

Impact of COVID-19 Pandemic Lockdown on Fishery Potential of Uran Tehsil, M. S., India

Shital S. Taware¹, Vishwajeet M. Lagade², Mansi K. Gurav³, Ayush D. Koli⁴

Assistant Professor, Department of Zoology, Rajaram College, Kolhapur, Pin Code - 416004, M.S. India¹

Assistant Professor, Department of Zoology, Shri. Yashawantrao Patil Science College, Solankur, Dist - Kolhapur²

Student, Department of Zoology, The Institute of Science, Dr. Homi Bhabha State University, Mumbai^{3,4}

Abstract: This investigation was intended to find out the impact of covid-19 pandemic lockdown on fishery potential of Karanja and Mora village of Uran Tehsil from Maharashtra State. Data was collected by questionnaire and on field survey method. Data revealed the presence of 55 commercially important fishery species, including 44 fishes, 08 crustaceans and 03 molluscs. It was found that species diversity was positively correlated with substantial impact of Lockdown.

Keywords: Uran Landing Centers, Fishery Potential, Covid-19 Lockdown, etc.

REFERENCES

- [1] Purkait, S., Sutanu Karmakar, Supratim Chowdhury, Prasenjit Mali and Surya Kanta Sau, "Impacts of Novel Coronavirus (COVID-19) Pandemic on Fisheries Sector in India: A Minireview", Ind. J. Pure App. Biosci. (2020), 8(3): 487-492.
- [2] Bennett, N. J., Elena M. Finkbeiner, Natalie C. Ban, Dyhia Belhabib, Stacy D. Jupiter, John N. Kittinger, Sangeeta Mangubhai, Joeri Scholtens, David Gill & Patrick Christie, "The COVID-19 Pandemic, Small-Scale Fisheries and Coastal Fishing Communities", Coastal Management, (2020) 48:4, 336-347, DOI: 10.1080/08920753.2020.1766937
- [3] Avtar, R., Deepak Singh, Deha Agus Umarhadi, Ali P. Yunus, Prakhar Misra, Pranav N. Desai, Asma Kouser, Tonni Agustiono Kurniawan and KBVN Phanindra: Impact of COVID-19 Lockdown on the Fisheries Sector: A Case Study from Three Harbors in Western India. Remote Sens. 2021, 13, 183.
- [4] FAO, "The impact of COVID-19 on fisheries and aquaculture food systems, possible responses: Information paper", November 2020. Rome. <https://doi.org/10.4060/cb2537en>
- [5] M. S. Swaminathan Research Foundation 7 April 2020 [MSSRF]- COVID-19 impact on livelihoods of marine fishing community- <https://www.mssrf.org/content/covid19-impact-livelihoods-marine-fishing-communities-0>
- [6] Marine Fisheries Census 2016 Maharashtra: Department of Fisheries and Central Marine Fisheries Research Institute.
- [7] Franchis Day, "Fishes. Vol-1: The Fauna of British India, including Ceylon and Burma", Taylor and Francis, London, (1880).
- [8] Talwar, P.K. and R. K. Kacker, "Commercial Sea Fishes of India", Zoological Survey of India, Calcutta, 997 p (1884).
- [9] <https://www.fishbase.in/search.php>.
- [10] Amjath-Babu, T.S., T.J. Krupnik, S.H. Thilsted, and A.J. McDonald, "Key indicators for monitoring food system disruptions caused by the COVID-19 pandemic: insights from Bangladesh towards effective response", Food Security (2020): 1-8.
- [11] Sunny, A. R., Sazzad, S. A., Datta, G. C., Sarker, A. K., Ashrafuzzaman, M., & Prodhan, S. H., "Assessing impacts of Covid-19 on aquatic food system and small-scale fisheries in Bangladesh" (2020).
- [12] Korten, T., "With boats stuck in harbor because of COVID-19, Will fish bounce back?", Smithsonian Magazine, April 8, 2020. <https://www.smithsonianmag.com/science-nature/fishstop-covid-19-180974623/>.
- [13] Maheswarudu, G., "Diversity and exploitation status of Crustacean Fishery Resources in India", ICAR-CMFRI (2018). oai: eprints.cmfri.org.in:12717

- [14] Pawar, Prabhakar R., "Monitoring of fin-fish resources from Uran coast (Raigad), Navi Mumbai, Maharashtra, West coast of India", International Multidisciplinary Research Journal, (2011), 1(10):08-11.
- [15] Gopakumar G, Manmadhan Nair K R and Kripa V., "Mariculture research in India: Status, constraints and prospects - Status and Perspectives in Marine Fisheries Research in India", CMFRI Diamond Jubilee Publication (2007), pp. 316-361.
- [16] "Handbook on Fishery Statistics", Department of Fisheries Ministry of Fisheries, Animal Husbandry & Dairying Government of India, New Delhi (2020)
- [17] FSI, "Demersal fishery resources survey, assessment and monitoring of fish stocks along North Maharashtra and Gujarat coast between latitude 18° and 23° N", in Annual Report 2019-20. Pp. 5-6 (2020).
- [18] Orłowski, A., "Small-scale fishermen suffering significantly from COVID-19 pandemic. SeafoodSource", April 27, (2020). <https://www.seafoodsource.com/news/supply-trade/small-scalefishermen-suffering-significantly-from-covid-19-pandemic>.
- [19] Russo, E., Anelli Monti, M., Toninato, G., Silvestri, C., Raffaetà, A. and Pranovi, F., "Lockdown: How the COVID-19 Pandemic Affected the Fishing Activities in the Adriatic Sea (Central Mediterranean Sea)", Front. Mar. Sci. (2021), 8:685808. doi: 10.3389/fmars.2021.685808
- [20] Lakra, W. S., Ramkumar, S. and Gopalkrishnan, A., "Marine fisheries and biodiversity management in Maharashtra: Status, challenges and opportunities", Indian Journal of Animal Sciences, (2021), 91 (2): 91-95.
- [21] Coll, M., Ortega-Cerdà, M. and Mascarell-Rocher, Y., "Ecological and economic effects of COVID-19 in marine fisheries from the Northwestern Mediterranean Sea", Biological Conservation, (2021), 255: 1-11, (<https://doi.org/10.1016/j.biocon.2021.108997>)
- [22] Ibrahīm, S. Abuthagīr, Suraj Kumar Pradhan, Nirmal Tamilarasan, Ratheshkumar, R., Sathish Kamat and Latha Shenoy, "Catch Composition and Discard in Set Bagnets of Karanja estuary, Raigad, Maharashtra", Journal of Indian Fisheries Association, 44(1): 01-13, 2017.