

**NCAOR PUBLICATIONS PERTAINING TO ANTARCTICA IN PEER-
REVIEWED JOURNALS / BOOKS (2011-2015)**

1. **Patil, S. M., Mohan, R., Shetye, S., Gazi, S.** and Jafar, S. A. (2015). *Prymnesium neolepis* (Prymnesiaceae), a siliceous Haptophyte from the Southern Indian Ocean. **Micropaleontology**, 60(5), 475-481. **(IF.1)**
2. **Patil, S. M., Mohan, R., Shetye, S., Gazi, S.** and Jafar, S. (2015). *Petasaria heterolepis* (Prymnesiaceae) from the Southern Indian Ocean. **Micropaleontology**, 61(3), 171-176. **(IF.1)**
3. **Jawak, S. D., Devliyal, P. and Luis, A. J.** (2015). A comprehensive review on pixel oriented and object oriented methods for information extraction from remotely sensed satellite images with a special emphasis on cryospheric applications. **Advances in Remote Sensing**, 4, 177-195.
4. **Jawak, S. D., Kulkarni, K. and Luis, A. J.** (2015). A review on extraction of lakes from remotely sensed optical satellite data with a special focus on cryospheric lakes. **Advances in Remote Sensing**, 4, 196-213.
5. **Jawak, S. D., Vadlamani, S. and Luis, A. J.** (2015). A synoptic review on deriving bathymetry information using remote sensing technologies: models, methods and comparisons. **Advances in Remote Sensing**, 4, 147-162.
6. **Jawak, S. D., Bidawe, T. and Luis, A. J.** (2015). A review on applications of imaging synthetic aperture radar with a special focus on cryospheric studies. **Advances in Remote Sensing**, 4(2), 163-175.
7. **Singh, S. M., Olech, M., Cannone, N. and Convey, P.** (2015). Contrasting patterns in lichen diversity in the continental and maritime Antarctic. **Polar Science**, 9(3), 311-318.
8. **Rahaman, W., Thamban, M. and Laluraj, C. M.** (2015). Twentieth-century sea ice variability in the Weddell Sea and its effect on moisture transport: Evidence from a coastal East Antarctic ice core record. **The Holocene**. **(Accepted)**. **(IF. 3.794)**.
9. **Mahesh, B. S., Anish, K. W., Rahul, M., Tiwari, M., Babu, A., Chandran, A., Rajesh, A. and Rasik, R.** (2015). Response of long lake sediment to Antarctic Climate: A perspective gained from sedimentary organic geochemistry and practical size analysis. **Polar Science**. doi:10.1016/j.polar.2015.09.004
10. **Bhatia, A., Khandelwal, S. and Mishra, A.** (2015). Psychological health in the summer team of an Indian expedition to Antarctica. **Journal of mental health and human behaviour**. **(Accepted)**.
11. **Laluraj, C. M., Thamban, M., and Satheesan, K.** (2014). Dust and associated geochemical fluxes in a firn core from coastal East Antarctica and its linkages with Southern Hemisphere climate variability over the last 50 years. **Atmospheric Environment**, 90, 23-32. **[IF 3.062]**.
12. **Patil, S. M., Mohan, R., Shetye, S., Gazi, S.** and Jafar, S. (2014). Morphological variability of *Emiliana huxleyi* in the Indian sector of the Southern Ocean during the austral summer of 2010. **Marine Micropaleontology**, 107, 44-58. **[IF 2.582]**.
13. **Mukhopadhyay, S. K., Chatterjee, S., Gauri, S. S., Das, S. S., Mishra, A., Patra, M., Ghosh, A. K., Das, A. K., Singh, S. M., Dey, S.** (2014). Isolation and characterization of extracellular polysaccharide Thelebolan produced by a newly isolated

psychrophilic Antarctic fungus *Thelebolus*. **Carbohydrate Polymers**, 104, 201-212. [IF 3.916].

14. **Antony, R.**, Grannas, A. M., Willoughby, A. S., Sleighter, R. L., **Thamban, M.** and Hatcher, P. G. (2014). Origin and sources of dissolved organic matter in snow on the East Antarctic ice sheet. **Environmental Science & Technology**, 48 (11), 6151–6159. [IF 5.481].
15. **Jawak, S. D.** and **Luis, A. J.** (2014). A semiautomatic extraction of Antarctic lake features using World View-2 imagery. **Photogrammetric Engineering and Remote Sensing**, 80(10), 939–952. [IF 2.071].
16. **Shetye, S.**, **Mohan, R.**, Jafar, S. A., **Nair, A.**, **Patil, S.**, **Jawak, S.**, Asthana, R. and **Gazi, S.** (2014). Diatom burst driven silica depletion under Antarctic sea ice: evidence from Sponge spicules. **Current Science**, 107 (2), 273-277. [IF 0.833].
17. **Warrier, A. K.** , **Mahesh, B. S.**, **Mohan, R.**, Shankar, R., Asthana, R. and Ravindra, R. (2014). Glacial-interglacial climatic variations at the Schirmacher Oasis, East Antarctica: the first report from environmental magnetism. **Palaeogeography, Palaeoclimatology, Palaeoecology**, 412, 249-260. [IF 2.752].
18. **Nair, A.**, **Mohan, R.**, **Shetye, S.**, **Gazi, S.** and Jafar, S. A. (2015). *Trigonium curvatus* sp. nov. and *Trigonium arcticum* (Bacillariophyceae) from the surface sediments of Prydz Bay, East Antarctica. **Micropaleontology**, 61 (3), 185-192). [IF 1].
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22. **Jawak, S. D.** and **Luis, A. J.** (2014). Spectral information analysis for the semiautomatic derivation of shallow lake bathymetry using high-resolution multispectral imagery: a case study of Antarctic coastal oasis. **Aquatic Procedia**, 4, 1331–1338.
23. **Jawak, S. D.**, Raut, A. D. and **Luis, A. J.** (2014). Iterative spectral index ratio exploration for object-based image analysis of Antarctic coastal oasis using high resolution WorldView-2 satellite image. **Aquatic Procedia**, 4, 157-164.
24. **Jawak, S. D.**, S. N. Panditrao and **Luis, A. J.** (2014). Enhanced Urban Landcover Classification for Operational Change Detection Study Using Very High Resolution Remote Sensing Data . **The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, ISPRS Technical Commission VIII Symposium, 09-12 December 2014, Hyderabad, India**, XL(8), 773-779.
25. **Jawak, S. D.** and **Luis, A. J.** (2014). Synergetic merging of cartosat-1 and ramp to generate improved digital elevation model of Schirmacher Oasis, East Antarctica. **The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, ISPRS Technical Commission VIII Symposium, 09-12 December 2014, Hyderabad, India**, XL(8), 517-524.
26. **Jawak, S. D.**, S. N. Panditrao and **Luis, A. J.** (2014). Airborne lidar and high resolution satellite data for rapid 3d feature extraction. **The International Archives of the**

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27. **Premkumar, M.,** Sable, T., Dhanwal, D. and Dewan, R. (2013). Vitamin D homeostasis, bone mineral metabolism and seasonal affective disorder during one year of Antarctic residence. **Archives of Osteoporosis**, (8) 129. DOI 10.1007/s11657-013-0129-0
28. **Bhatia, A.** and Pal, R. (2013). Impact of Antarctica winters on vital parameters and anthropometric variables. **Travel Medicine and Infectious Diseases journal**, 11 (3), 170–177.
29. **Jawak, S. D.** and **Luis, A. J.** (2013). Improved land cover mapping using high resolution multiangle 8-band WorldView-2 satellite remote sensing data. **Journal of Applied Remote Sensing**, 7(1), DOI: 10.1117/1.JRS.7.073573 [**IF 0.818**].
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33. **Luis, A. J.** (2013). Sea Ice Observations in Polar regions: Evolution of Technologies in Remote Sensing. **International Journal of Geosciences**, 4, 1031-1050.
34. **Jawak, S. D.** and **Luis, A. J.** (2013). A comprehensive Evaluation of PAN- Sharpening algorithms coupled with resampling methods for image synthesis of very high resolution remotely sensed satellite data. **Advances in Remote Sensing Journal**, 2, 332-344.
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