

46th IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) –
The Next Steps (A4)
SETI 1: SETI Science and Technology (1)

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MAIN RESULTS OF THE SETI-OBSERVATIONS WITH THE RATAN-600 RADIO TELESCOPE IN
2015 AND 2016 SESSIONS.

Abstract

Regular observations according to the SETI program were carried out on the Russian radio telescope RATAN-600 since 2015. The objects of observations were about 30 sun-like stars and two globular clusters with a high metallicity. The basic idea inherent the program is repeated multiple observations of the same objects. It will allow to find with guarantee a signal of duration exceeding a period of observations if it enters a transmission band of the receiver and has sufficient amplitude. Besides, this method allows to carry out a collection of a signal that allows to reveal a weak steady signal which cannot be found in a single measurement. The main results of the observations in 2015-2016 are presented in the report. The found limits of a radio emission for the objects of the used list of the SETI-candidates are given. Some unusual events are discussed.