**JRC Copernicus Climate Change Service (C3S) F4P platform.**

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This paper presents the Climate Change Copernicus Service (C3S) fitness-for-purpose (F4P) platform which is actually developed at the JRC. This platform aims at monitoring several Earth Observation (EO) land Essential Climate Variables (ECVs) accuracies by assessing their compliance against GCOS criteria. One component uses a quality 3-D radiative transfer modelled-based approach for assessing 1) the ground-based measurements protocols traditionally used to validate EO products and 2) several space retrieval algorithms. In the second module, we propose an automatic review of their quality at global and regional scale and present new metrics, such as the Gamma Index, to check GCOS criteria compliance, including the stability assessment.