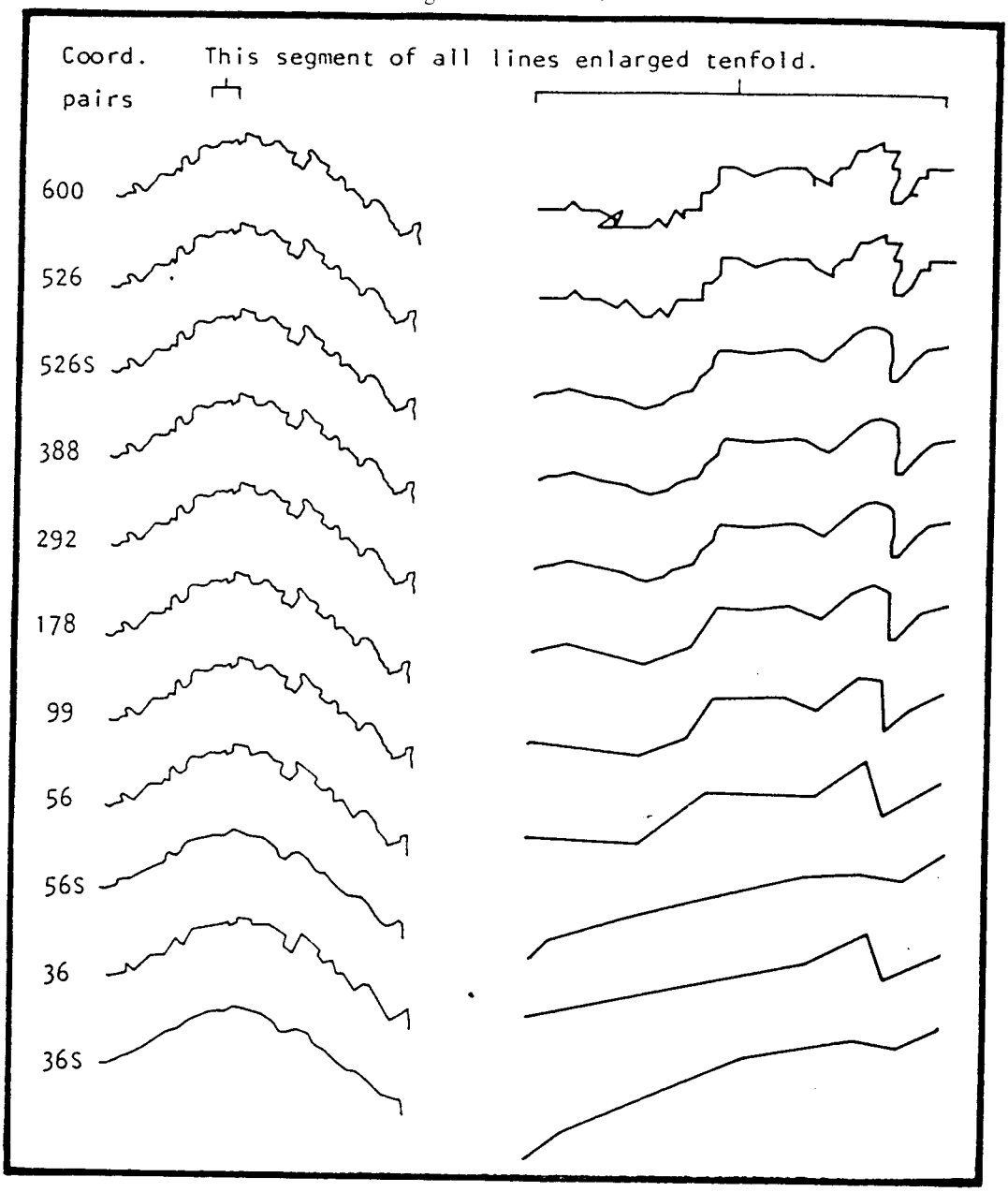

FIG. 4. These eleven rows of linear representation were selected to illustrate various post data-capture processing techniques. The bracket over the top line of the left column indicates the positions of each of the tenfold enlargements shown in the righthand column. Line 600 is a plot of a visually edited file, line 526 is a plot of a software edited file, and line 526S illustrates the use of a gentle smoothing algorithm. Lines 388, 292, 178, 99, 56, and 36 are plots of files created by a point elimination algorithm applied to file 526S. Lines 56S and 36S illustrate the use of a more rigorous smoothing operator when preparing lines for substantial reductions of scale.

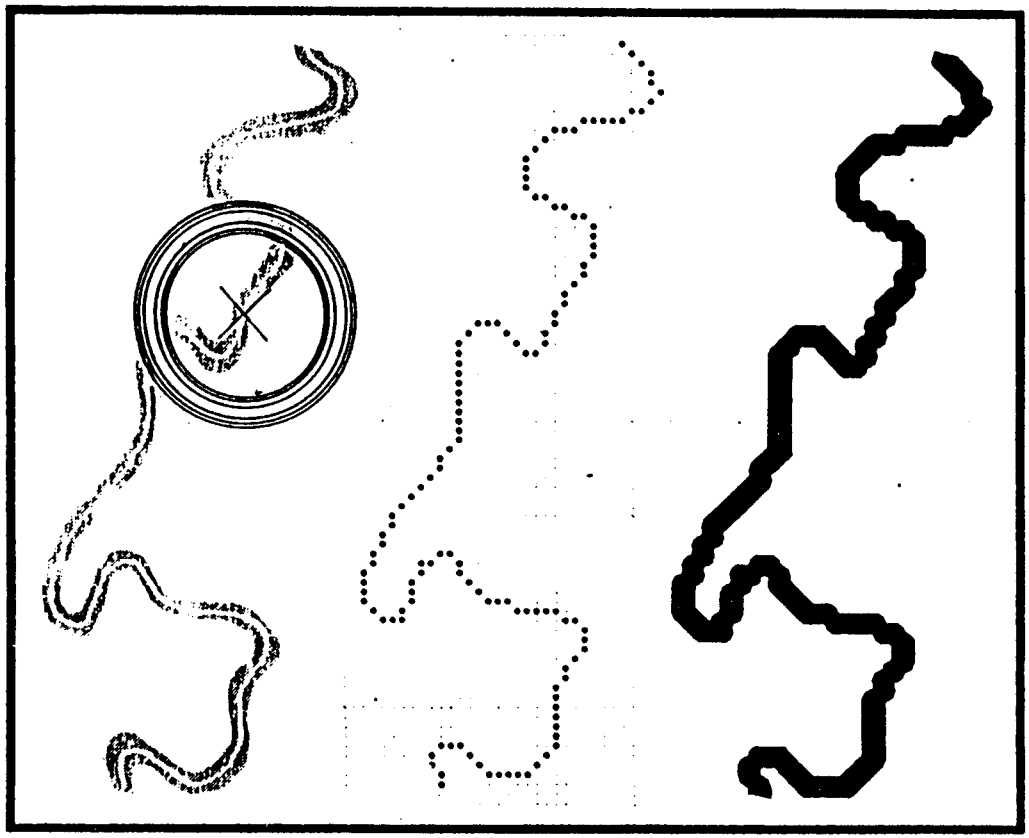

FIG. 2. A simulation of stream mode digitization. The operator positions the cursor on the center of the manuscript line, here emphasized in white, and as the cursor is moved along a sample of points is taken. Coordinate pairs are recorded electronically at intersections of the resolution grid of the digitizing tablet. Later these coordinates are connected by straight line vectors to create a digital representation of the analog source.

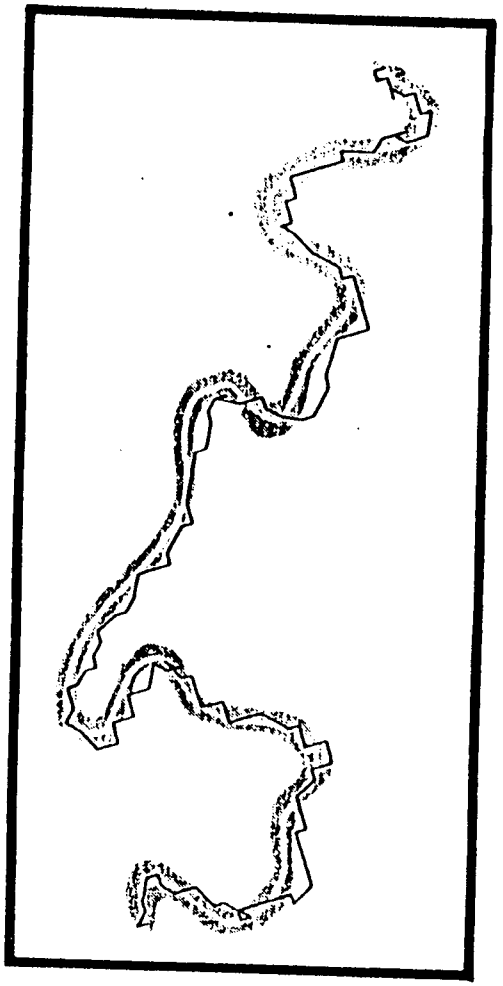

FIG. 3. The black vector plot was created from a data file created by the author. This black plot should lie on or very close to the white center of the experimental line but line-following and tremor errors cause the misfit.