

A. In Journals

1. A. J. Luis and S. M. Pednekar (2012). Hydrodynamics between Africa and Antarctica during Austral summer of 2008 and 2009: Results of the IPY project, *International Journal of Geosciences*, doi:10.4236/ijg.2012.
2. Jawak, S. D., and A. J. Luis (2012). A spectral index ratio-based Antarctic land-cover mapping using hyperspatial 8-band WorldView-2 Imagery, *Polar Science*, manuscript No. 12-00009.
3. S. D. Jawak, P. G. Sambhus, R. A. Paranjape, and A. J. Luis (2012). Assessment of spatial interpolation techniques for generating an accurate digital elevation surface using combined Radar and Lidar elevation data, *Proceedings of 8th International Conference on Microwaves Antenna Propagation & Remote Sensing*, Jodhpur, India, December 10-15.
4. S. D. Jawak and A. J. Luis (2012). Synergistic use of multitemporal RAMP, ICESat and GPS to construct an accurate DEM of the Larsemann Hills, Antarctica, *Advances in Space Research*, 50, 457-470.
5. M. Nuncio, A. J. Luis, and X. Yuan (2011). Topographic Meandering of Antarctic Circumpolar Current and Antarctic Circumpolar Wave, *Geophysical Research Letters*, 38, L13708, doi:10.1029/2011GL046898.
6. M. Nuncio and A. J. Luis (2011). Role of Westerlies and Thermohaline structure on sea –Ice extent in the Indian Ocean sector of Antarctica. *Journal of Geological Society of India*, 78, 211-216
7. S. D. Jawak and A. J. Luis (2011). Applications of WorldView-2 satellite data for Extraction of Polar Spatial Information and DEM of Larsemann Hills, East Antarctica, 2011 International Conference on Fuzzy Systems and Neural Computing, *IEEE*, 2, 148-151.
8. A. J. Luis, and S. M. Pednekar (2010). Hydrodynamics between Africa and Antarctica during Austral summer 2008, *Journal of Marine Systems*, 83, 45-57.
9. A. J. Luis, and M. Sudhakar (2009). Hydrodynamic characteristics along near-meridional sections in the southwest Indian sector of the Southern Ocean during austral summer 2007, *Polar Science*, 3, 13-30.
10. A. J. Luis and R Ravindra (2008). Quikscat-based momentum flux analysis over the Southern Ocean, *Indian Journal of Marine Science*, 37(1),1-10.
11. A. J. Luis, S. M. Pednekar, and M. Sudhakar (2007). Post-Tsunami Impact study on thermohaline structure in the Bay of Bengal, *Current Science*, 93(5) 699-702.

12. N. Anilkumar, A. J. Luis, Y.K. Somayajulu, V. Ramesh Babu, M.K. Dash, S.M. Pednekar, K.N. Babu, M. Sudhakar and P.C. Pandey (2006). Fronts, water masses and heat content variability in the Western Indian sector of the Southern Ocean during austral summer 2004, *Journal of Marine Systems*, 63(1-2), 20-34.
13. A. J. Luis, O. Isoguchi and H. Kawamura (2005). Characteristic patterns of QSCAT-based wind stress and turbulent heat flux in the tropical Indian Ocean, *Remote Sensing of Environment*, 103, 398-407.
14. A. J. Luis and P. C. Pandey (2005). Characteristics of atmospheric divergence and convergence in the Indian Ocean inferred from Scatterometer winds, *Remote Sensing of Environment*, 97(2), 231-237.
15. N. Anilkumar, M. K. Dash, A. J. Luis, V. Ramesh Babu, Y. K. Somayajulu, M. Sudhakar and P.C. Pandey (2004). Oceanic fronts along 45°E across Antarctic Circumpolar Current during austral summer 2004, *Current Science*, 88(10), 1669-1673.
16. A. J. Luis and P. C. Pandey (2004). Seasonal variability of QSCAT-derived wind stress over the southern Ocean. *Geophysical Research Letters*, 31, L13304, doi:10.1029/2003GL019355.
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21. A. J. Luis and H. Kawamura (2002), Dynamics and mechanism for sea surface cooling near the Indian tip during 1997 winter monsoon, *Journal of Geophysical Research*, 107, 3187, DOI: 10.1029/2000JC000455.

22. A. J. Luis and H. Kawamura (2002). A case study of SST-cooling dynamics near the Indian Tip during May 1997, *Journal of Geophysical Research*, 107, 3171, DOI:10.1029/2000JC000778, 35-1 to 11.
23. Tang, D. L., H. Kawamura, and A. J. Luis (2001). Short-term variability of phytoplankton blooms associated with a cold eddy in the northwestern Arabian Sea. *Remote Sensing of Environment*, 81, 1-8.
24. A. J. Luis and H. Kawamura (2001). Characteristics of atmospheric forcing and SST cooling events in the Gulf of Mannar during winter monsoon, *Remote Sensing of Environment*, 77, 139-148.
25. A. J. Luis and H. Kawamura (2000). Wintertime Wind Forcing and sea surface cooling near the south Indian tip observed using NSCAT and AVHRR, *Remote Sensing of Environment*, 73, 55-64.
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28. A. J. Luis and S. Isijima (1996). An estimation of Infrared emissivities by emissivity box method, *Bulletin of College of Science*, University of the Ryukyus, Japan, September issue, 62, 11-20.
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B. Presentation/Poster at conferences

1. A. J. Luis (2012). Warming Mechanisms of South Indian Subtropical Gyre (2012). Oral presentation at Pan Ocean Remote Sensing Conference (*PORSEC2012*), November 5-9, 2012, Kochi, India.
2. S. D. Jawak, and A. J. Luis (2012). Hyperspatial WorldView-2 Satellite Remote Sensing Data for Polar Geospatial Information Mining of Larsemann

Hills, East Antarctica, Poster presentation at Pan Ocean Remote Sensing Conference (*PORSEC2012*), November 5-9, 2012, Kochi, India

3. A. J. Luis (2011). Workshop: Impact of Climate Change on Biogeochemical Cycles and Ecosystems in Arctic-Antarctic Polar Seas at Trondheim, *Norway*: 1st-2nd October 2011.
4. A. J. Luis, S. M. Pednekar, and R. Ravindra (2010). Comparison of Hydrodynamics between Africa and Antarctica during the Austral Summer of 2008 and 2009: Results of the IPY Project #70, abstract No. 2192, IPY OSLO Science Conf, 8-12 June, 2010, Norway.
5. A. J. Luis, S. M. Pednekar, and R. Ravindra (2010). Role of atmospheric and oceanic processes in modulating the sea-ice extent in the Antarctic Indian Ocean sector, abstract No. 2222, IPY OSLO Science Conf, 8-12 June, 2010, Norway
6. A. J. Luis, and R. Ravindra, Upper-Ocean Hydrodynamics along Meridional sections in the Southwest Indian Sector of the Southern Ocean during Austral Summer 2007, Abstract No.IWG09-A006, presented orally at AOGS, 11-15 August, 2009, Singapore.
7. A. J. Luis, N. Murukesh, and R. Ravindra, Factors affecting sea-ice distribution in the Indian Ocean sector of Southern Ocean, Abstract No. IWG09-A004, presented orally at AOGS, 11-15 August, 2009, Singapore.
8. A. J. Luis, M. Sudhakar, and R. Ravindra, Validation of atmospheric heat budget parameters in the western Indian sector of the Southern Ocean, paper in Proceedings of XXI Congress of the International Society for Photogrammetry and Remote Sensing, Beijing, 3-8 July 2008.
9. A. J. Luis, M. Nuncio, M. Sudhakar, Upper-ocean hydrodynamics along two near-meridional ship tracks in the southwest Indian sector of the Southern Ocean, Poster for SCAR Open Science Conference, Russia, 5-7 July 2008.
10. A. J. Luis, QuikSCAT-based momentum flux analysis over the southern ocean, International Scientific Conference on the Asia-Pacific Remote Sensing Symposium in Goa, India, (Abstract No. 6406-50), 13-17 Nov. 2006 .
11. S. M. Pednekar, N. Anilkumar, A. J. Luis, M. Sudhakar and Y. Sugimori, Mesoscale eddy trajectories in the Indian Ocean circulation using satellite altimetry International Scientific Conference on the Asia-Pacific Remote Sensing Symposium in Goa, India, 13-17 November 2006 (Abstract No. 6406-49).
12. A. J. Luis, Seasonal variability of air-sea heat fluxes derived from satellite and numerical weather forecast in the Indian sector of the Southern Ocean, Abstract accepted in the *SCAR Open Science Conference*, 12-14 July, 2006, Hobart, Australia.
13. A. J. Luis, M. Sudhakar, and Y. Somayajulu. Seasonal and Interannual Variability of turbulent heat flux over the Lakshadweep Sea, *National*

workshop on ARMEX- data analysis & Modelling: 19-21 April, 2006 at NIO, Goa

14. A. J. Luis, K. N. Babu, M. K. Dash and P. C. Pandey. *Teleconnections between Antarctica and tropical Systems: a need for observational network*, Presentation at **TCUP** (Tropical Cyclone - Observations, Understanding and Prediction), Berhampur University, Orissa-India. 5-6 January, 2005
15. A. J. Luis and P. C. Pandey. Seasonal Variability of QSCAT-derived turbulent heat and momentum fluxes in the Tropical Indian Ocean, *INDOCLIM* (International workshop on Role of **INDian Ocean in CLIMate** Variability over India), Indian Institute of Tropical Meteorological, Pashan-Pune. 23-27 February, 2003