PLANTARY EXPLORATION
PROGRESS AND PROMISE

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PLANETARY EXPLORATION
PROGRESS-1978

NASA SPACE SCIENCE
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5-YEAR PLAN

NASA OSS 5-YEAR PLAN:
PLANETARY PROGRAM
FUNDING

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from NASA Headquarters 5-year plan

May 1978
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THE FUTURE

RECONNAISSANCE  COMETS  ASTEROIDS  URANUS

HALLEY RENDEZVOUS  MULTIPLE ASTEROID RENDEZVOUS  VOYAGER EXTENDED MISSION

EXPLORATION  VENUS  SATURN  MERCURY

VENUS VOIR  SATURN SOP²  MERCURY MeO

INTENSIVE STUDY  MARS  MOON

MARS 84  MSR  LPO

SPACE UTILIZATION  MOON

MOON LPO
### Inner Planets Plan

- **Current Programs**
  - Viking
  - Pioneer Venus
- **FY 79-83 New Starts**
  - Mars 1984
  - Venus Orb. Imag. Radar
  - Lunar Polar Orbiter
  - Mercury Orbiter
  - Mars Sample Return

### Outer Planets Plan

- **Current Programs**
  - Pioneer 10 & 11
  - Voyager
  - Jupiter Orbiter/Probe
- **FY 79-83 New Starts**
  - Saturn Orb/Dual Probe
  - Voyager - Uranus

### Small Bodies Plan

- **Current Programs**
  - None
- **FY 79-83 New Starts**
  - Halley Rendezvous
  - Asteroid Mut. Rend
PLANETARY EXPLORATION PROGRESS - 1978

EXTENDED EXPLORATION
DETAILED STUDY, RESOURCE UTILIZATION
MINERALOGY, PETROLOGY, AGE DATING, EXOBIOLOGY
EXTENDED SURFACE MEASUREMENTS
SURFACE COMPOSITION, GEOLOGY, EXOBIOLOGY
DETAILED ATMOSPHERIC STRUCTURE, COMPOSITION
GLOBAL GEOLOGY, GEOCHEMISTRY, GEOPHYSICS, ATMOSPHERIC DYNAMICS
SURFACE MAPPING, PRELIMINARY ATMOSPHERIC & MAGNETOSPHERIC SURVEY
GROSS CHARACTERISTICS, SURFACE FEATURES
SOLAR SYSTEM ENVIRONMENT
GENERAL SURVEY

MANNED LANDING SAMPLE, RETURN ROVER LANDER ATMOSPHERIC PROBE POLAR ORBITER PRELIMINARY ORBITER FLYBY INTERPLANETARY PROBE

TELESCOPES

MOON MARS VENUS JUPITER MERCURY SATURN GALILEAN SATELITES TITAN URANUS COMETS ASTEROIDS OTHER SATELITES NEPTUNE PLUTO

ACCOMPLISHED
APPROVED
UNDER STUDY
USSR

BALANCED PROGRAM