

THE LIFEWATCH TAXONOMIC BACKBONE: HOW CAN IT HELP YOU WITH YOUR RESEARCH AND HOW CAN YOU HELP TO MAKE IT MORE COMPLETE?

Leen VANDEPITTE¹, Stefanie DEKEYZER¹, Bart VANHOORNE¹, Wim DECOCK¹, Sofie VRANKEN¹, Daphnis DE POOTER¹, Filip WAUMANS¹, Simon CLAUS¹, Kevin VERFAILLE¹ and Francisco HERNANDEZ¹

¹Flanders Marine Institute (VLIZ), Wandelaarkaai 7, 8400 Oostende, Belgium

e-mail: leen.vandepitte@vliz.be

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The LifeWatch Taxonomic Backbone facilitates the standardization of species data, and the integration of the many distributed databases and data systems. It – virtually - brings together different component databases and data systems, dealing with five major components: (1) taxonomy, through regional, national, European, global and thematic databases, (2) biogeography, based on databases dealing with species occurrences, (3) ecology, in the form of species-specific traits, (4) genetics and (5) literature, by linking all available information to the relevant sources and through tools that can intelligently search this literature. The development of the LifeWatch Taxonomic Backbone started in 2012 and almost completed its 5-year construction phase. During this phase, tremendous progress has been made on the taxonomic and biogeographic components, as well as on traits information and linking available information with literature. The LifeWatch Taxonomic Backbone offers a whole range of services to the scientific community which can support them in answering specific ecological questions which have so far not been dealt with due to the lack of accessibility, availability, standardization and linking of data. Both easy-to-use online tools and web services allow scientists to e.g. compare their own data with already collected data from the same or similar regions, to check whether any of the taxa in their database is still known under that name or to see whether any of their listed species is e.g. tagged as an endangered or alien species. The LifeWatch Taxonomic Backbone is a two-way street: besides using the tools and functionalities it is offering – which are often developed based on identified needs within the scientific community -, scientists can also contribute themselves to make it more complete. Feedback on e.g. taxonomy and traits is highly appreciated and communicated with the involved experts of the different component databases. And all distribution information collected by individual scientists can become part of the biogeographic component of this backbone, e.g. by contributing occurrence data with the biogeographic component of the system.

Link: http://www.lifewatch.be/en/taxonomic_backbone