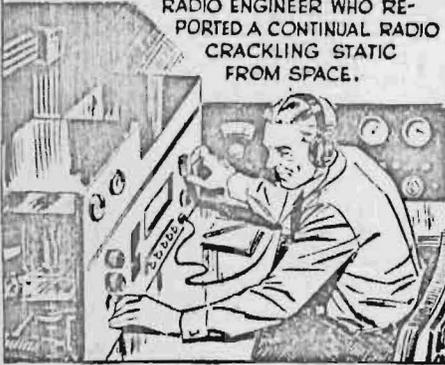


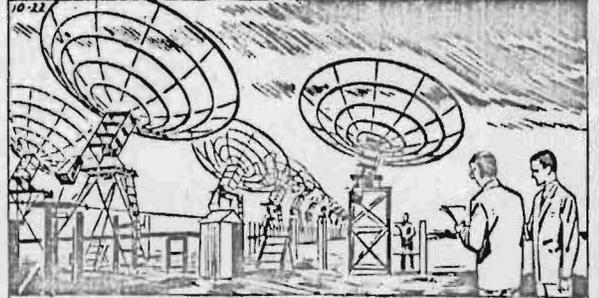
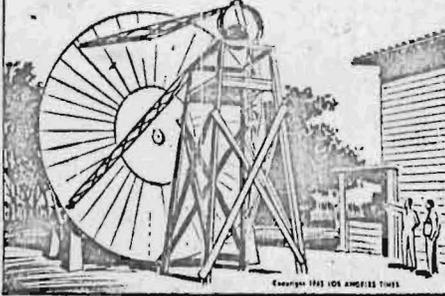
FRONTIERS OF SCIENCE

LISTENING TO THE STARS - Part 2

HISTORICALLY, THE EARLIEST INDICATION THAT "RADIO NOISE" CAME FROM THE HEAVENS WAS OBTAINED IN THE U.S. IN 1932 BY KARL JANSKY, A BELL TELEPHONE RADIO ENGINEER WHO REPORTED A CONTINUAL STATIC CRACKLING STATIC FROM SPACE.



THE ONLY REACTION TO JANSKY'S REPORT WAS BY AN AMATEUR RADIO ENTHUSIAST, GROTE REBER OF ILLINOIS, WHO BUILT THE FIRST "BIG DISH" — A 31-FOOT, DISH ANTENNA — IN HIS BACK YARD. REBER ALSO PICKED UP THE HISSING SIGNALS FROM SPACE.



IT WAS, HOWEVER, THE URGENCY OF WAR NEEDS WHICH FORCED SCIENTISTS TO CONSIDER THAT THE SUN EMITS RADIO SIGNALS AS WELL AS LIGHT. IMMEDIATELY AFTER THE WAR SCIENTISTS, PARTICULARLY IN ENGLAND AND AUSTRALIA, DEVELOPED APPARATUS TO "LISTEN" TO OTHER STARS AND DISTANT GALAXIES. THE "RADIO WINDOW" TO THE HEAVENS WAS OPENED.

arrive 8/7/9/64