

ELECTRICAL PROPERTIES EXPERIMENT -- The Apollo-17 surface electrical properties experiment is designed to determine layering in the lunar surface, to search for the presence of water below the surface, and to measure the electrical properties of the lunar material on location. Instrumentation includes a solar-panel-powered transmitter and multiple frequency antenna (left) deployed at least 70 meters from the lander and 70 meters from the ALSEP (Apollo lunar surface experiments package), and a receiver (right) with tri-loop receiving antenna and data recorder mounted on the lunar roving vehicle. It is utilized while the rover is in motion. Six frequencies ranging from 1 to 32 megahertz allow probing of the subsurface from a few meters to several kilometers. The data recorder is returned to Earth for analysis. (72-6587)

