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Theme -Theme 2: Observing in Support of Adaptation and Mitigation

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Poster title (brief) Definition of Exposure and Resilience indicators for the Arctic: First insight into the potential of JRC Global Products and Methods

Abstract - text box

The European Commission Joint Research Centre (JRC) began working on an Arctic project in 2016. It brings together JRC expertise under each of the three pillars of the integrated EU Arctic policy (Climate and Environment, Sustainable Development and International Cooperation) in research that also supports the work of the EU European External Action Service as de-facto observer at the Arctic Council.

As part of this project, we are investigating the potential of JRC datasets and tools to support integrated monitoring of socio-ecological systems and the definition of indicators of risk exposure and resilience of Arctic communities and ecosystems, as a contribution to the future implementation of the Arctic Council Arctic Resilience Action Framework (ARAF).

First analyses of selected relevant JRC global scale products (Global Human Settlement Layer (GHSL), Digital Observatory for Protected Area (DOPA), Global Flood Awareness System (GloFAS) and others) are presented. Main results on the assessment of trends in threatened/impacted populations and ecosystems are illustrated from local to Arctic circumpolar scales. The potential, added-values and gaps of JRC datasets for the definition of a set of suitable physical, ecological, or societal indicators that support efficient, cost effective and integrated monitoring are then further discussed, in the light of existing JRC expertise in monitoring tools and methods in support to EU policy (e.g., Index for Risk Management (INFORM); Resilience4EU project; Centre on Composite Indicators and Scoreboards (COIN)).