

# PRESIDENT'S SCIENCE ADVISORY COMMITTEE REPORT

FEBRUARY, 1967

## RECOMMENDATIONS AFFECTING MANNED SPACE FLIGHT

### SPACE SCIENCE IN EARTH ORBIT

ESTABLISH IN EARTH ORBIT  
A NUMBER OF ASTRONOMICAL  
FACILITIES, WHICH BY THE  
END OF THE 1970'S WILL  
CONSTITUTE AN ORBITING  
ASTRONOMICAL OBSERVATORY.

## APOLLO APPLICATIONS PLANS

ATM EXPERIMENT  
NECESSARY PRELIMINARY  
STEP - MAJOR AAP  
OBJECTIVE

NASA HQ MC 67-5993  
3/13/67

FIGURE 20

# PRESIDENT'S SCIENCE ADVISORY COMMITTEE REPORT

FEBRUARY, 1967

## RECOMMENDATIONS AFFECTING MANNED SPACE FLIGHT

### BIOMEDICAL STUDIES AND THE QUALIFICATION OF MAN FOR LONG SPACE MISSIONS

1. PHYSIOLOGICAL AND PSYCHOLOGICAL  
STUDIES OF MAN FOR EXTENDED  
PERIODS IN SPACE. THESE EXPERI-  
MENTS TO BE USEFUL IN PREDICTING  
PERFORMANCE IN INTERPLANETARY FLIGHT
2. ORBITAL WORKSHOP EXPERIMENT SHOULD  
PROCEED
3. STUDY BE MADE OF THE SUITABILITY,  
COST AND AVAILABILITY OF TITAN III/MOL  
SYSTEMS FOR BIOMEDICAL STUDIES OF MAN  
FOR PERIODS UP TO 60 DAYS.
4. USE THE MOL PROGRAM AS SOURCE OF DATA  
ON THE CAPABILITIES OF MAN FOR MISSIONS  
LASTING 14 TO 30 DAYS.
5. BIOMEDICAL STUDIES INVOLVE EXTENDED  
DURATION FLIGHTS OF 100 DAYS OR MORE,  
AND WILL REQUIRE MAJOR REDESIGN OF MOL  
COMPONENTS, OR MAJOR NEW DEVELOPMENTS  
IF BASED ON APOLLO HARDWARE. NASA MUST  
DETERMINE MOST EFFECTIVE AND ECONOMICAL  
APPROACH.

## APOLLO APPLICATIONS PLANS

1. IN LINE WITH DETERMINING  
USEFULNESS OF MAN IN SPACE  
AND LONG DURATION FLIGHT  
OBJECTIVES AND EXPERIMENTS
2. PART OF AAP  
MISSIONS
3. PART OF THE FUNCTION OF  
THE MANNED SPACE FLIGHT  
EXPERIMENTS BOARD AND THE  
AACB
4. PART OF THE FUNCTION OF  
THE MANNED SPACE FLIGHT  
EXPERIMENTS BOARD WHICH IS  
JOINTLY CHAIRED BY THE DOD.
5. PART OF THE FUNCTION OF  
THE AACB AND MSFEB

NASA HQ MC 67-5989  
3/13/67

FIGURE 21