

**APOLLO APPLICATIONS
LONG DURATION FLIGHT OBJECTIVES**

- **MEASURE EFFECTS OF LONG DURATION FLIGHTS ON MEN AND SYSTEMS.**
- **ACQUIRE OPERATIONAL EXPERIENCE.**
- **DEVELOP SYSTEMS REQUIRED FOR NEXT GENERATION OF MANNED SPACE FLIGHT.**
- **PERFORM EXPERIMENTS**

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FIGURE 19

**MAJOR BENEFITS FROM WORKSHOP
AND ATM MISSIONS**

- **OBTAIN SOLAR ASTRONOMICAL OBSERVATIONS DURING PERIOD OF SOLAR MAXIMUM ACTIVITY**
- **DETERMINE MAN'S EFFECTIVENESS AS AN ASTRONOMICAL OBSERVER IN SPACE**
- **TEST ALTERNATE OPERATING MODES FOR FUTURE LARGE MANNED ORBITAL TELESCOPE**
- **DEVELOP CAPABILITY FOR REUSE OF SPACE HARDWARE WHICH WILL REDUCE PROGRAM COSTS**
- **DETERMINE EFFECTS OF EXTENDED DURATION SPACE ENVIRONMENT ON MEN AND SYSTEMS**
- **DETERMINE EFFECTS OF ARTIFICIAL GRAVITY ON MEN AND SYSTEMS**
- **DEVELOP EFFECTIVE MANNED EXTRAVEHICULAR CAPABILITY**

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FIGURE 20