

DU-ORIGINAL PROCESS

U.S. Hydrographic Office, Washington, 1946

The idea for this experiment was originated by Mr. Guillermo Medina, Head Engineer of the Hydrographic Office, United States Navy, with the view in mind of eliminating the necessity of preparing separate manuscripts of maps and charts on the standard 1:25 000 and 1:50 000 scales utilized by the Army and Navy.

This is achieved by drafting the manuscript in two colors: *black* for those features only required in the 1:50 000 scale, but which also must appear in the 1:25 000 scale and *blue* for the additional contours and planimetric details required for the 1:25 000 scale map or chart.

The composite manuscript is then photographed on Kodalith Ortho Films utilizing a Wratten "G" filter for the 1:25 000 scale which will pick up both the black and blue, but which will eliminate the numerical scale of 1:50 000 appearing in yellow in the lower right hand side of manuscript. A Wratten "C5" (blue) filter is used to produce the 1:50 000 scale negative.

The exposure with open flame arcs is approximately five times normal for the 1:25 000 negative and eight times normal for the 1:50 000 negative. Kodalith developer is used.

Aside from its economical value the process outlined above possesses great potential importance.

