Land Monitoring Coregistering Step

http://emanuele79.livejournal.com/

***Abstract*—This RO describes the coregistering step**

I. Introduction

This document provides a paper-style view of the Research Object (RO) "*Land Monitoring Coregistering Step*"[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 *"Basic", which represents a general aggregation of related resources.* [2].

An overview of this RO is depicted in Figure 1. In summary, the hypothesis of this work is described in *Land_Monitoring_Workflow_hypothesis.docx*[3]; Additionally, this RO has been enriched automatically with the following annotations:

- concepts (most frequently mentioned in the RO): *MISSION, Products, Level, Reason, Segment, results, Date, Sentinel*
- domains (fields of knowledge in which the main concepts are commonly used): *military*
- frequent expressions (most frequently mentioned noun phrases): *change detection, image processing algorithm, small sample size, image archive, Synthetic aperture radar, SAR-based technique*
- named entities (most frequently mentioned):
  - Places: *French Guiana*

II. Resources

The resources encapsulated by the RO are summarized in table I

TABLE I
Research Object Resources

name	size	type
sketch.png	5.8 KB	Sketch
workflow.t2flow	6.1 KB	Workflow
Sentinel-1_User_Handbook.pdf	3.0 MB	BibliographicResource
input_AoI.txt	60.0 B	ExampleInput
input_prodID.txt	160.0 B	ExampleInput
output_prodID.txt	152.0 B	ExampleOutput
Land_Monitoring_Workflow_hypothesis.docx	11.8 KB	Hypothesis
Land_Monitoring_Workflow_conclusions.docx	11.2 KB	Conclusions

[1] *http://sandbox.rohub.org/rodl/ROs/LandMonitoring_Coregistering/*

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

[3] http://sandbox.rohub.org/rodl/ROs/LandMonitoring_Coregistering/Land_Monitoring_Workflow_hypothesis.docx

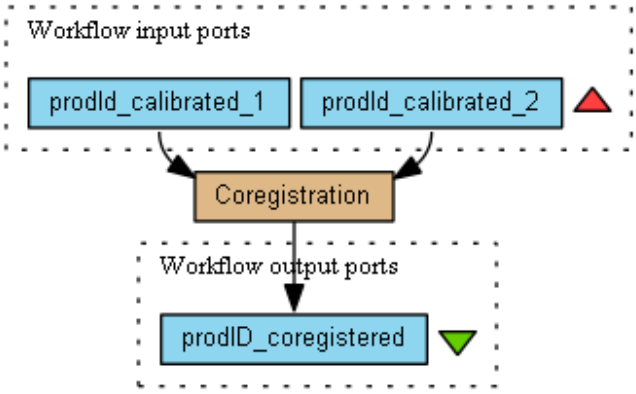


Fig. 1. Research Object Sketch

Acknowledgment

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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