

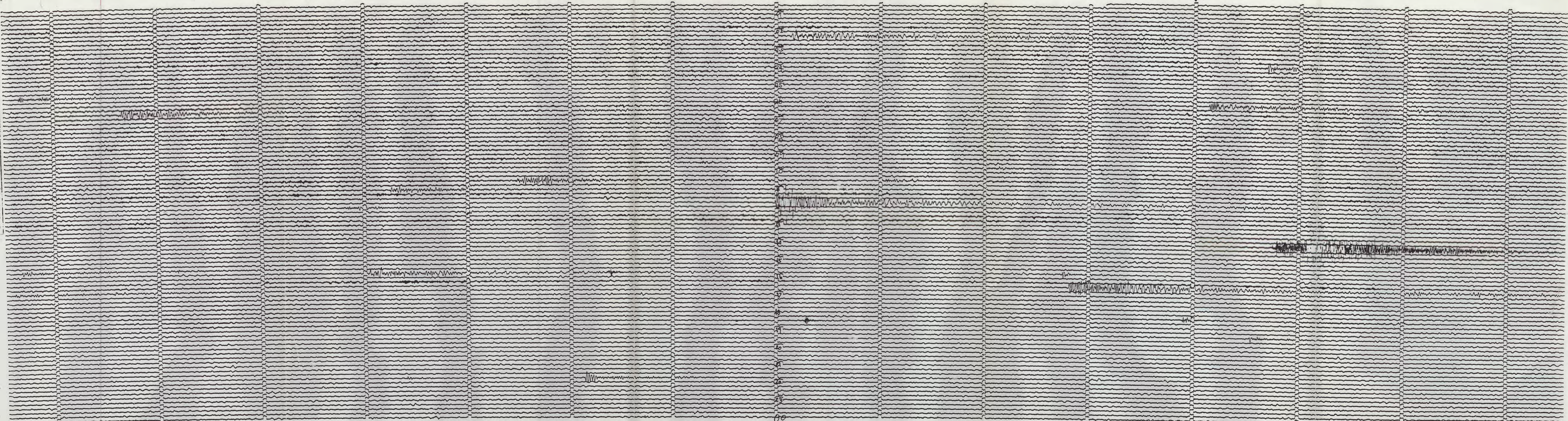
Plate 1. A representative example of the best performance of the detector, relative to an analyst. Operational settings are used:  $X_{th1} = 2.0$ ,  $X_{th2} = 1.5$ ,  $F_{ilhi} = 0.2$  sec,  $F_{illo} = 2.0$  sec,  $W_{in} = 4.0$  sec. Even though cultural noise is obvious for the first one-half of the day, only 6 triggers are related to this type of noise. There are not any microseism-related false alarms. Almost all of the clear signals are detected and timed adequately. So that the reader can make an independent evaluation, the output of the detector is shown below.

| P | LB | QUALITY | YR | DAY | HR | MIN | SEC   | AMPLITUDE  | PERIOD | S'         |
|---|----|---------|----|-----|----|-----|-------|------------|--------|------------|
| C | 1  | 00158   | 0  | 283 | 00 | 15  | 18.72 | 0.6798E+05 | 0.84   | 0.8643E+04 |
| D | 1  | 11122   | 0  | 283 | 00 | 57  | 27.37 | 0.1540E+05 | 0.38   | 0.8728E+04 |
| D | 0  | 10311   | 0  | 283 | 02 | 15  | 10.62 | 0.4679E+05 | 0.55   | 0.8994E+04 |
| D | 2  | 00112   | 0  | 283 | 03 | 17  | 30.32 | 0.2135E+05 | 0.44   | 0.1168E+05 |
| C | 0  | 00256   | 0  | 283 | 03 | 49  | 42.17 | 0.5727E+05 | 0.68   | 0.9948E+04 |
| D | 0  | 01233   | 0  | 283 | 05 | 22  | 40.67 | 0.3757E+05 | 0.80   | 0.6962E+04 |
| C | 1  | 00134   | 0  | 283 | 06 | 04  | 09.12 | 0.4630E+05 | 0.84   | 0.8778E+04 |
| C | 0  | 00344   | 0  | 283 | 06 | 23  | 40.37 | 0.5625E+05 | 0.89   | 0.1004E+05 |
| C | 1  | 11122   | 0  | 283 | 08 | 36  | 19.02 | 0.1938E+05 | 0.40   | 0.8769E+04 |
| C | 2  | 01112   | 0  | 283 | 10 | 27  | 29.17 | 0.2043E+05 | 0.41   | 0.1048E+05 |
| C | 0  | 01221   | 0  | 283 | 10 | 31  | 03.77 | 0.1742E+05 | 0.38   | 0.9953E+04 |
| C | 0  | 01331   | 0  | 283 | 10 | 56  | 16.42 | 0.2567E+05 | 0.71   | 0.8437E+04 |
| C | 0  | 11232   | 0  | 283 | 11 | 00  | 39.37 | 0.1942E+05 | 0.59   | 0.7516E+04 |
| C | 2  | 11112   | 0  | 283 | 11 | 10  | 20.17 | 0.1963E+05 | 0.39   | 0.1196E+05 |
| D | 0  | 00399   | 0  | 283 | 11 | 45  | 00.07 | 0.1064E+06 | 0.95   | 0.5964E+04 |
| C | 1  | 00122   | 0  | 283 | 11 | 55  | 50.97 | 0.1630E+05 | 0.61   | 0.6715E+04 |
| D | 1  | 11122   | 0  | 283 | 14 | 04  | 45.92 | 0.1224E+05 | 0.32   | 0.6774E+04 |
| D | 1  | 21232   | 0  | 283 | 14 | 06  | 26.42 | 0.4349E+05 | 0.65   | 0.6774E+04 |
| D | 1  | 11132   | 0  | 283 | 15 | 22  | 41.22 | 0.2071E+05 | 0.68   | 0.6213E+04 |
| C | 0  | 01213   | 0  | 283 | 15 | 41  | 02.92 | 0.2704E+05 | 0.56   | 0.6037E+04 |
| D | 0  | 01222   | 0  | 283 | 15 | 43  | 23.02 | 0.4167E+05 | 0.41   | 0.9997E+04 |
| C | 0  | 11368   | 0  | 283 | 15 | 47  | 45.82 | 0.4188E+05 | 0.52   | 0.5468E+04 |
| C | 1  | 11122   | 0  | 283 | 16 | 11  | 23.47 | 0.2181E+05 | 0.37   | 0.1018E+05 |
| C | 0  | 10499   | 0  | 283 | 16 | 32  | 49.52 | 0.6659E+05 | 0.86   | 0.5159E+04 |
| C | 0  | 00222   | 0  | 283 | 16 | 36  | 10.12 | 0.2278E+05 | 0.80   | 0.1117E+05 |
| D | 0  | 10246   | 0  | 283 | 18 | 18  | 55.12 | 0.3496E+05 | 0.66   | 0.5944E+04 |
| D | 2  | 01112   | 0  | 283 | 18 | 30  | 17.12 | 0.4879E+05 | 0.37   | 0.5752E+04 |
| D | 0  | 01793   | 0  | 283 | 19 | 33  | 32    | 0.3022E+05 | 0.60   | 0.3496E+04 |
| D | 0  | 00233   | 0  | 283 | 20 | 34  | 22.47 | 0.9179E+04 | 0.57   | 0.3247E+04 |
| C | 0  | 01342   | 0  | 283 | 21 | 41  | 24.72 | 0.1739E+05 | 0.65   | 0.4391E+04 |
| D | 0  | 00266   | 0  | 283 | 21 | 43  | 08.92 | 0.5408E+05 | 0.95   | 0.8541E+04 |
| D | 1  | 11123   | 0  | 283 | 23 | 58  | 44.02 | 0.1750E+05 | 0.54   | 0.6514E+04 |

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This report is preliminary and has not  
 been reviewed for conformity with U.S.  
 Geological Survey editorial standards.

CHTO BRO-S-277 TTY CAL/AL4 HELLI-DB MAC-200-K SEIS # 1-2  
 ON DATE OCT 1 1980 UT DAY # 282, 00.00 HR 14.14 MIN CORR -2.61 MS  
 OFF DATE OCT 1 1980 UT DAY # 284, 22.00 HR 14.14 MIN CORR -2.61 MS  
 CHANNEL 2/E/



SPZ  
0099

0005

CHTO 0281