



**Attachment 1: Risk Calculation Worksheet Using the GAR Model**

( **GREEN** – **AMBER** – **RED** )

OPERATION: \_\_\_\_\_ VOYAGE: \_\_\_\_\_

**GAR REQUIRES TEAM DISCUSSION TO EVALUATE RISKS ATTENDANT TO AN ACTIVITY.**

Operational Risk Assessments are to be continuous and systematic in order for assessment and responses to be complete, effective, and documented. Communication must be maintained throughout the mission, both internal with crew and external with embarked personnel and other involved entities. Flexibility and responsiveness to SIKULIAQ's dynamic operating environment and its dangers are necessary to ensure prompt and effective responses to signals provided by crew awareness.

Score each element according to currently available information. Risk code of 0 (For No Risk), 1 (For Trivial Risk), 2 (For Tolerable Risk), 3 (For Moderate Risk), 4 (For Substantial Risk), and 5 (For Maximum Risk) to each of the five elements. Absence of data automatically sets the score to maximum point value of 5.

<b>VESSEL:</b> Stability – Maneuvering – DP – Navigation – Engineering				
<b>ENVIRONMENTAL:</b> Seas – Visibility – Wind – Current – Temperature – Ice				
<b>EQUIPMENT:</b> Support and Mission Equipment				
<b>PERSONNEL:</b> Qualifications – Experience – Supervision – Communications				
<b>PREPARATION:</b> Event Complexity – Details – Tasks				
<b>TOTAL RISK SCORE:</b>	Date	Time	Initial	

<b>VESSEL:</b> Stability – Maneuvering – DP – Navigation – Engineering				
<b>ENVIRONMENTAL:</b> Seas – Visibility – Wind – Current – Temperature – Ice				
<b>EQUIPMENT:</b> Support and Mission Equipment				
<b>PERSONNEL:</b> Qualifications – Experience – Supervision – Communications				
<b>PREPARATION:</b> Event Complexity – Details – Tasks				
<b>TOTAL RISK SCORE:</b>	Date	Time	Initial	

<b>VESSEL:</b> Stability – Maneuvering – DP – Navigation – Engineering				
<b>ENVIRONMENTAL:</b> Seas – Visibility – Wind – Current – Temperature – Ice				
<b>EQUIPMENT:</b> Support and Mission Equipment				
<b>PERSONNEL:</b> Qualifications – Experience – Supervision – Communications				
<b>PREPARATION:</b> Event Complexity – Details – Tasks				
<b>TOTAL RISK SCORE:</b>	Date	Time	Initial	

<b>GREEN (LOW RISK)</b>	<b>AMBER (CAUTION)</b>	<b>RED (HIGH RISK)</b>
0                      9	10                      16	17                      25

**GAR Evaluation Scale:** If the total risk value falls in the GREEN ZONE (1-9), risk is rated as low. If the total risk value falls in the AMBER ZONE (10-16), risk is moderate and you should consider adopting procedures to minimize the risk. If the total value falls in the RED ZONE (17-25), implement measures to reduce the risk prior to starting the event or evolution.