# Change Detection Data Centric

*EU SatCen*

***Abstract*—Change Detection over Madrid**

## I. Introduction

This document provides a paper-style view of the Research Object (RO) "*Change Detection Data Centric*"[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 *"Data-centric", which represents an aggregation of related resources where data resources (e.g., datasets, documents, files) play the central role.* [2].

In summary, the hypothesis of this work is described in *MasterSentinel-1product*[3], *AreaofInterest*[4], *Polarization*[5], *SlaveSentinel-1product*[6]; the methods used include *definition.txt*[7]; Additionally, this RO has been enriched automatically with the following annotations:

- concepts (most frequently mentioned in the RO): *Detection*
- frequent expressions (most frequently mentioned noun phrases): *Satcen 2018, detection over Madrid*
- named entities (most frequently mentioned):
  - Places: *Madrid*

## II. Resources

The resources encapsulated by the RO are summarized in table I

TABLE I
Research Object Resources

| name | size | type |
|---|---|---|
| Input-Master.txt | 143.0 B | File |
| workflow.txt | 4.0 B | File |
| definition.txt | 0.0 B | WorkflowDefinition |
| Copyright.txt | 11.0 B | Document |

[1] *http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/*

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

[3] http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/MasterSentinel-1product

[4] http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/AreaofInterest

[5] http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/Polarization

[6] http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/SlaveSentinel-1product

[7] http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/definition.txt

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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