SWF Hazard Impact Model Development

http://tahsl.livejournal.com/

***Abstract*—RO to facilitate development of surface water flooding early warning systems and their impacts within the UK.**

I. Introduction

This document provides a paper-style view of the Research Object (RO) "*SWF Hazard Impact Model Development*"[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. Additionally, this RO has been enriched automatically with the following annotations:

- concepts (most frequently mentioned in the RO): *cases, Suffolk, Greater London, Minor, county, Minor, Essex*
- domains (fields of knowledge in which the main concepts are commonly used): *meteorology, geography*
- frequent expressions (most frequently mentioned noun phrases): *Suffolk minor, Northumberland minor, counties characteristic, Essex Significant, Essex minor*
- named entities (most frequently mentioned):
  - Places: *Greater London, Suffolk*

II. Resources

The resources encapsulated by the RO are summarized in table I

TABLE I
Research Object Resources

name	size	type
SWF_HIM_Flow.t2flow	45.0 KB	Workflow
Step1_SWF_PreProcess.t2flow	8.8 KB	Workflow
Step2_ImpactProcess.t2flow	8.1 KB	Workflow
Step3_CountyProcess.t2flow	8.2 KB	Workflow
Step4_RiskProcess.t2flow	7.2 KB	Workflow
SWF_HIM_Flow.png	44.0 KB	Sketch
Case study selection summary report v1.docx	1.2 MB	Document
G2G Surface Runoff uFMfSW outputs.pdf	27.8 KB	Document
FGS_Counties_A.shp	175.2 KB	Dataset
FGS_Counties_A.prj	405.0 B	Dataset
FGS_Counties_A.dbf	55.0 KB	Dataset
FGS_Counties_A.shx	972.0 B	Dataset

[1] *http://sandbox.rohub.org/rodl/ROs/nhp_hazard_impact_model/*
[2] See RO types definitions at http://w3id.org/ro/earth-science#

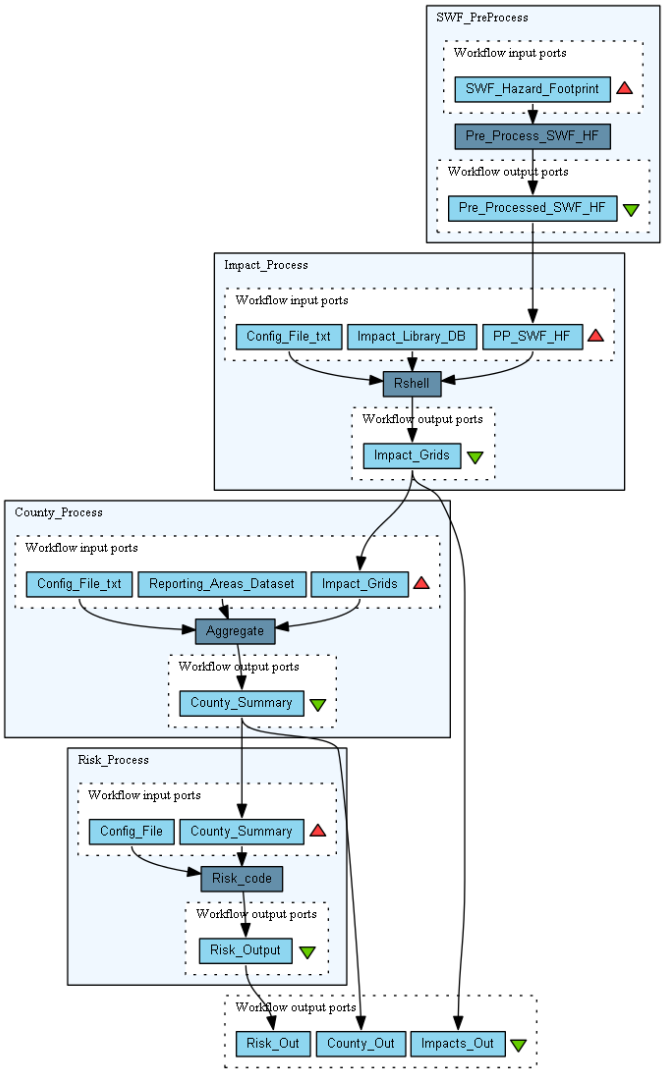


Fig. 1. Research Object Sketch

Acknowledgment

The Research Object was uploaded to ROHub by *http://tahsl.livejournal.com/*. ROHub portal development was supported by EVER-EST EU project (HORIZON 2020 grant 674907).

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