

SCIENCE AND APPLICATIONS DIRECTORATE

- LUNAR EXPLORATION
 - LUNAR RECEIVING LABORATORY
- EARTH SCIENCES AND APPLICATIONS
 - MANNED METEOROLOGY
 - NATURAL RESOURCES SURVEY
- SPACE PHYSICS
- EXPERIMENTS
- SCIENTIFIC TRAINING OF ASTRONAUTS

SLIDE 43

We are studying and analyzing (slide 45) the Lunar Orbiter pictures in an effort to select the landing site for the Apollo lunar landings.

Also, we are developing the experimental hardware which will be left on the Moon in the Apollo missions. This (slide 46) is the so-called ALSEP, Apollo Lunar Surface Experiments Package, that will be placed on the lunar surface in the Apollo missions.

Our newest facility is the Lunar Receiving Laboratory (slide 47), which will test and analyze the lunar samples when they are brought back by the astronauts from the Moon in Apollo.

My last series of slides show pictures taken in Gemini. Most of these pictures were taken in Gemini-XI during the flight to the altitude record of 851 miles. In Gemini we took 2,400 pictures of this kind. They indicate to us how pictures like this can be used to gain a better understanding of the Earth's natural resources; and with this understanding, perhaps, we will have a better ability to manage these resources in the years to come.

The first photograph (slide 48) was taken just west of the Red Sea. You see 2,000 miles of the Nile River in one picture. It was taken with a Hasselblad camera at an altitude of about 200 miles.

Moving a little farther east, this (slide 49) is the northern end of the Red Sea, going into the Gulf of Suez. The Suez Canal is here. The Gulf of Aqaba, the Dead Sea, and the Sea of Galilee can also be seen. Bagdad is here, the Sinai Peninsula here. Here is an interesting feature. Just before the men passed over this point in Gemini XI, an oil pipeline burst and a fire started. Although they did not see it