

NORTHEAST TRAWL ADVISORY PANEL::: TOPICS FOR CONSIDERATION!

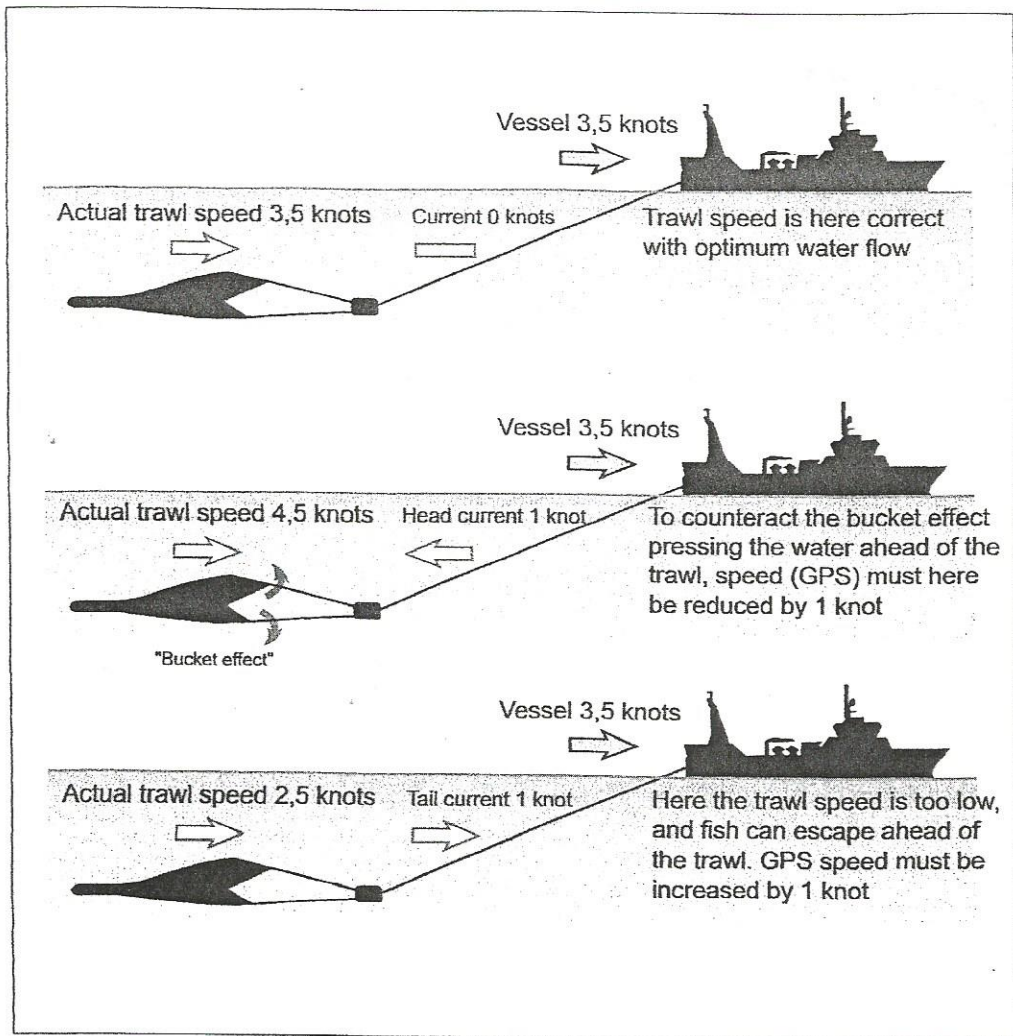
1. Area covered by survey is it 1/200,000 of 1 % or less?
2. Number of areas excluded from survey by hang up torn up gear in previous surveys.
3. condition of trawl doors and how trawl doors brackets are aligned, {basic alignment of settings in shallow water & deep water.
- 4 KNOT ORIENTATION IN ALL NETS USED; TOTAL NUMBER OF NETS USED BY { nescts}: NUMBER OF NETS USED DURING SURVEY & ORIENTATION OF KNOTS IN EACH NET. [Internet Knot orientation what is it you tube Georgia sea grant } brings Knot orientation as major concern for trawl survey the "water Bucket effect for preventing small fish from entering trawl]. [ knot orientation will also affect height of top line on net.] Knot orientation of liner potential problem:

SPEED OF TRAWL THROUGH WATER IS MAJOR ISSUE. {see scanmar illustration}

Speed of water current VS constant speed of survey vessel changes catch ratio. This needs discussion as to net & door spread & water bucket effect.

Type of netting poly or other also has knot orientation implications:

Thank you for discussing these issues  
James Fletcher  
10/14/2015



An underwater current which is not 100% in or against the direction of travel, will, in combination with the motion of the ship, lead to the current meeting the trawl at a side angle. Unless this is corrected with differing warp lengths, the trawl will not lie symmetrical to the water flow. This will in turn lead to the meshes being closed on one side and wide open on the other, allowing current and fish to pass through the side panel.

Scanmar's Trawl Speed/Symmetry Sensor also shows the side current. A skewed trawl is very ineffective, as more and more people are realising. Corrections for side-current are made with the winches, and modern autotrawl systems can do this automatically, based on information from Scanmar's symmetry measurements.

Another effect caused by side-currents is that one door presents a greater area to the water flow than the other, and the door angles change in different ways. This leads to the doors taking up different vertical positions. Rigging the doors differently is usual when fishing in the same area with known currents.

When fishing in areas where two different currents are present at the same time, it may often be worth fishing with or against the current in respect of one current, and making adjustments for the other.