

lines rather than curvilinear and converging. The angle  
SUMMARY OF THE RESULTS from a true contemporary projection  
Calculations were made showing percent error between  
selected control points of the Herrman map and the same  
points on contemporary NOS nautical charts (see page 91 in  
the appendix). The control points were selected based on  
stable natural landforms, as analyzed by shoreline  
movement studies, and settlement locations. The  
distortions calculated yielded an overall average error of  
over five percent. This is an average error showing  
distortion or poor topographic surveying results evident  
in maps of the time period. Most other maps of this  
period have a range of overall average error of 5% to 11%.  
The Herrman map can now be described in terms of its  
accuracy relative to other historical maps providing  
numerical results.

There is a smaller amount of deviation with the  
The amount of map distortion in the Herrman map is  
shown graphically by Figure 17. The latitude and  
longitude grid lines of a Mercator projection are straight  
and parallel and intersect at 90°. However, the latitude  
and longitude grid lines illustrated on the Herrman map in  
Figure 17 indicate the distortion as compared to the  
contemporary graticule of the same area. The image area  
of the map displays the shoreline as distorted since the  
grid lines in this projection should be parallel straight