

Polar Orbiting Meteorological Satellite Systems

STATUS OF RUSSIAN POLAR ORBITING METEOROLOGICAL SATELLITE SYSTEM

Summary and purpose of the WP

Russian polar orbiting meteorological satellite Meteor-3M N1 continues its operation with limited capabilities.

Action proposed: no action required.

**STATUS OF RUSSIAN POLAR ORBITING METEOROLOGICAL
SATELLITE SYSTEM**

The polar orbiting meteorological satellite Meteor-3M N1 was launched in 2001 and continues its operation at circular sun-synchronous orbit inclined at 99.6 degrees with 09:15 a.m. ascending node (morning orbit).

Because of technical problems with on-board devices, only the data of MSU-E and SAGE – III are available at present.

MSU-E: 3-channels VIS/NIR scanning radiometer (0.5-0.6, 0.6-0.7, 0.8-0.9 μm) for high-resolution (38 m) limited swath imagery (46 km). MSU-E data are transmitted in X-band. Data acquisition, processing, archiving, derivation and dissemination of products are being performed on routine basis by Roshydromet centres.

SAGE-III (Stratospheric Aerosol and Gas Experiment – III): a NASA-provided spectrometer in 9 bands of the 290-1550 nm range for high-vertical-resolution atmospheric sounding (1-2 km) during solar or lunar occultation. SAGE – III data direct broadcast is carried out only for USA ground centre in S –band.