

for the Herrman map was made by evaluating the latitude scale as it appears on the bottom of the map. The Augustine Herrman's west oriented map does not contain a complete printed geographical projection used as graticule. Instead, one degree marks of latitude, subdivided by five minute increments are printed on the bottom of the map. The lines of latitude were extended across the map perpendicular to the printed latitude scale which has a north-south orientation as established by the map's compass rose. Thereby, providing a partial geographic framework to establish the scale of the Herrman's map as roughly one inch equals six nautical miles, as represented by the relative fraction ratio of 1:372,250. This calculation was determined by one minute of latitude equals one nautical mile (NM). One English nautical mile is 72,960 inches on the surface of the earth. Thus, the measured scale printed on Herrman's map suggests that 1" = 6.12 NM. Once a uniform scale had been determined, and sizing of the documents by reduction could be achieved, electronic digitizing could commence using the NOS Intergraph Digitizing facility. This effort to capture the Herrman map and NOS nautical chart shoreline provided a graphic output (Figures 4 and 5). This data