

Currently operations with the spacecraft "Spectrum-R" are carrying out according to 15 daily program of the first technological stage from the moment of its start. All the service systems of SC "Spectra-R", (deployment of the antenna, its fixation, switching on of the onboard H-maser, pointing of the sharp directional antenna to Puschino TS) are checking.

- **July, 23rd, 2011** -- deployment and fixation of the SRT antenna is done.
- **July, 25th, 2011**-- detenting of a VIRK sharp directional antenna drive is done.
- **July 26th, 2011** -- a procedure of onboard H-maser thermostats switching on preparation was done.
- **July 27th, 2011** -- after passage of shadow and a pericentre the onboard H-maser was successfully turned on.
- **August 4th** -- the spacecraft "Spectr-R" has passed a pericentre on distance of 2000 km from the Earth. The receiver and transmitter of PFS (this part of high informational radio channel (VIRK) is responsible for creation of a synchronization phase loop of TS and SC) was successfully switched on.
- **August 12th** -- the spacecraft "Spectr-R" has passed a perigee on distance of 4000 km.
- **August 13th** – a highly directive antenna pointing of a high informational channel (VIRK) on the Puschino TS antenna was switched on. Within two hours the communication session with Puschino TS in mode loop of phase stability (LPS, a phase loop) was proceeded.
- **August, 18th** -- full engagement of the high informational radio channel (VIRK) transmitter has been done. In connection with some features of SC position in the orbit currently the Puschino tracking station (TS) "has seen" a side lobe of the VIRK directional pattern. A complete session SC -- Puschino TS is planned on August 21st when the SC is going to be in the domain of the perigee.

Total engagement of VIRK is the second key event for onboard scientific payload functioning after deployment and fixation of the SRT antenna (July, 23d, 2011)!

All systems and units of SC work in a normal mode.

Larisa Likhacheva
larikh@asc.rssi.ru

Boris Novikov
nbs@mx.iki.rssi.ru