JOINT MONITORING PROGRAMME FOR AMBIENT NOISE IN THE NORTH SEA

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Interreg

North Sea Region

European Regional Development Fund EUROPEAN UNION

Jomopans

In 2018, the three-year project "Joint Monitoring Programme for Ambient Noise in the North Sea" started. Jomopans will develop a framework for a fully operational joint monitoring programme for ambient noise for the North Sea region. The project will deliver the tools necessary for managers, planners and other stakeholders to incorporate the effects of ambient noise.

International concern increasingly focusses on the potential negative effects of anthropogenic underwater noise on sensitive marine fauna. Questions regarding sound sources, sound transmission, and the distributions of vulnerable species in the North Sea must all be tackled transnationally, as specifically required by the EU Marine Strategy Framework Directive and by the OSPAR Convention.



CONCLUSION

Following the work flow of Jomopans and with the GES Tool marine managers will be able to quantitatively and graphically assess the risk of impact on the indicator species.

REFERENCES

- Dekeling, R.P.A., Tasker, M.L., Van der Graaf, A.J., Ainslie, M.A. Andersson, M.H. Dekeling, K.P.A., Iasker, M.L., Van der Graat, A.J., Ainslie, M.A., Andersson, M.H., André, M., Borsani, J.F., Brensing, K., Castellote, M., Croini, D., Dalen, J., Folegot, T., Leaper, R., Pajala, J., Redman, P., Robinson, S.P., Sigray, P., Sutton, G., Thomsen, F., Werner, S., Wittekind, D., Young, J.V. (2013), "Monitoring Guidance for Underwater Noise in European Seas - Executive Summary". 2nd Report of the Technical Subgroup on Underwater Noise (TSG Noise). Fyhr F. and Nikolopoulos A (2016) "The BIAS soundscape planning tool for underwater continuous lew frequency exond. Licer Guide".
- underwater continuous low frequency sound User Guide
- De Jong, C., Binnerts, B., Östberg, M., Karasalo, I., Folegot, F., Clorennec, D., Ainslie, M., McGillivray, A., Warner, G., Wang, L., (2019), "Underwater sound mapping: Statistics and uncertainty". Presented at Aquatic Noise 2019. Merchant, N. D., Farcas, A., Powell, C. F. (2018) "Acoustic metric specification". Report of the EU INTERREG Joint Monitoring Programme for Ambient Noise
- Report of the EU INTERKEG Joint Monitoring Programme for Ambient Noise North Sea (Jompans).
 Gilles, A., S. Viquerat, E. A. Becker, K. A. Forney, S. C. V. Geelhoed, J. Haelters, J. Nabe-Nielsen, M. Scheidat, U. Siebert, S. Sveegaard, F. M. van Beest, R. van Bemmelen, and G. Aarts. 2016. Seasonal habitat-based density models for a marine top predator, the harbor porpoise, in a dynamic environment. Ecosphere 7(6):e01367. 10.1002/ecs2.1367









