

Posidonia regression along Apulian coast

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Abstract—Starting from the historical data on *Posidonia oceanica* distribution along the Apulian coast (from 1986 to 2006), the RO individuate regression hotspots using a model made in model builder (ArcGIS)

Index Terms— *apulia; Italy; posidonia oceanica; regression; meadow*

I. INTRODUCTION

This document provides a paper-style view of the Research Object (RO) “*Posidonia regression along Apulian coast*”¹ generated . The RO has been created, managed and preserved via ROHub platform [1]. Please refer to [2] for a general introduction to the RO concept, to [3] for a detailed description of the RO model, and to [4] for more information about ROHub platform.

The RO is of type “*Process-centric*”, which represents an aggregation of related resources where the scientific method/processes play the central role. ².

An overview of this RO is depicted in Figure 1. In summary, the hypothesis of this work is described in *Hypothesis.txt*³; the conclusions drawn are described in *Conclusion.txt*⁴. Additionally, this RO has been enriched automatically with the following annotations:

- concepts (most frequently mentioned in the RO): *coast, Apulian*
- domains (fields of knowledge in which the main concepts are commonly used): *geography*
- frequent expressions (most frequently mentioned noun phrases): *Apulian coast, oceanica meadow*
- named entities (most frequently mentioned):
 - Places: *Posidonia*

II. RESOURCES

The resources encapsulated by the RO are summarized in table I

ACKNOWLEDGMENT

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¹http://sandbox.rohub.org/rodl/ROs/posidonia_regression_along_apulian_coast/

²See RO types definitions at <http://w3id.org/ro/earth-science#>

³http://sandbox.rohub.org/rodl/ROs/posidonia_regression_along_apulian_coast/Hypothesis.txt

⁴http://sandbox.rohub.org/rodl/ROs/posidonia_regression_along_apulian_coast/Conclusion.txt

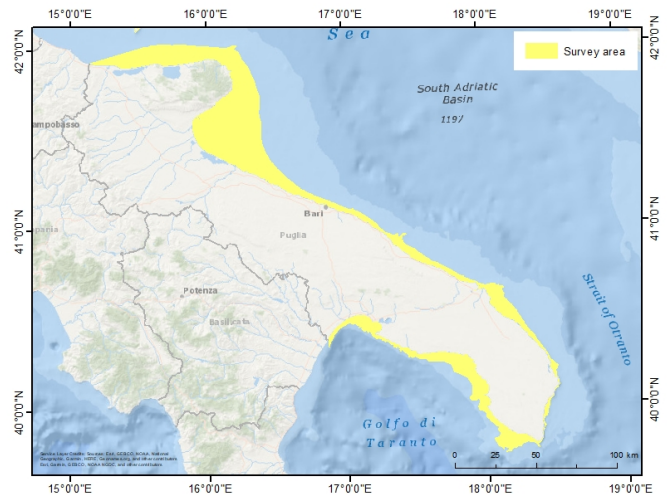


Fig. 1. Research Object Sketch

TABLE I
RESEARCH OBJECT RESOURCES

name	size	type
sketch_pos.jpg	274.8 KB	Sketch
Conclusion.txt	148.0 B	Conclusion
Hypothesis.txt	92.0 B	Hypothesis

REFERENCES

- [1] The Research Object Management Platform - ROHub <http://www.rohub.org/>.
- [2] K. Belhajjame, O. Corcho, D. Garijo, J. Zhao, P. Missier, D. Newman, R. Palma, S. Bechhofer, E. García Cuesta, J. M. Gómez-Pérez, S. Soiland-Reyes, L. Verdes-Montenegro, D. De Roure, and C. Goble “Workflow-Centric Research Objects: First Class Citizens in Scholarly Discourse”, Proceedings of Workshop on the Semantic Publishing, SePublica Crete, Greece 28 May 2012.
- [3] Belhajjame K., Zhao J., Garijo D., Gamble M., Hettne K., Palma R., Mina E., Corcho O., Gómez-Pérez J. M., Bechhofer S., Klyne G., Goble C. “Using a suite of ontologies for preserving workflow-centric research objects”, Journal of Web Semantics: Science, Services and Agents on the World Wide Web Available online 11 February 2015 ISSN 1570-8268.
- [4] Palma R., Corcho O., Gómez-Pérez J. M., Mazurek, C. “ROHub - A Digital Library of Research Objects Supporting Scientists Towards Reproducible Science”. In Semantic Publishing Challenge of Proc. Extended Semantic Web Conference (ESWC) Crete, Greece 25-29 May 2014