic Ocean. *J. Climate*, **19**, 6153–6169, <https://doi.org/10.1175/JCLI3970.1>.

## 2005– 12 publications

- Belyaev, K. P. and C. A. S. Tanajura, 2005: On the correction of perturbations due to data assimilation in ocean circulation models. *Applied Mathematical Modelling*, **29** (7), 690-709, <https://doi.org/10.1016/j.apm.2004.10.001>.
- Brut, A., A. Butet, P. Durand, G. Caniaux, and S. Planton, 2005: Estimations of turbulent air-sea fluxes and their parameterizations including airflow distortion corrections from the EQUALANT99 dataset, *Quart. J. Roy. Meteor. Soc.*, **131**, 2497–2538.
- Clauzet G., I. Wainer, et J. Servain, 2005: Times-scales of variability from the high frequency PIRATA data revealed by wavelet analysis. *Braz. J. Meteorol.*, **20**(1), 43-58.
- Delcroix, T., M.J. McPhaden, A. Dessier, and Y. Gouriou, 2005: Time and space scales for sea surface salinity in the tropical oceans. *Deep-Sea Res.*, **52**, 787-813.
- Durand B., Servain J., Laurent H., and Machado L. A., 2005: Tropical Atlantic moisture flux, Convection over Northeastern Brazil, and pertinence of the PIRATA network, *J. Climate.*, **18**(12), 2093-2101, <https://doi.org/10.1175/JCLI3400.1>.
- Enfield, D. and S. Lee, 2005: The heat balance of the western hemisphere warm pool. *J. Climate.*, **18**, 2662-2681, <https://doi.org/10.1175/JCLI3427.1>.
- Foltz, G.R., and M.J. McPhaden, 2005: Mixed layer heat balance on intraseasonal time scales in the northwestern tropical Atlantic Ocean. *J. Climate*, **18**, 4168-4184, <https://doi.org/10.1175/JCLI3531.1>.
- Giarolla, E., P. Nobre, M. Malagutti, and P. Pezzi, The Atlantic Equatorial Undercurrent: PIRATA observations and simulations with GFDL Modular Ocean Model at CPTEC, 2005: *Geophys. Res. Lett.*, **32**, L10617, <https://doi.org/10.1029/2004GL022206>.
- Grodsky, S., J. Carton, C. Provost, J. Servain, J. Lorenzetti, and M.J. McPhaden, 2005: Tropical instability waves at 0N, 23W in the Atlantic: A case study using Pilot Research Moored Array in the Tropical Atlantic (PIRATA) mooring data. *J. Geophys. Res.*, **110**, C08010, <https://doi.org/10.1029/2005JC00294>.
- Jiang, H. H. Wang, and D. Wu, 2005: Evaluation of monthly turbulent heat fluxes from WHOI analysis and NCEP reanalysis in the tropical Atlantic. *Acta Oceanologica Sinica*, **24** (5), 14-26.

- Jo, Y.-H., X.-H. Yan, B. Dzwonkowski, and W. T. Liu, 2005: A study of the freshwater discharge from the Amazon River into the tropical Atlantic using multi-sensor data. *Geophys. Res. Lett.*, **32**, L02605, <https://doi.org/10.1029/2004GL021840>.
- Lumpkin R, and Z. Garraffo, 2005: Evaluating the Decomposition of Tropical Atlantic Drifter Observations. *J. Atmos. and Oceanic Technol.* **22**(9), 1403-1415, <https://doi.org/10.1175/JTECH1793.1>.

## 2004– 11 publications

- Dourado, M., and G. Caniaux, 2004: One-dimensional modelling of the oceanic boundary layer using PIRATA data at 10S, 10W. *Revista Brasileira de Meteorologia*, **19**(2), 217-226.
- Foltz, G.R., S.A. Grodsky, J.A. Carton, and M.J. McPhaden, 2004: Seasonal salt budget of the northwestern tropical Atlantic Ocean along 38°W. *J. Geophys. Res.*, **109**, C03052, <https://doi.org/10.1029/2003JC002111>.
- Foltz G. R., M. J. McPhaden, 2004: The 30-70 day oscillations in the tropical Atlantic, *Geophys. Res. Lett.*, **31**, L15205, <https://doi.org/10.1029/2004GL020023>.
- Franca, G.B. and W. S. Carvalho, 2004: Sea surface temperature GOES-8 estimation approach for the Brazilian coast. *Int. Journal of Remote Sensing*, **25** (17), 3439-3450, <https://doi.org/10.1080/01431160310001632738>.
- Gentemann, C.L., F.J. Wentz, C.A. Mears, and D.K. Smith, 2004: In situ validation of Tropical Rainfall Measuring Mission microwave sea surface temperatures. *J. Geophys. Res.*, **109**, C04021, <https://doi.org/10.1029/2003JC002092>.
- Jochum, M., Malanotte-Rizzoli, P., and Busalacchi, A. J, 2004: Tropical instability waves in the Atlantic Ocean. *Ocean Modelling*, **7**, 145–163.
- Provost, C., S. Arnault, N. Chouaib, A. Kartavtseff, L. Bunge, and E. Sultan, 2004: Topex-Poseidon and JASON equatorial sea surface slope anomaly in the Atlantic in 2002: comparison with wind and current measurements at 23°W. *Mar. Geodesy*, **27**, 31-45.
- Serra, Y.L., and M.J. McPhaden, 2004: In Situ Observations of Diurnal Variability in Rainfall over the Tropical Pacific and Atlantic Oceans. *J. Climate*, **17**(18), 3496–3509, [https://doi.org/10.1175/1520-0442\(2004\)017<3496:ISOODV>2.0.CO;2](https://doi.org/10.1175/1520-0442(2004)017<3496:ISOODV>2.0.CO;2).
- Vauclair, F., du Penhoat, Y., Reverdin, G., 2004: Heat and Mass Budgets of the Warm Upper Layer of the Tropical Atlantic Ocean in 1979–99. *J. Phys. Oceanogr.*, **34**(4), 903–919, [https://doi.org/10.1175/1520-0485\(2004\)034%3C0903:HAMBOT%3E2.0.CO;2](https://doi.org/10.1175/1520-0485(2004)034%3C0903:HAMBOT%3E2.0.CO;2).
- Yu, L. S., R. A. Weller, and B. M. Sun, 2004: Mean and variability of the WHOI daily latent and sensible heat fluxes at in situ flux measurement sites in the Atlantic Ocean. *J. Climate*, **17**(11), 2096-2118, [https://doi.org/10.1175/1520-0442\(2004\)017%3C2096:MAVOTW%3E2.0.CO;2](https://doi.org/10.1175/1520-0442(2004)017%3C2096:MAVOTW%3E2.0.CO;2).
- Yu, L. S., R. A. Weller, and B. M. Sun, 2004: Improving Latent and Sensible Heat Flux Estimates for the Atlantic Ocean (1988–99) by a Synthesis Approach. *J. Climate*, **17**(2), 373–393, [https://doi.org/10.1175/1520-0442\(2004\)017%3C0373:ILASHF%3E2.0.CO;2](https://doi.org/10.1175/1520-0442(2004)017%3C0373:ILASHF%3E2.0.CO;2).

## 2003– 10 publications

- Foltz, G.R., S.A. Grodsky, J.A. Carton, and M.J. McPhaden, 2003: Seasonal mixed layer heat budget of the tropical Atlantic Ocean. *J. Geophys. Res.*, **108**(C5), <https://doi.org/10.1029/2002JC001584>.
- Garzoli, S. L. and J. Servain, 2003: CLIVAR workshop on tropical Atlantic variability, *Geophys. Res. Lett.*, **30**(5), 8001, <https://doi.org/10.1029/2002GL016823>.

- Molinari, R. L., S. Bauer, D. Snowden, G. C. Johnson, B. Bourlès, Y. Gouriou, and H. Mercier, 2003: A comparison of kinematic evidence for tropical cells in the Atlantic and Pacific oceans. In *Interhemispheric Water Exchange in the Atlantic Ocean*, eds. G. J. Goni and P. Manalotte-Rizzoli, Elsevier Oceanography Series, **68**, 269-286.
- Schott, F. A., M. Dengler, P. Brandt, K. Affler, J. Fischer, B. Bourlès, Y. Gouriou, R.L. Molinari, and M. Rhein, 2003: The zonal currents and transports at 35°W in the tropical Atlantic. *Geophys. Res. Lett.* **30**(7), 1349, <https://doi.org/10.1029/2002GL016849>.
- Serra, Y. L., and M. J. McPhaden, 2003: Multiple time- and space-scale comparisons of ATLAS buoy rain gauge measurements with TRMM satellite precipitation measurements. *J. Applied Meteor.*, **42**(8), 1045-1059.
- Servain, J., G. Clauzet, and I. C. Wainer, 2003: Modes of tropical Atlantic climate variability observed by PIRATA, *Geophys. Res. Lett.*, **30**(5), 8003, <https://doi.org/10.1029/2002GL01512>.
- Sun, B., L. Yu, and R. A. Weller, 2003: Comparisons of surface meteorology and turbulent heat fluxes over the Atlantic: NWP model analyses versus moored buoy observations. *J. Climate*, **16**, 679-695, [https://doi.org/10.1175/1520-0442\(2003\)016%3C0679:COSMAT%3E2.0.CO;2](https://doi.org/10.1175/1520-0442(2003)016%3C0679:COSMAT%3E2.0.CO;2).
- Vianna, M. L., and V. V. de Menezes, 2003: A seasonal and interannual study of the western equatorial Atlantic upper thermocline circulation variability. In *Interhemispheric Water Exchange in the Atlantic Ocean*, eds. G. J. Goni and P. Manalotte-Rizzoli, Elsevier Oceanography Series, **68**, 137-173.
- Wainer, I., G. Clauzet, J. Servain and J. Soares, 2003: Time scales of upper ocean temperature variability inferred from the PIRATA data (1997-2000). *Geophys. Res. Lett.*, **30**(5), 8004, <https://doi.org/10.1029/2002GL015147>.
- Weill, A., L. Eymard, G. Caniaux, D. Hauser, S. Planton, H. Dupuis, A. Brut, C. Guerin, P. Cacass, A. Butet, S. Choche, R. Pedreros, P. Durand, D. Bourras, H. Giordani, G. Lachaud and G. Bouhours, 2003: Toward a Better Determination of Turbulent Air–Sea Fluxes from Several Experiments. *J. Climate*, **16**(4), 600–618, [https://doi.org/10.1175/1520-0442\(2003\)016%3C0600:TABDOT%3E2.0.CO;2](https://doi.org/10.1175/1520-0442(2003)016%3C0600:TABDOT%3E2.0.CO;2).

## 2002–4 publications

- Bourlès, B., M. d'Orgeville, G. Eldin, Y. Gouriou, R. Chuchla, Y. DuPenhoat, and S. Arnault, 2002: On the evolution of the thermocline and subthermocline eastward currents in the Equatorial Atlantic. *Geophys. Res. Lett.*, **29**(16), <https://doi.org/10.1029/2002GL015098>.
- Bouvet, M., N. Hoepffner, and M. D. Dowell, 2002: Parameterization of a spectral solar irradiance model for the global ocean using multiple satellite sensors, *J. Geophys. Res.*, **107**, 3215, <https://doi.org/10.1029/2001JC001126>.
- Ebuchi N., H.C. Graber, M.J. Caruso, 2002: Evaluation of wind vectors observed by QuikSCAT / SeaWinds using ocean buoy data. *J. Atmos. Ocean. Technol.*, **19**, 2049–2062, [https://doi.org/10.1175/1520-0426\(2002\)019%3C2049:EOWVOB%3E2.0.CO;2](https://doi.org/10.1175/1520-0426(2002)019%3C2049:EOWVOB%3E2.0.CO;2).
- Troccoli, A., and Coauthors, 2002: Salinity Adjustments in the Presence of Temperature Data Assimilation. *Mon. Wea. Rev.*, **130**(1), 89–102.

## 2001– 4 publications

- Belyaev, K. P., C. A. S. Tanajura, and J. J. O'Brien, 2001: A data assimilation method used with an ocean circulation model and its application to the tropical Atlantic, *Applied Mathematical Modeling*, **25**(8), 655-670.

- Bentamy, A., K.B. Katsaros, W. Drennan, and E.B. Forde, 2001: Daily surface wind fields produced by merged satellite data. In Gas Transfer at Water Surfaces, E.S. Saltzman, M. Donelan, W. Drennan, and R. Wanninkhof (eds.). *AGU Geophysical Monograph Series*, Volume **127** (ISBN 0875909868), 343-349.
- Serra, Y.L., P. A'Hearn, H.P. Freitag, and M.J. McPhaden, 2001: ATLAS Self-Siphoning Rain Gauge Error Estimates. *J. Atmosph. Ocean. Technol.*: **18**(12), 1989–2002, [https://doi.org/10.1175/1520-0426\(2001\)018%3C1989:ASSRGE%3E2.0.CO;2](https://doi.org/10.1175/1520-0426(2001)018%3C1989:ASSRGE%3E2.0.CO;2).
- Vauclair F., Y. du Penhoat, 2001: Interannual variability of the upper layer of the tropical Atlantic ocean from in-situ data between 1979 and 1999, *Climate. Dyn.*, **17**, 527-546, <https://doi.org/10.1007/s003820000125>.

### **2000– 3 publications**

- Segschneider, J., M. Balmaseda, and D.L.T Anderson, 2000: Anomalous temperature and salinity variations in the tropical Atlantic: possible causes and implications for the use of altimeter data. *Geophys. Res. Lett.*, **27**(15) , 2281, <https://doi.org/10.1029/1999GL011310>.
- Servain J., I. Wainer, H.L. Ayina, and H. Roquet, 2000: The relationship between the simulated climatic variability modes of the tropical Atlantic. *Int. J. Climatol.*, **20**, 939-953.
- Wentz, F.J., C. Gentemann, D. Smith, and D. Chelton, 2000: Satellite Measurements of Sea Surface Temperature Through Clouds. *Science*, **288**: 847-850, 5 May, <https://doi.org/10.1126/science.288.5467.847>.

### **1999– 2 publications**

- Pailler, K., B. Bourlès, and Y. Gouriou, 1999: The barrier layer in the western tropical Atlantic Ocean. *Geophys. Res. Lett.*, **26**(14), 2069-2072, <https://doi.org/10.1029/1999GL900492>.
- Servain, J., I. Wainer, J. P. McCreary, and A. Dessier, 1999: Relationship between the equatorial and meridional modes of climatic variability in the tropical Atlantic, *Geophys. Res. Lett.*, **26**(4), 485-488, <https://doi.org/10.1029/1999GL900014>.

### **1998 – 2 publications**

- Hackert, E. C., R. N. Miller, and A. T. Busalacchi, 1998: An optimized design for a moored instrument array in the tropical Atlantic Ocean. *J. Geophys. Res.*, **103**(C4), 7491-7509, <https://doi.org/10.1029/97JC03206>.
- Servain J., A. Busalacchi, M.J. McPhaden, A.D. Moura, G. Reverdin, M. Vianna and S. Zebiak, 1998: A Pilot Research Moored Array in the Tropical Atlantic (PIRATA). *Bull. Amer. Meteorol. Soc.*, **79**, 2019-2031, [https://doi.org/10.1175/1520-0477\(1998\)079%3C2019:APRMAI%3E2.0.CO;2](https://doi.org/10.1175/1520-0477(1998)079%3C2019:APRMAI%3E2.0.CO;2).

***Non-peer reviewed (Reports, dissertations, proceedings, newsletters, etc.)***

**2018**

- Araujo, M., B. Bourlès, R. Perez, Requirements for the Tropical Atlantic Observing System: Societal impact and importance of observing the Tropical Atlantic, Report for the 1st TAOS Review Workshop, Portland-US, Feb. 8th-9 th 2018, CLIVAR Report No. 03/2018, September 2018.
- Araujo, M., B. Bourlès, R. Perez, Tropical Atlantic Observing System Networks: Current Status and plans to 2030 Mooring Networks, Report for the 1st TAOS Review Workshop, Portland-US, Feb. 8th-9th 2018, CLIVAR Report No. 03/2018, September 2018.
- Araujo, A., P. Chang, B. Bourlès, P. Brandt, J. Servain, M. Rouault, J. Lübbecke, R. Perez, R. Rodrigues, M. Jochum, B. Rodríguez-Fonseca, and N. Keenlyside, Dynamics of Tropical Atlantic Variability, Report for the 1st TAOS Review Workshop, Portland-US, Feb. 8th-9 th 2018, CLIVAR Report No. 03/2018, September 2018.
- Bourlès, B., P. Brandt, N. Lefèvre and J. Hahn, 2018: AtlantOS EU H2020 633211 Deliverable 3.9 "PIRATA data system upgrade report : Technical report mostly related to biogeochemical sensors (O2 and CO2 sensors) data, their real-time transmission and O2 and CO2 data control quality and their integration to existing systems, in relation with the WP7", [https://doi.org/10.3289/AtlantOS\\_D3.9](https://doi.org/10.3289/AtlantOS_D3.9).
- Bourlès, B., P. Brandt and M. Dengler, 2018: *PREFACE EU FP7 603521 Deliverable 4.4* "Suggestion for a sustainable long term monitoring system".
- Bourlès, B., "An example of vessel time optimization and collaborations during the PIRATA cruises", AtlantOS Newsletter 2018, Vol. 1, Issue 3, 11-12, May 2018.
- Bourlès, B., and M. Dengler, "Heat and freshwater budgets, air-sea interactions", Periodic Report n°3 for the EU PREFACE program (FP7, Grant Agreement N°: 603521), 9pp., June 2018.
- Bourlès, B., M. Araujo, P. Brandt, M. McPhaden, N. Lefevre, G. Foltz, and L. Cotrim da Cunha , "Organization & sustainability of PIRATA network Report", Deliverable D.3.19 for the EU AtlantOS program (H2020, Grant Agreement N°: 633211), 7pp., [https://doi.org/10.3289/atlantos\\_d3.19](https://doi.org/10.3289/atlantos_d3.19), December 2018.
- Perez, R., B. Bourlès, M. Araujo, Tropical Atlantic Observing System Networks: Current Status and plans to 2030 Vessel-based Observations; Report for the 1st TAOS Review Workshop, Portland-US, Feb. 8th-9th 2018, CLIVAR Report No. 03/2018, September 2018.
- Poli, P., 2018: Note on the impact of meteorological data from PIRATA moorings on global weather forecasts, <https://doi.org/10.5281/zenodo.1164620>.
- Poli, P., B. Bourlès, S. Bond, S. Hafner, S. Klink, and E. Petermann, "Drifter network improvement report", Deliverable D.3.20 for the EU AtlantOS program (H2020, Grant Agreement N°: 633211), 7pp, [https://doi.org/10.3289/atlantos\\_d3.20](https://doi.org/10.3289/atlantos_d3.20), December 2018.
- Reilly K., C. Cusack, V. Fernandez, E. Buch, M. Ott, M. Araujo, B. Bourlès et al., "Atlantic Ocean Observing Networks: Cost and feasibility study". Deliverable D.1.4 for the EU AtlantOS program (H2020, Grant Agreement N°: 633211), [https://doi.org/10.3289/AtlantOS\\_D1.4](https://doi.org/10.3289/AtlantOS_D1.4), 84pp, May 2018.

## 2017

- Bourlès, B., P. Brandt, & N. Lefèvre, 2017: *AtlantOS EU H2020 633211 Deliverable 3.3* "Enhancement of autonomous observing networks: PIRATA network improvement report".
- Jochum, M., 2017: *PREFACE EU FP7 603521 Deliverable 3.3* "Enhancing prediction of tropical Atlantic climate and its impacts: Report on Near Inertial Waves".
- Papapostolou, T., 2017: Seasonal mass and momentum balance of the Atlantic Equatorial Undercurrent. Ph.D. dissertation, University of Miami.
- Rousselot, P., G. Reverdin, P. Blouch, and P. Poli, 2017: *AtlantOS EU H2020 633211 Deliverable 3.5* "Enhancement of autonomous observing networks: Study of the potential for existing bathythermic string drifters".

## 2016

- Bourlès, B., 2016: *PREFACE EU FP7 603521 Deliverable 3.2* "Enhancing prediction of tropical Atlantic climate and its impacts: Report air-sea interactions".
- Rouault, M., P. Brandt, M. Ostrowski, V. Mohrholz, and A. Plas, 2016: *PREFACE EU FP7 603521 Deliverable 4.2*, "Eastern Atlantic interannual to decadal variability: Analysis of historical in-situ and remote sensing data with regard to the Eastern Atlantic interannual to decadal variability and Benguela Nino".

## 2012

- Caniaux, G., H. Giordani, J.L. Redelsperger, M. Wade, B. Bourlès, D. Bourras, G. de Coëtlogon, Y. du Penhoat, S. Janicot, E. Key, N. Kolodziejczyk, L. Eymard, J. Jouanno, A. Lazar, M. Leduc-Leballeur, N. Lefèvre, F. Marin, H. Nguyen, and G. Parard, 2012: Les avancées d'AMMA sur les interactions océan-atmosphère. *La Météorologie*, in press.
- Drévillon, M., E. Greiner, D. Paradis, C. Payan, J-M. Lellouche, G. Reffray, E. Durand, S. Law-Chune, S. Cailleau, 2012: Meteo-France and Mercator Ocean contribution to the search of the AF447 wreckage. *Mercator Quarterly Newsletter* **44**, January 2012, 3-10.
- Ferry, N., L. Parent, G. Garric, C. Bricaud, C-E. Testut, O. Le Galloudec, J-M. Lellouche, M. Drévillon, E. Greiner, B. Barnier, J-M. Molines, N. Jourdain, S. Guinehut, C. Cabanes, and L. Zawadzki, 2012: GLORYS2V1 global ocean reanalysis of the altimetric era (1993-2009) at mesoscale. *Mercator Quarterly Newsletter* **44**, January 2012, 28-39.
- Law Chune, S., Y. Drillet, P. De Mey and P. Daniel, 2012: Drift forecast with Mercator Ocean velocity fields and addition of external wind/wave contribution. *Mercator Quarterly Newsletter* **44**, January 2012, 22-27.

## 2011

- Dombrowsky, E., 2011: Overview global operational oceanography systems. Chapter 16 of "Operational Oceanography in the 21st Century", International GODAE Summer School, 11-22 January 2010, University of Western Australia, Perth.
- Hernandez, F., 2011: Performance of Ocean forecasting systems - intercomparison project. Chapter 23 of "Operational Oceanography in the 21st Century", International GODAE Summer School, 11-22 January 2010, University of Western Australia, Perth.

Drévuillon, M., C. Régnier, C. Desportes, E. Greiner, S. Guinehut, 2011: QuO Va Dis? The Mercator Ocean quarterly validation bulletin: recent developments and prospect. *Mercator Ocean Quarterly Newsletter*, **41** – April 2011 – 49-52.

## 2010

Ali, K.E., K.Y. Kouadio, G.P. Zahiri, A. Aman, A.P. Assamoi, and B. Bourlès, 2010: Influence of the Gulf of Guinea coastal and equatorial upwellings on the precipitations along its northern coasts during the boreal summer period. *Asian Journal of Applied Sciences*, 21836-AJAPS-KR.

Cabanes, C., C. de Boyer Montégut, C. Coatanoan, N. Ferry, C. Pertuisot, K. Von Schuckmann, L. Petit de la Villeon, T. Carval, S. Pouliquen and P.-Y. Le Traon, 2010: CORA (CORIOLIS Ocean Database for re-Analyses), a new comprehensive and qualified ocean in-situ dataset from 1900 to 2008 and its use in GLORYS, *Mercator Ocean - CORIOLIS Quarterly Newsletter - Special Issue#37* – April 2010, 15-19.

Remy, E., 2010: Large scale ocean variability estimated from a 3D-Var Reanalysis: sensitivity experiments, *Mercator Ocean Quarterly Newsletter#36* – January 2010, 8-14.

## 2009

McPhaden, M.J., K. Ando, B. Bourlès, H. P. Freitag, R. Lumpkin, Y. Masumoto, V.S.N. Murty, P. Nobre, M. Ravichandran, J. Vialard, D. Vousden, and W. Yu., 2009: The Global Tropical Moored Buoy Array. White Paper for OceanObs'2009 Conference, Venice (Italy), 21-25 September 2009.

## 2008

Bourlès, B., P.Freitag, and M.McPhaden, 2008: Moored buoy networks: The key to understanding the tropical Oceans, *Argos Forum #67*, November 2008.

Hernandez, F., and L. Crosnier, 2008: List of internal metrics for the MERSEA-GODAE Global Ocean: Specification for implementation. MERSEA WP5. Project deliverables D5.4.5, ed. By *Mercator Océan*, Toulouse, MERSEA-WP05-MERCA-STR0015.02A, pp. 75.

Lebel, T. & B. Bourlès, 2008: Le climat tropical de l'Atlantique à l'Afrique sous l'oeil d'AMMA-Catch et PIRATA, *Revue Sciences au Sud de l'IRD*, n°45, juillet-août 2008.

## 2007

Bourlès, B., P. Brandt, G. Caniaux, M. Dengler, Y. Gouriou, E. Key, R. Lumpkin, F. Marin, R.L. Molinari, and C. Schmid, 2007: African Monsoon Multidisciplinary Analysis (AMMA): Special measurements in the tropical Atlantic. *CLIVAR Exchanges*, **41**(12), 2, 7-9.

Lau, K. M., and J. M. Kim, 2007: How nature foiled the 2006 hurricane forecasts. *EOS Trans. AGU*, **88**, 105-107.

Lebel, T., D. J. Parker, B. Bourlès, A. Diedhiou, A. Gaye, J. Polcher, J.-L. Redelsperger, and C. D. Thorncroft, 2007: AMMA field campaigns in 2005 and 2006. *GEWEX News*, **17**(1).

## 2006

Bunge, L., C. Provost, A. Kartavtseff and B. Bourlès, 2006: Horizontal velocity variability at 10°W and 23°W on the equator, *AGU General Assembly*, Honolulu, HI.

- Lumpkin, R., R.L. Molinari, and M. JMcPhaden, 2006: A Northeast Extension of the PIRATA Array. *White Document*, AOML/NOAA, Miami, FL, USA.
- Morris, V., P. Clemente-Colón, N.R. Nalli, E. Joseph, R.A. Armstrong, Y. Detrés, M.D. Goldberg, P.J. Minnett and R. Lumpkin, 2006: Measuring Trans-Atlantic Aerosol Transport from Africa. *EOS Trans. AGU*, **87**(50).
- Nobre, P., 2006: The PIRATA South Western Extension. *8th International Conference on Southern Hemisphere Meteorology and Oceanography. Session: Addressing gaps in SH observing systems*. Foz do Iguacu, Brazil.
- Sato, O. T.; Polito, P. S., 2006: Long-term trend in the oceanic heat storage of the South Atlantic estimated from altimeter and PIRATA data. *8th International Conference on Southern Hemisphere Meteorology and Oceanography. Session: Role of the SH on oceans and climate*. Foz do Iguacu, Brazil.
- Urbano, D. F. and P. Nobre, 2006: Velocity field at the PIRATA sites: Model output vs. observations. *8th International Conference on Southern Hemisphere Meteorology and Oceanography. Session: Role of the SH on oceans and climate*. Foz do Iguacu, Brazil.

## 2005

- Arhan, M., A. M. Treguier, B. Boulrès, S. Michel, 2005: Diagnosing the annual cycle of the Equatorial Undercurrent in the Atlantic Ocean from a General Circulation model (EGU05-A-03458), *EGU General Assembly*, Vienna.
- Balmaseda, M.A., D.P. Dee, A.P. Vidard, and D.L.T. Anderson, 2005: A Multivariate Treatment of Bias for Sequential Data Assimilation: Application to the Tropical Oceans. *ECMWF Tech Memorandum No 480*.
- Bidlot, J.R., 2005: Impact of using the actual anemometer height when assimilating DRIBU surface wind data. *ECMWF Memorandum Research Department*, 14pp.
- Boulrès, B., 2005: Environmental Research observatory: PIRATA, summary document, Report done for the French Commission Scientifique Océan Atmosphère (CSOA): 44pp.
- Caniaux, G., H. Giordani, B. Boulrès and Y. DuPenhoat, 2005: Air-sea interactions during the EGEE/AMMA experiment: necessary requirements, *Extended abstract for OSI SAF (Ocean and Sea Ice Satellite Application Facility) Workshop*, Perros-Guirec, France.
- Le Borgne, P., Gérard Legendre, Anne Marsouin, 2005: OSI SAF radiative fluxes, *Extended abstract for OSI SAF (Ocean and Sea Ice Satellite Application Facility) Workshop*, Perros-Guirec, France.
- Provost, C., N. Chouaib, A. Spadone, L. Bunge, S. Arnault, and E. Sultan, 2005: Interannual variability of the zonal sea surface slope in the equatorial Atlantic during the 1990s. *Advances in Space Res. (COSPAR publication)*, **37**, 823-831.
- Vidard, A., D.L.T. Anderson, and M. Balmaseda, 2005: Impact of ocean observation systems on ocean analysis and seasonal forecasts. *ECMWF Tech Memorandum No 460*.

## 2004

- Busalacchi, A.J., R. Boscolo, B. Dickson, A. Piola, J. Servain, and N. Zeng, 2004: Climate observing system for the Atlantic sector. *CLIVAR Exchanges*, **9** (3), 8-11+16.
- Gentemann, C. L., F. J. Wentz, C. A. Mears, and D. K. Smith, 2004: In situ validation of Tropical Rainfall Measuring Mission microwave sea surface temperatures. *J. Geophys. Res.*, **109**, C04021, doi:10.1029/2003JC002092.
- Kartavtseff, Annie, 2004: Mouillage courantométrique PIRATA 10°W ; Mai 2003- Février 2004 ; Internal Report LODYC, n°2004-01, May.



- Nobre, P., E. Campos, P.S. Polito, O.T Sato, and J. Lorenzzetti (with contribution by A.Robertson, M.Vianna, J.Servain, and I.Wainer), 2004: PIRATA Western Extension Scientific Rational Report. *INPE/CPTEC Special Report, Cachoiera Paulista, SP, Brazil*.
- Rouault, M., and Coll., 2004: PIRATA South-Eastern Extension White Paper. *UFCT Special Report, Cape Town, South Africa*.
- Servain, J., 2004: PIRATA, Pirata et Mercator : Des bouées ancrées observent l'Atlantique tropical. Fiche Actualité MERCATOR (« Chroniques mercatoriennes »), 23 March.
- Servain J., 2004: Introduction of the Session "Scientific results from the PIRATA Program (1997-2004)". *Joint American and Canadian Geophysical Unions meeting, Montreal, Canada, May*.
- Servain J., Hervé M., and B. Durand, 2004: A real-time diagnostic analysis of the PIRATA observations. *Joint American and Canadian Geophysical Unions meeting, Montreal, Canada, May*.
- Servain J., 2004: O Programa PIRATA: CAMISA-PIRATA, O programa PIRATA : Objetivos, Realisações, Perspectivas. *Extended Proceeding XIII Congresso Brasileiro de Meteorologia. Fortaleza, Brazil, Sept*.
- Servain J., B. Boulès, et S. Planton, 2004: Le Programme PIRATA : Réalisations, Exploitation, Développement. *Recueil de Communications de l'Atelier Expérimentation et Instrumentation (AEI). Paris, France, 6pp, March*.
- Servain J., 2004: O Programa PIRATA: CAMISA-PIRATA, O programa PIRATA : Objetivos, Realizações, Perspectivas. *Extended Proceeding XIII Congresso Brasileiro de Meteorologia. Fortaleza, Brazil, Sept*.
- Servain J., Durand B., Ayina L.-H. and Bentamy A., 2004: High resolution satellite and PIRATA derived surface turbulent fluxes over the Atlantic Ocean. *Extended Proceeding XIII Congresso Brasileiro de Meteorologia. Fortaleza, Brazil, Sept*.
- Siqueira, L.S.P, and P.Nobre, 2004: Contrasting the errors in sea surface temperature and surface heat flux by a coupled GCM and its oceanic component, *XII Congresso Brasileiro de Meteorologia, Fortaleza, Brazil, Sept*.

## 2003

- Balmaseda, M.A., 2003: Ocean data assimilation for seasonal forecasts. *ECMWF Seminar Proceedings. Seminar on Recent developments in data assimilation for atmosphere and ocean, 8-12 September 2003, 301-326*.
- Boulès, B., 2003: On the Gulf of Guinea and the West African Monsoon, *CLIVAR Exchanges Letters, n°27, Vol. 8, n°2/3, CLIVAR-Africa, 15-16, Sept*.
- Grelet J., Servain J., Lorenzzetti J. et Vianna M. (in collaboration with A. Kartavtseff, R. Chuchla et B. Boulès, 2003: Recueil de données Météo-Océaniques durant les campagnes PIRATA : Années 1997-2003. *Publication IRD-Brest*.
- Kartavtseff A., 2003: Mouillages courantométriques PIRATA 10W et 23W. Dec 2001-Dec 2002. Internal Report LODYC n°2003-01.
- Peter, A.C., et Y. du Penhoat, 2003: Etude de la couche de mélange océanique et bilan de chaleur dans le Golfe de Guinée, *journées prospectives du PATOM, CIC de Météo France, Toulouse. Dec*.
- Provost C. et J. Servain, 2003: -ACI CLIMAT PIRATA- BILAN scientifique, technique et financier de la partie mouillages équatoriaux, Report done for the French ACI-Climat.

Vera C. S., Hazeleger, W., Wainer, I., and Servain, J., 2003: Climate Variability in the South Atlantic Ocean. « *White Document* » prepared for the « *Workshop SACOS : South Atlantic Climate Observing System* », Angra dos Reis, RJ, Brazil, Feb.

## 2002

- Balmaseda, M.A., 2002: Dealing with Systematic error in ocean data assimilation. ECMWF Workshop on the Role of the Upper Ocean in Medium and Extended Range Forecasting, 3-15 Nov 2002.
- Bourlès, B., 2002: Atlantique Equatoriale : des courants suivis à la trace..., *Fiches d'Actualités Scientifiques de l'IRD*, n°163, Oct. 2002.
- DuPenhoat, Y., N. Ferry, C. Maes, J. Merle, S. Arnault, collab.: L. Fleury, E. Greiner, M. Benkiran, A. Lazar, G. Eldin et B. Bourlès, 2002: Validation des systèmes MERCATOR en zone tropicale: océans Pacifique et Atlantique, *Journées Mercator-Coriolis*, LEGOS France, Sept 2002.
- Marchand, P., and J. Servain, 2002: NOR-50: Fast research vessel for operational oceanography - Implementing PIRATA & Argo programs in the Tropical & South Atlantic in a practical, economic way. *Sea Technology*, **43**(6), 49-54.
- Michel S., and A.-M. Treguier, 2002: Sensitivity of the Equatorial Undercurrent to mixing parameterisations in the CLIPPER model. *Report IFREMER/DRO/LPO n°02-16*, 35pp.
- Servain J., 2002: The status and perspective of the PIRATA Program. A CLIVAR Workshop on the Dynamics and Predictability of the Atlantic ITCZ and its Regional Climatic Influences. *A CLIVAR Workshop on the Dynamics and Predictability of the Atlantic ITCZ and its Regional Climatic Influences*. IRI, Palisades, NY, USA, Sept 2002.

## 2001

- Ayina H. L., and J. Servain, 2001: Climate modulation in a general circulation model of the tropical Atlantic. *CLIVAR Tropical Atlantic Workshop*, Paris, France, Sept, 2001.
- Cariou S., J. Servain, R. Person, et Y. Roubaud, 2001: Study of the tuna behaviour by acoustic simulation. *CLIVAR Tropical Atlantic Workshop*, Paris, France, Sept 2001.
- Clauzet G., I. Wainer, et J. Servain, 2001: Time-scales of variability from the high-frequency PIRATA data (1997-2000). *Joint IAPSO/IABO Assembly: 2001 An Ocean Odyssey*. Mar del Plata, Argentina, Oct 2001.
- Michel, S., A.-M. Treguier, R. Schopp, Y. Quilfen, A. Bentamy, 2001: Comparison of two Atlantic simulations forced by ECMWF and ERS wind climatologies, *CLIVAR workshop on Tropical Atlantic Variability*, Paris, Sept 2001.
- Quilfen, Y., A. Bentamy, S. Michel, A.-M. Treguier, R. Schopp, 2001: Impact of the wind from ERS satellites and from ECMWF reanalysis in the CLIPPER Atlantic model: first results, *AGU meeting on scatterometry*, Los Angeles, Dec 2001.
- Servain, J. and J. Lorenzetti, 2001: PIRATA-8 Meeting Report. *CLIVAR-Exchanges No. 22, Newsletter of the CLIVAR Program, Vol. 6, No. 4*, Dec. 2001.

## 1999

- McPhaden M. J., P. Freitag, J. Servain and E. Josse, 1999: Effects of fishing activity on tropical moored buoy arrays. *Actes du colloque Caraïbe-Martinique "Pêche thonière et dispositifs de concentration de poissons"*, 15-19 octobre 1999. Edits. J.-Y. Le Gall, P. Cayré & M. Taquet. p. 154.

- Servain J., and the PIRATA SSC, 1999: The PIRATA program and a proposed expansion through the South East. *Proceedings of the 10th Southern African Marine Science Symposium (SAMSS 2000) Land, Sea and People in the New Millennium, 22 to 26 November, 1999*, Wilderness, South Africa, p 131.
- Segschneider, J., M. Balmaseda, D. Anderson and O. Alves, 1999: On the risks of assimilating real time oceanic observations, limitations of a univariate assimilation scheme, and how to benefit from vandalism, *CLIVAR Exchanges*, No. **13**, Sept. 1999.
- Vianna M.L., Servain J., and Busalacchi A.J., 1999: PIRATA: Recent results and future perspectives. *CLIVAR Exchanges*, Vol. 4, N° 3, 17- 24.
- Vianna M.L., Servain J., and Busalacchi A.J., 1999: The PIRATA Program: Monitoring Tropical Atlantic Waters. *Sea Technology*, Vol. 40, N° 10, 10-15.

## 1998

- Servain J., and M. Vianna, 1998: Pilot research moored array in the tropical Atlantic - PIRATA. Program Status Report in *TAO Implementation Panel Report of the Sixth Session, Reading, England, 4-6 November 1997*, GOOS Report No. 36, GCOS Report No. 43, ICPO Publication Series No. 13, p 10.
- Servain J., and Group PIRATA, 1998: The PIRATA program: An extension of the TAO array in the Atlantic. *Conférence Internationale Abidjan '98 "Variabilité des Ressources en Afrique au XXème Siècle"*, Recueil des Posters, 16-19 novembre 1998, Abidjan, Côte d'Ivoire, 157-161.
- Servain J., 1998: PIRATA Status Report. *TAO Implementation Panel Report of the Seventh Session, Abidjan, Côte d'Ivoire, 11-13 November 1998*, GOOS Report No. 68, GCOS Report No. 52, ICPO Publication Series No. 26, 10-11.

## 1997

- Reverdin, G, J. Servain and S.Planton, 1997 : Réseau de mouillages PIRATA dans l'Atlantique tropical. *Atelier "Expérimentation et Instrumentation"*, 29-30 octobre 1997, Auditorium du CNRS, Campus Michel Ange, Paris 16°, 7-12.
- Servain J., 1997: The PIRATA program: An extension of the TAO array in the Atlantic. Program Status Report in *TAO Implementation Panel Report of the Fifth Meeting, Goa, India, 18-21 November 1996*, GCOS Report No. 31, ICPO Publication Series No. 5, GOOS Report No. 97/1, 15-16.
- Servain J., 1997: Pilot Research Moored Array in the Tropical Atlantic. *Annales Geophysicae, Supplement II to Volume 15, PartII, Hydrology, Oceans, Atmosphere & Nonlinear Geophysics*, C 410.
- Servain J., H.L. Ayina, and H.Roquet, 1997: Et si PIRATA avait été mis en place dès 1979! *Recueil des Actes, Symposium International Surveillance des Océans à l'Horizon 2000 : Une Approche Intégrée, 15-17 octobre 1997*, Biarritz, France, 4 pp.

## 1996

- Servain J., 1996: Le Programme PIRATA (Pilot Research Moored Array in the Tropical Atlantic). *Colloques et Congrès de Météo-France, Atelier de Modélisation de l'Atmosphère, Toulouse, 3-4 décembre 1996, Centre National de Recherches Météorologiques*, 3-8