

CHAPTER IV ANALYSIS

INTRODUCTION

The statistical methodology for analysis of the collected data can now be discussed. The results of the correlation of the two test maps, the best-fit qualities, and the calculation of error are presented for analysis.

Representations of the digitized maps at digitizing scale are enclosed separately with this thesis. These larger scale maps are useful in the quantitative study and demonstrates the similarity of the maps as described in previous chapters of this study.

The result of the correlation of the Augustine Herrman's map to a contemporary nautical chart is shown graphically in Figure 13. Overall fit can be characterized as poor, but a definite relationship exists in latitudinal location of features. Considering the date of the Herrman map (surveyed over a 10 year period and completed in 1670), this could be anticipated. Surveying methods and instruments used at that time allows for the assumptions of inaccuracies and distortions of the surveyed results depicted in the map. Among these

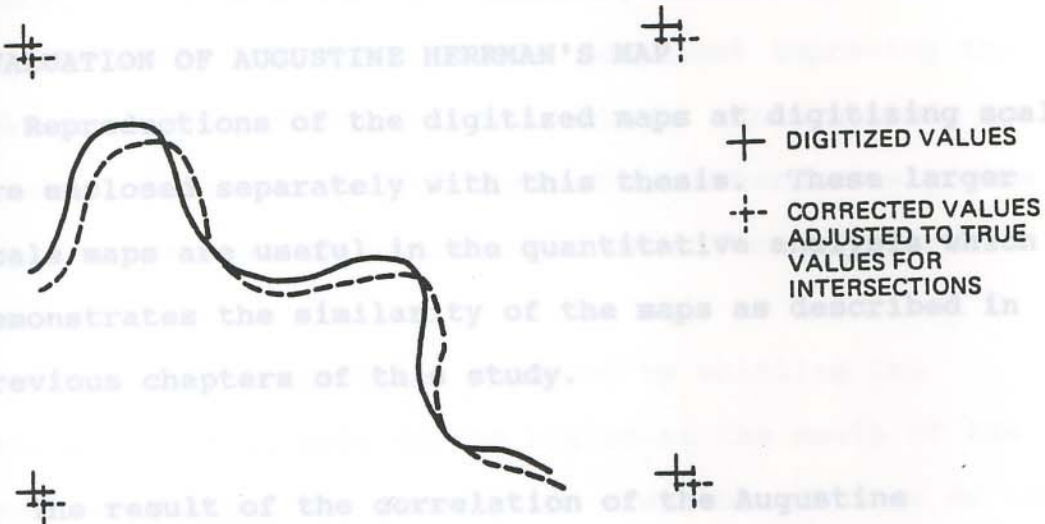


Figure 12. Affine Program Concept Computer Transformation