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Mariner's Risk-Assessment Index, Where Risk = Probability X Severity

Values: Anticipated Event Probability X Potential Event Severity

Event Probability

1 = Unlikely
 2 = Occasional
 3 = Likely
 4 = Probable

Event Severity

1 = Not harmful
 2 = Harmful
 3 = Very harmful
 4 = Catastrophic

In the matrix below, the higher the index value, the greater the risk

Potential Severity Of Event X ◀ Anticipated Probability of Event ▶

▼	1 = Unlikely	2 = Occasional	3 = Likely	4 = Probable
1 = Not harmful	1	2	3	4
2 = Harmful (some damage, minor injuries)	2	4	6	8
3 = Very harmful (heavy damage, serious injuries)	3	6	9	12
4 = Catastrophic (possible loss of life or vessel, or life-threatening injuries)	4	8	12	16

Note: The higher the index value, the greater the risk. This matrix was compiled by Captain Eric Knott, Captain Henry Marx, and Captain Bernie Weiss.