

### **FOREWORD**

THE SIMBAD POST-PROCESSING PROGRAM PROVIDES, FROM THE SIMBAD CALCULATION RESULTS:

- PLOTS OF TIME SERIES OF MOORING LINE AND FENDER LOADS
- PLOTS OF MOTIONS, SPEEDS AND ACCELERATIONS AT THE CENTER OF GRAVITY AND AT OTHER POSSIBLE POINTS OF THE SHIP

THESE RESULTS CAN BE ALSO POST-PROCESSED, IN ORDER TO OBTAIN:

- TABLES OF RESULTS, INCLUDING:
  - $\blacktriangleright$  Minimum and maximum values over the time series, F1/3 and F1/10 values that are the mean of  $3^{RD}$  or  $10^{TH}$  highest part of the time series distribution
  - ➤ THE MOST PROBABLE MAXIMUM AND MINIMUM (MPM) STATISTICAL VALUES OF THE PEAK REPONSES GIVEN RESPECTIVELY BY: AVERAGE VALUE + OR 3.8 X STANDARD DEVIATION

### **NOTICE**

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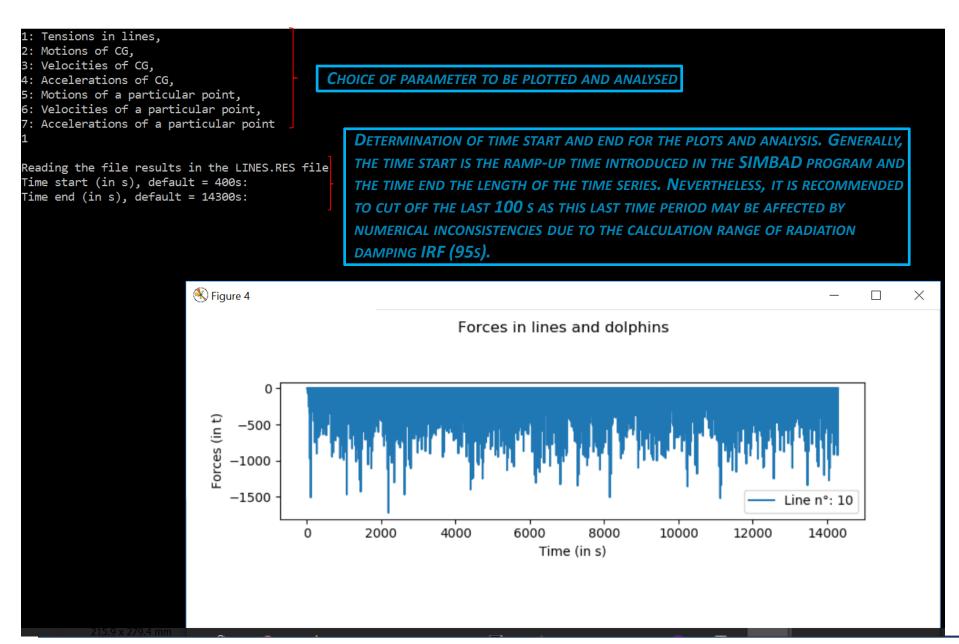
THE INPUT DATA ARE READ FROM THE SIMBAD OUTPUT FILES: "\*.RES"

#### **RESULTS ARE WRITTEN INTO DIFFERENT OUTPUT FILES:**

- ➤ "MAX\_MIN.TXT", FOR MOORING LINE AND FENDER LOADS
- **►** "MOTIONCG.TXT", FOR THE MOTIONS, VELOCITIES OR ACCELERATIONS OF CENTRE OF GRAVITY
- ➤ "MOTIONPT.TXT", FOR THE MOTIONS, VELOCITIES OR ACCELERATIONS OF A SPECIFIC POINT

THESE FILES ARE DESCRIBED IN DETAILS HEREAFTER.

#### RUNNING THE SIMBAD POST-PROCESSING PROGRAM: AN EXAMPLE OF RUN IS GIVEN HEREAFTER



## RUNNING THE SIMBAD POST-PROCESSING PROGRAM: RESULT FILE "MAX\_MIN.TXT", FOR MOORING LINE AND FENDER LOADS

		Forces				
Line n	°: Min	Max	Minst.	Maxst.	F1/3	F1/10
1	0.00	112.10	0.00	100.65	65.15	77.77
2	0.00	118.40	0.00	107.35	68.84	82.36
3	0.00	113.80	0.00	102.40	66.07	78.82
4	17.99	42.29	19.85	38.59	32.02	34.48
5	16.55	50.38	19.43	46.11	36.81	40.20
6	0.00	153.30	0.00	133.53	84.34	101.36
7	0.00	158.60	0.00	138.25	86.85	104.66
8	0.00	151.50	0.00	132.54	83.51	100.69
9	-1521.00	0.00	-1485.82	0.00	-813.07	-1013.06
10	-1720.00	0.00	-1642.66	0.00	-890.24	-1125.18

MINIMUM AND MAXIMUM VALUES, MAXIMUM AND MINIMUM STATISTICAL VALUES, F1/3 AND F1/10 VALUES

# RUNNING THE SIMBAD POST-PROCESSING PROGRAM: RESULT FILE "MOTIONCG.TXT", FOR THE MOTIONS, VELOCITIES OR ACCELERATIONS OF CENTRE OF GRAVITY

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Min	Max	Minst.	Maxst.	F1/3	F1/10		
-0.049	0.0724	-0.059	0.0857	0.0458	0.0567		
-2.676	1.12	-2.494	1.1784	-1.274	-1.668		
-1.281	1.381	-1.264	1.2610	-0.671	-0.857		
-3.81	3.443	-3.754	3.4590	-2.010	-2.520		
-0.034	0.0414	-0.035	0.0410	0.0220	0.0274		
-0.494	0.3937	-0.514	0.3927	-0.268	-0.335		
	Min -0.049 -2.676 -1.281 -3.81 -0.034	-0.049 0.0724 -2.676 1.12 -1.281 1.381 -3.81 3.443 -0.034 0.0414	Min Max Minst0.049 0.0724 -0.059 -2.676 1.12 -2.494 -1.281 1.381 -1.264 -3.81 3.443 -3.754 -0.034 0.0414 -0.035	Min Max Minst. Maxst0.049 0.0724 -0.059 0.0857 -2.676 1.12 -2.494 1.1784 -1.281 1.381 -1.264 1.2610 -3.81 3.443 -3.754 3.4590 -0.034 0.0414 -0.035 0.0410	Min Max Minst. Maxst. F1/3 -0.049 0.0724 -0.059 0.0857 0.0458 -2.676 1.12 -2.494 1.1784 -1.274 -1.281 1.381 -1.264 1.2610 -0.671 -3.81 3.443 -3.754 3.4590 -2.010 -0.034 0.0414 -0.035 0.0410 0.0220		

MINIMUM AND MAXIMUM VALUES, MAXIMUM AND MINIMUM STATISTICAL VALUES, F1/3 AND F1/10 VALUES

# RUNNING THE SIMBAD POST-PROCESSING PROGRAM: RESULT FILE "MOTIONPT.TXT", FOR THE MOTIONS, VELOCITIES OR ACCELERATIONS OF A PARTICULAR POINT

Motion							
	Type:	Min	Max	Minst.	Maxst.	F1/3	F1/10
	X	-2.772	1.215	-2.763	1.7640	-1.423	-1.761
	Υ	-1.156	0.5952	-0.981	0.6425	-0.556	-0.728
	Z	-0.986	0.7788	-0.849	0.7255	-0.469	-0.584

MINIMUM AND MAXIMUM VALUES, MAXIMUM AND MINIMUM STATISTICAL VALUES, F1/3 AND F1/10 VALUES