

Table 1

**Current
Nonweapon
Space
Operations**

- Geodesy
- Astronomy
- Navigation
- Surveillance
- Meteorology
- Space Stations
- Communications
- Lunar Exploration
- Earth Observation
- Search and Rescue
- Manned Orbital Shuttles
- Space Physics Research
- Interplanetary Exploration
- Microgravity Experimentation

them out. Some of these satellites are currently available — for example, transport of astronauts into orbit in support of a manned lunar base will likely be carried out, at least initially, by currently-available manned orbital shuttles using currently operational or soon-to-be-operational space stations as stopping points — others are new. The operations vehicles listed in Table 2 are in addition to those currently available.

Table 2

**Future
Nonweapon
Space
Operations
(Planned)**

- Lunar Bases
- Lunar Orbiters
- Mass Catchers
- Microspacecraft
- Orbital Factories
- Interplanetary Bases
- Antimatter Propulsion
- Lunar Ferries/Landers
- Solar Power Satellites
- Telerobotic Spacecraft
- Interstellar Exploration
- Lunar Shuttling Stations
- Orbital Debris Sweepers
- Orbital Transfer Vehicles
- Interplanetary Ferries/Landers
- Interplanetary Shuttling Stations