

9.0 CONCLUSION (Continued)

space weapon systems. The highest risk satellites were determined to be military satellites foremost. Within the military satellite classification, the satellites of highest risk were determined to be:

- (a) Dedicated targeting systems
- (b) Spacebased weapon systems
- (c) Surveillance and reconnaissance systems
- (d) Navigation systems
- (e) Communication systems

where the first two categories having yet to be deployed in space. Of the satellite systems that have been deployed, four orbital quantizations were found to be employed. These orbital domains were classified as:

- (a) Low earth orbit
- (b) Semi-synchronous
- (c) Highly elliptic
- (d) Geosynchronous

and all fall within an altitude of 50,000 km above the surface of the earth. In addition, the most utilized orbit was determined to be the low earth orbit and it was found to contain most of the higher risk military satellites.

In answering the first question:

"Can space observations determine the role or function of an object in space?"

Reference [1] went a long way towards defining the observations required to detect the presence of weapons in space. This earlier report focussed its attention to a particular class of future spacebased weapons, the antisatellite weapon. The present study expanded the