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Geographic Sort Capabilities/Tuning

1. The geographic sort of emitter signals has been found to be a very powerful tool for reducing the amount of collected data in a mission to a reasonable level that can be easily examined.
2. At the present time, with the accuracy of ephemeral available to [] and with the present sophistication of software, it is believed that signals from emitters within a [] circle can be discriminated and sorted for - This is a much better resolution than had been originally hoped for.
3. Presently, the output of the geographical sort programs is in the form of an individual pulse so that much detailed data is outputted for each emitter determined to be within the area of sort.
4. Software is presently being developed so that more compact information of emitters determined to be within the area of sort will be printed out to the operator.

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These forms of outputting information to the operator will greatly enhance his ability to pick out ^{interesting} ~~new~~ emitters arising in a geographic location of interest.

6. Presently, the software allows a capability of sorting against up to 16 different locations around town.

7. If all calculations that can be done previous to the mission are done ~~previous~~ ^{prior} to the mission, and the data necessary for the geographic sort is ready on date 12-24-54, the mission is ~~completely~~ ^{completely} ready to be used as soon as the mission is ~~completely~~ ^{completely} ready to begin the geographic sort. It is technically approximately

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5 minutes for each location sorted against. For example, if two locations are being sorted for, the geographic sort for both locations would be finished in approximately 10 minutes.

8. Presently, the output of the geographic sort program is put on magnetic tape, and then the magnetic tape is listed on a teletype page printer which is exceptionally slow. Within two weeks however, a line printer will be installed into the system which will speed up printed output by over 100 times.
9. Further improvements in software are continually being made to facilitate easier ^{and faster} pre-mission calculations, and to reduce operator errors.

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