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INCOMING
NRL SPECIAL PROJECTS CONTROL NUMBER

B1173-92

~~SEC~~/BB

DATE
681001

ORIGINATOR	SERIAL NO. MESSAGE	ENCLOSURES 0

RECEIVED 681002	COPY NUMBERS 1	RECEIPT NO. H/C

SUBJECT
LM MSG SCAN PLOT

DISTRIBUTION INFO

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NRL INCOMING DOCUMENT

B1173-92-1 MESSAGE

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FINISH FILE

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~~S E C R E T~~ BBBBB EARPOP BYEMAN CHANNELS
SCAN PLOT
1. PROGRAM R1AO9G (SCAN PLOT) HAS BEEN EXTREMELY USEFUL IN RECENT
LOCATION AND ANALYSIS EFFORTS WHEN MORE THAN ONE EMITTER OF ONE
TYPE IS INTERCEPTED ON THE SAME PASS. THE PROGRAM HAS BEEN
USED TO DETERMINE:
(A) THE REPORTED AVERAGE SCAN RATE,
(B) WHICH DATA BURSTS IN THE P5D OUTPUT ARE PART OF A
PARTICULAR EMITTER BEING WORKED,
(C) HOW MANY EMITTERS ARE IN THE DATA,
(D) UP AND DOWN TIMES FOR EACH OF THE EMITTERS,
(E) WHERE TO GO IN U4FO9G TO DETERMINE AVERAGE PRF AND AVERAGE
COMPLEX RATE, IF ANY.
2. THE SCAN PLOT ONLY ACCEPTS INTEGER ENTRIES FOR SCAN RATE FROM
4 TO 99 SECONDS. AS A RESULT THE ASTERISKS DENOTING EACH BURST
WILL RUN OFF THE LEFT OR RIGHT MARGINS AND BE PICKED UP ON THE
OPPOSITE SIDE UNLESS THE EMITTER HAS A SCANMATE VERY CLOSE TO
THE INTEGER INPUT. WHEN A NUMBER OF SUCCESSIVE BURSTS ARE
MISSING IT IS VERY DIFFICULT TO DETERMINE WHETHER OR NOT THE
ASTERISKS LINE UP TO INDICATE A SINGLE EMITTER. ONE-HUNDREDTH
OF A SECOND SCAN RESOLUTION INPUT WOULD PROVIDE A CLEARER
PICTURE OF EACH EMITTER AND SIMPLIFY DETERMINATION OF THE
AVERAGE SCAN RATE. IN ADDITION, THE ONE-HUNDREDTH SECOND
RESOLUTION WOULD PERMIT PRECISE ANALYSIS OF COMPLEX SCAN RATES.
INCREASED RUN-TIME COULD BE COMPENSATED FOR BY PERMITTING
SELECTION OF A START TIME FOR LINE PRINTER OUTPUT AS IN
PROGRAM K2AO9F (THE LINE PRINTER COUNT LIST).
280

NOTE: PASSED TO HRB SINGER — 4 OCT 68