

In the present work we study products for processing data from weather satellites named SAFNWC (SAF in Support to Nowcasting and Very Short-Range Forecasting). SAFNWC is one of the most important of EUMETSAT SAFs (dedicated centers of excellence for processing satellite data), delivering both – complex software modules, as well as operational products delivered in real-time to the end users. Main goal of the thesis is to prepare an overview of presently available software modules and their operational products, with emphasis on the MSG data. Second goal, depending on available software modules and support data resources, is to experimentally implement some of the modules in the Czech Hydrometeorological Institute (CHMI).