

## ARISS & AMSAT-R

RV3DR - coordinator for HAM radio space programs

ISS - opportunity to change the equipments; power energy; long life time

Tasks for the near future:

- YAESU equipments + accessories
- technical support
- ARISS Russian WEB pages
- SHADOW experiment

Packet Radio systems on ISS or What kind of a system we would like to build on ISS:

- Applications -> technical requirements
- Activity on HAM satellites - crisis of the genre ?
  - o PR (1989), AMPR (1993) and PMR
  - o No new services - No long time interest
- Minimal involvement of the crew in HAM radio sessions -> (server + client) for applications
- For security reasons HAM server can not have electrical connections with ISS net
  - o Q: orbital data and pictures over memory flash to server (Apl)
- PR problems - move PR system to TNC3 -> TNC3 + server
- Q: High Speed Transport link "Ground -ISS" and Applications over link
  - o Or/and independent applications
- Migration from analog to digital - ICOM ID1 (Miles) - PMR way
  - o Support the idea of digital TRX (voice + data)
  - o Open standards and open interfaces
  - o Type approval for the countries (freq, bw, modulation, standard, TX power)
  - o Price
  - o Design or purchase?
  - o ICOM ID1 on ISS ??? (TDMA)

- PR / IP systems for ISS services
- AO-40 equipments & ISS

AMSAT-R open for the cooperation