

Appendix B

Notation

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| A | Coefficient in Equation 15 |
| A', B' | Coefficients in Equation 25 |
| A'' | Coefficient in Equation 16 |
| $a, b, \& c$ | Coefficients in Equation 23 |
| B | Vessel beam width at its maximum point |
| C | Wave celerity |
| D | Vessel draft |
| E | Energy in a wave per unit crest width and wave length |
| d | Water depth below the still water level |
| d^* | Dimensionless water depth |
| F | Froude number |
| g | Acceleration of gravity |
| H_b | Wave height generated at a vessel's bow |
| H_m | Maximum wave height in a vessel wave record |
| H_m^* | Dimensionless maximum wave height |
| K | Coefficient in Equation 17 |
| K_w | Coefficient in Equation 10 and given by Figure 5 |
| L | Vessel-generated wave length |

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| L_e | Hull entrance length (i.e., the distance along the sailing line from the bow stem to the point where the parallel middle body begins) |
| L_v | Vessel length |
| N | Cusp number measured out from the sailing line |
| n | Coefficient in Equation 19 |
| S | Distance from vessel side to point of interest |
| S_c | Channel section coefficient (i.e., channel cross-section area divided by the wetted cross-section area of the vessel at midship) |
| T | Vessel-generated wave period |
| V | Vessel speed |
| W | Vessel displacement |
| w | Channel cross-section width at the water surface |
| x | Distance from vessel sailing line to point of interest measured perpendicular to the sailing line |
| x^* | Dimensionless distance from vessel sailing line to point of interest |
| α | Angle between sailing line and wave crest axis for leading wave when $F > 1$; coefficient in Equation 19 |
| β | Coefficient in Equation 20 |
| γ | Specific weight of water |
| δ | Exponential in Equation 20 |
| θ | Angle between sailing line and wave propagation direction |