



Antarctic Research Vessel (ARV)

Seakeeping Performance Report

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Preliminary Design, @IDR5

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1. Executive Summary

This Seakeeping Performance Report provides a summary of the seakeeping studies undertaken for the National Science Foundation (NSF) Antarctic Research Vessel (ARV). This report describes the processes, methods, and parameters that are used to accomplish the analysis. The analysis includes an assessment of ship motions at a range of speeds and sea states in accordance with the ARV Performance Specification (P-Spec), Reference (1). The seakeeping analyses were performed repeatedly throughout the design process to stay current with the latest hull lines, Reference (2), and the ARV Design Weight Estimate, Reference (3). The report also includes an evaluation of Motion Sickness Incidence (MSI), Motion Induced Interruptions (MII), and wetness-on-deck occurrences for the foremost and aftmost locations of interest on the hull form. The hull form analyzed in this study includes appendages such as a skeg, box keel, and ice knife. All conditions analyzed herein include the use of the U-tube anti-roll tank in accordance with Reference (1).

The analysis was performed using VisualSMP (SMP), a frequency-domain, linear strip theory seakeeping tool developed by the U.S. Navy. The ARV P-Spec, Reference (1) requires 100% operability in Sea State 4, 80% operability in Sea State 5, and 50% operability in Sea State 6. Additionally, the ARV P-Spec guided the operation-specific operability criteria for all key hull locations, which were analyzed in upper Sea State 5. For Sea States 7 and 8, the ARV is required to allow personnel to work safely, where work is defined as the safe operation of the vessel for crew only.

The seakeeping analysis for the Full Load, Deliver condition demonstrates the ARV meets the requirements outlined in Reference (1) in all sea states analyzed. The operability is 100% for Sea States 4 and 5, and 64% for Sea State 6. Zero speed operability within +/- 45 degrees of best heading was confirmed for Sea States 4 through 6. Sea State 6 showed pitch motions exceeding limits for seas +/- 45 degrees off the bow; best heading is 90 degrees.

Sea State 7 and 8 were analyzed using a proposed System Safety Criteria. The ARV stays within these criteria for all assessed speed/heading combinations in Sea State 7 and 8, which demonstrates that the ARV will be able to maintain safe operation during high sea states.

Reference (1) does not provide a recommended limit for MII and MSI; therefore, these responses were compared against the recommended limits provided in STANAG 4154, Reference (4). At Sea State 4, the ARV meets STANAG 4154 MII and MSI values for 100% of speed heading combinations. At Sea State 5 and 6, the ARV meets STANAG 4154 MII for 100% of speed heading combinations, while the best operating speed for MSI is observed at 2 knots for both sea states. With a broad range of speed and heading combinations displaying acceptable MSI responses, the ARV is considered to provide adequate operability across the design sea state range.

ARV Seakeeping characteristics will be confirmed experimentally via model testing during the Stage 4 model test program. During the Final Design phase, survivability seakeeping performance will be confirmed using higher-order computational tools or additional model testing to confirm that no capsize events are predicted within a range of safe operable speed and heading combinations for ARV in Sea States 7 and 8.

1.1 Acronyms

ABL	Above Baseline
ART	Anti-Roll Tank
ARV	Antarctic Research Vessel
ASC	Antarctic Support Contractor
CL	Centerline
CTD	Conductivity, Temperature, and Depth
FP	Forward Perpendicular
FSC	Free Surface Correction
FWD	Forward
GM	Distance from Center of Gravity to Metacenter
KG	Vertical Center of Gravity Above the Keel
LBP	Length Between Particulars
LCG	Longitudinal Center of Gravity
LFE	Lateral Force Estimator
LOA	Length Overall
MSI	Motion Sickness Incidence
MII	Motion Induced Interruptions
OCL	Off Center Line
PDR	Preliminary Design Review
NSF	National Science Foundation
P-Spec	Performance Specification
ROV	Remotely Operated Vehicle
SMP	Ship Motion Program
SS	Sea State
STANAG	NATO Standardized Agreement
STBD	Starboard
T	Draft
UAV	Uncrewed Aerial Vehicle
VCG	Vertical Center of Gravity

Preliminary Design, @IDR5

2. Introduction

This report provides a discussion and summary of the results of the seakeeping and ship response study undertaken for the ARV design. Low speed responses up to 11 knots are predicted using VisualSMP, a frequency-domain, linear strip theory tool.

The output from VisualSMP is used to assess the predicted ship response against allowable ship motions as specified in the ARV P-Spec, Reference (1).

2.1 Background Information

Below is a listing of the terminology and definitions that are used in the seakeeping analysis.

2.1.1 Environmental Information

Average Period – \bar{T} , mean value of many measurements of the wave period in a seaway.

Average Wave Height – \bar{H}_a , mean value of many measurements of the wave height in a seaway.

Average Wave Length – $\bar{\lambda}$, mean value of many measurements of wave length in a seaway.

Irregular Waves – Confused sea state composed of multiple waves.

Long Crested Waves – Waves in which component waves advance in the same direction, possessing certain steady-state characteristics that may be described analytically.

Modal Wave Period, also Period of Maximum Energy of Spectrum – T_0 , period of the waves associated with the maximum spectral energy of a seaway.

Period – T_w , time between the passage of two successive wave crests past a fixed point.

Regular Waves – Ideal two-dimensional, periodic waves of a single wave length and frequency.

RMS, also Root Mean Square – σ , standard deviation relative to the mean, or (with respect to wave height), where N is the number of observations of a wave height. Defined by the following equation:

$$\sigma = \sqrt{\frac{\sum_{n=1}^N (H_n - H_a)^2}{N}}$$

Short Crested Waves – Waves in which component waves advance in various directions.

Significant Wave Height – $\bar{H}_{1/3}$, mean height of the highest one-third waves in a seaway.

Wave Amplitude – ζ_a , vertical distance from mean level to wave crest or trough (see Figure 2-1).

Wave Frequency – ω_w or ω , inverse of the wave period, or $1/T$.

Wave Height – H_a , vertical distance from wave crest to bottom of the succeeding trough, or twice the wave amplitude (see Figure 2-1).

Wave Length – λ , horizontal distance between adjacent wave crests in the direction of advance.

Wave Spectrum – $S(\omega_w)$ or $S(\omega)$, distribution of spectral density of wave energy according to wave frequency (see Figure 2-2).

Figure 2-1: Typical Wave Record

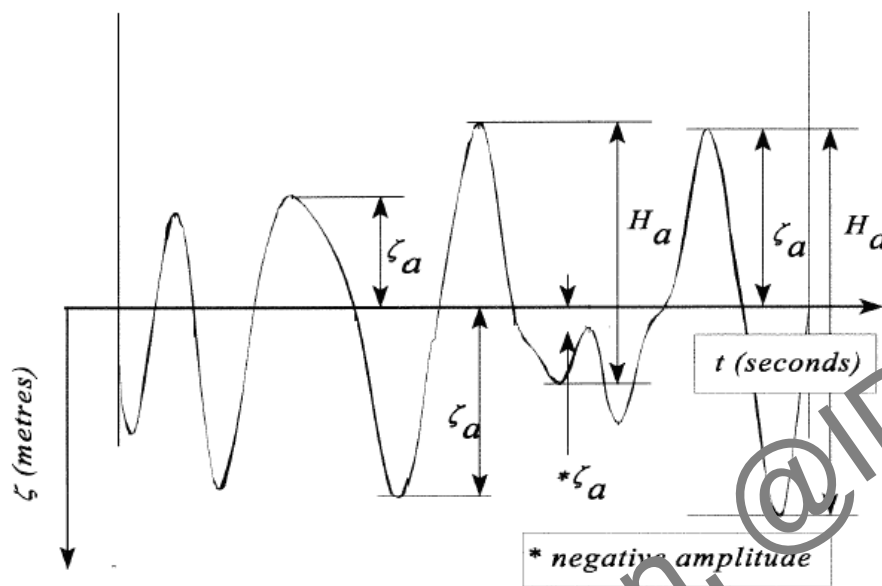
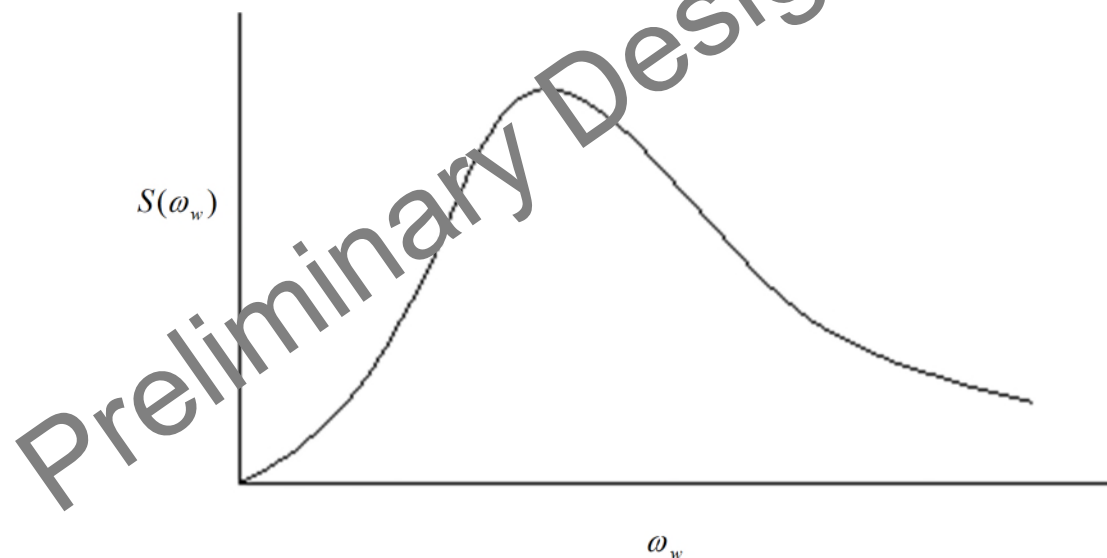


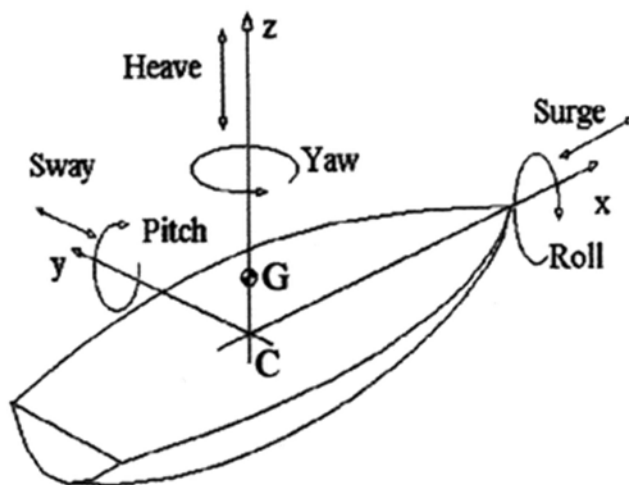
Figure 2-2: Typical Wave Spectrum



2.1.2 Ship Response Definitions

Figure 2-3 shows the definition of the basic ship motions involved in a seakeeping analysis. This figure shows a notional ship floating in water with a 3-dimensional set of axes located at its center of gravity. In terms of the 3-D axes, the ship's motions can be defined in terms of six components (or degrees of freedom), consisting of linear motion along each axis and rotational motion about each axis.

Figure 2-3: Definition of the Basic Ship Motions Involved in a Seakeeping Analysis



Pitch – The angular component of motion, as the ship rotates about its Y-axis. It is also identified as η_5 or X_5 .

Roll – The angular component of motion, as the ship rotates about its X-axis. It is also identified as η_4 or X_4 .

Seakeeping Responses – Collectively, the ship's motions, velocities, and accelerations in these 6 degrees of freedom are often referred to as its seakeeping responses in waves.

2.1.3 Review of Sea State Definition

The ARV P-Spec, Reference (1), requires the analysis to use the Bretschneider short-crested ocean wave spectrum at various sea states. The sea states referenced in the analysis are defined in Table 1 below:

Table 1: Sea State Definition

Sea State Number	Significant Wave Height Range (ft)	Average Modal Wave Period (sec)
≤4	0 – 8.2	8.5 (SS4)
5	8.2 – 13.1	9.4
6	13.1 – 19.7	10.4
7	19.7 – 29.5	11.2
8	29.5 – 45.9	12.2

2.1.4 MSI & MII Analysis

Analyses of the personnel performance was conducted to determine the operational envelope that can be expected of a vessel in a seaway. This analysis used the MSI and MII criteria defined by STANAG 4154, Reference (4). MSI calculates the percentage of crew members experiencing motion sickness to the point of vomiting during a specified period of time. MII calculates the number of instances per minute in which a crewmember may either tip or slide.

2.1.4.1 MSI Calculation

The MSI is defined in STANAG 4145, Reference (4), as the percentage of crewmembers at a given task location that experience motion sickness to the point of vomiting within a given time period.

The MSI takes into consideration the magnitude of the vertical acceleration of the ship and the frequency with which the motion occurs.

MSI is defined by the following set of equations from Reference (6):

$$MSI = 100 * \left(0.5 + \operatorname{erf} \left(\frac{\log_{10} \left(\frac{|\bar{s}_3|}{g} \right) - \mu_{MSI}}{0.4} \right) \right)$$

$$\mu_{MSI} = -0.819 + 2.32 * (\log_{10} W_e)^2$$

$$W_e = a_v * g / V_v$$

Where $|\bar{s}_3|$ is defined as the average modulus of the vertical acceleration. Variable a_v is the vertical acceleration in “g”, V_v is the vertical velocity, and g is the acceleration due to gravity. These formulae assume that the accelerations are distributed over a Gaussian probability. Since the distribution of the sea state used in the simulation follows a Gaussian distribution as well, the accelerations will meet this assumption and is a simple matter to calculate for each case investigated based upon the time history data and frequency-domain data available.

The major assumption that limits the MSI’s accuracy in predicting personnel performance degradation is that it does not take acclimation to the marine environment into consideration when calculating the index. References (4), (7), and (8) show empirical studies that the overall percentage of MSI decreases exponentially within the first three days of a ship leaving port. Thus, the MSI calculation is a conservative estimate, and over the projected mission, the ARV can expect to see a decreasing observed MSI.

2.1.4.2 MII Calculation

Motion Induced Interruptions are considered to occur when a crewmember is subject to forces that result in either sliding or tipping. The basis for determining personnel performance degradation occurs when the number of MII’s per minute exceeds operability criteria for a vessel.

The number of MII’s per minute was calculated by determining the number of instances per minute in which a tip or slide to port or starboard will occur for a given time duration of a task. The generic time duration used for all tasks considered in the calculation is one (1) minute.

The calculation for tipping is given by:

$$MII_T = \frac{2 * T_T}{T_L} * e \left(-\frac{1}{2} * \left(\frac{l}{h} * \frac{g}{L_{RMS}} \right)^2 \right)$$

And the calculation for sliding is given by:

$$MII_S = \frac{2 * T_T}{T_L} * e \left(-\frac{1}{2} * \left(\frac{\mu * g}{L_{RMS}} \right)^2 \right)$$

Where,

T_T = Time duration of task in seconds

T_L = Zero-crossing period of Lateral Force Estimator (LFE) in seconds

l = half-stance of a crewmember

h = VCG of a typical crewmember

μ = coefficient of friction of a dry deck

L_{RMS} = RMS value of the LFE in m/s²

The assumptions made in calculating the tipping and sliding conditions are similar to those used in the original algorithm derivation as defined in Reference (5) and are:

1. Sliding condition calculated for a dry deck with a coefficient of friction value, $\mu=0.7$
2. Tipping condition assumes a typical CG ($h=2.98$ ft) and half-stance of a crewmember ($l=0.75$ ft).

2.1.5 Sea State 7 and 8 System Safety Approach

In Sea States 7 and 8, the ARV is required to allow for safe operation of the vessel. In order to evaluate the safe operation of the vessel, a System Safety Criteria was used, which requires the ship responses to be analyzed in terms of standard deviation. The System Safety Criteria Limits used in this analysis are outlined in Section 3.1.2 for motion limits in pitch, roll, lateral acceleration, and vertical acceleration. The standard deviation equation below was utilized to calculate the total deviation of each response type at each analyzed sea state. For this calculation, the total number of values in the sample was taken as the total number of responses for the combination of speeds and headings analyzed. For Sea State 7 and 8, responses were considered for 0, 2, 4, 6, and 7 knot speeds and wave headings from 0 to 345 degrees in 15-degree increments. This results in a total of 120 values in the sample set. The mean was taken as the average of all of the values within that data set for each response. The sample data for each response includes responses for each speed and wave heading combination, resulting in a total standard deviation for each motion.

$$S = \sqrt{\frac{\sum (X - \bar{x})^2}{n - 1}}$$

S = Sample standard deviation.

X = Each sample value.

\bar{x} = Sample data mean.

n = Total number of values in sample

2.2 ARV Principal Characteristics

The principal characteristics of ARV used in the VisualSMP analysis, are shown in Table 2. The seakeeping analysis was completed for the Full load, Delivery loading condition. The analysis conditions include all design and build weight margins.

The values shown in Table 2, reflect a working version of the ARV Weight Estimate, Reference (3). Minimal changes to the values shown are not expected to affect the overall results of this analysis. As the design progresses, the analysis will be updated to reflect the latest mass properties of the ARV design.

Table 2: ARV VisualSMP Model Principal Characteristics

Particular	Full Load, Delivery
Displacement:	13,046 LT
LOA:	365 ft
LBP:	349 ft
Beam (molded):	80 ft
T (mean):	32.01 ft
VCG:	36.07 ft
LCG:	184.90 ft
GM:	6.26 ft
FSC (Without ART):	2.54 ft
FSC (With ART)	3.27 ft
KG:	39.33 ft

The principal characteristics of the ARV include a U-Tube anti-roll tank. The anti-roll tank dimensions used in the VisualSMP analysis are included in Table 3.

Table 3: Anti-Roll Tank Dimensions

Anti-Roll Tank Dimensions	
Side Tank Length	69.53 ft
Side Tank Width	32 ft
Duct Length	52.83 ft
Duct Width	32 ft
Duct Height	2.5 ft
Tank Height	33.50 ft
Tank Wall Slope	29.9 Degrees
Fluid Depth	8.77 ft
Specific Gravity	1.025
Total Weight	197 LT
Longitudinal Position (+ towards stern)	106 ft
Vertical location of tank bottom from BL	16.50 ft ABL

2.3 VisualSMP Analysis

2.3.1 Basis and Description

The seakeeping analysis for the ARV hull form was performed using VisualSMP Version 3.3, originally developed by the U.S. Navy, and distributed commercially by Proteus Engineering.

SMP is a strip theory, frequency domain seakeeping program that provides predictions of monohull ship motions, including motion displacements, velocities, and accelerations, for a ship advancing at constant speed at arbitrary headings in both regular and irregular waves. Irregular seas can be modeled using the two-parameter Bretschneider spectrum, the three-parameter JONSWAP, or the six-parameter Ochi-Hubble wave spectral models, each with the ability to model both long-crested and short-crested seas. The Bretschneider spectrum and short-crested waves were used for all analyses shown in this report, in accordance with Reference (1), which are reflective of multi-directional waves, and are generally more restrictive for total operability than single directional open ocean long-crested waves.

An SMP model consists of hull offsets, appendage dimensions, and control coefficients (for active ride control system components). The hull offsets are described by points on hull sections and the stem and stern profiles. VisualSMP Version 3.3 allows a maximum of 70 stations with 70 points on each station. The primary appendage applicable to the ARV analysis is the skeg. The dimensions for the skeg are detailed in Table 4, below. Due to the limitations of the VisualSMP, the dimensions and effects of other items that are typically considered appendages, the box keel, and the ice knife, are captured in the hull offsets rather than being programmed as hull appendages.

The ARV vessel design does not include a rudder. Instead, twin podded propulsors are to be installed on the ARV. Currently, the propulsors are not represented in VisualSMP and the seakeeping analysis due to limitations of the VisualSMP program. However, not including the podded propulsors in the analysis results in more conservative predictions, as the roll damping from the lateral surface area which is provided by the pods is not represented in the seakeeping model.

Table 4, below, indicate the ARV Skeg characteristics used in VisualSMP:

Table 4: ARV VisualSMP Skeg Dimensions

Skeg Dimensions	
Fwd End (ft aft of FP)	224.58 ft
Aft End (ft aft of FP)	289.00 ft
Aft End Top (ft aft of FP)	306.23 ft
Waterline at Fwd End	0.00 ft
Waterline at Aft Top Station	24.71 ft

3. Requirements

3.1 Vessel Seakeeping Response Predictions

3.1.1 Operability Criteria

The ARV is required to meet ship responses limits as defined in the ARV P-Spec, Reference (1). The ARV is required to meet the operability criteria shown in Table 5.

Table 5: Required Operability

Sea State	Required Operability	Operability Criteria	On-Station Speed/Headings	Underway Speed / Headings
4	100%	Vertical Accel. < 0.15 g (RMS)	0-2 knots +/- 45 degrees	2-11 knots All Headings
5	80%	Lateral Accel. < 0.05g (RMS) Roll Angle < 3° (RMS)	0-2 knots +/- 45 degrees	2-9 knots All Headings
6	50%	Pitch Angle < 2° (RMS)	0-2 knots +/- 45 degrees	2-7 knots All Headings

For the purposes of this analysis, operability is defined as the percentage of headings and speeds in which all seakeeping criteria are below the imposed motion requirement in each sea state. The percent operability for a given sea state can be calculated by dividing the number of heading and speed combinations exhibiting operability from the total number of speed and heading combinations considered. At the current stage of design, the most probable modal period for each sea state, as presented in Table 1, were analyzed and are presented in this report. Additionally, all wave directions, 0° to 345° in 15° increments, were analyzed, including for the on-station analysis, which covers speeds from 0 to 2 knots. Head seas is defined as 0 degrees.

In accordance with the ARV P-Spec, Reference (1), the ARV is also required to meet the operation-specific operability criteria shown in Table 6. For the purposes of these requirements, the operability of each operation is to be defined based on the maximum motions for each operation when compared to the operability requirements of Table 5. In subsequent revisions of this report, ship speed for each operation will be determined based on input from vendors and operators and from examples of comparable operations on similar ship designs.

Table 6: Sea State 5 Operation-specific Operability

Operation	Required Operability
CTD Operations	90%
Mooring Deployments	75%
Coring	50%
ROV or similar	50%

3.1.2 Key Locations

In accordance with the ARV P-Spec, Reference (1), operability was evaluated at the locations shown in Table 7. VisualSMP uses the X, Y, and Z coordinates of each point to evaluate location-specific motions, with the positive X direction being aft from the forward perpendicular, the positive Y direction being starboard from CL, and the positive Z direction being above baseline.

Table 7: Key Locations

Location #	Location Name	X + AFT (ft aft FP)	Y+ PORT (ft OCL)	Z +UP (ft ABL)
1	Outboard extent of the Transom, A-frame*	356.00	17.00	53.00
2	UAV Deck, Outboard Edge	50.00	33.50	84.50
3	Bridge Wing, forward/outboard extent	138.00	44.00	102.5
4	Forward-most stateroom, forward/outboard extent	36.00	29.23	30.00
5	Starboard side overboard handling system, outboard extent (CTD operations location)	170.00	- 52.00	57.50

*The position of this key location at the sheave at the top of the A-Frame is intentionally overly conservative.

To satisfy the operation-specific operability criteria, additional key locations were considered. Table 8 shows the locations selected for each operation of interest. Two representative locations for coring and mooring were selected as they occur at different points on the ship. It should be noted that CTD operations are located at Key Location #5, as shown in Table 7, and no additional point was entered for analysis in VisualSMP for this operation.

Table 8: Operations Locations

Operation	Location #	X + AFT (ft aft FP)	Y+ PORT (ft OCL)	Z +UP (ft ABL)
CTD Operations	5	170.00	- 52.00	57.50
Coring (FWD and AFT)	6	184.00	- 52.00	50.50
	7	350.00	- 34.78	50.50
ROV or similar	8	290.00	- 52.00	50.50
Mooring Deployments (FWD and AFT)	9 (FWD)	20.00	22.00	66.50
	10 (AFT)	340.00	40.00	50.50
Deck Wetness Checks				
Lab Van	11	298.00	28.05	45.5
UAV Deck	2	50	33.50	84.50
Transom, STBD	12	349.00	-40.00	45.50

3.1.3 Recommended System Safety Criteria

In accordance with Reference (1), the ARV is required to allow personnel to work safely in Sea States 7 and 8, where work is defined as the safe operation of the vessel. This is interpreted as the survival of the vessel and general operability of ship systems, not the ability for scientists to work onboard. In order to provide quantifiable values to the safe operation of the vessel, the ARV was analyzed against a set of industry-standard system safety criteria. In Sea States 7 and 8, the global and location dependent responses are high. Therefore, the proposed limits used are based on the calculated standard deviation of the motions for each response type to ensure that extreme motions that might endanger crew or vessel are not predicted in the headings deemed operable by the analysis. The recommended System Safety Limits for the ARV are shown Table 9 below.

Table 9: Sea State 7 to 8 Seakeeping System Safety Criteria

Motion	Required Limits
Roll	Standard Deviation < 8.5 degrees
Pitch	Standard Deviation < 2.35 degrees
Lateral Acceleration	Standard Deviation < 0.185 g
Vertical Acceleration	Standard Deviation < 0.2 g

3.2 Crew Performance

Crew performance requirements were assessed using the MSI and MII calculations, as defined by Reference (6). Details for this calculation are shown in Section 2.1.4 above. The recommended criteria selected for the MSI and MII evaluation is taken from NATO STANAG 4154, Reference (4). The limit applied for MSI is 20% of crew for four hours of exposure time, and the MII limit is 1 interruption incidence per minute. Note that MSI incidence has been experimentally shown to reduce with time at sea, and the calculation is conservative in omitting any benefit from environmental acclimatization that occurs during a voyage.

4. Results

The ship’s predicted motions, as calculated by VisualSMP, are provided in polar plot form in the following sections. Root Mean Square (RMS) data is given for all required criteria in accordance with the ARV P-Spec, Reference (1). Each Sea State is analyzed at the average modal wave period and at the highest significant wave height as defined in Table 1.

For each plot, the radial coordinate represents the magnitude of the motion, while the polar angle represents the ship’s heading in degrees.

Head seas is represented by 0 degrees. Roll and pitch are measured in degrees; acceleration is measured as fractions of gravity (g). The Bretschneider wave spectrum in short-crested seas was used in accordance with the ARV P-Spec, Reference (1). The results below will be discussed based on global ship, and location dependent responses.

Within this section, only polar plots with motions exceeding requirements are provided in the interest of report clarity and brevity. The full set of motion polar plots is provided as Attachment (1) to this report.

4.1 Summary of Results

Table 10 presents the operability for the ARV in Sea States 4 through 6. For each key location, a speed and heading combination is determined to be “operable” if it meets all required operability limits in Roll, Pitch, Lateral Acceleration, and Vertical Acceleration. Operability is the combination of the combined criteria results for all Key Locations; the ship has an operable speed and heading combination if all key locations demonstrate compliance with the seakeeping operability criteria at that speed and heading combination. The operability of the ARV is then calculated as total number of operable speed and heading combinations divided by the total number of heading and speed combination considered.

Table 10: Operability in Sea States (All Speeds, Headings, and Key Locations)

Sea State	Required Operability	Operability	Meets Requirement (Y/N)
4	100%	100%	Y
5	80%	100%	Y
6	50%	64%	Y

100% operability for full ship motion criteria is achieved in Sea State 4 and 5, exceeding all operability requirements imposed by Reference (1). With 100% operability, motions plots for Sea States 4 and 5 are found in Attachment 1 only, as no limits are exceeded in the polar plots. With a 64% operability at Sea State 6, the ARV also meets the 50% operability requirement for this sea state. Detailed results for Sea State 6 are shown in Section 4.2.3 and 4.3.3 of this report to highlight areas of operating restrictions.

Operation-specific performance for Sea State 5 is shown in Table 11, below. As outlined in Section 3.1.1, operations-specific requirements were not provided in Reference (1). Therefore, the limits detailed in Table 5, were used to analyze the operability at these locations. The ARV is compliant for all speeds analyzed at Sea State 5.

Table 11: Summary of Operation-Specific Performance in Sea State 5

Operation	Required Operability	Actual Operability	Compliant?
CTD Operations	90%	100%	Y
Coring (Forward)	50%	100%	Y
Coring (Aft)	50%	100%	Y
ROV or similar	50%	100%	Y
Mooring Deployments (Forward)	75%	100%	Y
Mooring Deployments (Aft)	75%	100%	Y

Reference (1) does not provide a recommended limit for MII and MSI; therefore, these responses were compared against the recommended limits provided in STANAG 4154, Reference (4). MII and MSI responses were analyzed for Sea States 4, 5, and 6. Additionally, the operability for these responses were analyzed separately from the other seakeeping responses. At Sea State 4, the ARV meets STANAG 4154 MII and MSI values for 100% of speed heading combinations. At Sea State 5 the ARV meets STANAG 4154 MII for 100% of speed heading combinations, while the best operating speed for MSI is observed at 2 knots. At Sea State 6 the ARV meets STANAG 4154 MII for 100% of speed heading combinations, while the best operating speed for MSI is observed at 0 – 2 knots, each speed achieving 71% operability. With a broad range of speed and heading combinations displaying acceptable MSI responses, the ARV is considered to provide adequate operability across the design sea state range.

4.1.1 Sea State 4

Sea State 4 combined criteria operability results are shown below in Table 12 through Table 14 below. The ARV displays 100% operability for all speeds, headings, and locations analyzed.

Table 12: Sea State 4 Combined P-Spec Criteria Operability

Sea State 4		
Speed	Degrees Inoperable	% Operability
0 knots	0	100%
2 knots	0	100%
4 knots	0	100%
6 knots	0	100%
8 knots	0	100%
10 knots	0	100%
11 knots	0	100%

Table 13: Sea State 4 MSI Against STANAG 4154 Limits

MSI Sea State 4		
Speed	Degrees Inoperable	% Within Limits
0 knots	0	100%
2 knots	0	100%
4 knots	0	100%
6 knots	0	100%
8 knots	0	100%
10 knots	0	100%
11 knots	0	100%

Table 14: Sea State 4 MII Against STANAG 4154 Limits

MII Sea State 4		
Speed	Degrees Inoperable	% Within Limits
0 knots	0	100%
2 knots	0	100%
4 knots	0	100%
6 knots	0	100%
8 knots	0	100%
10 knots	0	100%
11 knots	0	100%

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4.1.2 Sea State 5

Sea State 5 combined criteria operability results are shown below in Table 15 through Table 17. The ARV displays 100% operability for all speeds, headings, and locations. The results shown in Table 17 reflect global and location dependent responses for all locations analyzed in Sea State 5. The MII responses for Sea State 5 display 100% of speed heading combinations within STANAG 4154 recommended limits. MSI responses reflect 78% of speed heading combinations within STANAG 4154 recommended limits.

Table 15: Sea State 5 Combined P-Spec Criteria Operability

Sea State 5		
Speed	Degrees Inoperable	% Operability
0 knots	0	100%
2 knots	0	100%
4 knots	0	100%
6 knots	0	100%
8 knots	0	100%
9 knots	0	100%

Table 16: Sea State 5 MSI Against STANAG 4154 Limits

MSI Sea State 5		
Speed	Degrees Inoperable	% Within Limits
0 knots	0	100%
2 knots	0	100%
4 knots	15	96%
6 knots	135	63%
8 knots	165	54%
9 knots	165	54%

Table 17: Sea State 5 MII Against STANAG 4154 Limits

MII Sea State 5		
Speed	Degrees Inoperable	% Within Limits
0 knots	0	100%
2 knots	0	100%
4 knots	0	100%
6 knots	0	100%
8 knots	0	100%
9 knots	0	100%

4.1.3 Sea State 6

Sea State 6 combined criteria operability results are shown below in Table 18 to Table 20. The ARV displays 64% composite operability for combined global and location dependent responses, not including MSI and MII, for all speeds, headings, and locations. Sea State 6 operability is best between 0 and 2 kts. Sea State 6 motions are limited by lateral accelerations between 60 degree and 90 degree wave headings, as well as global pitch motions.

The results in Table 18 reflect global and location dependent responses for all locations analyzed in Sea State 6. Average combined operability for all speeds is 64%. The MII responses for Sea State 6 display 100% of speed heading combinations within STANAG 4154 recommended limits. MSI responses reflect approximately 51% of speed heading combinations within STANAG 4154 recommended limits.

Table 18: Sea State 6 Combined P-Spec Criteria Operability

Sea State 6		
Speed	Degrees Inoperable	% Operability
0 knots	75	79%
2 knots	75	79%
4 knots	165	54%
6 knots	165	51%
7 knots	165	54%

Table 19: Sea State 6 MSI Against STANAG 4154 Limits

MSI Sea State 6		
Speed	Degrees Inoperable	% Within Limits
0 knots	105	71%
2 knots	105	71%
4 knots	225	38%
6 knots	225	38%
7 knots	225	38%

Table 20: Sea State 6 MII Against STANAG 4154 Limits

MII Sea State 6		
Speed	Degrees Inoperable	% Within Limits
0 knots	0	100%
2 knots	0	100%
4 knots	0	100%
6 knots	0	100%
7 knots	0	100%

4.1.4 Sea State 7

Sea State 7 system safety criteria results are shown below in Table 21. The ARV meets all system safety criteria for operations in Sea State 7. The results shown in Table 21 reflect assessment of combined global and location dependent responses for all locations analyzed in Sea State 7. MII and MSI responses were not assessed for Sea State 7. Worst-case system safety results are shown against criteria for each speed in Sea State 7 in Table 21 below.

Table 21: Sea State 7 System Safety Results

Roll Standard Deviation	Pitch Standard Deviation	Lateral Acceleration Standard Deviation	Vertical Acceleration Standard Deviation
Criteria: <8.5 deg	Criteria: <2.35 deg	Criteria: < 0.185 g	Criteria: < 0.2 g
0.408 deg	0.364 deg	0.014 g	0.037 g

4.1.5 Sea State 8

Sea State 8 system safety criteria results are shown below in Table 22. The ARV meets all system safety criteria for operations in Sea State 8. The results shown in Table 22 reflect assessment of combined global and location dependent responses for all locations analyzed in Sea State 8. MII and MSI responses were not assessed for Sea State 8. Worst-case system safety results are shown against criteria for each speed in Sea State 8 in Table 22 below.

Table 22: Sea State 8 System Safety Results

Roll Standard Deviation	Pitch Standard Deviation	Lateral Acceleration Standard Deviation	Vertical Acceleration Standard Deviation
Criteria: <8.5 deg	Criteria: <2.35 deg	Criteria: < 0.185 g	Criteria: < 0.2 g
0.684 deg	0.575 deg	0.021 g	0.053 g

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4.2 Global Response Predictions

Pitch and Roll are global motions because they are not dependent on ship location. The ARV is compliant with pitch and roll limits for all speeds and headings analyzed in Sea State 4 and 5, as shown in Table 12 and Table 15. Sea State 6 is discussed with detail addressing the headings exceeding ARV criteria, and Sea States 7 and 8 are discussed as highest Sea States based on safe operation of the vessel against recommended criteria.

4.2.1 Sea State 4

Sea State 4 seakeeping responses pass all speeds and headings combinations with 100% operability for pitch and roll motions. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 4 are within the acceptable limits and exceed the ARV seakeeping requirements outlined in Reference (1). Full set of motions plots can be found in Attachment 1.

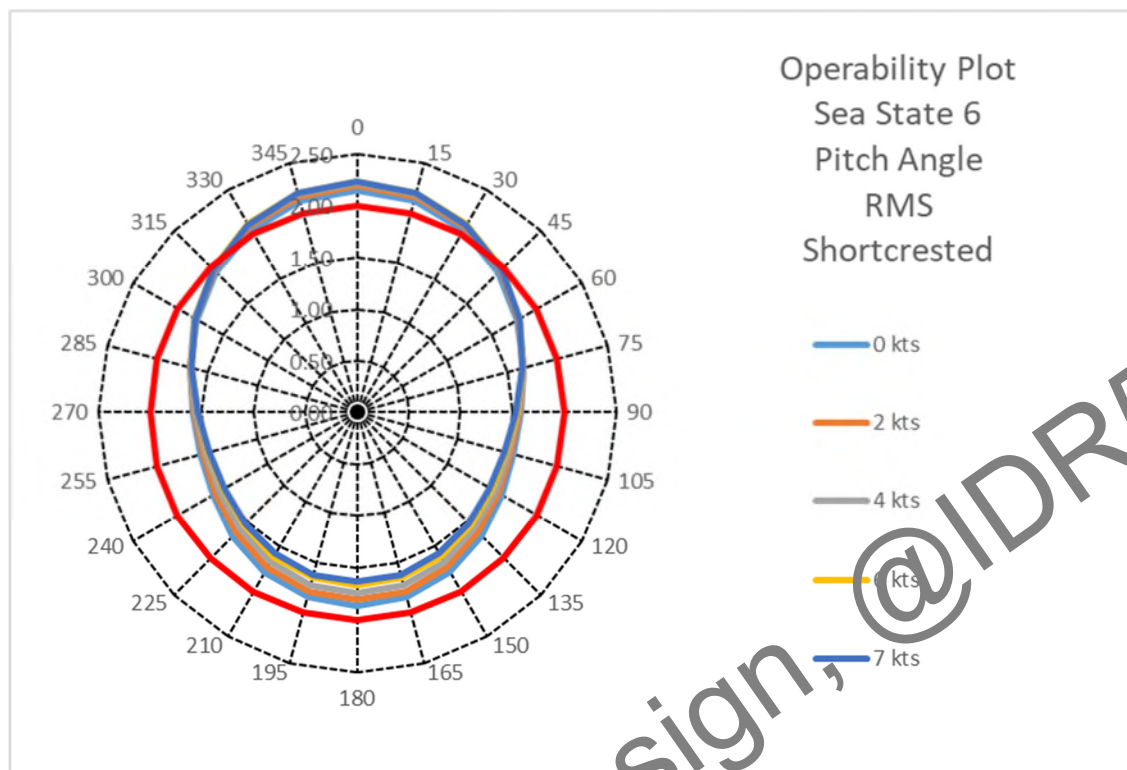
4.2.2 Sea State 5

Sea State 5 seakeeping responses pass all speeds and headings combinations with 100% operability for pitch and roll motions. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 5 are within the acceptable limits and exceed the ARV seakeeping requirements outlined in Reference (1). Full set of motions plots can be found in Attachment 1.

4.2.3 Sea State 6

Sea State 6 global motions remain below the required limits for Roll. Pitch motions exceed limits for some speed and heading combinations as shown in Figure 4-1 below, within head seas +/- 30 degrees. For the On-Station 0.2 knot requirements, Sea State 6 exceeds operability of +/- 45 degrees. The ARV provides operability greater than 50% for global motions at Sea State 6, exceeding the requirements imposed by Reference (1). Full set of motion plots can be found in Attachment 1.

Figure 4-1: Sea State 6 Pitch Global Response Polar Plot



4.2.4 Sea State 7

Sea State 7 seakeeping performance passes all speeds and headings combinations with 100% operability, with less than 2.35 degrees for pitch and less than 8 degrees for roll. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 7 are within the acceptable limits and exceed the ARV seakeeping requirements outlined in Section 3.1.1 of this report. Full set of motions plots can be found in Attachment 1.

4.2.5 Sea State 8

Sea State 8 seakeeping performance passes all speeds and headings combinations with 100% operability, with less than 2.35 degrees for pitch and less than 8 degrees for roll. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 8 are within the acceptable limits and exceed the ARV seakeeping requirements outlined in Section 3.1.1 of this report. Full set of motions plots can be found in Attachment 1.

4.3 Location Dependent Response Predictions

Accelerations are location dependent as they are a motion that is felt as a combination of roll, pitch, heave, yaw, etc. at a specific point. As summarized in Section 3.1.1, the ARV operability limits for lateral and vertical accelerations apply to all key locations. The following sections offer a detailed look at the results of the seakeeping analysis at all key locations and its impact on the ship's overall seakeeping performance and operability.

The results were analyzed for Sea States 4 through 6. For Sea States 4 through 6, Key locations 1 to 5 are assessed for all motion types. Sea State 5 contains increased analysis with additional key locations 6 through 10 for all motion types.

Sea States 7 and 8 are analyzed against the proposed criteria outlined in Section 3.1.3.

4.3.1 Sea State 4

Sea State 4 motions meet all speed and heading combinations with 100% operability for Vertical and Lateral Accelerations. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 4 are within the acceptable limits and exceed the ARV seakeeping requirements outlined in Reference (1). Full set of motions plots can be found in Attachment 1.

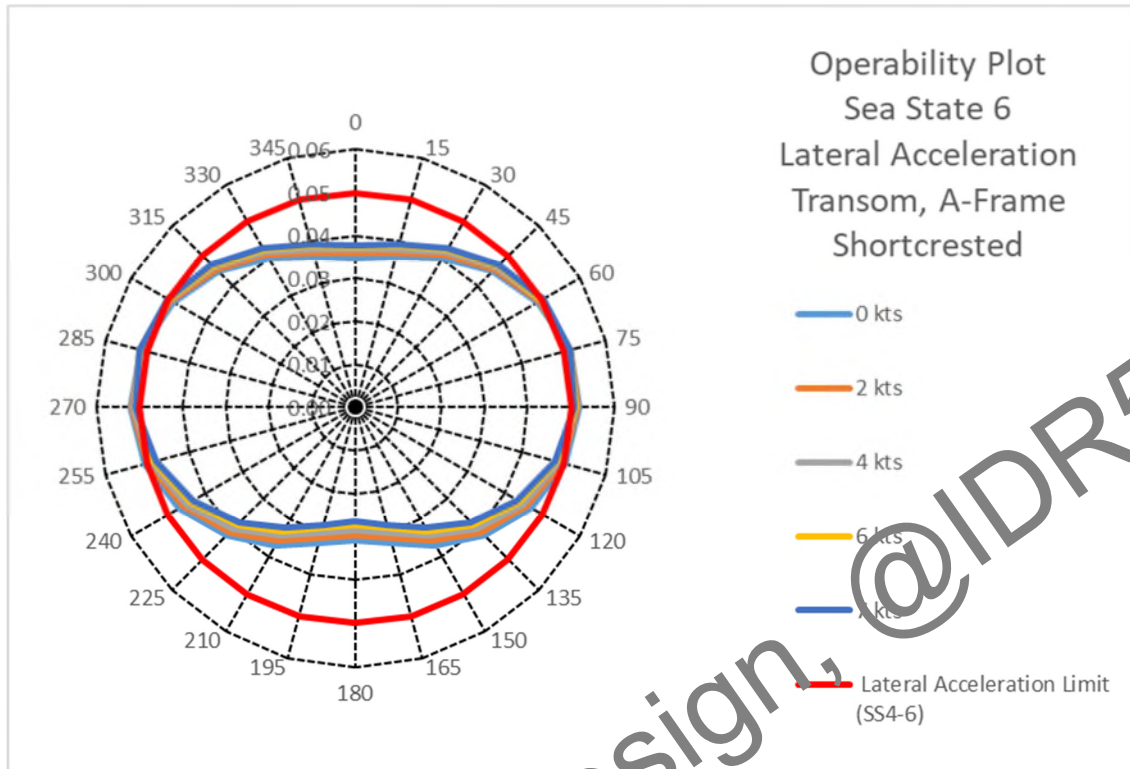
4.3.2 Sea state 5

Sea State 5 motions meet all speed and heading combinations with 100% operability for Vertical and Lateral Accelerations. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 5 are within the acceptable limits and exceed the ARV seakeeping requirements outlined in Reference (1). This includes the additional key locations 6 through 10, as shown in Table 6. Full set of motions plots can be found in Attachment 1.

4.3.3 Sea State 6

Sea State 6 motions remain below the required limits for most speeds, headings, and locations. Lateral accelerations exceed the limits for key locations 1, 2, 3, and 4, within +/- 30 degrees of direct beam seas – bow quartering showing higher acceleration than stern quartering. The composite operability for Sea State 6 is 64%, limited by lateral accelerations which are particularly pronounced at extreme bow and stern locations. The Polar Plots in Figure 4-2 to Figure 4-4 for Sea State 6 display the lateral accelerations for key locations 1, 2, and 4. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. Full set of motions plots can be found in Attachment 1.

Figure 4-2: Sea State 6 Lateral Acceleration Polar Plot for Key Location 1



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Figure 4-3: Sea State 6 Lateral Acceleration Polar Plot for Key Location 2

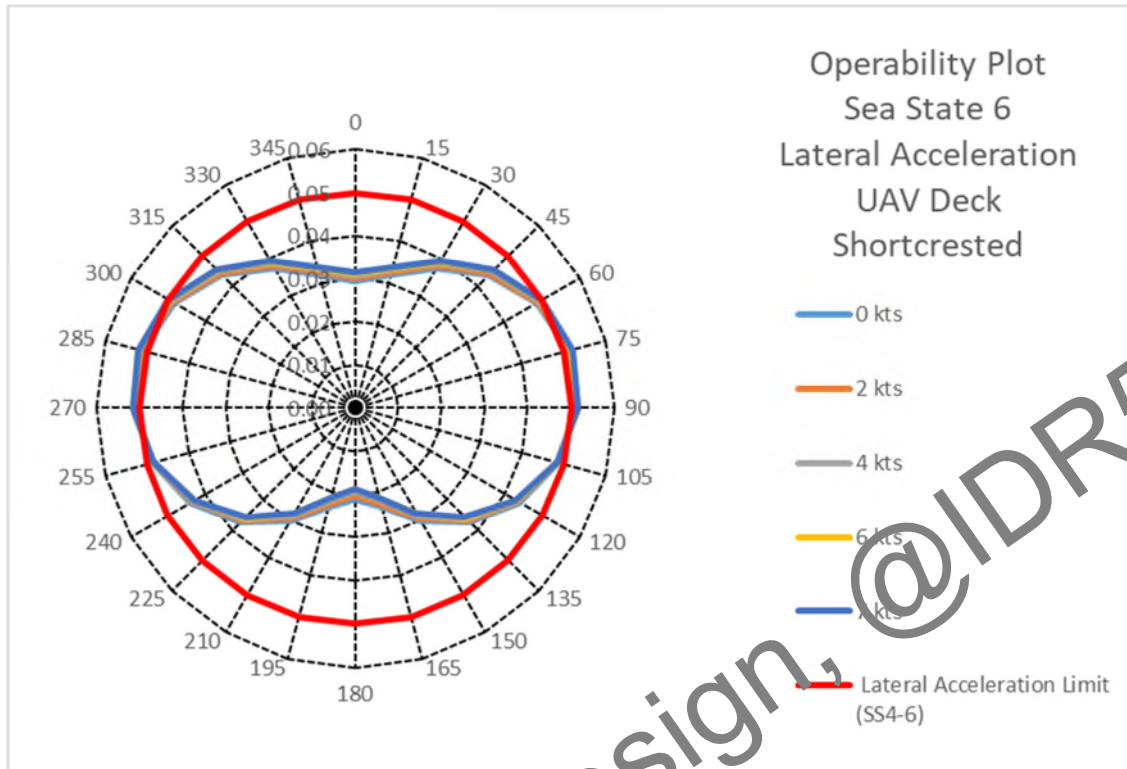
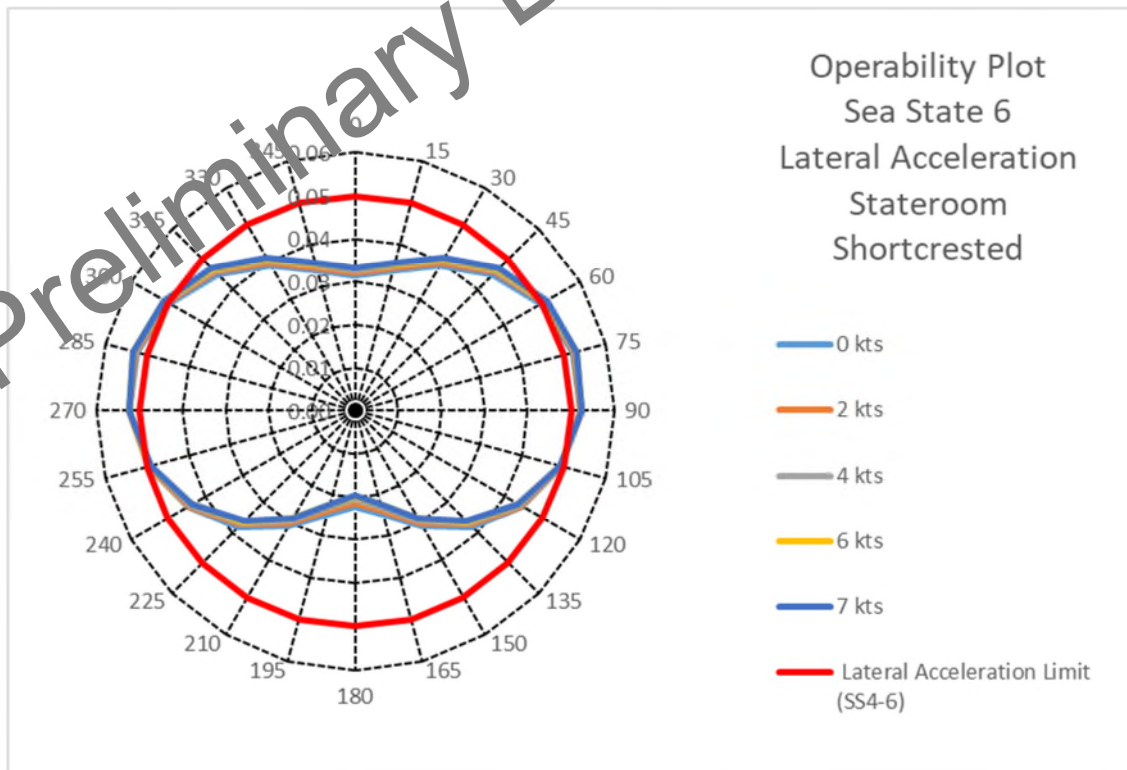


Figure 4-4: Sea State 6 Lateral Acceleration Polar Plot for Key Location 4



4.3.4 Sea State 7

Sea State 7 motions provide safe operation against criteria for at all speeds and headings combinations for vertical and lateral accelerations. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 7 are within the acceptable standard deviation limits and exceed the recommended criteria in Section 3.1.3. Full set of motions plots can be found in Attachment 1. The plots show the SMP calculated results and do not present a criteria limit. The SMP calculated results are presented along with the plots. Under the tables, the standard deviation is shown as calculated from the SMP results.

4.3.5 Sea State 8

Sea State 8 motions provide safe operation against criteria for at all speeds and headings combinations for vertical and lateral accelerations. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 8 are within the acceptable standard deviation limits and exceed the recommended criteria in Section 3.1.3. Full set of motions plots can be found in Attachment 1. The plots show the SMP calculated results and do not present a criteria limit. The SMP calculated results are presented along with the plots. Under the tables, the standard deviation is shown as calculated from the SMP results.

4.4 Additional Operability Metrics

The MSI and MII analyses were performed using the equations described in Section 2.1.4 and References (5), (6), (7), and (8). The raw data for use in the equations was obtained from the results of the VisualSMP analysis. In the absence of MII and MSI operability requirements in Reference (1), the NATO STANAG 4154, Reference (4), recommended limits were used for this analysis.

4.4.1 Sea State 4

Sea State 4 MSI and MII results pass all speeds and headings combinations with 100% below STANAG 4154 recommended criteria for MSI and MII. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. All motions for Sea State 4 are within the acceptable limits and exceed the recommended criteria in Section 3.2. Full set of motions plots can be found in Attachment 1.

4.4.2 Sea State 5

Sea State 5 MII remains below the STANAG 4154 recommended criteria for all speeds, headings, and locations. However, Sea State 5 MSI exceeds recommended criteria for speeds of 6, 8 and 9 knots at key locations 1, 2 and 4. The MII responses for Sea State 5 display 100% of speed heading combinations within STANAG 4154 recommended limits. MSI responses reflect approximately 79% of speed heading combinations within STANAG 4154 recommended limits. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. The MSI results are shown in Polar Plot form within Figure 4-5 to Figure 4-10. Full set of motions plots can be found in Attachment 1.

Figure 4-5: Sea State 5 MSI Polar Plot for Key Location 1

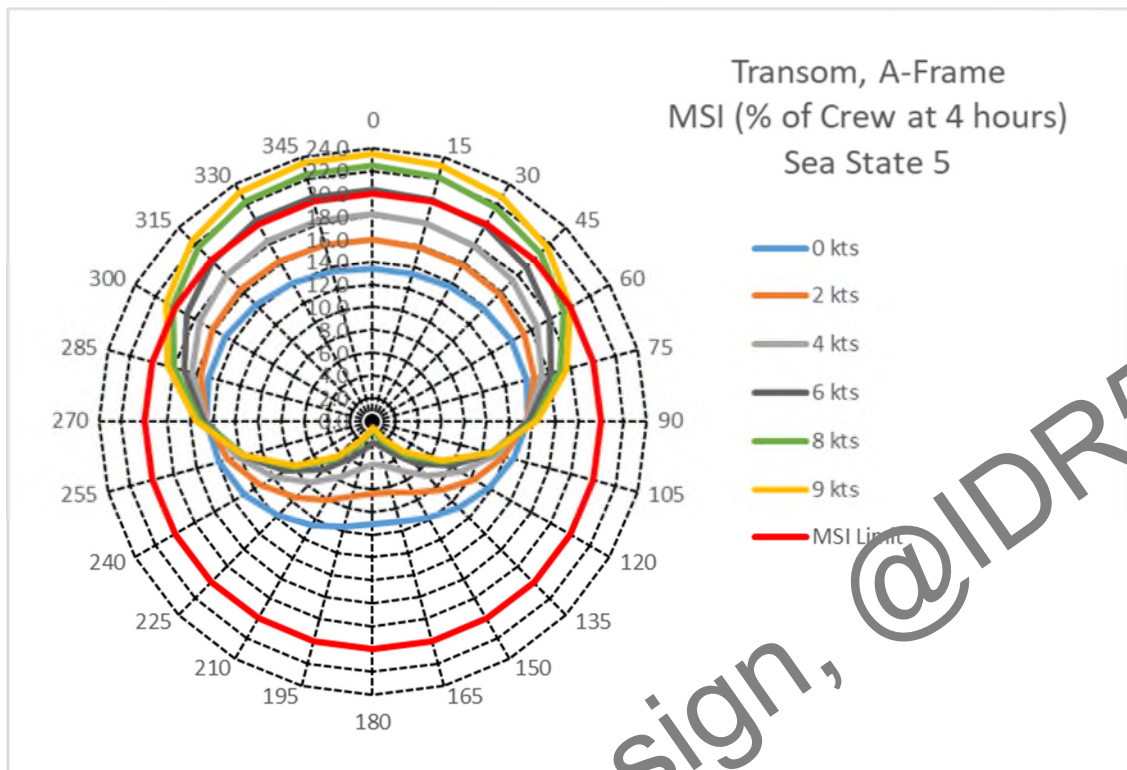


Figure 4-6: Sea State 5 MSI Polar Plot for Key Location 2

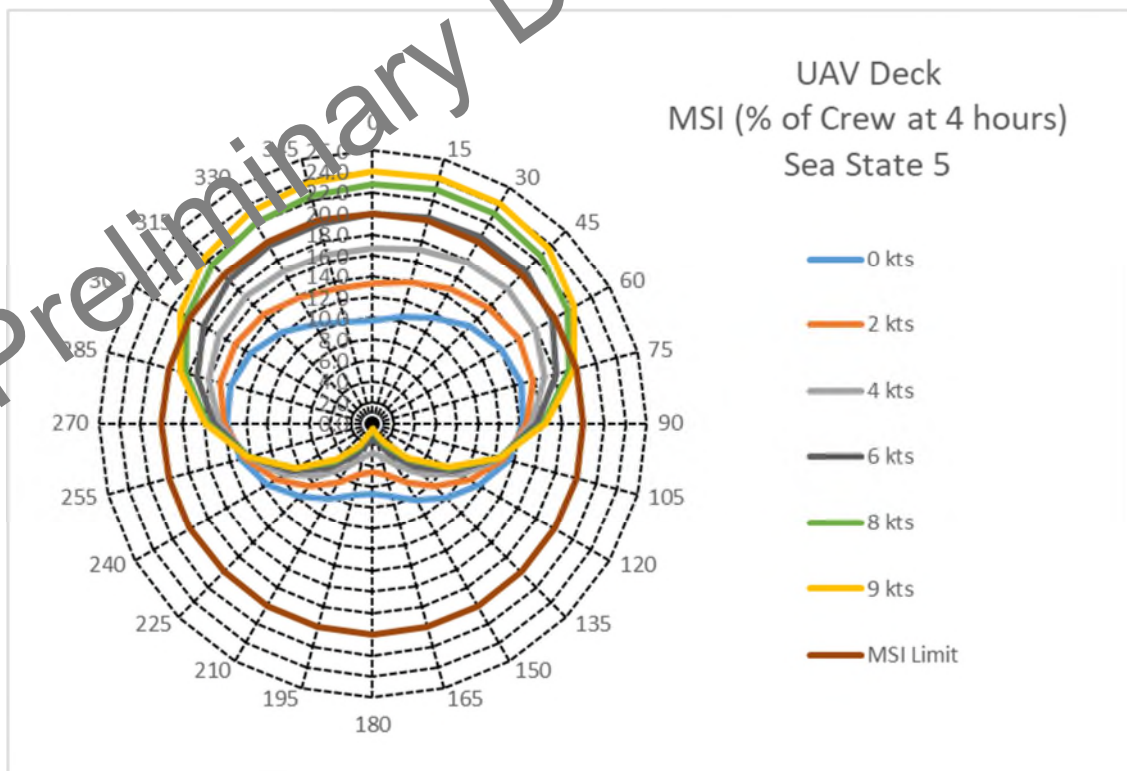


Figure 4-7: Sea State 5 MSI Polar Plot for Key Location 4

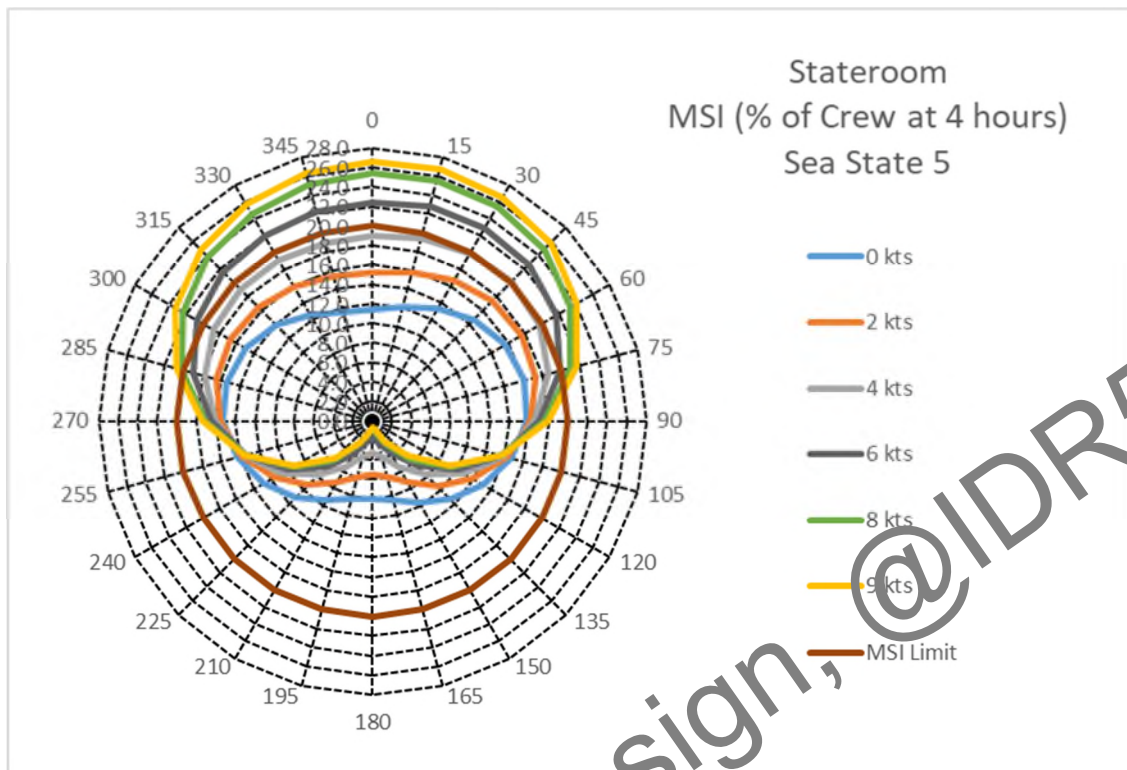


Figure 4-8: Sea State 5 MSI Polar Plot for Coring, Aft

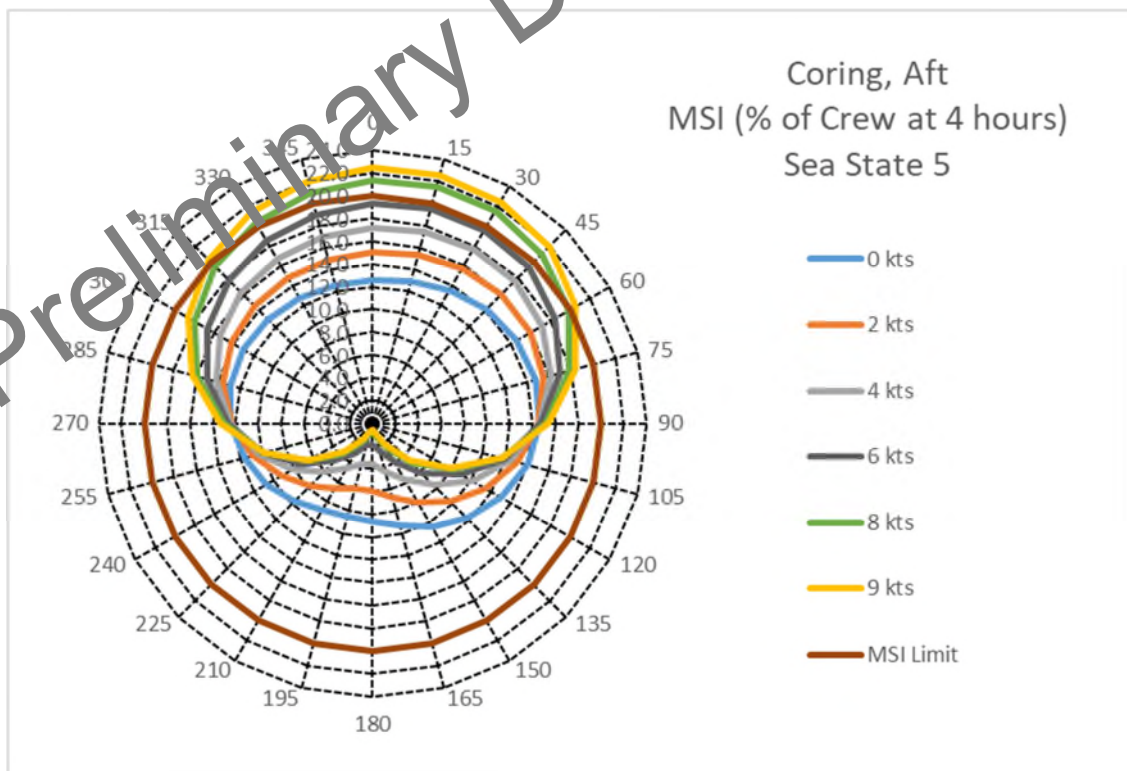


Figure 4-9: Sea State 5 MSI Polar Plot for Mooring, Fwd

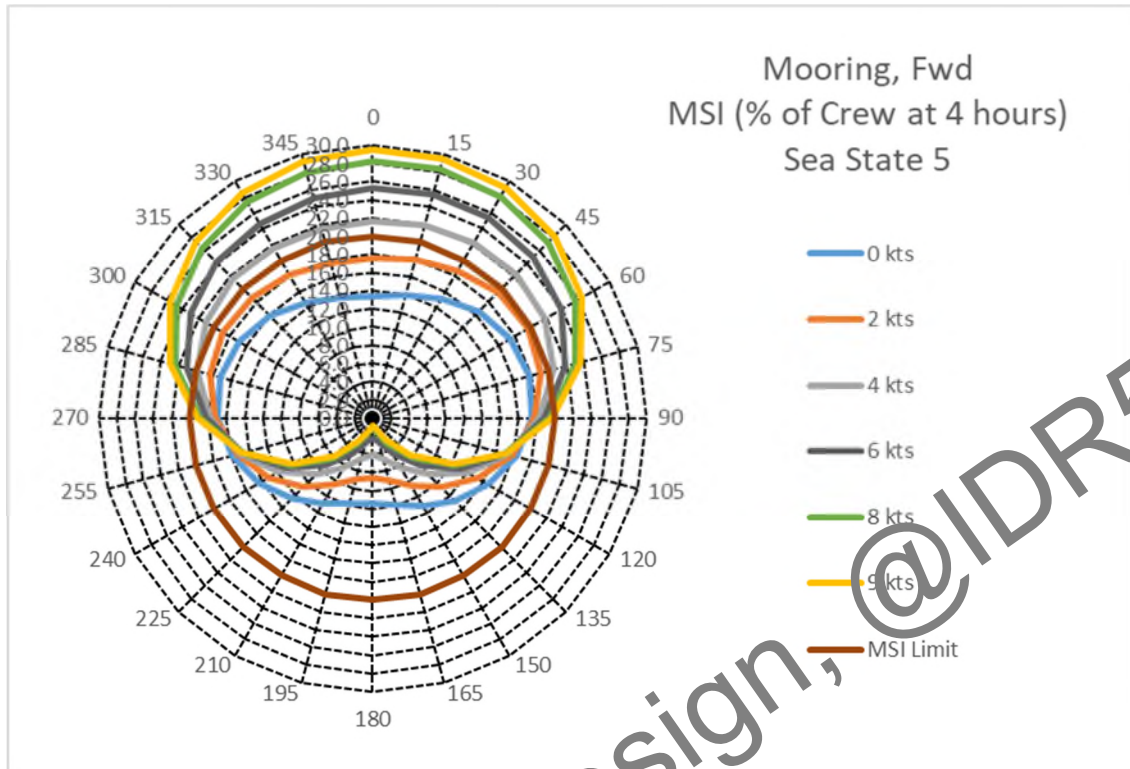
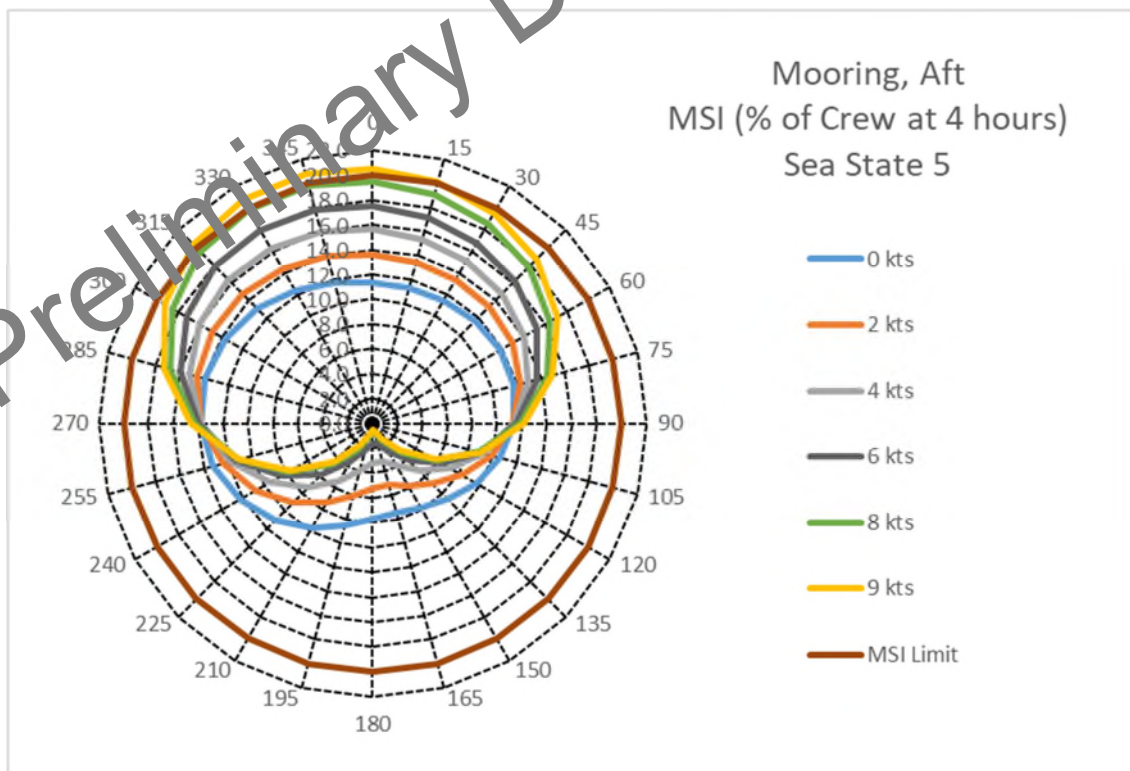


Figure 4-10: Sea State 5 MSI Polar Plot for Mooring, Aft



4.4.3 Sea State 6

Sea State 6 MSI exceeds STANAG 4154 recommended response limits only at key locations 1, 2 and 4. MII responses remain below recommended response limits for all headings, speeds, and locations. The MSI values that exceed recommended limits commence at 0 degrees through to +/- 150. While locations 1 and 2 exceed MSI limits, these are considered working locations that will be less utilized in higher sea states. These locations may require operator discretion in selecting comfortable operating headings when evolutions must be conducted in Sea State 6, particularly early in a voyage.

MSI responses exceeding STANAG 4154 recommended limits also occur at key location 4, which is the forward most stateroom outboard edge. During Sea State 6 it is more likely crew and scientists will be in berthing or watch standing locations; however, key location 6 is considerably forward than the rest of the staterooms, which results in higher MSI responses. Polar Plots with motions fully below the proposed limits are omitted from this report for clarity. Only Polar Plots with motions exceeding the limits are shown. The MSI results are shown in Polar Plot form within Figure 4-11 to Figure 4-17.

Figure 4-11: Sea State 6 MSI Polar Plot for Key Location 1

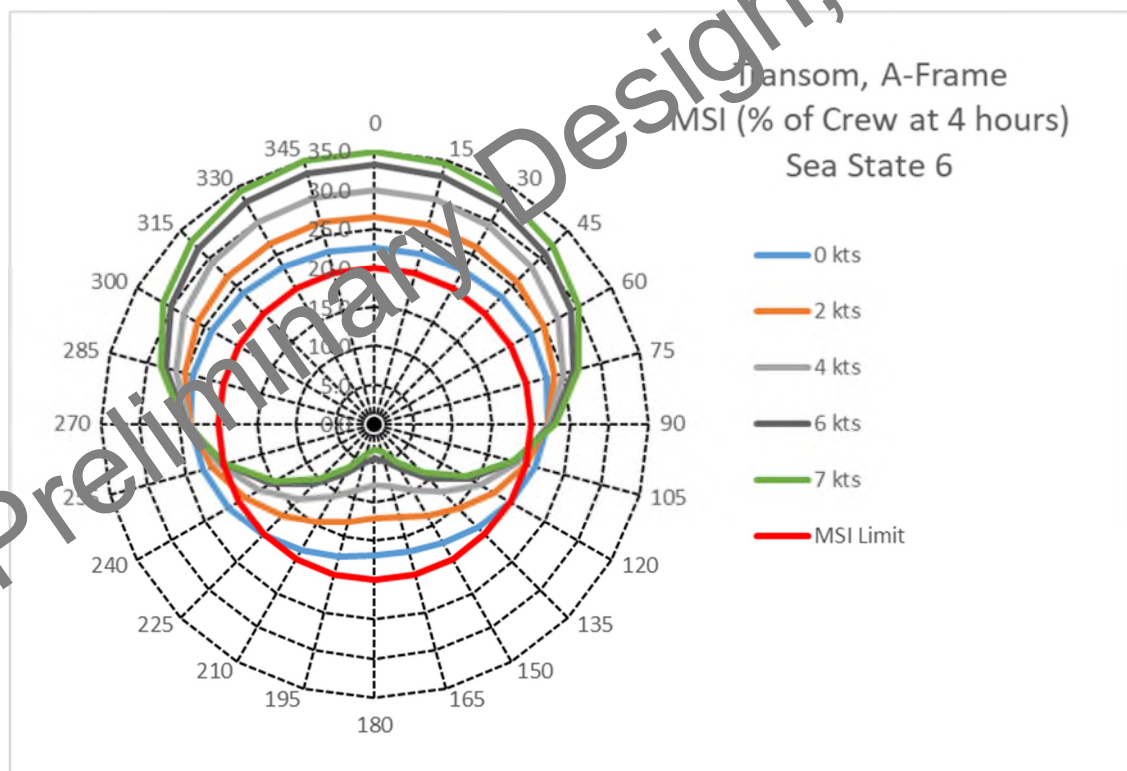


Figure 4-12: Sea State 6 MSI Polar Plot for Key Location 2

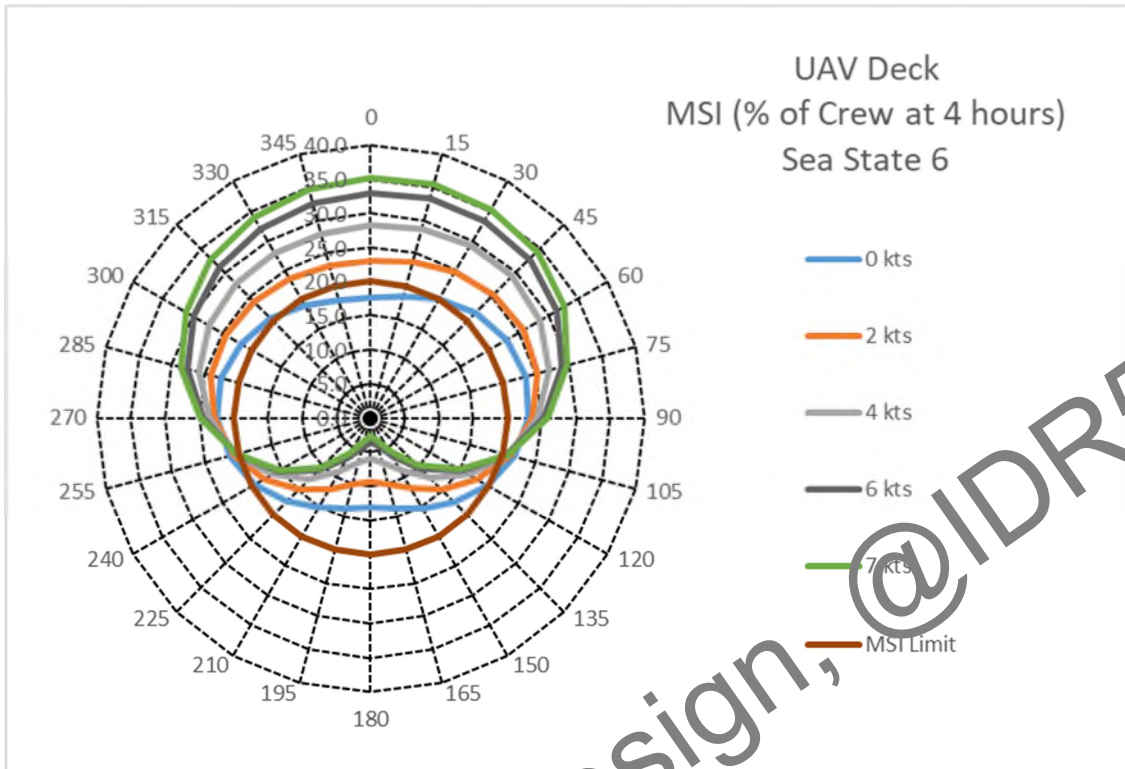


Figure 4-13: Sea State 6 MSI Polar Plot for Key Location 4

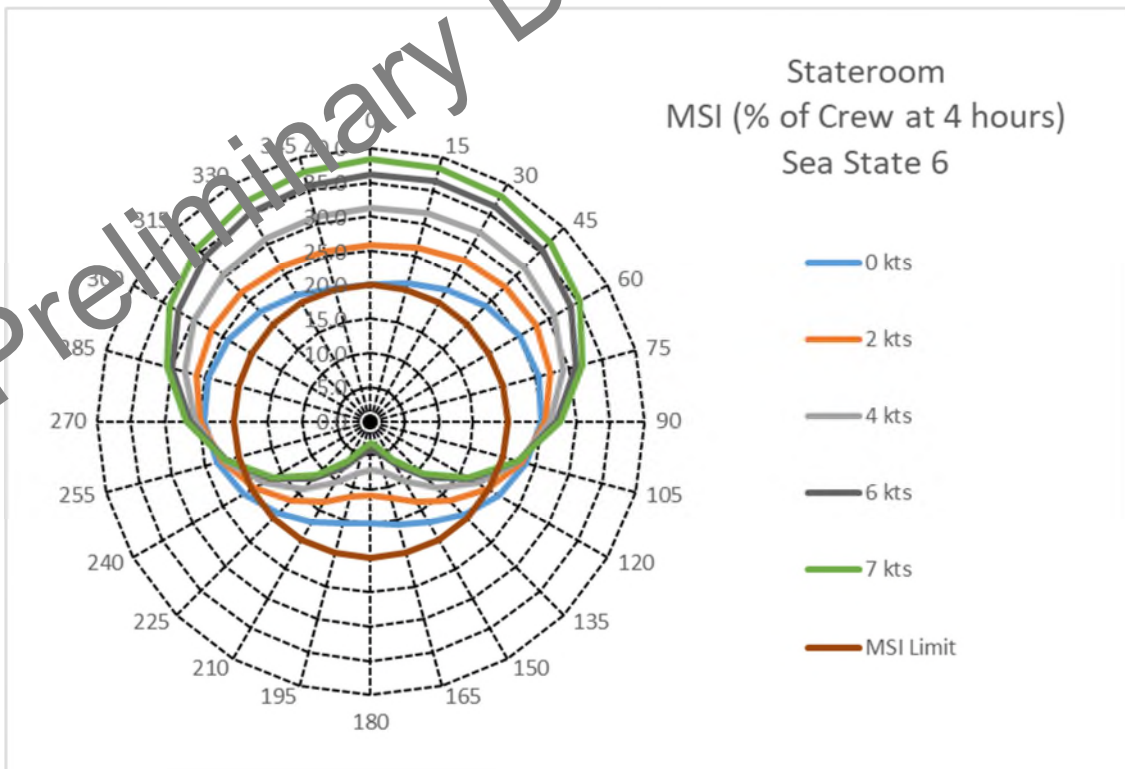


Figure 4-14: Sea State 6 MSI Polar Plot for Coring, Aft

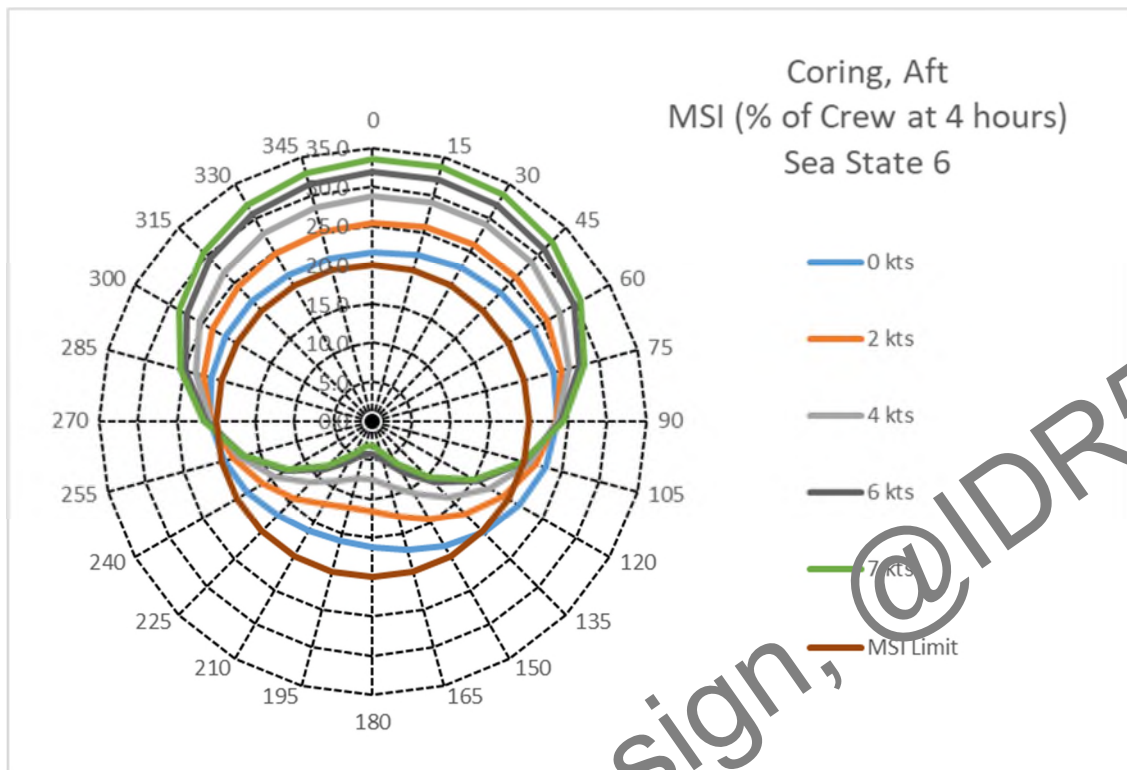


Figure 4-15: Sea State 6 MSI Polar Plot for ROV

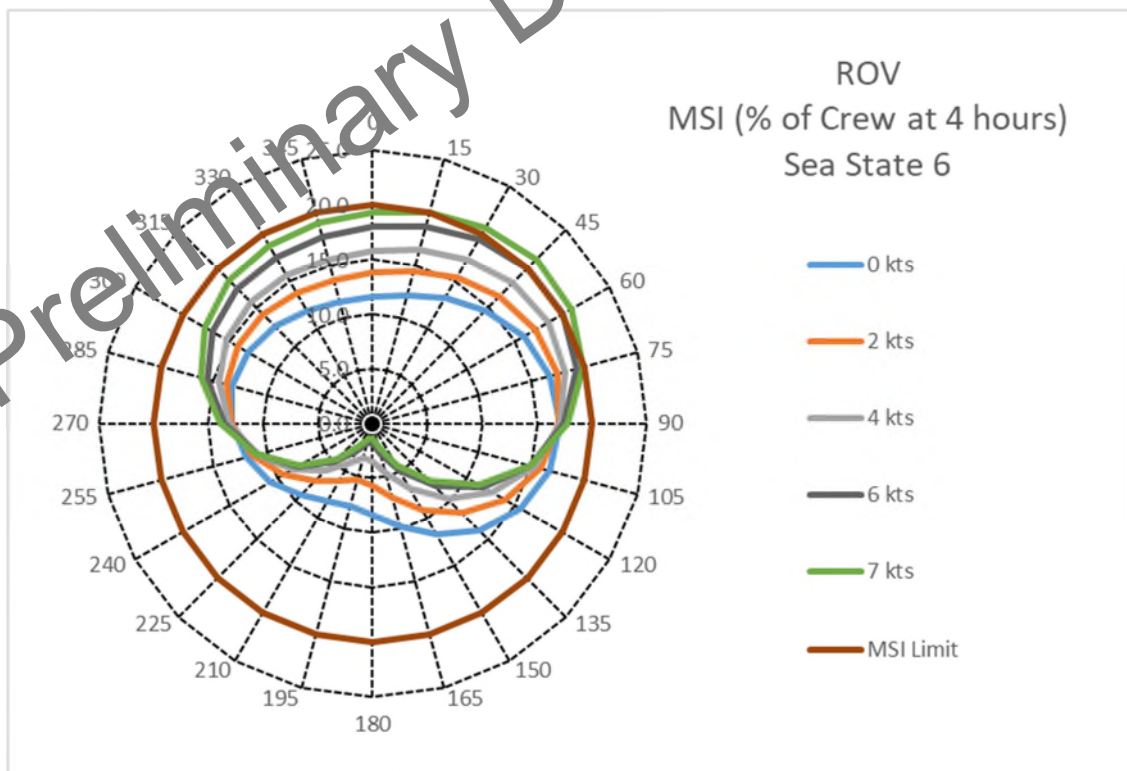


Figure 4-16: Sea State 6 MSI Polar Plot for Mooring, Fwd

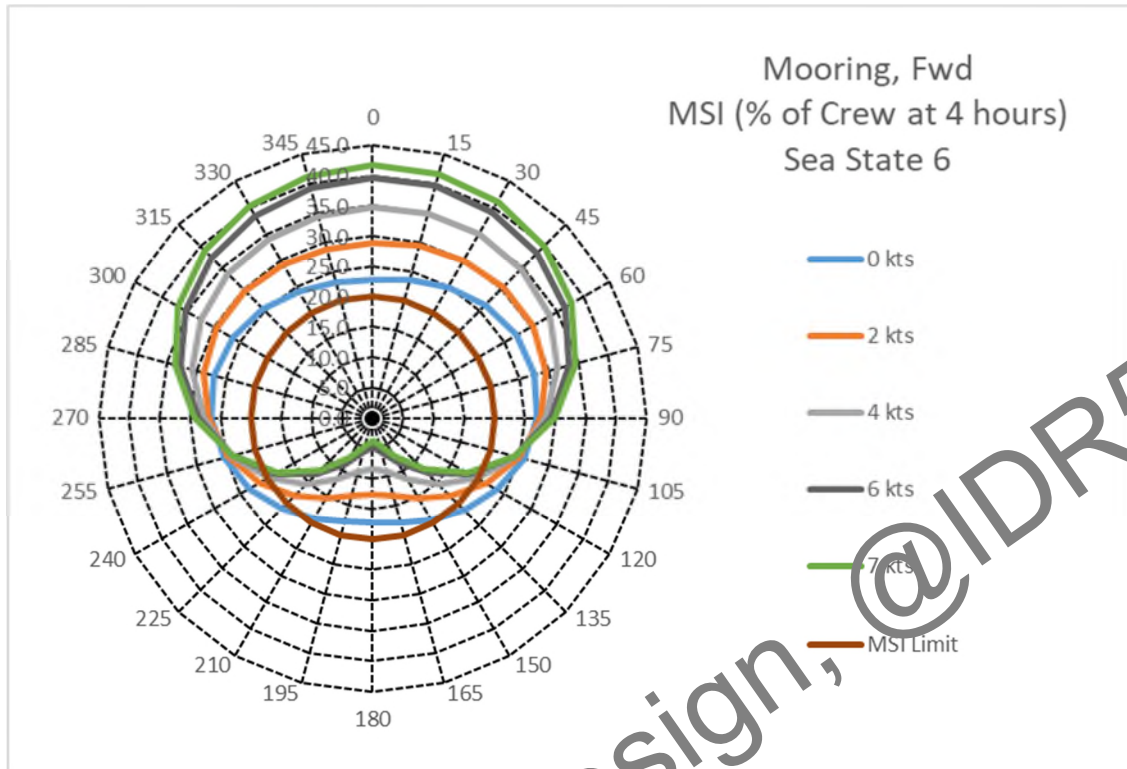
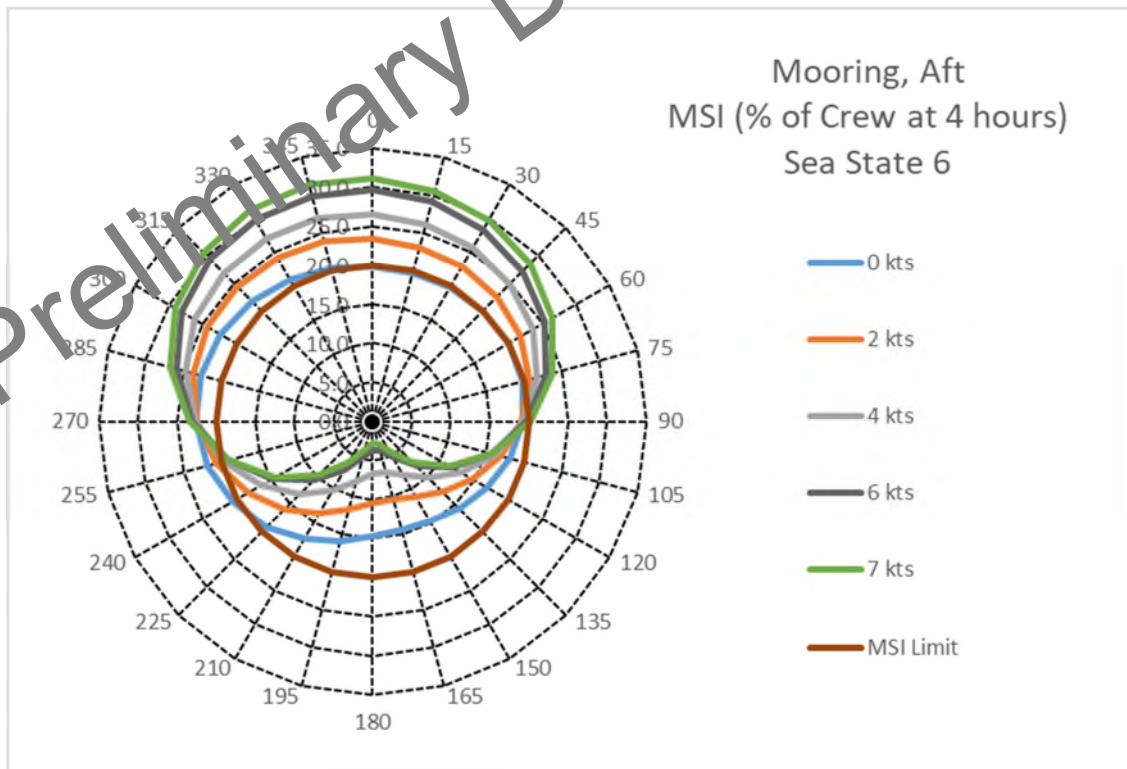


Figure 4-17: Sea State 6 MSI Polar Plot for Mooring, Aft

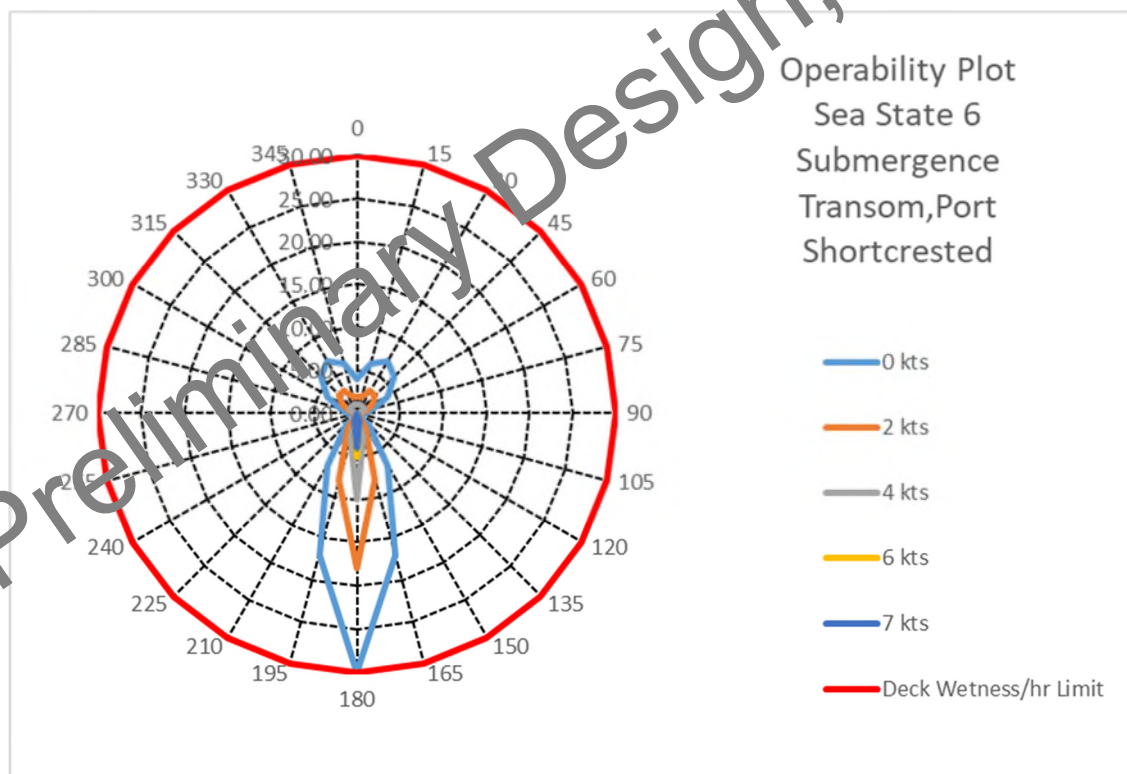


4.4.4 Submergence

Though not required by the ARV P-Spec, Reference (1), three locations were selected to analyze wetness-on-deck incidences for the vessel while underway. For this analysis, NATO STANAG 4154, Reference (4), recommends a limit of 30 incidences per hour. The Aviation Deck, Lab Van area, and the Main Deck near Transom A-Frame were selected, representing the forward-most and aft-most weather deck key locations respectively. The incidences of deck wetness were analyzed at these points in Sea States 4 through 6. While the Aviation Deck was analyzed in support of structural integration of aviation capabilities, it was not expected to see wetness at 84.5 ft above baseline.

The analysis performed in VisualSMP showed that the possibility of wetness events exists only at location #1 “Main Deck near Transom A-Frame”. The only near exceedance of the STANAG 4154 recommended criteria value occurs at a heading of 180 degrees and a speed of 0 knots (station-keeping operation) in Sea State 6, shown in Figure 4-18, where the number of incidences per hour is 30. The predicted operability for deck wetness across all headings and speeds in Sea State 6 is 100% since the number of incidences per hour just meets the criteria.

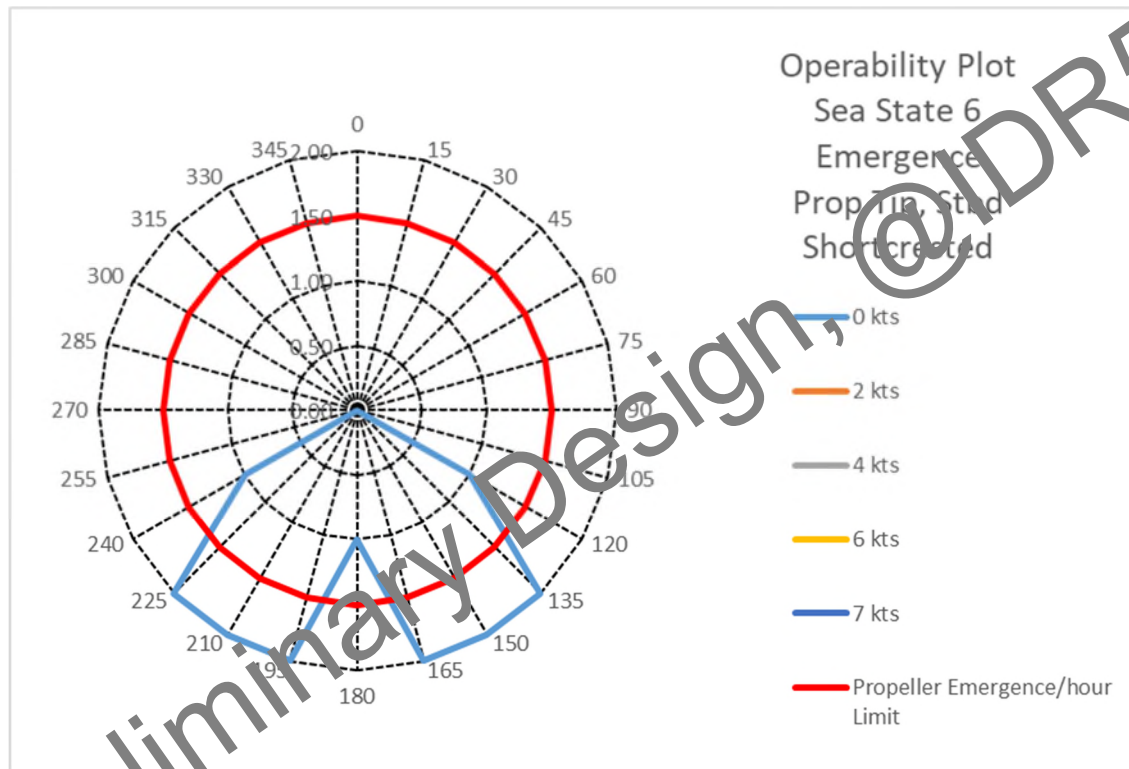
Figure 4-18: Submergence in Sea State 6 at Key Location #1



4.4.5 Propeller Emergence

While propeller emergence is not required by the ARV P-Spec, Reference (1), the emergence of the propellers' tip was analyzed using recommended limits from NATO STANAG 4154, Reference (4) for Sea States 4 to 6 at $\frac{1}{4}$ of propeller radius from the tip. The ARV tractor azipod arrangement is beneficial to preventing propeller tip emergence. Results show in sea state 6 and a speed of 0 knots (station-keeping operations), headings from 135 degrees to 225 degrees show the propeller emergence criteria just exceeds the 1.5 emergences per hour limit, as shown in Figure 4-19.

Figure 4-19: $\frac{1}{4}$ Propeller Tip Emergence



5. Conclusions

The seakeeping analysis for the Full Load, Delivery condition demonstrates the ARV meets the requirements outlined in Reference (1) in all sea states analyzed. The operability is 100% for Sea States 4 and 5, and 64% for Sea State 6. Zero speed operability within +/- 45 degrees of best heading was confirmed for Sea States 4 through 6.

Sea State 7 and 8 were analyzed using a proposed System Safety Criteria. The ARV stays within these criteria for all assessed speed/heading combinations in Sea State 7 and 8, which demonstrates that the ARV will be able to maintain safe operation during high sea states.

Reference (1) does not provide a recommended limit for MII and MSI; therefore, these responses were compared against the recommended limits provided in STANAG 4154, Reference (4). MII and MSI responses were analyzed for Sea States 4, 5, and 6. Additionally, the operability for these responses were analyzed separately from the other seakeeping responses. At Sea State 4, the ARV meets STANAG 4154 MII and MSI values for 100% of speed heading combinations. At Sea State 5 and 6, the ARV meets STANAG 4154 MII for 100% of speed heading combinations, while the best operating speed for MSI is observed at 2 knots for both sea states. With a broad range of speed and heading combinations displaying acceptable MSI responses, the ARV is considered to provide adequate operability across the design sea state range.

An additional assessment of deck wetness and propeller emergence against STANAG 4154 criteria do not predict restrictions to the ARV operability across the Sea State 4 through 6. However, it is recommended to minimize zero speed operations in direct following seas in Sea State 6 when conducting A-frame operations. Additionally, Sea State 6 showed propeller emergence exceeding the limit for seas +/- 135 degrees off the stern; propeller emergence incidences were not observed in the remaining headings analyzed.

ARV Seakeeping characteristics will be confirmed experimentally via model testing during the Stage 4 model test program. During the Final Design phase, survivability seakeeping performance will be confirmed using higher order computational tools or additional model testing to confirm that no capsize events are predicted within a range of safe operable speed and heading combinations for ARV in Sea States 7 and 8.

6. References

- (1) ASC Research Vessel Replacement Program, ARV Performance Specifications, Rev (-); Glosten; 30 November 2021
- (2) 5E1-100-D001 Hull Lines, Rev P1, Antarctic Research Vessel (ARV).
- (3) 5E1-096-R001 Design Weight Estimate, Rev P2, Antarctic Research Vessel (ARV).
- (4) NATO Standardization Agreement (STANAG) 4154, "Common Procedures for Seakeeping in the Ship Design Process", Edition 3, North Atlantic Treaty Organization, December 2000.
- (5) "Motion-Induced Interruptions as Ship Operability Criteria", Graham, R., Naval Engineers Journal, March 1990
- (6) "Motion Sickness Incidence as a Function of Vertical Sinusoidal Motion", McCauley, M.E. and O'Hanlon, J.F., Aerospace Medicine, April 1974
- (7) "Technical Report 1733-2, Motion Sickness Incidence: Exploratory Studies of Habituation, Pitch and Roll, and the Refinement of a Mathematical Model", McCauley, M.E., et al., Office of Naval Research, April 1976
- (8) Seakeeping: Ship Behavior in Rough Weather, Lloyd, Adrian R.J.M., Lloyd, 1998

Preliminary Design, @DR5

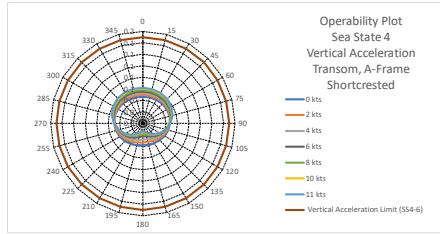
7. Appendix: ARV Seakeeping Analysis with ART DR4

(1) ARV Seakeeping Analysis with ART DR4_5E1-079-R101 Rev P3

Preliminary Design, @IDR5

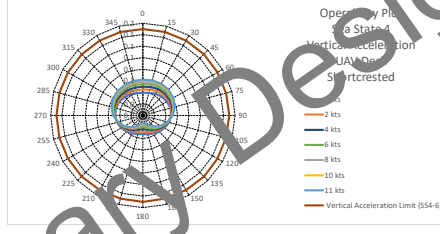
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	0	0.0466	0.0467	0.0472	0.0480	0.0485	0.0483	0.0475	0.0459	0.0438	0.0415	0.0394	0.0381	0.0379	0.0390	0.0411	0.0436	0.0461	0.0483	0.0497	0.0502	0.0500	0.0491	0.0481	0.0471	0 kts
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	2	0.0500	0.0499	0.0502	0.0504	0.0501	0.0491	0.0472	0.0444	0.0412	0.0379	0.0351	0.0333	0.0330	0.0342	0.0367	0.0400	0.0435	0.0468	0.0493	0.0510	0.0518	0.0517	0.0511	0.0504	2 kts
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	4	0.0528	0.0527	0.0527	0.0525	0.0516	0.0498	0.0469	0.0432	0.0388	0.0345	0.0308	0.0284	0.0279	0.0293	0.0324	0.0364	0.0410	0.0454	0.0491	0.0518	0.0534	0.0539	0.0537	0.0532	4 kts
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	6	0.0554	0.0552	0.0551	0.0546	0.0532	0.0507	0.0469	0.0421	0.0366	0.0312	0.0266	0.0235	0.0227	0.0244	0.0281	0.0331	0.0387	0.0443	0.0490	0.0527	0.0550	0.0560	0.0561	0.0558	6 kts
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	8	0.0581	0.0578	0.0575	0.0567	0.0549	0.0517	0.0471	0.0414	0.0350	0.0287	0.0232	0.0195	0.0184	0.0203	0.0246	0.0304	0.0370	0.0435	0.0492	0.0537	0.0567	0.0582	0.0586	0.0584	8 kts
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	10	0.0608	0.0605	0.0603	0.0599	0.0587	0.0559	0.0476	0.0411	0.0339	0.0269	0.0206	0.0164	0.0151	0.0172	0.0219	0.0284	0.0358	0.0431	0.0497	0.0549	0.0585	0.0604	0.0611	0.0610	10 kts
FID_SS4	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	11	0.0620	0.0617	0.0612	0.0600	0.0579	0.0535	0.0479	0.0411	0.0338	0.0261	0.0196	0.0152	0.0137	0.0159	0.0209	0.0277	0.0354	0.0431	0.0500	0.0555	0.0593	0.0615	0.0623	0.0623	11 kts
Limit							Vertical Acceleration Limit (SS4-6)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	

Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Vertical Acceleration	Vertical Acceleration
	Transom, A-Frame	Transom, A-Frame
	Shortcrested	Shortcrested



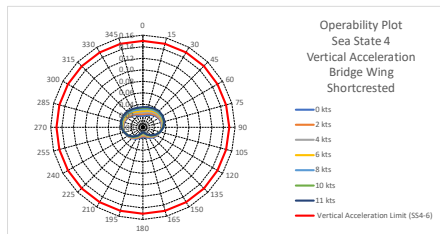
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	0	0.0393	0.0407	0.0434	0.0463	0.0486	0.0496	0.0491	0.0471	0.0439	0.0402	0.0365	0.0338	0.0325	0.0337	0.0357	0.0397	0.0433	0.0463	0.0483	0.0483	0.0470	0.0447	0.0419	0.0398	0 kts
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	2	0.0440	0.0461	0.0482	0.0501	0.0515	0.0514	0.0496	0.0464	0.0421	0.0374	0.0330	0.0298	0.0281	0.0295	0.0317	0.0347	0.0377	0.0407	0.0435	0.0458	0.0468	0.0457	0.0434	0.0415	2 kts
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	4	0.0500	0.0511	0.0526	0.0539	0.0542	0.0530	0.0501	0.0457	0.0403	0.0346	0.0295	0.0257	0.0241	0.0257	0.0296	0.0347	0.0402	0.0452	0.0490	0.0514	0.0523	0.0519	0.0508	0.0500	4 kts
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	6	0.0545	0.0554	0.0565	0.0571	0.0566	0.0544	0.0505	0.0452	0.0388	0.0322	0.0263	0.0220	0.0204	0.0220	0.0267	0.0326	0.0389	0.0448	0.0496	0.0529	0.0546	0.0550	0.0546	0.0542	6 kts
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	8	0.0581	0.0589	0.0597	0.0598	0.0586	0.0557	0.0510	0.0447	0.0375	0.0302	0.0231	0.0189	0.0171	0.0193	0.0244	0.0310	0.0380	0.0446	0.0502	0.0542	0.0567	0.0578	0.0578	0.0578	8 kts
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	10	0.0610	0.0617	0.0623	0.0621	0.0604	0.0568	0.0514	0.0445	0.0366	0.0285	0.0214	0.0166	0.0145	0.0170	0.0225	0.0296	0.0373	0.0446	0.0508	0.0555	0.0586	0.0601	0.0605	0.0606	10 kts
FID_SS4	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	11	0.0621	0.0628	0.0633	0.0630	0.0611	0.0573	0.0516	0.0444	0.0362	0.0281	0.0206	0.0153	0.0134	0.0160	0.0218	0.0291	0.0370	0.0446	0.0511	0.0561	0.0594	0.0611	0.0616	0.0617	11 kts
Limit							Vertical Acceleration Limit (SS4-6)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	

Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Vertical Acceleration	Vertical Acceleration
	UAV Deck	UAV Deck
	Shortcrested	Shortcrested



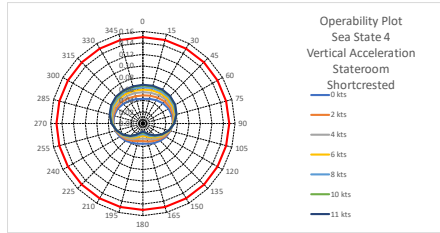
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	0	0.0201	0.0218	0.0251	0.0286	0.0314	0.0330	0.0330	0.0316	0.0288	0.0251	0.0212	0.0183	0.0174	0.0192	0.0229	0.0270	0.0306	0.0330	0.0339	0.0331	0.0310	0.0276	0.0239	0.0209	0 kts
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	2	0.0245	0.0245	0.0275	0.0306	0.0329	0.0340	0.0334	0.0289	0.0238	0.0196	0.0163	0.0154	0.0174	0.0214	0.0260	0.0300	0.0329	0.0342	0.0340	0.0323	0.0294	0.0260	0.0234	2 kts	
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	4	0.0286	0.0272	0.0309	0.0327	0.0345	0.0350	0.0339	0.0319	0.0274	0.0227	0.0180	0.0144	0.0133	0.0156	0.0201	0.0250	0.0295	0.0329	0.0347	0.0350	0.0337	0.0312	0.0283	0.0260	4 kts
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	6	0.0284	0.0299	0.0324	0.0348	0.0362	0.0361	0.0345	0.0313	0.0269	0.0217	0.0166	0.0127	0.0116	0.0142	0.0189	0.0243	0.0292	0.0330	0.0353	0.0361	0.0353	0.0332	0.0307	0.0287	6 kts
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	8	0.0311	0.0325	0.0348	0.0368	0.0377	0.0372	0.0350	0.0314	0.0265	0.0210	0.0156	0.0115	0.0103	0.0130	0.0181	0.0237	0.0290	0.0333	0.0361	0.0373	0.0369	0.0353	0.0331	0.0314	8 kts
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	10	0.0336	0.0349	0.0369	0.0386	0.0392	0.0382	0.0356	0.0315	0.0263	0.0204	0.0147	0.0103	0.0092	0.0121	0.0174	0.0233	0.0289	0.0336	0.0369	0.0385	0.0386	0.0374	0.0355	0.0339	10 kts
FID_SS4	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	11	0.0347	0.0359	0.0379	0.0394	0.0398	0.0387	0.0359	0.0316	0.0262	0.0201	0.0143	0.0099	0.0088	0.0117	0.0171	0.0231	0.0289	0.0338	0.0373	0.0392	0.0394	0.0383	0.0365	0.0350	11 kts
Limit							Vertical Acceleration Limit (SS4-6)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	

Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Vertical Acceleration	Vertical Acceleration
	Bridge Wing	Bridge Wing
	Shortcrested	Shortcrested



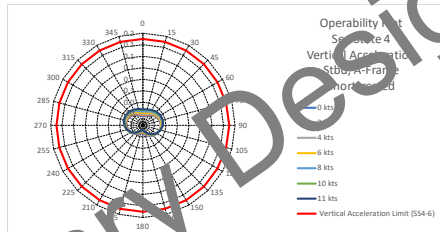
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	0	0.0428	0.0441	0.0466	0.0495	0.0517	0.0527	0.0520	0.0499	0.0467	0.0429	0.0392	0.0365	0.0353	0.0362	0.0388	0.0413	0.0440	0.0460	0.0490	0.0509	0.0513	0.0503	0.0480	0.0453	0.0433	0 kts
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	2	0.0488	0.0499	0.0518	0.0537	0.0548	0.0545	0.0525	0.0491	0.0447	0.0398	0.0354	0.0322	0.0308	0.0319	0.0351	0.0395	0.0441	0.0483	0.0514	0.0531	0.0532	0.0520	0.0503	0.0490	0.0490	2 kts
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	4	0.0543	0.0552	0.0566	0.0576	0.0577	0.0562	0.0530	0.0484	0.0427	0.0368	0.0315	0.0277	0.0262	0.0276	0.0315	0.0368	0.0424	0.0477	0.0519	0.0547	0.0559	0.0558	0.0549	0.0542	4 kts	
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	6	0.0590	0.0597	0.0607	0.0611	0.0602	0.0577	0.0534	0.0477	0.0416	0.0341	0.0280	0.0236	0.0220	0.0237	0.0283	0.0344	0.0410	0.0472	0.0525	0.0562	0.0584	0.0591	0.0590	0.0587	6 kts	
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	8	0.0628	0.0635	0.0640	0.0639	0.0624	0.0590	0.0539	0.0472	0.0396	0.0319	0.0251	0.0202	0.0184	0.0205	0.0256	0.0324	0.0398	0.0469	0.0530	0.0576	0.0606	0.0620	0.0624	0.0625	8 kts	
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	10	0.0658	0.0664	0.0667	0.0662	0.0643	0.0602	0.0543	0.0469	0.0385	0.0301	0.0227	0.0174	0.0155	0.0179	0.0236	0.0309	0.0390	0.0468	0.0536	0.0589	0.0625	0.0644	0.0651	0.0654	10 kts	
FID_SS4	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	11	0.0669	0.0679	0.0679	0.0671	0.0649	0.0607	0.0545	0.0469	0.0381	0.0294	0.0227	0.0169	0.0143	0.0169	0.0227	0.0303	0.0387	0.0468	0.0539	0.0595	0.0633	0.0654	0.0663	0.0666	11 kts	
Limit				Vertical Acceleration Limit (SS4-6)		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Vertical Acceleration	Vertical Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested



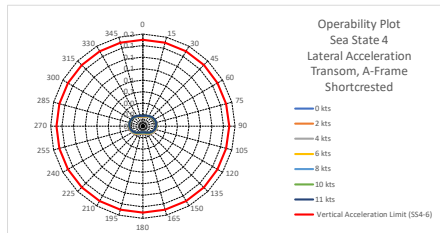
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	0	0.0160	0.0170	0.0205	0.0246	0.0282	0.0306	0.0316	0.0310	0.0289	0.0254	0.0211	0.0169	0.144	0.014	0.017	0.0214	0.0251	0.0278	0.0292	0.0291	0.0275	0.0247	0.0211	0.0178	0 kts	
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	2	0.0175	0.0185	0.0217	0.0257	0.0296	0.0312	0.0319	0.0309	0.0284	0.0246	0.0200	0.0155	0.128	0.013	0.016	0.0206	0.0246	0.0277	0.0295	0.0298	0.0285	0.0260	0.0226	0.0194	2 kts	
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	4	0.0193	0.0201	0.0232	0.0269	0.0301	0.0310	0.0313	0.0310	0.0289	0.0238	0.0189	0.0142	0.105	0.011	0.014	0.0196	0.0242	0.0278	0.0296	0.0300	0.0306	0.0297	0.0275	0.0243	0.0211	4 kts
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	6	0.0215	0.0223	0.0251	0.0286	0.0314	0.0330	0.0329	0.0312	0.0279	0.0233	0.0180	0.0131	0.010	0.011	0.014	0.0192	0.0240	0.0279	0.0305	0.0316	0.0311	0.0292	0.0263	0.0233	6 kts	
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	8	0.0240	0.0247	0.0274	0.0305	0.0330	0.0342	0.0337	0.0315	0.0278	0.0229	0.0174	0.0124	0.0093	0.011	0.014	0.0192	0.0240	0.0279	0.0305	0.0316	0.0311	0.0292	0.0263	0.0233	8 kts	
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	10	0.0266	0.0273	0.0297	0.0325	0.0347	0.0354	0.0345	0.0319	0.0278	0.0226	0.0171	0.0121	0.0085	0.0092	0.0132	0.0184	0.0238	0.0284	0.0318	0.0336	0.0339	0.0327	0.0305	0.0280	10 kts	
FID_SS4	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	8.2	11	0.0279	0.0288	0.0309	0.0336	0.0355	0.0360	0.0349	0.0321	0.0278	0.0224	0.0166	0.0116	0.0082	0.0089	0.0129	0.0183	0.0238	0.0285	0.0321	0.0342	0.0346	0.0336	0.0315	0.0292	11 kts	
Limit				Vertical Acceleration Limit (SS4-6)		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Vertical Acceleration	Vertical Acceleration
	Sbtd, A-Frame	Sbtd, A-Frame
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	0	0.0161	0.0169	0.0188	0.0211	0.0231	0.0242	0.0244	0.0235	0.0217	0.0192	0.0166	0.0143	0.0134	0.0166	0.0192	0.0217	0.0235	0.0244	0.0242	0.0242	0.0231	0.0211	0.0188	0.0169	0 kts
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	2	0.0165	0.0173	0.0191	0.0214	0.0232	0.0242	0.0242	0.0231	0.0212	0.0187	0.0160	0.0138	0.0129	0.0138	0.0160	0.0187	0.0212	0.0231	0.0242	0.0242	0.0232	0.0214	0.0191	0.0173	2 kts
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	4	0.0176	0.0178	0.0194	0.0216	0.0233	0.0242	0.0240	0.0227	0.0207	0.0181	0.0154	0.0135	0.0125	0.0133	0.0154	0.0181	0.0207	0.0227	0.0240	0.0242	0.0233	0.0216	0.0194	0.0176	4 kts
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	6	0.0172	0.0179	0.0197	0.0218	0.0234	0.0241	0.0237	0.0224	0.0202	0.0175	0.0148	0.0128	0.0120	0.0128	0.0148	0.0175	0.0202	0.0224	0.0237	0.0241	0.0234	0.0218	0.0197	0.0179	6 kts
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	8	0.0175	0.0182	0.0200	0.0221	0.0235	0.0241	0.0235	0.0220	0.0198	0.0169	0.0142	0.0121	0.0114	0.0121	0.0142	0.0169	0.0196	0.0220	0.0235	0.0241	0.0235	0.0221	0.0200	0.0182	8 kts
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	10	0.0178	0.0185	0.0203	0.0223	0.0237	0.0240	0.0235	0.0216	0.0191	0.0162	0.0135	0.0115	0.0107	0.0115	0.0135	0.0162	0.0191	0.0216	0.0233	0.0241	0.0237	0.0223	0.0203	0.0185	10 kts
FID_SS4	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	8.2	11	0.0179	0.0187	0.0205	0.0224	0.0237	0.0240	0.0232	0.0214	0.0188	0.0158	0.0131	0.0111	0.0104	0.0111	0.0131	0.0158	0.0188	0.0214	0.0232	0.0240	0.0237	0.0224	0.0205	0.0187	11 kts
Limit				Vertical Acceleration Limit (SS4-6)		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	

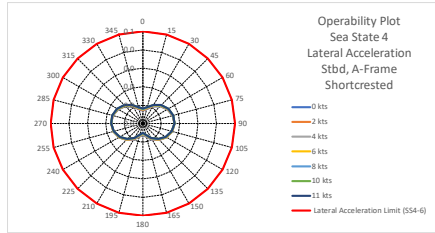
Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Lateral Acceleration	Lateral Acceleration
	Transom, A-Frame	Transom, A-Frame
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	0	0.0069	0.0081	0.0102	0.0133	0.0154	0.0168	0.0171	0.0165	0.0150	0.0126	0.0099	0.0073	0.0051	0.0073	0.0099	0.0126	0.0150	0.0165	0.0171	0.0168	0.0154	0.0133	0.0102	0.0081	0.0069
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	2	0.0072	0.0084	0.0100	0.0135	0.0156	0.0169	0.0172	0.0165	0.0149	0.0125	0.0097	0.0071	0.0050	0.0071	0.0097	0.0125	0.0149	0.0165	0.0172	0.0169	0.0156	0.0135	0.0100	0.0084	0.0072
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	4	0.0074	0.0086	0.0111	0.0137	0.0157	0.0169	0.0172	0.0164	0.0148	0.0124	0.0096	0.0069	0.0050	0.0069	0.0096	0.0124	0.0148	0.0164	0.0172	0.0169	0.0157	0.0137	0.0111	0.0086	0.0074
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	6	0.0077	0.0088	0.0113	0.0138	0.0158	0.0170	0.0172	0.0164	0.0147	0.0122	0.0094	0.0067	0.0050	0.0067	0.0094	0.0122	0.0147	0.0164	0.0172	0.0170	0.0158	0.0138	0.0113	0.0088	0.0077
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	8	0.0079	0.0090	0.0114	0.0140	0.0159	0.0170	0.0172	0.0163	0.0145	0.0121	0.0092	0.0065	0.0050	0.0065	0.0092	0.0121	0.0145	0.0163	0.0172	0.0170	0.0159	0.0140	0.0114	0.0089	0.0079
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	10	0.0081	0.0092	0.0116	0.0141	0.0160	0.0171	0.0172	0.0163	0.0144	0.0119	0.0090	0.0063	0.0051	0.0063	0.0090	0.0119	0.0144	0.0163	0.0172	0.0171	0.0160	0.0141	0.0116	0.0092	0.0081
FID_SS4	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	11	0.0082	0.0093	0.0117	0.0142	0.0161	0.0171	0.0172	0.0163	0.0144	0.0119	0.0089	0.0063	0.0050	0.0063	0.0089	0.0119	0.0144	0.0163	0.0172	0.0171	0.0161	0.0142	0.0117	0.0093	0.0082
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

Chart Title	Operability Plot
	Sea State 4
	Lateral Acceleration
	Stbd, A-Frame
	Shortcrested

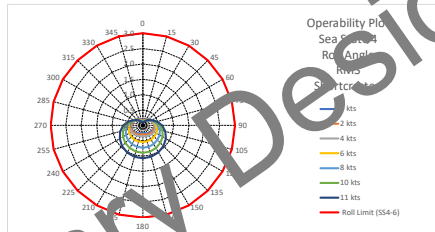
Operability Plot	Sea State 4
	Lateral Acceleration
	Stbd, A-Frame
	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	0	0.1950	0.2110	0.2490	0.2940	0.3340	0.3640	0.3800	0.3790	0.3620	0.3320	0.2970	0.2680	0.2570	0.2680	0.297	0.3320	0.3620	0.3790	0.3800	0.3640	0.3340	0.2940	0.2490	0.2110	0.1950	
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	2	0.1720	0.1890	0.2290	0.2780	0.3240	0.3630	0.3880	0.3960	0.3870	0.3640	0.3340	0.3080	0.2900	0.300	0.309	0.339	0.3640	0.3870	0.3960	0.3880	0.3630	0.3240	0.2780	0.2290	0.1890	0.1720
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	4	0.1520	0.1700	0.2130	0.2650	0.3190	0.3670	0.4040	0.4230	0.4290	0.4070	0.3830	0.3510	0.330	0.340	0.350	0.4070	0.4230	0.4290	0.4040	0.3670	0.3190	0.2650	0.2130	0.1700	0.1520	
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	6	0.1360	0.1550	0.2000	0.2580	0.3190	0.3780	0.4320	0.4750	0.5050	0.5240	0.5340	0.5380	0.540	0.5380	0.5340	0.5240	0.5050	0.4750	0.4320	0.3780	0.3190	0.2580	0.2000	0.1550	0.1360	
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	8	0.1210	0.1410	0.1890	0.2510	0.3220	0.4060	0.4970	0.5750	0.6320	0.6730	0.7040	0.7230	0.7290	0.7290	0.7230	0.6730	0.6320	0.5750	0.4970	0.4060	0.3220	0.2510	0.1890	0.1410	0.1210	
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	10	0.1090	0.1290	0.1790	0.2480	0.3330	0.4410	0.5590	0.6630	0.7440	0.8070	0.8840	0.8950	0.8840	0.8540	0.8070	0.7440	0.6630	0.5590	0.4410	0.3330	0.2480	0.1790	0.1290	0.1090		
FID_SS4	ROLL	ANGLE	RMS	SHORTCRESTED	8.2	11	0.1035	0.1240	0.1750	0.2470	0.3465	0.4785	0.6255	0.7600	0.8670	0.9505	1.0135	1.0540	1.0690	1.0540	1.0135	0.9505	0.8670	0.7600	0.6255	0.4785	0.3465	0.2470	0.1750	0.1240	0.1035	
Limit				Roll Limit (SS4-6)			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		

Chart Title	Operability Plot
	Sea State 4
	Roll Angle
	RMS
	Shortcrested

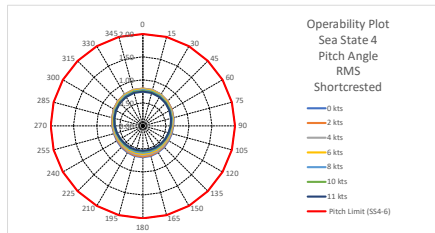
Operability Plot	Sea State 4
	Roll Angle
	RMS
	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	0	0.8120	0.8050	0.7870	0.7590	0.7260	0.6920	0.6640	0.6470	0.6440	0.6510	0.6630	0.6740	0.6770	0.6740	0.6630	0.6510	0.6440	0.6470	0.6640	0.6920	0.7260	0.7590	0.7870	0.8050	0.8120	
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	2	0.7180	0.7110	0.7000	0.7600	0.7240	0.6870	0.6570	0.6380	0.6320	0.6370	0.6470	0.6550	0.6580	0.6550	0.6470	0.6370	0.6320	0.6380	0.6570	0.6870	0.7240	0.7600	0.7900	0.8110	0.8110	0.8120
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	4	0.6400	0.6360	0.6290	0.7530	0.7160	0.6790	0.6470	0.6260	0.6170	0.6190	0.6260	0.6310	0.6330	0.6310	0.6260	0.6190	0.6170	0.6260	0.6470	0.6790	0.7160	0.7530	0.7850	0.8060	0.8060	0.8060
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	6	0.5810	0.5790	0.5740	0.7410	0.7040	0.6670	0.6350	0.6120	0.6000	0.5980	0.6010	0.6040	0.6050	0.6040	0.6010	0.5980	0.6000	0.6040	0.6410	0.6720	0.7040	0.7410	0.7720	0.7940	0.7940	0.7940
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	8	0.5330	0.5330	0.5330	0.7250	0.6910	0.6550	0.6220	0.5980	0.5830	0.5770	0.5760	0.5760	0.5760	0.5760	0.5760	0.5770	0.5830	0.5980	0.6220	0.6550	0.6910	0.7250	0.7550	0.7750	0.7750	0.7750
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	10	0.4910	0.4910	0.4910	0.7350	0.7080	0.6760	0.6420	0.6100	0.5850	0.5680	0.5590	0.5540	0.5540	0.5540	0.5540	0.5590	0.5680	0.5850	0.6100	0.6420	0.6760	0.7080	0.7350	0.7540	0.7540	0.7540
FID_SS4	PITCH	ANGLE	RMS	SHORTCRESTED	8.2	11	0.4740	0.4740	0.4740	0.6990	0.6685	0.6360	0.6045	0.5790	0.5610	0.5500	0.5435	0.5395	0.5380	0.5395	0.5435	0.5500	0.5610	0.5790	0.6045	0.6360	0.6685	0.6990	0.7245	0.7425	0.7425	0.7425
Limit				Pitch Limit (SS4-6)			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		

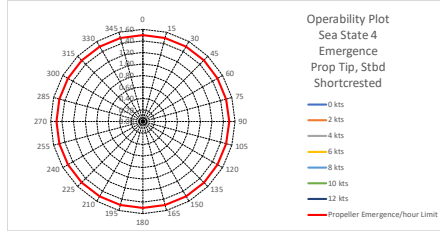
Chart Title	Operability Plot
	Sea State 4
	Pitch Angle
	RMS
	Shortcrested

Operability Plot	Sea State 4
	Pitch Angle
	RMS
	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 kts
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 kts
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4 kts
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6 kts
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8 kts
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10 kts
FLD_SS4	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	8.2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12 kts
Limit				Propeller Emergence/hour Limit			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	

Chart Title	Operability Plot	Operability Plot
	Sea State 4	Sea State 4
	Emergence	Emergence
	Prop Tip, Stbd	Prop Tip, Stbd
	Shortcrested	Shortcrested



Preliminary Design, @IDR5

LATERAL FORCES

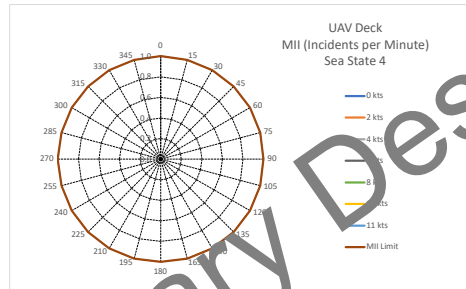
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	0	1.29	1.44	1.77	2.12	2.40	2.56	2.57	2.45	2.19	1.83	1.43	1.07	0.91	1.07	1.43	1.83	2.19	2.45	2.57	2.56	2.40	2.12	1.77	1.44	0 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	2	1.31	1.46	1.80	2.15	2.43	2.59	2.60	2.47	2.20	1.84	1.44	1.08	0.92	1.08	1.44	1.84	2.20	2.47	2.60	2.59	2.43	2.15	1.80	1.46	2 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	4	1.34	1.49	1.82	2.17	2.45	2.61	2.62	2.49	2.22	1.86	1.46	1.11	0.95	1.11	1.46	1.86	2.22	2.49	2.62	2.61	2.45	2.17	1.82	1.49	4 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	6	1.36	1.51	1.84	2.20	2.47	2.63	2.65	2.52	2.27	1.94	1.58	1.29	1.16	1.29	1.58	1.94	2.27	2.52	2.65	2.63	2.47	2.20	1.84	1.51	6 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	8	1.39	1.53	1.87	2.22	2.50	2.66	2.70	2.60	2.39	2.10	1.81	1.59	1.51	1.59	1.81	2.10	2.39	2.60	2.70	2.66	2.50	2.22	1.87	1.53	8 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	10	1.42	1.56	1.89	2.24	2.53	2.70	2.74	2.66	2.48	2.24	2.01	1.84	1.78	1.84	2.01	2.24	2.48	2.66	2.74	2.70	2.53	2.24	1.89	1.56	10 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	11	1.44	1.58	1.91	2.26	2.55	2.73	2.80	2.77	2.65	2.47	2.31	2.20	2.16	2.20	2.31	2.47	2.65	2.77	2.80	2.73	2.55	2.26	1.91	1.58	11 kts

ZERO CROSSING PERIODS																																	
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	0	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	7.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	0 kts	
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	2	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	8.00	7.00	7.00	7.00	7.00	8.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	2 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	4 kts
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	6	7.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	6 kts	
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	8	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	8.00	7.00	7.00	8 kts	
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	10	7.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	8.00	8.00	8.00	7.00	7.00	10 kts		
FLD_SS4	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	11	6.50	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	10.50	11.50	11.50	11.50	11.50	11.50	10.50	9.00	8.00	8.00	8.00	8.00	8.00	7.00	7.00	11 kts		

Incidents of Tipping MII Through the Given Duration of the Task																																				
0	2	4	6	8	10	11	Mill Limit																													
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11 kts			

Incidents of Sliding MSI Through the Given Duration of the Task																																				
0	2	4	6	8	10	11	Mill Limit																													
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 kts				
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2 kts				
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4 kts				
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6 kts				
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8 kts				
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10 kts			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11 kts			

Chart Title
 MII (Incidents per Minute)
 Sea State 4
 UAV Deck
 MII (Incidents per Minute)
 Sea State 4



Preliminary Design, @IDRIS

LATERAL FORCES

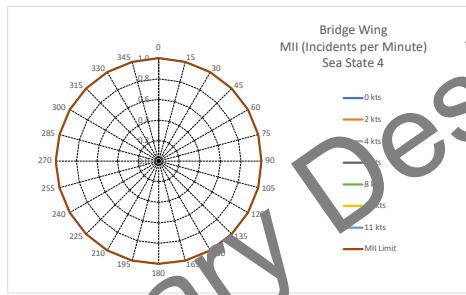
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	0	1.01	1.19	1.56	1.95	2.26	2.46	2.52	2.43	2.21	1.87	1.48	1.13	0.97	1.13	1.48	1.87	2.21	2.43	2.52	2.46	2.26	1.95	1.56	1.19	0 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	2	1.01	1.19	1.57	1.96	2.28	2.48	2.54	2.46	2.24	1.91	1.53	1.19	1.04	1.19	1.53	1.91	2.24	2.46	2.54	2.48	2.28	1.96	1.57	1.19	2 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	4	1.01	1.19	1.57	1.97	2.29	2.50	2.57	2.50	2.28	1.97	1.59	1.26	1.12	1.26	1.59	1.97	2.28	2.50	2.57	2.50	2.29	1.97	1.57	1.19	4 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	6	1.02	1.19	1.58	1.98	2.31	2.52	2.60	2.55	2.36	2.07	1.75	1.47	1.35	1.47	1.75	2.07	2.36	2.55	2.60	2.52	2.31	1.98	1.58	1.19	6 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	8	1.03	1.20	1.59	1.99	2.32	2.56	2.67	2.64	2.49	2.25	1.99	1.78	1.70	1.78	1.99	2.25	2.49	2.64	2.67	2.56	2.32	1.99	1.59	1.20	8 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	10	1.03	1.21	1.59	2.00	2.34	2.59	2.71	2.71	2.60	2.41	2.20	2.04	1.98	2.04	2.20	2.41	2.60	2.71	2.71	2.59	2.34	2.00	1.59	1.21	10 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	11	1.04	1.22	1.60	2.01	2.35	2.62	2.78	2.83	2.78	2.66	2.52	2.41	2.37	2.41	2.52	2.66	2.78	2.83	2.78	2.62	2.35	2.01	1.60	1.22	11 kts

ZERO CROSSING PERIODS																																	
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	0	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	0 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	2	9.00	9.00	9.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	9.00	9.00	9.00	2 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	8.00	8.00	8.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	4 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	6	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	6 kts
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	8	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	11.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8 kts	
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	10	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	7.00	10 kts	
FLD_S54	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	11	7.00	7.00	7.50	8.00	8.00	8.00	8.00	8.00	10.50	10.50	11.50	11.50	13.00	11.50	11.50	10.50	10.50	8.00	8.00	8.00	8.00	8.00	8.00	7.50	7.00	11 kts	

Incidents of Tipping MII Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10 kts
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11 kts	
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Incidents of Sliding MSI Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10 kts
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 4
 Bridge Wing



Preliminary Design, @IDRIS

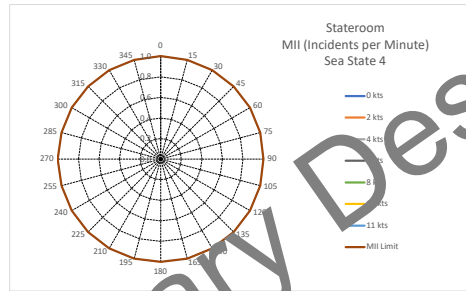
LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	0	1.37	1.51	1.84	2.18	2.46	2.61	2.48	2.21	1.85	1.45	1.09	0.94	1.09	1.45	1.85	2.21	2.48	2.61	2.61	2.46	2.18	1.84	1.51	1.37	0 kts	
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	2	1.40	1.54	1.87	2.22	2.49	2.63	2.63	2.49	2.22	1.86	1.45	1.09	0.93	1.09	1.45	1.86	2.22	2.49	2.63	2.63	2.49	2.22	1.87	1.54	1.40	2 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	4	1.43	1.57	1.89	2.24	2.51	2.65	2.65	2.51	2.24	1.87	1.46	1.11	0.95	1.11	1.46	1.87	2.24	2.51	2.65	2.65	2.51	2.24	1.89	1.57	1.43	4 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	6	1.45	1.60	1.92	2.26	2.53	2.68	2.68	2.54	2.28	1.94	1.57	1.27	1.15	1.27	1.57	1.94	2.28	2.54	2.68	2.68	2.53	2.26	1.92	1.60	1.45	6 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	8	1.48	1.63	1.95	2.29	2.56	2.71	2.73	2.61	2.38	2.09	1.79	1.57	1.49	1.57	1.79	2.09	2.38	2.61	2.73	2.71	2.56	2.29	1.95	1.63	1.48	8 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	10	1.52	1.65	1.97	2.32	2.59	2.74	2.77	2.67	2.47	2.22	1.98	1.81	1.75	1.81	1.98	2.22	2.47	2.67	2.77	2.74	2.59	2.32	1.97	1.65	1.52	10 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	11	1.54	1.67	1.99	2.33	2.61	2.77	2.83	2.78	2.63	2.45	2.28	2.16	2.12	2.16	2.28	2.45	2.63	2.78	2.83	2.77	2.61	2.33	1.99	1.67	1.54	11 kts

ZERO CROSSING PERIODS																																	
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	0	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0 kts	
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	2	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	2 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	4	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	4 kts
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	6	7.00	7.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	7.00	6 kts	
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	8	7.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00	7.00	8 kts	
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	10	6.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	8.00	8.00	8.00	8.00	7.00	7.00	7.00	10 kts	
FLD_SS4	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	8.2	11	6.00	6.50	7.00	7.00	7.50	8.00	8.00	8.00	9.00	10.50	11.50	11.50	11.50	11.50	11.50	10.50	9.00	8.00	8.00	8.00	8.00	7.50	7.00	7.00	6.50	11 kts	

Incidents of Tipping MII Through the Given Duration of the Task																																	
Duration	0	2	4	6	8	10	11	Mill Limit	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Incidents of Sliding MSI Through the Given Duration of the Task																																
Duration	0	2	4	6	8	10	11	Mill Limit	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



Preliminary Design, @IDRIS

LATERAL FORCES

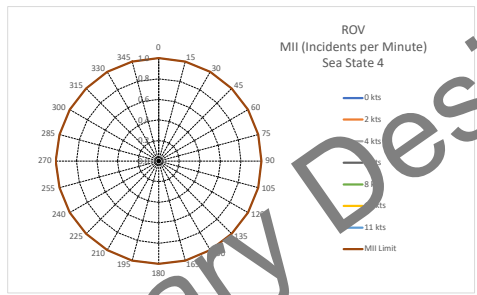
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	0	1.33	1.43	1.69	1.98	2.24	2.40	2.45	2.37	2.19	1.91	1.60	1.33	1.22	1.33	1.60	1.91	2.19	2.37	2.45	2.40	2.24	1.98	1.69	1.43	0 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	2	1.34	1.44	1.70	1.99	2.24	2.40	2.44	2.37	2.18	1.92	1.61	1.35	1.24	1.35	1.61	1.92	2.18	2.37	2.44	2.40	2.24	1.99	1.70	1.44	2 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	4	1.35	1.45	1.71	1.99	2.24	2.40	2.44	2.37	2.19	1.93	1.63	1.37	1.27	1.37	1.63	1.93	2.19	2.37	2.44	2.40	2.24	1.99	1.71	1.45	4 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	6	1.36	1.46	1.71	2.00	2.24	2.40	2.45	2.38	2.22	1.98	1.71	1.49	1.41	1.49	1.71	1.98	2.22	2.38	2.45	2.40	2.24	2.00	1.71	1.46	6 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	8	1.37	1.47	1.72	2.01	2.25	2.41	2.48	2.44	2.30	2.09	1.88	1.71	1.64	1.71	1.88	2.09	2.30	2.44	2.48	2.41	2.25	2.01	1.72	1.47	8 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	10	1.38	1.48	1.73	2.01	2.26	2.42	2.50	2.47	2.37	2.21	2.04	1.92	1.87	1.92	2.04	2.21	2.37	2.47	2.50	2.42	2.26	2.01	1.73	1.48	10 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	11	1.39	1.49	1.74	2.02	2.27	2.45	2.56	2.58	2.53	2.42	2.31	2.24	2.21	2.24	2.31	2.42	2.53	2.58	2.56	2.45	2.27	2.02	1.74	1.49	11 kts

ZERO CROSSING PERIODS																																	
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	2	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	2 kts
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	4	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	7.00	4 kts	
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	6	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	8.00	7.00	6 kts		
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	8	7.00	7.00	7.00	7.00	8.00	8.00	8.00	9.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00	7.00	8 kts		
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	10	7.00	7.00	7.00	7.00	8.00	8.00	8.00	9.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00	7.00	10 kts		
FLD_SS4	LATERAL	ACCELERATION	ROV	SHORTCRESTED	8.2	11	6.50	6.50	7.00	7.00	7.50	8.00	8.00	9.00	10.00	10.50	11.50	13.00	13.00	13.00	13.00	11.50	10.50	10.00	9.00	8.00	8.00	7.50	7.00	7.00	6.50	11 kts	

Incidents of Tipping MII Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10 kts
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11 kts
Mill Limit						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Incidents of Sliding MSI Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10 kts
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 4
 ROV
 MII (Incidents per Minute)
 Sea State 4



Preliminary Design, @IDRIS

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	0	1.48	1.61	1.91	2.24	2.50	2.64	2.63	2.49	2.22	1.86	1.46	1.12	0.97	1.12	1.46	1.86	2.22	2.49	2.63	2.64	2.50	2.24	1.91	1.61	1.48
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	2	1.51	1.65	1.95	2.28	2.53	2.66	2.65	2.50	2.22	1.85	1.45	1.10	0.94	1.10	1.45	1.85	2.22	2.50	2.65	2.66	2.53	2.28	1.95	1.65	1.51
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	4	1.54	1.68	1.98	2.31	2.56	2.68	2.66	2.50	2.22	1.84	1.44	1.09	0.94	1.09	1.44	1.84	2.22	2.50	2.66	2.68	2.56	2.31	1.98	1.68	1.54
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	6	1.57	1.71	2.01	2.33	2.58	2.70	2.68	2.52	2.25	1.90	1.53	1.23	1.11	1.23	1.53	1.90	2.25	2.52	2.68	2.70	2.58	2.33	2.01	1.71	1.57
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	8	1.61	1.74	2.04	2.36	2.61	2.73	2.73	2.59	2.34	2.03	1.73	1.51	1.42	1.51	1.73	2.03	2.34	2.59	2.73	2.73	2.61	2.36	2.04	1.74	1.61
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	10	1.64	1.77	2.07	2.39	2.64	2.76	2.76	2.63	2.41	2.15	1.90	1.73	1.67	1.73	1.90	2.15	2.41	2.63	2.76	2.76	2.64	2.39	2.07	1.77	1.64
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	11	1.66	1.79	2.09	2.41	2.66	2.79	2.82	2.73	2.56	2.36	2.18	2.07	2.03	2.07	2.18	2.36	2.56	2.73	2.82	2.79	2.66	2.41	2.09	1.79	1.66

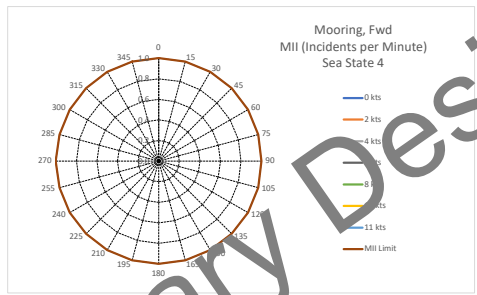
ZERO CROSSING PERIODS

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	0	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	2	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	4	7.00	7.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	6	7.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	7.00	7.00
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	8	6.00	7.00	7.00	7.00	7.00	8.00	8.00	8.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	7.00	7.00
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	10	6.00	6.00	7.00	7.00	7.00	8.00	8.00	8.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	8.00	8.00	7.00	7.00	6.00
FLD_S54	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	8.2	11	6.00	6.00	6.50	7.00	7.00	7.50	8.00	8.00	9.00	10.50	11.50	11.50	11.50	11.50	11.50	10.50	9.00	8.00	8.00	7.50	7.00	7.00	6.50	6.00	6.00	

Incidents of Tipping MII Through the Given Duration of the Task	0	2	4	6	8	10	11	Mill Limit
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1

Incidents of Sliding MSI Through the Given Duration of the Task	0	2	4	6	8	10	11
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Chart Title
 MII (Incidents per Minute)
 Sea State 4
 Mooring, Fwd
 MII (Incidents per Minute)
 Sea State 4



Preliminary Design, @IDRIS

LATERAL FORCES

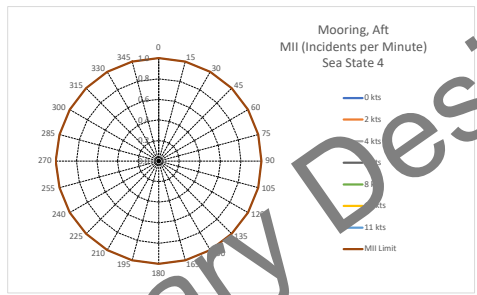
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	0	1.68	1.78	2.03	2.32	2.57	2.72	2.76	2.67	2.47	2.18	1.87	1.60	1.49	1.60	1.87	2.18	2.47	2.67	2.76	2.72	2.57	2.32	2.03	1.78	1.68	0 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	2	1.70	1.80	2.04	2.32	2.57	2.72	2.75	2.66	2.46	2.17	1.86	1.60	1.49	1.60	1.86	2.17	2.46	2.66	2.75	2.72	2.57	2.32	2.04	1.80	1.70	2 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	4	1.72	1.81	2.05	2.33	2.57	2.72	2.74	2.65	2.45	2.17	1.87	1.61	1.51	1.61	1.87	2.17	2.45	2.65	2.74	2.72	2.57	2.33	2.05	1.81	1.72	4 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	6	1.73	1.82	2.06	2.34	2.57	2.71	2.74	2.65	2.46	2.21	1.93	1.71	1.62	1.71	1.93	2.21	2.46	2.65	2.74	2.71	2.57	2.34	2.06	1.82	1.73	6 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	8	1.74	1.84	2.07	2.35	2.58	2.72	2.76	2.69	2.53	2.30	2.07	1.89	1.82	1.89	2.07	2.30	2.53	2.69	2.76	2.72	2.58	2.35	2.07	1.84	1.74	8 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	10	1.76	1.85	2.09	2.36	2.59	2.73	2.77	2.72	2.58	2.39	2.21	2.08	2.03	2.08	2.21	2.39	2.58	2.72	2.77	2.73	2.59	2.36	2.09	1.85	1.76	10 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	11	1.77	1.86	2.10	2.37	2.60	2.75	2.82	2.81	2.72	2.59	2.46	2.38	2.35	2.38	2.46	2.59	2.72	2.81	2.82	2.75	2.60	2.37	2.10	1.86	1.77	11 kts

ZERO CROSSING PERIODS																																	
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0 kts	
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	2	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	2 kts
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	4	7.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	10.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	7.00	7.00	7.00	4 kts	
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	6	7.00	7.00	7.00	7.00	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	8.00	7.00	7.00	6 kts	
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	8	6.00	7.00	7.00	7.00	7.00	8.00	8.00	9.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	9.00	8.00	8.00	7.00	7.00	7.00	8 kts		
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	10	6.00	6.00	7.00	7.00	7.00	8.00	8.00	9.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	9.00	8.00	8.00	7.00	7.00	7.00	6.00	10 kts		
FLD_S54	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	8.2	11	5.50	6.00	6.50	7.00	7.00	7.50	8.00	9.00	10.50	11.00	12.00	13.00	13.00	13.00	13.00	12.00	11.00	10.50	9.00	8.00	7.50	7.00	6.50	6.00	11 kts		

Incidents of Tipping MII Through the Given Duration of the Task	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345								
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	8.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10 kts
11.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11 kts	
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

Incidents of Sliding MSI Through the Given Duration of the Task	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345								
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	8.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10 kts
11.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11 kts	

Chart Title
 MII (Incidents per Minute)
 Sea State 4
 Mooring, Aft
 MII (Incidents per Minute)
 Sea State 4



Preliminary Design, @IDRPS

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	0	0.49	0.50	0.52	0.55	0.57	0.57	0.56	0.54	0.51	0.47	0.44	0.42	0.41	0.42	0.44	0.48	0.51	0.54	0.55	0.56	0.55	0.53	0.50	0.49	0 kts
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	2	0.53	0.54	0.56	0.58	0.59	0.58	0.57	0.54	0.49	0.45	0.41	0.39	0.38	0.39	0.42	0.46	0.50	0.53	0.56	0.57	0.57	0.56	0.54	0.53	2 kts
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	4	0.57	0.58	0.60	0.61	0.61	0.59	0.57	0.53	0.48	0.43	0.38	0.35	0.34	0.36	0.39	0.44	0.48	0.53	0.56	0.58	0.59	0.58	0.57	0.57	4 kts
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	6	0.60	0.61	0.62	0.63	0.62	0.60	0.56	0.52	0.46	0.40	0.35	0.32	0.31	0.33	0.36	0.42	0.47	0.52	0.56	0.59	0.60	0.60	0.60	0.60	6 kts
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	8	0.62	0.63	0.64	0.64	0.63	0.60	0.56	0.51	0.45	0.38	0.33	0.29	0.28	0.30	0.34	0.40	0.46	0.52	0.56	0.59	0.61	0.62	0.62	0.62	8 kts
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	10	0.64	0.64	0.65	0.65	0.64	0.61	0.56	0.50	0.43	0.36	0.30	0.26	0.25	0.27	0.32	0.38	0.45	0.51	0.56	0.60	0.62	0.63	0.63	0.63	10 kts
FLD_S54	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	8.2	11	0.64	0.65	0.65	0.65	0.64	0.61	0.56	0.50	0.43	0.35	0.29	0.25	0.24	0.26	0.31	0.38	0.44	0.51	0.56	0.60	0.63	0.63	0.64	0.64	11 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	0	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0 kts
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	2	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	2 kts
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	4 kts
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	6	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	6 kts
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	8	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	8 kts
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	10	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.06	0.06	10 kts
FLD_S54	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	8.2	11	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.06	0.06	11 kts

We	0	0.7918	0.7974	0.8120	0.8280	0.8420	0.8515	0.8559	0.8549	0.8466	0.8316	0.8110	0.7906	0.7788	0.7830	0.7988	0.8183	0.8346	0.8555	0.8506	0.8555	0.8439	0.8320	0.8151	0.7992								
We	2	0.8267	0.8305	0.8398	0.8506	0.8587	0.8626	0.8609	0.8529	0.8364	0.8119	0.7811	0.7518	0.7361	0.7446	0.7697	0.7989	0.8238	0.8422	0.8539	0.8588	0.8524	0.8420	0.8316									
We	4	0.8594	0.8614	0.8673	0.8731	0.8766	0.8753	0.8683	0.8537	0.8301	0.7948	0.7525	0.7112	0.6910	0.7049	0.7426	0.7827	0.8167	0.8427	0.8593	0.8699	0.8744	0.8734	0.8683	0.8622								
We	6	0.8888	0.8902	0.8932	0.8954	0.8947	0.8893	0.8780	0.8580	0.8268	0.7823	0.7270	0.6718	0.6450	0.6678	0.7197	0.7713	0.8142	0.8468	0.8668	0.8818	0.8910	0.8942	0.8963	0.8903								
We	8	0.9162	0.9171	0.9178	0.9173	0.9132	0.9042	0.8888	0.8641	0.8273	0.7741	0.7069	0.6373	0.6036	0.6368	0.7032	0.7621	0.8133	0.8577	0.8855	0.8945	0.9073	0.9147	0.9170	0.9173								
We	10	0.9418	0.9419	0.9406	0.9377	0.9309	0.9190	0.9009	0.8731	0.8319	0.7719	0.6925	0.6076	0.5664	0.6109	0.6916	0.7671	0.8160	0.8585	0.8857	0.9074	0.9233	0.9341	0.9399	0.9415								
We	11	0.9538	0.9534	0.9515	0.9475	0.9396	0.9265	0.9074	0.8783	0.8354	0.7724	0.6872	0.5942	0.5489	0.5997	0.6869	0.7611	0.8181	0.8597	0.8909	0.9142	0.9315	0.9435	0.9506	0.9532								

Mu(MSI)	0	-0.7952	-0.7966	-0.8000	-0.8034	-0.8061	-0.8077	-0.8088	-0.8082	-0.8069	-0.8041	-0.7998	-0.7948	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917	-0.7917		
Mu(MSI)	2	-0.8022	-0.8039	-0.8057	-0.8075	-0.8088	-0.8094	-0.8092	-0.8079	-0.8050	-0.8000	-0.7923	-0.7834	-0.7779	-0.7799	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	-0.7800	
Mu(MSI)	4	-0.8090	-0.8093	-0.8101	-0.8109	-0.8114	-0.8112	-0.8103	-0.8081	-0.8038	-0.7959	-0.7836	-0.7682	-0.7592	-0.7556	-0.7503	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502	-0.7502
Mu(MSI)	6	-0.8129	-0.8131	-0.8134	-0.8137	-0.8136	-0.8130	-0.8116	-0.8087	-0.8032	-0.7926	-0.7745	-0.7498	-0.7348	-0.7271	-0.7217	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197	-0.7197
Mu(MSI)	8	-0.8156	-0.8157	-0.8158	-0.8157	-0.8154	-0.8146	-0.8129	-0.8097	-0.8033	-0.7903	-0.7663	-0.7302	-0.7074	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025	-0.7025
Mu(MSI)	10	-0.8174	-0.8174	-0.8174	-0.8172	-0.8168	-0.8159	-0.8142	-0.8109	-0.8042	-0.7897	-0.7599	-0.7104	-0.6776	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712	-0.6712
Mu(MSI)	11	-0.8180	-0.8180	-0.8179	-0.8177	-0.8173	-0.8165	-0.8149	-0.8116	-0.8048	-0.7898	-0.7574	-0.7005	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615	-0.6615

Abs(sdbldot)	0	0.3080	0.3188	0.3395	0.3625	0.3805	0.3885	0.3845	0.3689	0.3439	0.3143	0.2858	0.2550	0.2250	0.2019	0.1827	0.1677	0.1562	0.1478	0.1414	0.1371	0.1347	0.1332	0.1326	0.1326	0.1326	0.1326	0.1326	0.1326	0.1326	0.1326	0.1326		
Abs(sdbldot)	2	0.3515	0.3610	0.3771	0.3933	0.4031	0.4020	0.3884	0.3632	0.3296	0.2925	0.2582	0.2238	0.2022	0.1816	0.1658	0.1534	0.1440	0.1376	0.1331	0.1307	0.1292	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	
Abs(sdbldot)	4	0.3917	0.4000	0.4120	0.4222	0.4243	0.4147	0.3922	0.3580	0.3158	0.2710	0.2306	0.2012	0.1829	0.1677	0.1554	0.1450	0.1386	0.1341	0.1317	0.1302	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296	0.1296
Abs(sdbldot)	6	0.4263	0.4335	0.4423	0.4473	0.4431	0.4261	0.3957	0.3535	0.3037	0.2519	0.2071	0.1721	0.1494	0.1300	0.1175	0.1090	0.1026	0.1002	0.9977	0.9952	0.9937	0.9931	0.9925	0.9925	0.9925	0.9925	0.9925	0.9925	0.9925	0.9925	0.9925	0.9925	0.9925
Abs(sdbldot)	8	0.4548	0.4611	0.4674	0.4685	0.4591	0.4361	0.3991	0.3502	0.2938	0.2361	0.1844	0.1377																					

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	0	0.25	0.27	0.30	0.34	0.37	0.39	0.39	0.37	0.34	0.30	0.26	0.23	0.22	0.24	0.28	0.33	0.37	0.39	0.40	0.39	0.36	0.33	0.28	0.25	0 kts	
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	2	0.27	0.29	0.33	0.36	0.38	0.40	0.39	0.37	0.33	0.29	0.24	0.21	0.21	0.23	0.27	0.32	0.36	0.39	0.40	0.40	0.38	0.34	0.30	0.26	2 kts	
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	4	0.30	0.31	0.35	0.38	0.40	0.40	0.39	0.36	0.32	0.28	0.23	0.20	0.19	0.22	0.26	0.31	0.36	0.39	0.41	0.41	0.39	0.36	0.32	0.30	4 kts	
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	6	0.32	0.34	0.37	0.39	0.41	0.41	0.41	0.39	0.36	0.32	0.27	0.22	0.18	0.18	0.21	0.25	0.31	0.36	0.39	0.41	0.42	0.40	0.38	0.34	0.32	6 kts
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	8	0.34	0.36	0.38	0.41	0.42	0.42	0.42	0.40	0.36	0.31	0.26	0.21	0.17	0.20	0.25	0.30	0.36	0.39	0.41	0.42	0.43	0.42	0.39	0.36	0.34	8 kts
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	10	0.36	0.37	0.40	0.42	0.43	0.43	0.42	0.40	0.36	0.31	0.25	0.20	0.16	0.16	0.19	0.24	0.30	0.35	0.40	0.43	0.43	0.43	0.41	0.38	0.36	10 kts
FLD_S54	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	8.2	11	0.37	0.38	0.40	0.42	0.43	0.43	0.42	0.40	0.36	0.31	0.25	0.20	0.16	0.16	0.19	0.24	0.30	0.35	0.40	0.43	0.43	0.43	0.41	0.39	0.37	11 kts

VERTICAL ACCELERATION

FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	0	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0 kts	
FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	2 kts
FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	4	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4 kts
FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	6	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	6 kts
FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	8	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	8 kts
FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	10	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	10 kts
FLD_S54	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	8.2	11	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	11 kts

We	0	0.7961	0.7991	0.8093	0.8202	0.8280	0.8342	0.8371	0.8374	0.8350	0.8274	0.8119	0.7887	0.7708	0.7550	0.7907	0.8058	0.8170	0.8245	0.8300	0.83	0.8352	0.8327	0.8240	0.8075	
We	2	0.8240	0.8250	0.8307	0.8362	0.8407	0.8425	0.8419	0.8388	0.8307	0.8154	0.7889	0.7538	0.7291	0.7408	0.7688	0.7921	0.8093	0.8215	0.8306	0.8376	0.8428	0.8440	0.8411	0.8313	
We	4	0.8479	0.8487	0.8507	0.8534	0.8538	0.8530	0.8489	0.8420	0.8293	0.8069	0.7701	0.7188	0.6864	0.7075	0.7485	0.7812	0.8038	0.8174	0.8283	0.8363	0.8431	0.8511	0.8562	0.8569	0.8525
We	6	0.8711	0.8713	0.8715	0.8704	0.8683	0.8645	0.8571	0.8465	0.8290	0.8005	0.7522	0.6845	0.6437	0.6773	0.7318	0.7725	0.7958	0.8114	0.8370	0.8505	0.8610	0.8691	0.8733	0.8731	
We	8	0.8940	0.8933	0.8912	0.8882	0.8831	0.8767	0.8668	0.8526	0.8298	0.7942	0.7353	0.6517	0.6045	0.6507	0.7180	0.7681	0.8001	0.8181	0.8433	0.8589	0.8727	0.8840	0.8915	0.8943	
We	10	0.9162	0.9147	0.9110	0.9059	0.8990	0.8892	0.8767	0.8595	0.8330	0.7912	0.7208	0.6197	0.5651	0.6256	0.7046	0.7671	0.8002	0.8228	0.8503	0.8692	0.8849	0.8989	0.9094	0.9148	
We	11	0.9271	0.9253	0.9208	0.9146	0.9066	0.8958	0.8821	0.8628	0.8338	0.7876	0.7089	0.5963	0.5385	0.6072	0.6950	0.7573	0.7995	0.8302	0.8542	0.8743	0.8918	0.9069	0.9184	0.9251	

Mu(MSI)	0	-0.7962	-0.7970	-0.7994	-0.8018	-0.8034	-0.8046	-0.8052	-0.8048	-0.8033	-0.8000	-0.7943	-0.7893	-0.7906	-0.7951	-0.7996	-0.7971	-0.7961	-0.7941	-0.8027	-0.8038	-0.8045	-0.8048	-0.8043	-0.8026	-0.7990
Mu(MSI)	2	-0.8026	-0.8028	-0.8039	-0.8050	-0.8058	-0.8061	-0.8060	-0.8055	-0.8039	-0.8008	-0.7944	-0.7840	-0.7753	-0.7745	-0.7887	-0.7931	-0.7944	-0.8021	-0.8039	-0.8052	-0.8062	-0.8064	-0.8059	-0.8041	
Mu(MSI)	4	-0.8071	-0.8072	-0.8076	-0.8080	-0.8081	-0.8079	-0.8073	-0.8061	-0.8037	-0.7989	-0.7991	-0.7713	-0.7571	-0.7566	-0.7823	-0.7921	-0.7981	-0.8019	-0.8044	-0.8063	-0.8076	-0.8084	-0.8086	-0.8079	
Mu(MSI)	6	-0.8107	-0.8107	-0.8107	-0.8106	-0.8103	-0.8097	-0.8086	-0.8069	-0.8036	-0.7972	-0.7835	-0.7561	-0.7341	-0.7341	-0.7633	-0.7898	-0.7974	-0.8021	-0.8051	-0.8075	-0.8092	-0.8104	-0.8110	-0.8109	
Mu(MSI)	8	-0.8135	-0.8134	-0.8132	-0.8129	-0.8122	-0.8114	-0.8101	-0.8079	-0.8038	-0.7958	-0.7776	-0.7388	-0.7081	-0.7381	-0.7682	-0.7972	-0.8026	-0.8063	-0.8089	-0.8109	-0.8123	-0.8132	-0.8130	-0.8135	
Mu(MSI)	10	-0.8157	-0.8155	-0.8152	-0.8147	-0.8140	-0.8130	-0.8114	-0.8090	-0.8044	-0.7950	-0.7721	-0.7188	-0.6764	-0.7221	-0.7633	-0.7865	-0.7973	-0.8035	-0.8075	-0.8104	-0.8125	-0.8140	-0.8151	-0.8155	
Mu(MSI)	11	-0.8165	-0.8164	-0.8160	-0.8155	-0.8148	-0.8137	-0.8121	-0.8095	-0.8045	-0.7941	-0.7672	-0.7021	-0.6513	-0.7011	-0.7611	-0.7851	-0.7971	-0.8039	-0.8081	-0.8111	-0.8133	-0.8148	-0.8158	-0.8163	

Abs(s3dbldot)	0	0.1570	0.1711	0.1966	0.2240	0.2459	0.2581	0.2586	0.2471	0.2252	0.1964	0.1663	0.1363	0.1063	0.1363	0.1506	0.1794	0.2117	0.2395	0.2581	0.2651	0.2595	0.2424	0.2163	0.1868	0.1632
Abs(s3dbldot)	2	0.1786	0.1920	0.2156	0.2398	0.2579	0.2658	0.2617	0.2457	0.2194	0.1866	0.1531	0.1271	0.1029	0.1362	0.1679	0.2035	0.2349	0.2572	0.2679	0.2661	0.2525	0.2299	0.2038	0.1832	
Abs(s3dbldot)	4	0.2002	0.2132	0.2349	0.2561	0.2704	0.2741	0.2655	0.2449	0.2144	0.1776	0.1407	0.1124	0.1044	0.1224	0.1571	0.1961	0.2311	0.2572	0.2718	0.2738	0.2637	0.2445	0.2215	0.2036	
Abs(s3dbldot)	6	0.2222	0.2344	0.2540	0.2723	0.2830	0.2826	0.2698	0.2450	0.2103	0.1703	0.1311	0.0997	0.0911	0.1109	0.1483	0.1902	0.2285	0.2583	0.2767	0.2824	0.2760	0.2602	0.2403	0.2247	
Abs(s3dbldot)	8	0.2435	0.2547	0.2723	0.2878	0.2951	0.2911	0.2743	0.2457	0.2077	0.1644	0.1221	0.0907	0.0809	0.1021	0.1415	0.1858	0.2271	0.2604	0.2824	0.2918	0.2891	0.2765	0.2594	0.2456	
Abs(s3dbldot)	10	0.2632	0.2732	0.2889	0.3021	0.3066	0.2991	0.2789	0.2469	0.2057	0.1695	0.1348	0.0809	0.0720	0.0948	0.1359	0.1824	0.2266	0.2631	0.2887	0.3017	0.3022	0.2925	0.2776	0.2652	
Abs(s3dbldot)	11	0.2720	0.2814	0.2964	0.3086	0.3118	0.3030	0.2813	0.2477	0.2050	0.1677	0.1320	0.0774	0.0685	0.0919	0.1336	0.1811	0.2266	0.2646	0.2919	0.3066	0.3086	0.3001	0.2860	0.2741	

x for ERF eq	0	-2.4986	-2.4039	-2.2464	-2.0988	-1.9938	-1.9381	-1.9348	-1.9841	-2.1571	-2.3800	-2.6042	-2.6697	-2.5580	-2.3573	-2.1685	-2.0282	-1.9429	-1.9113	-1.9325	-2.0059	-2.1307	-2.2943	-2.4497
x for ERF eq	2	-2.3432	-2.2637	-2.1352	-2.0172	-1.9361	-1.9025	-1.9196	-1.9898	-2.1801	-2.4198	-2.6544	-2.6946	-2.4946	-2.2199	-1.9999	-1.8488	-1.8995	-1.9304	-1.9				

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345				
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	0	0.19	0.20	0.24	0.29	0.33	0.36	0.37	0.35	0.31	0.26	0.21	0.18	0.18	0.21	0.26	0.30	0.33	0.35	0.35	0.35	0.34	0.31	0.27	0.22	0.18			
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	2	0.21	0.23	0.25	0.30	0.34	0.37	0.38	0.37	0.35	0.31	0.25	0.20	0.17	0.17	0.20	0.25	0.29	0.32	0.35	0.35	0.34	0.31	0.27	0.23	0.18			
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	4	0.22	0.23	0.27	0.31	0.35	0.38	0.39	0.37	0.35	0.30	0.25	0.20	0.16	0.16	0.19	0.24	0.29	0.33	0.35	0.35	0.36	0.33	0.32	0.28	0.25	0.18		
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	6	0.24	0.25	0.28	0.33	0.36	0.39	0.39	0.38	0.34	0.30	0.24	0.19	0.15	0.15	0.19	0.23	0.28	0.33	0.35	0.36	0.36	0.33	0.30	0.27	0.22	0.18		
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	8	0.27	0.27	0.30	0.34	0.38	0.40	0.40	0.38	0.34	0.30	0.24	0.19	0.15	0.15	0.18	0.23	0.28	0.33	0.35	0.36	0.37	0.37	0.35	0.32	0.29	0.23	0.18	
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	10	0.29	0.30	0.32	0.36	0.39	0.41	0.40	0.38	0.35	0.29	0.24	0.18	0.15	0.15	0.18	0.23	0.28	0.33	0.36	0.38	0.38	0.36	0.33	0.31	0.27	0.22	0.18	
FLD_S54	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	8.2	11	0.30	0.31	0.33	0.37	0.40	0.41	0.41	0.40	0.39	0.35	0.30	0.24	0.19	0.15	0.15	0.18	0.23	0.28	0.33	0.36	0.38	0.38	0.37	0.34	0.31	0.27	0.22	0.18

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345				
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	0	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01		
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	2	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	4	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	6	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	8	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	10	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
FLD_S54	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	8.2	11	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

We	0	0.8044	0.8198	0.8314	0.8335	0.8315	0.8280	0.8232	0.8179	0.8112	0.8024	0.7902	0.7746	0.7683	0.7862	0.8078	0.8211	0.8265	0.8280	0.8270	0.82	0.8194	0.8140	0.8071	0.8010
We	2	0.8268	0.8377	0.8440	0.8427	0.8368	0.8303	0.8229	0.8142	0.8035	0.7900	0.7694	0.7438	0.7303	0.7542	0.7913	0.8149	0.8256	0.8307	0.8321	0.8314	0.8299	0.8274	0.8247	0.8211
We	4	0.8443	0.8509	0.8541	0.8504	0.8424	0.8333	0.8232	0.8122	0.7975	0.7782	0.7501	0.7114	0.6887	0.7231	0.7778	0.8097	0.8258	0.8327	0.8349	0.8340	0.8416	0.8418	0.8414	0.8417
We	6	0.8613	0.8659	0.8656	0.8597	0.8501	0.8387	0.8261	0.8119	0.7932	0.7681	0.7313	0.6846	0.6456	0.6789	0.7612	0.8048	0.8207	0.8297	0.8476	0.8520	0.8550	0.8566	0.8584	0.8591
We	8	0.8815	0.8834	0.8806	0.8715	0.8595	0.8461	0.8306	0.8130	0.7905	0.7596	0.7147	0.6511	0.6028	0.6509	0.7420	0.7831	0.8281	0.8477	0.8561	0.8636	0.8688	0.8730	0.8766	0.8800
We	10	0.9038	0.9034	0.8973	0.8860	0.8713	0.8550	0.8370	0.8157	0.7890	0.7520	0.6979	0.6219	0.5590	0.6130	0.7235	0.7821	0.8292	0.8563	0.8653	0.8755	0.8835	0.8900	0.8962	0.9009
We	11	0.9146	0.9134	0.9063	0.8936	0.8776	0.8598	0.8400	0.8167	0.7867	0.7457	0.6846	0.5988	0.5264	0.5810	0.7036	0.7821	0.8268	0.8526	0.8699	0.8817	0.8909	0.8987	0.9059	0.9116

Mu(MSI)	0	-0.7983	-0.8017	-0.8041	-0.8045	-0.8041	-0.8034	-0.8024	-0.8013	-0.7998	-0.7978	-0.7947	-0.7905	-0.7886	-0.7931	-0.7951	-0.8000	-0.8034	-0.8032	-0.8026	-0.8016	-0.8005	-0.7989	-0.7973
Mu(MSI)	2	-0.8022	-0.8052	-0.8064	-0.8062	-0.8051	-0.8039	-0.8024	-0.8005	-0.7981	-0.7947	-0.7889	-0.7807	-0.7758	-0.7821	-0.7850	-0.8000	-0.8029	-0.8039	-0.8042	-0.8041	-0.8038	-0.8033	-0.8027
Mu(MSI)	4	-0.8065	-0.8076	-0.8081	-0.8075	-0.8061	-0.8044	-0.8024	-0.8001	-0.7966	-0.7915	-0.7828	-0.7683	-0.7581	-0.7630	-0.7614	-0.7900	-0.8030	-0.8047	-0.8055	-0.8058	-0.8060	-0.8060	-0.8060
Mu(MSI)	6	-0.8093	-0.8099	-0.8099	-0.8090	-0.8075	-0.8050	-0.8030	-0.8000	-0.7955	-0.7886	-0.7761	-0.7547	-0.7352	-0.7371	-0.7344	-0.7684	-0.8033	-0.8056	-0.8069	-0.8078	-0.8083	-0.8085	-0.8088
Mu(MSI)	8	-0.8120	-0.8123	-0.8119	-0.8107	-0.8090	-0.8068	-0.8039	-0.8002	-0.7948	-0.7859	-0.7696	-0.7384	-0.7069	-0.7381	-0.7371	-0.7668	-0.8034	-0.8065	-0.8084	-0.8096	-0.8103	-0.8109	-0.8118
Mu(MSI)	10	-0.8145	-0.8145	-0.8139	-0.8126	-0.8107	-0.8083	-0.8051	-0.8009	-0.7944	-0.7834	-0.7624	-0.7203	-0.6710	-0.7141	-0.7121	-0.7450	-0.8037	-0.8076	-0.8098	-0.8113	-0.8123	-0.8131	-0.8137
Mu(MSI)	11	-0.8155	-0.8154	-0.8148	-0.8135	-0.8115	-0.8090	-0.8057	-0.8011	-0.7938	-0.7813	-0.7562	-0.7039	-0.6388	-0.6769	-0.6749	-0.7028	-0.8032	-0.8079	-0.8105	-0.8121	-0.8132	-0.8140	-0.8147

Abs(sdbldot)	0	0.1250	0.1334	0.1602	0.1922	0.2204	0.2399	0.2477	0.2429	0.2259	0.1987	0.1651	0.1125	0.1153	0.1375	0.1678	0.1964	0.2177	0.2285	0.2275	0.2150	0.1930	0.1655	0.1391
Abs(sdbldot)	2	0.1372	0.1447	0.1702	0.2009	0.2273	0.2446	0.2498	0.2422	0.2224	0.1923	0.1563	0.1121	0.1101	0.1306	0.1280	0.1610	0.1936	0.2170	0.2309	0.2330	0.2035	0.1773	0.1516
Abs(sdbldot)	4	0.1509	0.1575	0.1818	0.2110	0.2356	0.2505	0.2531	0.2426	0.2196	0.1866	0.1480	0.1111	0.1085	0.0927	0.1194	0.1550	0.1896	0.2172	0.2345	0.2396	0.2327	0.2152	0.1905
Abs(sdbldot)	6	0.1682	0.1742	0.1966	0.2237	0.2460	0.2583	0.2578	0.2441	0.2180	0.1822	0.1401	0.1028	0.0933	0.0840	0.1126	0.1505	0.1877	0.2183	0.2388	0.2472	0.2433	0.2284	0.2057
Abs(sdbldot)	8	0.1880	0.1936	0.2142	0.2387	0.2582	0.2673	0.2637	0.2466	0.2175	0.1790	0.1361	0.0968	0.0727	0.0777	0.1076	0.1472	0.1867	0.2201	0.2436	0.2552	0.2544	0.2423	0.2222
Abs(sdbldot)	10	0.2084	0.2138	0.2327	0.2547	0.2713	0.2772	0.2702	0.2498	0.2176	0.1677	0.1321	0.0914	0.0666	0.0719	0.1029	0.1444	0.1862	0.2222	0.2488	0.2634	0.2656	0.2563	0.2387
Abs(sdbldot)	11	0.2180	0.2235	0.2417	0.2627	0.2778	0.2822	0.2735	0.2515	0.2179	0.1671	0.1303	0.0892	0.0643	0.0696	0.1011	0.1433	0.1861	0.2235	0.2514	0.2674	0.2710	0.2630	0.2466

x for ERF eq	0	-2.7411	-2.6620	-2.4575	-2.2587	-2.1107	-2.0207	-1.9883	-2.0122	-2.0618	-2.1493	-2.2408	-2.3297	-2.3998	-2.4403	-2.4403	-2.3998	-2.3297	-2.2408	-2.1493	-2.0618	-2.0122	-1.9883	-2.0207
x for ERF eq	2																							

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	0	0.13	0.20	0.24	0.28	0.33	0.36	0.37	0.37	0.35	0.31	0.26	0.21	0.18	0.17	0.20	0.25	0.29	0.32	0.33	0.33	0.32	0.28	0.25	0.21	0 kts	
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	2	0.19	0.26	0.24	0.29	0.33	0.36	0.38	0.37	0.34	0.30	0.25	0.20	0.17	0.16	0.19	0.24	0.28	0.32	0.34	0.34	0.32	0.29	0.25	0.21	2 kts	
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	4	0.20	0.22	0.25	0.30	0.34	0.37	0.38	0.37	0.34	0.30	0.24	0.19	0.16	0.15	0.18	0.23	0.28	0.32	0.34	0.34	0.33	0.30	0.27	0.23	4 kts	
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	6	0.22	0.23	0.27	0.31	0.35	0.38	0.38	0.37	0.34	0.29	0.24	0.19	0.15	0.15	0.18	0.23	0.27	0.31	0.34	0.35	0.34	0.32	0.28	0.24	6 kts	
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	8	0.25	0.26	0.29	0.33	0.37	0.39	0.39	0.38	0.34	0.29	0.24	0.18	0.15	0.14	0.17	0.22	0.27	0.32	0.34	0.36	0.35	0.33	0.30	0.26	8 kts	
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	10	0.27	0.28	0.31	0.35	0.38	0.40	0.40	0.40	0.38	0.34	0.29	0.23	0.18	0.15	0.14	0.17	0.22	0.27	0.32	0.35	0.36	0.36	0.34	0.31	0.28	10 kts
FLD_S54	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	8.2	11	0.28	0.29	0.32	0.36	0.39	0.40	0.40	0.40	0.38	0.34	0.29	0.24	0.18	0.15	0.15	0.17	0.22	0.27	0.32	0.35	0.37	0.37	0.35	0.32	0.29	11 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	0	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0 kts	
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	2	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	2 kts	
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	4	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	4 kts	
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	6	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	6 kts	
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	8	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	8 kts	
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	10	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	10 kts	
FLD_S54	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	8.2	11	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	11 kts

We	0	0.8083	0.8223	0.8324	0.8334	0.8306	0.8270	0.8219	0.8170	0.8107	0.8029	0.7910	0.7761	0.7682	0.7819	0.8041	0.8166	0.8226	0.8234	0.8227	0.8207	0.8164	0.8117	0.8060	0.8032	0.8024	0.8023	0.8018	0.8010	0.8000	0.7987	0.7980
We	2	0.8308	0.8419	0.8463	0.8423	0.8357	0.8290	0.8210	0.8127	0.8033	0.7925	0.7703	0.7466	0.7314	0.7538	0.7904	0.8119	0.8220	0.8262	0.8273	0.8263	0.8247	0.8238	0.8245	0.8245	0.8243	0.8238	0.8231	0.8220	0.8207	0.8198	0.8190
We	4	0.8449	0.8531	0.8543	0.8488	0.8411	0.8316	0.8216	0.8103	0.7963	0.7773	0.7502	0.7138	0.6905	0.7229	0.7763	0.8085	0.8228	0.8263	0.8273	0.8263	0.8254	0.8247	0.8245	0.8245	0.8243	0.8238	0.8231	0.8220	0.8207	0.8198	0.8190
We	6	0.8609	0.8648	0.8653	0.8577	0.8479	0.8369	0.8244	0.8095	0.7921	0.7668	0.7311	0.6829	0.6457	0.6876	0.7617	0.8042	0.8185	0.8216	0.8226	0.8216	0.8207	0.8200	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198
We	8	0.8797	0.8816	0.8789	0.8699	0.8573	0.8438	0.8285	0.8110	0.7891	0.7581	0.7135	0.6512	0.6021	0.6506	0.7427	0.7910	0.8058	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081	0.8081
We	10	0.9016	0.9012	0.8951	0.8840	0.8692	0.8529	0.8342	0.8132	0.7868	0.7504	0.6959	0.6210	0.5585	0.6111	0.7242	0.7821	0.8263	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474	0.8474
We	11	0.9125	0.9115	0.9042	0.8914	0.8755	0.8578	0.8376	0.8141	0.7848	0.7435	0.6826	0.5973	0.5250	0.5782	0.7033	0.7821	0.8486	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868	0.8868

Mu(MSI)	0	-0.7992	-0.8023	-0.8043	-0.8045	-0.8039	-0.8032	-0.8022	-0.8011	-0.7997	-0.7979	-0.7949	-0.7909	-0.7886	-0.7910	-0.7951	-0.8010	-0.8072	-0.8130	-0.8187	-0.8244	-0.8301	-0.8358	-0.8415	-0.8472	-0.8529	-0.8586	-0.8643	-0.8700	-0.8757	-0.8814
Mu(MSI)	2	-0.8040	-0.8060	-0.8068	-0.8061	-0.8049	-0.8036	-0.8020	-0.8002	-0.7980	-0.7946	-0.7892	-0.7816	-0.7762	-0.7840	-0.7945	-0.8061	-0.8177	-0.8292	-0.8407	-0.8522	-0.8637	-0.8752	-0.8867	-0.8982	-0.9097	-0.9212	-0.9327	-0.9442	-0.9557	-0.9672
Mu(MSI)	4	-0.8066	-0.8080	-0.8081	-0.8072	-0.8059	-0.8041	-0.8021	-0.7996	-0.7963	-0.7912	-0.7828	-0.7693	-0.7590	-0.7726	-0.7909	-0.8091	-0.8273	-0.8455	-0.8637	-0.8819	-0.8999	-0.9179	-0.9359	-0.9539	-0.9719	-0.9899	-1.0079	-1.0259	-1.0439	-1.0619
Mu(MSI)	6	-0.8092	-0.8098	-0.8098	-0.8087	-0.8071	-0.8051	-0.8027	-0.7995	-0.7952	-0.7881	-0.7761	-0.7553	-0.7353	-0.7571	-0.7866	-0.8202	-0.8538	-0.8874	-0.9210	-0.9546	-0.9882	-1.0218	-1.0554	-1.0890	-1.1226	-1.1562	-1.1898	-1.2234	-1.2570	-1.2906
Mu(MSI)	8	-0.8118	-0.8121	-0.8117	-0.8105	-0.8086	-0.8055	-0.7998	-0.7944	-0.7855	-0.7691	-0.7485	-0.7264	-0.7053	-0.7347	-0.7762	-0.8218	-0.8674	-0.9130	-0.9586	-1.0042	-1.0498	-1.0954	-1.1410	-1.1866	-1.2322	-1.2778	-1.3234	-1.3690	-1.4146	-1.4602
Mu(MSI)	10	-0.8143	-0.8143	-0.8136	-0.8123	-0.8104	-0.8079	-0.8046	-0.8003	-0.7939	-0.7829	-0.7615	-0.7197	-0.6705	-0.6121	-0.5474	-0.4774	-0.4024	-0.3274	-0.2524	-0.1774	-0.1024	-0.0274	0.0476	0.1226	0.1976	0.2726	0.3476	0.4226	0.4976	0.5726
Mu(MSI)	11	-0.8153	-0.8152	-0.8146	-0.8132	-0.8113	-0.8087	-0.8053	-0.8005	-0.7933	-0.7806	-0.7552	-0.7028	-0.6373	-0.5677	-0.4941	-0.4174	-0.3407	-0.2640	-0.1874	-0.1107	-0.0341	0.0426	0.1192	0.1958	0.2724	0.3490	0.4256	0.5022	0.5788	0.6554

Abs(s3dbldot)	0	0.1195	0.1290	0.1561	0.1881	0.2164	0.2359	0.2441	0.2399	0.2234	0.1966	0.1631	0.1240	0.0822	0.1082	0.1090	0.1303	0.1601	0.1883	0.2091	0.2195	0.2184	0.2061	0.1846	0.1578	0.1325	0.1072	0.0819	0.0566	0.0313
Abs(s3dbldot)	2	0.1270	0.1370	0.1638	0.1952	0.2222	0.2399	0.2458	0.2390	0.2198	0.1903	0.1544	0.1119	0.0665	0.0981	0.1215	0.1538	0.1847	0.2084	0.2215	0.2230	0.2129	0.1930	0.1669	0.1414	0.1159	0.0906	0.0653	0.0400	0.0147
Abs(s3dbldot)	4	0.1381	0.1467	0.1731	0.2038	0.2295	0.2453	0.2488	0.2391	0.2169	0.1845	0.1452	0.1092	0.0655	0.0879	0.1137	0.1487	0.1823	0.2088	0.2248	0.2289	0.2211	0.2028	0.1775	0.1520	0.1265	0.1010	0.0755	0.0500	0.0245
Abs(s3dbldot)	6	0.1533	0.1613	0.1865	0.2155	0.2392	0.2532	0.2404	0.2152	0.1800	0.1351	0.0910	0.0510	0.0100	0.0765	0.0798	0.1076	0.1447	0.1809	0.2101	0.2291	0.2309	0.2147	0.1911	0.1666	0.1421	0.1176	0.0931	0.0686	0.0441
Abs(s3dbldot)	8	0.1725	0.1801	0.2033	0.2300																									

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	0	0.58	0.59	0.61	0.63	0.64	0.64	0.63	0.61	0.58	0.54	0.51	0.49	0.48	0.49	0.49	0.51	0.54	0.57	0.60	0.62	0.63	0.63	0.61	0.59	0.58	0 kts
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	2	0.63	0.64	0.65	0.66	0.67	0.66	0.63	0.60	0.56	0.52	0.48	0.46	0.45	0.46	0.48	0.52	0.56	0.60	0.63	0.65	0.65	0.65	0.64	0.63	0.62	2 kts
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	4	0.67	0.68	0.69	0.69	0.69	0.67	0.63	0.59	0.54	0.49	0.44	0.41	0.40	0.42	0.45	0.49	0.54	0.59	0.63	0.66	0.67	0.68	0.67	0.67	4 kts	
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	6	0.71	0.71	0.71	0.71	0.70	0.67	0.63	0.58	0.52	0.46	0.41	0.37	0.36	0.38	0.41	0.46	0.52	0.58	0.63	0.66	0.69	0.70	0.70	0.70	6 kts	
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	8	0.73	0.73	0.73	0.73	0.71	0.68	0.63	0.57	0.50	0.43	0.37	0.34	0.32	0.34	0.38	0.44	0.50	0.57	0.63	0.67	0.70	0.71	0.72	0.72	8 kts	
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	10	0.74	0.74	0.74	0.74	0.72	0.68	0.62	0.56	0.48	0.41	0.35	0.30	0.29	0.31	0.35	0.42	0.49	0.56	0.62	0.67	0.71	0.72	0.73	0.74	10 kts	
FLD_S54	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	8.2	11	0.74	0.75	0.75	0.74	0.72	0.68	0.62	0.55	0.47	0.40	0.33	0.29	0.27	0.29	0.34	0.41	0.48	0.56	0.62	0.67	0.71	0.72	0.73	0.74	11 kts	

VERTICAL ACCELERATION

FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	0	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0 kts
FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	2	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	2 kts
FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	4	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	4 kts
FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	6	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	6 kts
FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	8	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.07	8 kts
FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	10	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.07	10 kts	
FLD_S54	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	8.2	11	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.07	11 kts	

We	0	0.7917	0.7978	0.8125	0.8207	0.8446	0.8546	0.8590	0.8565	0.8468	0.8298	0.8087	0.7895	0.7798	0.7854	0.8020	0.8222	0.8396	0.8511	0.8556	0.85	0.8453	0.8314	0.8137	0.7985
We	2	0.8277	0.8314	0.8413	0.8526	0.8616	0.8657	0.8636	0.8541	0.8357	0.8093	0.7779	0.7503	0.7371	0.7465	0.7717	0.8018	0.8287	0.8479	0.8595	0.85	0.8616	0.8539	0.8423	0.8318
We	4	0.8609	0.8635	0.8698	0.8765	0.8802	0.8792	0.8712	0.8545	0.8280	0.7909	0.7482	0.7094	0.6913	0.7058	0.7422	0.7840	0.8203	0.8479	0.8661	0.86	0.8761	0.8792	0.8766	0.8635
We	6	0.8918	0.8933	0.8967	0.8997	0.8994	0.8936	0.8808	0.8583	0.8243	0.7711	0.7213	0.6964	0.6451	0.6658	0.7173	0.7713	0.8071	0.8307	0.8474	0.84	0.8594	0.8627	0.8603	0.8484
We	8	0.9202	0.9206	0.9221	0.9220	0.9182	0.9088	0.8919	0.8651	0.8248	0.7689	0.7007	0.6346	0.6026	0.6339	0.6991	0.7511	0.8172	0.8414	0.8484	0.84	0.8594	0.8627	0.8603	0.8484
We	10	0.9462	0.9461	0.9456	0.9433	0.9365	0.9241	0.9043	0.8744	0.8301	0.7670	0.6872	0.6057	0.5666	0.6075	0.6873	0.7611	0.8214	0.8464	0.8484	0.84	0.8594	0.8627	0.8603	0.8484
We	11	0.9584	0.9582	0.9570	0.9533	0.9454	0.9320	0.9111	0.8802	0.8344	0.7685	0.6833	0.5945	0.5515	0.5977	0.6840	0.7633	0.8246	0.8469	0.8484	0.84	0.8594	0.8627	0.8603	0.8484

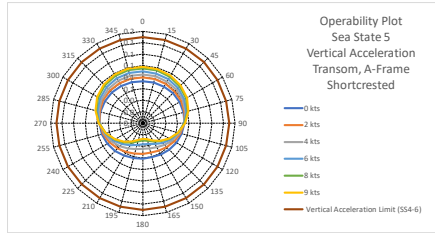
Mu(MSI)	0	-0.7951	-0.7967	-0.8001	-0.8038	-0.8065	-0.8082	-0.8089	-0.8083	-0.8069	-0.8038	-0.7993	-0.7945	-0.7919	-0.7931	-0.7951	-0.7971	-0.7991	-0.8011	-0.8028	-0.8035	-0.8035	-0.8035	-0.8035	-0.8035
Mu(MSI)	2	-0.8023	-0.8041	-0.8059	-0.8079	-0.8093	-0.8099	-0.8096	-0.8081	-0.8049	-0.7994	-0.7914	-0.7829	-0.7783	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765	-0.7765
Mu(MSI)	4	-0.8092	-0.8096	-0.8105	-0.8114	-0.8119	-0.8118	-0.8107	-0.8082	-0.8034	-0.7949	-0.7822	-0.7674	-0.7593	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556	-0.7556
Mu(MSI)	6	-0.8133	-0.8134	-0.8138	-0.8141	-0.8141	-0.8135	-0.8119	-0.8088	-0.8027	-0.7912	-0.7723	-0.7485	-0.7349	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241	-0.7241
Mu(MSI)	8	-0.8160	-0.8160	-0.8161	-0.8161	-0.8158	-0.8150	-0.8133	-0.8098	-0.8028	-0.7888	-0.7687	-0.7485	-0.7368	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271
Mu(MSI)	10	-0.8177	-0.8177	-0.8176	-0.8175	-0.8171	-0.8163	-0.8146	-0.8111	-0.8038	-0.7882	-0.7674	-0.7485	-0.7368	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271
Mu(MSI)	11	-0.8182	-0.8182	-0.8182	-0.8180	-0.8176	-0.8168	-0.8152	-0.8119	-0.8047	-0.7887	-0.7678	-0.7485	-0.7368	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271	-0.7271

Abs(s3dbldot)	0	0.3657	0.3749	0.3938	0.4155	0.4322	0.4388	0.4331	0.4158	0.3897	0.3595	0.3311	0.3010	0.2765	0.2575	0.2425	0.2310	0.2215	0.2135	0.2065	0.2005	0.1955	0.1915	0.1885	0.1865
Abs(s3dbldot)	2	0.4163	0.4237	0.4373	0.4511	0.4581	0.4540	0.4371	0.4086	0.3722	0.3333	0.2962	0.2722	0.2531	0.2371	0.2235	0.2115	0.2005	0.1905	0.1815	0.1735	0.1665	0.1605	0.1555	0.1515
Abs(s3dbldot)	4	0.4626	0.4684	0.4773	0.4840	0.4821	0.4681	0.4407	0.4018	0.3553	0.3074	0.2651	0.2340	0.2123	0.1940	0.1785	0.1645	0.1515	0.1395	0.1285	0.1185	0.1095	0.1015	0.0945	0.0885
Abs(s3dbldot)	6	0.5017	0.5063	0.5114	0.5123	0.5031	0.4806	0.4441	0.3958	0.3402	0.2841	0.2311	0.1996	0.1861	0.1730	0.1605	0.1485	0.1375	0.1275	0.1185	0.1105	0.1035	0.0975	0.0925	0.0885
Abs(s3dbldot)	8	0.5333	0.5369	0.5394	0.5358	0.5208	0.4914	0.4473	0.3912	0.3280	0.2648	0.2095	0.1511	0.1133	0.0815	0.0545	0.0315	0.0125	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Abs(s3dbldot)	10	0.5579	0.5608	0.5615	0.5548	0.5355	0.5008	0.4507	0.3881	0.3186	0.2494	0.1892	0.1460	0.1100	0.0815	0.0545	0.0315	0.0125	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Abs(s3dbldot)	11	0.5672	0.5699	0.5701	0.5624	0.5416	0.5049	0.4525	0.3874	0.3152	0.2421	0.1780	0.1361	0.1197	0.1033	0.0862	0.0691	0.0520	0.0349	0.0178	0.0007	0.0007	0.0007	0.0007	0.0007

x for ERF eq	0	-1.5837	-1.5527	-1.4905	-1.4233	-1.3737	-1.3531	-1.3653	-1.4106	-1.5111	-1.6005	-1.6767	-1.7647	-1.8029	-1.7756	-1.6967	-1.5975	-1.5028	-1.4291	-1.3853	-1.3746	-1.3964	-1.4465	-1.5119	-1.5667
x for ERF eq	2	-1.4223	-1.4014	-1.3624	-1.3238	-1.3035	-1.3119	-1.3536	-1.4308	-1.5401	-1.6377	-1.7145	-1.7957	-1.8233	-1.8057	-1.7275	-1.6283	-1.5550	-1.4482	-1.3740	-1.3347	-1.3281	-1.3485	-1.3844	-1.4153
x for ERF eq	4	-1.2892																							

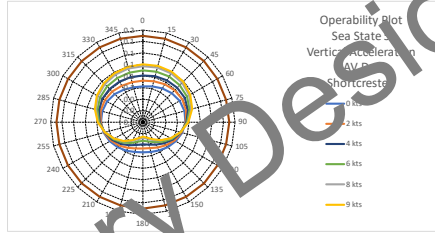
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	0	0.0735	0.0734	0.0736	0.0740	0.0740	0.0734	0.0720	0.0699	0.0673	0.0646	0.0623	0.0609	0.0609	0.0623	0.0648	0.0678	0.0708	0.0734	0.0753	0.0762	0.0763	0.0757	0.0748	0.0740	0 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	2	0.0797	0.0793	0.0790	0.0784	0.0771	0.0749	0.0716	0.0675	0.0630	0.0586	0.0551	0.0529	0.0526	0.0543	0.0575	0.0617	0.0664	0.0710	0.0749	0.0778	0.0796	0.0803	0.0804	0.0800	2 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	4	0.0851	0.0846	0.0838	0.0825	0.0802	0.0765	0.0715	0.0655	0.0591	0.0530	0.0481	0.0450	0.0443	0.0463	0.0504	0.0560	0.0624	0.0689	0.0748	0.0794	0.0827	0.0846	0.0853	0.0853	4 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	6	0.0903	0.0896	0.0886	0.0866	0.0833	0.0784	0.0718	0.0641	0.0558	0.0479	0.0415	0.0374	0.0363	0.0386	0.0437	0.0508	0.0590	0.0674	0.0750	0.0813	0.0859	0.0888	0.0901	0.0904	6 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	8	0.0957	0.0949	0.0935	0.0909	0.0867	0.0806	0.0726	0.0633	0.0534	0.0439	0.0362	0.0311	0.0297	0.0323	0.0383	0.0468	0.0564	0.0665	0.0758	0.0836	0.0894	0.0931	0.0951	0.0958	8 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	9	0.0985	0.0978	0.0961	0.0937	0.0886	0.0819	0.0731	0.0632	0.0526	0.0425	0.0341	0.0286	0.0271	0.0299	0.0362	0.0451	0.0555	0.0663	0.0764	0.0849	0.0912	0.0954	0.0977	0.0985	9 kts
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Vertical Acceleration	Vertical Acceleration
	Transom, A-Frame	Transom, A-Frame
	Shortcrested	Shortcrested



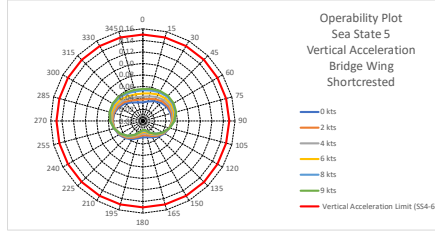
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	0	0.0623	0.0642	0.0676	0.0712	0.0739	0.0749	0.0739	0.0710	0.0666	0.0616	0.0570	0.0536	0.524	0.0536	0.057	0.0617	0.0664	0.0703	0.0726	0.0730	0.0715	0.0685	0.0651	0.0627	0 kts	
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	2	0.0719	0.0735	0.0769	0.0780	0.0798	0.0780	0.0748	0.0698	0.0635	0.0569	0.0511	0.0470	0.455	0.047	0.051	0.0574	0.0637	0.0693	0.0735	0.0758	0.0763	0.0750	0.0731	0.0718	2 kts	
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	4	0.0812	0.0825	0.0839	0.0848	0.0849	0.0811	0.0759	0.0689	0.0607	0.0525	0.0454	0.0405	0.368	0.041	0.045	0.052	0.0594	0.0662	0.0725	0.0777	0.0809	0.0814	0.0810	0.0807	4 kts	
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	6	0.0896	0.0907	0.0914	0.0910	0.0887	0.0841	0.0772	0.0683	0.0584	0.0486	0.0403	0.0346	0.032	0.0353	0.0416	0.0499	0.0592	0.0681	0.0758	0.0817	0.0856	0.0876	0.0884	0.0888	6 kts	
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	8	0.0972	0.0979	0.0980	0.0966	0.0931	0.0870	0.0784	0.0680	0.0568	0.0455	0.0360	0.0297	0.0276	0.0308	0.0377	0.0472	0.0577	0.0680	0.0772	0.0847	0.0900	0.0932	0.0950	0.0962	8 kts	
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	9	0.1004	0.1011	0.1009	0.0991	0.0950	0.0883	0.0791	0.0680	0.0559	0.0442	0.0359	0.0297	0.0276	0.0255	0.0287	0.0362	0.0461	0.0572	0.0682	0.0780	0.0861	0.0920	0.0958	0.0980	0.0994	9 kts
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15			

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Vertical Acceleration	Vertical Acceleration
	UAV Deck	UAV Deck
	Shortcrested	Shortcrested



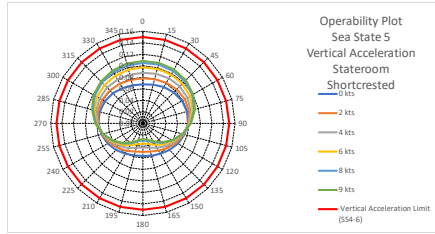
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	0	0.0326	0.0341	0.0394	0.0444	0.0483	0.0505	0.0504	0.0481	0.0440	0.0386	0.0332	0.0293	0.0285	0.0314	0.0367	0.0426	0.0477	0.0510	0.0521	0.0509	0.0475	0.0426	0.0371	0.0330	0 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	2	0.0369	0.0394	0.0437	0.0479	0.0510	0.0522	0.0511	0.0478	0.0427	0.0365	0.0304	0.0260	0.0251	0.0283	0.0342	0.0408	0.0466	0.0507	0.0527	0.0523	0.0498	0.0457	0.0410	0.0375	2 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	2	0.0420	0.0444	0.0482	0.0517	0.0539	0.0541	0.0520	0.0478	0.0417	0.0346	0.0278	0.0229	0.0218	0.0254	0.0319	0.0391	0.0457	0.0507	0.0536	0.0541	0.0524	0.0492	0.0453	0.0424	4 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	4	0.0474	0.0498	0.0529	0.0567	0.0570	0.0563	0.0532	0.0479	0.0410	0.0331	0.0256	0.0202	0.0191	0.0229	0.0299	0.0378	0.0451	0.0509	0.0547	0.0561	0.0554	0.0530	0.0499	0.0476	6 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	6	0.0529	0.0548	0.0575	0.0597	0.0602	0.0585	0.0544	0.0483	0.0405	0.0319	0.0238	0.0181	0.0169	0.0210	0.0283	0.0367	0.0447	0.0514	0.0560	0.0584	0.0586	0.0571	0.0547	0.0529	8 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	9	0.0556	0.0573	0.0598	0.0616	0.0617	0.0596	0.0551	0.0485	0.0404	0.0315	0.0231	0.0171	0.0159	0.0202	0.0277	0.0364	0.0447	0.0517	0.0568	0.0597	0.0603	0.0592	0.0572	0.0555	9 kts
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Vertical Acceleration	Vertical Acceleration
	Bridge Wing	Bridge Wing
	Shortcrested	Shortcrested



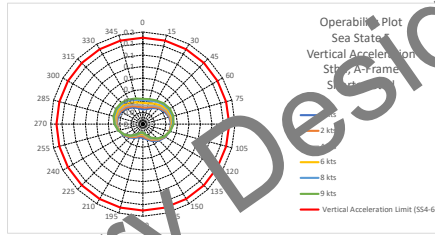
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	0	0.0677	0.0695	0.0735	0.0761	0.0786	0.0794	0.0782	0.0751	0.0707	0.0658	0.0613	0.0568	0.0527	0.0493	0.0461	0.0432	0.0406	0.0383	0.0362	0.0343	0.0326	0.0311	0.0298	0.0287	0.0278
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	2	0.0781	0.0794	0.0816	0.0834	0.0840	0.0826	0.0792	0.0739	0.0674	0.0607	0.0548	0.0508	0.0473	0.0442	0.0415	0.0391	0.0369	0.0349	0.0331	0.0315	0.0301	0.0289	0.0279	0.0271	0.0264
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	4	0.0880	0.0890	0.0902	0.0906	0.0893	0.0859	0.0803	0.0728	0.0643	0.0558	0.0486	0.0437	0.0402	0.0371	0.0344	0.0320	0.0298	0.0278	0.0260	0.0244	0.0230	0.0218	0.0208	0.0200	0.0193
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	6	0.0970	0.0978	0.0981	0.0972	0.0943	0.0891	0.0815	0.0721	0.0617	0.0515	0.0430	0.0372	0.0333	0.0307	0.0283	0.0261	0.0241	0.0222	0.0205	0.0190	0.0177	0.0166	0.0156	0.0148	0.0141
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	8	0.1049	0.1054	0.1051	0.1031	0.0989	0.0921	0.0828	0.0716	0.0596	0.0480	0.0383	0.0318	0.0276	0.0249	0.0225	0.0203	0.0183	0.0165	0.0149	0.0135	0.0123	0.0112	0.0103	0.0095	0.0088
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	9	0.1083	0.1088	0.1081	0.1057	0.1010	0.0935	0.0835	0.0716	0.0589	0.0466	0.0364	0.0295	0.0249	0.0219	0.0195	0.0173	0.0153	0.0135	0.0119	0.0105	0.0093	0.0082	0.0073	0.0066	0.0060
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Vertical Acceleration	Vertical Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested



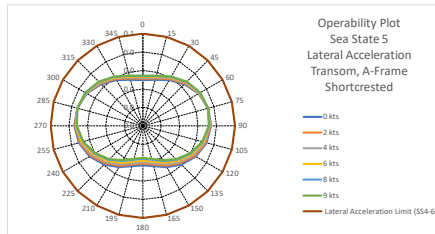
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	0	0.0256	0.0270	0.0319	0.0380	0.0435	0.0474	0.0491	0.0483	0.0453	0.0402	0.0339	0.0278	0.0238	0.0212	0.0191	0.0173	0.0158	0.0145	0.0134	0.0124	0.0115	0.0107	0.0100	0.0094	0.0088	
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	2	0.0285	0.0297	0.0343	0.0400	0.0450	0.0484	0.0494	0.0481	0.0444	0.0387	0.0320	0.0254	0.0212	0.0191	0.0173	0.0158	0.0145	0.0134	0.0124	0.0115	0.0107	0.0100	0.0094	0.0088	0.0082	0.0076
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	4	0.0320	0.0330	0.0371	0.0424	0.0470	0.0497	0.0501	0.0481	0.0437	0.0374	0.0301	0.0232	0.0187	0.0169	0.0154	0.0141	0.0129	0.0119	0.0110	0.0102	0.0094	0.0088	0.0082	0.0076	0.0070	0.0064
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	6	0.0363	0.0371	0.0408	0.0455	0.0494	0.0514	0.0511	0.0483	0.0439	0.0364	0.0286	0.0213	0.0167	0.0151	0.0138	0.0127	0.0117	0.0109	0.0101	0.0093	0.0086	0.0080	0.0074	0.0068	0.0062	0.0056
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	8	0.0413	0.0419	0.0452	0.0492	0.0523	0.0536	0.0524	0.0488	0.0430	0.0356	0.0274	0.0199	0.0151	0.0135	0.0122	0.0111	0.0102	0.0094	0.0086	0.0079	0.0073	0.0067	0.0061	0.0055	0.0049	0.0043
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	9	0.0439	0.0445	0.0475	0.0512	0.0539	0.0547	0.0532	0.0492	0.0430	0.0353	0.0269	0.0193	0.0145	0.0129	0.0117	0.0108	0.0100	0.0092	0.0084	0.0076	0.0070	0.0064	0.0058	0.0052	0.0046	0.0040
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15			

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Vertical Acceleration	Vertical Acceleration
	Stbd, A-Frame	Stbd, A-Frame
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	0	0.0268	0.0286	0.0320	0.0349	0.0367	0.0371	0.0358	0.0332	0.0297	0.0258	0.0226	0.0213	0.0202	0.0192	0.0183	0.0175	0.0167	0.0160	0.0153	0.0146	0.0140	0.0134	0.0128	0.0122	0.0116
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	2	0.0254	0.0271	0.0292	0.0325	0.0352	0.0367	0.0368	0.0353	0.0325	0.0289	0.0250	0.0218	0.0205	0.0195	0.0186	0.0178	0.0170	0.0162	0.0154	0.0146	0.0139	0.0132	0.0125	0.0118	0.0111
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	4	0.0260	0.0271	0.0297	0.0329	0.0354	0.0367	0.0365	0.0347	0.0317	0.0280	0.0241	0.0210	0.0198	0.0189	0.0181	0.0173	0.0165	0.0157	0.0149	0.0141	0.0133	0.0125	0.0117	0.0110	0.0102
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	6	0.0270	0.0276	0.0302	0.0333	0.0356	0.0367	0.0362	0.0342	0.0310	0.0270	0.0231	0.0201	0.0189	0.0181	0.0173	0.0165	0.0157	0.0149	0.0141	0.0133	0.0125	0.0117	0.0110	0.0102	0.0094
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	8	0.0280	0.0307	0.0337	0.0359	0.0367	0.0367	0.0359	0.0336	0.0301	0.0261	0.0221	0.0191	0.0179	0.0171	0.0163	0.0155	0.0147	0.0139	0.0131	0.0123	0.0115	0.0107	0.0099	0.0091	0.0083
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	9	0.0272	0.0283	0.0309	0.0339	0.0360	0.0367	0.0357	0.0333	0.0297	0.0255	0.0215	0.0185	0.0174	0.0165	0.0157	0.0149	0.0141	0.0133	0.0125	0.0117	0.0109	0.0101	0.0093	0.0085	0.0077
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Lateral Acceleration	Lateral Acceleration
	Transom, A-Frame	Transom, A-Frame
	Shortcrested	Shortcrested



Preliminary Design, @IDR5

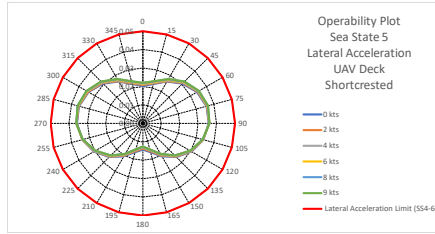
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	0	0.0304	0.0221	0.0261	0.0305	0.0338	0.0358	0.0358	0.0340	0.0305	0.0258	0.0206	0.0151	0.0142	0.0161	0.0206	0.0258	0.0305	0.0340	0.0358	0.0358	0.0339	0.0305	0.0261	0.0221	0 kts
FID_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	2	0.0207	0.0225	0.0265	0.0300	0.0343	0.0360	0.0359	0.0339	0.0303	0.0255	0.0202	0.0156	0.0137	0.0156	0.0202	0.0255	0.0303	0.0339	0.0359	0.0360	0.0343	0.0309	0.0265	0.0225	2 kts
FID_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	4	0.0211	0.0228	0.0269	0.0313	0.0346	0.0362	0.0360	0.0339	0.0301	0.0252	0.0198	0.0151	0.0131	0.0151	0.0198	0.0252	0.0301	0.0339	0.0360	0.0362	0.0346	0.0313	0.0269	0.0228	4 kts
FID_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	6	0.0215	0.0232	0.0273	0.0316	0.0349	0.0364	0.0361	0.0338	0.0299	0.0249	0.0194	0.0147	0.0127	0.0147	0.0194	0.0249	0.0299	0.0338	0.0361	0.0364	0.0349	0.0316	0.0273	0.0232	6 kts
FID_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	8	0.0218	0.0236	0.0276	0.0319	0.0351	0.0366	0.0361	0.0337	0.0297	0.0247	0.0192	0.0146	0.0126	0.0146	0.0192	0.0247	0.0297	0.0337	0.0361	0.0366	0.0351	0.0319	0.0276	0.0236	8 kts
FID_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	9	0.0220	0.0237	0.0278	0.0321	0.0352	0.0367	0.0361	0.0337	0.0297	0.0245	0.0191	0.0145	0.0125	0.0145	0.0191	0.0245	0.0297	0.0337	0.0361	0.0367	0.0352	0.0321	0.0278	0.0237	9 kts
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

Chart Title

Operability Plot
Sea State 5
Lateral Acceleration
UAV Deck
Shortcrested

Operability Plot

Sea State 5
Lateral Acceleration
UAV Deck
Shortcrested



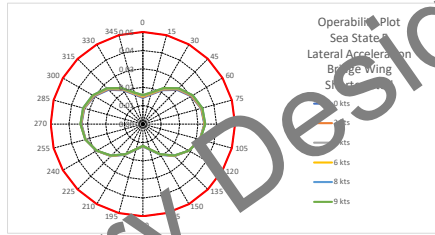
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	0	0.0143	0.0165	0.0213	0.0264	0.0303	0.0327	0.0333	0.0320	0.0290	0.0245	0.0192	0.0143	0.121	0.014	0.192	0.0245	0.0290	0.0320	0.0333	0.0327	0.0303	0.0264	0.0213	0.0165	0 kts
FID_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	2	0.0146	0.0168	0.0216	0.0266	0.0306	0.0329	0.0334	0.0321	0.0290	0.0244	0.0191	0.0142	0.120	0.014	0.191	0.0244	0.0290	0.0321	0.0334	0.0329	0.0306	0.0266	0.0216	0.0168	2 kts
FID_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	4	0.0149	0.0171	0.0219	0.0269	0.0309	0.0332	0.0336	0.0322	0.0290	0.0244	0.0190	0.0141	0.119	0.014	0.190	0.0244	0.0290	0.0322	0.0336	0.0332	0.0309	0.0269	0.0219	0.0171	4 kts
FID_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	6	0.0153	0.0175	0.0222	0.0272	0.0311	0.0334	0.0338	0.0322	0.0289	0.0243	0.0189	0.0140	0.118	0.014	0.189	0.0243	0.0289	0.0322	0.0338	0.0334	0.0311	0.0272	0.0222	0.0175	6 kts
FID_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	8	0.0156	0.0177	0.0225	0.0275	0.0313	0.0335	0.0338	0.0322	0.0289	0.0242	0.0188	0.0140	0.117	0.014	0.188	0.0242	0.0289	0.0322	0.0338	0.0335	0.0313	0.0275	0.0225	0.0177	8 kts
FID_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	9	0.0157	0.0179	0.0226	0.0276	0.0314	0.0336	0.0338	0.0322	0.0289	0.0242	0.0188	0.0139	0.0117	0.014	0.188	0.0242	0.0289	0.0322	0.0338	0.0336	0.0314	0.0276	0.0226	0.0179	9 kts
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

Chart Title

Operability Plot
Sea State 5
Lateral Acceleration
Bridge Wing
Shortcrested

Operability Plot

Sea State 5
Lateral Acceleration
Bridge Wing
Shortcrested



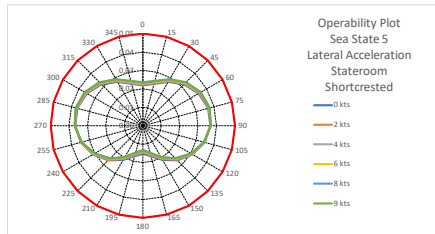
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_S55	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	0	0.0218	0.0277	0.0317	0.0350	0.0368	0.0367	0.0347	0.0312	0.0265	0.0214	0.0170	0.0152	0.0170	0.0214	0.0265	0.0312	0.0347	0.0367	0.0368	0.0350	0.0317	0.0277	0.0218	0 kts	
FID_S55	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	2	0.0209	0.0227	0.0267	0.0301	0.0334	0.0350	0.0349	0.0329	0.0291	0.0243	0.0195	0.0146	0.0126	0.0146	0.0195	0.0243	0.0291	0.0329	0.0349	0.0350	0.0334	0.0301	0.0267	0.0227	2 kts
FID_S55	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	4	0.0206	0.0224	0.0264	0.0298	0.0331	0.0347	0.0346	0.0326	0.0288	0.0240	0.0192	0.0143	0.0123	0.0143	0.0192	0.0240	0.0288	0.0326	0.0346	0.0347	0.0331	0.0298	0.0264	0.0224	4 kts
FID_S55	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	6	0.0203	0.0221	0.0261	0.0295	0.0328	0.0344	0.0343	0.0323	0.0285	0.0237	0.0189	0.0140	0.0120	0.0140	0.0189	0.0237	0.0285	0.0323	0.0343	0.0344	0.0328	0.0295	0.0261	0.0221	6 kts
FID_S55	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	8	0.0204	0.0222	0.0262	0.0296	0.0329	0.0345	0.0344	0.0324	0.0286	0.0238	0.0190	0.0141	0.0121	0.0141	0.0190	0.0238	0.0286	0.0324	0.0344	0.0345	0.0329	0.0296	0.0262	0.0222	8 kts
FID_S55	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	9	0.0204	0.0222	0.0262	0.0296	0.0329	0.0345	0.0344	0.0324	0.0286	0.0238	0.0190	0.0141	0.0121	0.0141	0.0190	0.0238	0.0286	0.0324	0.0344	0.0345	0.0329	0.0296	0.0262	0.0222	9 kts
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

Chart Title

Operability Plot
Sea State 5
Lateral Acceleration
Stateroom
Shortcrested

Operability Plot

Sea State 5
Lateral Acceleration
Stateroom
Shortcrested

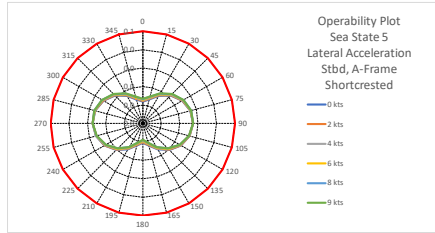


Preliminary Design, @IDR5

File Name	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	13.1	0	0.0118	0.0135	0.0173	0.0214	0.0246	0.0267	0.0273	0.0269	0.0239	0.0204	0.0162	0.0123	0.0106	0.0123	0.0162	0.0204	0.0239	0.0267	0.0273	0.0267	0.0246	0.0214	0.0173	0.0135	0.0118	
FLD_S55	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	13.1	2	0.0122	0.0139	0.0176	0.0216	0.0248	0.0268	0.0273	0.0262	0.0237	0.0201	0.0158	0.0120	0.0102	0.0120	0.0158	0.0201	0.0237	0.0262	0.0268	0.0273	0.0262	0.0248	0.0216	0.0176	0.0139	0.0122
FLD_S55	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	13.1	4	0.0126	0.0142	0.0180	0.0219	0.0251	0.0269	0.0273	0.0261	0.0238	0.0199	0.0155	0.0116	0.0099	0.0116	0.0155	0.0199	0.0238	0.0261	0.0269	0.0273	0.0261	0.0251	0.0219	0.0180	0.0142	0.0126
FLD_S55	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	13.1	6	0.0130	0.0146	0.0183	0.0222	0.0253	0.0270	0.0273	0.0260	0.0234	0.0196	0.0152	0.0112	0.0094	0.0112	0.0152	0.0196	0.0234	0.0260	0.0269	0.0273	0.0260	0.0253	0.0222	0.0183	0.0146	0.0130
FLD_S55	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	13.1	8	0.0133	0.0149	0.0186	0.0225	0.0255	0.0271	0.0273	0.0259	0.0231	0.0193	0.0149	0.0109	0.0090	0.0109	0.0149	0.0193	0.0231	0.0259	0.0269	0.0273	0.0271	0.0255	0.0225	0.0186	0.0149	0.0133
FLD_S55	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	13.1	9	0.0134	0.0151	0.0188	0.0226	0.0256	0.0272	0.0273	0.0259	0.0230	0.0192	0.0147	0.0107	0.0089	0.0107	0.0147	0.0192	0.0230	0.0259	0.0269	0.0273	0.0272	0.0256	0.0226	0.0188	0.0151	0.0134
Limit				Lateral Acceleration Limit (SS4-G)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Lateral Acceleration	Lateral Acceleration
	Sbtd, A-Frame	Sbtd, A-Frame
	Shortcrested	Shortcrested

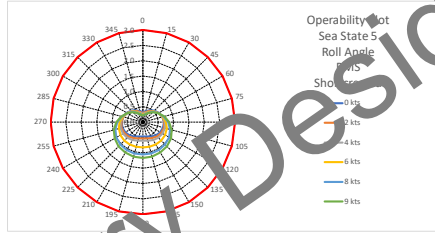
Operability Plot	Sea State 5
Lateral Acceleration	Lateral Acceleration
Sbtd, A-Frame	Sbtd, A-Frame
Shortcrested	Shortcrested



File Name	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	ROLL	ANGLE	RMS	SHORTCRESTED	13.1	0	0.3400	0.3710	0.4460	0.5310	0.6050	0.6600	0.6880	0.6880	0.6590	0.6060	0.5430	0.4880	0.4500	0.4880	0.5430	0.6060	0.6590	0.6880	0.6880	0.6600	0.6050	0.5310	0.4460	0.3710	0.3400	
FLD_S55	ROLL	ANGLE	RMS	SHORTCRESTED	13.1	2	0.3060	0.3380	0.4160	0.5090	0.5920	0.6580	0.7000	0.7130	0.6960	0.6530	0.5970	0.5480	0.5000	0.5480	0.5970	0.6530	0.6960	0.7130	0.7000	0.6880	0.6590	0.5920	0.5090	0.4160	0.3380	0.3060
FLD_S55	ROLL	ANGLE	RMS	SHORTCRESTED	13.1	4	0.2770	0.3110	0.3920	0.4920	0.5850	0.6640	0.7210	0.7480	0.7440	0.7120	0.6650	0.6220	0.5800	0.6220	0.6650	0.7120	0.7440	0.7480	0.7210	0.6640	0.5850	0.4920	0.3920	0.3110	0.2770	
FLD_S55	ROLL	ANGLE	RMS	SHORTCRESTED	13.1	6	0.2530	0.2880	0.3730	0.4790	0.5830	0.6770	0.7550	0.8100	0.8390	0.8460	0.8380	0.8270	0.8000	0.8460	0.8390	0.8380	0.8270	0.8100	0.7550	0.6770	0.5830	0.4790	0.3730	0.2880	0.2530	
FLD_S55	ROLL	ANGLE	RMS	SHORTCRESTED	13.1	8	0.2280	0.2640	0.3530	0.4660	0.5840	0.7050	0.8240	0.9220	0.9870	1.0240	1.0440	1.0530	1.0550	1.0440	1.0530	1.0240	0.9870	0.9220	0.8240	0.7050	0.5840	0.4660	0.3530	0.2640	0.2280	
FLD_S55	ROLL	ANGLE	RMS	SHORTCRESTED	13.1	9	0.2175	0.2540	0.3445	0.4620	0.5880	0.7230	0.8600	0.9765	1.0885	1.1110	1.1435	1.1615	1.1670	1.1435	1.1110	1.0885	0.9765	0.8600	0.7230	0.5880	0.4620	0.3445	0.2540	0.2175		
Limit				Roll Limit (SS4-G)			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Roll Angle	Roll Angle
	RMS	RMS
	Shortcrested	Shortcrested

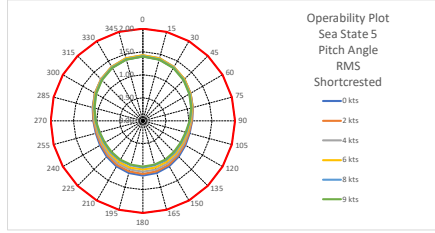
Operability Plot	Sea State 5
Roll Angle	Roll Angle
RMS	RMS
Shortcrested	Shortcrested



File Name	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	PITCH	ANGLE	RMS	SHORTCRESTED	13.1	0	1.1700	1.2560	1.2710	1.1960	1.1250	1.0740	1.0540	1.0680	1.1040	1.1460	1.1770	1.1890	1.1770	1.1460	1.1040	1.0680	1.0540	1.0740	1.1250	1.1960	1.2710	1.2560	1.1700	1.1700	
FLD_S55	PITCH	ANGLE	RMS	SHORTCRESTED	13.1	2	1.4180	1.4940	1.3530	1.2820	1.2010	1.1230	1.0650	1.0390	1.0460	1.0760	1.1130	1.1410	1.1510	1.1410	1.1130	1.0760	1.0460	1.0390	1.0650	1.1230	1.2010	1.2820	1.3530	1.4010	1.4180
FLD_S55	PITCH	ANGLE	RMS	SHORTCRESTED	13.1	4	1.4250	1.4080	1.3570	1.2840	1.1980	1.1160	1.0530	1.0200	1.0430	1.0740	1.0980	1.1070	1.0980	1.0740	1.0430	1.0200	1.0020	1.0200	1.0530	1.1160	1.1980	1.2840	1.3570	1.4080	1.4250
FLD_S55	PITCH	ANGLE	RMS	SHORTCRESTED	13.1	6	1.4200	1.4010	1.3510	1.2760	1.1900	1.1050	1.0380	0.9990	0.9920	1.0080	1.0330	1.0520	1.0590	1.0520	1.0330	1.0080	0.9920	0.9990	1.0380	1.1050	1.1900	1.2760	1.3510	1.4010	1.4200
FLD_S55	PITCH	ANGLE	RMS	SHORTCRESTED	13.1	8	1.4140	1.3860	1.3360	1.2630	1.1770	1.0920	1.0220	0.9780	0.9650	0.9740	0.9920	1.0070	1.0130	1.0070	0.9920	0.9740	0.9650	0.9780	1.0220	1.0920	1.1770	1.2630	1.3360	1.3860	1.4140
FLD_S55	PITCH	ANGLE	RMS	SHORTCRESTED	13.1	9	1.3950	1.3755	1.3265	1.2545	1.1695	1.0840	1.0145	0.9685	0.9520	0.9580	0.9735	0.9865	0.9915	0.9865	0.9735	0.9580	0.9520	0.9685	1.0145	1.0840	1.1695	1.2545	1.3265	1.3755	1.3950
Limit				Pitch Limit (SS4-G)			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

Chart Title	Operability Plot	Operability Plot
	Sea State 5	Sea State 5
	Pitch Angle	Pitch Angle
	RMS	RMS
	Shortcrested	Shortcrested

Operability Plot	Sea State 5
Pitch Angle	Pitch Angle
RMS	RMS
Shortcrested	Shortcrested

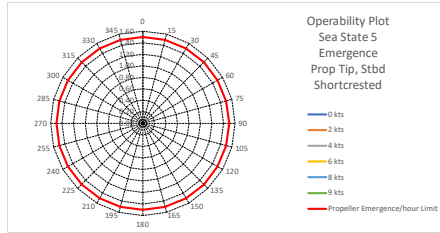


Preliminary Design, @IDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	13.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 kts
FLD_S55	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	13.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 kts
FLD_S55	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	13.1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4 kts
FLD_S55	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	13.1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6 kts
FLD_S55	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	13.1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8 kts
FLD_S55	EMERGENCE	0 Prop Tip, Stbd		SHORTCRESTED	13.1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9 kts
Limit				Propeller Emergence/Hour Limit			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	

Chart Title	Operability Plot
	Sea State 5
	Emergence
	Prop Tip, Stbd
	Shortcrested

Operability Plot
Sea State 5
Prop Tip, Stbd
Shortcrested



Preliminary Design, @IDR5

Motion Induced Interruption Analysis

- User Input Cell Ranges
- User Input Cell Ranges
- Calculation Cell Ranges

Table of Constants

g =	32.17	ft/s ²
h =	0.75	ft
h =	2.98	ft
μ =	0.7	
T _f =	1	Min.

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	0	2.86	3.01	3.39	3.84	4.24	4.50	4.56	4.43	4.12	3.69	3.20	2.78	2.62	2.78	3.20	3.69	4.12	4.43	4.56	4.50	4.24	3.84	3.39	3.01	0 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	2	2.89	3.04	3.41	3.86	4.25	4.49	4.55	4.41	4.10	3.67	3.19	2.78	2.62	2.78	3.19	3.67	4.10	4.41	4.55	4.49	4.25	3.86	3.41	3.04	2 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	4	2.91	3.06	3.43	3.87	4.25	4.49	4.54	4.40	4.09	3.66	3.19	2.80	2.64	2.80	3.19	3.66	4.09	4.40	4.54	4.49	4.25	3.87	3.43	3.06	4 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	6	2.93	3.08	3.45	3.88	4.26	4.49	4.53	4.40	4.10	3.68	3.24	2.89	2.75	2.89	3.24	3.68	4.10	4.40	4.53	4.49	4.26	3.88	3.45	3.08	6 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	8	2.95	3.10	3.47	3.90	4.27	4.49	4.55	4.43	4.15	3.72	3.38	3.07	2.95	3.07	3.38	3.77	4.15	4.43	4.55	4.49	4.27	3.90	3.47	3.10	8 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	9	2.97	3.11	3.48	3.91	4.28	4.50	4.56	4.44	4.18	3.83	3.47	3.19	3.08	3.19	3.47	3.83	4.18	4.44	4.56	4.50	4.28	3.91	3.48	3.11	9 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1																										

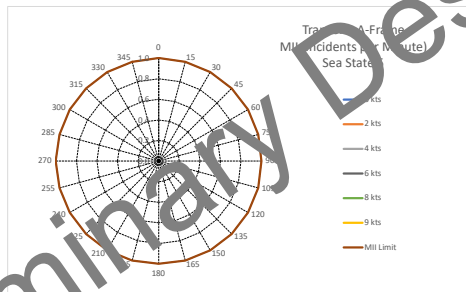
ZERO CROSSING PERIODS

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	0 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	2	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	2 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	4	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	8.00	8.00	4 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	6	7.00	7.00	8.00	8.00	8.00	8.00	9.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00	6 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	8	7.00	7.00	7.00	7.00	8.00	8.00	9.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	7.00	7.00	8 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	9	7.00	7.00	7.00	7.00	8.00	8.00	9.00	10.00	10.50	11.50	11.50	12.00	12.00	12.00	11.50	11.00	10.00	9.00	8.00	8.00	8.00	7.00	7.00	7.00	9 kts
FLD_S55	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1																										

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345							
Incidents of Tipping Mill Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345						
Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Chart Title
 MSI (Incidents per Minute)
 Sea State 5
 Transom, A-Frame
 Sea State 5



Preliminary Design

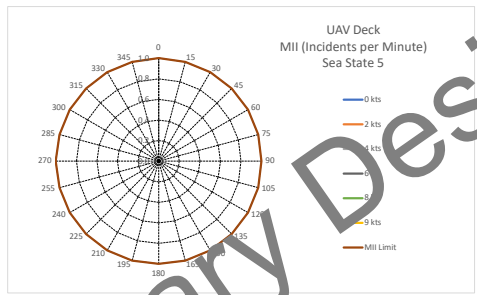
LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	0	2.06	2.30	2.84	3.42	3.87	4.12	4.15	3.96	3.55	2.99	2.34	1.76	1.50	1.76	2.34	2.99	3.55	3.96	4.15	4.12	3.87	3.42	2.84	2.30	2.06	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	2	2.11	2.35	2.89	3.46	3.91	4.16	4.18	3.98	3.57	3.00	2.35	1.76	1.50	1.76	2.35	3.00	3.57	3.98	4.18	4.16	3.91	3.46	2.89	2.35	2.11	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	4	2.15	2.38	2.92	3.49	3.94	4.19	4.21	4.00	3.59	3.02	2.37	1.79	1.54	1.79	2.37	3.02	3.59	4.00	4.21	4.19	3.94	3.49	2.92	2.38	2.15	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	6	2.18	2.41	2.95	3.52	3.97	4.21	4.24	4.04	3.64	3.10	2.51	2.00	1.78	2.00	2.51	3.10	3.64	4.04	4.24	4.21	3.97	3.52	2.95	2.41	2.18	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	8	2.22	2.45	2.98	3.55	4.00	4.25	4.29	4.12	3.76	3.28	2.77	2.36	2.19	2.36	2.77	3.28	3.76	4.12	4.29	4.25	4.00	3.55	2.98	2.45	2.22	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	9	2.24	2.47	3.00	3.57	4.02	4.27	4.32	4.16	3.83	3.38	2.91	2.53	2.39	2.53	2.91	3.38	3.83	4.16	4.32	4.27	4.02	3.57	3.00	2.47	2.24	
ZERO CROSSING PERIODS																																
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	0	10.00	10.00	10.00	10.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	2	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	2.00
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	4	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	4.00	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	6	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	12.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	8.00	6.00	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	8	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	9	8.00	8.00	8.00	8.00	8.50	9.00	9.50	10.00	10.00	10.00	11.00	11.00	11.50	11.50	11.00	10.00	10.00	10.00	9.00	9.00	8.50	8.00	8.00	8.00	8.00	
FLD_S55	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1																											

Incidents of Tipping MII Through the Given Duration of the Task	0	2	4	6	8	9	Mill Limit																										
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											

Incidents of Sliding MSI Through the Given Duration of the Task	0	2	4	6	8	9	Mill Limit																										
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																											

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 UAV Deck
 MII (Incidents per Minute)
 Sea State 5



Preliminary Design, @IDRIS

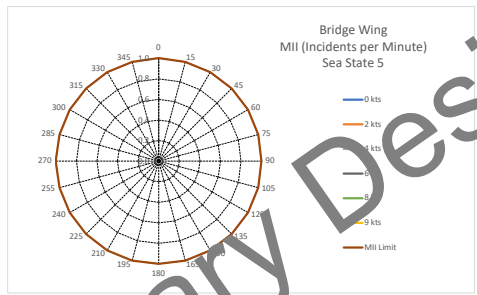
LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	0	1.73	2.00	2.61	3.24	3.75	4.06	4.15	4.01	3.66	3.13	2.50	1.93	1.68	1.53	2.50	3.13	3.66	4.01	4.15	4.06	3.75	3.24	2.61	2.00		
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	2	1.74	2.02	2.62	3.26	3.77	4.09	4.19	4.05	3.70	3.17	2.56	2.00	1.75	2.00	2.56	3.17	3.70	4.05	4.19	4.09	3.77	3.26	2.62	2.02		
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	4	1.74	2.02	2.63	3.27	3.79	4.11	4.22	4.09	3.75	3.23	2.63	2.09	1.86	2.09	2.63	3.23	3.75	4.09	4.22	4.11	3.79	3.27	2.63	2.02		
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	6	1.75	2.03	2.63	3.28	3.80	4.14	4.26	4.15	3.83	3.35	2.80	2.32	2.13	2.32	2.80	3.35	3.83	4.15	4.26	4.14	3.80	3.28	2.63	2.03		
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	8	1.77	2.04	2.65	3.30	3.83	4.17	4.32	4.25	3.98	3.56	3.08	2.69	2.53	2.69	3.08	3.56	3.98	4.25	4.32	4.17	3.83	3.30	2.65	2.04		
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	9	1.77	2.05	2.66	3.30	3.84	4.19	4.35	4.30	4.05	3.67	3.23	2.87	2.73	2.87	3.23	3.67	4.05	4.30	4.35	4.19	3.84	3.30	2.66	2.05		
ZERO CROSSING PERIODS																																
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	0	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	2	10.00	10.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	10.00	10.00	
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	4	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	10.00	10.00	
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	6	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	10.00	10.00	
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	8	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	9	8.00	8.00	8.00	8.50	9.00	9.00	9.50	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	8.50	8.00	8.00	8.00	
FLD_S55	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1																											

Incidents of Tipping MII Through the Given Duration of the Task	0	2	4	6	8	9	Mill Limit																													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														

Incidents of Sliding MSI Through the Given Duration of the Task	0	2	4	6	8	9	Mill Limit																													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 Bridge Wing
 MII (Incidents per Minute)
 Sea State 5



Preliminary Design, @IDR5

LATERAL FORCES

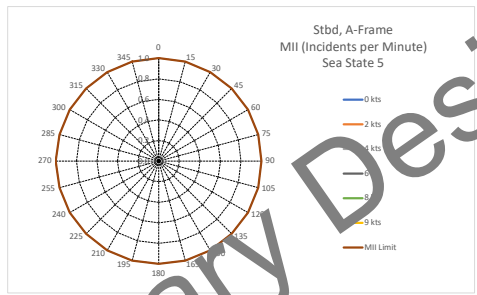
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	0	1.45	1.69	2.20	2.74	3.17	3.44	3.52	3.40	3.10	2.64	2.10	1.60	1.38	1.60	2.10	2.64	3.10	3.40	3.52	3.44	3.17	2.74	2.20	1.69	0 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	2	1.48	1.71	2.21	2.75	3.19	3.46	3.54	3.42	3.12	2.66	2.13	1.63	1.41	1.63	2.13	2.66	3.12	3.42	3.54	3.46	3.19	2.75	2.21	1.71	2 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	4	1.50	1.73	2.23	2.77	3.20	3.47	3.56	3.44	3.14	2.69	2.17	1.69	1.47	1.69	2.17	2.69	3.14	3.44	3.56	3.47	3.20	2.77	2.23	1.73	4 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	6	1.51	1.74	2.24	2.78	3.21	3.49	3.58	3.48	3.20	2.78	2.30	1.88	1.71	1.88	2.30	2.78	3.20	3.48	3.58	3.49	3.21	2.78	2.24	1.74	6 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	8	1.53	1.76	2.26	2.79	3.23	3.52	3.63	3.56	3.32	2.96	2.55	2.21	2.08	2.21	2.55	2.96	3.32	3.56	3.63	3.52	3.23	2.79	2.26	1.76	8 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	9	1.54	1.77	2.27	2.80	3.24	3.53	3.65	3.60	3.39	3.06	2.69	2.39	2.27	2.39	2.69	3.06	3.39	3.60	3.65	3.53	3.24	2.80	2.27	1.77	9 kts

ZERO CROSSING PERIODS																																
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	0	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	2	10.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	2 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	4	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	4 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	6	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	6 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	8	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	11.00	12.00	12.00	12.00	11.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	9	8.00	8.00	8.00	8.00	9.00	9.00	9.50	10.00	10.00	10.00	11.00	12.50	12.50	12.50	11.50	11.00	10.00	10.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	9 kts
FLD_S55	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1																											

Incidents of Tipping MII Through the Given Duration of the Task																																
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Incidents of Sliding MSI Through the Given Duration of the Task																																
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 Stbd, A-Frame
 MII (Incidents per Minute)
 Sea State 5



Preliminary Design, @IDR5

LATERAL FORCES

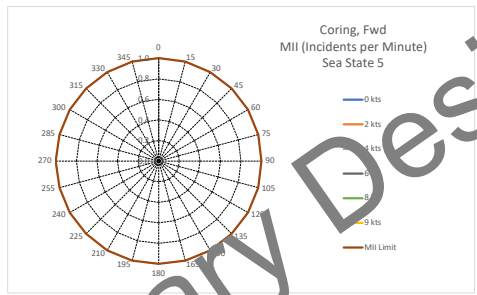
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	0	1.44	1.66	2.15	2.67	3.09	3.36	3.44	3.33	3.04	2.60	2.08	1.60	1.38	1.60	2.08	2.60	3.04	3.33	3.44	3.36	3.09	2.67	2.15	1.66	0 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	2	1.46	1.68	2.17	2.69	3.11	3.37	3.45	3.34	3.05	2.61	2.10	1.62	1.41	1.62	2.10	2.61	3.05	3.34	3.45	3.37	3.11	2.69	2.17	1.68	2 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	4	1.48	1.70	2.18	2.70	3.12	3.38	3.47	3.36	3.07	2.64	2.13	1.67	1.46	1.67	2.13	2.64	3.07	3.36	3.47	3.38	3.12	2.70	2.18	1.70	4 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	6	1.49	1.71	2.19	2.71	3.13	3.40	3.49	3.39	3.12	2.72	2.26	1.86	1.69	1.86	2.26	2.72	3.12	3.39	3.49	3.40	3.13	2.71	2.19	1.71	6 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	8	1.52	1.73	2.21	2.72	3.15	3.42	3.53	3.47	3.24	2.89	2.50	2.17	2.04	2.17	2.50	2.89	3.24	3.47	3.53	3.42	3.15	2.72	2.21	1.73	8 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	9	1.53	1.74	2.22	2.73	3.16	3.43	3.55	3.51	3.30	2.98	2.63	2.34	2.23	2.34	2.63	2.98	3.30	3.51	3.55	3.43	3.16	2.73	2.22	1.74	9 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1																										

ZERO CROSSING PERIODS																																			
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	0	10.00	10.00	10.00	10.00	10.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts	
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	2	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	4	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	4 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	6	8.00	8.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	11.00	11.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	6 kts	
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	8	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	11.00	12.00	12.00	12.00	11.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8 kts		
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	9	8.00	8.00	8.00	8.00	9.00	9.00	9.50	10.00	10.00	10.00	11.00	11.50	12.50	12.50	11.50	11.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	9 kts		
FLD_S55	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1																														

Incidents of Tipping MII Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Incidents of Sliding MSI Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 Coring, Fwd
 MII (Incidents per Minute)
 Sea State 5



Preliminary Design, @IDR5

LATERAL FORCES

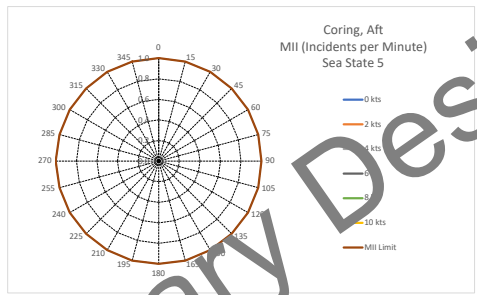
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	0	2.78	2.92	3.30	3.75	4.15	4.40	4.47	4.34	4.04	3.60	3.12	2.71	2.54	2.71	3.12	3.60	4.04	4.34	4.47	4.40	4.15	3.75	3.30	2.92	0 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	2	2.81	2.95	3.32	3.77	4.15	4.40	4.45	4.32	4.02	3.59	3.11	2.71	2.55	2.71	3.11	3.59	4.02	4.32	4.45	4.40	4.15	3.77	3.32	2.95	2 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	4	2.83	2.98	3.34	3.78	4.16	4.39	4.44	4.31	4.00	3.58	3.11	2.72	2.57	2.72	3.11	3.58	4.00	4.31	4.44	4.39	4.16	3.78	3.34	2.98	4 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	6	2.85	2.99	3.36	3.79	4.16	4.39	4.44	4.30	4.01	3.60	3.17	2.82	2.68	2.82	3.17	3.60	4.01	4.30	4.44	4.39	4.16	3.79	3.36	2.99	6 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	8	2.87	3.02	3.38	3.81	4.17	4.40	4.45	4.34	4.07	3.70	3.31	3.00	2.89	3.00	3.31	3.70	4.07	4.34	4.45	4.40	4.17	3.81	3.38	3.02	8 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	10	2.89	3.04	3.40	3.82	4.18	4.40	4.46	4.37	4.13	3.81	3.48	3.24	3.14	3.24	3.48	3.81	4.13	4.37	4.46	4.40	4.18	3.82	3.40	3.04	10 kts

ZERO CROSSING PERIODS																																
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	0 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	2	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	2 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	4	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	8.00	8.00	4 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	6	7.00	7.00	8.00	8.00	8.00	8.00	9.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00	7.00	6 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	8	7.00	7.00	7.00	8.00	8.00	8.00	9.00	10.00	10.00	11.00	11.00	11.00	12.00	11.00	11.00	11.00	11.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00	7.00	8 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1	10	7.00	7.00	7.00	7.00	8.00	8.00	9.00	10.00	11.00	12.00	12.00	13.00	13.00	12.00	12.00	12.00	11.00	10.00	10.00	9.00	8.00	8.00	7.00	7.00	7.00	10 kts
FLD_S55	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	13.1																											

Incidents of Tipping MII Through the Given Duration of the Task	0	2	4	6	8	10	Mill Limit																													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														

Incidents of Sliding MSI Through the Given Duration of the Task	0	2	4	6	8	10	Mill Limit																													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																														

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 Coring, Aft
 MII (Incidents per Minute)
 Coring, Aft
 Sea State 5



Preliminary Design, @IDR5

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	0	2.32	2.53	3.02	3.55	3.96	4.18	4.18	3.96	3.54	2.98	2.35	1.80	1.56	1.80	2.35	2.98	3.54	3.96	4.18	4.18	3.96	3.55	3.02	2.53	0 kts
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	2	2.38	2.59	3.08	3.60	4.01	4.21	4.20	3.96	3.53	2.96	2.32	1.76	1.51	1.76	2.32	2.96	3.53	3.96	4.20	4.21	4.01	3.60	3.08	2.59	2 kts
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	4	2.43	2.64	3.12	3.64	4.04	4.24	4.21	3.97	3.53	2.94	2.30	1.74	1.49	1.74	2.30	2.94	3.53	3.97	4.21	4.24	4.04	3.64	3.12	2.64	4 kts
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	6	2.47	2.68	3.16	3.68	4.07	4.26	4.23	3.99	3.55	2.99	2.40	1.90	1.68	1.90	2.40	2.99	3.55	3.99	4.23	4.26	4.07	3.68	3.16	2.68	6 kts
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	8	2.52	2.72	3.20	3.72	4.11	4.30	4.28	4.05	3.65	3.14	2.62	2.21	2.05	2.21	2.62	3.14	3.65	4.05	4.28	4.30	4.11	3.72	3.20	2.72	8 kts
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	9	2.54	2.75	3.22	3.74	4.13	4.32	4.30	4.09	3.70	3.22	2.74	2.37	2.23	2.37	2.74	3.22	3.70	4.09	4.30	4.32	4.13	3.74	3.22	2.75	9 kts

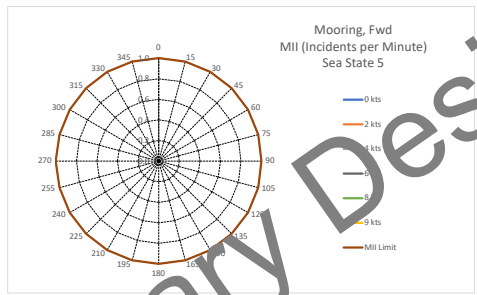
ZERO CROSSING PERIODS

FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	0	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	0 kts	
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	2	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	11.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	2 kts
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	4	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	9.00	11.00	9.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	4 kts	
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	6	7.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	6 kts	
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	8	7.00	7.00	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	10.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	8.00	8.00	7.00	8 kts	
FLD_S55	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	13.1	9	7.00	7.00	7.50	8.00	8.00	8.50	9.50	10.00	10.00	10.00	10.00	11.00	11.00	11.00	10.00	10.00	10.00	9.00	8.50	8.00	8.00	8.00	7.50	7.00	9 kts	

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts	
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 Mooring, Fwd
 MII (Incidents per Minute)
 Sea State 5



Preliminary Design, @IDR5

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	0	2.67	2.82	3.19	3.65	4.04	4.30	4.37	4.24	3.95	3.52	3.04	2.63	2.46	2.63	3.04	3.52	3.95	4.24	4.37	4.30	4.04	3.65	3.19	2.82	0 kts
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	2	2.69	2.84	3.22	3.66	4.05	4.30	4.36	4.23	3.92	3.50	3.03	2.63	2.47	2.63	3.03	3.50	3.92	4.23	4.36	4.30	4.05	3.66	3.22	2.84	2 kts
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	4	2.71	2.86	3.23	3.67	4.05	4.29	4.35	4.22	3.92	3.50	3.03	2.65	2.49	2.65	3.03	3.50	3.92	4.22	4.35	4.29	4.05	3.67	3.23	2.86	4 kts
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	6	2.73	2.88	3.25	3.68	4.06	4.29	4.35	4.22	3.93	3.53	3.10	2.75	2.61	2.75	3.10	3.53	3.93	4.22	4.35	4.29	4.06	3.68	3.25	2.88	6 kts
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	8	2.75	2.90	3.27	3.70	4.07	4.30	4.36	4.26	3.99	3.63	3.24	2.94	2.82	2.94	3.24	3.63	3.99	4.26	4.36	4.30	4.07	3.70	3.27	2.90	8 kts
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	9	2.76	2.91	3.28	3.71	4.08	4.30	4.37	4.28	4.03	3.69	3.33	3.06	2.96	3.06	3.33	3.69	4.03	4.28	4.37	4.30	4.08	3.71	3.28	2.91	9 kts

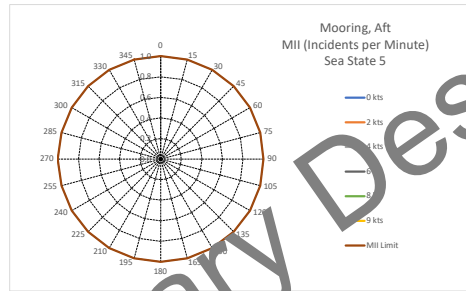
ZERO CROSSING PERIODS

FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	0	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	0 kts	
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	2	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	8.00	8.00	8.00	8.00	8.00	2 kts
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	4	8.00	8.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	8.00	8.00	4 kts	
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	6	7.00	7.00	8.00	8.00	8.00	8.00	9.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	8.00	7.00	6 kts		
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	8	7.00	7.00	7.00	8.00	8.00	8.00	9.00	10.00	10.00	11.00	11.00	11.00	12.00	11.00	11.00	11.00	10.00	10.00	9.00	8.00	8.00	8.00	8.00	7.00	7.00	8 kts		
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	9	7.00	7.00	7.00	8.00	8.00	8.00	9.00	10.00	10.50	11.50	11.50	12.00	12.50	11.00	11.50	11.50	10.50	10.00	9.00	8.00	8.00	8.00	8.00	7.00	7.00	9 kts		
FLD_S55	LATERAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1																													

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts	
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts	
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts	
	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts	
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts	
Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8 kts
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 5
 Mooring, Aft
 MII (Incidents per Minute)
 Mooring, Aft
 Sea State 5



Preliminary Design, @IDR5

Motion Induced Interruption Analysis

Table of Constants

g = 9.81 m/s²

User Input Cell Ranges

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	13.1	2	0.95	0.94	0.93	0.92	0.91	0.89	0.87	0.85	0.83	0.82	0.81	0.80	0.80	0.82	0.83	0.85	0.87	0.89	0.91	0.92	0.93	0.94	0.95	0.95	0 kts
FLD_S55	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	13.1	2	0.98	0.97	0.96	0.94	0.92	0.89	0.86	0.83	0.79	0.76	0.74	0.73	0.75	0.77	0.80	0.84	0.87	0.90	0.93	0.95	0.96	0.97	0.98	2 kts	
FLD_S55	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	13.1	4	1.00	0.99	0.98	0.96	0.93	0.90	0.85	0.80	0.76	0.71	0.68	0.66	0.66	0.68	0.71	0.75	0.80	0.85	0.89	0.93	0.96	0.98	1.00	1.00	4 kts
FLD_S55	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	13.1	6	1.02	1.01	1.00	0.98	0.95	0.90	0.85	0.78	0.72	0.66	0.61	0.56	0.56	0.60	0.64	0.70	0.76	0.83	0.89	0.94	0.98	1.00	1.02	1.02	6 kts
FLD_S55	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	13.1	8	1.04	1.04	1.02	1.00	0.96	0.91	0.84	0.77	0.69	0.61	0.56	0.52	0.51	0.54	0.59	0.65	0.73	0.81	0.88	0.94	0.99	1.02	1.04	1.04	8 kts
FLD_S55	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	13.1	9	1.06	1.05	1.03	1.01	0.97	0.91	0.84	0.76	0.68	0.61	0.53	0.49	0.48	0.51	0.56	0.63	0.72	0.80	0.88	0.95	1.00	1.03	1.05	1.06	9 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	2	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	2	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	2 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	4	0.09	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.08	0.08	0.09	0.09	4 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	6	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	6 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	8	0.10	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.10	8 kts
FLD_S55	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	13.1	9	0.10	0.10	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.10	0.10	0.10	9 kts

We	0	0.7620	0.7656	0.7753	0.7885	0.8012	0.8095	0.8114	0.8057	0.7928	0.7755	0.7582	0.7462	0.7425	0.7485	0.7620	0.7710	0.7951	0.8069	0.8123	0.8103	0.8019	0.7895	0.7762	0.7661									
We	2	0.7988	0.8012	0.8081	0.8162	0.8216	0.8220	0.8154	0.8005	0.7787	0.7524	0.7276	0.7100	0.7045	0.7125	0.7309	0.7550	0.7799	0.8012	0.8155	0.8224	0.8221	0.8167	0.8088	0.8018									
We	4	0.8339	0.8355	0.8396	0.8430	0.8430	0.8367	0.8227	0.7994	0.7677	0.7308	0.6957	0.6701	0.6614	0.6725	0.6985	0.7325	0.7677	0.7987	0.8218	0.8364	0.8432	0.8435	0.8401	0.8360									
We	6	0.8673	0.8680	0.8695	0.8695	0.8646	0.8529	0.8325	0.8023	0.7616	0.7124	0.6634	0.6255	0.6120	0.6278	0.6655	0.7076	0.7439	0.7728	0.8003	0.8311	0.8520	0.8644	0.8696	0.8700	0.8682								
We	8	0.8991	0.8989	0.8983	0.8947	0.8858	0.8698	0.8451	0.8095	0.7613	0.7017	0.6384	0.5867	0.5675	0.5877	0.6397	0.6961	0.7581	0.8063	0.8429	0.8684	0.8851	0.8945	0.8985	0.8991									
We	9	0.9139	0.9134	0.9117	0.9066	0.8960	0.8785	0.8524	0.8150	0.7642	0.7001	0.6306	0.5718	0.5493	0.5745	0.6211	0.6797	0.7600	0.8112	0.8496	0.8770	0.8952	0.9064	0.9119	0.9135									

Mu(MSI)	0	-0.7867	-0.7878	-0.7907	-0.7943	-0.7975	-0.7995	-0.7999	-0.7986	-0.7954	-0.7907	-0.7855	-0.7815	-0.7802	-0.7825	-0.7877	-0.7916	-0.7989	-0.8001	-0.7996	-0.7977	-0.7945	-0.7909	-0.7879										
Mu(MSI)	2	-0.7969	-0.7975	-0.7991	-0.8009	-0.8021	-0.8022	-0.8008	-0.7973	-0.7916	-0.7836	-0.7747	-0.7677	-0.7653	-0.7677	-0.7760	-0.7845	-0.7920	-0.7975	-0.8008	-0.8023	-0.8022	-0.8011	-0.7993	-0.7976									
Mu(MSI)	4	-0.8046	-0.8049	-0.8056	-0.8062	-0.8062	-0.8051	-0.8023	-0.7971	-0.7884	-0.7760	-0.7614	-0.7489	-0.7442	-0.7501	-0.7586	-0.7766	-0.7884	-0.7969	-0.8021	-0.8050	-0.8063	-0.8063	-0.8057	-0.8050									
Mu(MSI)	6	-0.8101	-0.8102	-0.8104	-0.8104	-0.8097	-0.8079	-0.8043	-0.7978	-0.7885	-0.7687	-0.7453	-0.7335	-0.7245	-0.7245	-0.7368	-0.7688	-0.7860	-0.7973	-0.8040	-0.8078	-0.8097	-0.8105	-0.8105	-0.8103									
Mu(MSI)	8	-0.8140	-0.8140	-0.8140	-0.8135	-0.8126	-0.8105	-0.8066	-0.7995	-0.7865	-0.7641	-0.7309	-0.6946	-0.6786	-0.6970	-0.7317	-0.7633	-0.7854	-0.7987	-0.8062	-0.8103	-0.8125	-0.8136	-0.8140	-0.8140									
Mu(MSI)	9	-0.8155	-0.8154	-0.8153	-0.8148	-0.8137	-0.8117	-0.8078	-0.8007	-0.7874	-0.7634	-0.7260	-0.6823	-0.6619	-0.6848	-0.7263	-0.7622	-0.7861	-0.7998	-0.8074	-0.8115	-0.8136	-0.8148	-0.8153	-0.8154									

Abs(s3dbldot)	0	0.5753	0.5744	0.5763	0.5790	0.5794	0.5748	0.5640	0.5475	0.5270	0.5057	0.4878	0.4771	0.4770	0.4879	0.5071	0.5305	0.5542	0.5747	0.5892	0.5966	0.5972	0.5928	0.5858	0.5793									
Abs(s3dbldot)	2	0.6237	0.6211	0.6185	0.6138	0.6037	0.5862	0.5607	0.5287	0.4932	0.4540	0.4111	0.4141	0.4118	0.4248	0.4500	0.4832	0.5200	0.5556	0.5861	0.6089	0.6229	0.6289	0.6291	0.6266									
Abs(s3dbldot)	4	0.6659	0.6621	0.6563	0.6459	0.6274	0.5987	0.5599	0.5132	0.4699	0.4159	0.3763	0.3522	0.3472	0.3625	0.3945	0.4383	0.4886	0.5395	0.5852	0.6219	0.6475	0.6620	0.6678	0.6682									
Abs(s3dbldot)	6	0.7065	0.7017	0.6933	0.6780	0.6521	0.6134	0.5623	0.5017	0.4300	0.3533	0.3025	0.2925	0.2845	0.3026	0.3423	0.3974	0.4616	0.5273	0.5874	0.6368	0.6728	0.6948	0.7053	0.7081									
Abs(s3dbldot)	8	0.7488	0.7431	0.7320	0.7118	0.6789	0.6309	0.5686	0.4959	0.4180	0.3291	0.2831	0.2435	0.2326	0.2532	0.2997	0.3650	0.4414	0.5203	0.5933	0.6544	0.6999	0.7291	0.7443	0.7496									
Abs(s3dbldot)	9	0.7708	0.7647	0.7522	0.7297	0.6933	0.6409	0.5736	0.4951	0.4118	0.3226	0.2671	0.2242	0.2120	0.2337	0.2832	0.3528	0.4347	0.5193	0.5980	0.6644	0.7143	0.7471	0.7646	0.7713									

x for ERF eq	0	-1.1127	-1.1116	-1.1008	-1.0868	-1.0780	-1.0811	-1.1012	-1.1366	-1.1861	-1.2426	-1.2949	-1.3288	-1.3324	-1.3025	-1.2497	-1.1883	-1.1299	-1.0834	-1.0534	-1.0409	-1.0446	-1.0606	-1.0825	-1.1021									
x for ERF eq	2	-0.9995	-1.0025	-1.0030	-1.0067	-1.0218	-1.0536	-1.1055	-1.1779	-1.2676	-1.3657	-1.4558	-1.5172	-1.5292	-1.4662	-1.3075	-1.2093	-1.1236	-1.0572	-1.0122	-0.9876	-0.9800	-0.9842	-0.9926										
x for ERF eq	4	-0.9093	-0.9146	-0.9223	-0.9381	-0.9696	-1.0234	-1.0311	-1.109	-1.3444	-1.4940	-1.6369	-1.7401	-1.7671	-1.7058	-1.5825	-1.4332	-1.2857	-1.1571	-1.0555	-0.9823	-0.9354	-0.9112	-0.										

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	13.1	0	0.81	0.83	0.85	0.88	0.90	0.90	0.88	0.85	0.80	0.76	0.72	0.70	0.69	0.71	0.74	0.78	0.82	0.85	0.88	0.88	0.87	0.85	0.82	0.81	0 kts
FLD_S55	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	13.1	2	0.89	0.91	0.93	0.94	0.94	0.92	0.89	0.84	0.78	0.72	0.67	0.65	0.64	0.66	0.69	0.74	0.80	0.85	0.88	0.90	0.91	0.90	0.89	0.89	2 kts
FLD_S55	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	13.1	4	0.97	0.98	0.99	0.99	0.98	0.95	0.89	0.82	0.75	0.68	0.62	0.59	0.58	0.60	0.65	0.71	0.77	0.84	0.89	0.93	0.95	0.95	0.95	0.96	4 kts
FLD_S55	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	13.1	6	1.03	1.04	1.05	1.04	1.01	0.96	0.90	0.81	0.72	0.64	0.58	0.53	0.53	0.55	0.60	0.67	0.75	0.83	0.90	0.95	0.98	1.00	1.01	1.02	6 kts
FLD_S55	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	13.1	8	1.08	1.09	1.09	1.08	1.04	0.98	0.90	0.80	0.70	0.61	0.53	0.48	0.47	0.50	0.56	0.64	0.73	0.82	0.90	0.97	1.01	1.04	1.06	1.07	8 kts
FLD_S55	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	13.1	9	1.10	1.11	1.11	1.09	1.05	0.99	0.90	0.80	0.69	0.59	0.51	0.46	0.45	0.48	0.54	0.63	0.72	0.82	0.90	0.97	1.02	1.06	1.08	1.09	9 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	0	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0 kts
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	2	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.07	0.07	0.07	2 kts
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	4	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	4 kts
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	6	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.09	6 kts
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	8	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.10	8 kts
FLD_S55	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	13.1	9	0.10	0.10	0.10	0.10	0.09	0.08	0.07	0.06	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.10	9 kts

We	0	0.7558	0.7610	0.7746	0.7914	0.8065	0.8171	0.8224	0.8208	0.8116	0.7947	0.7730	0.7526	0.7411	0.7439	0.7587	0.7774	0.7951	0.8076	0.8142	0.81	0.8078	0.7949	0.7777	0.7623								
We	2	0.7910	0.7944	0.8035	0.8142	0.8232	0.8285	0.8272	0.8186	0.8011	0.7745	0.7427	0.7141	0.6994	0.7059	0.7290	0.7578	0.7838	0.8042	0.8173	0.8221	0.8225	0.8159	0.8054	0.7953								
We	4	0.8238	0.8257	0.8311	0.8376	0.8418	0.8415	0.8350	0.8200	0.7940	0.7569	0.7133	0.6743	0.6555	0.6673	0.7013	0.7408	0.7761	0.8029	0.8209	0.8342	0.8389	0.8374	0.8321	0.8263								
We	6	0.8531	0.8543	0.8573	0.8599	0.8603	0.8560	0.8452	0.8242	0.7911	0.7435	0.6870	0.6354	0.6114	0.6130	0.6776	0.7284	0.7741	0.8065	0.8309	0.8468	0.8557	0.8588	0.8575	0.8544								
We	8	0.8800	0.8803	0.8815	0.8815	0.8790	0.8712	0.8567	0.8315	0.7921	0.7356	0.6659	0.6004	0.5713	0.5995	0.6596	0.7221	0.7725	0.8081	0.8408	0.8605	0.8729	0.8793	0.8811	0.8804								
We	9	0.8923	0.8926	0.8929	0.8918	0.8880	0.8791	0.8631	0.8365	0.7950	0.7347	0.6589	0.5861	0.5543	0.5988	0.6534	0.7211	0.7746	0.8126	0.8465	0.8676	0.8785	0.8893	0.8924	0.8926								
Mu(MSI)	0	-0.7847	-0.7864	-0.7905	-0.7950	-0.7988	-0.8011	-0.8023	-0.8019	-0.7999	-0.7959	-0.7900	-0.7836	-0.7797	-0.7808	-0.7813	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	-0.7811	
Mu(MSI)	2	-0.7950	-0.7958	-0.7981	-0.8005	-0.8024	-0.8035	-0.8032	-0.8015	-0.7975	-0.7904	-0.7803	-0.7694	-0.7631	-0.7629	-0.7633	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631	-0.7631
Mu(MSI)	4	-0.8026	-0.8029	-0.8040	-0.8053	-0.8060	-0.8060	-0.8048	-0.8018	-0.7957	-0.7851	-0.7691	-0.7511	-0.7410	-0.7427	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429	-0.7429
Mu(MSI)	6	-0.8079	-0.8081	-0.8086	-0.8090	-0.8091	-0.8084	-0.8066	-0.8027	-0.7950	-0.7806	-0.7573	-0.7290	-0.7131	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124	-0.7124
Mu(MSI)	8	-0.8118	-0.8119	-0.8120	-0.8120	-0.8117	-0.8107	-0.8085	-0.8041	-0.7952	-0.7777	-0.7466	-0.7051	-0.6818	-0.704	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
Mu(MSI)	9	-0.8133	-0.8134	-0.8134	-0.8133	-0.8128	-0.8117	-0.8095	-0.8051	-0.7960	-0.7774	-0.7428	-0.6941	-0.6666	-0.694	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697
Abs(s3dbldot)	0	0.4879	0.5027	0.5290	0.5575	0.5787	0.5865	0.5785	0.5554	0.5211	0.4821	0.4460	0.4101	0.4099	0.4198	0.4468	0.4829	0.5200	0.5504	0.5686	0.5716	0.5596	0.5363	0.5096	0.4904								
Abs(s3dbldot)	2	0.5628	0.5752	0.5939	0.6109	0.6181	0.6104	0.5859	0.5466	0.4973	0.4455	0.4000	0.366	0.3567	0.3697	0.4034	0.4493	0.4984	0.5424	0.5753	0.5934	0.5964	0.5871	0.5724	0.5519								
Abs(s3dbldot)	4	0.6354	0.6454	0.6572	0.6655	0.6574	0.6347	0.5945	0.5395	0.4752	0.4109	0.3533	0.3172	0.3041	0.3206	0.3620	0.4180	0.4791	0.5366	0.5837	0.6164	0.6336	0.6375	0.6341	0.6315								
Abs(s3dbldot)	6	0.7017	0.7098	0.7154	0.7124	0.6945	0.6584	0.6040	0.5347	0.4572	0.3807	0.3111	0.2562	0.2364	0.2526	0.3006	0.3532	0.4100	0.4633	0.5332	0.5935	0.6397	0.6698	0.6855	0.6918	0.6956							
Abs(s3dbldot)	8	0.7607	0.7668	0.7673	0.7565	0.7286	0.6808	0.6141	0.5323	0.4429	0.3559	0.282	0.22	0.2161	0.2399	0.2954	0.3694	0.4515	0.5326	0.6047	0.6628	0.7042	0.7299	0.7441	0.7529								
Abs(s3dbldot)	9	0.7862	0.7916	0.7901	0.7760	0.7440	0.6915	0.6195	0.5324	0.4378	0.3460	0.2684	0.2160	0.1995	0.2250	0.2834	0.3611	0.4476	0.5335	0.6110	0.6742	0.7204	0.7502	0.7674	0.7780								
x for ERF eq	0	-1.2967	-1.2599	-1.1943	-1.1260	-1.0762	-1.0556	-1.0677	-1.1128	-1.1700	-1.2400	-1.3200	-1.4022	-1.4982	-1.4700	-1.3899	-1.2913	-1.1991	-1.1299	-1.0909	-1.0852	-1.1119	-1.1658	-1.2327	-1.2857								
x for ERF eq	2	-1.1159	-1.0900	-1.0497	-1.0129	-0.9954	-1.0064	-1.0515	-1.1138	-1.2060	-1.3100	-1.4235	-1.5403	-1.6906	-1.6449	-1.5266	-1.3844	-1.2527	-1.1477	-1.0764	-1.0398	-1.0347	-1.0552	-1.0886	-1.1149								
x for ERF eq	4	-0.9653	-0.9472	-0.9249	-0.9114	-0.9195	-0.9578	-1.0319	-1.1277	-1.2470	-1.3822	-1.6799	-1.8482	-1.9194	-1.8458	-1.6726	-1.4771	-1.3009	-1.1599	-1.0578	-0.9930	-0.9648	-0.9548	-0.9632	-0.9705								
x for ERF eq	6	-0.8439	-0.8310	-0.8212	-0.8248	-0.8522	-0.9119	-1.0011	-1.1231	-1.2715	-1.5763	-1.8384	-2.0738	-2.1750	-2.0597	-1.8165	-1.5610	-1															

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	13.1	0	0.42	0.55	0.51	0.56	0.60	0.62	0.62	0.59	0.54	0.48	0.42	0.39	0.39	0.42	0.48	0.55	0.61	0.64	0.65	0.63	0.59	0.53	0.47	0.43	0 kts
FLD_S55	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	13.1	2	0.47	0.50	0.54	0.59	0.62	0.64	0.62	0.58	0.53	0.46	0.40	0.36	0.36	0.40	0.47	0.54	0.60	0.64	0.66	0.64	0.61	0.56	0.51	0.47	2 kts
FLD_S55	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	13.1	4	0.51	0.54	0.58	0.62	0.65	0.65	0.63	0.58	0.52	0.44	0.38	0.33	0.33	0.38	0.45	0.52	0.59	0.64	0.66	0.66	0.63	0.59	0.55	0.51	4 kts
FLD_S55	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	13.1	6	0.56	0.59	0.62	0.66	0.67	0.67	0.63	0.58	0.51	0.43	0.35	0.31	0.31	0.35	0.43	0.51	0.58	0.64	0.67	0.68	0.66	0.63	0.59	0.56	6 kts
FLD_S55	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	13.1	8	0.61	0.63	0.66	0.69	0.70	0.68	0.64	0.58	0.50	0.41	0.34	0.29	0.34	0.41	0.50	0.58	0.64	0.67	0.68	0.70	0.69	0.66	0.63	0.61	8 kts
FLD_S55	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	13.1	9	0.63	0.65	0.68	0.70	0.71	0.69	0.64	0.58	0.50	0.41	0.33	0.28	0.28	0.33	0.41	0.50	0.58	0.64	0.69	0.71	0.70	0.68	0.65	0.63	9 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	0	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0 kts	
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	2	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	2 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	4	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	4 kts
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	6	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	6 kts	
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	8	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	8 kts	
FLD_S55	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	13.1	9	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	9 kts	

We	0	0.7473	0.7523	0.7661	0.7789	0.7895	0.7965	0.8007	0.8014	0.7981	0.7878	0.7686	0.7425	0.7237	0.7274	0.7433	0.7599	0.7730	0.7823	0.7884	0.79	0.7924	0.7875	0.7757	0.7580						
We	2	0.7772	0.7803	0.7886	0.7964	0.8024	0.8057	0.8058	0.8026	0.7940	0.7764	0.7463	0.7082	0.6846	0.6948	0.7211	0.7462	0.7651	0.7790	0.7893	0.7955	0.8005	0.8002	0.7941	0.7834						
We	4	0.8040	0.8057	0.8104	0.8145	0.8170	0.8168	0.8136	0.8061	0.7923	0.7673	0.7263	0.6738	0.6440	0.6628	0.7014	0.7352	0.7599	0.7720	0.7811	0.8025	0.8103	0.8137	0.8126	0.8076						
We	6	0.8295	0.8301	0.8322	0.8333	0.8324	0.8291	0.8229	0.8117	0.7929	0.7614	0.7087	0.6408	0.6056	0.6362	0.6852	0.7272	0.7540	0.7690	0.7975	0.8110	0.8218	0.8289	0.8317	0.8306						
We	8	0.8536	0.8540	0.8537	0.8519	0.8485	0.8424	0.8328	0.8183	0.7956	0.7573	0.6938	0.6109	0.5697	0.6097	0.6719	0.7251	0.7575	0.7690	0.8047	0.8217	0.8351	0.8452	0.8515	0.8535						
We	9	0.8655	0.8655	0.8642	0.8614	0.8568	0.8494	0.8387	0.8226	0.7977	0.7566	0.6824	0.6061	0.5529	0.5984	0.6661	0.7211	0.7580	0.7888	0.8091	0.8276	0.8424	0.8541	0.8618	0.8650						
Mu(MSI)	0	-0.7819	-0.7835	-0.7879	-0.7917	-0.7946	-0.7963	-0.7974	-0.7975	-0.7967	-0.7941	-0.7887	-0.7802	-0.7732	-0.7747	-0.7815	-0.7900	-0.8000	-0.8090	-0.8150	-0.8180	-0.8193	-0.8198	-0.8200	-0.8200						
Mu(MSI)	2	-0.7912	-0.7921	-0.7943	-0.7963	-0.7978	-0.7986	-0.7986	-0.7978	-0.7957	-0.7910	-0.7815	-0.7669	-0.7562	-0.7620	-0.7722	-0.7811	-0.7915	-0.8000	-0.8075	-0.8125	-0.8155	-0.8165	-0.8165	-0.8165						
Mu(MSI)	4	-0.7982	-0.7986	-0.7997	-0.8006	-0.8011	-0.8011	-0.8004	-0.7987	-0.7953	-0.7883	-0.7743	-0.7508	-0.7343	-0.7456	-0.7539	-0.7777	-0.7860	-0.7915	-0.7952	-0.7978	-0.7996	-0.8004	-0.8002	-0.8002						
Mu(MSI)	6	-0.8037	-0.8038	-0.8042	-0.8044	-0.8043	-0.8036	-0.8024	-0.8000	-0.7954	-0.7865	-0.7671	-0.7324	-0.7089	-0.728	-0.7355	-0.7746	-0.7853	-0.7920	-0.7965	-0.7998	-0.8022	-0.8036	-0.8041	-0.8039						
Mu(MSI)	8	-0.8080	-0.8081	-0.8080	-0.8078	-0.8072	-0.8061	-0.8043	-0.8014	-0.7961	-0.7852	-0.7605	-0.7127	-0.6804	-0.711	-0.7	-0.724	-0.7852	-0.7931	-0.7983	-0.8021	-0.8048	-0.8066	-0.8077	-0.8080						
Mu(MSI)	9	-0.8099	-0.8099	-0.8097	-0.8093	-0.8085	-0.8073	-0.8055	-0.8023	-0.7966	-0.7850	-0.7579	-0.7025	-0.6654	-0.7038	-0.767	-0.7715	-0.7854	-0.7938	-0.7994	-0.8033	-0.8061	-0.8081	-0.8093	-0.8098						
Abs(s3db dot)	0	0.2508	0.2717	0.3088	0.3477	0.3785	0.3950	0.3946	0.3768	0.3444	0.3026	0.2602	0.2177	0.2230	0.2456	0.2875	0.3338	0.3734	0.3994	0.4081	0.3985	0.3722	0.3335	0.2907	0.2581						
Abs(s3db dot)	2	0.2889	0.3086	0.3418	0.3732	0.3993	0.4084	0.4000	0.3744	0.3345	0.2859	0.2380	0.203	0.1960	0.1965	0.2215	0.2677	0.3192	0.3647	0.3971	0.4126	0.4097	0.3900	0.3578	0.3212	0.2936					
Abs(s3db dot)	4	0.3291	0.3477	0.3771	0.4050	0.4223	0.4238	0.4075	0.3739	0.3264	0.2712	0.2175	0.1790	0.1711	0.1988	0.2494	0.3063	0.3578	0.3968	0.4192	0.4234	0.4105	0.3848	0.3544	0.3318						
Abs(s3db dot)	6	0.3715	0.3883	0.4137	0.4360	0.4465	0.4404	0.4163	0.3751	0.3264	0.2593	0.1982	0.1494	0.1495	0.2340	0.2958	0.3531	0.3986	0.4280	0.4395	0.4338	0.4149	0.3906	0.3624	0.3226						
Abs(s3db dot)	8	0.4142	0.4292	0.4504	0.4670	0.4710	0.4577	0.4262	0.3780	0.3170	0.2500	0.186	0.13	0.1319	0.1642	0.2218	0.2876	0.3502	0.4021	0.4386	0.4575	0.4591	0.4469	0.4285	0.4144						
Abs(s3db dot)	9	0.4349	0.4488	0.4681	0.4822	0.4831	0.4665	0.4315	0.3800	0.3159	0.2462	0.1808	0.1340	0.1245	0.1578	0.2168	0.2846	0.3497	0.4047	0.4447	0.4671	0.4722	0.4633	0.4474	0.4349						
x for ERF eq	0	-2.0261	-1.9350	-1.7853	-1.6471	-1.5476	-1.4968	-1.4955	-1.5451	-1.677	-1.818	-1.9584	-2.1266	-2.1751	-2.0670	-1.8815	-1.7054	-1.5737	-1.4941	-1.4666	-1.4900	-1.5641	-1.6864	-1.8435	-1.9862						
x for ERF eq	2	-1.8494	-1.7755	-1.6590	-1.5527	-1.4814	-1.4550	-1.4774	-1.5538	-1.6790	-1.813	-1.9504	-2.0898	-2.3554	-2.2131	-1.9797	-1.7652	-1.6052	-1.5026	-1.4542	-1.4571	-1.5081	-1.6200	-1.7229	-1.8273						
x for ERF eq	4	-1.6904	-1.6298	-1.5389	-1.4592	-1.4124	-1.4087	-1.4530	-1.5707	-1.7055	-1.853	-2.0000	-2.4704	-2.5607	-2.0770	-1.8197	-1.6299	-1.5039	-1.4350	-1.4179	-1.4688	-1.5152	-1.6051	-1.6796							
x for ERF eq	6	-1.5451	-1.4967	-1.4268	-1.3694	-1.3440	-1.3604	-1.438	-1.552	-1.6786	-1.8206	-2.0502	-2.7712	-2.5228	-2.1650	-1.8653	-1.6464	-1.4978	-1.4093	-1.3723	-1.3806	-1.4253	-1.4894	-1.5414							
x for ERF eq	8	-1.4161	-1.3774	-1.3251	-1.2864	-1.2788	-1.3127	-1.3943	-1.5141	-1.63	-1.763	-2.0215	-2.4005	-2.8220	-2.9774	-2.6613	-2.2398	-1.9012	-1.6552	-1.4855	-1.3781	-1.3229	-1.3125								

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	13.1	0	0.88	0.89	0.92	0.94	0.95	0.95	0.93	0.90	0.85	0.81	0.78	0.76	0.75	0.76	0.79	0.83	0.86	0.90	0.92	0.93	0.93	0.91	0.89	0.88	0 kts
FLD_S55	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	13.1	2	0.87	0.88	0.90	0.91	0.90	0.88	0.84	0.80	0.77	0.73	0.70	0.69	0.71	0.74	0.79	0.84	0.89	0.93	0.96	0.97	0.97	0.96	0.96	0.96	2 kts
FLD_S55	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	13.1	4	1.05	1.06	1.06	1.06	1.04	1.00	0.94	0.87	0.79	0.73	0.67	0.64	0.63	0.65	0.69	0.75	0.81	0.88	0.94	0.98	1.01	1.02	1.03	1.04	4 kts
FLD_S55	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	13.1	6	1.11	1.12	1.12	1.11	1.07	1.02	0.94	0.86	0.77	0.68	0.62	0.58	0.57	0.59	0.64	0.71	0.79	0.87	0.94	1.00	1.04	1.07	1.09	1.10	6 kts
FLD_S55	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	13.1	8	1.17	1.17	1.17	1.14	1.10	1.03	0.95	0.84	0.74	0.64	0.57	0.52	0.51	0.53	0.59	0.67	0.76	0.86	0.95	1.02	1.07	1.11	1.14	1.15	8 kts
FLD_S55	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	13.1	9	1.19	1.19	1.18	1.16	1.11	1.04	0.95	0.84	0.73	0.63	0.54	0.49	0.48	0.51	0.57	0.66	0.75	0.86	0.95	1.03	1.09	1.13	1.16	1.18	9 kts

VERTICAL ACCELERATION

FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	0	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0 kts
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	2	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	2 kts
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	4	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.09	4 kts
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	6	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.09	0.10	0.10	6 kts
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	8	0.10	0.11	0.11	0.10	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.10	0.10	8 kts
FLD_S55	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	13.1	9	0.11	0.11	0.11	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11	0.11	9 kts

We	0	0.7563	0.7618	0.7754	0.7925	0.8079	0.8190	0.8240	0.8219	0.8119	0.7940	0.7725	0.7527	0.7421	0.7456	0.7605	0.7801	0.7982	0.8113	0.8174	0.81	0.8089	0.7950	0.7779	0.7627
We	2	0.7922	0.7955	0.8046	0.8159	0.8253	0.8304	0.8290	0.8197	0.8009	0.7732	0.7416	0.7141	0.7004	0.7073	0.7302	0.7594	0.7867	0.8076	0.8208	0.8247	0.8170	0.8060	0.7963	0.7963
We	4	0.8249	0.8271	0.8328	0.8393	0.8439	0.8437	0.8368	0.8205	0.7931	0.7549	0.7115	0.6736	0.6562	0.6683	0.7018	0.7419	0.7786	0.8067	0.8262	0.8379	0.8416	0.8395	0.8337	0.8275
We	6	0.8548	0.8559	0.8592	0.8622	0.8628	0.8583	0.8468	0.8248	0.7896	0.7411	0.6843	0.6519	0.6307	0.6670	0.7283	0.7711	0.804	0.8394	0.8511	0.8486	0.8515	0.8479	0.8425	0.8362
We	8	0.8819	0.8824	0.8836	0.8842	0.8817	0.8739	0.8585	0.8322	0.7908	0.7325	0.6629	0.5992	0.5715	0.5983	0.6581	0.7231	0.7753	0.8163	0.8458	0.8551	0.8679	0.8625	0.8534	0.8425
We	9	0.8945	0.8947	0.8952	0.8946	0.8857	0.8818	0.8651	0.8372	0.7937	0.7315	0.6557	0.5850	0.5543	0.5865	0.6517	0.7171	0.7772	0.8203	0.8517	0.8725	0.8850	0.8806	0.8730	0.8648

Mu(MSI)	0	-0.7849	-0.7866	-0.7907	-0.7953	-0.7991	-0.8015	-0.8026	-0.8022	-0.8000	-0.7957	-0.7898	-0.7837	-0.7801	-0.7815	-0.7951	-0.8101	-0.8261	-0.8411	-0.8511	-0.8511	-0.8488	-0.8458	-0.8458	-0.8458
Mu(MSI)	2	-0.7953	-0.7941	-0.7983	-0.8009	-0.8029	-0.8039	-0.8036	-0.8017	-0.7974	-0.7901	-0.7799	-0.7694	-0.7635	-0.7655	-0.7857	-0.8061	-0.8238	-0.8398	-0.8511	-0.8511	-0.8488	-0.8458	-0.8458	-0.8458
Mu(MSI)	4	-0.8028	-0.8032	-0.8044	-0.8056	-0.8064	-0.8064	-0.8051	-0.8019	-0.7955	-0.7844	-0.7683	-0.7507	-0.7413	-0.7427	-0.7611	-0.7806	-0.7916	-0.7989	-0.8032	-0.8053	-0.8060	-0.8056	-0.8045	-0.8033
Mu(MSI)	6	-0.8082	-0.8084	-0.8089	-0.8094	-0.8095	-0.8088	-0.8069	-0.8028	-0.7946	-0.7797	-0.7560	-0.7384	-0.7315	-0.7321	-0.7504	-0.7702	-0.7905	-0.7997	-0.8048	-0.8076	-0.8089	-0.8093	-0.8089	-0.8085
Mu(MSI)	8	-0.8121	-0.8121	-0.8123	-0.8124	-0.8121	-0.8110	-0.8088	-0.8042	-0.7949	-0.7766	-0.7450	-0.7202	-0.7120	-0.7131	-0.7315	-0.7511	-0.7706	-0.7810	-0.8067	-0.8098	-0.8115	-0.8122	-0.8120	-0.8122
Mu(MSI)	9	-0.8136	-0.8136	-0.8136	-0.8136	-0.8132	-0.8121	-0.8098	-0.8052	-0.7956	-0.7762	-0.7410	-0.6932	-0.6667	-0.6631	-0.6815	-0.7011	-0.7212	-0.7419	-0.8019	-0.8077	-0.8109	-0.8125	-0.8134	-0.8136

Abs(s3dbldot)	0	0.5304	0.5440	0.5687	0.5954	0.6151	0.6215	0.6123	0.5883	0.5537	0.5149	0.4795	0.4440	0.4440	0.4530	0.4785	0.5136	0.5506	0.5820	0.6018	0.6069	0.5973	0.5762	0.5514	0.5332
Abs(s3dbldot)	2	0.6110	0.6219	0.6384	0.6529	0.6574	0.6469	0.6199	0.5782	0.5273	0.4749	0.4293	0.3971	0.3869	0.3981	0.4307	0.4762	0.5262	0.5726	0.6087	0.6307	0.6373	0.6314	0.6193	0.6103
Abs(s3dbldot)	4	0.6886	0.6970	0.7060	0.7090	0.6993	0.6727	0.6285	0.5700	0.5031	0.4368	0.3805	0.3421	0.3325	0.3441	0.3848	0.4412	0.5043	0.5654	0.6173	0.6552	0.6774	0.6857	0.6856	0.6847
Abs(s3dbldot)	6	0.7591	0.7653	0.7678	0.7608	0.7385	0.6975	0.6381	0.5641	0.4826	0.4034	0.3411	0.2915	0.2760	0.2953	0.3438	0.4107	0.4861	0.5610	0.6273	0.6798	0.7159	0.7367	0.7468	0.7529
Abs(s3dbldot)	8	0.8211	0.8254	0.8225	0.8073	0.7744	0.7210	0.6483	0.5609	0.4666	0.3759	0.3000	0.2488	0.2317	0.2547	0.3102	0.3862	0.4724	0.5593	0.6386	0.7038	0.7521	0.7835	0.8019	0.8131
Abs(s3dbldot)	9	0.8479	0.8513	0.8464	0.8279	0.7906	0.7321	0.6539	0.5607	0.4608	0.3650	0.2850	0.2311	0.2134	0.2381	0.2968	0.3767	0.4677	0.5600	0.6448	0.7156	0.7688	0.8045	0.8262	0.8394

x for ERF eq	0	-1.2055	-1.1737	-1.1153	-1.0538	-1.0091	-0.9917	-1.0054	-1.0498	-1.1100	-1.1806	-1.2406	-1.2772	-1.4105	-1.3856	-1.3198	-1.2225	-1.1352	-1.0673	-1.0274	-1.0188	-1.0404	-1.0877	-1.1471	-1.1947
x for ERF eq	2	-1.0259	-1.0046	-0.9706	-0.9399	-0.9274	-0.9423	-0.9894	-1.0608	-1.1494	-1.2396	-1.3147	-1.4475	-1.5566	-1.6039	-1.5630	-1.4543	-1.3200	-1.1917	-1.0871	-1.0132	-0.9720	-0.9614	-0.9757	-1.0028
x for ERF eq	4	-0.8773	-0.8630	-0.8463	-0.8386	-0.8515	-0.8937	-0.9705	-1.0748	-1.1948	-1.2963	-1.3714	-1.6075	-1.7671	-1.8345	-1.7675	-1.6058	-1.4176	-1.2435	-1.1009	-0.9949	-0.9249	-0.8748	-0.8777	-0.8821
x for ERF eq	6	-0.7578	-0.7486	-0.7437	-0.7525	-0.7846	-0.8483	-0.9306	-1.0330	-1.1437	-1.2156	-1.2710	-1.9964	-2.0935	-1.9885	-1.7573	-1.5075	-1.2861	-1.1077	-0.9735	-0.8791	-0.8197	-0.7877	-0.7738	-0.7663
x for ERF eq	8	-0.6629	-0.6571	-0.6605	-0.6806	-0.7266	-0.8057	-0.9276	-1.0604	-1.2094	-1.2944	-1.6000	-1.9236	-2.2291	-2.3617	-2.2055	-1.8939	-1.5814	-1.3169	-1.1075	-0.9494	-0.8359	-0.7599	-0.7137	-0.6881
x for ERF eq	9	-0.6245	-0.6200	-0.6262	-0.6504	-0.7014	-0.7815	-0.9158	-1.0604	-1.2231	-1.3239	-1.6329	-1.9895	-2.3366	-2.4892	-2.3033	-1.9510	-1.6099	-1.3262	-1.1039	-0.9363	-0.8154	-0.7332	-0.6819	-0.6524

FLD_S55	MSI	Stateroom	SHORTCRESTED	13.1	0	11.3973	12.0137	13.2584	14.6147	15.6782	16.0962	15.9500	14.7051	13.1320	11.3037	9.6507	8.4136	7.9305	8.2983	9.4424	11.0877	12.8187	14.3142	15.2357	15.4443	14.9256	13.8664	12.5619	11.6011	0 kts
FLD_S5																														

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	13.1	0	0.34	0.35	0.40	0.48	0.54	0.59	0.62	0.61	0.58	0.52	0.45	0.38	0.33	0.32	0.36	0.42	0.48	0.53	0.56	0.56	0.54	0.49	0.43	0.37	0 kts
FLD_S55	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	13.1	2	0.36	0.37	0.43	0.49	0.56	0.60	0.62	0.61	0.57	0.51	0.44	0.36	0.31	0.30	0.34	0.40	0.47	0.53	0.56	0.57	0.55	0.51	0.45	0.40	2 kts
FLD_S55	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	13.1	4	0.40	0.41	0.45	0.52	0.58	0.62	0.63	0.61	0.57	0.50	0.42	0.34	0.29	0.28	0.32	0.39	0.46	0.52	0.57	0.58	0.57	0.53	0.48	0.43	4 kts
FLD_S55	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	13.1	6	0.44	0.45	0.49	0.55	0.60	0.63	0.64	0.62	0.57	0.49	0.41	0.33	0.27	0.26	0.30	0.38	0.46	0.52	0.57	0.59	0.59	0.56	0.52	0.47	6 kts
FLD_S55	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	13.1	8	0.48	0.49	0.53	0.58	0.63	0.65	0.65	0.62	0.56	0.49	0.40	0.32	0.26	0.25	0.29	0.37	0.45	0.53	0.58	0.61	0.61	0.59	0.55	0.51	8 kts
FLD_S55	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	13.1	9	0.51	0.51	0.55	0.60	0.64	0.66	0.66	0.62	0.56	0.49	0.40	0.32	0.26	0.25	0.29	0.37	0.45	0.53	0.58	0.62	0.62	0.61	0.57	0.53	9 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	0	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0 kts	
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	2	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.03	2 kts	
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	4	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03	4 kts
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	6	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	6 kts	
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	8	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	8 kts	
FLD_S55	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	13.1	9	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	9 kts	

We	0	0.7436	0.7578	0.7753	0.7836	0.7853	0.7837	0.7798	0.7737	0.7656	0.7548	0.7396	0.7217	0.7140	0.7325	0.7615	0.7805	0.7892	0.7913	0.7895	0.78	0.7797	0.7710	0.7596	0.7478
We	2	0.7680	0.7772	0.7890	0.7925	0.7909	0.7861	0.7792	0.7700	0.7583	0.7417	0.7196	0.6928	0.6783	0.7024	0.7456	0.7741	0.7880	0.7934	0.7951	0.7922	0.7908	0.7859	0.7787	0.7710
We	4	0.7895	0.7952	0.8019	0.8026	0.7983	0.7905	0.7809	0.7685	0.7527	0.7308	0.7007	0.6632	0.6406	0.624	0.7308	0.7690	0.7889	0.7938	0.8043	0.8037	0.8015	0.7971	0.7916	
We	6	0.8123	0.8153	0.8177	0.8147	0.8075	0.7973	0.7849	0.7692	0.7494	0.7223	0.6849	0.6368	0.6046	0.6175	0.7163	0.7658	0.7847	0.8117	0.8163	0.8184	0.8185	0.8170	0.8141	
We	8	0.8372	0.8376	0.8363	0.8299	0.8195	0.8065	0.7911	0.7722	0.7481	0.7155	0.6699	0.6114	0.5690	0.6113	0.7017	0.7501	0.7935	0.8220	0.8290	0.8338	0.8365	0.8378	0.8375	
We	9	0.8499	0.8498	0.8469	0.8388	0.8267	0.8124	0.7953	0.7744	0.7481	0.7124	0.6631	0.5992	0.5513	0.5960	0.6947	0.7421	0.7953	0.8151	0.8274	0.8360	0.8419	0.8461	0.8485	0.8498

Mu(MSI)	0	-0.7806	-0.7854	-0.7907	-0.7930	-0.7934	-0.7930	-0.7919	-0.7902	-0.7878	-0.7844	-0.7792	-0.7725	-0.7698	-0.7767	-0.7851	-0.7911	-0.7950	-0.7946	-0.7936	-0.7919	-0.7894	-0.7859	-0.7820
Mu(MSI)	2	-0.7885	-0.7912	-0.7944	-0.7953	-0.7949	-0.7937	-0.7918	-0.7891	-0.7855	-0.7799	-0.7716	-0.7601	-0.7531	-0.7644	-0.7813	-0.7931	-0.7942	-0.7956	-0.7960	-0.7958	-0.7940	-0.7916	-0.7884
Mu(MSI)	4	-0.7945	-0.7960	-0.7977	-0.7979	-0.7968	-0.7948	-0.7923	-0.7887	-0.7837	-0.7759	-0.7636	-0.7452	-0.7322	-0.7501	-0.7828	-0.7944	-0.7969	-0.7979	-0.7982	-0.7981	-0.7976	-0.7965	-0.7951
Mu(MSI)	6	-0.8001	-0.8007	-0.8013	-0.8006	-0.7990	-0.7965	-0.7933	-0.7889	-0.7826	-0.7727	-0.7563	-0.7299	-0.7082	-0.732	-0.7933	-0.7877	-0.7950	-0.7983	-0.8000	-0.8010	-0.8014	-0.8014	-0.8011
Mu(MSI)	8	-0.8052	-0.8053	-0.8050	-0.8038	-0.8017	-0.7988	-0.7950	-0.7898	-0.7822	-0.7699	-0.7488	-0.7131	-0.6798	-0.713	-0.793	-0.7865	-0.7956	-0.7998	-0.8022	-0.8036	-0.8045	-0.8051	-0.8051
Mu(MSI)	9	-0.8074	-0.8074	-0.8069	-0.8055	-0.8032	-0.8001	-0.7961	-0.7904	-0.7821	-0.7687	-0.7451	-0.7042	-0.6639	-0.7018	-0.793	-0.7862	-0.7961	-0.8007	-0.8033	-0.8050	-0.8060	-0.8068	-0.8072

Abs(s3dbldot)	0	0.2004	0.2111	0.2495	0.2973	0.3404	0.3708	0.3841	0.3784	0.3544	0.3149	0.2657	0.2167	0.1862	0.1867	0.2165	0.2599	0.3023	0.3345	0.3514	0.3510	0.3334	0.3015	0.2611	0.2221
Abs(s3dbldot)	2	0.2234	0.2325	0.2683	0.3131	0.3524	0.3786	0.3870	0.3765	0.3475	0.3033	0.2501	0.196	0.1656	0.1667	0.1999	0.2478	0.2954	0.3331	0.3556	0.3607	0.3480	0.3202	0.2826	0.2451
Abs(s3dbldot)	4	0.2506	0.2580	0.2908	0.3321	0.3675	0.3890	0.3924	0.3765	0.3422	0.2931	0.2355	0.1813	0.1445	0.1485	0.1852	0.2377	0.2905	0.3339	0.3622	0.3729	0.3654	0.3410	0.3075	0.2719
Abs(s3dbldot)	6	0.2843	0.2905	0.3196	0.3563	0.3867	0.4028	0.4003	0.3785	0.3387	0.2848	0.2168	0.1307	0.1339	0.1377	0.2303	0.2877	0.3365	0.3706	0.3872	0.3854	0.3669	0.3365	0.3041	
Abs(s3dbldot)	8	0.3232	0.3284	0.3535	0.3849	0.4094	0.4192	0.4104	0.3824	0.3370	0.2786	0.214	0.1365	0.1186	0.1225	0.1649	0.2248	0.2866	0.3405	0.3805	0.4031	0.4072	0.3943	0.3690	0.3406
Abs(s3dbldot)	9	0.3436	0.3486	0.3719	0.4006	0.4220	0.4285	0.4164	0.3852	0.3370	0.2763	0.2105	0.1508	0.1133	0.1175	0.1610	0.2227	0.2866	0.3431	0.3859	0.4115	0.4187	0.4086	0.3859	0.3598

x for ERF eq	0	-2.2729	-2.2048	-2.0099	-1.8137	-1.6657	-1.5740	-1.5384	-1.5588	-1.60	-1.70	-1.80	-1.90	-2.00	-2.05	-2.3812	-2.3598	-2.1740	-1.9618	-1.7918	-1.6806	-1.6282	-1.6317	-1.6919	-1.8073	-1.9724	-2.1577
x for ERF eq	2	-2.1351	-2.0851	-1.9217	-1.7518	-1.6242	-1.5496	-1.5304	-1.5696	-1.67	-1.8048	-1.9336	-2.0485	-2.1531	-2.2741	-2.0183	-1.8179	-1.6838	-1.6117	-1.5970	-1.6381	-1.7317	-1.8721	-2.0323			
x for ERF eq	4	-1.9954	-1.9600	-1.8259	-1.6814	-1.5739	-1.5172	-1.5141	-1.582	-1.718	-1.8384	-1.9742	-2.0746	-2.1700	-2.0668	-1.8353	-1.6781	-1.5870	-1.5572	-1.6503	-1.7683	-1.9055					
x for ERF eq	6	-1.8444	-1.8194	-1.7143	-1.5982	-1.5132	-1.4752	-1.478	-1.518	-1.683	-1.8111	-1.9133	-1.9988	-2.0177	-1.8307	-1.6538	-1.5040	-1.4444	-1.4660	-1.5570	-1.5069	-1.5108	-1.5641	-1.6585	-1.7703		
x for ERF eq	8	-1.6927	-1.6750	-1.5956	-1.5063	-1.4446	-1.4256	-1.4586	-1.504	-1.647	-1.8418	-1.9791	-2.0768	-2.0944	-1.9762	-1.8262	-1.6333	-1.4870	-1.4692	-1.5230	-1.4566	-1.4432	-1.4769	-1.5483	-1.6354		
x for ERF eq	9	-1.6205	-1.6048	-1.5357	-1.4588	-1.4080	-1.39	-1.4403	-1.539	-1.7049	-1.9540	-2.3080	-2.7728	-3.1838	-3.0494	-2.5596	-2.1446	-1.8459	-1.6389	-1.5048	-1.4308	-1.4094	-1.4340	-1.4949	-1.5706		

FLD_S55	MSI	Stbd, A-Frame	SHORTCRESTED	13.1	0	1.1539	1.3792	2.2375	3.4864	4.7673	5.8126	6.739	7.5994	8.3998	9.0998	9.7498	10.3498	10.9098	11.4298	11.9
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VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	13.1	0	0.32	0.34	0.39	0.47	0.54	0.59	0.61	0.61	0.57	0.52	0.44	0.37	0.32	0.31	0.34	0.40	0.47	0.51	0.54	0.54	0.52	0.47	0.41	0.36	0 kts
FLD_S55	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	13.1	2	0.34	0.36	0.41	0.48	0.55	0.59	0.62	0.61	0.57	0.51	0.43	0.35	0.30	0.28	0.32	0.39	0.46	0.51	0.54	0.55	0.53	0.49	0.43	0.37	2 kts
FLD_S55	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	13.1	4	0.37	0.38	0.43	0.50	0.56	0.61	0.62	0.61	0.56	0.50	0.42	0.34	0.28	0.26	0.30	0.37	0.45	0.51	0.55	0.56	0.55	0.51	0.45	0.40	4 kts
FLD_S55	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	13.1	6	0.40	0.42	0.47	0.53	0.59	0.62	0.63	0.61	0.56	0.49	0.40	0.32	0.26	0.25	0.29	0.36	0.44	0.51	0.55	0.57	0.56	0.53	0.48	0.43	6 kts
FLD_S55	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	13.1	8	0.45	0.46	0.50	0.56	0.61	0.64	0.64	0.61	0.56	0.48	0.40	0.31	0.25	0.24	0.28	0.36	0.44	0.51	0.55	0.59	0.59	0.56	0.52	0.47	8 kts
FLD_S55	VERTICAL	VELOCITY	Coring, Fwd	SHORTCRESTED	13.1	9	0.47	0.48	0.52	0.58	0.62	0.65	0.65	0.62	0.56	0.48	0.39	0.31	0.25	0.24	0.28	0.36	0.44	0.51	0.57	0.59	0.60	0.58	0.54	0.49	9 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	0	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0 kts	
FLD_S55	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	2	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	2 kts	
FLD_S55	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	4	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	4 kts	
FLD_S55	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	6	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	6 kts	
FLD_S55	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	8	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	8 kts
FLD_S55	VERTICAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	13.1	9	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	9 kts

We	0	0.7440	0.7580	0.7745	0.7819	0.7832	0.7816	0.7780	0.7725	0.7651	0.7548	0.7399	0.7230	0.7120	0.7274	0.7556	0.7753	0.7837	0.7863	0.7854	0.78	0.7762	0.7686	0.7579	0.7467
We	2	0.7661	0.7767	0.7879	0.7909	0.7887	0.7842	0.7770	0.7685	0.7574	0.7416	0.7199	0.6933	0.6772	0.6899	0.7411	0.7699	0.7834	0.7889	0.7903	0.7884	0.7868	0.7824	0.7759	0.7678
We	4	0.7846	0.7919	0.7994	0.7998	0.7952	0.7878	0.7787	0.7667	0.7513	0.7305	0.7014	0.6644	0.6402	0.6300	0.7291	0.7667	0.7856	0.7899	0.7911	0.7911	0.7967	0.7928	0.7867	
We	6	0.8061	0.8108	0.8138	0.8111	0.8043	0.7944	0.7825	0.7673	0.7478	0.7215	0.6847	0.6403	0.6206	0.6160	0.7160	0.7643	0.7811	0.7844	0.8071	0.8111	0.8125	0.8130	0.8114	0.8079
We	8	0.8319	0.8330	0.8328	0.8263	0.8166	0.8041	0.7886	0.7700	0.7464	0.7146	0.6694	0.6124	0.5866	0.6103	0.7025	0.7501	0.7606	0.7633	0.8171	0.8238	0.8284	0.8310	0.8321	0.8317
We	9	0.8454	0.8458	0.8436	0.8353	0.8238	0.8097	0.7926	0.7723	0.7462	0.7113	0.6624	0.5996	0.5502	0.6957	0.7611	0.7926	0.8111	0.8227	0.8308	0.8366	0.8405	0.8431	0.8443	

Mu(MSI)	0	-0.7807	-0.7854	-0.7904	-0.7925	-0.7929	-0.7924	-0.7914	-0.7899	-0.7876	-0.7844	-0.7793	-0.7736	-0.7685	-0.7728	-0.7951	-0.7961	-0.7961	-0.7937	-0.7935	-0.7925	-0.7909	-0.7887	-0.7854	-0.7817
Mu(MSI)	2	-0.7879	-0.7911	-0.7941	-0.7949	-0.7943	-0.7931	-0.7912	-0.7886	-0.7852	-0.7799	-0.7717	-0.7603	-0.7525	-0.7528	-0.7797	-0.7811	-0.7929	-0.7944	-0.7948	-0.7945	-0.7939	-0.7926	-0.7908	-0.7884
Mu(MSI)	4	-0.7933	-0.7952	-0.7971	-0.7972	-0.7960	-0.7941	-0.7916	-0.7881	-0.7832	-0.7758	-0.7640	-0.7459	-0.7319	-0.7488	-0.7553	-0.7888	-0.7935	-0.7957	-0.7967	-0.7970	-0.7970	-0.7964	-0.7954	-0.7938
Mu(MSI)	6	-0.7987	-0.7997	-0.8004	-0.7998	-0.7982	-0.7958	-0.7927	-0.7883	-0.7820	-0.7724	-0.7562	-0.7302	-0.7073	-0.7321	-0.7402	-0.7874	-0.7942	-0.7973	-0.7989	-0.7998	-0.8001	-0.8002	-0.7999	-0.7991
Mu(MSI)	8	-0.8042	-0.8044	-0.8044	-0.8031	-0.8010	-0.7982	-0.7943	-0.7891	-0.7816	-0.7696	-0.7485	-0.7138	-0.6795	-0.7111	-0.7107	-0.7665	-0.7948	-0.7990	-0.8011	-0.8026	-0.8035	-0.8040	-0.8042	-0.8011
Mu(MSI)	9	-0.8066	-0.8067	-0.8063	-0.8048	-0.8026	-0.7995	-0.7954	-0.7898	-0.7815	-0.7682	-0.7448	-0.7045	-0.6634	-0.7011	-0.7114	-0.7661	-0.7954	-0.7998	-0.8023	-0.8040	-0.8051	-0.8058	-0.8063	-0.8065

Abs(s3dbldot)	0	0.1916	0.2041	0.2434	0.2914	0.3345	0.3652	0.3791	0.3741	0.3508	0.3117	0.2624	0.2101	0.1796	0.1776	0.2062	0.2491	0.2909	0.3225	0.3389	0.3381	0.3206	0.2890	0.2494	0.2116
Abs(s3dbldot)	2	0.2087	0.2203	0.2583	0.3045	0.3449	0.3719	0.3814	0.3718	0.3437	0.3001	0.2471	0.1941	0.1599	0.1586	0.1905	0.2378	0.2845	0.3210	0.3423	0.3462	0.3326	0.3043	0.2665	0.2291
Abs(s3dbldot)	4	0.2302	0.2406	0.2769	0.3208	0.3582	0.3813	0.3862	0.3715	0.3383	0.2900	0.2331	0.1781	0.1415	0.1415	0.1772	0.2288	0.2803	0.3219	0.3484	0.3571	0.3479	0.3228	0.2871	0.2507
Abs(s3dbldot)	6	0.2600	0.2694	0.3026	0.3429	0.3760	0.3942	0.3936	0.3733	0.3347	0.2817	0.2211	0.1638	0.1264	0.1278	0.1667	0.2223	0.2781	0.3247	0.3565	0.3705	0.3662	0.3455	0.3127	0.2792
Abs(s3dbldot)	8	0.2972	0.3055	0.3351	0.3702	0.3978	0.4101	0.4034	0.3770	0.3329	0.2755	0.2111	0.1490	0.1149	0.1174	0.1589	0.2178	0.2777	0.3291	0.3663	0.3859	0.3873	0.3717	0.3401	0.3142
Abs(s3dbldot)	9	0.3177	0.3257	0.3532	0.3856	0.4102	0.4192	0.4092	0.3797	0.3329	0.2732	0.2080	0.1483	0.1100	0.1129	0.1556	0.2161	0.2780	0.3319	0.3718	0.3944	0.3985	0.3858	0.3648	0.3332

x for ERF eq	0	-2.2111	-2.2412	-2.0374	-1.8367	-1.6860	-1.5918	-1.5538	-1.5720	-1.75	-1.98	-1.5088	-2.2668	-2.4222	-2.4188	-2.2319	-2.0116	-1.8373	-1.7237	-1.6704	-1.6753	-1.7371	-1.8551	-2.0235	-2.2112	
x for ERF eq	2	-2.2105	-2.1440	-1.9634	-1.7828	-1.6490	-1.5702	-1.5478	-1.5818	-1.6790	-1.82	-1.6076	-2.3538	-2.5891	-2.5713	-2.3299	-2.0658	-1.8617	-1.7267	-1.6562	-1.6446	-1.6996	-1.7893	-1.9379	-2.1078	
x for ERF eq	4	-2.0910	-2.0382	-1.8807	-1.7206	-1.6037	-1.5407	-1.5332	-1.6111	-1.7080	-1.8377	-1.9506	-2.4879	-2.7721	-2.7305	-2.4200	-2.1101	-1.8761	-1.7206	-1.6324	-1.6049	-1.6331	-1.7157	-1.8454	-1.9969	
x for ERF eq	6	-1.9452	-1.9039	-1.7758	-1.6418	-1.5456	-1.5005	-1.5005	-1.5841	-1.7026	-1.8239	-1.9239	-2.2269	-2.6176	-2.9570	-2.8827	-2.4991	-2.1433	-1.8830	-1.7071	-1.6017	-1.5576	-1.5695	-1.6325	-1.7398	-1.8665
x for ERF eq	8	-1.7859	-1.7555	-1.6555	-1.5504	-1.4773	-1.4511	-1.4790	-1.5581	-1.6944	-1.8194	-1.9550	-2.2929	-2.7333	-3.1295	-3.0240	-2.5651	-2.1679	-1.8832	-1.6885	-1.5665	-1.5065	-1.5004	-1.5437	-1.6271	-1.7260
x for ERF eq	9	-1.7076	-1.6804	-1.5932	-1.5017	-1.4404	-1.42	-1.4610	-1.5581	-1.7198	-1.9676	-2.3221	-2.7900	-3.2174	-3.0942	-2.5958	-2.1774	-1.8807	-1.6771	-1.5475	-1.4795	-1.4653	-1.4988	-1.5703	-1.6562	

FLD_S55	MSI	Coring, Fwd	SHORTCRESTED	13.1	0	1.0161	1.2310
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VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	ROV	SHORTCRESTED	13.1	0	0.63	0.64	0.67	0.69	0.72	0.74	0.75	0.74	0.72	0.68	0.64	0.59	0.55	0.53	0.54	0.56	0.59	0.62	0.64	0.65	0.65	0.64	0.63	0.62	0 mts
FLD_S55	VERTICAL	VELOCITY	ROV	SHORTCRESTED	13.1	2	0.64	0.65	0.68	0.71	0.73	0.75	0.75	0.73	0.70	0.65	0.60	0.54	0.50	0.48	0.49	0.52	0.56	0.60	0.63	0.65	0.65	0.65	0.64	0.64	2 mts
FLD_S55	VERTICAL	VELOCITY	ROV	SHORTCRESTED	13.1	4	0.65	0.66	0.69	0.72	0.74	0.75	0.75	0.72	0.68	0.62	0.56	0.50	0.46	0.44	0.45	0.49	0.54	0.59	0.63	0.65	0.66	0.66	0.65	0.64	4 mts
FLD_S55	VERTICAL	VELOCITY	ROV	SHORTCRESTED	13.1	6	0.66	0.68	0.70	0.73	0.75	0.76	0.75	0.71	0.66	0.60	0.52	0.46	0.41	0.39	0.41	0.46	0.52	0.58	0.63	0.66	0.67	0.67	0.66	0.66	6 mts
FLD_S55	VERTICAL	VELOCITY	ROV	SHORTCRESTED	13.1	8	0.68	0.70	0.73	0.75	0.77	0.77	0.75	0.71	0.64	0.57	0.49	0.42	0.37	0.36	0.38	0.44	0.51	0.57	0.63	0.67	0.69	0.69	0.68	0.68	8 mts
FLD_S55	VERTICAL	VELOCITY	ROV	SHORTCRESTED	13.1	9	0.70	0.71	0.74	0.77	0.78	0.78	0.75	0.70	0.64	0.56	0.48	0.41	0.36	0.34	0.37	0.43	0.50	0.57	0.63	0.67	0.70	0.70	0.70	0.69	9 mts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	13.1	0	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0 mts
FLD_S55	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	13.1	2	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	2 mts
FLD_S55	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	13.1	4	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.05	4 mts
FLD_S55	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	13.1	6	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	6 mts
FLD_S55	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	13.1	8	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	8 mts
FLD_S55	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	13.1	9	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	9 mts

We	0	0.7607	0.7660	0.7758	0.7862	0.7939	0.7976	0.7968	0.7923	0.7844	0.7728	0.7592	0.7458	0.7366	0.7367	0.7475	0.7636	0.7780	0.7882	0.7924	0.79	0.7873	0.7794	0.7700	0.7625
We	2	0.7953	0.7990	0.8051	0.8087	0.8093	0.8058	0.7979	0.7858	0.7705	0.7514	0.7310	0.7118	0.7001	0.7028	0.7216	0.7472	0.7697	0.7861	0.7969	0.8044	0.8043	0.8032	0.7992	0.7958
We	4	0.8275	0.8301	0.8322	0.8311	0.8253	0.8153	0.8007	0.7820	0.7585	0.7314	0.7016	0.6745	0.6583	0.6656	0.6962	0.7333	0.7646	0.7876	0.8066	0.8149	0.8219	0.8261	0.8270	0.8264
We	6	0.8582	0.8594	0.8580	0.8523	0.8419	0.8267	0.8066	0.7813	0.7502	0.7132	0.6725	0.6337	0.6108	0.6233	0.6702	0.7222	0.7694	0.8024	0.8134	0.8285	0.8402	0.8487	0.8575	0.8564
We	8	0.8880	0.8877	0.8837	0.8741	0.8594	0.8396	0.8145	0.7836	0.7461	0.7005	0.6489	0.5981	0.5670	0.5878	0.6511	0.7141	0.7655	0.8024	0.8249	0.8441	0.8593	0.8712	0.8797	0.8853
We	9	0.9023	0.9013	0.8959	0.8845	0.8680	0.8465	0.8166	0.7764	0.7249	0.6640	0.5983	0.5485	0.5170	0.5446	0.6146	0.6746	0.7246	0.7683	0.8044	0.8311	0.8520	0.8687	0.8823	0.8925

Mu(MSI)	0	-0.7863	-0.7879	-0.7908	-0.7937	-0.7957	-0.7966	-0.7964	-0.7953	-0.7932	-0.7899	-0.7858	-0.7813	-0.7781	-0.7758	-0.7751	-0.7724	-0.7711	-0.7690	-0.7681	-0.7642	-0.7633	-0.7602	-0.7593	-0.7582
Mu(MSI)	2	-0.7961	-0.7970	-0.7984	-0.7993	-0.7994	-0.7986	-0.7967	-0.7936	-0.7892	-0.7833	-0.7760	-0.7684	-0.7634	-0.7616	-0.7604	-0.7574	-0.7561	-0.7540	-0.7531	-0.7492	-0.7483	-0.7452	-0.7443	-0.7432
Mu(MSI)	4	-0.8033	-0.8038	-0.8042	-0.8040	-0.8029	-0.8008	-0.7974	-0.7926	-0.7856	-0.7762	-0.7641	-0.7511	-0.7425	-0.7406	-0.7391	-0.7361	-0.7348	-0.7327	-0.7318	-0.7279	-0.7270	-0.7239	-0.7230	-0.7219
Mu(MSI)	6	-0.8088	-0.8090	-0.8087	-0.8078	-0.8060	-0.8032	-0.7988	-0.7924	-0.7829	-0.7690	-0.7501	-0.7279	-0.7126	-0.7121	-0.7099	-0.7077	-0.7062	-0.7041	-0.7022	-0.6983	-0.6974	-0.6943	-0.6934	-0.6923
Mu(MSI)	8	-0.8128	-0.8128	-0.8123	-0.8111	-0.8089	-0.8056	-0.8006	-0.7930	-0.7814	-0.7636	-0.7371	-0.7034	-0.6782	-0.694	-0.7006	-0.7078	-0.7091	-0.7028	-0.6964	-0.6899	-0.6817	-0.6712	-0.6607	-0.6502
Mu(MSI)	9	-0.8144	-0.8143	-0.8137	-0.8124	-0.8102	-0.8068	-0.8017	-0.7937	-0.7814	-0.7618	-0.7319	-0.6918	-0.6611	-0.6823	-0.7046	-0.7104	-0.7086	-0.7033	-0.6969	-0.6904	-0.6819	-0.6714	-0.6609	-0.6504

Abs(s3dbldot)	0	0.3812	0.3924	0.4119	0.4354	0.4573	0.4728	0.4779	0.4708	0.4512	0.4212	0.3854	0.3454	0.3234	0.3125	0.3196	0.3399	0.3650	0.3878	0.4034	0.4098	0.4073	0.3983	0.3875	0.3802
Abs(s3dbldot)	2	0.4057	0.4173	0.4359	0.4562	0.4724	0.4802	0.4763	0.4593	0.4301	0.3915	0.3488	0.309	0.2818	0.2718	0.2842	0.3120	0.3458	0.3772	0.4012	0.4151	0.4192	0.4155	0.4084	0.4034
Abs(s3dbldot)	4	0.4271	0.4393	0.4576	0.4760	0.4880	0.4890	0.4766	0.4501	0.4111	0.3636	0.3138	0.2695	0.2337	0.2300	0.2514	0.2875	0.3301	0.3702	0.4021	0.4230	0.4326	0.4328	0.4281	0.4241
Abs(s3dbldot)	6	0.4519	0.4645	0.4823	0.4986	0.5062	0.5007	0.4799	0.4439	0.3953	0.3388	0.2811	0.2321	0.2004	0.1963	0.2217	0.2665	0.3180	0.3666	0.4064	0.4341	0.4492	0.4533	0.4509	0.4483
Abs(s3dbldot)	8	0.4832	0.4955	0.5120	0.5251	0.5278	0.5154	0.4864	0.4414	0.3840	0.3195	0.255	0.2022	0.1691	0.1678	0.1992	0.2514	0.3105	0.3668	0.4141	0.4488	0.4699	0.4787	0.4795	0.4787
Abs(s3dbldot)	9	0.5016	0.5137	0.5290	0.5402	0.5401	0.5242	0.4911	0.4420	0.3804	0.3123	0.2459	0.1905	0.1569	0.1568	0.1910	0.2462	0.3087	0.3686	0.4195	0.4577	0.4819	0.4934	0.4961	0.4966

x for ERF eq	0	-1.5607	-1.5252	-1.4651	-1.3977	-1.3396	-1.3011	-1.2897	-1.3089	-1.3507	-1.4071	-1.4664	-1.5296	-1.5964	-1.6654	-1.7396	-1.7967	-1.7627	-1.6828	-1.5948	-1.5221	-1.4766	-1.4596	-1.4694	-1.4991	-1.5357	-1.5620
x for ERF eq	2	-1.4686	-1.4358	-1.3847	-1.3332	-1.2948	-1.2791	-1.2928	-1.3408	-1.4022	-1.4686	-1.5392	-1.6026	-1.6684	-1.7349	-1.7991	-1.7621	-1.6821	-1.5941	-1.5221	-1.4766	-1.4596	-1.4694	-1.4991	-1.5357	-1.5620	
x for ERF eq	4	-1.3945	-1.3626	-1.3173	-1.2750	-1.2509	-1.2903	-1.3446	-1.4084	-1.4771	-1.5504	-1.6273	-1.7028	-1.7757	-1.8457	-1.8991	-1.8502	-1.7702	-1.6822	-1.5942	-1.5222	-1.4767	-1.4597	-1.4695	-1.4992	-1.5358	-1.5621
x for ERF eq	6	-1.3196	-1.2894	-1.2490	-1.2152	-1.2033	-1.2223	-1.2911	-1.3608	-1.4317	-1.5042	-1.5791	-1.6552	-1.7324	-1.8004	-1.8491	-1.8002	-1.7202	-1.6322	-1.5442	-1.4762	-1.4592	-1.4690	-1.4991	-1.5357	-1.5620	
x for ERF eq	8	-1.2369	-1.2095	-1.1753	-1.1508	-1.1506	-1.1811	-1.2508	-1.3205	-1.3902	-1.4600	-1.5300	-1.6000	-1.6700	-1.7400	-1.8000	-1.7500	-1.6700	-1.5820	-1.4940	-1.4260	-1.4090	-1.4188	-1.4489	-1.4855	-1.5118	
x for ERF eq	9	-1.1924	-1.1668	-1.1362	-1.1168	-1.1224	-1.1611	-1.2308	-1.3005	-1.3702	-1.4400	-1.5100	-1.5800	-1.6500	-1.7200	-1.7800	-1.7300	-1.6500	-1.5620	-1.4740	-1.4060	-1.3890	-1.3988	-1.4289	-1.4655	-1.4918	

FLD_S55	MSI	ROV	SHORTCREST
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VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	13.1	0	0.96	0.97	0.99	1.01	1.02	1.01	0.99	0.95	0.91	0.87	0.84	0.82	0.81	0.82	0.85	0.88	0.92	0.95	0.98	0.99	0.99	0.98	0.97	0.96	0 kts
FLD_S55	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	13.1	2	1.05	1.06	1.07	1.07	1.06	1.04	0.99	0.94	0.88	0.83	0.78	0.76	0.75	0.76	0.79	0.84	0.89	0.94	0.99	1.02	1.04	1.05	1.05	1.05	2 kts
FLD_S55	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	13.1	4	1.14	1.14	1.14	1.13	1.11	1.06	1.00	0.92	0.85	0.78	0.72	0.69	0.68	0.70	0.73	0.79	0.86	0.93	0.99	1.04	1.08	1.10	1.12	1.13	4 kts
FLD_S55	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	13.1	6	1.21	1.21	1.20	1.18	1.14	1.08	1.00	0.91	0.81	0.73	0.66	0.62	0.61	0.63	0.68	0.74	0.83	0.91	1.00	1.06	1.12	1.16	1.18	1.20	6 kts
FLD_S55	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	13.1	8	1.26	1.26	1.25	1.22	1.17	1.10	1.00	0.89	0.78	0.69	0.61	0.56	0.55	0.57	0.62	0.70	0.80	0.90	1.00	1.08	1.15	1.20	1.23	1.25	8 kts
FLD_S55	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	13.1	9	1.28	1.28	1.27	1.24	1.18	1.10	1.00	0.89	0.77	0.67	0.58	0.53	0.52	0.54	0.60	0.69	0.79	0.90	1.00	1.09	1.16	1.21	1.25	1.27	9 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S55	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	13.1	0	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0 kts	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	13.1	2	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.09	2 kts	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	13.1	4	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10	4 kts	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	13.1	6	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.07	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.10	6 kts	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	13.1	8	0.11	0.11	0.11	0.11	0.11	0.10	0.09	0.08	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.11	0.11	8 kts	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	13.1	9	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.11	0.11	0.12	9 kts

We	0	0.7571	0.7622	0.7762	0.7937	0.8095	0.8206	0.8255	0.8226	0.8115	0.7928	0.7711	0.7525	0.7430	0.7476	0.7630	0.7830	0.8018	0.8152	0.8209	0.8190	0.8102	0.7954	0.7778	0.7630								
We	2	0.7929	0.7964	0.8059	0.8172	0.8271	0.8319	0.8304	0.8199	0.7998	0.7713	0.7398	0.7135	0.7016	0.7090	0.7322	0.7619	0.7901	0.8115	0.8246	0.8222	0.8265	0.8182	0.8068	0.7970								
We	4	0.8263	0.8285	0.8343	0.8412	0.8458	0.8455	0.8380	0.8208	0.7918	0.7526	0.7094	0.6733	0.6570	0.6691	0.7024	0.7434	0.7817	0.8115	0.8244	0.8211	0.8218	0.8144	0.8044	0.7949	0.7827							
We	6	0.8562	0.8577	0.8611	0.8644	0.8651	0.8604	0.8481	0.8248	0.7880	0.7378	0.6815	0.6333	0.6125	0.6068	0.6765	0.7294	0.7741	0.8047	0.8202	0.8147	0.8102	0.8022	0.7922	0.7822	0.7722							
We	8	0.8836	0.8844	0.8859	0.8866	0.8840	0.8760	0.8599	0.8322	0.7892	0.7292	0.6598	0.5981	0.5714	0.5694	0.6564	0.7288	0.7778	0.8044	0.8111	0.8071	0.8010	0.7956	0.7904	0.7854	0.7804							
We	9	0.8964	0.8968	0.8976	0.8972	0.8934	0.8840	0.8667	0.8374	0.7920	0.7282	0.6525	0.5840	0.5543	0.5472	0.6499	0.7288	0.7788	0.8044	0.8111	0.8071	0.8010	0.7956	0.7904	0.7854	0.7804							

Mu(MSI)	0	-0.7851	-0.7867	-0.7909	-0.7956	-0.7994	-0.8019	-0.8023	-0.8023	-0.7999	-0.7954	-0.7894	-0.7836	-0.7804	-0.7837	-0.7965	-0.8198	-0.8407	-0.8577	-0.8707	-0.8797	-0.8807	-0.8820	-0.8816	-0.7996	-0.7961	-0.7914	-0.7870				
Mu(MSI)	2	-0.7954	-0.7963	-0.7986	-0.8012	-0.8032	-0.8042	-0.8039	-0.8018	-0.7972	-0.7895	-0.7793	-0.7691	-0.7640	-0.7723	-0.7965	-0.8311	-0.8647	-0.8924	-0.9147	-0.9299	-0.9307	-0.9287	-0.9248	-0.9182	-0.9109	-0.9022	-0.8922	-0.8814	-0.8698	-0.7965	
Mu(MSI)	4	-0.8031	-0.8035	-0.8046	-0.8059	-0.8067	-0.8067	-0.8053	-0.8019	-0.7951	-0.7836	-0.7654	-0.7505	-0.7418	-0.7482	-0.7844	-0.8304	-0.8724	-0.9099	-0.9404	-0.9624	-0.9704	-0.9654	-0.9584	-0.9494	-0.9394	-0.9284	-0.9164	-0.9034	-0.8894	-0.8744	-0.8584
Mu(MSI)	6	-0.8085	-0.8087	-0.8092	-0.8097	-0.8098	-0.8091	-0.8071	-0.8028	-0.7942	-0.7786	-0.7547	-0.7277	-0.7139	-0.7202	-0.7711	-0.8374	-0.9047	-0.9724	-1.0407	-1.1094	-1.1781	-1.2468	-1.3154	-1.3841	-1.4528	-1.5214	-1.5901	-1.6588	-1.7274	-1.7961	-1.8648
Mu(MSI)	8	-0.8123	-0.8124	-0.8126	-0.8127	-0.8123	-0.8090	-0.8042	-0.7945	-0.7754	-0.7433	-0.7034	-0.6820	-0.7020	-0.7377	-0.8047	-0.8824	-0.9601	-1.0378	-1.1154	-1.1929	-1.2704	-1.3479	-1.4254	-1.5029	-1.5804	-1.6579	-1.7354	-1.8129	-1.8904	-1.9679	-2.0454
Mu(MSI)	9	-0.8138	-0.8138	-0.8139	-0.8138	-0.8134	-0.8123	-0.8100	-0.8052	-0.7952	-0.7750	-0.7392	-0.6924	-0.6667	-0.6924	-0.7777	-0.8624	-0.9471	-1.0318	-1.1164	-1.2011	-1.2858	-1.3704	-1.4551	-1.5398	-1.6244	-1.7091	-1.7938	-1.8784	-1.9631	-2.0478	-2.1324

Abs(s3dbldot)	0	0.5788	0.5905	0.6130	0.6380	0.6560	0.6609	0.6504	0.6255	0.5906	0.5521	0.5175	0.4871	0.4829	0.4913	0.5156	0.5496	0.5867	0.6192	0.6411	0.6489	0.6418	0.6231	0.5999	0.5824								
Abs(s3dbldot)	2	0.6657	0.6745	0.6882	0.6999	0.7015	0.6880	0.6581	0.6144	0.5615	0.5082	0.4627	0.4311	0.4109	0.4308	0.4625	0.5077	0.5590	0.6083	0.6484	0.6746	0.6855	0.6832	0.6737	0.6657								
Abs(s3dbldot)	4	0.7490	0.7550	0.7606	0.7599	0.7478	0.7153	0.6669	0.6045	0.5346	0.4664	0.4092	0.3704	0.3529	0.3712	0.4112	0.4683	0.5341	0.5997	0.6572	0.7011	0.7289	0.7419	0.7451	0.7458								
Abs(s3dbldot)	6	0.8241	0.8278	0.8264	0.8151	0.7878	0.7415	0.6766	0.5975	0.5117	0.4295	0.3541	0.3149	0.2984	0.3170	0.3653	0.4336	0.5130	0.5937	0.6672	0.7270	0.7700	0.7965	0.8055	0.8183								
Abs(s3dbldot)	8	0.8898	0.8914	0.8845	0.8643	0.8257	0.7662	0.6871	0.5935	0.4939	0.3991	0.3201	0.2678	0.2495	0.2716	0.3273	0.4056	0.4969	0.5910	0.6784	0.7522	0.8080	0.8459	0.8687	0.8821								
Abs(s3dbldot)	9	0.9178	0.9187	0.9097	0.8860	0.8428	0.7778	0.6928	0.5930	0.4874	0.3871	0.3042	0.2494	0.2293	0.2511	0.3121	0.3947	0.4912	0.5912	0.6847	0.7643	0.8256	0.8679	0.8942	0.9096								

x for ERF eq	0	-1.1102	-1.0843	-1.0331	-0.9780	-0.9383	-0.9241	-0.9390	-0.9828	-1.1172	-1.2577	-1.4200	-1.5986	-1.7886	-1.9859	-2.1910	-2.4043	-2.6254	-2.8541	-3.0904	-3.3344	-3.5854	-3.8434	-4.1084	-4.3804	-4.6584	-4.9424	-5.2324	-5.5284	-5.8304	-6.1384
x for ERF eq	2	-0.9324	-0.9159	-0.8884	-0.8657	-0.8560	-0.8748	-0.9238	-1.0008	-1.1093	-1.2577	-1.4461	-1.6645	-1.9129	-2.1913	-2.4997	-2.8281	-3.1765	-3.5449	-3.9333	-4.3417	-4.7701	-5.2185	-5.6869	-6.1753	-6.6837	-7.2121	-7.7605	-8.3289	-8.9173	-9.5257
x for ERF eq	4	-0.7853	-0.7755	-0.7647	-0.7625	-0.7803	-0.8263	-0.9057	-1.0088	-1.1372	-1.2916	-1.4730	-1.6814	-1.9168	-2.1792	-2.4676	-2.7820	-3.1234	-3.4918	-3.8872	-4.3106	-4.7620	-5.23								

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	13.1	0	0.87	0.86	0.85	0.84	0.83	0.81	0.79	0.77	0.75	0.74	0.73	0.74	0.77	0.80	0.82	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.87	0.85
FLD_S55	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	13.1	2	0.89	0.89	0.87	0.86	0.84	0.82	0.79	0.75	0.72	0.69	0.67	0.66	0.68	0.70	0.74	0.78	0.82	0.85	0.88	0.90	0.91	0.91	0.91	0.90	0.87
FLD_S55	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	13.1	4	0.91	0.90	0.89	0.87	0.85	0.82	0.78	0.73	0.68	0.64	0.61	0.60	0.61	0.64	0.68	0.73	0.78	0.83	0.87	0.90	0.92	0.93	0.93	0.92	0.89
FLD_S55	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	13.1	6	0.93	0.92	0.90	0.89	0.86	0.82	0.77	0.71	0.65	0.60	0.55	0.53	0.54	0.58	0.63	0.69	0.75	0.81	0.87	0.90	0.93	0.94	0.94	0.94	0.94
FLD_S55	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	13.1	8	0.95	0.94	0.93	0.91	0.88	0.83	0.77	0.70	0.63	0.56	0.50	0.48	0.48	0.52	0.58	0.65	0.73	0.80	0.86	0.91	0.95	0.96	0.97	0.96	0.96
FLD_S55	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	13.1	9	0.96	0.95	0.94	0.92	0.88	0.84	0.77	0.70	0.62	0.54	0.48	0.45	0.46	0.49	0.56	0.63	0.71	0.79	0.86	0.92	0.95	0.97	0.98	0.97	0.97

VERTICAL ACCELERATION

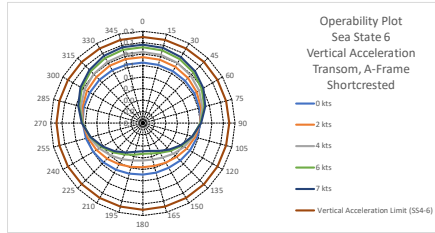
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	2	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.07	0.07	
FLD_S55	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	4	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08
FLD_S55	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	6	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
FLD_S55	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	8	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09
FLD_S55	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	13.1	9	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.09

We	0	0.7620	0.7647	0.7742	0.7865	0.7981	0.8056	0.8067	0.8008	0.7880	0.7713	0.7543	0.7434	0.7417	0.7492	0.7631	0.7791	0.7937	0.8043	0.8092	0.80	0.8006	0.7891	0.7763	0.7663	0.7580	0.7515	0.7462	0.7418	0.7383	0.7356	0.7335	0.7318	0.7303	0.7291	0.7281	0.7273	0.7267	0.7262	0.7258	0.7255	0.7253	0.7251	0.7250	0.7249	0.7248	0.7247	0.7246	0.7245	0.7244	0.7243	0.7242	0.7241	0.7240	0.7239	0.7238	0.7237	0.7236	0.7235	0.7234	0.7233	0.7232	0.7231	0.7230	0.7229	0.7228	0.7227	0.7226	0.7225	0.7224	0.7223	0.7222	0.7221	0.7220	0.7219	0.7218	0.7217	0.7216	0.7215	0.7214	0.7213	0.7212	0.7211	0.7210	0.7209	0.7208	0.7207	0.7206	0.7205	0.7204	0.7203	0.7202	0.7201	0.7200	0.7199	0.7198	0.7197	0.7196	0.7195	0.7194	0.7193	0.7192	0.7191	0.7190	0.7189	0.7188	0.7187	0.7186	0.7185	0.7184	0.7183	0.7182	0.7181	0.7180	0.7179	0.7178	0.7177	0.7176	0.7175	0.7174	0.7173	0.7172	0.7171	0.7170	0.7169	0.7168	0.7167	0.7166	0.7165	0.7164	0.7163	0.7162	0.7161	0.7160	0.7159	0.7158	0.7157	0.7156	0.7155	0.7154	0.7153	0.7152	0.7151	0.7150	0.7149	0.7148	0.7147	0.7146	0.7145	0.7144	0.7143	0.7142	0.7141	0.7140	0.7139	0.7138	0.7137	0.7136	0.7135	0.7134	0.7133	0.7132	0.7131	0.7130	0.7129	0.7128	0.7127	0.7126	0.7125	0.7124	0.7123	0.7122	0.7121	0.7120	0.7119	0.7118	0.7117	0.7116	0.7115	0.7114	0.7113	0.7112	0.7111	0.7110	0.7109	0.7108	0.7107	0.7106	0.7105	0.7104	0.7103	0.7102	0.7101	0.7100	0.7099	0.7098	0.7097	0.7096	0.7095	0.7094	0.7093	0.7092	0.7091	0.7090	0.7089	0.7088	0.7087	0.7086	0.7085	0.7084	0.7083	0.7082	0.7081	0.7080	0.7079	0.7078	0.7077	0.7076	0.7075	0.7074	0.7073	0.7072	0.7071	0.7070	0.7069	0.7068	0.7067	0.7066	0.7065	0.7064	0.7063	0.7062	0.7061	0.7060	0.7059	0.7058	0.7057	0.7056	0.7055	0.7054	0.7053	0.7052	0.7051	0.7050	0.7049	0.7048	0.7047	0.7046	0.7045	0.7044	0.7043	0.7042	0.7041	0.7040	0.7039	0.7038	0.7037	0.7036	0.7035	0.7034	0.7033	0.7032	0.7031	0.7030	0.7029	0.7028	0.7027	0.7026	0.7025	0.7024	0.7023	0.7022	0.7021	0.7020	0.7019	0.7018	0.7017	0.7016	0.7015	0.7014	0.7013	0.7012	0.7011	0.7010	0.7009	0.7008	0.7007	0.7006	0.7005	0.7004	0.7003	0.7002	0.7001	0.7000	0.6999	0.6998	0.6997	0.6996	0.6995	0.6994	0.6993	0.6992	0.6991	0.6990	0.6989	0.6988	0.6987	0.6986	0.6985	0.6984	0.6983	0.6982	0.6981	0.6980	0.6979	0.6978	0.6977	0.6976	0.6975	0.6974	0.6973	0.6972	0.6971	0.6970	0.6969	0.6968	0.6967	0.6966	0.6965	0.6964	0.6963	0.6962	0.6961	0.6960	0.6959	0.6958	0.6957	0.6956	0.6955	0.6954	0.6953	0.6952	0.6951	0.6950	0.6949	0.6948	0.6947	0.6946	0.6945	0.6944	0.6943	0.6942	0.6941	0.6940	0.6939	0.6938	0.6937	0.6936	0.6935	0.6934	0.6933	0.6932	0.6931	0.6930	0.6929	0.6928	0.6927	0.6926	0.6925	0.6924	0.6923	0.6922	0.6921	0.6920	0.6919	0.6918	0.6917	0.6916	0.6915	0.6914	0.6913	0.6912	0.6911	0.6910	0.6909	0.6908	0.6907	0.6906	0.6905	0.6904	0.6903	0.6902	0.6901	0.6900	0.6899	0.6898	0.6897	0.6896	0.6895	0.6894	0.6893	0.6892	0.6891	0.6890	0.6889	0.6888	0.6887	0.6886	0.6885	0.6884	0.6883	0.6882	0.6881	0.6880	0.6879	0.6878	0.6877	0.6876	0.6875	0.6874	0.6873	0.6872	0.6871	0.6870	0.6869	0.6868	0.6867	0.6866	0.6865	0.6864	0.6863	0.6862	0.6861	0.6860	0.6859	0.6858	0.6857	0.6856	0.6855	0.6854	0.6853	0.6852	0.6851	0.6850	0.6849	0.6848	0.6847	0.6846	0.6845	0.6844	0.6843	0.6842	0.6841	0.6840	0.6839	0.6838	0.6837	0.6836	0.6835	0.6834	0.6833	0.6832	0.6831	0.6830	0.6829	0.6828	0.6827	0.6826	0.6825	0.6824	0.6823	0.6822	0.6821	0.6820	0.6819	0.6818	0.6817	0.6816	0.6815	0.6814	0.6813	0.6812	0.6811	0.6810	0.6809	0.6808	0.6807	0.6806	0.6805	0.6804	0.6803	0.6802	0.6801	0.6800	0.6799	0.6798	0.6797	0.6796	0.6795	0.6794	0.6793	0.6792	0.6791	0.6790	0.6789	0.6788	0.6787	0.6786	0.6785	0.6784	0.6783	0.6782	0.6781	0.6780	0.6779	0.6778	0.6777	0.6776	0.6775	0.6774	0.6773	0.6772	0.6771	0.6770	0.6769	0.6768	0.6767	0.6766	0.6765	0.6764	0.6763	0.6762	0.6761	0.6760	0.6759	0.6758	0.6757	0.6756	0.6755	0.6754	0.6753	0.6752	0.6751	0.6750	0.6749	0.6748	0.6747	0.6746	0.6745	0.6744	0.6743	0.6742	0.6741	0.6740	0.6739	0.6738	0.6737	0.6736	0.6735	0.6734	0.6733	0.6732	0.6731	0.6730	0.6729	0.6728	0.6727	0.6726	0.6725	0.6724	0.6723	0.6722	0.6721	0.6720	0.6719	0.6718	0.6717	0.6716	0.6715	0.6714	0.6713	0.6712	0.6711	0.6710	0.6709	0.6708	0.6707	0.6706	0.6705	0.6704	0.6703	0.6702	0.6701	0.6700	0.6699	0.6698	0.6697	0.6696	0.6695	0.6694	0.6693	0.6692	0.6691	0.6690	0.6689	0.6688	0.6687	0.6686	0.6685	0.6684	0.6683	0.6682	0.6681	0.6680	0.6679	0.6678	0.6677	0.6676	0.6675	0.6674	0.6673	0.6672	0.6671	0.6670	0.6669	0.6668	0.6667	0.6666	0.6665	0.6664	0.6663	0.6662	0.6661	0.6660	0.6659	0.6658	0.6657	0.6656	0.6655	0.6654	0.6653	0.6652	0.6651	0.6650	0.6649	0.6648	0.6647</
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FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	0	0.1052	0.1048	0.1045	0.1041	0.1034	0.1020	0.1001	0.0975	0.0946	0.0919	0.0898	0.0886	0.0888	0.0905	0.0931	0.0962	0.0994	0.1023	0.1045	0.1059	0.1065	0.1065	0.1061	0.1057	0 kts
FLD_SS6	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	2	0.1149	0.1141	0.1129	0.1111	0.1083	0.1044	0.0996	0.0940	0.0882	0.0830	0.0789	0.0766	0.0764	0.0784	0.0822	0.0872	0.0929	0.0987	0.1040	0.1084	0.1116	0.1137	0.1148	0.1151	2 kts
FLD_SS6	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	4	0.1236	0.1226	0.1207	0.1177	0.1132	0.1071	0.0996	0.0912	0.0826	0.0748	0.0668	0.0651	0.0645	0.0669	0.0719	0.0789	0.0872	0.0958	0.1041	0.1112	0.1167	0.1205	0.1227	0.1237	4 kts
FLD_SS6	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	6	0.1322	0.1310	0.1285	0.1244	0.1184	0.1103	0.1004	0.0893	0.0780	0.0676	0.0594	0.0544	0.0532	0.0561	0.0625	0.0715	0.0823	0.0938	0.1048	0.1144	0.1220	0.1274	0.1306	0.1321	6 kts
FLD_SS6	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	7	0.1367	0.1354	0.1326	0.1280	0.1213	0.1122	0.1012	0.0889	0.0763	0.0647	0.0556	0.0500	0.0486	0.0517	0.0586	0.0686	0.0805	0.0933	0.1056	0.1163	0.1249	0.1310	0.1347	0.1365	7 kts
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot
	Sea State 6
	Vertical Acceleration
	Transom, A-Frame
	Shortcrested

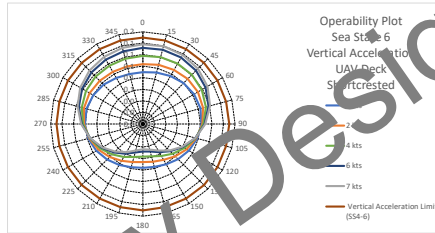
Operability Plot	Sea State 6
Vertical Acceleration	Transom, A-Frame
Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	0	0.0896	0.0920	0.0959	0.1000	0.1028	0.1035	0.1018	0.0978	0.0923	0.0864	0.0811	0.0775	0.764	0.078	0.821	0.0876	0.0932	0.0978	0.1006	0.1011	0.0994	0.0960	0.0922	0.0897	0 kts
FLD_SS6	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	2	0.1040	0.1059	0.1084	0.1103	0.1105	0.1082	0.1033	0.0962	0.0878	0.0795	0.0724	0.0678	0.664	0.0688	0.73	0.0812	0.0890	0.0962	0.1019	0.1053	0.1065	0.1059	0.1044	0.1035	2 kts
FLD_SS6	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	4	0.1183	0.1198	0.1209	0.1208	0.1183	0.1132	0.1052	0.0951	0.0839	0.0730	0.0642	0.0584	0.571	0.059	0.652	0.0753	0.0854	0.0952	0.1036	0.1100	0.1140	0.1160	0.1167	0.1172	4 kts
FLD_SS6	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	6	0.1320	0.1330	0.1329	0.1309	0.1261	0.1182	0.1074	0.0945	0.0806	0.0675	0.0568	0.0500	0.431	0.051	0.594	0.0701	0.0825	0.0947	0.1058	0.1149	0.1216	0.1259	0.1286	0.1304	6 kts
FLD_SS6	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	7	0.1383	0.1392	0.1385	0.1356	0.1298	0.1207	0.1087	0.0945	0.0794	0.0652	0.0537	0.0464	0.041	0.041	0.566	0.0682	0.0814	0.0948	0.1071	0.1174	0.1253	0.1307	0.1342	0.1366	7 kts
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot
	Sea State 6
	Vertical Acceleration
	UAV Deck
	Shortcrested

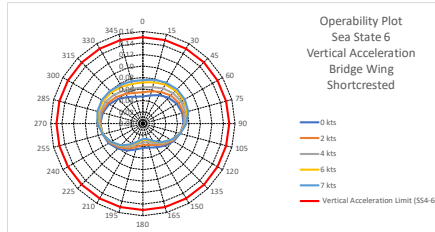
Operability Plot	Sea State 6
Vertical Acceleration	UAV Deck
Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	0	0.0470	0.0525	0.0567	0.0632	0.0682	0.0708	0.0705	0.0673	0.0617	0.0547	0.0478	0.0432	0.0426	0.0467	0.0538	0.0614	0.0681	0.0723	0.0735	0.0717	0.0670	0.0603	0.0532	0.0480	0 kts
FLD_SS6	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	2	0.0708	0.0729	0.0763	0.0805	0.0822	0.0734	0.0715	0.0668	0.0598	0.0514	0.0435	0.0382	0.0376	0.0421	0.0499	0.0586	0.0663	0.0717	0.0743	0.0738	0.0705	0.0651	0.0592	0.0550	2 kts
FLD_SS6	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	4	0.0625	0.064	0.0702	0.0745	0.0768	0.0765	0.0731	0.0668	0.0583	0.0486	0.0396	0.0336	0.0328	0.0378	0.0464	0.0560	0.0649	0.0716	0.0755	0.0765	0.0746	0.0706	0.0660	0.0627	4 kts
FLD_SS6	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	6	0.0712	0.0739	0.0777	0.0808	0.0818	0.0799	0.0750	0.0671	0.0572	0.0464	0.0364	0.0297	0.0288	0.0341	0.0434	0.0540	0.0639	0.0719	0.0773	0.0797	0.0793	0.0768	0.0735	0.0711	6 kts
FLD_SS6	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	7	0.0757	0.0783	0.0816	0.0841	0.0844	0.0818	0.0760	0.0675	0.0569	0.0455	0.0350	0.0280	0.0271	0.0326	0.0422	0.0531	0.0636	0.0722	0.0784	0.0816	0.0819	0.0802	0.0775	0.0755	7 kts
Limit				Vertical Acceleration Limit (SS4-6)			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

Chart Title	Operability Plot
	Sea State 6
	Vertical Acceleration
	Bridge Wing
	Shortcrested

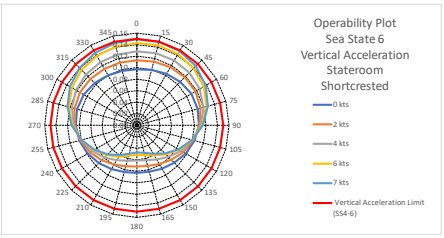
Operability Plot	Sea State 6
Vertical Acceleration	Bridge Wing
Shortcrested	Shortcrested



Preliminary Design, @IDR5

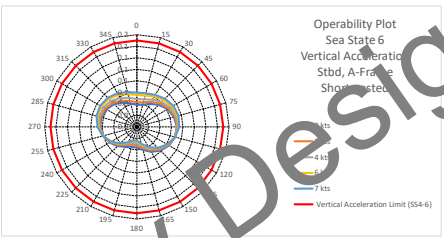
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	0	0.0973	0.0995	0.1030	0.1067	0.1092	0.1095	0.1076	0.1035	0.0981	0.0922	0.0872	0.0838	0.0826	0.0840	0.0878	0.0930	0.0994	0.1031	0.1062	0.1072	0.1059	0.1031	0.0997	0.0974	0 kts
FLD_SS6	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	2	0.1128	0.1144	0.1164	0.1178	0.1178	0.1145	0.1091	0.1017	0.0933	0.0847	0.0777	0.0732	0.0711	0.0737	0.0788	0.0858	0.0937	0.1013	0.1076	0.1118	0.1137	0.1138	0.1125	0.1123	2 kts
FLD_SS6	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	4	0.1281	0.1292	0.1298	0.1289	0.1258	0.1198	0.1111	0.1003	0.0887	0.0776	0.0687	0.0630	0.0612	0.0638	0.0702	0.0792	0.0896	0.1001	0.1094	0.1168	0.1218	0.1247	0.1261	0.1270	4 kts
FLD_SS6	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	6	0.1426	0.1433	0.1426	0.1397	0.1340	0.1251	0.1134	0.0996	0.0850	0.0715	0.0607	0.0537	0.0516	0.0549	0.0627	0.0736	0.0863	0.0995	0.1117	0.1220	0.1299	0.1353	0.1387	0.1410	6 kts
FLD_SS6	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	7	0.1493	0.1498	0.1485	0.1447	0.1379	0.1278	0.1147	0.0995	0.0837	0.0690	0.0573	0.0498	0.0476	0.0511	0.0595	0.0713	0.0851	0.0995	0.1130	0.1246	0.1338	0.1403	0.1447	0.1475	7 kts
Limit							0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Vertical Acceleration	Vertical Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested



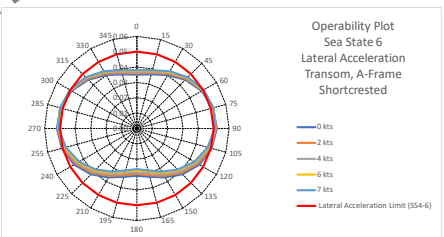
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	19.7	0	0.0380	0.0396	0.0459	0.0541	0.0616	0.0671	0.0697	0.0689	0.0650	0.0584	0.0500	0.0418	0.0362	0.0375	0.0402	0.0473	0.0545	0.0602	0.0633	0.0634	0.0606	0.0552	0.0484	0.0418	0 kts
FLD_SS6	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	19.7	2	0.0428	0.0441	0.0498	0.0573	0.0640	0.0686	0.0701	0.0684	0.0635	0.0560	0.0469	0.0381	0.0322	0.0331	0.0368	0.0449	0.0531	0.0599	0.0641	0.0653	0.0634	0.0589	0.0527	0.0465	2 kts
FLD_SS6	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	19.7	4	0.0485	0.0494	0.0545	0.0612	0.0670	0.0706	0.0711	0.0683	0.0624	0.0539	0.0441	0.0347	0.0285	0.0288	0.034	0.0429	0.0522	0.0600	0.0654	0.0677	0.0669	0.0633	0.0578	0.0520	4 kts
FLD_SS6	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	19.7	6	0.0554	0.0562	0.0605	0.0662	0.0709	0.0733	0.0728	0.0686	0.0618	0.0522	0.0417	0.0319	0.0254	0.0255	0.031	0.0414	0.0517	0.0606	0.0671	0.0707	0.0710	0.0684	0.0638	0.0586	6 kts
FLD_SS6	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	19.7	7	0.0595	0.0601	0.0640	0.0691	0.0732	0.0749	0.0736	0.0690	0.0614	0.0515	0.0407	0.0307	0.0243	0.0248	0.0309	0.0409	0.0516	0.0611	0.0682	0.0723	0.0733	0.0713	0.0672	0.0625	7 kts
Limit							0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Vertical Acceleration	Vertical Acceleration
	Sbtd, A-Frame	Sbtd, A-Frame
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	0	0.0349	0.0363	0.0405	0.0448	0.0489	0.0514	0.0520	0.0504	0.0470	0.0422	0.0369	0.0326	0.0308	0.0326	0.0369	0.0422	0.0470	0.0504	0.0520	0.0514	0.0489	0.0448	0.0401	0.0363	0 kts
FLD_SS6	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	2	0.0359	0.0373	0.0415	0.0455	0.0493	0.0515	0.0517	0.0497	0.0460	0.0410	0.0357	0.0314	0.0297	0.0314	0.0357	0.0410	0.0460	0.0497	0.0517	0.0515	0.0493	0.0455	0.0410	0.0373	2 kts
FLD_SS6	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	4	0.0375	0.0387	0.0428	0.0467	0.0502	0.0516	0.0513	0.0490	0.0449	0.0398	0.0345	0.0302	0.0285	0.0302	0.0345	0.0398	0.0449	0.0490	0.0513	0.0516	0.0497	0.0462	0.0418	0.0382	4 kts
FLD_SS6	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	6	0.0375	0.0387	0.0428	0.0467	0.0502	0.0516	0.0513	0.0490	0.0449	0.0398	0.0345	0.0302	0.0285	0.0302	0.0345	0.0398	0.0449	0.0490	0.0513	0.0516	0.0497	0.0462	0.0418	0.0382	4 kts
FLD_SS6	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	7	0.0378	0.0393	0.0429	0.0471	0.0502	0.0516	0.0508	0.0478	0.0433	0.0378	0.0324	0.0282	0.0266	0.0282	0.0324	0.0378	0.0433	0.0478	0.0508	0.0516	0.0502	0.0471	0.0429	0.0393	7 kts
Limit							0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

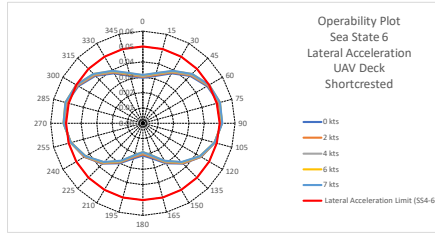
Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Lateral Acceleration	Lateral Acceleration
	Transom, A-Frame	Transom, A-Frame
	Shortcrested	Shortcrested



Preliminary Design, CIDR5

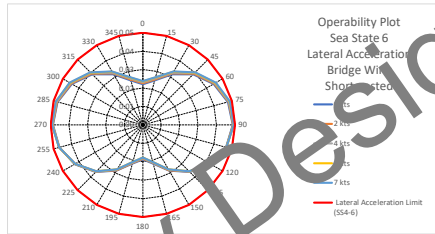
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_SS6	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	0	0.0395	0.0319	0.0375	0.0436	0.0485	0.0522	0.0512	0.0487	0.0439	0.0372	0.0300	0.0237	0.0210	0.0237	0.0300	0.0373	0.0439	0.0487	0.0512	0.0512	0.0485	0.0436	0.0375	0.0319	0.0250	0 kts	
FLD_SS6	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	2	0.0301	0.0325	0.0381	0.0442	0.0490	0.0515	0.0514	0.0486	0.0438	0.0368	0.0294	0.0229	0.0202	0.0229	0.0294	0.0368	0.0438	0.0486	0.0486	0.0514	0.0515	0.0490	0.0442	0.0381	0.0325	0.0250	2 kts
FLD_SS6	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	4	0.0306	0.0331	0.0387	0.0447	0.0494	0.0518	0.0513	0.0485	0.0433	0.0364	0.0288	0.0222	0.0194	0.0222	0.0288	0.0364	0.0433	0.0485	0.0513	0.0518	0.0494	0.0447	0.0387	0.0331	0.0250	4 kts	
FLD_SS6	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	6	0.0312	0.0336	0.0392	0.0452	0.0498	0.0520	0.0516	0.0484	0.0430	0.0360	0.0283	0.0217	0.0188	0.0217	0.0283	0.0360	0.0430	0.0484	0.0516	0.0520	0.0498	0.0452	0.0392	0.0336	0.0250	6 kts	
FLD_SS6	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	7	0.0314	0.0339	0.0395	0.0454	0.0500	0.0521	0.0516	0.0484	0.0429	0.0358	0.0281	0.0215	0.0187	0.0215	0.0281	0.0358	0.0429	0.0484	0.0516	0.0521	0.0500	0.0454	0.0395	0.0339	0.0250	7 kts	
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Lateral Acceleration	Lateral Acceleration
	UAV Deck	UAV Deck
	Shortcrested	Shortcrested



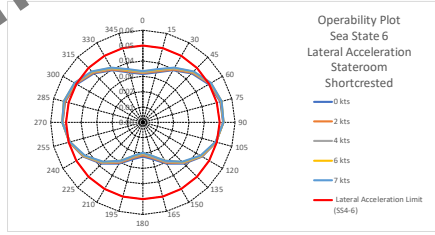
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	0	0.0220	0.0250	0.0317	0.0387	0.0444	0.0479	0.0487	0.0469	0.0425	0.0361	0.0286	0.0218	0.0187	0.0218	0.0286	0.0361	0.0425	0.0469	0.0487	0.0479	0.0444	0.0387	0.0317	0.0250	0 kts
FLD_SS6	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	2	0.0225	0.0255	0.0322	0.0392	0.0448	0.0482	0.0489	0.0469	0.0424	0.0359	0.0284	0.0214	0.0183	0.0214	0.0284	0.0359	0.0424	0.0469	0.0489	0.0482	0.0448	0.0392	0.0322	0.0255	2 kts
FLD_SS6	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	4	0.0231	0.0261	0.0327	0.0397	0.0452	0.0485	0.0491	0.0470	0.0424	0.0358	0.0281	0.0212	0.0180	0.0212	0.0281	0.0358	0.0424	0.0470	0.0491	0.0485	0.0452	0.0397	0.0327	0.0261	4 kts
FLD_SS6	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	6	0.0236	0.0266	0.0332	0.0401	0.0456	0.0488	0.0493	0.0470	0.0423	0.0356	0.0279	0.0209	0.0178	0.0209	0.0279	0.0356	0.0423	0.0470	0.0493	0.0488	0.0456	0.0401	0.0332	0.0266	6 kts
FLD_SS6	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	7	0.0238	0.0268	0.0334	0.0403	0.0457	0.0489	0.0493	0.0470	0.0423	0.0356	0.0279	0.0209	0.0178	0.0209	0.0279	0.0356	0.0423	0.0470	0.0493	0.0489	0.0457	0.0403	0.0334	0.0268	7 kts
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Lateral Acceleration	Lateral Acceleration
	Bridge Wing	Bridge Wing
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	0	0.0314	0.0344	0.0411	0.0451	0.0498	0.0523	0.0522	0.0496	0.0446	0.0381	0.0310	0.0248	0.0223	0.0248	0.0310	0.0381	0.0446	0.0496	0.0522	0.0523	0.0498	0.0451	0.0391	0.0337	0 kts
FLD_SS6	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	2	0.0321	0.0344	0.0395	0.0457	0.0503	0.0526	0.0523	0.0494	0.0443	0.0375	0.0302	0.0240	0.0214	0.0240	0.0302	0.0375	0.0443	0.0494	0.0523	0.0526	0.0503	0.0457	0.0398	0.0344	2 kts
FLD_SS6	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	4	0.0326	0.0349	0.0403	0.0462	0.0507	0.0529	0.0524	0.0493	0.0440	0.0370	0.0295	0.0232	0.0205	0.0232	0.0295	0.0370	0.0440	0.0493	0.0524	0.0529	0.0507	0.0462	0.0403	0.0349	4 kts
FLD_SS6	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	6	0.0331	0.0354	0.0407	0.0467	0.0511	0.0531	0.0525	0.0492	0.0438	0.0365	0.0289	0.0225	0.0198	0.0225	0.0289	0.0365	0.0438	0.0492	0.0525	0.0531	0.0511	0.0467	0.0409	0.0355	6 kts
FLD_SS6	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	7	0.0334	0.0357	0.0411	0.0469	0.0512	0.0532	0.0525	0.0491	0.0435	0.0363	0.0287	0.0223	0.0197	0.0223	0.0287	0.0363	0.0435	0.0491	0.0525	0.0532	0.0512	0.0469	0.0411	0.0357	7 kts
Limit				Lateral Acceleration Limit (SS4-6)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

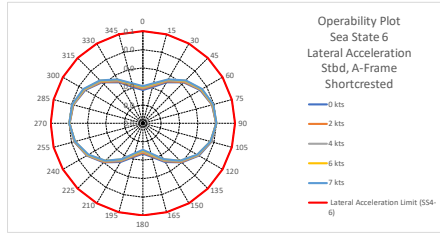
Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Lateral Acceleration	Lateral Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested



Preliminary Design, CIDR5

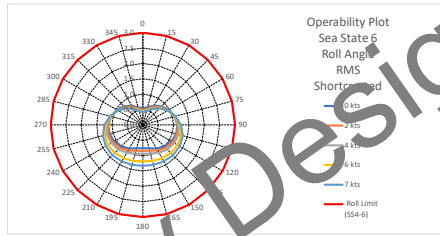
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_SS6	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	0	0.0181	0.0204	0.0257	0.0313	0.0369	0.0398	0.0398	0.0384	0.0351	0.0301	0.0242	0.0168	0.0115	0.0086	0.0242	0.0301	0.0351	0.0384	0.0398	0.0398	0.0369	0.0313	0.0257	0.0204	0.0181	0 kts	
FLD_SS6	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	2	0.0187	0.0210	0.0262	0.0318	0.0363	0.0391	0.0398	0.0383	0.0348	0.0296	0.0237	0.0183	0.0158	0.0135	0.0118	0.0237	0.0296	0.0348	0.0383	0.0391	0.0398	0.0363	0.0318	0.0262	0.0210	0.0187	2 kts
FLD_SS6	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	4	0.0193	0.0216	0.0267	0.0322	0.0367	0.0393	0.0398	0.0382	0.0345	0.0292	0.0232	0.0177	0.0153	0.0137	0.0122	0.0232	0.0292	0.0345	0.0382	0.0393	0.0398	0.0367	0.0322	0.0267	0.0216	0.0193	4 kts
FLD_SS6	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	6	0.0199	0.0222	0.0273	0.0327	0.0370	0.0395	0.0399	0.0380	0.0342	0.0288	0.0227	0.0172	0.0147	0.0131	0.0117	0.0227	0.0288	0.0342	0.0380	0.0395	0.0399	0.0370	0.0327	0.0273	0.0222	0.0199	6 kts
FLD_SS6	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	7	0.0202	0.0224	0.0275	0.0329	0.0372	0.0396	0.0399	0.0380	0.0341	0.0286	0.0225	0.0169	0.0144	0.0128	0.0114	0.0225	0.0286	0.0341	0.0380	0.0399	0.0396	0.0372	0.0329	0.0275	0.0224	0.0202	7 kts
Limit							0.0202	0.0224	0.0275	0.0329	0.0372	0.0396	0.0399	0.0380	0.0341	0.0286	0.0225	0.0169	0.0144	0.0128	0.0225	0.0286	0.0341	0.0380	0.0399	0.0396	0.0372	0.0329	0.0275	0.0224	0.0202	0.05	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Lateral Acceleration	Lateral Acceleration
	Stbd, A-Frame	Stbd, A-Frame
	Shortcrested	Shortcrested



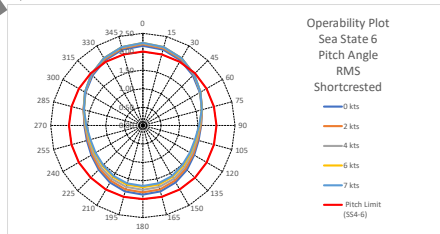
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345				
FLD_SS6	ROLL	ANGLE	RMS	SHORTCRESTED	19.7	0	0.5420	0.5940	0.7170	0.8560	0.9810	1.0730	1.1210	1.1210	1.0730	0.9860	0.8820	0.7920	0.7250	0.6800	0.6500	0.6200	0.5960	0.5730	0.5510	0.5300	0.5100	0.4910	0.4730	0.4560	0.4400	0 kts		
FLD_SS6	ROLL	ANGLE	RMS	SHORTCRESTED	19.7	2	0.4960	0.5510	0.6760	0.8250	0.9610	1.0700	1.1370	1.1550	1.1240	1.0510	0.9560	0.8730	0.8000	0.7500	0.7100	0.6700	0.6300	0.5900	0.5500	0.5100	0.4700	0.4300	0.3900	0.3500	0.3100	0.2700	2 kts	
FLD_SS6	ROLL	ANGLE	RMS	SHORTCRESTED	19.7	4	0.4580	0.5140	0.6440	0.7990	0.9480	1.0750	1.1630	1.2030	1.1890	1.1300	1.0460	0.9710	0.9000	0.8400	0.7900	0.7500	0.7100	0.6700	0.6300	0.5900	0.5500	0.5100	0.4700	0.4300	0.3900	0.3500	0.3100	4 kts
FLD_SS6	ROLL	ANGLE	RMS	SHORTCRESTED	19.7	6	0.4250	0.4840	0.6180	0.7800	0.9420	1.0890	1.2060	1.2800	1.3060	1.2900	1.2500	1.1800	1.1200	1.0700	1.0300	0.9900	0.9500	0.9100	0.8700	0.8300	0.7900	0.7500	0.7100	0.6700	0.6300	0.5900	0.5500	6 kts
FLD_SS6	ROLL	ANGLE	RMS	SHORTCRESTED	19.7	7	0.4080	0.4665	0.6040	0.7700	0.9405	1.1035	1.2450	1.3450	1.3925	1.3950	1.3715	1.3440	1.3100	1.2800	1.2500	1.2200	1.1900	1.1600	1.1300	1.1000	1.0700	1.0400	1.0100	0.9800	0.9500	0.9200	0.8900	7 kts
Limit							0.4080	0.4665	0.6040	0.7700	0.9405	1.1035	1.2450	1.3450	1.3925	1.3950	1.3715	1.3440	1.3100	1.2800	1.2500	1.2200	1.1900	1.1600	1.1300	1.1000	1.0700	1.0400	1.0100	0.9800	0.9500	0.9200	0.8900	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Roll Angle	Roll Angle
	RMS	RMS
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	PITCH	ANGLE	RMS	SHORTCRESTED	19.7	0	2.1570	1.280	2.046	1.9250	1.7880	1.6620	1.5810	1.5640	1.6100	1.6940	1.7840	1.8490	1.8720	1.8490	1.7840	1.6940	1.6100	1.5640	1.5810	1.6620	1.7880	1.9250	2.0460	2.1280	0 kts
FLD_SS6	PITCH	ANGLE	RMS	SHORTCRESTED	19.7	2	2.2020	1.170	2.020	1.9550	1.8040	1.6660	1.5710	1.5400	1.5740	1.6490	1.7300	1.7900	1.8110	1.7900	1.7300	1.6490	1.5740	1.5400	1.5710	1.6660	1.8040	1.9530	2.0820	2.1710	2 kts
FLD_SS6	PITCH	ANGLE	RMS	SHORTCRESTED	19.7	4	2.2560	1.250	2.050	1.9670	1.8110	1.6640	1.5570	1.5160	1.5350	1.5980	1.6700	1.7300	1.7400	1.7300	1.6700	1.5980	1.5350	1.5160	1.5350	1.6640	1.8110	1.9670	2.1030	2.1950	4 kts
FLD_SS6	PITCH	ANGLE	RMS	SHORTCRESTED	19.7	6	2.2360	1.300	2.100	1.9700	1.8100	1.6560	1.5400	1.4850	1.4940	1.5460	1.6080	1.6560	1.6790	1.6560	1.6080	1.5460	1.4940	1.4850	1.5460	1.6560	1.8100	1.9700	2.1090	2.2030	6 kts
FLD_SS6	PITCH	ANGLE	RMS	SHORTCRESTED	19.7	7	2.2340	1.205	2.105	1.9675	1.8065	1.6505	1.5310	1.4710	1.4740	1.5205	1.5785	1.6230	1.6390	1.6230	1.5785	1.5205	1.4740	1.4710	1.5310	1.6505	1.8065	1.9675	2.1065	2.2005	7 kts
Limit							2.2340	1.205	2.105	1.9675	1.8065	1.6505	1.5310	1.4710	1.4740	1.5205	1.5785	1.6230	1.6390	1.6230	1.5785	1.5205	1.4740	1.4710	1.5310	1.6505	1.8065	1.9675	2.1065	2.2005	7 kts

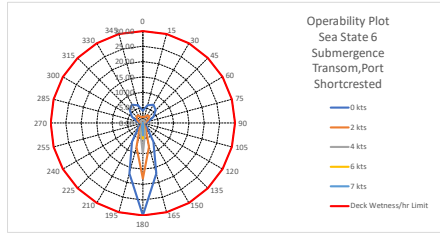
Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Pitch Angle	Pitch Angle
	RMS	RMS
	Shortcrested	Shortcrested



Preliminary Design, OLDR5

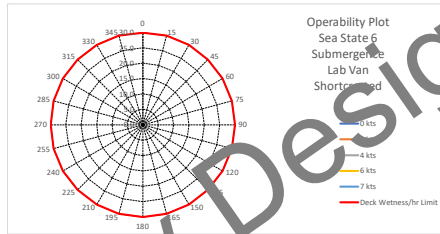
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_SS6	SUBMERGENCE		Transom_Port	SHORTCRESTED	19.7	0	4	6	7	6	4	2	1	0	0	2	7	17	30	17	7	2	0	0	1	2	4	6	7	6	0 kts	
FLD_SS6	SUBMERGENCE		Transom_Port	SHORTCRESTED	19.7	2	2	2	3	3	2	1	0	0	0	2	8	18	8	2	0	0	0	0	0	0	1	2	3	3	2	2 kts
FLD_SS6	SUBMERGENCE		Transom_Port	SHORTCRESTED	19.7	4	1	1	1	1	1	0	0	0	0	0	3	10	3	0	0	0	0	0	0	0	1	1	1	1	4 kts	
FLD_SS6	SUBMERGENCE		Transom_Port	SHORTCRESTED	19.7	6	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0	0	0	0	6 kts	
FLD_SS6	SUBMERGENCE		Transom_Port	SHORTCRESTED	19.7	7	0	0	0	0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	7 kts	
Limit				Deck Wetness/hr Limit			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Submergence	Submergence
	Transom_Port	Transom_Port
	Shortcrested	Shortcrested



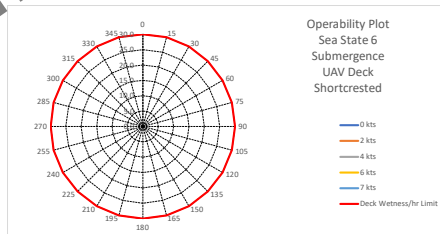
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	SUBMERGENCE		Lab_Van	SHORTCRESTED	19.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 kts
FLD_SS6	SUBMERGENCE		Lab_Van	SHORTCRESTED	19.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 kts
FLD_SS6	SUBMERGENCE		Lab_Van	SHORTCRESTED	19.7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4 kts
FLD_SS6	SUBMERGENCE		Lab_Van	SHORTCRESTED	19.7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6 kts
FLD_SS6	SUBMERGENCE		Lab_Van	SHORTCRESTED	19.7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7 kts
Limit				Deck Wetness/hr Limit			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Submergence	Submergence
	Lab_Van	Lab_Van
	Shortcrested	Shortcrested



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	SUBMERGENCE		UAV_Deck	SHORTCRESTED	19.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 kts
FLD_SS6	SUBMERGENCE		UAV_Deck	SHORTCRESTED	19.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 kts
FLD_SS6	SUBMERGENCE		UAV_Deck	SHORTCRESTED	19.7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4 kts
FLD_SS6	SUBMERGENCE		UAV_Deck	SHORTCRESTED	19.7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6 kts
FLD_SS6	SUBMERGENCE		UAV_Deck	SHORTCRESTED	19.7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7 kts
Limit				Deck Wetness/hr Limit			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

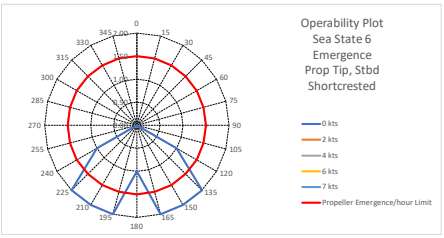
Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Submergence	Submergence
	UAV_Deck	UAV_Deck
	Shortcrested	Shortcrested



Preliminary Design, @IDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS6	EMERGENCE	0	Prop Tip, Stbd	SHORTCRESTED	19.7	0	0	0	0	0	0	0	0	0	1	2	2	2	1	2	2	2	1	0	0	0	0	0	0	0	0 kts
FLD_SS6	EMERGENCE	0	Prop Tip, Stbd	SHORTCRESTED	19.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 kts
FLD_SS6	EMERGENCE	0	Prop Tip, Stbd	SHORTCRESTED	19.7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4 kts
FLD_SS6	EMERGENCE	0	Prop Tip, Stbd	SHORTCRESTED	19.7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6 kts
FLD_SS6	EMERGENCE	0	Prop Tip, Stbd	SHORTCRESTED	19.7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7 kts
Limit				Propeller Emergence/hour Limit			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	

Chart Title	Operability Plot	Operability Plot
	Sea State 6	Sea State 6
	Emergence	Emergence
	Prop Tip, Stbd	Prop Tip, Stbd
	Shortcrested	Shortcrested



Preliminary Design, @IDR5

Motion Induced Interruption Analysis

- User Input Cell Ranges
- User Input Cell Ranges
- Calculation Cell Ranges

Table of Constants

g =	32.17	ft/s ²
l =	0.75	ft
h =	2.98	ft
μ =	0.7	
T _f =	1	Min.

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	0	4.14	4.36	4.91	5.57	6.16	6.54	6.66	6.49	6.06	5.44	4.75	4.16	3.93	4.16	4.75	5.44	6.06	6.49	6.66	6.54	6.16	5.57	4.91	4.36	0 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	2	4.18	4.40	4.94	5.59	6.16	6.54	6.64	6.47	6.04	5.42	4.74	4.17	3.93	4.17	4.74	5.42	6.04	6.47	6.64	6.54	6.16	5.59	4.94	4.40	2 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	4	4.21	4.42	4.96	5.60	6.17	6.53	6.63	6.45	6.02	5.41	4.74	4.18	3.96	4.18	4.74	5.41	6.02	6.45	6.63	6.53	6.17	5.60	4.96	4.42	4 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	6	4.24	4.45	4.98	5.62	6.17	6.53	6.63	6.45	6.04	5.45	4.81	4.29	4.09	4.29	4.81	5.45	6.04	6.45	6.63	6.53	6.17	5.62	4.98	4.45	6 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	7	4.25	4.47	5.00	5.63	6.18	6.54	6.64	6.47	6.07	5.50	4.89	4.40	4.20	4.40	4.89	5.50	6.07	6.47	6.64	6.54	6.18	5.63	5.00	4.47	7 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7																										

ZERO CROSSING PERIODS

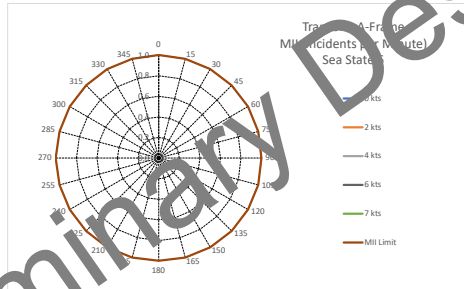
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	0	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	2	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	2 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	4	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	9.00	8.00	8.00	4 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	6	7.50	7.50	8.00	8.00	9.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	9.00	8.00	8.00	6 kts	
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	7	7.50	7.50	8.00	8.00	9.00	10.00	10.00	10.50	11.00	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	10.50	10.00	10.00	9.00	8.00	8.00	7.50	7 kts
FLD_S56	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7																											

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345							
Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MI Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345							
Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MI Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Chart Title

MI (Incidents per Minute)	Transom, A-Frame
Sea State 6	Transom, A-Frame
MI (Incidents per Minute)	Sea State 6



Preliminary Design

LATERAL FORCES

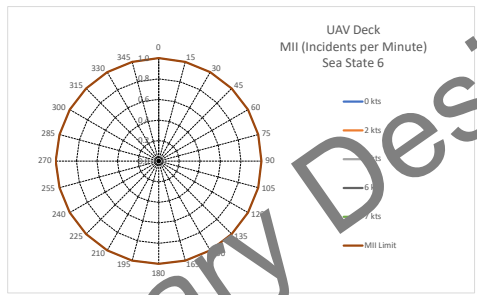
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	0	3.08	3.43	4.22	5.07	5.74	6.13	6.18	5.90	5.31	4.48	3.53	2.68	2.30	2.68	3.53	4.48	5.31	5.90	6.18	6.13	5.74	5.07	4.22	3.43	3.08	0 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	2	3.15	3.50	4.28	5.12	5.78	6.16	6.21	5.92	5.33	4.50	3.54	2.68	2.30	2.68	3.54	4.50	5.33	5.92	6.21	6.16	5.78	5.12	4.28	3.50	3.15	2 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	4	3.20	3.55	4.33	5.16	5.82	6.20	6.25	5.96	5.36	4.53	3.58	2.73	2.36	2.73	3.58	4.53	5.36	5.96	6.25	6.20	5.82	5.16	4.33	3.55	3.20	4 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	6	3.25	3.59	4.36	5.19	5.85	6.24	6.29	6.01	5.44	4.64	3.75	2.98	2.65	2.98	3.75	4.64	5.44	6.01	6.29	6.24	5.85	5.19	4.36	3.59	3.25	6 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	7	3.28	3.62	4.39	5.22	5.87	6.26	6.32	6.07	5.52	4.75	3.91	3.19	2.89	3.19	3.91	4.75	5.52	6.07	6.32	6.26	5.87	5.22	4.39	3.62	3.28	7 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7																												
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7																												

ZERO CROSSING PERIODS																																		
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	0	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	4	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	12.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	4 kts
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	6	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	13.00	13.00	13.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	6 kts	
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	7	9.00	9.00	9.50	9.50	10.00	10.00	10.00	10.00	11.00	11.00	12.50	13.00	13.00	13.00	12.50	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.50	9.50	9.00	7 kts		
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7																													
FLD_S56	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7																													

Incidents of Tipping MII Through the Given Duration of the Task																																		
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts	
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts	
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts	
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts	
Mill Limit							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Incidents of Sliding MSI Through the Given Duration of the Task																																	
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 UAV Deck
 MII (Incidents per Minute)
 Sea State 6
 UAV Deck



Preliminary Design, @IDR25

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	0	2.71	3.11	3.99	4.92	5.68	6.15	6.29	6.08	5.55	4.76	3.84	3.00	2.64	3.00	3.84	4.76	5.55	6.08	6.29	6.15	5.68	4.92	3.99	3.11	2.71	0 kts	
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	2	2.74	3.14	4.01	4.94	5.69	6.17	6.32	6.12	5.60	4.82	3.91	3.09	2.73	3.09	3.91	4.82	5.60	6.12	6.32	6.17	5.69	4.94	4.01	3.14	2.74	2 kts	
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	4	2.75	3.15	4.02	4.95	5.71	6.20	6.36	6.18	5.67	4.91	4.01	3.21	2.86	3.21	4.01	4.91	5.67	6.18	6.36	6.20	5.71	4.95	4.02	3.15	2.75	4 kts	
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	6	2.77	3.16	4.03	4.96	5.73	6.23	6.41	6.26	5.78	5.06	4.22	3.49	3.18	3.49	4.22	5.06	5.78	6.26	6.41	6.23	5.73	4.96	4.03	3.16	2.77	6 kts	
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	7	2.78	3.18	4.05	4.97	5.74	6.25	6.45	6.32	5.87	5.18	4.39	3.70	3.42	3.70	4.39	5.18	5.87	6.32	6.45	6.25	5.74	4.97	4.05	3.18	2.78	7 kts	
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7																												
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7																												

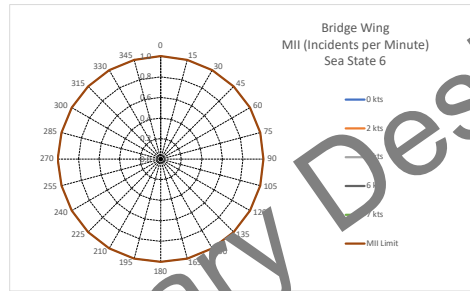
ZERO CROSSING PERIODS

FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	0	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	4	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	4 kts
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	6	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	12.00	13.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6 kts
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	7	9.50	9.50	9.50	10.00	10.00	10.00	10.00	11.00	11.00	11.50	12.50	12.50	13.00	12.50	12.50	11.50	11.00	10.00	10.00	10.00	10.00	10.00	9.50	9.50	9.50	7 kts		
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7																													
FLD_S56	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7																													

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 Bridge Wing



Preliminary Design, @IDR25

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	0	3.21	3.55	4.32	5.15	5.80	6.17	6.21	5.91	5.31	4.48	3.53	2.69	2.32	2.69	3.53	4.48	5.31	5.91	6.21	6.17	5.80	5.15	4.32	3.55	0 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	2	3.30	3.63	4.39	5.20	5.84	6.20	6.23	5.93	5.32	4.48	3.53	2.67	2.29	2.67	3.53	4.48	5.32	5.93	6.23	6.20	5.84	5.20	4.39	3.63	2 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	4	3.35	3.68	4.44	5.25	5.88	6.24	6.26	5.95	5.34	4.50	3.55	2.70	2.33	2.70	3.55	4.50	5.34	5.95	6.26	6.24	5.88	5.25	4.44	3.68	4 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	6	3.40	3.73	4.48	5.29	5.92	6.28	6.30	6.00	5.41	4.60	3.70	2.93	2.60	2.93	3.70	4.60	5.41	6.00	6.30	6.28	5.92	5.29	4.48	3.73	6 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	7	3.43	3.76	4.51	5.31	5.94	6.30	6.33	6.05	5.48	4.70	3.85	3.13	2.83	3.13	3.85	4.70	5.48	6.05	6.33	6.30	5.94	5.31	4.51	3.76	7 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7																										
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7																										

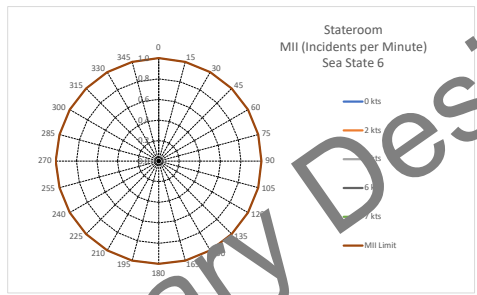
ZERO CROSSING PERIODS

FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	0	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	4	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	12.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	4 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	6	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	13.00	13.00	13.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	6 kts
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	7	9.00	9.00	9.00	9.50	10.00	10.00	10.00	10.00	11.00	11.00	12.00	13.00	13.00	13.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	9.50	9.00	9.00	7 kts	
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7																											
FLD_S56	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7																											

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts	
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts	
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts	
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts	
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 Stateroom



Preliminary Design, @IDR25

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	0	2.32	2.66	3.40	4.18	4.83	5.23	5.36	5.18	4.73	4.05	3.26	2.54	2.23	2.54	3.26	4.05	4.73	5.18	5.36	5.23	4.83	4.18	3.40	2.66	0 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	2	2.36	2.69	3.42	4.20	4.84	5.25	5.37	5.20	4.75	4.08	3.30	2.58	2.27	2.58	3.30	4.08	4.75	5.20	5.37	5.25	4.84	4.20	3.42	2.69	2 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	4	2.38	2.71	3.43	4.21	4.85	5.26	5.40	5.23	4.79	4.13	3.36	2.66	2.35	2.66	3.36	4.13	4.79	5.23	5.40	5.26	4.85	4.21	3.43	2.71	4 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	6	2.41	2.73	3.45	4.23	4.87	5.29	5.43	5.29	4.87	4.25	3.52	2.89	2.62	2.89	3.52	4.25	4.87	5.29	5.43	5.29	4.87	4.23	3.45	2.73	6 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	7	2.43	2.75	3.47	4.24	4.88	5.31	5.46	5.34	4.95	4.35	3.67	3.08	2.83	3.08	3.67	4.35	4.95	5.34	5.46	5.31	4.88	4.24	3.47	2.75	7 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7																										
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7																										

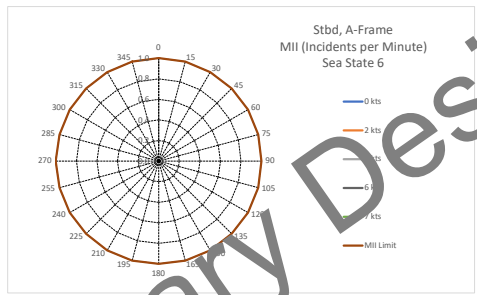
ZERO CROSSING PERIODS

FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	0	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	4	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	12.00	12.00	12.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	4 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	6	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	13.00	13.00	13.00	12.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6 kts
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	7	9.50	9.50	9.50	10.00	10.00	10.00	10.00	11.00	11.00	11.50	12.50	13.00	13.00	13.00	12.50	11.50	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.50	9.50	7 kts	
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7																												
FLD_S56	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7																												

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts	
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 Stbd, A-Frame
 MII (Incidents per Minute)
 Sea State 6



Preliminary Design, @IDR25

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	0	2.29	2.64	3.32	4.08	4.71	5.11	5.23	5.07	4.63	3.99	3.22	2.53	2.23	2.53	3.22	3.99	4.63	5.07	5.23	5.11	4.71	4.08	3.32	2.64	2.29
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	2	2.33	2.64	3.34	4.10	4.72	5.12	5.24	5.08	4.65	4.01	3.25	2.57	2.27	2.57	3.25	4.01	4.65	5.08	5.24	5.12	4.72	4.10	3.34	2.64	2.33
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	4	2.35	2.66	3.36	4.11	4.73	5.13	5.26	5.11	4.69	4.05	3.30	2.63	2.34	2.63	3.30	4.05	4.69	5.11	5.26	5.13	4.73	4.11	3.36	2.66	2.35
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	6	2.38	2.68	3.37	4.12	4.75	5.15	5.30	5.16	4.76	4.16	3.46	2.85	2.59	2.85	3.46	4.16	4.76	5.16	5.30	5.15	4.75	4.12	3.37	2.68	2.38
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	7	2.40	2.70	3.39	4.13	4.76	5.17	5.33	5.21	4.83	4.26	3.60	3.03	2.79	3.03	3.60	4.26	4.83	5.21	5.33	5.17	4.76	4.13	3.39	2.70	2.40
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7																										
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7																										

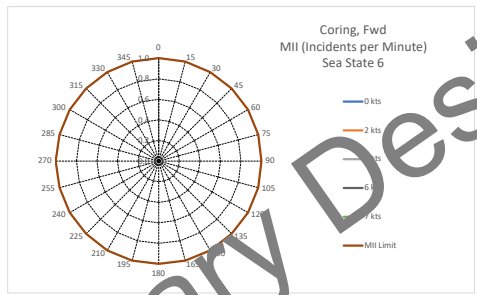
ZERO CROSSING PERIODS

FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	0	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	4	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	12.00	12.00	12.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	4 kts
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	6	9.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	12.00	13.00	12.00	12.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6 kts
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7	7	9.00	9.50	9.50	10.00	10.00	10.00	10.00	11.00	11.00	11.50	12.50	12.50	13.00	12.50	12.50	11.50	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.50	9.50	7 kts	
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7																												
FLD_S56	LATERAL	ACCELERATION	Coring, Fwd	SHORTCRESTED	19.7																												

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts	
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 Coring, Fwd
 MII (Incidents per Minute)
 Sea State 6



Preliminary Design, @IDR25

LATERAL FORCES

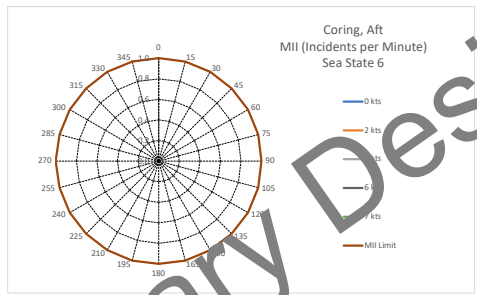
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	0	4.03	4.24	4.79	5.45	6.03	6.41	6.53	6.36	5.94	5.33	4.64	4.06	3.83	4.06	4.64	5.33	5.94	6.36	6.53	6.41	6.03	5.45	4.79	4.24	4.03
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	2	4.07	4.28	4.82	5.47	6.04	6.41	6.51	6.34	5.92	5.31	4.63	4.06	3.83	4.06	4.63	5.31	5.92	6.34	6.51	6.41	6.04	5.47	4.82	4.28	4.07
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	4	4.10	4.31	4.84	5.48	6.04	6.40	6.50	6.33	5.90	5.30	4.63	4.08	3.86	4.08	4.63	5.30	5.90	6.33	6.50	6.40	6.04	5.48	4.84	4.31	4.10
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	6	4.12	4.33	4.86	5.49	6.04	6.40	6.50	6.33	5.92	5.34	4.71	4.19	3.99	4.19	4.71	5.34	5.92	6.33	6.50	6.40	6.04	5.49	4.86	4.33	4.12
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	7	4.14	4.35	4.88	5.50	6.05	6.41	6.51	6.35	5.96	5.40	4.79	4.30	4.11	4.30	4.79	5.40	5.96	6.35	6.50	6.41	6.05	5.50	4.88	4.35	4.14
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7																										
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7																										

ZERO CROSSING PERIODS																																	
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	0	9.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	2	8.00	8.00	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	8.00	2 kts
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	4	8.00	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	8.00	8.00	4 kts
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	6	8.00	8.00	8.00	8.00	9.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	8.00	8.00	8.00	6 kts
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7	7	7.50	8.00	8.00	8.00	9.00	10.00	10.00	10.50	11.00	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.00	10.50	10.00	10.00	9.00	8.00	8.00	8.00	7 kts		
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7																												
FLD_S56	LATERAL	ACCELERATION	Coring, Aft	SHORTCRESTED	19.7																												

Incidents of Tipping MII Through the Given Duration of the Task																																
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
Mill Limit							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Incidents of Sliding MSI Through the Given Duration of the Task																																
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 Coring, Aft
 Coring, Aft
 MII (Incidents per Minute)
 Sea State 6



Preliminary Design, @IDR25

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	0	3.20	3.45	4.04	4.74	5.34	5.73	5.87	5.72	5.31	4.70	4.01	3.41	3.16	3.41	4.01	4.70	5.31	5.72	5.87	5.73	5.34	4.74	4.04	3.45	0 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	2	3.23	3.47	4.06	4.74	5.34	5.73	5.86	5.72	5.31	4.71	4.02	3.43	3.19	3.43	4.02	4.71	5.31	5.72	5.86	5.73	5.34	4.74	4.06	3.47	2 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	4	3.25	3.49	4.07	4.75	5.34	5.73	5.86	5.72	5.32	4.73	4.05	3.48	3.24	3.48	4.05	4.73	5.32	5.72	5.86	5.73	5.34	4.75	4.07	3.49	4 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	6	3.27	3.51	4.09	4.76	5.35	5.74	5.88	5.75	5.37	4.80	4.17	3.63	3.41	3.63	4.17	4.80	5.37	5.75	5.88	5.74	5.35	4.76	4.09	3.51	6 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	7	3.29	3.52	4.10	4.77	5.36	5.75	5.90	5.78	5.42	4.88	4.27	3.77	3.56	3.77	4.27	4.88	5.42	5.78	5.90	5.75	5.36	4.77	4.10	3.52	7 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7																										
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7																										

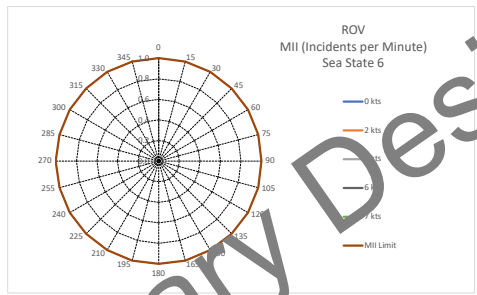
ZERO CROSSING PERIODS

FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	0	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	2	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	2 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	4	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	4 kts
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	6	8.00	8.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	9.00	8.00	6 kts	
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7	7	8.00	8.00	8.50	9.00	10.00	10.00	10.00	10.50	11.00	11.50	11.50	12.50	12.50	12.50	11.50	11.50	11.00	10.50	10.00	10.00	10.00	9.00	8.50	8.00	7 kts	
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7																											
FLD_S56	LATERAL	ACCELERATION	ROV	SHORTCRESTED	19.7																											

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 ROV
 MII (Incidents per Minute)
 Sea State 6



Preliminary Design, @IDR25

LATERAL FORCES

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	0	3.36	3.69	4.41	5.18	5.79	6.13	6.14	5.83	5.23	4.41	3.50	2.69	2.34	2.69	3.50	4.41	5.23	5.83	6.14	6.13	5.79	5.18	4.41	3.69	0 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	2	3.47	3.78	4.48	5.24	5.84	6.16	6.16	5.83	5.22	4.38	3.46	2.63	2.27	2.63	3.46	4.38	5.22	5.83	6.16	6.16	5.84	5.24	4.48	3.78	2 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	4	3.54	3.84	4.54	5.30	5.89	6.20	6.18	5.85	5.22	4.38	3.45	2.62	2.26	2.62	3.45	4.38	5.22	5.85	6.18	6.20	5.89	5.30	4.54	3.84	4 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	6	3.60	3.90	4.59	5.34	5.92	6.23	6.21	5.88	5.26	4.45	3.56	2.80	2.48	2.80	3.56	4.45	5.26	5.88	6.21	6.23	5.92	5.34	4.59	3.90	6 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	7	3.63	3.93	4.62	5.37	5.94	6.25	6.24	5.92	5.32	4.54	3.69	2.98	2.69	2.98	3.69	4.54	5.32	5.92	6.24	6.25	5.94	5.37	4.62	3.93	7 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7																											
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7																											

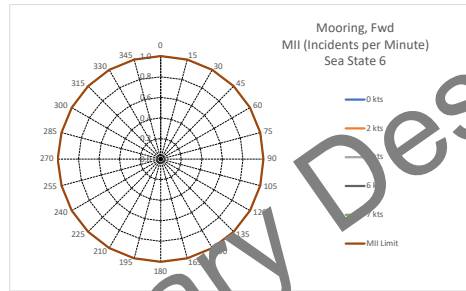
ZERO CROSSING PERIODS

FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	0	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	4	9.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	11.00	12.00	12.00	12.00	11.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	4 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	6	9.00	9.00	9.00	10.00	10.00	10.00	10.00	10.00	11.00	11.00	12.00	13.00	13.00	13.00	12.00	11.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	6 kts	
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7	7	8.50	8.50	9.00	9.50	10.00	10.00	10.00	10.00	11.00	11.00	11.50	13.00	13.00	13.00	11.50	11.00	11.00	10.00	10.00	10.00	10.00	9.50	9.00	8.50	7 kts		
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7																												
FLD_S56	LATERAL	ACCELERATION	Mooring, Fwd	SHORTCRESTED	19.7																												

Incidents of Tipping MII Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts	
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts	
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts	
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts	
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Incidents of Sliding MSI Through the Given Duration of the Task	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 kts
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2 kts
	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4 kts
	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6 kts
	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7 kts
	Mill Limit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Chart Title
 MII (Incidents per Minute)
 Sea State 6
 Mooring, Fwd
 Mooring, Fwd
 MII (Incidents per Minute)
 Sea State 6



Preliminary Design, @IDR25

Motion Induced Interruption Analysis

Table of Constants

g = 9.81 m/s²

User Input Cell Ranges

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	19.7	0	1.41	1.40	1.38	1.35	1.32	1.29	1.26	1.24	1.23	1.22	1.22	1.23	1.24	1.26	1.27	1.29	1.30	1.32	1.34	1.36	1.38	1.40	1.41	0 kts	
FLD_S56	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	19.7	2	1.47	1.46	1.43	1.40	1.35	1.30	1.25	1.21	1.17	1.14	1.12	1.11	1.12	1.14	1.16	1.19	1.23	1.27	1.31	1.35	1.39	1.43	1.46	1.47	2 kts
FLD_S56	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	19.7	4	1.52	1.50	1.47	1.43	1.38	1.31	1.24	1.17	1.11	1.06	1.02	1.00	1.01	1.03	1.07	1.11	1.17	1.23	1.30	1.36	1.42	1.47	1.50	1.52	4 kts
FLD_S56	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	19.7	6	1.56	1.55	1.51	1.46	1.40	1.32	1.24	1.14	1.06	0.98	0.93	0.90	0.90	0.92	0.97	1.04	1.12	1.20	1.29	1.37	1.45	1.50	1.54	1.56	6 kts
FLD_S56	VERTICAL	VELOCITY	Transom, A-Frame	SHORTCRESTED	19.7	7	1.58	1.57	1.53	1.48	1.42	1.33	1.23	1.13	1.03	0.95	0.89	0.85	0.85	0.88	0.93	1.01	1.09	1.19	1.29	1.38	1.46	1.52	1.56	1.58	7 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S56	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	0	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.08	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0 kts	
FLD_S56	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	2	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	2 kts
FLD_S56	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	4	0.12	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.07	0.07	0.07	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.12	0.12	4 kts	
FLD_S56	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	6	0.13	0.13	0.13	0.12	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.10	0.12	0.13	0.13	0.13	6 kts	
FLD_S56	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	19.7	7	0.14	0.14	0.13	0.13	0.12	0.11	0.10	0.09	0.08	0.06	0.05	0.05	0.05	0.06	0.07	0.08	0.09	0.11	0.12	0.12	0.13	0.13	0.14	0.14	7 kts	

We	0	0.7294	0.7326	0.7418	0.7543	0.7665	0.7749	0.7763	0.7698	0.7561	0.7387	0.7222	0.7108	0.7075	0.7130	0.7254	0.7411	0.7579	0.7705	0.7766	0.7748	0.7665	0.7545	0.7420	0.7328
We	2	0.7647	0.7671	0.7733	0.7809	0.7867	0.7872	0.7801	0.7645	0.7415	0.7153	0.6913	0.6748	0.6699	0.6770	0.6943	0.7175	0.7426	0.7644	0.7796	0.7867	0.7863	0.7809	0.7734	0.7672
We	4	0.7982	0.7998	0.8037	0.8074	0.8076	0.8017	0.7874	0.7632	0.7304	0.6936	0.6596	0.6359	0.6282	0.6382	0.6623	0.6951	0.7303	0.7620	0.7859	0.8007	0.8071	0.8070	0.8035	0.7998
We	6	0.8305	0.8311	0.8328	0.8332	0.8293	0.8181	0.7977	0.7663	0.7241	0.6750	0.6281	0.5939	0.5822	0.5927	0.6185	0.6514	0.6895	0.7338	0.7954	0.8164	0.8282	0.8326	0.8325	0.8310
We	7	0.8460	0.8465	0.8472	0.8460	0.8402	0.8270	0.8043	0.7701	0.7241	0.6695	0.6161	0.5762	0.5624	0.5789	0.6182	0.6604	0.7216	0.7670	0.8016	0.8251	0.8389	0.8453	0.8468	0.8464

Mu(MSI)	0	-0.7754	-0.7766	-0.7800	-0.7842	-0.7881	-0.7906	-0.7909	-0.7890	-0.7848	-0.7789	-0.7727	-0.7680	-0.7666	-0.7685	-0.7739	-0.7800	-0.7854	-0.7893	-0.7910	-0.7905	-0.7881	-0.7843	-0.7800	-0.7767
Mu(MSI)	2	-0.7875	-0.7882	-0.7901	-0.7922	-0.7938	-0.7940	-0.7920	-0.7875	-0.7799	-0.7699	-0.7594	-0.7513	-0.7488	-0.7504	-0.7607	-0.7708	-0.7803	-0.7874	-0.7919	-0.7938	-0.7937	-0.7922	-0.7901	-0.7883
Mu(MSI)	4	-0.7968	-0.7972	-0.7981	-0.7990	-0.7990	-0.7976	-0.7940	-0.7870	-0.7758	-0.7604	-0.7432	-0.7293	-0.7244	-0.7307	-0.7377	-0.7461	-0.7558	-0.7667	-0.7936	-0.7974	-0.7989	-0.7989	-0.7981	-0.7972
Mu(MSI)	6	-0.8039	-0.8040	-0.8044	-0.8044	-0.8037	-0.8014	-0.7966	-0.7880	-0.7734	-0.7514	-0.7243	-0.7022	-0.6910	-0.7022	-0.7259	-0.7516	-0.7728	-0.7872	-0.7961	-0.8010	-0.8034	-0.8043	-0.8043	-0.8040
Mu(MSI)	7	-0.8068	-0.8068	-0.8070	-0.8068	-0.8057	-0.8032	-0.7982	-0.7891	-0.7734	-0.7486	-0.7163	-0.6866	-0.6741	-0.6883	-0.7178	-0.7484	-0.7724	-0.7882	-0.7976	-0.8028	-0.8055	-0.8066	-0.8069	-0.8068

Abs(sdbldot)	0	0.8235	0.8204	0.8179	0.8149	0.8091	0.7988	0.7832	0.7632	0.7408	0.7194	0.7027	0.6938	0.6956	0.7082	0.7287	0.7532	0.7781	0.8005	0.8177	0.8286	0.8336	0.8337	0.8309	0.8272		
Abs(sdbldot)	2	0.8993	0.8935	0.8841	0.8696	0.8479	0.8176	0.7793	0.7356	0.6906	0.6437	0.6187	0.5997	0.5983	0.6141	0.6437	0.6829	0.7274	0.7727	0.8142	0.8487	0.8740	0.8902	0.8986	0.9013		
Abs(sdbldot)	4	0.9678	0.9601	0.9452	0.9215	0.8863	0.8387	0.7800	0.7139	0.6407	0.5687	0.5085	0.4599	0.4309	0.4259	0.4529	0.5039	0.5632	0.6177	0.6823	0.7503	0.8149	0.8705	0.9138	0.9436	0.9609	0.9684
Abs(sdbldot)	6	1.0348	1.0253	1.0057	0.9740	0.9270	0.8638	0.7862	0.6992	0.6033	0.5091	0.4259	0.3535	0.3009	0.2599	0.2309	0.2109	0.1909	0.1709	0.1509	0.1309	0.1109	0.0909	0.0709	0.0509		
Abs(sdbldot)	7	1.0699	1.0596	1.0377	1.0020	0.9492	0.8786	0.7923	0.6957	0.5991	0.5035	0.4355	0.3911	0.3801	0.4045	0.4589	0.5367	0.6305	0.7304	0.8265	0.9107	0.9776	1.0253	1.0546	1.0686		

x for ERF eq	0	-0.7514	-0.7525	-0.7475	-0.7409	-0.7390	-0.7400	-0.7461	-0.7500	-0.7549	-0.7600	-0.7651	-0.7702	-0.7753	-0.7804	-0.7855	-0.7906	-0.7957	-0.8008	-0.8059	-0.8110	-0.8161	-0.8212	-0.8263	-0.8314
x for ERF eq	2	-0.6256	-0.6308	-0.6378	-0.6503	-0.6738	-0.7129	-0.7698	-0.8439	-0.9314	-1.0227	-1.1033	-1.1560	-1.1649	-1.1276	-1.0556	-0.9662	-0.8741	-0.7905	-0.7226	-0.6728	-0.6411	-0.6248	-0.6200	-0.6214
x for ERF eq	4	-0.5228	-0.5305	-0.5451	-0.5705	-0.6126	-0.6760	-0.7639	-0.8774	-1.0128	-1.1589	-1.2935	-1.3871	-1.4102	-1.3543	-1.2408	-1.0994	-0.9547	-0.8244	-0.7175	-0.6363	-0.5798	-0.5451	-0.5273	-0.5212
x for ERF eq	6	-0.4324	-0.4420	-0.4621	-0.4967	-0.5523	-0.6348	-0.7418	-0.8977	-1.0818	-1.2918	-1.4993	-1.6555	-1.7019	-1.6163	-1.4407	-1.2302	-1.0243	-0.8463	-0.7036	-0.5961	-0.5203	-0.4716	-0.4444	-0.4327
x for ERF eq	7	-0.3890	-0.3992	-0.4216	-0.4601	-0.5214	-0.6117	-0.7263	-0.9002	-1.1055	-1.3456	-1.5910	-1.7834	-1.8442	-1.7412	-1.5304	-1.2840	-1.0490	-0.8498	-0.6921	-0.5737	-0.4900	-0.4354	-0.4042	-0.3901

FLD_S56	MSI	Transom, A-Frame	SHORTCRESTED	19.7	0	22.6584	22.6247	22.7748	23.1711	23.0276	22.982	22.1823	21.2009	19.9962	18.6880	17.5919	16.9530	16.9320	17.5709	18.7325	20.1613	21.5526	22.7690	23.5882	23.9867	23.9962	23.7161	23.2880	22.8980	0 kts
FLD_S56	MSI	Transom, A-Frame	SHORTCRESTED	19.7	2	26.5747	26.4087	26.1818	25.7077	25.0332	23.8060	22.0996	19.9690	17.5722	15.3490	13.5263	12.3739	12.1915	12.9866	14.5744	16.7044	19.1200	21.4796	23.5149	25.0657	26.0830	26.5999	26.7547	26.7099	2 kts
FLD_S56	MSI	Transom, A-Frame	SHORTCRESTED	19.7	4	30.0198	29.7800	29.2653	28.3937	26.9905	24.9608	22.2777	19.0266	15.5878	12.3145	9.8162	8.2782	7.9355	8.7363	10.7627	13.6125	16.9839	20.5094	23.6690	26.2343	28.0807	29.2665	29.8654	30.0736	4 kts
FLD_S56	MSI	Transom, A-Frame	SHORTCRESTED	19.7	6	33.2668	32.9077	32.1548	30.9322	29.0222	26.2829	22.7383	18.4619	13.9955	9.8469	6.7076	4.8520	4.4813	5.2947	7.4423	10.9515	15.3109	20.9244	24.0892	27.2290	30.1035	31.8099	32.8118	33.2561	6 kts
FLD_S56	MSI	Transom, A-Frame	SHORTCRESTED	19.7	7	34.8990	34.5282	33.6788	32.2272	30.0653	27.0198	23.1063	18.3937	13.4779	8.8744	5.6080	3.7282	3.2434	4.086											

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	19.7	0	1.22	1.24	1.27	1.30	1.31	1.30	1.26	1.22	1.16	1.12	1.08	1.06	1.06	1.08	1.12	1.16	1.21	1.24	1.27	1.27	1.26	1.24	1.22	1.21	0 kts
FLD_S56	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	19.7	2	1.34	1.36	1.38	1.39	1.37	1.33	1.28	1.20	1.12	1.05	1.00	0.98	0.98	1.00	1.05	1.11	1.17	1.23	1.28	1.31	1.33	1.33	1.33	1.33	2 kts
FLD_S56	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	19.7	4	1.47	1.48	1.49	1.47	1.44	1.37	1.29	1.19	1.08	0.99	0.93	0.89	0.89	0.92	0.98	1.05	1.14	1.22	1.29	1.35	1.39	1.41	1.43	1.45	4 kts
FLD_S56	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	19.7	6	1.58	1.59	1.58	1.55	1.49	1.41	1.30	1.17	1.05	0.94	0.86	0.81	0.81	0.84	0.91	1.00	1.10	1.21	1.30	1.39	1.45	1.50	1.53	1.56	6 kts
FLD_S56	VERTICAL	VELOCITY	UAV Deck	SHORTCRESTED	19.7	7	1.63	1.64	1.62	1.59	1.52	1.42	1.30	1.16	1.03	0.91	0.82	0.78	0.77	0.81	0.88	0.98	1.09	1.20	1.31	1.40	1.48	1.53	1.57	1.60	7 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	0	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0 kts
FLD_S56	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	2	0.10	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.11	0.11	0.10	0.10	2 kts
FLD_S56	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	4	0.12	0.12	0.12	0.12	0.12	0.11	0.10	0.10	0.08	0.07	0.06	0.06	0.06	0.06	0.07	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	4 kts
FLD_S56	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	6	0.13	0.13	0.13	0.13	0.13	0.12	0.11	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.06	0.07	0.08	0.09	0.11	0.11	0.12	0.13	0.13	0.13	6 kts
FLD_S56	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	19.7	7	0.14	0.14	0.14	0.14	0.13	0.12	0.11	0.09	0.08	0.07	0.05	0.05	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.13	0.14	0.14	7 kts

We	0	0.7230	0.7277	0.7407	0.7571	0.7722	0.7839	0.7894	0.7878	0.7777	0.7597	0.7376	0.7177	0.7065	0.7085	0.7215	0.7398	0.7576	0.7714	0.7790	0.7777	0.7732	0.7600	0.7434	0.7288							
We	2	0.7586	0.7617	0.7702	0.7807	0.7899	0.7953	0.7946	0.7856	0.7667	0.7389	0.7071	0.6800	0.6662	0.6714	0.6919	0.7191	0.7459	0.7675	0.7821	0.7829	0.7884	0.7819	0.7717	0.7625							
We	4	0.7913	0.7932	0.7982	0.8044	0.8087	0.8090	0.8026	0.7870	0.7595	0.7210	0.6774	0.6408	0.6240	0.6339	0.6640	0.7016	0.7376	0.7678	0.7888	0.8004	0.8055	0.8041	0.7991	0.7936							
We	6	0.8207	0.8216	0.8245	0.8272	0.8279	0.8241	0.8132	0.7917	0.7566	0.7072	0.6602	0.6208	0.5819	0.5979	0.6394	0.6882	0.7411	0.7966	0.7963	0.8136	0.8228	0.8257	0.8245	0.8220							
We	7	0.8344	0.8350	0.8369	0.8383	0.8375	0.8320	0.8193	0.7957	0.7574	0.7031	0.6403	0.5864	0.5636	0.5829	0.6301	0.6821	0.7332	0.7877	0.8016	0.8208	0.8318	0.8364	0.8367	0.8352							

Mu(MSI)	0	-0.7730	-0.7748	-0.7796	-0.7851	-0.7898	-0.7931	-0.7945	-0.7941	-0.7913	-0.7860	-0.7785	-0.7708	-0.7662	-0.7671	-0.7751	-0.7893	-0.8093	-0.8311	-0.8495	-0.8595	-0.8619	-0.8555	-0.8428	-0.8288	-0.8117	-0.7919	-0.7900	-0.7860	-0.7805	-0.7752	
Mu(MSI)	2	-0.7856	-0.7866	-0.7892	-0.7922	-0.7946	-0.7960	-0.7959	-0.7935	-0.7881	-0.7789	-0.7664	-0.7539	-0.7468	-0.7455	-0.7596	-0.7781	-0.8014	-0.8214	-0.8384	-0.8494	-0.8526	-0.8444	-0.8328	-0.8188	-0.8038	-0.7926	-0.7944	-0.7943	-0.7925	-0.7896	-0.7868
Mu(MSI)	4	-0.7950	-0.7955	-0.7968	-0.7983	-0.7993	-0.7993	-0.7978	-0.7939	-0.7859	-0.7722	-0.7526	-0.7324	-0.7217	-0.7217	-0.7381	-0.7616	-0.7816	-0.8016	-0.8156	-0.8216	-0.8188	-0.8084	-0.8055	-0.8041	-0.7991	-0.7936					
Mu(MSI)	6	-0.8019	-0.8021	-0.8027	-0.8032	-0.8034	-0.8026	-0.8003	-0.7951	-0.7850	-0.7665	-0.7382	-0.7069	-0.6907	-0.703	-0.7215	-0.7579	-0.7769	-0.7890	-0.7963	-0.8004	-0.8023	-0.8029	-0.8027	-0.8022							
Mu(MSI)	7	-0.8047	-0.8048	-0.8051	-0.8054	-0.8052	-0.8042	-0.8016	-0.7961	-0.7852	-0.7647	-0.7320	-0.6943	-0.6751	-0.691	-0.7259	-0.7769	-0.7899	-0.7976	-0.8019	-0.8042	-0.8050	-0.8051	-0.8048								

Abs(s3dbldot)	0	0.7017	0.7204	0.7509	0.7826	0.8047	0.8103	0.7969	0.7659	0.7230	0.6761	0.6349	0.6001	0.5977	0.6109	0.6430	0.6856	0.7294	0.7655	0.7873	0.7913	0.7778	0.7516	0.7222	0.7023							
Abs(s3dbldot)	2	0.8141	0.8291	0.8486	0.8634	0.8647	0.8469	0.8087	0.7532	0.6977	0.6220	0.5670	0.530	0.5198	0.5371	0.5788	0.6353	0.6966	0.7532	0.7974	0.8245	0.8338	0.8288	0.8173	0.8099							
Abs(s3dbldot)	4	0.9263	0.9378	0.9467	0.9454	0.9265	0.8859	0.8236	0.7444	0.6566	0.5719	0.5023	0.4571	0.4443	0.4663	0.5182	0.5892	0.6683	0.7452	0.8113	0.8611	0.8926	0.9079	0.9135	0.9178							
Abs(s3dbldot)	6	1.0333	1.0414	1.0406	1.0245	0.9871	0.9255	0.8410	0.7396	0.6310	0.5283	0.4421	0.3913	0.3761	0.4030	0.4652	0.5499	0.6457	0.7417	0.8286	0.8996	0.9518	0.9859	1.0067	1.0212							
Abs(s3dbldot)	7	1.0829	1.0895	1.0844	1.0618	1.0162	0.9452	0.8508	0.7395	0.6215	0.5105	0.4207	0.3633	0.3472	0.3765	0.4432	0.5340	0.6374	0.7422	0.8386	0.9194	0.9809	1.0234	1.0508	1.0695							

x for ERF eq	0	-0.9314	-0.8983	-0.8413	-0.7825	-0.7407	-0.7249	-0.7394	-0.7834	-0.8511	-0.9222	-1.0000	-1.0945	-1.1225	-1.0966	-1.0276	-0.9408	-0.8586	-0.7954	-0.7595	-0.7535	-0.7768	-0.8241	-0.8813	-0.9249							
x for ERF eq	2	-0.7385	-0.7162	-0.6845	-0.6582	-0.6504	-0.6695	-0.7201	-0.8008	-0.9194	-1.0721	-1.1791	-1.2818	-1.3226	-1.2802	-1.1738	-1.0432	-0.9182	-0.8159	-0.7436	-0.7027	-0.6908	-0.7018	-0.7242	-0.7410							
x for ERF eq	4	-0.5747	-0.5601	-0.5467	-0.5445	-0.5639	-0.6124	-0.6952	-0.809	-0.9713	-1.1555	-1.3452	-1.4973	-1.5559	-1.4874	-1.3288	-1.1433	-0.9705	-0.8281	-0.7209	-0.6482	-0.6062	-0.5885	-0.5849	-0.5833							
x for ERF eq	6	-0.4388	-0.4298	-0.4232	-0.4448	-0.4848	-0.5567	-0.6666	-0.8066	-0.9866	-1.2558	-1.5134	-1.7305	-1.8142	-1.7077	-1.4815	-1.2338	-1.0119	-0.8312	-0.6926	-0.5930	-0.5270	-0.4872	-0.4651	-0.4509							
x for ERF eq	7	-0.3811	-0.3742	-0.3784	-0.4006	-0.4487	-0.5287	-0.6506	-0.8085	-1.0225	-1.2974	-1.5895	-1.8427	-1.9399	-1.8109	-1.5486	-1.2705	-1.0260	-0.8282	-0.6763	-0.5655	-0.4897	-0.4415	-0.4126	-0.3942							

FLD_S56	MSI	UAV Deck	SHORTCRESTED	19.7	0	17.5707	18.4455	20.0411	21.7173	22.9763	23.4467	23.5100	21.6916	19.7132	17.3724	15.2621	13.7196	13.0994	13.6740	15.2302	17.3314	19.5569	21.3342	22.4109	22.5935	21.8882	20.5187	18.9179	17.7396	0 kts
FLD_S56	MSI	UAV Deck	SHORTCRESTED	19.7	2	23.0408	23.7083	24.6892	25.5342	25.7885	25.1699	23.3420	21.1134	17.9897	14.7640	11.9049	10.0274	9.2816	10.0572	12.0107	14.8592	17.9157	20.7478	22.8901	24.1159	24.4885	24.4451	23.4679	22.9675	2 kts
FLD_S56	MSI	UAV Deck	SHORTCRESTED	19.7	4	28.2538	28.7545	29.2104	29.2840	28.7900	26.9973	24.3494	20.7755	16.5838	12.3847	8.8817	6.7305	6.0297	6.8430	9.1684	12.6427	16.0005	20.4078	23.5669	25.8566	27.1971	27.9853	27.9060	27.9619	4 kts
FLD_S56	MSI	UAV Deck	SHORTCRESTED	19.7	6	33.0226																								

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	19.7	0	0.66	0.70	0.77	0.84	0.89	0.92	0.91	0.86	0.80	0.72	0.65	0.61	0.62	0.67	0.75	0.84	0.91	0.96	0.96	0.94	0.88	0.80	0.72	0.66	0 kts
FLD_S56	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	19.7	2	0.73	0.77	0.83	0.89	0.93	0.94	0.91	0.86	0.78	0.69	0.61	0.56	0.57	0.63	0.71	0.82	0.90	0.95	0.97	0.96	0.91	0.84	0.78	0.73	2 kts
FLD_S56	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	19.7	4	0.80	0.84	0.89	0.94	0.97	0.96	0.92	0.85	0.76	0.66	0.57	0.52	0.53	0.60	0.69	0.80	0.89	0.95	0.95	0.90	0.84	0.80	0.76	4 kts	
FLD_S56	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	19.7	6	0.88	0.92	0.96	1.00	1.01	0.99	0.93	0.85	0.74	0.63	0.54	0.48	0.50	0.56	0.66	0.78	0.88	0.95	1.00	1.01	0.99	0.95	0.91	0.88	6 kts
FLD_S56	VERTICAL	VELOCITY	Bridge Wing	SHORTCRESTED	19.7	7	0.92	0.95	0.99	1.02	1.03	1.00	0.94	0.85	0.74	0.62	0.52	0.47	0.48	0.55	0.65	0.77	0.87	0.96	1.01	1.03	1.02	0.98	0.95	0.92	7 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S56	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	0	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0 kts	
FLD_S56	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	2	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	2 kts
FLD_S56	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	4	0.06	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.06	4 kts
FLD_S56	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	6	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.07	0.07	6 kts
FLD_S56	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	19.7	7	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.08	0.08	7 kts

We	0	0.7010	0.7084	0.7234	0.7384	0.7503	0.7590	0.7639	0.7645	0.7601	0.7477	0.7252	0.6972	0.6797	0.6835	0.6997	0.7168	0.7307	0.7412	0.7480	0.75	0.7507	0.7437	0.7289	0.7100					
We	2	0.7328	0.7380	0.7477	0.7571	0.7643	0.7686	0.7693	0.7658	0.7556	0.7355	0.7028	0.6642	0.6430	0.6524	0.6776	0.7028	0.7227	0.7378	0.7488	0.7522	0.7595	0.7576	0.7495	0.7382					
We	4	0.7624	0.7656	0.7713	0.7766	0.7798	0.7803	0.7774	0.7698	0.7542	0.7264	0.6824	0.6309	0.6050	0.6221	0.6577	0.6912	0.7174	0.7342	0.7432	0.7463	0.7504	0.7526	0.7472	0.7647					
We	6	0.7899	0.7919	0.7949	0.7967	0.7966	0.7936	0.7873	0.7757	0.7555	0.7208	0.6651	0.5998	0.5693	0.5947	0.6410	0.6825	0.7171	0.7493	0.7583	0.7729	0.7835	0.7898	0.7918	0.7905					
We	7	0.8036	0.8050	0.8066	0.8069	0.8053	0.8009	0.7930	0.7797	0.7574	0.7193	0.6585	0.5860	0.5535	0.5831	0.6343	0.6746	0.7146	0.7505	0.7625	0.7788	0.7912	0.7993	0.8031	0.8036					
Mu(MSI)	0	-0.7638	-0.7670	-0.7731	-0.7788	-0.7829	-0.7857	-0.7873	-0.7874	-0.7861	-0.7820	-0.7738	-0.7621	-0.7538	-0.7558	-0.7681	-0.795	-0.8295	-0.8721	-0.8833	-0.8830	-0.8806	-0.8752	-0.8677						
Mu(MSI)	2	-0.7767	-0.7786	-0.7820	-0.7851	-0.7874	-0.7887	-0.7889	-0.7878	-0.7846	-0.7777	-0.7646	-0.7457	-0.7337	-0.7321	-0.7327	-0.7481	-0.7729	-0.7785	-0.7824	-0.7848	-0.7859	-0.7853	-0.7826	-0.7787					
Mu(MSI)	4	-0.7868	-0.7878	-0.7885	-0.7910	-0.7919	-0.7921	-0.7913	-0.7890	-0.7842	-0.7743	-0.7551	-0.7262	-0.7085	-0.7046	-0.7052	-0.7206	-0.7322	-0.759	-0.7707	-0.7783	-0.7835	-0.7871	-0.7892	-0.7899	-0.7892	-0.7875			
Mu(MSI)	6	-0.7947	-0.7952	-0.7959	-0.7964	-0.7964	-0.7956	-0.7940	-0.7908	-0.7846	-0.7721	-0.7462	-0.7047	-0.6801	-0.6801	-0.706	-0.7255	-0.7552	-0.7697	-0.7791	-0.7855	-0.7900	-0.7929	-0.7946	-0.7952	-0.7948				
Mu(MSI)	7	-0.7981	-0.7984	-0.7988	-0.7989	-0.7985	-0.7974	-0.7955	-0.7919	-0.7852	-0.7715	-0.7426	-0.6940	-0.6659	-0.6691	-0.714	-0.7337	-0.7696	-0.7798	-0.7868	-0.7916	-0.7950	-0.7970	-0.7980	-0.7981					
Abs(s3db dot)	0	0.3679	0.3960	0.4441	0.4944	0.5338	0.5542	0.5518	0.5268	0.4829	0.4279	0.3741	0.3291	0.3338	0.3659	0.4214	0.4819	0.5330	0.5659	0.5756	0.5610	0.5244	0.4723	0.4166	0.3756					
Abs(s3db dot)	2	0.4260	0.4522	0.4945	0.5364	0.5655	0.5745	0.5602	0.5232	0.4679	0.4027	0.3407	0.2991	0.2981	0.3296	0.3909	0.4590	0.5189	0.5615	0.5816	0.5776	0.5516	0.5099	0.4638	0.4304					
Abs(s3db dot)	4	0.4894	0.5134	0.5497	0.5829	0.6015	0.5986	0.5720	0.5229	0.4562	0.3808	0.3102	0.2630	0.2571	0.2958	0.3632	0.4388	0.5077	0.5604	0.5914	0.5986	0.5837	0.5527	0.5165	0.4907					
Abs(s3db dot)	6	0.5575	0.5788	0.6087	0.6327	0.6404	0.6256	0.5867	0.5257	0.4480	0.3631	0.2821	0.2321	0.2251	0.2670	0.3398	0.4223	0.5000	0.5629	0.6050	0.6239	0.6209	0.6013	0.5751	0.5564					
Abs(s3db dot)	7	0.5929	0.6127	0.6391	0.6585	0.6607	0.6400	0.5952	0.5285	0.4456	0.3562	0.2745	0.2093	0.2119	0.2552	0.3302	0.4159	0.4977	0.5656	0.6134	0.6384	0.6415	0.6277	0.6063	0.5910					
x for ERF eq	0	-1.6553	-1.5676	-1.4277	-1.2970	-1.2035	-1.1558	-1.1565	-1.2065	-1.342	-1.58	-1.64	-1.7524	-1.7860	-1.6817	-1.5094	-1.3455	-1.2224	-1.1479	-1.1236	-1.1486	-1.2224	-1.3421	-1.4917	-1.6232					
x for ERF eq	2	-1.4638	-1.3944	-1.2897	-1.1927	-1.1296	-1.1091	-1.1361	-1.2128	-1.346	-1.55	-1.7368	-1.9249	-1.9728	-1.8364	-1.6170	-1.4133	-1.2592	-1.1594	-1.1117	-1.1130	-1.1605	-1.2474	-1.3569	-1.4477					
x for ERF eq	4	-1.2882	-1.2336	-1.1551	-1.0876	-1.0513	-1.0561	-1.1075	-1.205	-1.3073	-1.417	-1.6821	-2.1137	-2.1827	-2.0005	-1.7234	-1.4753	-1.2883	-1.1622	-1.0907	-1.0687	-1.0907	-1.1483	-1.2235	-1.2834					
x for ERF eq	6	-1.1269	-1.0848	-1.0284	-0.9852	-0.9722	-0.9995	-1.100	-1.1994	-1.6489	-1.9776	-2.3033	-2.3978	-2.1607	-1.8201	-1.5271	-1.3076	-1.1554	-1.0611	-1.0165	-1.0143	-1.0449	-1.0920	-1.1286						
x for ERF eq	7	-1.0515	-1.0150	-0.9683	-0.9357	-0.9329	-0.970	-1.0538	-1.158	-1.37	-1.6713	-2.0272	-2.3917	-2.4989	-2.2328	-1.8616	-1.5475	-1.3129	-1.1484	-1.0428	-0.9873	-0.9737	-0.9922	-1.0275	-1.0551					
MSI Limit		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

FLD_S56	MSI	Bridge Wing	SHORTCRESTED	19.7	0	4.8530	5.8894	7.6507	9.7539	11.4357	12.3792	12.585	11.3790	9.6210	7.3631	5.3472	3.9795	3.7077	4.6421	6.5871	8.8759	11.0897	12.5448	13.0750	12.5304	11.0904	8.9339	6.7942	5.2099	0 kts	
FLD_S56	MSI	Bridge Wing	SHORTCRESTED	19.7	2	7.1232	8.1778	9.9042	11.6401	12.9429	13.9960	12.8001	11.2648	8.9320	6.4302	4.1301	2.7506	2.4630	3.3033	5.2854	7.8851	10.4343	12.3048	13.3392	13.3391	12.2827	10.6466	8.6977	7.3340	2 kts	
FLD_S56	MSI	Bridge Wing	SHORTCRESTED	19.7	4	9.5132	10.8899	12.3939	13.6682	14.6999	15.6333	13.4331	11.3069	8.5026	5.5990	3.1219	1.7453	1.4691	2.2971	4.2659	6.9840	9.9114	12.2476	13.8013	14.2818	13.8021	12.5367	11.0705	9.9992	4 kts	
FLD_S56	MSI	Bridge Wing	SHORTCRESTED	19.7	6	13.0028	13.9293	15.2127	16.2506	16.56	17.0999	15.122	14.1847	11.4922	8.2464	4.9114	2.4345	1.0879	0.8038	1.5571	3.4339	6.3749	9.5581	12.3861	14.4516	15.4999	15.5523	14.8206	13.7738	12.9648	6 kts
FLD_S56	MSI	Bridge Wing	SHORTCRESTED	19.7	7	14.6664	15.5349	16.6556	17.462	17.5332	17.6125	14.6140	11.6554	8.1875	4.7229	2.1301	0.8138	0.6021	1.2626	3.1254	6.1303	9.4607	12.5350	14.8694	16.2018	16.5248	16.0843	15.2347	14.5854	7 kts	

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VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7	0	1.32	1.34	1.36	1.38	1.38	1.37	1.33	1.29	1.24	1.19	1.16	1.14	1.14	1.16	1.19	1.23	1.27	1.30	1.33	1.34	1.34	1.33	1.31	1.31	0 kts
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7	2	1.46	1.47	1.48	1.48	1.45	1.41	1.34	1.27	1.19	1.13	1.08	1.06	1.05	1.07	1.11	1.17	1.23	1.29	1.34	1.38	1.41	1.42	1.43	1.44	2 kts
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7	4	1.58	1.59	1.59	1.57	1.52	1.45	1.35	1.25	1.15	1.06	1.00	0.96	0.96	0.99	1.04	1.11	1.19	1.27	1.35	1.42	1.48	1.52	1.54	1.57	4 kts
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7	6	1.70	1.71	1.69	1.65	1.58	1.48	1.36	1.23	1.10	1.00	0.92	0.88	0.87	0.90	0.96	1.05	1.15	1.26	1.37	1.46	1.54	1.60	1.65	1.68	6 kts
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7	7	1.75	1.75	1.74	1.69	1.61	1.50	1.37	1.23	1.09	0.97	0.88	0.83	0.83	0.86	0.93	1.02	1.13	1.25	1.37	1.48	1.57	1.64	1.69	1.73	7 kts
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7																										
FLD_S56	VERTICAL	VELOCITY	Stateroom	SHORTCRESTED	19.7																										

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	0	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.10	0.10	0.10	0 kts
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	2	0.11	0.11	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.08	0.07	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11	2 kts
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	4	0.13	0.13	0.13	0.13	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.13	0.13	4 kts
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	6	0.14	0.14	0.14	0.14	0.13	0.13	0.11	0.10	0.09	0.07	0.06	0.05	0.05	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.14	6 kts
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7	7	0.15	0.15	0.15	0.14	0.14	0.13	0.11	0.10	0.08	0.07	0.06	0.05	0.05	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.15	7 kts
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7																										
FLD_S56	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	19.7																										

We	0	0.7243	0.7292	0.7420	0.7586	0.7743	0.7861	0.7917	0.7893	0.7781	0.7594	0.7375	0.7184	0.7085	0.7110	0.7245	0.7431	0.7616	0.7757	0.7831	0.78	0.7751	0.7612	0.7443	0.7299	
We	2	0.7603	0.7634	0.7719	0.7826	0.7922	0.7979	0.7966	0.7868	0.7666	0.7379	0.7065	0.6804	0.6680	0.6735	0.6941	0.7219	0.7495	0.7719	0.7865	0.7827	0.7914	0.7839	0.7732	0.7640	
We	4	0.7932	0.7952	0.8004	0.8068	0.8114	0.8116	0.8047	0.7877	0.7588	0.7191	0.6762	0.6411	0.6233	0.6351	0.6650	0.7033	0.7407	0.7666	0.7786	0.7766	0.8048	0.8088	0.8068	0.8010	0.7955
We	6	0.8228	0.8238	0.8268	0.8299	0.8307	0.8268	0.8152	0.7925	0.7555	0.7046	0.6486	0.6024	0.5830	0.5964	0.6393	0.6891	0.7444	0.8015	0.8185	0.8269	0.8289	0.8270	0.8200	0.8240	
We	7	0.8365	0.8372	0.8393	0.8411	0.8404	0.8348	0.8213	0.7964	0.7561	0.7003	0.6379	0.5859	0.5644	0.5830	0.6295	0.6891	0.7365	0.7966	0.8071	0.8260	0.8361	0.8398	0.8394	0.8374	

Mu(MSI)	0	-0.7735	-0.7754	-0.7801	-0.7856	-0.7904	-0.7936	-0.7951	-0.7945	-0.7915	-0.7858	-0.7784	-0.7711	-0.7670	-0.7658	-0.7651	-0.764	-0.761	-0.751	-0.7308	-0.7028	-0.7028	-0.7006	-0.7064	-0.7088
Mu(MSI)	2	-0.7861	-0.7871	-0.7897	-0.7927	-0.7953	-0.7967	-0.7964	-0.7938	-0.7881	-0.7786	-0.7662	-0.7541	-0.7478	-0.7466	-0.7467	-0.746	-0.7426	-0.7326	-0.7028	-0.7028	-0.7006	-0.7064	-0.7088	-0.7108
Mu(MSI)	4	-0.7955	-0.7960	-0.7973	-0.7988	-0.7999	-0.7999	-0.7983	-0.7941	-0.7857	-0.7714	-0.7520	-0.7325	-0.7225	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228	-0.7228
Mu(MSI)	6	-0.8024	-0.8026	-0.8032	-0.8038	-0.8039	-0.8032	-0.8007	-0.7953	-0.7846	-0.7654	-0.7370	-0.7066	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916	-0.6916
Mu(MSI)	7	-0.8050	-0.8052	-0.8056	-0.8059	-0.8058	-0.8047	-0.8020	-0.7963	-0.7848	-0.7635	-0.7305	-0.6940	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758	-0.6758

Abs(s3dbldot)	0	0.7619	0.7786	0.8062	0.8350	0.8543	0.8575	0.8423	0.8106	0.7678	0.7222	0.6826	0.6454	0.6464	0.6579	0.6874	0.7276	0.7704	0.8073	0.8315	0.8389	0.8293	0.8070	0.7808	0.7627
Abs(s3dbldot)	2	0.8828	0.8955	0.9113	0.9219	0.9187	0.8966	0.8545	0.7961	0.7289	0.6630	0.6087	0.5733	0.5645	0.5771	0.6166	0.6718	0.7338	0.7932	0.8421	0.8750	0.8903	0.8908	0.8836	0.8787
Abs(s3dbldot)	4	1.0028	1.0117	1.0162	1.0095	0.9847	0.9378	0.8698	0.7856	0.6943	0.6078	0.5380	0.4930	0.4789	0.4993	0.5496	0.6203	0.7017	0.7835	0.8566	0.9142	0.9535	0.9759	0.9868	0.9942
Abs(s3dbldot)	6	1.1163	1.1217	1.1159	1.0935	1.0488	0.9796	0.8877	0.7796	0.6657	0.5597	0.4720	0.4207	0.4043	0.4295	0.4904	0.5761	0.6758	0.7787	0.8744	0.9551	1.0165	1.0589	1.0860	1.1040
Abs(s3dbldot)	7	1.1687	1.1724	1.1622	1.1328	1.0795	1.0002	0.8977	0.7789	0.6550	0.5401	0.4448	0.3799	0.3726	0.4002	0.4659	0.5582	0.6663	0.7786	0.8846	0.9758	1.0472	1.0994	1.1325	1.1548

x for ERF eq	0	-0.8407	-0.8125	-0.7629	-0.7110	-0.6742	-0.6619	-0.6776	-0.7210	-0.7741	-0.8300	-0.8900	-0.9500	-1.0097	-1.0354	-1.0135	-0.9523	-0.8733	-0.7961	-0.7346	-0.6975	-0.6879	-0.7058	-0.7459	-0.7957
x for ERF eq	2	-0.6492	-0.6313	-0.6059	-0.5857	-0.5830	-0.6060	-0.6590	-0.7128	-0.7789	-0.8500	-0.9200	-0.9800	-1.0400	-1.1028	-1.1363	-1.1195	-1.0326	-0.9799	-0.8588	-0.6814	-0.6377	-0.6221	-0.6384	-0.6513
x for ERF eq	4	-0.4874	-0.4765	-0.4685	-0.4718	-0.4962	-0.5490	-0.6348	-0.7360	-0.8511	-0.9712	-1.0913	-1.2114	-1.2723	-1.4158	-1.4721	-1.4112	-1.2636	-1.0856	-0.9148	-0.7703	-0.6588	-0.5326	-0.5086	-0.4999
x for ERF eq	6	-0.3538	-0.3481	-0.3521	-0.3727	-0.4175	-0.4937	-0.5911	-0.7112	-0.8495	-1.0095	-1.1958	-1.4453	-1.6527	-1.7336	-1.6375	-1.4241	-1.1821	-0.9597	-0.7748	-0.6310	-0.5254	-0.4534	-0.4081	-0.3816
x for ERF eq	7	-0.2973	-0.2935	-0.3020	-0.3290	-0.3817	-0.4621	-0.5912	-0.7671	-0.9677	-1.2393	-1.5239	-1.7668	-1.8617	-1.7444	-1.4951	-1.2213	-0.9751	-0.7726	-0.6150	-0.4983	-0.4166	-0.3631	-0.3302	-0.3098

FLD_S56	MSI	Stateroom	SHORTCRESTED	19.7	0	20.0576	20.8448	22.3098	23.8662	25.0197	25.4141	24.8100	23.5647	21.5721	19.2913	17.1565	15.6648	15.0454	15.5720	17.0439	19.1403	21.3159	23.1574	24.2800	24.5819	24.0215	22.8211	21.3257	20.2384	0 kts
FLD_S56	MSI	Stateroom	SHORTCRESTED	19.7	2	25.8256	26.3933	27.2091	27.8791	27.9702	27.2055	25.3889	22.9354	19.7359	16.3985	13.5374	11.5380	10.8422	11.5102	13.5426	16.3776	19.5519	22.5038	24.7899	26.2529	26.8288	26.6868	26.1680	25.7571	2 kts
FLD_S56	MSI	Stateroom	SHORTCRESTED	19.7	4	31.2457	31.6360	31.9235	31.8012	30.9733	29.1324	26.2831	22.5191	18.1008	13.7899	10.1987	7.8443	7.0217	7.9192	10.3560	13.9124	18.0051	22.0841	25.5146	28.0518	29.0848	30.5034	30.8038	30.9679	4 kts
FLD_S56	MSI	Stateroom	SHORTCRESTED	19.7	6	36.1619																								

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	19.7	0	0.54	0.56	0.62	0.72	0.82	0.89	0.93	0.92	0.88	0.81	0.71	0.61	0.53	0.51	0.55	0.63	0.71	0.78	0.83	0.83	0.80	0.74	0.67	0.59	0 kts
FLD_S56	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	19.7	2	0.59	0.60	0.66	0.75	0.84	0.90	0.93	0.92	0.87	0.79	0.68	0.58	0.50	0.48	0.52	0.60	0.70	0.78	0.83	0.85	0.83	0.78	0.70	0.63	2 kts
FLD_S56	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	19.7	4	0.64	0.65	0.71	0.79	0.87	0.92	0.94	0.92	0.86	0.77	0.66	0.55	0.47	0.44	0.49	0.58	0.68	0.77	0.84	0.87	0.86	0.82	0.75	0.68	4 kts
FLD_S56	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	19.7	6	0.71	0.72	0.77	0.84	0.91	0.95	0.96	0.93	0.86	0.76	0.64	0.53	0.44	0.42	0.46	0.56	0.67	0.77	0.85	0.89	0.89	0.86	0.81	0.75	6 kts
FLD_S56	VERTICAL	VELOCITY	Stbd, A-Frame	SHORTCRESTED	19.7	7	0.75	0.75	0.80	0.87	0.93	0.96	0.96	0.93	0.85	0.75	0.63	0.52	0.43	0.41	0.46	0.56	0.67	0.78	0.86	0.90	0.89	0.89	0.84	0.78	7 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S56	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	0	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.04	0 kts		
FLD_S56	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	2	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.06	0.06	0.05	0.05	2 kts
FLD_S56	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	4	0.05	0.05	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.06	0.06	4 kts
FLD_S56	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	6	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.06	6 kts
FLD_S56	VERTICAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	19.7	7	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.07	0.06	7 kts

We	0	0.6880	0.7001	0.7211	0.7353	0.7410	0.7410	0.7379	0.7318	0.7229	0.7101	0.6933	0.6740	0.6552	0.6322	0.6139	0.7378	0.7494	0.7520	0.7517	0.74	0.7393	0.7282	0.7136	0.6969
We	2	0.7147	0.7222	0.7367	0.7453	0.7472	0.7440	0.7375	0.7280	0.7151	0.6974	0.6737	0.6466	0.6321	0.6527	0.6966	0.7305	0.7482	0.7557	0.7550	0.7514	0.7444	0.7341	0.7220	
We	4	0.7401	0.7439	0.7529	0.7570	0.7555	0.7492	0.7397	0.7267	0.7095	0.6862	0.6555	0.6198	0.5978	0.6236	0.6814	0.7257	0.7494	0.7568	0.7568	0.7669	0.7654	0.7614	0.7547	0.7459
We	6	0.7672	0.7685	0.7722	0.7719	0.7665	0.7574	0.7444	0.7277	0.7062	0.6776	0.6397	0.5948	0.5650	0.6688	0.7233	0.7777	0.7790	0.7790	0.7790	0.7811	0.7800	0.7777	0.7714	
We	7	0.7820	0.7825	0.7838	0.7812	0.7738	0.7628	0.7481	0.7295	0.7057	0.6743	0.6328	0.5837	0.5501	0.5831	0.6631	0.7251	0.7545	0.7577	0.7577	0.7613	0.7613	0.7613	0.7585	

Mu(MSI)	0	-0.7578	-0.7634	-0.7722	-0.7776	-0.7797	-0.7786	-0.7768	-0.7768	-0.7728	-0.7677	-0.7603	-0.7509	-0.7463	-0.7558	-0.7681	-0.7951	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	-0.7838	
Mu(MSI)	2	-0.7696	-0.7726	-0.7781	-0.7812	-0.7819	-0.7807	-0.7784	-0.7749	-0.7698	-0.7622	-0.7507	-0.7358	-0.7269	-0.7344	-0.7518	-0.7811	-0.7822	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847	-0.7847
Mu(MSI)	4	-0.7794	-0.7807	-0.7837	-0.7851	-0.7846	-0.7825	-0.7792	-0.7744	-0.7674	-0.7570	-0.7409	-0.7188	-0.7031	-0.7121	-0.7346	-0.7744	-0.7826	-0.7862	-0.7878	-0.7882	-0.7877	-0.7865	-0.7844	-0.7814						
Mu(MSI)	6	-0.7883	-0.7887	-0.7898	-0.7897	-0.7881	-0.7852	-0.7809	-0.7748	-0.7660	-0.7527	-0.7317	-0.7009	-0.6764	-0.701	-0.732	-0.7731	-0.7836	-0.7884	-0.7908	-0.7919	-0.7923	-0.7920	-0.7911	-0.7895						
Mu(MSI)	7	-0.7925	-0.7927	-0.7930	-0.7923	-0.7902	-0.7869	-0.7821	-0.7755	-0.7658	-0.7510	-0.7274	-0.6922	-0.6627	-0.691	-0.728	-0.7843	-0.7896	-0.7924	-0.7939	-0.7946	-0.7948	-0.7943	-0.7934							

Abs(s3dbldot)	0	0.2979	0.3102	0.3596	0.4234	0.4825	0.5252	0.5452	0.5397	0.5090	0.4570	0.3917	0.3143	0.2832	0.2791	0.3143	0.3702	0.4269	0.4712	0.4955	0.4964	0.4742	0.4324	0.3789	0.3271
Abs(s3dbldot)	2	0.3350	0.3452	0.3901	0.4483	0.5011	0.5367	0.5491	0.5356	0.4973	0.4383	0.3672	0.2986	0.2518	0.2485	0.2884	0.3513	0.4160	0.4689	0.5019	0.5112	0.4966	0.4613	0.4126	0.3637
Abs(s3dbldot)	4	0.3793	0.3870	0.4270	0.4791	0.5248	0.5527	0.5567	0.5347	0.4882	0.4219	0.3450	0.2716	0.2231	0.2210	0.2660	0.3359	0.4086	0.4701	0.5121	0.5303	0.5239	0.4956	0.4523	0.4069
Abs(s3dbldot)	6	0.4338	0.4396	0.4737	0.5180	0.5550	0.5738	0.5683	0.5372	0.4821	0.4087	0.3261	0.2494	0.1990	0.1983	0.2481	0.3243	0.4044	0.4745	0.5256	0.5532	0.5358	0.4993	0.4591	
Abs(s3dbldot)	7	0.4654	0.4704	0.5013	0.5411	0.5732	0.5867	0.5761	0.5399	0.4805	0.4036	0.3181	0.2404	0.1893	0.1892	0.2410	0.3200	0.4037	0.4780	0.5337	0.5662	0.5737	0.5582	0.5259	0.4890

x for ERF eq	0	-1.8996	-1.8415	-1.6992	-1.4683	-1.3213	-1.2291	-1.1913	-1.2080	-1.1101	-1.00	-1.5868	-1.8158	-1.9834	-1.9774	-1.8125	-1.6117	-1.4470	-1.3368	-1.2833	-1.2852	-1.3417	-1.4521	-1.6100	-1.7875
x for ERF eq	2	-1.7426	-1.7026	-1.5558	-1.3972	-1.2747	-1.2030	-1.1840	-1.2108	-1.1399	-1.03	-1.6900	-1.9540	-2.1590	-2.1425	-1.9246	-1.6755	-1.4760	-1.3397	-1.2846	-1.2458	-1.2811	-1.3670	-1.4973	-1.6458
x for ERF eq	4	-1.5834	-1.5580	-1.4437	-1.3154	-1.2177	-1.1667	-1.1671	-1.209	-1.2394	-1.26	-1.7823	-2.0970	-2.3504	-2.3147	-2.0304	-1.7285	-1.4944	-1.3331	-1.2363	-1.1975	-1.2118	-1.2751	-1.3797	-1.5020
x for ERF eq	6	-1.4152	-1.3998	-1.3160	-1.2192	-1.1482	-1.1192	-1.1169	-1.1661	-1.5688	-1.8660	-2.2347	-2.5411	-2.4815	-2.1222	-1.7692	-1.5032	-1.3176	-1.2007	-1.1421	-1.1360	-1.1767	-1.2557	-1.3505	
x for ERF eq	7	-1.3282	-1.3164	-1.2464	-1.1651	-1.1079	-1.0957	-1.1227	-1.2071	-1.604	-1.9688	-2.4023	-2.9655	-2.6294	-2.5575	-2.1611	-1.7843	-1.5032	-1.3067	-1.1800	-1.1120	-1.0959	-1.1253	-1.1912	-1.2724

FLD_S56	MSI	Stbd, A-Frame	SHORTCRESTED	19.7	0	2.9023	3.2634	4.8202	7.0680	9.3043	10.9698	11.9777	11.3525	10.0582	7.9379	5.5483	3.4688	2.3996	2.4357	3.4962	5.3517	7.3459	9.0263	10.0005	9.9671	8.9412	7.2723	5.3742	3.6963	0 kts	
FLD_S56	MSI	Stbd, A-Frame	SHORTCRESTED	19.7	2	4.0728	4.4752	6.0290	8.1394	10.1547	11.4440	11.8889	11.1370	9.4532	7.0554	4.5787	2.5758	1.5639	1.6299	2.7522	4.6898	6.9754	8.9751	10.3377	10.6742	10.0395	8.5547	6.7306	4.9451	2 kts	
FLD_S56	MSI	Stbd, A-Frame	SHORTCRESTED	19.7	4	5.0997	6.0036	7.3967	9.4136	11.5058	12.5578	12.1547	12.1467	11.0807	8.9857	6.4164	3.7361	1.8108	0.8989	1.0427	2.1111	4.2142	6.7636	9.0914	10.8431	11.5485	11.2823	10.1488	8.3797	6.6766	4 kts
FLD_S56	MSI	Stbd, A-Frame	SHORTCRESTED	19.7	6	7.8541	8.1032	9.4020	11.1487	12.5578	12.5578	12.7049	11.1895	8.7099	5.8738	3.0979	1.2553	0.5134	0.6370	1.7112	3.8398	6.6617	9.3733	11.4877	12.6694	12.8028	11.9527	10.4982	8.7924	6 kts	
FLD_S56	MSI	Stbd, A-Frame	SHORTCRESTED	19.7	7	9.1802	9.3948	10.6641	12.1877	13.4244	13.4244	13.3210	8.6483	5.6584	2.8663	1.1079	0.4470	0.4985	1.5555	3.7212	6.6617	9.5753	11.8888	13.3311	13.6897	13.0371	11.6696	10.1970	7 kts		
MSI	MSI Limit			</																											

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Coring_Aft	SHORTCRESTED	19.7	0	1.37	1.38	1.38	1.37	1.35	1.34	1.32	1.31	1.29	1.27	1.25	1.22	1.20	1.18	1.17	1.16	1.17	1.19	1.21	1.24	1.27	1.30	1.33	1.36	0 kts
FLD_S56	VERTICAL	VELOCITY	Coring_Aft	SHORTCRESTED	19.7	2	1.43	1.43	1.43	1.41	1.38	1.35	1.32	1.28	1.24	1.20	1.16	1.12	1.09	1.07	1.07	1.08	1.11	1.15	1.20	1.25	1.30	1.34	1.38	1.41	2 kts
FLD_S56	VERTICAL	VELOCITY	Coring_Aft	SHORTCRESTED	19.7	4	1.47	1.48	1.47	1.44	1.41	1.36	1.31	1.25	1.18	1.12	1.07	1.02	0.98	0.97	0.98	1.01	1.06	1.12	1.19	1.26	1.32	1.37	1.42	1.45	4 kts
FLD_S56	VERTICAL	VELOCITY	Coring_Aft	SHORTCRESTED	19.7	6	1.51	1.52	1.51	1.48	1.43	1.37	1.30	1.22	1.13	1.05	0.98	0.92	0.88	0.87	0.89	0.94	1.01	1.09	1.18	1.27	1.34	1.41	1.45	1.49	6 kts
FLD_S56	VERTICAL	VELOCITY	Coring_Aft	SHORTCRESTED	19.7	7	1.53	1.54	1.53	1.50	1.45	1.38	1.30	1.21	1.11	1.02	0.94	0.87	0.83	0.82	0.85	0.90	0.99	1.08	1.18	1.28	1.36	1.43	1.48	1.51	7 kts
FLD_S56	VERTICAL	VELOCITY	Coring_Aft	SHORTCRESTED	19.7																										

VERTICAL ACCELERATION

FLD_S56	VERTICAL	ACCELERATION	Coring_Aft	SHORTCRESTED	19.7	0	0.10	0.10	0.10	0.10	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0 kts	
FLD_S56	VERTICAL	ACCELERATION	Coring_Aft	SHORTCRESTED	19.7	2	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.11	2 kts
FLD_S56	VERTICAL	ACCELERATION	Coring_Aft	SHORTCRESTED	19.7	4	0.12	0.12	0.12	0.12	0.12	0.11	0.10	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	4 kts
FLD_S56	VERTICAL	ACCELERATION	Coring_Aft	SHORTCRESTED	19.7	6	0.13	0.13	0.13	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05	0.05	0.06	0.06	0.07	0.09	0.10	0.11	0.11	0.12	0.12	0.13	0.13	6 kts
FLD_S56	VERTICAL	ACCELERATION	Coring_Aft	SHORTCRESTED	19.7	7	0.13	0.13	0.13	0.13	0.12	0.12	0.11	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.07	0.08	0.10	0.11	0.11	0.12	0.12	0.13	0.13	7 kts
FLD_S56	VERTICAL	ACCELERATION	Coring_Aft	SHORTCRESTED	19.7																											

We	0	0.7291	0.7325	0.7417	0.7537	0.7654	0.7731	0.7747	0.7693	0.7574	0.7420	0.7262	0.7134	0.7070	0.7090	0.7196	0.7360	0.7536	0.7675	0.7743	0.777	0.7652	0.7534	0.7412	0.7322									
We	2	0.7643	0.7666	0.7728	0.7798	0.7847	0.7846	0.7773	0.7626	0.7419	0.7181	0.6953	0.6779	0.6695	0.6732	0.6891	0.7132	0.7397	0.7627	0.7784	0.7827	0.7855	0.7799	0.7726	0.7665									
We	4	0.7977	0.7990	0.8027	0.8056	0.8049	0.7981	0.7830	0.7596	0.7291	0.6952	0.6635	0.6393	0.6231	0.6345	0.6579	0.6923	0.7295	0.7628	0.7868	0.8002	0.8062	0.8062	0.8027	0.7990									
We	6	0.8294	0.8301	0.8313	0.8309	0.8257	0.8133	0.7918	0.7606	0.7205	0.6751	0.6318	0.5981	0.5823	0.5925	0.6268	0.6746	0.7246	0.7657	0.7964	0.8165	0.8278	0.8319	0.8320	0.8303									
We	7	0.8451	0.8455	0.8456	0.8434	0.8362	0.8216	0.7976	0.7633	0.7190	0.6684	0.6193	0.5806	0.5625	0.5750	0.6151	0.6671	0.7244	0.7777	0.8031	0.8254	0.8386	0.8447	0.8463	0.8457									
We																																		
Mu(MSI)	0	-0.7753	-0.7766	-0.7799	-0.7840	-0.7877	-0.7900	-0.7905	-0.7889	-0.7852	-0.7801	-0.7742	-0.7691	-0.7664	-0.7671	-0.7701	-0.7799	-0.7979	-0.8211	-0.8384	-0.8484	-0.8484	-0.8419	-0.8284	-0.8084	-0.7844	-0.7584	-0.7324	-0.7064	-0.6804	-0.6544	-0.6284		
Mu(MSI)	2	-0.7874	-0.7881	-0.7899	-0.7919	-0.7933	-0.7932	-0.7912	-0.7868	-0.7800	-0.7710	-0.7612	-0.7529	-0.7486	-0.7505	-0.7583	-0.7741	-0.7992	-0.8289	-0.8527	-0.8684	-0.8754	-0.8726	-0.8554	-0.8324	-0.8044	-0.7724	-0.7384	-0.7044	-0.6704	-0.6364	-0.6024		
Mu(MSI)	4	-0.7966	-0.7970	-0.7979	-0.7986	-0.7984	-0.7967	-0.7928	-0.7859	-0.7759	-0.7612	-0.7454	-0.7314	-0.7244	-0.7284	-0.7421	-0.7598	-0.7858	-0.8123	-0.8358	-0.8513	-0.8583	-0.8555	-0.8355	-0.8085	-0.7765	-0.7425	-0.7085	-0.6745	-0.6405	-0.6065	-0.5725		
Mu(MSI)	6	-0.8037	-0.8038	-0.8041	-0.8040	-0.8029	-0.8003	-0.7952	-0.7862	-0.7720	-0.7515	-0.7267	-0.7034	-0.6910	-0.699	-0.7255	-0.7512	-0.7733	-0.7878	-0.7963	-0.8010	-0.8034	-0.8042	-0.8042	-0.8042	-0.8039								
Mu(MSI)	7	-0.8066	-0.8067	-0.8067	-0.8063	-0.8050	-0.8021	-0.7966	-0.7871	-0.7714	-0.7480	-0.7185	-0.6897	-0.6742	-0.686	-0.7186	-0.7434	-0.7690	-0.7904	-0.7980	-0.8029	-0.8054	-0.8065	-0.8068	-0.8067									
Mu(MSI)																																		
Abs(s3dbldot)	0	0.7986	0.8062	0.8143	0.8218	0.8266	0.8263	0.8189	0.8037	0.7813	0.7537	0.7242	0.6921	0.6761	0.6669	0.6703	0.6842	0.7046	0.7273	0.7485	0.7654	0.7769	0.7838	0.7880	0.7924									
Abs(s3dbldot)	2	0.8709	0.8773	0.8798	0.8789	0.8651	0.8459	0.8158	0.7770	0.7323	0.6857	0.6420	0.605	0.5838	0.5762	0.5889	0.6178	0.6547	0.7010	0.7445	0.7826	0.8129	0.8349	0.8503	0.8617									
Abs(s3dbldot)	4	0.9264	0.9418	0.9400	0.9286	0.9049	0.8673	0.8164	0.7551	0.6884	0.6226	0.5642	0.5187	0.4921	0.4898	0.5127	0.5567	0.6154	0.6808	0.7453	0.8025	0.8491	0.8838	0.9081	0.9249									
Abs(s3dbldot)	6	1.0006	1.0053	0.9997	0.9807	0.9453	0.8920	0.8220	0.7396	0.6516	0.5664	0.4944	0.4374	0.4075	0.4093	0.4432	0.5034	0.5816	0.6674	0.7516	0.8266	0.8879	0.9338	0.9659	0.9874									
Abs(s3dbldot)	7	1.0347	1.0388	1.0311	1.0084	0.9672	0.9065	0.8277	0.7356	0.6379	0.5440	0.463	0.398	0.3724	0.3762	0.4151	0.4827	0.5696	0.6647	0.7578	0.8410	0.9093	0.9609	0.9968	1.0207									
Abs(s3dbldot)																																		
x for ERF eq	0	-0.7851	-0.7716	-0.7524	-0.7322	-0.7166	-0.7113	-0.7198	-0.7442	-0.7811	-0.8260	-0.8761	-0.9247	-0.9681	-1.0009	-0.9844	-0.9465	-0.8993	-0.8539	-0.8178	-0.7944	-0.7839	-0.7885	-0.7906										
x for ERF eq	2	-0.6608	-0.6510	-0.6434	-0.6420	-0.6520	-0.6777	-0.7222	-0.7859	-0.8699	-0.9641	-1.0573	-1.1413	-1.1951	-1.2017	-1.1583	-1.0804	-0.9876	-0.8976	-0.8207	-0.7614	-0.7204	-0.6952	-0.6805	-0.6706									
x for ERF eq	4	-0.5590	-0.5518	-0.5517	-0.5632	-0.5917	-0.6419	-0.7174	-0.8193	-0.9462	-1.0928	-1.2372	-1.3634	-1.4381	-1.4389	-1.2156	-1.0676	-0.9298	-0.8144	-0.7249	-0.6601	-0.6165	-0.5892	-0.5715										
x for ERF eq	6	-0.4693	-0.4638	-0.4694	-0.4904	-0.5329	-0.6025	-0.7111	-0.8444	-1.0177	-1.2177	-1.4311	-1.6184	-1.7264	-1.7014	-1.5540	-1.3462	-1.1344	-0.9486	-0.7984	-0.6834	-0.5999	-0.5430	-0.5063	-0.4833									
x for ERF eq	7	-0.4256	-0.4211	-0.4292	-0.4543	-0.5028	-0.5807	-0.6930	-0.8401	-1.0288	-1.2702	-1.5180	-1.7395	-1.8661	-1.8282	-1.6446	-1.3984	-1.1568	-0.9501	-0.7853	-0.6599	-0.5687	-0.5062	-0.4656	-0.4402									
x for ERF eq																																		

FLD_S56	MSI	Coring_Aft	SHORTCRESTED	19.7	0	21.6419	22.0447	22.6270	23.2288	23.6951	23.8566	23.5988	22.8716	21.6697	20.1870	18.5650	17.1315	16.1813	15.8791	16.2698	17.1877	18.4196	19.6892	20.6957	21.3652	21.6
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VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	ROV	SHORTCRESTED	19.7	0	0.95	0.97	1.00	1.03	1.07	1.10	1.11	1.10	1.08	1.03	0.97	0.91	0.86	0.83	0.82	0.85	0.88	0.91	0.94	0.96	0.96	0.96	0.95	0.94	0 kts
FLD_S56	VERTICAL	VELOCITY	ROV	SHORTCRESTED	19.7	2	0.98	1.00	1.03	1.06	1.09	1.10	1.11	1.08	1.04	0.98	0.91	0.84	0.78	0.75	0.76	0.79	0.84	0.89	0.93	0.96	0.97	0.97	0.97	0.97	2 kts
FLD_S56	VERTICAL	VELOCITY	ROV	SHORTCRESTED	19.7	4	1.00	1.02	1.05	1.08	1.11	1.11	1.10	1.07	1.01	0.94	0.85	0.77	0.71	0.68	0.69	0.74	0.81	0.87	0.93	0.97	0.99	0.99	0.99	0.99	4 kts
FLD_S56	VERTICAL	VELOCITY	ROV	SHORTCRESTED	19.7	6	1.03	1.05	1.08	1.11	1.13	1.13	1.10	1.05	0.98	0.89	0.80	0.71	0.64	0.62	0.64	0.70	0.78	0.86	0.93	0.98	1.01	1.02	1.02	1.02	6 kts
FLD_S56	VERTICAL	VELOCITY	ROV	SHORTCRESTED	19.7	7	1.05	1.07	1.10	1.13	1.14	1.14	1.11	1.05	0.97	0.88	0.78	0.68	0.61	0.59	0.61	0.68	0.77	0.85	0.93	0.99	1.02	1.03	1.04	1.04	7 kts

VERTICAL ACCELERATION

FLD_S56	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	19.7	0	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0 kts
FLD_S56	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	19.7	2	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	2 kts	
FLD_S56	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	19.7	4	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	4 kts
FLD_S56	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	19.7	6	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	6 kts
FLD_S56	VERTICAL	ACCELERATION	ROV	SHORTCRESTED	19.7	7	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	7 kts

We	0	0.7226	0.7266	0.7358	0.7458	0.7537	0.7575	0.7571	0.7523	0.7438	0.7320	0.7182	0.7053	0.6966	0.6972	0.7081	0.7245	0.7397	0.7504	0.7554	0.755	0.7504	0.7422	0.7325	0.7248	
We	2	0.7549	0.7578	0.7630	0.7676	0.7687	0.7655	0.7577	0.7457	0.7300	0.7109	0.6903	0.6719	0.6608	0.6655	0.6817	0.7071	0.7305	0.7484	0.7597	0.7625	0.7669	0.7647	0.7603	0.7560	
We	4	0.7849	0.7867	0.7888	0.7889	0.7843	0.7750	0.7611	0.7420	0.7185	0.6910	0.6621	0.6361	0.6212	0.6274	0.6560	0.6930	0.7254	0.7478	0.7568	0.758	0.7778	0.7844	0.7871	0.7869	0.7853
We	6	0.8145	0.8150	0.8144	0.8102	0.8015	0.7869	0.7672	0.7417	0.7105	0.6740	0.6347	0.5984	0.5775	0.5884	0.6308	0.6822	0.7171	0.7351	0.7365	0.7351	0.7365	0.7365	0.7365	0.7365	0.7365
We	7	0.8296	0.8297	0.8276	0.8216	0.8105	0.7938	0.7715	0.7432	0.7086	0.6679	0.6237	0.5826	0.5588	0.5721	0.6219	0.6707	0.7255	0.7601	0.7789	0.7829	0.8003	0.8129	0.8216	0.8266	0.8288

Mu(MSI)	0	-0.7728	-0.7744	-0.7778	-0.7814	-0.7840	-0.7853	-0.7851	-0.7836	-0.7807	-0.7764	-0.7711	-0.7657	-0.7618	-0.7674	-0.7851	-0.8095	-0.8351	-0.8547	-0.8671	-0.8759	-0.8828	-0.8846	-0.8845	-0.8829	-0.8801	-0.8766	-0.8737
Mu(MSI)	2	-0.7844	-0.7853	-0.7870	-0.7884	-0.7887	-0.7878	-0.7853	-0.7813	-0.7757	-0.7680	-0.7589	-0.7498	-0.7439	-0.7524	-0.7781	-0.8095	-0.8419	-0.8681	-0.8871	-0.8997	-0.9066	-0.9082	-0.9066	-0.9039	-0.9012	-0.8977	-0.8944
Mu(MSI)	4	-0.7933	-0.7938	-0.7944	-0.7944	-0.7932	-0.7906	-0.7864	-0.7800	-0.7712	-0.7592	-0.7446	-0.7294	-0.7198	-0.7236	-0.7547	-0.7939	-0.8392	-0.8812	-0.9179	-0.9469	-0.9673	-0.9787	-0.9811	-0.9749	-0.9693	-0.9645	-0.9603
Mu(MSI)	6	-0.8006	-0.8007	-0.8006	-0.7996	-0.7976	-0.7939	-0.7883	-0.7799	-0.7679	-0.7509	-0.7286	-0.7036	-0.6871	-0.6948	-0.7301	-0.7791	-0.8351	-0.8951	-0.9551	-1.0151	-1.0751	-1.1351	-1.1951	-1.2551	-1.3151	-1.3751	
Mu(MSI)	7	-0.8037	-0.8037	-0.8033	-0.8021	-0.7997	-0.7957	-0.7896	-0.7805	-0.7671	-0.7477	-0.7215	-0.6913	-0.6708	-0.6811	-0.7211	-0.7751	-0.8351	-0.8951	-0.9551	-1.0151	-1.0751	-1.1351	-1.1951	-1.2551	-1.3151	-1.3751	

Abs(s3dbldot)	0	0.5489	0.5631	0.5868	0.6153	0.6427	0.6628	0.6703	0.6626	0.6390	0.6020	0.5568	0.5055	0.4763	0.4599	0.4657	0.4886	0.5189	0.5472	0.5676	0.5769	0.5753	0.5659	0.5541	0.5465	
Abs(s3dbldot)	2	0.5892	0.6038	0.6254	0.6486	0.6669	0.6748	0.6682	0.6455	0.6074	0.5575	0.5020	0.4502	0.4121	0.3985	0.4119	0.4461	0.4896	0.5315	0.5649	0.5862	0.5950	0.5941	0.5885	0.5848	
Abs(s3dbldot)	4	0.6262	0.6412	0.6617	0.6810	0.6920	0.6892	0.6696	0.6324	0.5797	0.5167	0.4609	0.3924	0.3522	0.3414	0.3653	0.4096	0.4663	0.5214	0.5672	0.5993	0.6172	0.6230	0.6177	0.6204	
Abs(s3dbldot)	6	0.6680	0.6831	0.7022	0.7173	0.7211	0.7080	0.6755	0.6242	0.5573	0.4811	0.4011	0.3211	0.2991	0.2965	0.2893	0.3205	0.3791	0.4490	0.5170	0.5748	0.6177	0.6445	0.6568	0.6597	0.6610
Abs(s3dbldot)	7	0.6937	0.7085	0.7263	0.7388	0.7384	0.7199	0.6810	0.6229	0.5493	0.4672	0.3866	0.3076	0.2741	0.2685	0.3040	0.3680	0.4436	0.5176	0.5813	0.6296	0.6612	0.6774	0.6831	0.6860	

x for ERF eq	0	-1.1983	-1.1668	-1.1134	-1.0530	-0.9991	-0.9627	-0.9506	-0.9672	-1.0077	-1.0737	-1.1591	-1.2591	-1.2927	-1.3800	-1.4173	-1.3917	-1.3228	-1.2435	-1.1765	-1.1327	-1.1151	-1.1221	-1.1471	-1.1787	-1.2010	
x for ERF eq	2	-1.0924	-1.0636	-1.0213	-0.9783	-0.9472	-0.9368	-0.9536	-1.0099	-1.0899	-1.1935	-1.3101	-1.4712	-1.5812	-1.6148	-1.5555	-1.4394	-1.3149	-1.2097	-1.1344	-1.0896	-1.0724	-1.0757	-1.0895	-1.0997		
x for ERF eq	4	-1.0041	-0.9771	-0.9415	-0.9103	-0.8960	-0.9068	-0.9487	-1.0267	-1.1332	-1.2733	-1.4581	-1.6714	-1.8127	-1.8362	-1.7254	-1.5480	-1.3727	-1.2293	-1.1245	-1.0566	-1.0201	-1.0082	-1.0106	-1.0139		
x for ERF eq	6	-0.9158	-0.8912	-0.8616	-0.8409	-0.8403	-0.8694	-0.9284	-1.0117	-1.1243	-1.2663	-1.4396	-1.6396	-1.8442	-1.9861	-1.8994	-1.6448	-1.4149	-1.2343	-1.1029	-1.0140	-0.9613	-0.9368	-0.9302	-0.9275		
x for ERF eq	7	-0.8669	-0.8440	-0.8181	-0.8027	-0.8092	-0.8466	-0.9223	-1.0100	-1.1200	-1.2430	-1.3860	-1.5513	-1.7283	-1.9961	-2.2075	-2.2007	-1.9713	-1.6801	-1.4263	-1.2298	-1.0863	-0.9882	-0.9278	-0.8969	-0.8852	-0.8794

FLD_S56	MSI	ROV	SHORTCRESTED	19.7	0	11.5319	12.1535	13.3008	14.6312	15.9209	16.7905	17.8573	16.6820	15.5678	13.8361	11.7437	9.8316	8.3750	7.8199	8.2147	9.2772	10.7147	11.9577	12.8737	13.2630	13.1075	12.5626	11.9132	11.4806	0 kts
FLD_S56	MSI	ROV	SHORTCRESTED	19.7	2	13.7648	14.3950	15.3926	16.4147	17.1691	17.4333	17.8814	15.8740	14.0049	11.6238	9.1454	7.0331	5.7255	5.3137	6.0343	7.4631	9.4234	11.3208	12.8380	13.8245	14.2013	14.1274	13.8273	13.6055	2 kts
FLD_S56	MSI	ROV	SHORTCRESTED	19.7	4	15.8099	16.4435	17.3131	18.1232	18.7093	18.7164	17.1114	15.2338	12.6454	9.7350	6.9004	4.7220	3.4946	3.3047	4.2459	6.1243	8.4760	10.9669	13.0540	14.5211	15.1088	15.7013	15.6412	15.623	4 kts
FLD_S56	MSI	ROV	SHORTCRESTED	19.7	6	17.9780	18.6409	19.4707	20.0526	20.0693	18.2511	17.4943	14.9078	11.6095	8.1512	5.0153	2.9327	1.8699	1.8514	2.9032	4.9570	7.8592	10.8774	13.5347	15.5588	16.8242	17.4325	17.6032	17.6716	6 kts
FLD_S56	MSI	ROV	SHORTCRESTED	19.7	7	19.3207	19.9670	20.6872	21.123	20.9379	18.879	17.8067	14.8874	11.2785	7.5167	4.4190	2.3232	1.3674	1.3971	2.4720	4.6545	7.6721	10.9583	13.8973	16.1790	17.6647	18.4855	18.8085	18.9693	7 kts
MSI Limit																														

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	19.7	0	1.43	1.45	1.46	1.47	1.47	1.45	1.41	1.37	1.32	1.28	1.25	1.24	1.24	1.25	1.27	1.30	1.34	1.38	1.41	1.43	1.44	1.43	1.43	1.43	0 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	19.7	2	1.58	1.59	1.59	1.58	1.54	1.49	1.42	1.34	1.27	1.21	1.17	1.14	1.14	1.16	1.19	1.23	1.29	1.36	1.42	1.47	1.51	1.54	1.55	1.57	2 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	19.7	4	1.72	1.72	1.71	1.67	1.62	1.53	1.43	1.32	1.22	1.14	1.08	1.04	1.04	1.06	1.10	1.17	1.25	1.34	1.43	1.51	1.58	1.63	1.67	1.70	4 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	19.7	6	1.84	1.84	1.81	1.76	1.68	1.57	1.44	1.30	1.17	1.06	0.99	0.95	0.94	0.96	1.02	1.10	1.20	1.32	1.44	1.55	1.65	1.72	1.78	1.82	6 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Fwd	SHORTCRESTED	19.7	7	1.89	1.89	1.86	1.80	1.71	1.59	1.45	1.30	1.15	1.03	0.95	0.90	0.89	0.92	0.98	1.07	1.19	1.31	1.45	1.57	1.68	1.76	1.83	1.87	7 kts

VERTICAL ACCELERATION

FLD_S56	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	19.7	0	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	19.7	2	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.11	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.12	2 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	19.7	4	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.11	0.09	0.08	0.07	0.07	0.07	0.07	0.08	0.09	0.11	0.12	0.12	0.13	0.13	0.14	0.14	4 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	19.7	6	0.15	0.15	0.15	0.15	0.14	0.13	0.12	0.11	0.09	0.08	0.07	0.06	0.06	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.15	0.15	6 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Fwd	SHORTCRESTED	19.7	7	0.16	0.16	0.16	0.15	0.15	0.14	0.12	0.11	0.09	0.07	0.06	0.05	0.05	0.06	0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.16	0.16	0.16	7 kts

We	0	0.7256	0.7305	0.7433	0.7603	0.7764	0.7882	0.7934	0.7901	0.7778	0.7584	0.7367	0.7189	0.7101	0.7136	0.7276	0.7470	0.7662	0.7807	0.7895	0.78	0.7770	0.7630	0.7449	0.7311										
We	2	0.7618	0.7650	0.7736	0.7846	0.7945	0.8000	0.7984	0.7873	0.7658	0.7363	0.7053	0.6806	0.6694	0.6758	0.6965	0.7250	0.7537	0.7768	0.7912	0.7856	0.7941	0.7855	0.7745	0.7554										
We	4	0.7949	0.7969	0.8024	0.8090	0.8138	0.8140	0.8064	0.7880	0.7573	0.7167	0.6743	0.6409	0.6266	0.6368	0.6665	0.7058	0.7447	0.7727	0.7899	0.7899	0.8093	0.8123	0.8091	0.8029	0.7972									
We	6	0.8247	0.8258	0.8290	0.8324	0.8335	0.8293	0.8168	0.7924	0.7535	0.7015	0.6462	0.6021	0.5837	0.5991	0.6397	0.6908	0.7477	0.798	0.8072	0.8236	0.8309	0.8318	0.8291	0.8261										
We	7	0.8385	0.8393	0.8416	0.8437	0.8432	0.8374	0.8230	0.7963	0.7540	0.6969	0.6352	0.5854	0.5650	0.5832	0.6294	0.693	0.7402	0.781	0.8130	0.8313	0.8403	0.8430	0.8417	0.8396										
Mu(MSI)	0	-0.7740	-0.7758	-0.7805	-0.7861	-0.7910	-0.7942	-0.7956	-0.7947	-0.7914	-0.7855	-0.7781	-0.7713	-0.7677	-0.7658	-0.7651	-0.7618	-0.7511	-0.7321	-0.7022	-0.7940	-0.7937	-0.7911	-0.7867	-0.7811	-0.7761									
Mu(MSI)	2	-0.7866	-0.7876	-0.7902	-0.7932	-0.7958	-0.7972	-0.7968	-0.7940	-0.7878	-0.7780	-0.7657	-0.7542	-0.7485	-0.748	-0.748	-0.7418	-0.7301	-0.7040	-0.7911	-0.7950	-0.7964	-0.7957	-0.7935	-0.7904	-0.7877									
Mu(MSI)	4	-0.7959	-0.7964	-0.7978	-0.7993	-0.8004	-0.8005	-0.7987	-0.7941	-0.7852	-0.7705	-0.7511	-0.7324	-0.7234	-0.7256	-0.7270	-0.7256	-0.7170	-0.7055	-0.7810	-0.7910	-0.7967	-0.7994	-0.8001	-0.7994	-0.7979	-0.7965								
Mu(MSI)	6	-0.8027	-0.8030	-0.8036	-0.8043	-0.8045	-0.8037	-0.8011	-0.7953	-0.7840	-0.7640	-0.7356	-0.7064	-0.6922	-0.704	-0.717	-0.7291	-0.7394	-0.7494	-0.7919	-0.7989	-0.8025	-0.8040	-0.8042	-0.8036	-0.8030									
Mu(MSI)	7	-0.8054	-0.8056	-0.8060	-0.8064	-0.8063	-0.8052	-0.8024	-0.7963	-0.7841	-0.7620	-0.7289	-0.6935	-0.6764	-0.691	-0.707	-0.720	-0.730	-0.7394	-0.7928	-0.8002	-0.8041	-0.8058	-0.8062	-0.8060	-0.8056									
Abs(s3dbldot)	0	0.8305	0.8443	0.8684	0.8938	0.9100	0.9108	0.8939	0.8614	0.8190	0.7748	0.7370	0.7020	0.7120	0.7388	0.7767	0.8187	0.8568	0.8838	0.8953	0.8902	0.8721	0.8491	0.8324											
Abs(s3dbldot)	2	0.9600	0.9703	0.9816	0.9874	0.9793	0.9525	0.9063	0.8448	0.7759	0.7099	0.6562	0.6211	0.6091	0.6231	0.6604	0.7143	0.7774	0.8406	0.8951	0.9347	0.9569	0.9634	0.9605	0.9576										
Abs(s3dbldot)	4	1.0897	1.0950	1.0941	1.0811	1.0497	0.9963	0.9220	0.8325	0.7375	0.6492	0.5785	0.5336	0.5153	0.5373	0.5859	0.6566	0.7410	0.8289	0.9102	0.9770	1.0253	1.0553	1.0717	1.0817										
Abs(s3dbldot)	6	1.2106	1.2121	1.2004	1.1707	1.1180	1.0404	0.9403	0.8250	0.7057	0.5961	0.5043	0.4543	0.4364	0.4599	0.5197	0.6065	0.7112	0.8224	0.9285	1.0204	1.0926	1.1440	1.1775	1.1988										
Abs(s3dbldot)	7	1.2660	1.2659	1.2494	1.2124	1.1505	1.0622	0.9507	0.8238	0.6935	0.5744	0.4800	0.4105	0.4015	0.4273	0.4921	0.5863	0.7001	0.8217	0.9391	1.0423	1.1251	1.1858	1.2267	1.2526										
x for ERF eq	0	-0.7459	-0.7234	-0.6811	-0.6358	-0.6041	-0.5950	-0.6120	-0.6544	-0.7554	-0.9208	-1.1107	-1.4461	-1.1132	-1.0252	-0.9101	-0.7925	-0.6900	-0.6120	-0.5615	-0.5377	-0.5359	-0.5468	-0.5569											
x for ERF eq	2	-0.5559	-0.5429	-0.5289	-0.5088	-0.5123	-0.5390	-0.5940	-0.7278	-0.9299	-1.2111	-1.6121	-2.0215	-1.4922	-1.1922	-1.0212	-0.8521	-0.7055	-0.5896	-0.5059	-0.4518	-0.4223	-0.4092	-0.4026											
x for ERF eq	4	-0.3960	-0.3896	-0.3871	-0.3961	-0.4254	-0.4820	-0.5705	-0.728	-0.9468	-1.2721	-1.7551	-2.3468	-1.9328	-1.4922	-1.1922	-0.9521	-0.7655	-0.6120	-0.5059	-0.4223	-0.3673	-0.3327	-0.3226											
x for ERF eq	6	-0.2648	-0.2629	-0.2718	-0.2974	-0.3468	-0.4270	-0.5398	-0.6878	-0.9309	-1.3309	-1.8723	-2.5699	-1.6489	-1.5620	-1.3605	-1.1242	-0.9008	-0.7117	-0.5623	-0.4509	-0.3730	-0.3227	-0.2926	-0.2748										
x for ERF eq	7	-0.2095	-0.2093	-0.2224	-0.2541	-0.3113	-0.4007	-0.5281	-0.6911	-0.9622	-1.4162	-1.9762	-2.7597	-1.7791	-1.6729	-1.4359	-1.1664	-0.9179	-0.7103	-0.5468	-0.4241	-0.3368	-0.2786	-0.2423	-0.2206										

FLD_S56	MSI	Mooring_Fwd	SHORTCRESTED	19.7	0	22.8219	23.4930	24.7983	26.2513	27.2672	27.5656	27.1111	25.6570	23.6683	21.4246	19.3687	17.8483	17.2502	17.7366	19.2078	21.2271	23.4002	25.2678	26.4928	26.9093	26.5100	25.4424	24.0726	23.0510	0 kts
FLD_S56	MSI	Mooring_Fwd	SHORTCRESTED	19.7	2	28.8970	29.3391	29.9795	30.4613	30.3777	29.4701	27.8859	24.9192	21.6439	18.2317	15.3546	13.8602	12.5833	13.3055	15.2887	18.1303	21.4210	24.5164	27.0113	28.7040	29.3146	29.5737	29.2069	28.8646	2 kts
FLD_S56	MSI	Mooring_Fwd	SHORTCRESTED	19.7	4	34.6443	34.8774	34.9673	34.6398	33.7055	31.4367	28.3980	24.4273	19.8883	15.3646	11.9391	9.1434	8.3261	9.1688	11.6489	15.3866	19.7400	24.0326	27.7492	30.5966	32.5330	33.6515	34.1511	34.4018	4 kts
FLD_S56	MSI	Mooring_Fwd	SHORTCRESTED	19.7	6	39.5308	39.6052	39.2648	38.2926	36.4111	33.4730	29.3278	24.2063	18.4605	12.9145	8.4809	5.8608	4.9114	5.9555	8.6464	13.0607	18.3784	23.8436	28.6763	32.5657	35.4705	37.3303	38.4773	39.1525	6 kts
FLD																														

VERTICAL VELOCITY (m/sec)

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	19.7	0	1.30	1.28	1.26	1.24	1.21	1.18	1.16	1.13	1.11	1.10	1.10	1.12	1.14	1.17	1.20	1.23	1.26	1.27	1.29	1.30	1.30	1.31	1.31	1.31	0 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	19.7	2	1.35	1.33	1.30	1.27	1.23	1.19	1.15	1.10	1.06	1.03	1.01	1.04	1.07	1.11	1.16	1.20	1.24	1.28	1.31	1.33	1.35	1.36	1.36	2 kts	
FLD_S56	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	19.7	4	1.39	1.37	1.34	1.30	1.25	1.20	1.14	1.07	1.01	0.96	0.92	0.92	0.93	0.97	1.03	1.09	1.15	1.22	1.27	1.32	1.36	1.38	1.40	1.40	4 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	19.7	6	1.43	1.41	1.37	1.33	1.28	1.21	1.13	1.04	0.96	0.89	0.84	0.82	0.84	0.88	0.95	1.03	1.11	1.19	1.27	1.33	1.38	1.41	1.43	1.44	6 kts
FLD_S56	VERTICAL	VELOCITY	Mooring_Aft	SHORTCRESTED	19.7	7	1.45	1.43	1.39	1.35	1.29	1.22	1.13	1.04	0.94	0.86	0.80	0.78	0.79	0.84	0.91	1.00	1.09	1.18	1.27	1.34	1.40	1.43	1.45	1.46	7 kts

VERTICAL ACCELERATION

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S56	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	19.7	0	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	19.7	2	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.11	2 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	19.7	4	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11	4 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	19.7	6	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.12	0.12	6 kts
FLD_S56	VERTICAL	ACCELERATION	Mooring_Aft	SHORTCRESTED	19.7	7	0.12	0.12	0.12	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.12	0.13	7 kts

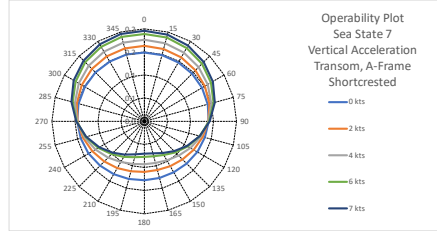
We	0	0.7283	0.7315	0.7402	0.7520	0.7633	0.7706	0.7715	0.7648	0.7513	0.7340	0.7178	0.7073	0.7058	0.7127	0.7256	0.7409	0.7557	0.7668	0.7722	0.777	0.7836	0.7927	0.8036	0.8151	0.8271	0.8395	0.8525	0.8660	0.8798	0.8938	0.9080	0.9224	0.9369	0.9515	0.9662	0.9810	0.9958	1.0107	1.0256	1.0405	1.0554	1.0703	1.0852	1.1001	1.1150	1.1299	1.1448	1.1597	1.1745	1.1894	1.2043	1.2191	1.2340	1.2488	1.2637	1.2785	1.2934	1.3082	1.3231	1.3379	1.3528	1.3676	1.3825	1.3973	1.4122	1.4270	1.4418	1.4567	1.4715	1.4864	1.5012	1.5160	1.5309	1.5457	1.5605	1.5754	1.5902	1.6050	1.6199	1.6347	1.6495	1.6644	1.6792	1.6940	1.7089	1.7237	1.7385	1.7534	1.7682	1.7830	1.7979	1.8127	1.8275	1.8424	1.8572	1.8720	1.8869	1.9017	1.9165	1.9314	1.9462	1.9610	1.9759	1.9907	2.0055	2.0204	2.0352	2.0500	2.0649	2.0797	2.0945	2.1094	2.1242	2.1390	2.1539	2.1687	2.1835	2.1984	2.2132	2.2280	2.2429	2.2577	2.2725	2.2874	2.3022	2.3170	2.3319	2.3467	2.3615	2.3764	2.3912	2.4060	2.4209	2.4357	2.4505	2.4654	2.4802	2.4950	2.5099	2.5247	2.5395	2.5544	2.5692	2.5840	2.5989	2.6137	2.6285	2.6434	2.6582	2.6730	2.6879	2.7027	2.7175	2.7324	2.7472	2.7620	2.7769	2.7917	2.8065	2.8214	2.8362	2.8510	2.8659	2.8807	2.8955	2.9104	2.9252	2.9400	2.9549	2.9697	2.9845	2.9994	3.0142	3.0290	3.0439	3.0587	3.0735	3.0884	3.1032	3.1180	3.1329	3.1477	3.1625	3.1774	3.1922	3.2070	3.2219	3.2367	3.2515	3.2664	3.2812	3.2960	3.3109	3.3257	3.3405	3.3554	3.3702	3.3850	3.3999	3.4147	3.4295	3.4444	3.4592	3.4740	3.4889	3.5037	3.5185	3.5334	3.5482	3.5630	3.5779	3.5927	3.6075	3.6224	3.6372	3.6520	3.6669	3.6817	3.6965	3.7114	3.7262	3.7410	3.7559	3.7707	3.7855	3.8004	3.8152	3.8300	3.8449	3.8597	3.8745	3.8894	3.9042	3.9190	3.9339	3.9487	3.9635	3.9784	3.9932	4.0080	4.0229	4.0377	4.0525	4.0674	4.0822	4.0970	4.1119	4.1267	4.1415	4.1564	4.1712	4.1860	4.2009	4.2157	4.2305	4.2454	4.2602	4.2750	4.2899	4.3047	4.3195	4.3344	4.3492	4.3640	4.3789	4.3937	4.4085	4.4234	4.4382	4.4530	4.4679	4.4827	4.4975	4.5124	4.5272	4.5420	4.5569	4.5717	4.5865	4.6014	4.6162	4.6310	4.6459	4.6607	4.6755	4.6904	4.7052	4.7200	4.7349	4.7497	4.7645	4.7794	4.7942	4.8090	4.8239	4.8387	4.8535	4.8684	4.8832	4.8980	4.9129	4.9277	4.9425	4.9574	4.9722	4.9870	4.9999	5.0147	5.0295	5.0444	5.0592	5.0740	5.0889	5.1037	5.1185	5.1334	5.1482	5.1630	5.1779	5.1927	5.2075	5.2224	5.2372	5.2520	5.2669	5.2817	5.2965	5.3114	5.3262	5.3410	5.3559	5.3707	5.3855	5.4004	5.4152	5.4300	5.4449	5.4597	5.4745	5.4894	5.5042	5.5190	5.5339	5.5487	5.5635	5.5784	5.5932	5.6080	5.6229	5.6377	5.6525	5.6674	5.6822	5.6970	5.7119	5.7267	5.7415	5.7564	5.7712	5.7860	5.8009	5.8157	5.8305	5.8454	5.8602	5.8750	5.8899	5.9047	5.9195	5.9344	5.9492	5.9640	5.9789	5.9937	6.0085	6.0234	6.0382	6.0530	6.0679	6.0827	6.0975	6.1124	6.1272	6.1420	6.1569	6.1717	6.1865	6.2014	6.2162	6.2310	6.2459	6.2607	6.2755	6.2904	6.3052	6.3200	6.3349	6.3497	6.3645	6.3794	6.3942	6.4090	6.4239	6.4387	6.4535	6.4684	6.4832	6.4980	6.5129	6.5277	6.5425	6.5574	6.5722	6.5870	6.6019	6.6167	6.6315	6.6464	6.6612	6.6760	6.6909	6.7057	6.7205	6.7354	6.7502	6.7650	6.7799	6.7947	6.8095	6.8244	6.8392	6.8540	6.8689	6.8837	6.8985	6.9134	6.9282	6.9430	6.9579	6.9727	6.9875	6.9999	7.0147	7.0295	7.0444	7.0592	7.0740	7.0889	7.1037	7.1185	7.1334	7.1482	7.1630	7.1779	7.1927	7.2075	7.2224	7.2372	7.2520	7.2669	7.2817	7.2965	7.3114	7.3262	7.3410	7.3559	7.3707	7.3855	7.4004	7.4152	7.4300	7.4449	7.4597	7.4745	7.4894	7.5042	7.5190	7.5339	7.5487	7.5635	7.5784	7.5932	7.6080	7.6229	7.6377	7.6525	7.6674	7.6822	7.6970	7.7119	7.7267	7.7415	7.7564	7.7712	7.7860	7.8009	7.8157	7.8305	7.8454	7.8602	7.8750	7.8899	7.9047	7.9195	7.9344	7.9492	7.9640	7.9789	7.9937	8.0085	8.0234	8.0382	8.0530	8.0679	8.0827	8.0975	8.1124	8.1272	8.1420	8.1569	8.1717	8.1865	8.2014	8.2162	8.2310	8.2459	8.2607	8.2755	8.2904	8.3052	8.3200	8.3349	8.3497	8.3645	8.3794	8.3942	8.4090	8.4239	8.4387	8.4535	8.4684	8.4832	8.4980	8.5129	8.5277	8.5425	8.5574	8.5722	8.5870	8.6019	8.6167	8.6315	8.6464	8.6612	8.6760	8.6909	8.7057	8.7205	8.7354	8.7502	8.7650	8.7799	8.7947	8.8095	8.8244	8.8392	8.8540	8.8689	8.8837	8.8985	8.9134	8.9282	8.9430	8.9579	8.9727	8.9875	8.9999	9.0147	9.0295	9.0444	9.0592	9.0740	9.0889	9.1037	9.1185	9.1334	9.1482	9.1630	9.1779	9.1927	9.2075	9.2224	9.2372	9.2520	9.2669	9.2817	9.2965	9.3114	9.3262	9.3410	9.3559	9.3707	9.3855	9.4004	9.4152	9.4300	9.4449	9.4597	9.4745	9.4894	9.5042	9.5190	9.5339	9.5487	9.5635	9.5784	9.5932	9.6080	9.6229	9.6377	9.6525	9.6674	9.6822	9.6970	9.7119	9.7267	9.7415	9.7564	9.7712	9.7860	9.8009	9.8157	9.8305	9.8454	9.8602	9.8750	9.8899	9.9047	9.9195	9.9344	9.9492	9.9640	9.9789	9.9937	10.0085	10.0234	10.0382	10.0530	10.0679	10.0827	10.0975	10.1124	10.1272	10.1420	10.1569	10.1717	10.1865	10.2014	10.2162	10.2310	10.2459	10.2607	10.2755	10.2904	10.3052	10.3200	10.3349	10.3497	10.3645	10.3794	10.3942	10.4090	10.4239	10.4387	10.4535	10.4684	10.4832	10.4980	10.5129	10.5277	10.5425	10.5574	10.5722	10.5870	10.6019	10.6167	10.6315	10.6464	10.6612	10.6760	10.6909	10.7057	10.7205	10.7354	10.7502	10.765
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FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS7	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	0	0.1491	0.1483	0.1473	0.1461	0.1444	0.1421	0.1393	0.1361	0.1329	0.1300	0.1279	0.1269	0.1275	0.1294	0.1324	0.1350	0.1394	0.1426	0.1454	0.1474	0.1487	0.1494	0.1496	0.1495	0 kts
FLD_SS7	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	2	0.1634	0.1621	0.1598	0.1564	0.1538	0.1458	0.1387	0.1311	0.1236	0.1171	0.1123	0.1096	0.1096	0.1121	0.1168	0.1229	0.1301	0.1376	0.1448	0.1512	0.1563	0.1601	0.1624	0.1635	2 kts
FLD_SS7	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	4	0.1765	0.1749	0.1716	0.1664	0.1592	0.1499	0.1390	0.1272	0.1151	0.1055	0.0978	0.0933	0.0926	0.0958	0.1022	0.1111	0.1219	0.1336	0.1448	0.1551	0.1639	0.1702	0.1743	0.1764	4 kts
FLD_SS7	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	6	0.1895	0.1875	0.1833	0.1765	0.1670	0.1548	0.1404	0.1247	0.1091	0.0953	0.0847	0.0783	0.0769	0.0807	0.0888	0.1006	0.1151	0.1309	0.1464	0.1604	0.1719	0.1805	0.1862	0.1891	6 kts
FLD_SS7	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	7	0.1963	0.1942	0.1895	0.1819	0.1713	0.1577	0.1416	0.1241	0.1068	0.0913	0.0770	0.0703	0.0744	0.0834	0.0965	0.1126	0.1302	0.1476	0.1633	0.1763	0.1860	0.1924	0.1958	7 kts	Limit

Chart Title	Operability Plot
	Sea State 7
	Vertical Acceleration
	Transom, A-Frame
	Shortcrested

Operability Plot
Sea State 7
Vertical Acceleration
Transom, A-Frame
Shortcrested

STD 0.031707
CONDITION PASSES

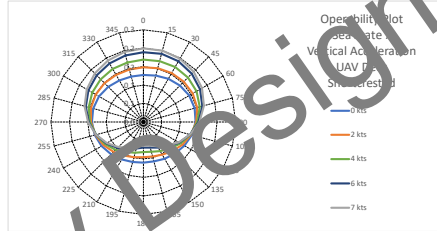


FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_SS7	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	0	0.1274	0.1305	0.1354	0.1401	0.1433	0.1437	0.1410	0.1357	0.1285	0.1211	0.1147	0.1107	0.096	0.111	0.1170	0.1237	0.1306	0.1363	0.1397	0.1404	0.1383	0.1344	0.1300	0.1272	0 kts	
FLD_SS7	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	2	0.1481	0.1506	0.1534	0.1551	0.1544	0.1505	0.1433	0.1334	0.1221	0.1111	0.1023	0.0968	0.0954	0.0988	0.105	0.1145	0.1245	0.1340	0.1416	0.1466	0.1488	0.1487	0.1476	0.1471	2 kts	
FLD_SS7	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	4	0.1691	0.1709	0.1717	0.1705	0.1668	0.1579	0.1462	0.1319	0.1164	0.1020	0.0905	0.0835	0.0817	0.0857	0.092	0.1008	0.1104	0.1206	0.1306	0.1403	0.1505	0.1599	0.1636	0.1657	4 kts	
FLD_SS7	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	6	0.1896	0.1907	0.1897	0.1856	0.1777	0.1656	0.1497	0.1312	0.1119	0.0941	0.0801	0.0715	0.0685	0.072	0.0799	0.0898	0.1015	0.1132	0.1249	0.1366	0.1477	0.1569	0.1613	0.1626	6 kts	
FLD_SS7	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	7	0.1993	0.2001	0.1983	0.1929	0.1834	0.1695	0.1517	0.1313	0.1102	0.0908	0.0757	0.0664	0.064	0.0694	0.0806	0.0960	0.1138	0.1322	0.1497	0.1648	0.1770	0.1859	0.1922	0.1965	7 kts	Limit

Chart Title	Operability Plot
	Sea State 7
	Vertical Acceleration
	UAV Deck
	Shortcrested

Operability Plot
Sea State 7
Vertical Acceleration
UAV Deck
Shortcrested

STD 0.034366
CONDITION PASSES

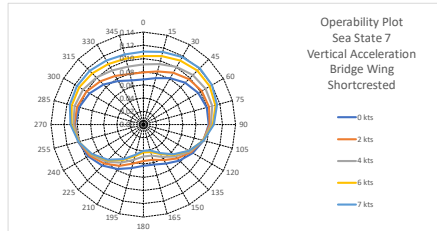


FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_SS7	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	0	0.0681	0.072	0.081	0.0897	0.0963	0.0995	0.0989	0.0944	0.0869	0.0774	0.0684	0.0627	0.0626	0.0683	0.0778	0.0881	0.0967	0.1021	0.1035	0.1008	0.0943	0.0853	0.0759	0.0692	0 kts	
FLD_SS7	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	2	0.084	0.0875	0.0975	0.1021	0.1033	0.1004	0.0937	0.0839	0.0726	0.0622	0.0556	0.0533	0.05616	0.0616	0.0721	0.0837	0.0940	0.1012	0.1046	0.1038	0.0994	0.0924	0.0848	0.0794	2 kts	
FLD_SS7	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	4	0.0909	0.094	0.1009	0.1062	0.1089	0.1078	0.1027	0.0937	0.0817	0.0685	0.0565	0.0489	0.0484	0.05553	0.0669	0.0799	0.0918	0.1009	0.1063	0.1077	0.1054	0.1005	0.0948	0.0909	4 kts	
FLD_SS7	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	6	0.1039	0.1075	0.1122	0.1157	0.1163	0.1130	0.1055	0.0942	0.0802	0.0652	0.0517	0.0432	0.0426	0.0500	0.0626	0.0768	0.0903	0.1013	0.1089	0.1125	0.1125	0.1098	0.1060	0.1034	6 kts	
FLD_SS7	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	7	0.1108	0.1140	0.1181	0.1207	0.1202	0.1158	0.1071	0.0948	0.0798	0.0639	0.0498	0.0408	0.0401	0.0478	0.0607	0.0756	0.0899	0.1018	0.1105	0.1153	0.1165	0.1149	0.1121	0.1101	7 kts	Limit

Chart Title	Operability Plot
	Sea State 7
	Vertical Acceleration
	Bridge Wing
	Shortcrested

Operability Plot
Sea State 7
Vertical Acceleration
Bridge Wing
Shortcrested

STD 0.021973
CONDITION PASSES



Preliminary Design, @IDR5

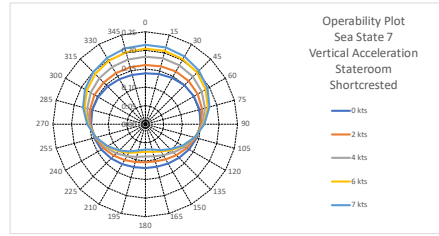
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_SS7	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	0	0.1382	0.1409	0.1452	0.1494	0.1538	0.1578	0.1489	0.1435	0.1364	0.1293	0.1233	0.1195	0.1183	0.1203	0.1249	0.1311	0.1377	0.1435	0.1473	0.1486	0.1474	0.1442	0.1405	0.1360	0 kts	
FLD_SS7	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	2	0.1605	0.1625	0.1645	0.1654	0.1659	0.1592	0.1512	0.1408	0.1293	0.1184	0.1098	0.1028	0.1004	0.1028	0.1055	0.1119	0.1208	0.1309	0.1409	0.1493	0.1553	0.1587	0.1597	0.1595	0.1594	2 kts
FLD_SS7	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	4	0.1829	0.1842	0.1842	0.1819	0.1763	0.1670	0.1542	0.1390	0.1230	0.1084	0.0969	0.0899	0.0880	0.0915	0.0997	0.1114	0.1251	0.1392	0.1521	0.1628	0.1707	0.1758	0.1789	0.1811	4 kts	
FLD_SS7	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	6	0.2046	0.2052	0.2033	0.1980	0.1887	0.1751	0.1578	0.1381	0.1175	0.0997	0.0855	0.0768	0.0745	0.0789	0.0890	0.1034	0.1204	0.1384	0.1557	0.1707	0.1828	0.1917	0.1979	0.2020	6 kts	
FLD_SS7	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	7	0.2148	0.2151	0.2123	0.2057	0.1947	0.1792	0.1599	0.1381	0.1160	0.0961	0.0807	0.0713	0.0688	0.0736	0.0846	0.1002	0.1187	0.1385	0.1577	0.1748	0.1888	0.1994	0.2070	0.2120	7 kts	
Limit							0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

Chart Title	Operability Plot Sea State 7 Vertical Acceleration Stateroom Shortcrested
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Operability Plot Sea State 7 Vertical Acceleration Stateroom Shortcrested

STD
0.037049

CONDITION PASSES



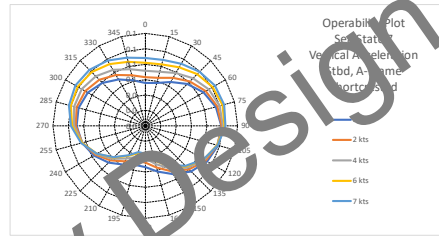
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_SS7	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	0	0.0559	0.0577	0.0599	0.0768	0.0871	0.0948	0.0985	0.0978	0.0927	0.0839	0.0727	0.0615	0.0498	0.0416	0.0380	0.0374	0.0372	0.0380	0.0394	0.0424	0.0461	0.0500	0.0538	0.0576	0.0610	0 kts
FLD_SS7	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	2	0.0630	0.0645	0.0718	0.0816	0.0907	0.0969	0.0991	0.0969	0.0904	0.0802	0.0680	0.0560	0.0479	0.0408	0.0353	0.0337	0.0346	0.0363	0.0390	0.0424	0.0461	0.0500	0.0538	0.0576	0.0610	2 kts
FLD_SS7	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	4	0.0715	0.0726	0.0790	0.0875	0.0952	0.0999	0.1005	0.0966	0.0886	0.0771	0.0638	0.0511	0.0425	0.0372	0.0337	0.0346	0.0363	0.0390	0.0424	0.0461	0.0500	0.0538	0.0576	0.0610	4 kts	
FLD_SS7	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	6	0.0820	0.0827	0.0879	0.0950	0.1009	0.1038	0.1026	0.0971	0.0874	0.0746	0.0602	0.0469	0.0380	0.0337	0.0346	0.0363	0.0390	0.0424	0.0461	0.0500	0.0538	0.0576	0.0610	6 kts		
FLD_SS7	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	7	0.0880	0.0886	0.0932	0.0994	0.1044	0.1063	0.1041	0.0975	0.0871	0.0736	0.0588	0.0452	0.0361	0.0337	0.0346	0.0363	0.0390	0.0424	0.0461	0.0500	0.0538	0.0576	0.0610	7 kts		
Limit							0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

Chart Title	Operability Plot Sea State 7 Vertical Acceleration Sbtd, A-Frame Shortcrested
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Operability Plot Sea State 7 Vertical Acceleration Sbtd, A-Frame Shortcrested

STD
0.018961

CONDITION PASSES



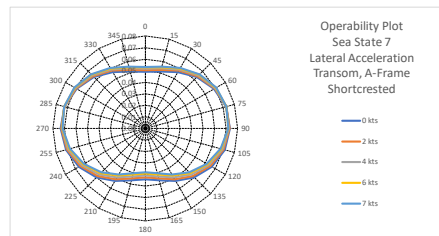
FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_SS7	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	0	0.0491	0.0512	0.0526	0.0563	0.0688	0.0724	0.0733	0.0712	0.0665	0.0598	0.0526	0.0465	0.0441	0.0465	0.0526	0.0598	0.0665	0.0712	0.0733	0.0724	0.0688	0.0630	0.0565	0.0512	0 kts
FLD_SS7	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	2	0.0506	0.0526	0.0546	0.0576	0.0694	0.0726	0.0729	0.0702	0.0651	0.0582	0.0509	0.0448	0.0425	0.0449	0.0509	0.0582	0.0651	0.0702	0.0729	0.0726	0.0694	0.0641	0.0576	0.0526	2 kts
FLD_SS7	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	4	0.0518	0.0538	0.0558	0.0588	0.0700	0.0727	0.0724	0.0692	0.0638	0.0565	0.0491	0.0432	0.0408	0.0432	0.0491	0.0565	0.0638	0.0692	0.0724	0.0727	0.0700	0.0650	0.0588	0.0538	4 kts
FLD_SS7	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	6	0.0529	0.0549	0.0569	0.0600	0.0706	0.0728	0.0719	0.0682	0.0621	0.0547	0.0472	0.0413	0.0390	0.0413	0.0472	0.0547	0.0621	0.0682	0.0719	0.0728	0.0706	0.0650	0.0600	0.0549	6 kts
FLD_SS7	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	29.5	7	0.0534	0.0554	0.0574	0.0605	0.0706	0.0728	0.0719	0.0677	0.0614	0.0537	0.0462	0.0403	0.0380	0.0403	0.0462	0.0537	0.0614	0.0677	0.0719	0.0728	0.0706	0.0650	0.0600	0.0549	7 kts
Limit							0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot Sea State 7 Lateral Acceleration Transom, A-Frame Shortcrested
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Operability Plot Sea State 7 Lateral Acceleration Transom, A-Frame Shortcrested

STD
0.011116

CONDITION PASSES

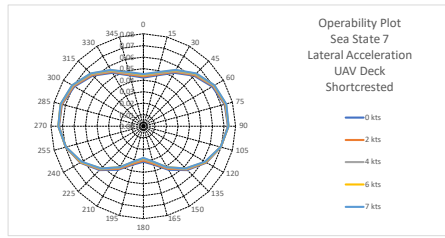


Preliminary Design, OLDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345													
FLD_S57	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	0	0.0422	0.0456	0.0534	0.0621	0.0691	0.0730	0.0732	0.0699	0.0629	0.0536	0.0433	0.0345	0.0307	0.0345	0.0433	0.0536	0.0629	0.0697	0.0732	0.0730	0.0691	0.0621	0.0534	0.0456	0.0422	0 kts											
FLD_S57	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	2	0.0432	0.0465	0.0544	0.0630	0.0698	0.0734	0.0734	0.0696	0.0623	0.0530	0.0425	0.0334	0.0296	0.0334	0.0425	0.0530	0.0623	0.0696	0.0734	0.0734	0.0698	0.0630	0.0544	0.0465	0.0432	2 kts											
FLD_S57	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	4	0.0440	0.0473	0.0552	0.0637	0.0704	0.0738	0.0736	0.0695	0.0622	0.0524	0.0417	0.0325	0.0285	0.0325	0.0417	0.0524	0.0622	0.0695	0.0736	0.0738	0.0704	0.0637	0.0552	0.0473	0.0440	4 kts											
FLD_S57	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	6	0.0448	0.0481	0.0559	0.0644	0.0709	0.0742	0.0737	0.0694	0.0618	0.0519	0.0411	0.0318	0.0278	0.0318	0.0411	0.0519	0.0618	0.0694	0.0737	0.0742	0.0709	0.0644	0.0559	0.0481	0.0448	6 kts											
FLD_S57	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	29.5	7	0.0451	0.0485	0.0563	0.0647	0.0711	0.0743	0.0737	0.0693	0.0617	0.0516	0.0408	0.0315	0.0275	0.0315	0.0408	0.0516	0.0617	0.0693	0.0737	0.0743	0.0711	0.0647	0.0563	0.0485	0.0451	7 kts											
Limit							Lateral Acceleration Limit (S57-8)																				0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185

Chart Title	Operability Plot	Operability Plot
	Sea State 7	Sea State 7
	Lateral Acceleration	Lateral Acceleration
	UAV Deck	UAV Deck
	Shortcrested	Shortcrested

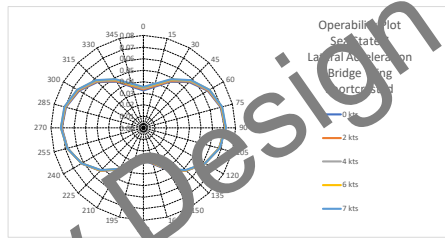
STD 0.014149
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345													
FLD_S57	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	0	0.0326	0.0368	0.0461	0.0562	0.0643	0.0693	0.0706	0.0680	0.0617	0.0526	0.0420	0.0323	0.0280	0.0323	0.0420	0.0526	0.0617	0.0680	0.0706	0.0693	0.0643	0.0562	0.0461	0.0368	0.0326	0 kts											
FLD_S57	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	2	0.0334	0.0376	0.0469	0.0568	0.0649	0.0698	0.0709	0.0681	0.0616	0.0523	0.0415	0.0318	0.0274	0.0318	0.0415	0.0523	0.0616	0.0681	0.0709	0.0698	0.0649	0.0568	0.0469	0.0376	0.0334	2 kts											
FLD_S57	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	4	0.0343	0.0384	0.0476	0.0575	0.0654	0.0702	0.0711	0.0682	0.0616	0.0521	0.0412	0.0314	0.0269	0.0314	0.0412	0.0521	0.0616	0.0682	0.0711	0.0702	0.0654	0.0575	0.0476	0.0384	0.0343	4 kts											
FLD_S57	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	6	0.0351	0.0392	0.0484	0.0581	0.0659	0.0706	0.0714	0.0683	0.0613	0.0520	0.0410	0.0311	0.0267	0.0311	0.0410	0.0520	0.0613	0.0683	0.0714	0.0706	0.0659	0.0581	0.0484	0.0392	0.0351	6 kts											
FLD_S57	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	29.5	7	0.0355	0.0395	0.0487	0.0584	0.0662	0.0707	0.0715	0.0683	0.0613	0.0519	0.0409	0.0310	0.0266	0.0310	0.0409	0.0519	0.0613	0.0683	0.0715	0.0707	0.0662	0.0584	0.0487	0.0395	0.0355	7 kts											
Limit							Lateral Acceleration Limit (S57-8)																				0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185

Chart Title	Operability Plot	Operability Plot
	Sea State 7	Sea State 7
	Lateral Acceleration	Lateral Acceleration
	Bridge Wing	Bridge Wing
	Shortcrested	Shortcrested

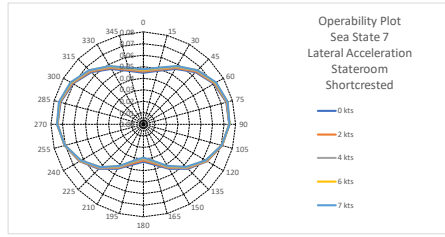
STD 0.014368
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345													
FLD_S57	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	0	0.0448	0.0489	0.0586	0.0639	0.0706	0.0743	0.0744	0.0707	0.0638	0.0546	0.0445	0.0360	0.0324	0.0360	0.0445	0.0546	0.0638	0.0707	0.0744	0.0743	0.0706	0.0639	0.0586	0.0489	0.0448	0 kts											
FLD_S57	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	2	0.0457	0.0498	0.0595	0.0648	0.0713	0.0748	0.0745	0.0706	0.0634	0.0539	0.0435	0.0348	0.0311	0.0348	0.0435	0.0539	0.0634	0.0706	0.0745	0.0748	0.0713	0.0648	0.0586	0.0489	0.0457	2 kts											
FLD_S57	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	4	0.0466	0.0507	0.0603	0.0655	0.0719	0.0752	0.0747	0.0704	0.0629	0.0532	0.0426	0.0337	0.0300	0.0337	0.0426	0.0532	0.0629	0.0704	0.0747	0.0752	0.0719	0.0655	0.0595	0.0498	0.0466	4 kts											
FLD_S57	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	6	0.0475	0.0516	0.0611	0.0662	0.0725	0.0757	0.0747	0.0702	0.0623	0.0525	0.0419	0.0329	0.0291	0.0329	0.0419	0.0525	0.0623	0.0702	0.0747	0.0757	0.0725	0.0662	0.0603	0.0507	0.0475	6 kts											
FLD_S57	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	29.5	7	0.0477	0.0518	0.0613	0.0664	0.0727	0.0756	0.0747	0.0701	0.0623	0.0522	0.0416	0.0326	0.0288	0.0326	0.0416	0.0522	0.0623	0.0701	0.0747	0.0756	0.0727	0.0664	0.0603	0.0509	0.0477	7 kts											
Limit							Lateral Acceleration Limit (S57-8)																				0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185

Chart Title	Operability Plot	Operability Plot
	Sea State 7	Sea State 7
	Lateral Acceleration	Lateral Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested

STD 0.01055
CONDITION PASSES

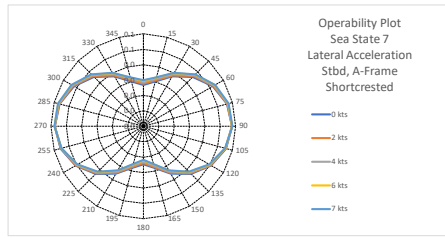


Preliminary Design, OLDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S57	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	0	0.0369	0.0301	0.0375	0.0455	0.0521	0.0563	0.0575	0.0556	0.0509	0.0437	0.0354	0.0268	0.0247	0.0200	0.0354	0.0437	0.0509	0.0556	0.0575	0.0563	0.0521	0.0455	0.0375	0.0301	0.0369	
FLD_S57	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	2	0.0278	0.0310	0.0383	0.0461	0.0526	0.0566	0.0576	0.0555	0.0504	0.0432	0.0347	0.0272	0.0238	0.0229	0.0272	0.0347	0.0432	0.0504	0.0555	0.0576	0.0566	0.0526	0.0461	0.0383	0.0310	0.0278
FLD_S57	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	4	0.0287	0.0319	0.0390	0.0468	0.0531	0.0569	0.0576	0.0553	0.0501	0.0426	0.0340	0.0264	0.0231	0.0264	0.0340	0.0426	0.0501	0.0553	0.0576	0.0569	0.0531	0.0468	0.0390	0.0319	0.0287	0.0287
FLD_S57	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	6	0.0296	0.0327	0.0398	0.0474	0.0536	0.0572	0.0577	0.0551	0.0497	0.0421	0.0334	0.0256	0.0223	0.0256	0.0334	0.0421	0.0497	0.0551	0.0577	0.0572	0.0536	0.0474	0.0398	0.0327	0.0296	0.0296
FLD_S57	LATERAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	29.5	7	0.0300	0.0331	0.0402	0.0477	0.0538	0.0573	0.0577	0.0550	0.0495	0.0418	0.0331	0.0253	0.0219	0.0253	0.0331	0.0418	0.0495	0.0550	0.0577	0.0573	0.0538	0.0477	0.0402	0.0331	0.0300	0.0300
Limit				Lateral Acceleration Limit (SS7-8)			0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot	Operability Plot
	Sea State 7	Sea State 7
	Lateral Acceleration	Lateral Acceleration
	Sbtd, A-Frame	Sbtd, A-Frame
	Shortcrested	Shortcrested

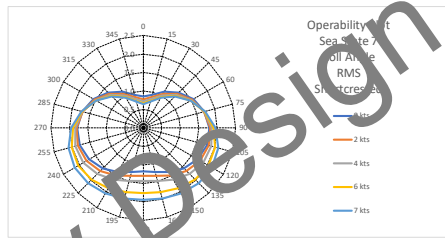
STD 0.011314
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345				
FLD_S57	ROLL	ANGLE	RMS	SHORTCRESTED	29.5	0	0.8490	0.9320	1.1270	1.3540	1.5600	1.7120	1.7890	1.7840	1.6980	1.5520	1.3780	1.2310	1.1200	1.025	1.1200	1.2310	1.3780	1.5520	1.6980	1.7840	1.7890	1.7120	1.5600	1.3540	1.1270	0.9320	0.8490	
FLD_S57	ROLL	ANGLE	RMS	SHORTCRESTED	29.5	2	0.7790	0.8640	1.0650	1.3020	1.5250	1.7030	1.8120	1.8360	1.7760	1.6470	1.4860	1.3480	1.220	1.148	1.220	1.348	1.4860	1.6470	1.7760	1.8360	1.8120	1.7030	1.5250	1.3020	1.0650	0.8640	0.7790	
FLD_S57	ROLL	ANGLE	RMS	SHORTCRESTED	29.5	4	0.7220	0.8080	1.0120	1.2580	1.5000	1.7050	1.8470	1.9050	1.8730	1.7650	1.6390	1.4900	1.370	1.4900	1.6390	1.7650	1.8730	1.9050	1.8730	1.8470	1.7050	1.5000	1.2580	1.0120	0.8080	0.7220	0.7220	
FLD_S57	ROLL	ANGLE	RMS	SHORTCRESTED	29.5	6	0.6720	0.7590	0.9660	1.2220	1.4840	1.7200	1.9050	2.0120	2.0330	1.9810	1.8870	1.8000	1.750	1.8000	1.8870	1.9810	2.0330	2.0120	2.0330	2.0120	1.9050	1.7200	1.4840	1.2220	0.9660	0.7590	0.6720	0.6720
FLD_S57	ROLL	ANGLE	RMS	SHORTCRESTED	29.5	7	0.6475	0.7350	0.9445	1.2055	1.4785	1.7380	1.9560	2.0975	2.1475	2.1195	2.0470	1.9760	1.946	1.9760	2.0470	2.1195	2.1475	2.0975	1.9560	1.7380	1.4785	1.2055	0.9445	0.7350	0.6475	0.6475	0.6475	
Limit				Roll Limit (SS7-8)			8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50		

Chart Title	Operability Plot	Operability Plot
	Sea State 7	Sea State 7
	Roll Angle	Roll Angle
	RMS	RMS
	Shortcrested	Shortcrested

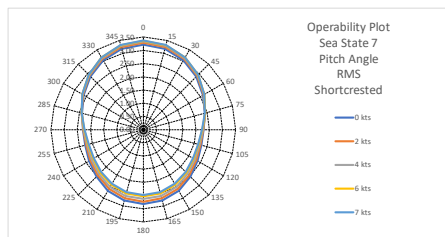
STD 0.407939
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S57	PITCH	ANGLE	RMS	SHORTCRESTED	29.5	0	3.2170	1700	3.035	2.8380	2.6140	2.4130	2.2890	2.2760	2.3680	2.5200	2.6750	2.7860	2.8250	2.7860	2.6750	2.5200	2.3680	2.2760	2.2890	2.4130	2.6140	2.8380	3.0350	3.1700	0	0
FLD_S57	PITCH	ANGLE	RMS	SHORTCRESTED	29.5	2	3.2890	1730	2.9960	2.8850	2.6450	2.4240	2.2770	2.2430	2.3150	2.4520	2.5950	2.6980	2.7350	2.6980	2.5950	2.4520	2.3150	2.2430	2.2770	2.4240	2.6450	2.8850	3.0960	3.2390	2	2
FLD_S57	PITCH	ANGLE	RMS	SHORTCRESTED	29.5	4	3.3650	1760	2.9160	2.9160	2.6630	2.4610	2.2920	2.2580	2.3280	2.4780	2.5700	2.6200	2.6350	2.6200	2.5700	2.4780	2.3280	2.2580	2.2920	2.4610	2.6630	2.9160	3.1360	3.2860	4	4
FLD_S57	PITCH	ANGLE	RMS	SHORTCRESTED	29.5	6	3.3650	1760	2.9160	2.9160	2.6630	2.4610	2.2920	2.2580	2.3280	2.4780	2.5700	2.6200	2.6350	2.6200	2.5700	2.4780	2.3280	2.2580	2.2920	2.4610	2.6630	2.9160	3.1360	3.2860	6	6
FLD_S57	PITCH	ANGLE	RMS	SHORTCRESTED	29.5	7	3.3690	1760	2.9160	2.9340	2.6700	2.4780	2.3050	2.2710	2.3410	2.4910	2.5830	2.6330	2.6480	2.6330	2.5830	2.4910	2.3410	2.2710	2.3050	2.4780	2.6700	2.9340	3.1580	3.3110	7	7
Limit				Pitch Limit (SS7-8)			2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	

Chart Title	Operability Plot	Operability Plot
	Sea State 7	Sea State 7
	Pitch Angle	Pitch Angle
	RMS	RMS
	Shortcrested	Shortcrested

STD 0.367072
CONDITION PASSES



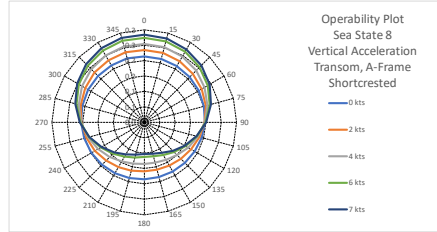
Preliminary Design, CIDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_S58	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	0	0.2140	0.2127	0.2106	0.2079	0.2046	0.2009	0.1969	0.1929	0.1893	0.1865	0.1848	0.1844	0.1854	0.1878	0.1911	0.1947	0.1985	0.2021	0.2054	0.2083	0.2107	0.2126	0.2138	0.2144	0 kts
FID_S58	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	2	0.2352	0.2332	0.2291	0.2233	0.2156	0.2063	0.1961	0.1857	0.1760	0.1679	0.1622	0.1593	0.1595	0.1627	0.1684	0.1760	0.1850	0.1948	0.2047	0.2140	0.2220	0.2283	0.2327	0.2350	2 kts
FID_S58	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	4	0.2550	0.2524	0.2467	0.2382	0.2267	0.2127	0.1968	0.1802	0.1645	0.1512	0.1414	0.1360	0.1353	0.1393	0.1474	0.1590	0.1732	0.1892	0.2053	0.2205	0.2334	0.2436	0.2505	0.2544	4 kts
FID_S58	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	6	0.2746	0.2715	0.2644	0.2535	0.2386	0.2201	0.1989	0.1767	0.1552	0.1366	0.1227	0.1146	0.1130	0.1179	0.1286	0.1441	0.1636	0.1854	0.2075	0.2280	0.2455	0.2591	0.2684	0.2736	6 kts
FID_S58	VERTICAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	7	0.2850	0.2816	0.2738	0.2616	0.2451	0.2245	0.2009	0.1760	0.1518	0.1308	0.1150	0.1057	0.1036	0.1096	0.1208	0.1382	0.1601	0.1845	0.2093	0.2323	0.2520	0.2673	0.2779	0.2838	7 kts
Limit				Vertical Acceleration Limit (SS7-8)			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

Chart Title	Operability Plot
	Sea State 8
	Vertical Acceleration
	Transom, A-Frame
	Shortcrested

Operability Plot	Sea State 8
Vertical Acceleration	Transom, A-Frame
Shortcrested	Shortcrested

STD 0.045333
CONDITION PASSES

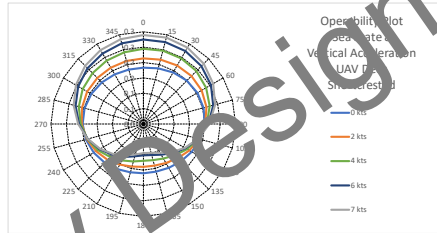


FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FID_S58	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	0	0.1837	0.1878	0.1938	0.1995	0.2028	0.2026	0.1984	0.1910	0.1816	0.1723	0.1647	0.1603	0.1595	0.162	0.1693	0.1776	0.1861	0.1930	0.1971	0.1970	0.1954	0.1907	0.1858	0.1829	0 kts	
FID_S58	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	2	0.2136	0.2168	0.2199	0.2211	0.2189	0.2124	0.2016	0.1876	0.1722	0.1578	0.1468	0.1403	0.1391	0.143	0.152	0.1642	0.1772	0.1896	0.1999	0.2069	0.2106	0.2116	0.2114	0.2117	2 kts	
FID_S58	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	4	0.2444	0.2466	0.2468	0.2437	0.2361	0.2234	0.2060	0.1855	0.1641	0.1446	0.1298	0.1213	0.1195	0.125	0.133	0.1521	0.1698	0.1876	0.2039	0.2172	0.2271	0.2337	0.2380	0.2414	4 kts	
FID_S58	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	6	0.2740	0.2761	0.2736	0.2664	0.2535	0.2349	0.2114	0.1847	0.1578	0.1332	0.1148	0.1042	0.103	0.107	0.117	0.1418	0.1639	0.1870	0.2090	0.2284	0.2443	0.2561	0.2648	0.2709	6 kts	
FID_S58	VERTICAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	7	0.2897	0.2904	0.2867	0.2775	0.2622	0.2409	0.2145	0.1850	0.1552	0.1286	0.1084	0.0969	0.094	0.094	0.1020	0.1170	0.1376	0.1618	0.1873	0.2121	0.2343	0.2529	0.2673	0.2779	0.2853	7 kts
Limit				Vertical Acceleration Limit (SS7-8)			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			

Chart Title	Operability Plot
	Sea State 8
	Vertical Acceleration
	UAV Deck
	Shortcrested

Operability Plot	Sea State 8
Vertical Acceleration	UAV Deck
Shortcrested	Shortcrested

STD 0.049167
CONDITION PASSES

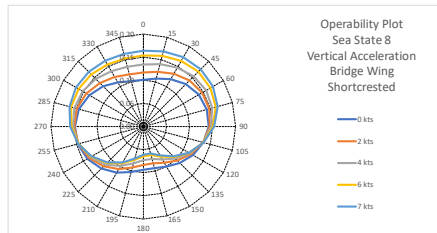


FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FID_S58	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	0	0.1009	0.107	0.115	0.1299	0.1385	0.1425	0.1413	0.1348	0.1242	0.1116	0.1000	0.0931	0.0937	0.1019	0.1148	0.1286	0.1400	0.1470	0.1485	0.1443	0.1352	0.1229	0.1104	0.1019	0 kts
FID_S58	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	2	0.127	0.1321	0.1411	0.1479	0.1479	0.1434	0.1337	0.1200	0.1045	0.0908	0.0828	0.0830	0.0920	0.1063	0.1221	0.1358	0.1455	0.1499	0.1488	0.1427	0.1333	0.1235	0.1169	0.1109	2 kts
FID_S58	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	4	0.1343	0.1401	0.1475	0.1540	0.1569	0.1546	0.1467	0.1336	0.1167	0.0984	0.0824	0.0728	0.0791	0.0829	0.0987	0.1164	0.1326	0.1450	0.1525	0.1543	0.1517	0.1455	0.1384	0.1338	4 kts
FID_S58	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	6	0.1537	0.1584	0.1642	0.1682	0.1679	0.1622	0.1508	0.1344	0.1144	0.0934	0.0752	0.0644	0.0645	0.0751	0.0922	0.1118	0.1303	0.1455	0.1561	0.1616	0.1623	0.1594	0.1552	0.1526	6 kts
FID_S58	VERTICAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	7	0.1640	0.1683	0.1731	0.1757	0.1739	0.1665	0.1533	0.1352	0.1137	0.0914	0.0722	0.0607	0.0608	0.0718	0.0896	0.1099	0.1296	0.1463	0.1585	0.1658	0.1682	0.1671	0.1644	0.1627	7 kts
Limit				Vertical Acceleration Limit (SS7-8)			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

Chart Title	Operability Plot
	Sea State 8
	Vertical Acceleration
	Bridge Wing
	Shortcrested

Operability Plot	Sea State 8
Vertical Acceleration	Bridge Wing
Shortcrested	Shortcrested

STD 0.028955
CONDITION PASSES

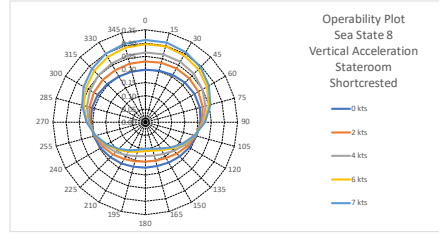


Preliminary Design, @IDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S58	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	0	0.1989	0.2025	0.2076	0.2123	0.2146	0.2138	0.2092	0.2017	0.1926	0.1838	0.1769	0.1728	0.1719	0.1746	0.1803	0.1876	0.1957	0.2027	0.2074	0.2094	0.2079	0.2044	0.2005	0.1961	0 kts
FLD_S58	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	2	0.2311	0.2336	0.2356	0.2356	0.2321	0.2243	0.2125	0.1978	0.1822	0.1681	0.1574	0.1511	0.1497	0.1534	0.1616	0.1729	0.1859	0.1989	0.2103	0.2190	0.2244	0.2271	0.2281	0.2291	2 kts
FLD_S58	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	4	0.2640	0.2655	0.2644	0.2597	0.2504	0.2359	0.2171	0.1954	0.1733	0.1536	0.1389	0.1304	0.1285	0.1333	0.1442	0.1594	0.1775	0.1965	0.2146	0.2300	0.2421	0.2508	0.2567	0.2609	4 kts
FLD_S58	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	6	0.2964	0.2968	0.2929	0.2838	0.2689	0.2482	0.2226	0.1943	0.1666	0.1411	0.1225	0.1118	0.1094	0.1155	0.1289	0.1479	0.1708	0.1956	0.2200	0.2420	0.2603	0.2746	0.2851	0.2923	6 kts
FLD_S58	VERTICAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	7	0.3119	0.3119	0.3067	0.2955	0.2781	0.2544	0.2259	0.1945	0.1633	0.1359	0.1155	0.1038	0.1012	0.1079	0.1225	0.1432	0.1684	0.1959	0.2232	0.2482	0.2695	0.2864	0.2989	0.3074	7 kts
Limit							Vertical Acceleration Limit (SS7-8)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Vertical Acceleration	Vertical Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested

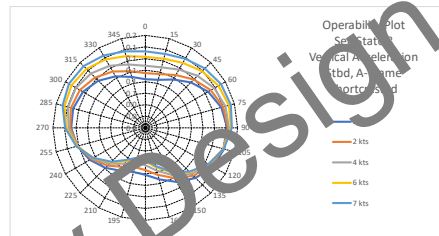
STD 0.053045
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S58	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	45.9	0	0.0842	0.0862	0.0968	0.1114	0.1257	0.1365	0.1421	0.1415	0.1348	0.1230	0.1079	0.0926	0.0718	0.0575	0.0459	0.0289	0.0081	0.1113	0.1222	0.1286	0.1295	0.1248	0.1154	0.1031	0.0912	0 kts
FLD_S58	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	45.9	2	0.0948	0.0964	0.1057	0.1187	0.1310	0.1397	0.1429	0.1401	0.1313	0.1175	0.1008	0.0844	0.0729	0.0707	0.0784	0.0925	0.1081	0.1214	0.1302	0.1334	0.1309	0.1234	0.1126	0.1015	2 kts	
FLD_S58	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	45.9	4	0.1076	0.1086	0.1165	0.1276	0.1377	0.1440	0.1448	0.1396	0.1285	0.1128	0.0945	0.0771	0.0550	0.0625	0.0711	0.0880	0.1058	0.1216	0.1329	0.1387	0.1386	0.1331	0.1239	0.1139	4 kts	
FLD_S58	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	45.9	6	0.1232	0.1237	0.1300	0.1388	0.1463	0.1498	0.1479	0.1400	0.1268	0.1089	0.0892	0.0708	0.0521	0.0562	0.0651	0.0844	0.1044	0.1226	0.1367	0.1451	0.1476	0.1444	0.1373	0.1286	6 kts	
FLD_S58	VERTICAL	ACCELERATION	Sbtd, A-Frame	SHORTCRESTED	45.9	7	0.1323	0.1325	0.1389	0.1454	0.1514	0.1534	0.1500	0.1407	0.1261	0.1074	0.0870	0.0682	0.0501	0.0541	0.0743	0.0931	0.1041	0.1226	0.1390	0.1489	0.1527	0.1509	0.1440	0.1374	7 kts	
Limit							Vertical Acceleration Limit (SS7-8)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Vertical Acceleration	Vertical Acceleration
	Sbtd, A-Frame	Sbtd, A-Frame
	Shortcrested	Shortcrested

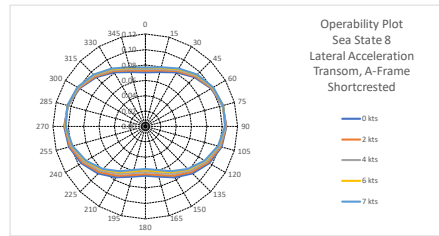
STD 0.026682
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	
FLD_S58	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	0	0.0705	0.0734	0.0825	0.0904	0.0997	0.1041	0.1054	0.1026	0.0959	0.0866	0.0763	0.0677	0.0642	0.0677	0.0763	0.0866	0.0959	0.1026	0.1054	0.1041	0.0987	0.0904	0.0810	0.0734	0 kts
FLD_S58	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	2	0.0725	0.0757	0.0829	0.0919	0.0997	0.1044	0.1049	0.1013	0.0940	0.0843	0.0738	0.0653	0.0619	0.0653	0.0738	0.0843	0.0940	0.1013	0.1049	0.1044	0.0997	0.0915	0.0829	0.0755	2 kts
FLD_S58	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	4	0.0759	0.0796	0.0876	0.0964	0.1043	0.1095	0.1093	0.1043	0.0959	0.0852	0.0738	0.0653	0.0619	0.0653	0.0738	0.0843	0.0940	0.1013	0.1049	0.1044	0.1006	0.0934	0.0846	0.0773	4 kts
FLD_S58	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	6	0.0799	0.0841	0.0921	0.1009	0.1088	0.1140	0.1137	0.1088	0.1000	0.0883	0.0763	0.0677	0.0642	0.0677	0.0763	0.0866	0.0959	0.1026	0.1054	0.1041	0.1006	0.0934	0.0846	0.0773	6 kts
FLD_S58	LATERAL	ACCELERATION	Transom, A-Frame	SHORTCRESTED	45.9	7	0.0766	0.0796	0.0869	0.0953	0.1019	0.1048	0.1034	0.0978	0.0883	0.0780	0.0671	0.0587	0.0554	0.0587	0.0671	0.0780	0.0889	0.0978	0.1034	0.1048	0.1019	0.0953	0.0869	0.0796	7 kts
Limit							Lateral Acceleration Limit (SS7-8)	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Lateral Acceleration	Lateral Acceleration
	Transom, A-Frame	Transom, A-Frame
	Shortcrested	Shortcrested

STD 0.011196
CONDITION PASSES

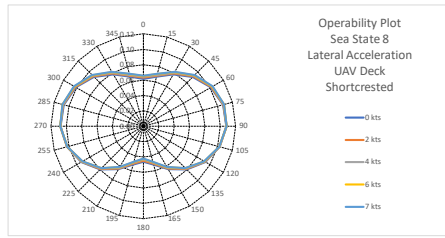


Preliminary Design, OLDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S58	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	0	0.0617	0.0666	0.0780	0.0908	0.1033	0.1072	0.1077	0.1027	0.0929	0.0794	0.0644	0.0516	0.0452	0.0516	0.0644	0.0794	0.0929	0.1027	0.1077	0.1072	0.1033	0.0908	0.0780	0.0666	0.0617	0 kts
FLD_S58	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	2	0.0631	0.0679	0.0793	0.0919	0.1022	0.1078	0.1080	0.1027	0.0924	0.0786	0.0633	0.0502	0.0447	0.0502	0.0633	0.0786	0.0924	0.1027	0.1078	0.1080	0.1027	0.0919	0.0793	0.0679	0.0631	2 kts
FLD_S58	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	4	0.0643	0.0691	0.0804	0.0929	0.1029	0.1083	0.1081	0.1025	0.0919	0.0778	0.0623	0.0490	0.0434	0.0490	0.0623	0.0778	0.0919	0.1025	0.1081	0.1083	0.1029	0.0929	0.0804	0.0691	0.0643	4 kts
FLD_S58	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	6	0.0654	0.0701	0.0814	0.0938	0.1036	0.1087	0.1081	0.1023	0.0914	0.0771	0.0614	0.0480	0.0424	0.0480	0.0614	0.0771	0.0914	0.1023	0.1082	0.1087	0.1036	0.0938	0.0814	0.0701	0.0654	6 kts
FLD_S58	LATERAL	ACCELERATION	UAV Deck	SHORTCRESTED	45.9	7	0.0659	0.0707	0.0819	0.0942	0.1039	0.1088	0.1083	0.1021	0.0912	0.0767	0.0610	0.0476	0.0419	0.0476	0.0610	0.0767	0.0912	0.1021	0.1083	0.1088	0.1039	0.0942	0.0819	0.0707	0.0659	7 kts
Limit				Lateral Acceleration Limit (S57-8)			0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Lateral Acceleration	Lateral Acceleration
	UAV Deck	UAV Deck
	Shortcrested	Shortcrested

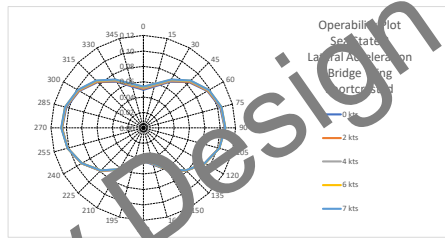
STD
0.020414
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S58	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	0	0.0496	0.0556	0.0692	0.0840	0.0962	0.1037	0.1056	0.1017	0.0925	0.0790	0.0634	0.0494	0.0432	0.0494	0.0634	0.0790	0.0925	0.1017	0.1056	0.1037	0.0962	0.0840	0.0692	0.0556	0.0496	0 kts
FLD_S58	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	2	0.0509	0.0568	0.0702	0.0849	0.0969	0.1043	0.1060	0.1019	0.0924	0.0787	0.0629	0.0487	0.0425	0.0487	0.0629	0.0787	0.0924	0.1019	0.1060	0.1043	0.0969	0.0849	0.0702	0.0568	0.0509	2 kts
FLD_S58	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	4	0.0521	0.0579	0.0712	0.0857	0.0976	0.1047	0.1063	0.1020	0.0923	0.0784	0.0625	0.0481	0.0419	0.0481	0.0625	0.0784	0.0923	0.1020	0.1063	0.1047	0.0976	0.0857	0.0712	0.0579	0.0521	4 kts
FLD_S58	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	6	0.0532	0.0590	0.0724	0.0865	0.0982	0.1052	0.1065	0.1020	0.0922	0.0782	0.0622	0.0478	0.0415	0.0478	0.0622	0.0782	0.0922	0.1020	0.1065	0.1052	0.0982	0.0865	0.0724	0.0590	0.0532	6 kts
FLD_S58	LATERAL	ACCELERATION	Bridge Wing	SHORTCRESTED	45.9	7	0.0537	0.0595	0.0726	0.0869	0.0985	0.1054	0.1066	0.1021	0.0921	0.0781	0.0620	0.0477	0.0414	0.0477	0.0620	0.0781	0.0921	0.1021	0.1066	0.1054	0.0985	0.0869	0.0726	0.0595	0.0537	7 kts
Limit				Lateral Acceleration Limit (S57-8)			0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Lateral Acceleration	Lateral Acceleration
	Bridge Wing	Bridge Wing
	Shortcrested	Shortcrested

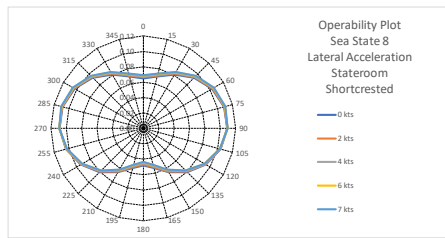
STD
0.021033
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345		
FLD_S58	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	0	0.0650	0.0710	0.0846	0.0990	0.1030	0.1087	0.1089	0.1038	0.0939	0.0805	0.0659	0.0535	0.0483	0.0535	0.0659	0.0805	0.0939	0.1038	0.1089	0.1087	0.1030	0.0990	0.0846	0.0710	0.0650	0 kts
FLD_S58	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	2	0.0665	0.0725	0.0861	0.0994	0.1040	0.1093	0.1092	0.1037	0.0933	0.0796	0.0646	0.0520	0.0466	0.0520	0.0646	0.0796	0.0933	0.1037	0.1092	0.1093	0.1040	0.0994	0.0861	0.0725	0.0665	2 kts
FLD_S58	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	4	0.0676	0.0735	0.0871	0.0994	0.1047	0.1097	0.1093	0.1034	0.0927	0.0786	0.0634	0.0506	0.0452	0.0506	0.0634	0.0786	0.0927	0.1034	0.1093	0.1097	0.1047	0.0994	0.0871	0.0735	0.0676	4 kts
FLD_S58	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	6	0.0681	0.0739	0.0874	0.0994	0.1050	0.1101	0.1093	0.1030	0.0920	0.0777	0.0624	0.0494	0.0440	0.0494	0.0624	0.0777	0.0920	0.1030	0.1093	0.1101	0.1054	0.0990	0.0841	0.0733	0.0681	6 kts
FLD_S58	LATERAL	ACCELERATION	Stateroom	SHORTCRESTED	45.9	7	0.0693	0.0751	0.0886	0.0994	0.1057	0.1103	0.1093	0.1029	0.0917	0.0773	0.0619	0.0489	0.0435	0.0489	0.0619	0.0773	0.0917	0.1029	0.1093	0.1103	0.1057	0.0994	0.0846	0.0738	0.0693	7 kts
Limit				Lateral Acceleration Limit (S57-8)			0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Lateral Acceleration	Lateral Acceleration
	Stateroom	Stateroom
	Shortcrested	Shortcrested

STD
0.021194
CONDITION PASSES

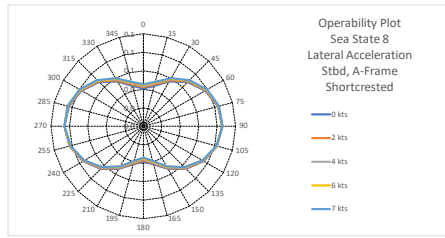


Preliminary Design, OLDR5

FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_S58	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	45.9	0	0.0409	0.0455	0.0560	0.0677	0.0774	0.0834	0.0854	0.0824	0.0750	0.0653	0.0533	0.0426	0.0330	0.0246	0.0533	0.0533	0.0653	0.0756	0.0824	0.0854	0.0834	0.0774	0.0677	0.0560	0.0455	0.0409	
FLD_S58	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	45.9	2	0.0423	0.0468	0.0572	0.0686	0.0781	0.0840	0.0855	0.0824	0.0751	0.0645	0.0523	0.0415	0.0336	0.0261	0.0523	0.0523	0.0645	0.0751	0.0824	0.0855	0.0840	0.0781	0.0686	0.0572	0.0468	0.0423	
FLD_S58	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	45.9	4	0.0436	0.0481	0.0583	0.0696	0.0788	0.0844	0.0853	0.0821	0.0745	0.0637	0.0513	0.0404	0.0336	0.0261	0.0513	0.0513	0.0637	0.0745	0.0821	0.0853	0.0844	0.0788	0.0696	0.0583	0.0481	0.0436	
FLD_S58	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	45.9	6	0.0449	0.0492	0.0594	0.0705	0.0795	0.0848	0.0856	0.0819	0.0740	0.0629	0.0504	0.0393	0.0330	0.0261	0.0393	0.0393	0.0504	0.0629	0.0740	0.0819	0.0856	0.0848	0.0795	0.0705	0.0594	0.0492	0.0449
FLD_S58	LATERAL	ACCELERATION	Stbd, A-Frame	SHORTCRESTED	45.9	7	0.0455	0.0498	0.0599	0.0709	0.0798	0.0850	0.0857	0.0818	0.0737	0.0626	0.0499	0.0388	0.0330	0.0261	0.0388	0.0388	0.0499	0.0626	0.0737	0.0818	0.0857	0.0850	0.0798	0.0709	0.0599	0.0498	0.0455
Limit				Lateral Acceleration Limit (SS7-8)			0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Lateral Acceleration	Lateral Acceleration
	Stbd, A-Frame	Stbd, A-Frame
	Shortcrested	Shortcrested

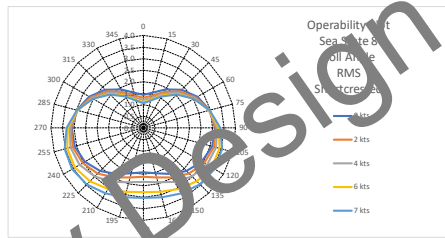
STD 0.016372
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345				
FLD_S58	ROLL	ANGLE	RMS	SHORTCRESTED	45.9	0	1.4400	1.5820	1.9260	2.3370	2.7100	2.9800	3.1100	3.0860	2.9150	2.6340	2.3070	2.0350	1.8150	1.6450	2.0350	2.0350	2.3070	2.6340	2.9150	3.0860	3.1100	2.9800	2.7100	2.3370	1.9260	1.5820	1.4400	
FLD_S58	ROLL	ANGLE	RMS	SHORTCRESTED	45.9	2	1.3120	1.4560	1.8070	2.2320	2.6370	2.9530	3.1370	3.1660	3.0410	2.7920	2.4840	2.2210	2.0600	1.9000	2.2210	2.0600	2.2920	2.6370	2.9530	3.1660	3.1370	2.9530	2.6370	2.2320	1.8070	1.4560	1.3120	
FLD_S58	ROLL	ANGLE	RMS	SHORTCRESTED	45.9	4	1.2140	1.3570	1.7080	2.1470	2.5380	2.9460	3.1850	3.2680	3.1890	2.9740	2.6900	2.4420	2.2820	2.1220	2.4420	2.2820	2.5380	2.9460	3.1890	3.2680	3.1850	2.9460	2.5380	2.1470	1.7080	1.3570	1.2140	
FLD_S58	ROLL	ANGLE	RMS	SHORTCRESTED	45.9	6	1.1210	1.2650	1.6160	2.0700	2.5380	2.9520	3.2590	3.4170	3.4130	3.2720	3.0570	2.8630	2.7030	2.5430	2.8630	2.7030	3.0570	3.2720	3.4130	3.4170	3.2590	2.9520	2.5380	2.0700	1.6160	1.2650	1.1210	
FLD_S58	ROLL	ANGLE	RMS	SHORTCRESTED	45.9	7	1.0795	1.2235	1.5700	2.0380	2.5245	2.9730	3.3255	3.5305	3.5660	3.4385	3.2730	3.1015	3.0000	2.8385	3.1015	2.8385	3.2730	3.4385	3.5305	3.5660	3.5305	3.3255	2.9730	2.5245	2.0380	1.5700	1.2235	1.0795
Limit				Roll Limit (SS7-8)			8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50		

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Roll Angle	Roll Angle
	RMS	RMS
	Shortcrested	Shortcrested

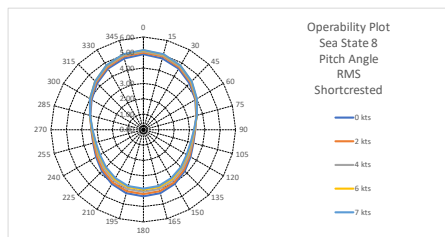
STD 0.683517
CONDITION PASSES



FileName	Motion Direction	Motion Type	POI	Wave Type	Wave Height	Speed/Heading	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345			
FLD_S58	PITCH	ANGLE	RMS	SHORTCRESTED	45.9	0	4.8770	5.7990	7.5750	9.2550	10.8890	12.5640	13.7720	14.4000	14.6900	14.5400	14.0810	13.4260	12.6360	11.7710	10.8890	10.0000	9.1110	8.2220	7.3330	6.4440	5.5550	4.6660	3.7770	2.8880	2.0000	1.1110	0.2220
FLD_S58	PITCH	ANGLE	RMS	SHORTCRESTED	45.9	2	4.9910	5.9130	7.6890	9.3690	11.0030	12.6780	13.8860	14.5140	14.8040	14.6540	14.1950	13.5400	12.7500	11.8610	10.9720	10.0830	9.1940	8.3050	7.4160	6.5270	5.6380	4.7490	3.8600	2.9710	2.0820	1.1930	0.3040
FLD_S58	PITCH	ANGLE	RMS	SHORTCRESTED	45.9	4	4.6000	5.5220	7.2980	8.9780	10.6020	12.2260	13.4340	14.0620	14.3520	14.2020	13.7430	13.0880	12.2980	11.4090	10.5200	9.6310	8.7420	7.8530	6.9640	6.0750	5.1860	4.2970	3.4080	2.5190	1.6300	0.7410	0.0000
FLD_S58	PITCH	ANGLE	RMS	SHORTCRESTED	45.9	6	4.1340	5.0560	6.8320	8.5120	10.1360	11.7600	12.9680	13.5960	13.8860	13.7360	13.2770	12.6220	11.8320	10.9430	10.0540	9.1650	8.2760	7.3870	6.4980	5.6090	4.7200	3.8310	2.9420	2.0530	1.1640	0.2750	0.0000
FLD_S58	PITCH	ANGLE	RMS	SHORTCRESTED	45.9	7	3.8150	4.7370	6.5130	8.1930	9.8170	11.4410	12.6490	13.2770	13.5670	13.4170	12.9580	12.3030	11.5130	10.6240	9.7350	8.8460	7.9570	7.0680	6.1790	5.2900	4.4010	3.5120	2.6230	1.7340	0.8450	0.0000	0.0000
Limit				Pitch Limit (SS7-8)			2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	

Chart Title	Operability Plot	Operability Plot
	Sea State 8	Sea State 8
	Pitch Angle	Pitch Angle
	RMS	RMS
	Shortcrested	Shortcrested

STD 0.57086
CONDITION PASSES



Preliminary Design, ©IDR5