SPRINCEAN, Veaceslav, PALADI, Adrian, ANDRUH, Vasili, DANICI, Anton, LOZOVANU, Petru, PALADI, Florentin. UAV-based measuring station for monitoring and computational modeling of environmental factors. In: *IEEE International Workshop on Metrology for AeroSpace, MetroAeroSpace*. Ediția a 8-a, 23-25 iunie 2021, Naples. Piscataway, New Jersey, USA: Institute of Electrical and Electronics Engineers Inc., 2021, pp. 80-85. ISBN 978-172817556-0.

Software application for computational modeling of environmental factors, in connection with U A V - based measuring station for environmental factors monitoring in realtime regime precise measurements [1], which facilitates the analysis and interpretation of the monitoring results, has been developed as an integrated mobile system for exact monitoring and computational modeling of environmental factors. This paper deals with the second stage related to the drone-dedicated system developed at the Moldova State University (MSU) in the research laboratory Environmental Physics and Modeling Complex Systems (MSU ePhysMCS Lab) for the observation and support of the air analysis for pollution, chemical and radiological contaminations [2]. The exact data are used in modeling of the impact of biotic and abiotic factors during the real-time environmental monitoring process.