

will be the resultant of the movement of the surface-water and the movement of the watch-buoy through the surface-water. This would be sufficiently simple if we could suppose that the surface-drift has no influence upon the watch-buoy, and that the movements of intermediate water do not affect the current-line; but we are well aware that this can not be the case, and as we have no data for estimating the amount of error arising from these sources, our current determinations can as yet be regarded only as approximations. Results for the 24th of April:

Lat. 32° 18' N.	Long. 65° 38' W.
Surface-current.	N. 60 E., 0·24 of a mile an hour.
Current at 50 fathoms	N. 75 E., 0·46 " "
" 100 "	N. 87 E., 0·36 " "
" 200 "	S. 70 E., 0·22 " "
" 300 "	S. 40 E., 0·08 " "
" 400 "	S. 65 E., 0·11 " "
" 500 "	N. 65 E., 0·06 " "
" 600 "	No current detected.

The results are shown in a diagrammatic form in Fig. 90.

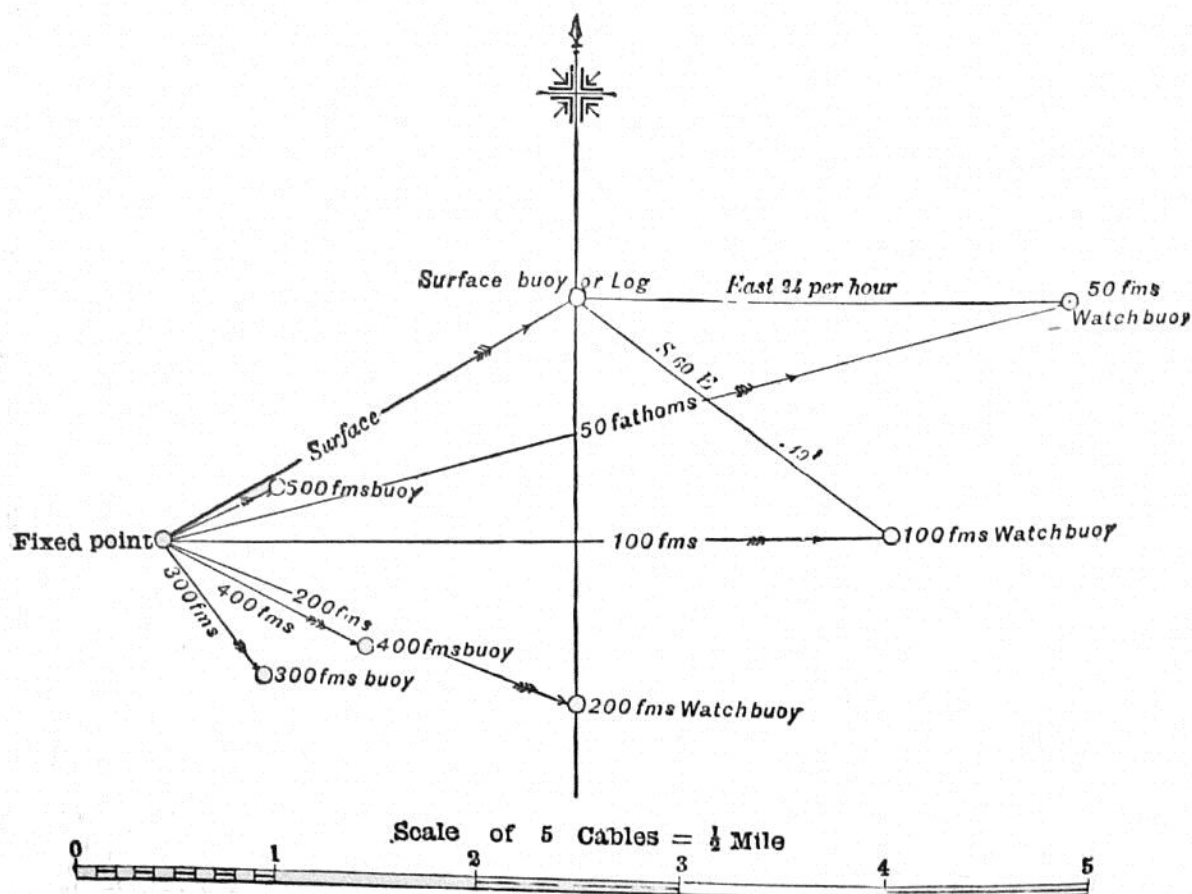


FIG. 90.—Result of Current Observations on April 24th, reduced to Diagrammatic Form.