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Status of FengYun Satellite Program and Future Development

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Over the past 50 years, China's efforts to develop FengYun meteorological satellites have made major strides, 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 2022, 19 Chinese self-developed FengYun meteorological satellites have been launched successfully. Seven 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 2021, two satellites have been added to the FengYun family, including FY-4B, the first operational new generation geostationary satellite, and FY-3E, the first early-morning orbit satellite in China's polar-orbiting meteorological satellite. FY-3E and FY-4B operational data have been released to the public since June 1st, 2022. To promote global users' application experience on FengYun satellite application, NSMC is developing a lightweight application called 'FengYun Earth'. This application is focused on weather forecasting related application and will release a trial version at the end of 2022.