

SC “Meteor-M “ - a new stage of the operating meteorological space system

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The purpose, main characteristics and distinguishing features of the construction of SC “Meteor-M”- the fourth generation of hydrometeorological polar-orbital satellites are discussed in the paper. The multipurpose designation of SC is particularly emphasized. Onboard Information Instrumentation, its designation and characteristics are presented in the paper. The paper gives the use of active and passive microwave devices and different methods of atmospheric sounding. Data radio lines of sm, dm, m ranges are listed. It is indicated that formats of data transmission are in good agreement with international formats. In the paper it is underlined that SC “Meteor-M” can be considered as a component of space subsystem of the Global Observation System of the World Meteorological Organization. The information concerning the stages of SC developing, testing and operation is also given.