

# 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*”<sup>1</sup>, which is a *snapshot* generated from the live RO “*Change Detection Data Centric*”<sup>2</sup>. The ROs have 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.<sup>3</sup>

In summary, the hypothesis of this work is described in *Polarization*<sup>4</sup>, *MasterSentinel-1product*<sup>5</sup>, *AreaofInterest*<sup>6</sup>, *SlaveSentinel-1product*<sup>7</sup>; the methods used include *definition.txt*<sup>8</sup>; 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

## ACKNOWLEDGMENT

The Research Object was uploaded to ROHub by *anca popescu*. ROHub portal development was supported by EVEREST EU project (HORIZON 2020 grant 674907).

<sup>1</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d-snapshot-2/](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d-snapshot-2/)

<sup>2</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d/](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d/)

<sup>3</sup>See RO types definitions at <http://w3id.org/ro/earth-science#>

<sup>4</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d-snapshot-2/Polarization](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d-snapshot-2/Polarization)

<sup>5</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d-snapshot-2/MasterSentinel-1product](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d-snapshot-2/MasterSentinel-1product)

<sup>6</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d-snapshot-2/AreaofInterest](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d-snapshot-2/AreaofInterest)

<sup>7</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d-snapshot-2/SlaveSentinel-1product](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d-snapshot-2/SlaveSentinel-1product)

<sup>8</sup>[http://sandbox.rohub.org/rodl/ROs/s1a\\_iw\\_grdh\\_1sdv\\_20170621t061751\\_20170621t061816\\_017128\\_01c8e4\\_c27d-snapshot-2/definition.txt](http://sandbox.rohub.org/rodl/ROs/s1a_iw_grdh_1sdv_20170621t061751_20170621t061816_017128_01c8e4_c27d-snapshot-2/definition.txt)

TABLE I  
RESEARCH OBJECT RESOURCES

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

## 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