upper seventy-five meters of water as calculated are furnished in Table 1.

<table>
<thead>
<tr>
<th>Stations</th>
<th>S.W.</th>
<th>S.W.</th>
<th>N.E.</th>
<th>N.E.</th>
<th>N.E.</th>
<th>S.W.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport</td>
<td>103000</td>
<td>371000</td>
<td>25200</td>
<td>13300</td>
<td>53700</td>
<td>59000</td>
</tr>
</tbody>
</table>

Resultant between 58 and 2517 is S.W. 441000

On the basis of the straight line relationship suggested by the T-S diagram, it may be stated that the waters of the February section are the result of the mixture of two water masses "A" and "B," which may be described as follows:

A = water, of a salinity less than 32.50% and of a temperature less than 1.0° C, and

B = water, of a salinity greater than 35.00% and of a temperature greater than 7.0° C.

The calculated resultant volume transport indicates considerable resultant movement through the section to the southwest in the upper seventy-five meters—441,000 cu.m./sec. This transport is concerned with what we have termed the A-water. The volume transport, in the upper seventy-five meters, between stations 58 and 50 is 474,000 cu.m./sec. There is a preponderance of comparatively low temperature and low salinity water between these two stations. The supply of A-water to the area depends, therefore, upon this southwest transport. The transport between stations 126 and 50 represents velocities of as much as 7 or 8 nautical mi./day. Therefore, the supply of A-B water, if produced on the Scotian shelf, is dependent upon movement, and is comparatively independent of "winter chilling in situ." This A-B water possesses the temperature and salinity characteristics of what constitutes the "cold water layer" of the Scotian shelf. It can, therefore, be readily appreciated that the most important feature of the waters of the Scotian shelf—namely, the "cold water layer"—is dependent upon "water movements from the east." This thesis will be more fully developed in a publication to follow.

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