

A method for avoiding the collision of a spacecraft with a dangerous extraterrestrial object is based on the increase of the distance between these bodies to the safe value. Prior to the admission to the area of uncertainty of location of the extraterrestrial object the spacecraft is divided into two parts, they are connected between them by flexible links, for example, cables, then they are separated in opposite sides from each other and the cables are released for the length with possibility of their passage beyond the limits of dangerous area. Then the length of cables is reduced in order to connect the parts into one final structure, and dangerous area is defined by association of areas of uncertainty of location of the object and spacecraft, for example, as geometric sum of mean-square deviations of characteristic dimensions of these areas. The device for implementation of the method includes flexible links, for example, cables connected with separable parts of the spacecraft, and the device for removal of links beyond the limits of the spacecraft. The spacecraft is made of two parts connected between them by flexible links, for example, cables. Between the parts of the spacecraft the pushers are mounted, for example, springs, at least on one part the electric winch is mounted, on which the cables are reeled, the length of these cables is greater than the double value of maximal characteristic dimension of the area of uncertainty of location of the extraterrestrial object.