

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Earth Observation Systems (2)Author: Mr. Cristian Bank
EUMETSAT, GermanySTATUS OF THE METEOSAT 3RD GENERATION (MTG) AND EPS 2ND GENERATION (EPS-SG)
PROGRAMMES AND THE PREPARATORY PROGRAMMES EPS-STERNA AND EPS-AEOLUS**Abstract**

The paper presents the EUMETSAT satellite observation systems in development – the geostationary METEOSAT 3rd Generation (MTG) and the three sun-synchronous missions EUMETSAT Polar System 2nd Generation (EPS-SG), EPS-Aeolus, and EPS-Sterna. For MTG and EPS-SG, emphasis is put on the commissioning of MTG-II's instruments launched in December 2022 and the final system integration and validation activities for MTG-S1 and EPS-SG A1, some 15 months before launch of these two flagship missions. For EPS-Sterna, the small satellite constellation for microwave sounding based on ESA's Arctic Weather Satellite (AWS) to be launched in July 2024, an overview of the to-be-established constellation architecture and the planned timeline will be provided as well as a glimpse into the first data received from AWS. For EPS-Aeolus, the operational successor of ESA's highly successful proof-of-concept Doppler Wind Lidar mission Aeolus, again the operational setup and its technological and operational challenges will be discussed. For both EPS-Sterna and EPS-Aeolus, the expected impact on Numerical Weather Prediction and the resulting Socio-Economic Benefit will be explained.