A method for suppression of outer sources signals in on-board receivers of unmanned vehicles is disclosed. The method comprises radio reconnaissance of outer sources signals, the received signals are analyzed, type of interference and direction of radiation are chosen, and radio interference beam is directed to an airplane via a radar station. Process of formation and radio frequency interference emission is finished via resurvey and estimation of radio suppression efficiency; thereafter, an interfering transmitter is disconnected. In a certain sector of radio suppression, a radar intelligence of air environment is performed; the coordinates of targets are determine, classified, their quantity is determined; interference beams are installed on targets at frequency of signals of outer sources.