EQUIPMENT UNDER CONSTRUCTION FOR LOCATING SOURCES OF SOLAR NOISE AT 4,000 MC

HARUO TANAKA and TAKAKIYO KAKINUMA

With the intention of locating sources of radio noise from the disturbed sun at 4,000 MC, an interferometer with 5 aerials has been constructed since May in 1952. Each aerial has a paraboloidal reflector of size 1.5 metre in diameter, which can be rotated equatorially. They are placed in E-W direction at 6 m intervals. The lobes will be spaced 43′ apart and each lobe will have a half-power width of 7.8′. As the sun passes through the aerial pattern, it would be scanned stripwise by each lobe in turn for a few hours near meridian passage. It is preferable to use 8 aerials in order to join them together with minimum loss, but the financial condition compelled us to 5 for the time being. Test observations are expected to be performed in April, 1953. Details will be reported in the next bulletin.