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Status of FengYun Satellite Program and Future Development

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China's efforts to develop FengYun meteorological satellites have made major strides over the past 50 years, achieving the upgrade of polar and geostationary meteorological satellite series and their continuously stable operations to persistently provide data and product services globally. By the end of 2023, 21 Chinese self-developed FengYun meteorological satellites have been launched successfully. Nine of them are in orbit at present, the data and product are widely applied in weather analysis, numerical weather forecasting and climate prediction, as well as environment and disaster monitoring. In 2023, two satellites have been added to FengYun family, including FY-3G, the first precipitation measurement satellite of the FY-3 series; and FY-3F, FY-3F will undertake the in-orbit operation of FY-3C, and reinforce atmospheric component quantitative sounding and climate change monitoring and serving weather forecasting, atmospheric chemistry and climate change monitoring operation and research on the basis of ensuring near-earth orbit global imaging observation and vertical atmospheric sounding operation. FY-3G and FY-3F satellite observation data will be released to public after In-orbit testing. To promote global users application experience on FengYun satellite application, NSMC are developing a lightweight application called 'FengYun Earth'. This application platform is focused on weather forecasting related application.