Vessel Swing Radius, Scope = 1.5

The extremes were then used to find anchor line length and swing radius by the following formulas:

**Anchor line length (L) = SCOPE x DEPTH**

Where SCOPE is the scope between a scope buoy and an anchor buoy for every foot of water depth, and DEPTH is the depth of water.

**Swing Radius, R = √ (L² - (ELT)²)**

Where ELT is the extreme low tide.

These results are described in the document "How to Make Your Boat On State-Owned Aquatic Lands" which can be found at [DNR link].

**Nautical Chart Symbols**

- **Yellow Circle**: Precise (within 20 feet) mooring buoy anchor
- **Black Circle**: Located within 20 feet of the buoy
- **Red Circle**: Located further than 20 feet from the buoy
- **Yellow Square**: Precise (within 20 feet) mooring buoy
- **Black Square**: Located within 20 feet of the buoy
- **Red Square**: Located further than 20 feet from the buoy

Note: These symbols are not precise; they are approximate within 20 feet of the buoy.