



Global Irminger MFM B 2014 Mooring Model Analysis

designed for 2800m Depth



By: P. Chua

05-Aug-2014

DCN: 3202-00012

REV: B

REF.DES. GI04FLMB

Source: 05-Aug-2014 14:26:44, ...Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

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Revision History

3202-00012_Global_Irminger_MFM_B_2014_Mooring_Model_Analysis_2014-08-05_RevB

Rev#	Date	Author	Description
A	31-Oct-2012	C.Begler	Initial Release, ECR# 1303-00860
B	05-Aug-2014	P. Chua	OSNAP Instruments Added & Depth, ECR# 1303-01362



Global Irminger MFM B 2014 Mooring Model Analysis

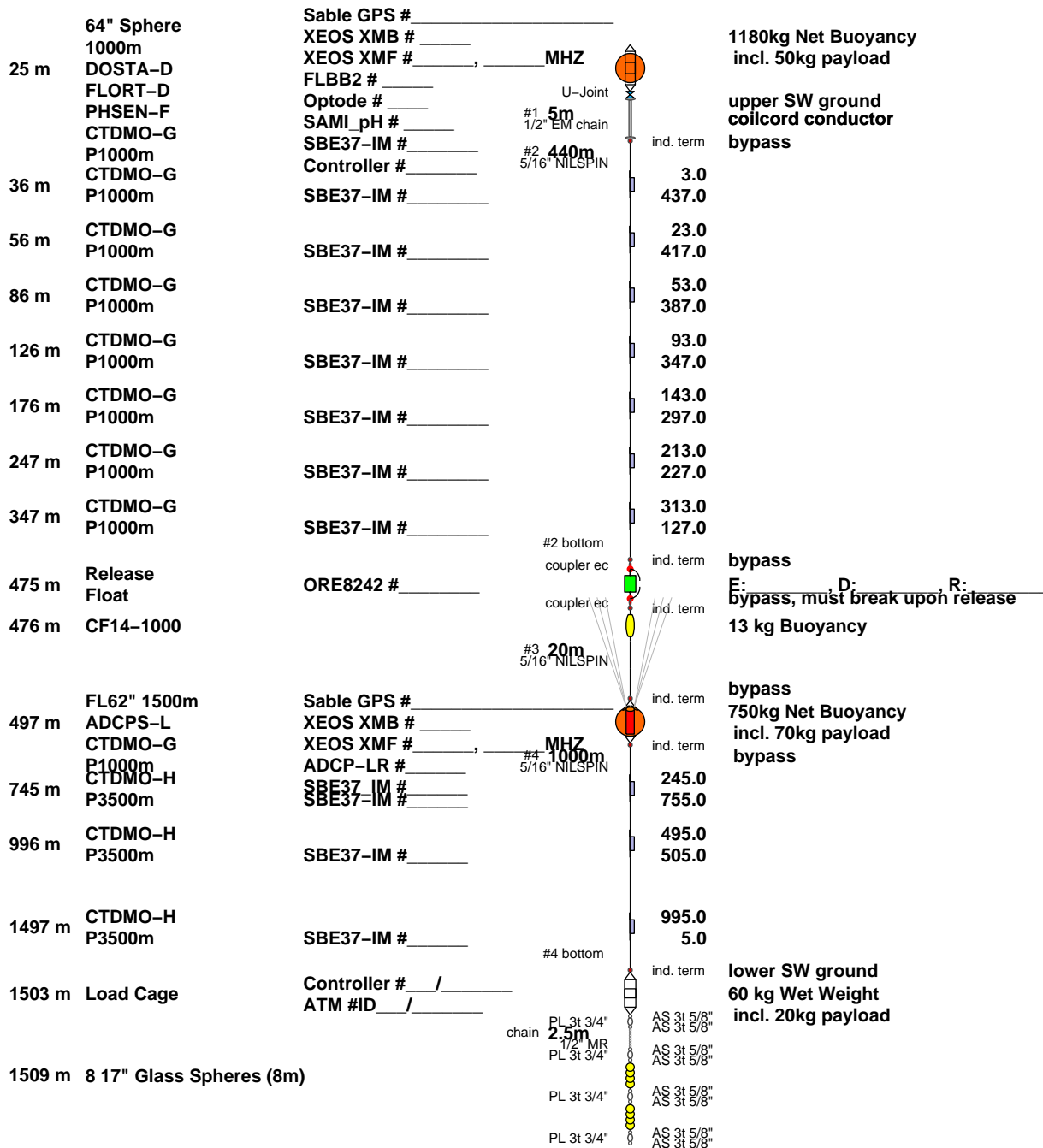
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depth	component (incl. stretch)	instruments	rope # & Length	Distance from Upper / Lower rope end
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depth	component (incl. stretch)	instruments	rope # & Length	Distance from Upper / Lower rope end

			#5 100m 5/16" NLS PIN	AS 3t 5/8" AS 3t 5/8"	
			#6 100m 5/16" NLS PIN	AS 3t 5/8" AS 3t 5/8"	
			#7 100m 5/16" NLS PIN	AS 3t 5/8" AS 3t 5/8"	
1796 m	VELPT-B	AQDP # _____ / _____		79.0	
				921.0	
1797 m	CTDMO-H P3500m	SBE37-IM # _____		80.0	
				920.0	
2097 m	VELPT-B	AQDP # _____ / _____		379.0	
				621.0	
2098 m	CTDMO-H P3500m	SBE37-IM # _____		380.0	
				620.0	
2398 m	VELPT-B	AQDP # _____ / _____		679.0	
				321.0	
2399 m	CTDMO-H P3500m	SBE37-IM # _____		680.0	
				320.0	
2699 m	VELPT-B	AQDP # _____ / _____		979.0	
				21.0	
2700 m	CTDMO-H P3500m	SBE37-IM # _____		980.0	
				20.0	
2720 m	Parachute 1.50 sqm (1.38 diam)		#7 bottom		
			chain PL 3t 3/4" 5.0m MR PL 3t 3/4"	AS 3t 5/8" AS 3t 5/8"	114" Delta Drogue
2728 m	32 17" Glass Spheres (34m)		PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4" PL 3t 3/4"	AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8"	
			chain PL 3t 3/4" 5.0m MR Swivel 5t PL 3t 3/4"	AS 3t 5/8" AS 3t 5/8" AS 5t 3/4" AS 5t 3/4"	# _____ : E: _____ / D: _____ / R: _____
2766 m	Dual Release	ORE8242 # _____ ORE8242 # _____	chain 1/2" drop chain ML 17t 1-1/4" EL 6t 7/8" chain 5.0m MR PL 3t 3/4"	AS 6t 7/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8"	# _____ : E: _____ / D: _____ / R: _____
2793 m	Parachute 1.50 sqm (1.38 diam)		#8 20m Nystrom-1"		114" Delta Drogue
			chain EL 6t 7/8" 5.0m MR 3/4" PL 3t 3/4"	AS 6t 7/8" AS 6t 7/8" AS 5t 3/4" AS 6t 7/8"	
2800 m	double MACE Anchor 3170 kg dry 2742 kg wet				



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Element List

Code	Count	Label	Weight in air	/	water

Components					
13	6	Inductive Termination	18.0 kg		14.4 kg
15	2	Special Coupler Eye-Clevis	16.0 kg		12.0 kg
17	1	45deg Universal Joint	25.0 kg		16.3 kg
32	37	5/8" Bolt Type Anchor Shackle (AS) 3.2t	28.1 kg		24.5 kg
33	4	3/4" Bolt Type Anchor Shackle (AS) 4.7t	4.9 kg		4.3 kg
34	5	7/8" Bolt Type Anchor Shackle (AS) 6.5t	8.9 kg		7.8 kg
53	21	3/4" Pear Link (PL) 2.7t	18.1 kg		15.5 kg
64	2	7/8" End Link (EL) 6.3t	2.4 kg		2.1 kg
76	1	1-1/4" Master Link (ML) 17t	5.5 kg		4.8 kg
94	1	SS Swivel 5t	6.2 kg		5.3 kg
256	1	Cable Float CF14 1000m	25.0 kg		-13.0 kg
274	10	4 17" Glass Sphere 204HR on 4m chain	960.0 kg		-880.0 kg
300	1	Load Cage w/ Controller, ACOMM	50.0 kg		60.0 kg
306	1	64" Syntactic Sphere 1000m	1100.0 kg		-1180.0 kg
326	1	62" float 1500m, LR-ADCP	1150.0 kg		-750.0 kg
347	4	Aquadopp DW clamp	38.0 kg		24.0 kg
374	7	CTDMO-G P1000m IM, clamp on	26.6 kg		19.6 kg
375	7	CTDMO-H P3500m IM, clamp on	26.6 kg		19.6 kg
478	1	Dual Acoustic Release	77.0 kg		61.0 kg
479	1	Acoustic Release in Float	121.0 kg		-0.0 kg
480	1	DropChain 1/2"-4ft	7.8 kg		6.8 kg
491	2	Parachute	NaN kg		-0.0 kg

Components weight :			3715.2 kg		-2525.0 kg

Ropes					
103	2660m	5/16" 3x19 Jac. NILSPIN wire	829.9 kg		566.6 kg
113	20m	Samson Nystron 1"	10.1 kg		2.0 kg
141	5m	EM chain 1/2", 2.7t	90.0 kg		35.0 kg
181	18m	Mooring (MR) chain 1/2", 2.7t	61.3 kg		53.2 kg
183	5m	Mooring (MR) chain 3/4", 6.0t	38.0 kg		33.1 kg

Ropes weight :			1029.3 kg		689.8 kg

Summary					
			Components		3715.2 kg -2525.0 kg
			Ropes		1029.3 kg 689.8 kg
522	1	double MACE Anchor	3170.0 kg		2742.1 kg

Mooring total weight :			7914.4 kg		906.9 kg



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Rope List

#	Code	Length	Label	Weight in air	/	water
1	141	5m	EM chain 1/2", 2.7t	90.0 kg		35.0 kg
2x	103	440m	5/16" 3x19 Jac. NILSPIN wire	137.3 kg		93.7 kg
3x	103	20m	5/16" 3x19 Jac. NILSPIN wire	6.2 kg		4.3 kg
4x	103	1000m	5/16" 3x19 Jac. NILSPIN wire	312.0 kg		213.0 kg
	181	3m	Mooring (MR) chain 1/2", 2.7t	8.8 kg		7.6 kg
5	103	100m	5/16" 3x19 Jac. NILSPIN wire	31.2 kg		21.3 kg
6	103	100m	5/16" 3x19 Jac. NILSPIN wire	31.2 kg		21.3 kg
7	103	1000m	5/16" 3x19 Jac. NILSPIN wire	312.0 kg		213.0 kg
	181	5m	Mooring (MR) chain 1/2", 2.7t	17.5 kg		15.2 kg
	181	5m	Mooring (MR) chain 1/2", 2.7t	17.5 kg		15.2 kg
	181	5m	Mooring (MR) chain 1/2", 2.7t	17.5 kg		15.2 kg
8	113	20m	Samson Nystron 1"	10.1 kg		2.0 kg
	183	5m	Mooring (MR) chain 3/4", 6.0t	38.0 kg		33.1 kg

Symmetric Marker: 36

#	Length	Type	Position of Markers [m]
2x	440m	5/16" NILSPIN:	3, 23, 53, 93, 127, 143, 213, 227 297, 313, 347, 387, 417, 437
4x	1000m	5/16" NILSPIN:	5, 245, 495, 505, 755, 995
7	1000m	5/16" NILSPIN:	20, 21, 79, 80, 320, 321, 379, 380 620, 621, 679, 680, 920, 921, 979, 980



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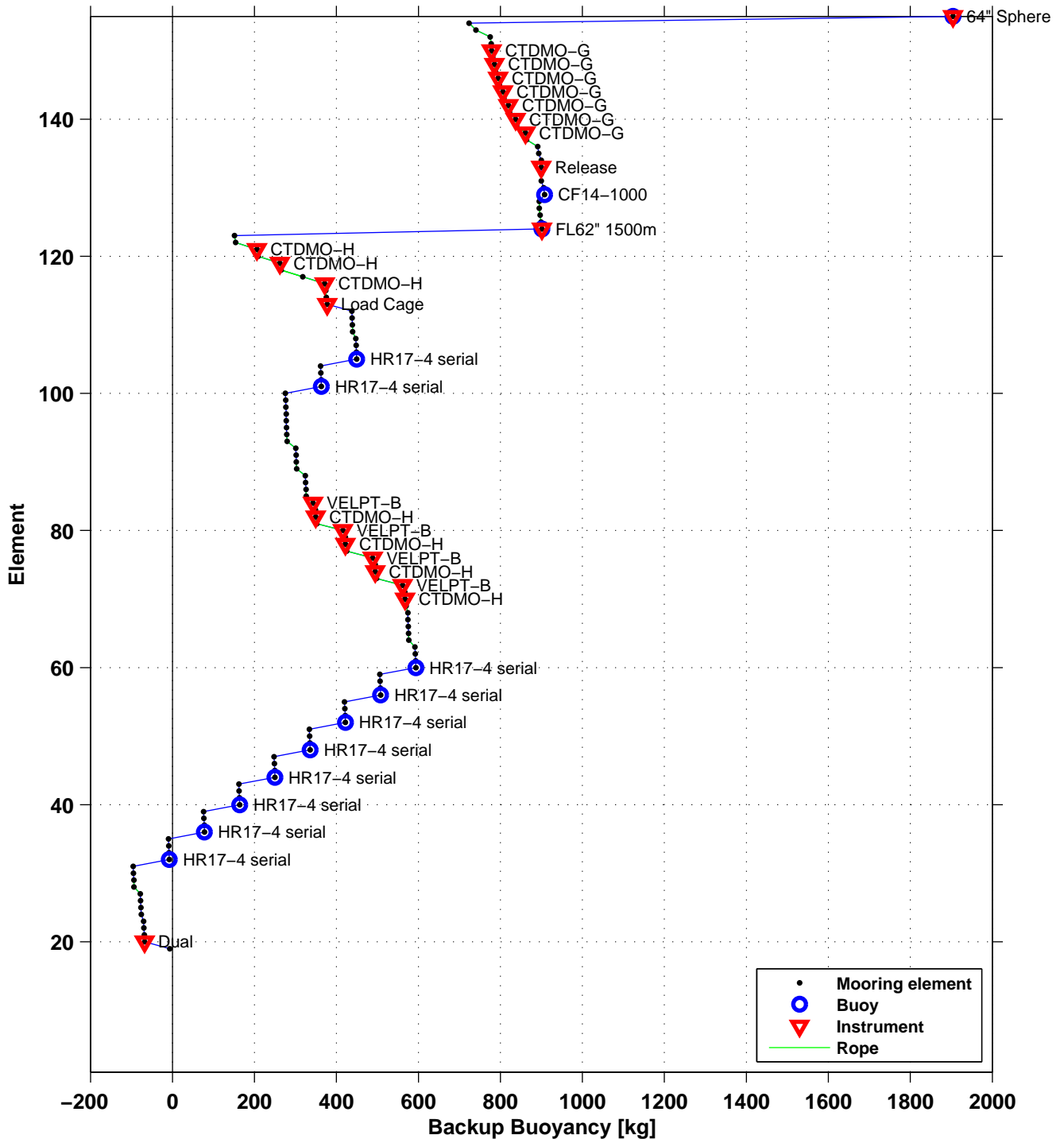
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Backup Buoyancy



NO Current Vertical anchor load : 1835 kg
 Wet safe anchor weight : 2294 kg (125%, max: 500 kg)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



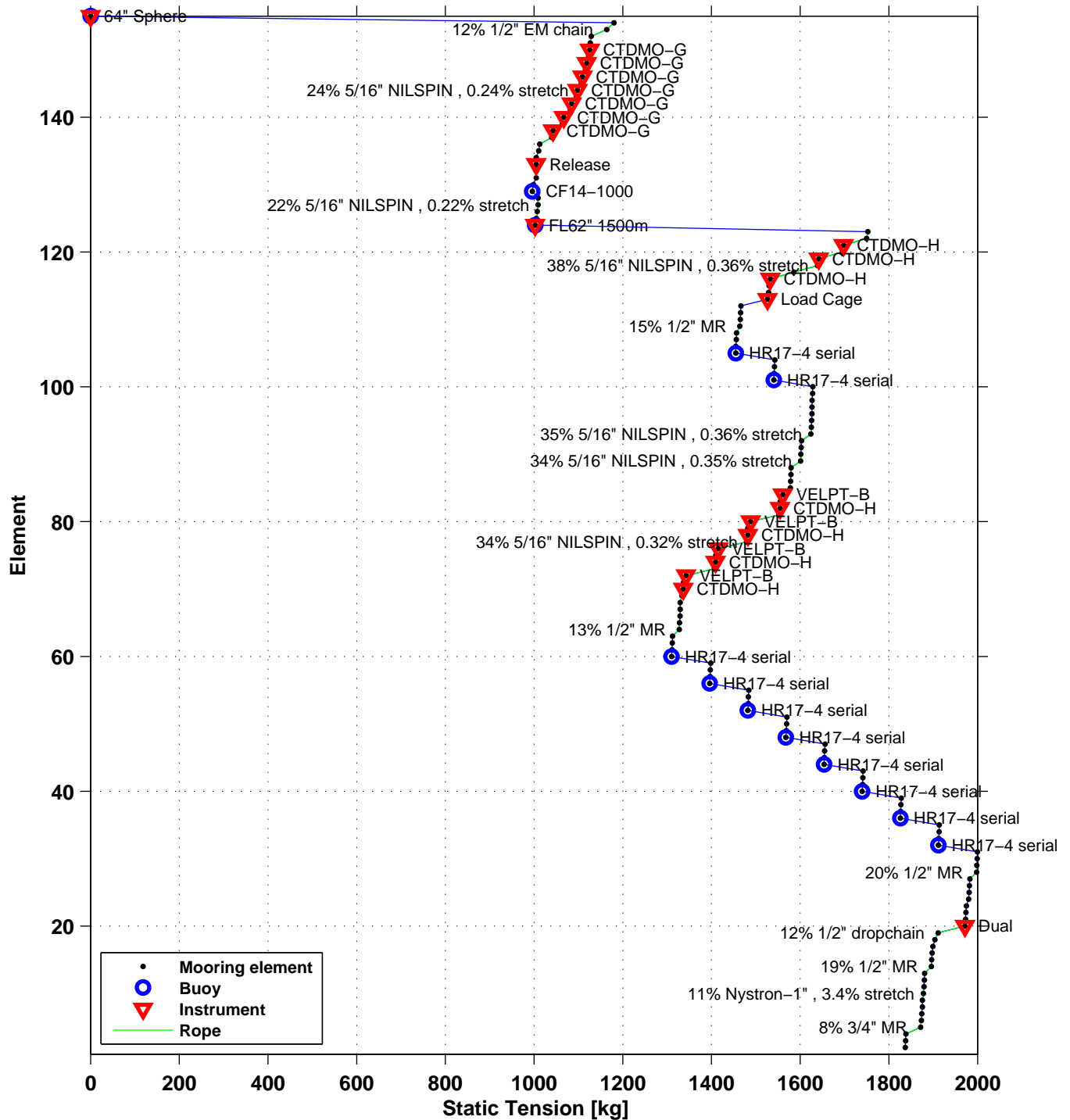
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No Current Static Tension



NO Current Vertical anchor load : 1835 kg
Wet safe anchor weight : 2294 kg (125%, max: 500 kg)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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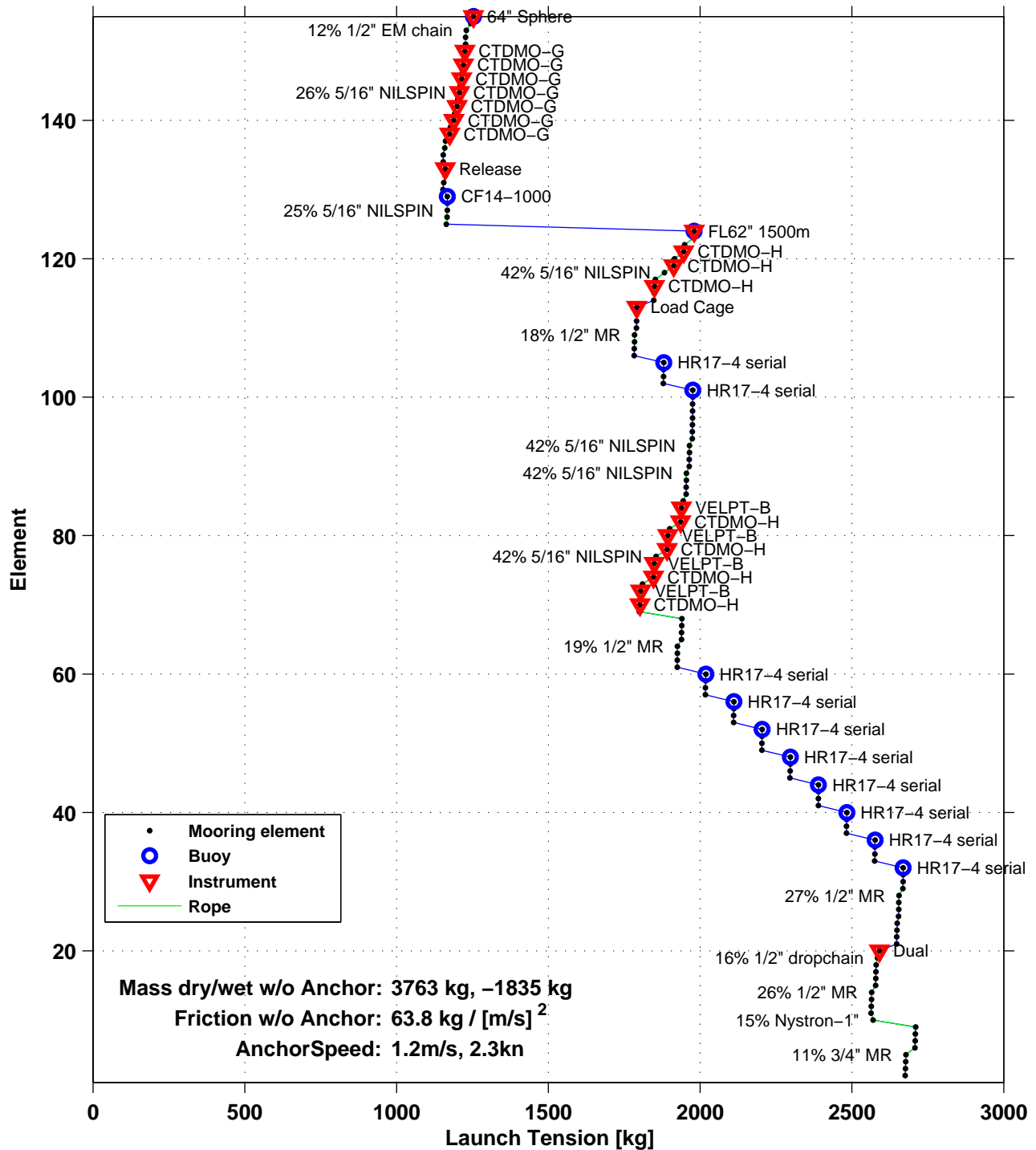
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Steady State Launch Tension



NO Current Vertical anchor load: 1835 kg
Wet safe anchor weight: 2294 kg (125%, max: 500 kg)
Wet / Dry MACE anchor weight: 2742 kg / 3170 kg



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No Current Static Solution – Parameter

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension [kg]	[%]	Stretch [m]	[%]	
155	306	64" Sphere	100	2.3	1180.0	1904.0	2774.6	25.4	0.0	0.0	0.00	0.00
154	17	U-Joint	0.3	-16.3	724.0	2772.3	27.8	1180.0	7.4	0.00	0.00	0.00
153	141	1/2" EM chain	5.0	-35.0	740.3	2772.0	30.5	1163.7	11.6	0.00	0.00	0.00
152	13	ind. term	0.1	-2.4	775.3	2767.0	33.0	1128.7	7.1	0.00	0.00	0.00
151	103	5/16" NILSPIN	3.0	-0.6	777.7	2766.9	34.6	1126.3	24.2	0.01	0.25	0.00
150	374	CTDMO-G P1000m	0.0	-2.8	778.3	2763.9	36.1	1125.7	11.3	0.00	0.00	0.00
149	103	5/16" NILSPIN	20.0	-4.3	781.1	2763.9	46.1	1122.9	24.1	0.05	0.25	0.00
148	374	CTDMO-G P1000m	0.0	-2.8	785.4	2743.9	56.1	1118.6	11.2	0.00	0.00	0.00
147	103	5/16" NILSPIN	30.1	-6.4	788.2	2743.9	71.1	1115.8	24.0	0.07	0.25	0.00
146	374	CTDMO-G P1000m	0.0	-2.8	794.6	2713.8	86.2	1109.4	11.1	0.00	0.00	0.00
145	103	5/16" NILSPIN	40.1	-8.5	797.4	2713.8	106.2	1106.6	23.8	0.10	0.24	0.00
144	374	CTDMO-G P1000m	0.0	-2.8	805.9	2673.7	126.3	1098.1	11.0	0.00	0.00	0.00
143	103	5/16" NILSPIN	50.1	-10.6	808.7	2673.7	151.3	1095.3	23.5	0.12	0.24	0.00
142	374	CTDMO-G P1000m	0.0	-2.8	819.3	2623.6	176.4	1084.6	10.8	0.00	0.00	0.00
141	103	5/16" NILSPIN	70.2	-14.9	822.1	2623.6	211.5	1081.8	23.3	0.17	0.24	0.00
140	374	CTDMO-G P1000m	0.0	-2.8	837.0	2553.4	246.6	1066.9	10.7	0.00	0.00	0.00
139	103	5/16" NILSPIN	100.2	-21.3	839.8	2553.4	296.7	1064.1	22.9	0.23	0.23	0.00
138	374	CTDMO-G P1000m	0.0	-2.8	861.1	2453.2	346.8	1042.8	10.4	0.00	0.00	0.00
137	103	5/16" NILSPIN	127.3	-27.1	863.9	2453.2	410.4	1040.0	22.4	0.29	0.23	0.00
136	13	ind. term	0.1	-2.4	891.0	2325.9	474.1	1013.0	6.3	0.00	0.00	0.00
135	15	coupler ec	0.2	-6.0	893.4	2325.8	474.3	1010.6	6.3	0.00	0.00	0.00
133	479	Release Float	1.0	0.0	899.4	2325.6	474.9	1004.6	10.0	0.00	0.00	0.00
131	15	coupler ec	0.2	-6.0	899.4	2324.6	475.5	1004.6	6.3	0.00	0.00	0.00
130	13	ind. term	0.1	-2.4	905.4	2324.4	475.6	998.6	6.2	0.00	0.00	0.00
129	256	CF14-1000	0.0	13.0	907.8	2324.3	475.7	996.2	16.6	0.00	0.00	0.00
127	103	5/16" NILSPIN	10.0	-2.1	894.8	2324.3	480.7	1009.2	21.7	0.02	0.22	0.00
126	103	5/16" NILSPIN	10.0	-2.1	896.9	2314.3	490.7	1007.1	21.6	0.02	0.22	0.00



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No Current Static Solution – Parameter, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension [kg]	[%]	Stretch [m]	[%]
125	13	ind. term	0.1	-2.4	899.0	2304.3	495.8	1004.9	6.3	0.00	0.00
124	326	FL62" 1500m ADC	2.8	750.0	901.4	2304.2	497.2	1002.5	10.0	0.00	0.00
123	13	ind. term	0.1	-2.4	151.4	2301.3	498.7	1752.5	11.0	0.00	0.00
122	103	5/16" NILSPIN	245.9	-52.2	153.8	2301.2	621.7	1750.1	37.6	0.94	0.38
121	375	CTDMO-H P3500m	0.0	-2.8	206.0	2055.3	744.7	1697.9	17.0	0.00	0.00
120	103	5/16" NILSPIN	250.9	-53.3	208.8	2055.3	870.2	1695.1	36.4	0.92	0.37
119	375	CTDMO-H P3500m	0.0	-2.8	262.1	1804.4	995.6	1641.9	16.4	0.00	0.00
118	103	5/16" NILSPIN	250.9	-53.3	264.9	1804.4	1121.1	1639.1	35.2	0.89	0.36
117	103	5/16" NILSPIN	250.9	-53.3	318.1	1553.5	1371.9	1585.8	34.1	0.86	0.35
116	375	CTDMO-H P3500m	0.0	-2.8	371.4	1302.6	1497.4	1532.6	15.3	0.00	0.00
115	103	5/16" NILSPIN	5.0	-1.1	374.2	1302.6	1499.9	1529.8	32.9	0.02	0.34
114	13	ind. term	0.1	-2.4	375.2	1297.6	1502.4	1528.7	9.6	0.00	0.00
113	300	Load Cage	1.5	-60.0	377.6	1297.5	1503.2	1526.3	15.3	0.00	0.00
112	32	AS 3t 5/8"	0.1	-0.7	437.6	1296.0	1504.0	1466.3	12.2	0.00	0.00
111	53	PL 3t 3/4"	0.1	-0.7	438.3	1295.9	1504.1	1465.7	12.2	0.00	0.00
110	32	AS 3t 5/8"	0.1	-0.7	439.0	1295.8	1504.2	1464.9	12.2	0.00	0.00
109	181	1/2" MR	2.5	-7.6	439.7	1295.8	1505.5	1464.3	14.6	0.00	0.00
108	32	AS 3t 5/8"	0.1	-0.7	447.3	1293.3	1506.8	1456.7	12.1	0.00	0.00
107	53	PL 3t 3/4"	0.1	-0.7	448.0	1293.2	1506.9	1456.0	12.1	0.00	0.00
106	32	AS 3t 5/8"	0.1	-0.7	448.7	1293.1	1506.9	1455.3	12.1	0.00	0.00
105	274	HR17-4 serial	4.0	88.0	449.4	1293.0	1509.0	1454.6	14.5	0.00	0.00
104	32	AS 3t 5/8"	0.1	-0.7	361.4	1289.0	1511.0	1542.6	12.9	0.00	0.00
103	53	PL 3t 3/4"	0.1	-0.7	362.0	1289.0	1511.1	1541.9	12.8	0.00	0.00
102	32	AS 3t 5/8"	0.1	-0.7	362.8	1288.8	1511.2	1541.2	12.8	0.00	0.00
101	274	HR17-4 serial	4.0	88.0	363.4	1288.8	1513.2	1540.5	15.4	0.00	0.00
100	32	AS 3t 5/8"	0.1	-0.7	275.4	1284.8	1515.3	1628.5	13.6	0.00	0.00
99	53	PL 3t 3/4"	0.1	-0.7	276.1	1284.7	1515.3	1627.9	13.6	0.00	0.00



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No Current Static Solution – Parameter, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension		Stretch	
								[kg]	[%]	[m]	[%]
98	32	AS 3t 5/8"	0.1	-0.7	276.8	1284.6	1515.4	1627.1	13.6	0.00	0.00
96	32	AS 3t 5/8"	0.1	-0.7	277.5	1284.5	1515.5	1626.5	13.6	0.00	0.00
95	53	PL 3t 3/4"	0.1	-0.7	278.2	1284.5	1515.6	1625.8	13.5	0.00	0.00
94	32	AS 3t 5/8"	0.1	-0.7	278.9	1284.4	1515.7	1625.1	13.5	0.00	0.00
93	103	5/16" NILSPIN	100.4	-21.3	279.6	1284.3	1565.9	1624.4	34.9	0.36	0.36
92	32	AS 3t 5/8"	0.1	-0.7	300.9	1183.9	1616.1	1603.1	13.4	0.00	0.00
91	53	PL 3t 3/4"	0.1	-0.7	301.5	1183.9	1616.2	1602.4	13.4	0.00	0.00
90	32	AS 3t 5/8"	0.1	-0.7	302.3	1183.8	1616.3	1601.7	13.3	0.00	0.00
89	103	5/16" NILSPIN	100.4	-21.3	302.9	1183.7	1666.5	1601.0	34.4	0.35	0.35
88	32	AS 3t 5/8"	0.1	-0.7	324.2	1083.3	1716.7	1579.7	13.2	0.00	0.00
87	53	PL 3t 3/4"	0.1	-0.7	324.9	1083.3	1716.8	1579.1	13.2	0.00	0.00
86	32	AS 3t 5/8"	0.1	-0.7	325.6	1083.2	1716.9	1578.3	13.2	0.00	0.00
85	103	5/16" NILSPIN	79.3	-16.8	326.3	1083.1	1756.5	1577.7	33.9	0.27	0.35
84	347	VELPT-B	0.0	-6.0	343.1	1003.8	1796.2	1560.9	15.6	0.00	0.00
83	103	5/16" NILSPIN	1.0	-0.2	349.1	1003.8	1796.7	1554.9	33.4	0.00	0.34
82	375	CTDMO-H P3500m	0.0	-2.8	349.3	1002.8	1797.2	1554.6	15.5	0.00	0.00
81	103	5/16" NILSPIN	300.0	-63.7	352.1	1002.8	1947.2	1551.8	33.4	1.01	0.34
80	347	VELPT-B	0.0	-6.0	415.8	702.8	2097.2	1488.2	14.9	0.00	0.00
79	103	5/16" NILSPIN	1.0	-0.2	421.8	702.8	2097.7	1482.2	31.9	0.00	0.33
78	375	CTDMO-H P3500m	0.0	-2.8	422.0	701.8	2098.2	1481.9	14.8	0.00	0.00
77	103	5/16" NILSPIN	300.0	-63.7	424.8	701.8	2248.2	1479.1	31.8	0.96	0.32
76	347	VELPT-B	0.0	-6.0	488.5	401.8	2398.2	1415.5	14.2	0.00	0.00
75	103	5/16" NILSPIN	1.0	-0.2	494.5	401.8	2398.7	1409.5	30.3	0.00	0.31
74	375	CTDMO-H P3500m	0.0	-2.8	494.7	400.8	2399.2	1409.2	14.1	0.00	0.00
73	103	5/16" NILSPIN	299.9	-63.7	497.5	400.8	2549.1	1406.4	30.2	0.91	0.30
72	347	VELPT-B	0.0	-6.0	561.2	100.9	2699.1	1342.8	13.4	0.00	0.00
71	103	5/16" NILSPIN	1.0	-0.2	567.2	100.9	2699.6	1336.8	28.7	0.00	0.30



Global Irminger MFM B 2014 Mooring Model Analysis
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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

No Current Static Solution – Parameter, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension [kg]	[%]	Stretch [m]	[%]
70	375	CTDMO-H P3500m	0.0	-2.8	567.4	99.9	2700.1	1336.5	13.4	0.00	0.00
69	103	5/16" NILSPIN	20.1	-4.3	570.2	99.9	2710.1	1333.7	28.7	0.06	0.30
68	491	Parachute	0.0	0.0	574.5	79.9	2720.1	1329.5	13.3	0.00	0.00
67	32	AS 3t 5/8"	0.1	-0.7	574.5	79.9	2720.2	1329.5	11.1	0.00	0.00
66	53	PL 3t 3/4"	0.1	-0.7	575.1	79.8	2720.3	1328.8	11.1	0.00	0.00
65	32	AS 3t 5/8"	0.1	-0.7	575.9	79.7	2720.3	1328.1	11.1	0.00	0.00
64	181	1/2" MR	5.0	-15.2	576.5	79.6	2722.9	1327.4	13.3	0.00	0.00
63	32	AS 3t 5/8"	0.1	-0.7	591.7	74.6	2725.4	1312.2	10.9	0.00	0.00
62	53	PL 3t 3/4"	0.1	-0.7	592.4	74.6	2725.5	1311.6	10.9	0.00	0.00
61	32	AS 3t 5/8"	0.1	-0.7	593.1	74.4	2725.6	1310.8	10.9	0.00	0.00
60	274	HR17-4 serial	4.0	88.0	593.8	74.4	2727.6	1310.2	13.1	0.00	0.00
59	32	AS 3t 5/8"	0.1	-0.7	505.8	70.4	2729.7	1398.2	11.7	0.00	0.00
58	53	PL 3t 3/4"	0.1	-0.7	506.5	70.3	2729.7	1397.5	11.6	0.00	0.00
57	32	AS 3t 5/8"	0.1	-0.7	507.2	70.2	2729.8	1396.8	11.6	0.00	0.00
56	274	HR17-4 serial	4.0	88.0	507.9	70.1	2731.9	1396.1	14.0	0.00	0.00
55	32	AS 3t 5/8"	0.1	-0.7	419.9	66.1	2733.9	1484.1	12.4	0.00	0.00
54	53	PL 3t 3/4"	0.1	-0.7	420.5	66.1	2734.0	1483.4	12.4	0.00	0.00
53	32	AS 3t 5/8"	0.1	-0.7	421.3	66.0	2734.1	1482.7	12.4	0.00	0.00
52	274	HR17-4 serial	4.0	88.0	421.9	65.9	2736.1	1482.0	14.8	0.00	0.00
51	32	AS 3t 5/8"	0.1	-0.7	333.9	61.9	2738.1	1570.0	13.1	0.00	0.00
50	53	PL 3t 3/4"	0.1	-0.7	334.6	61.8	2738.2	1569.4	13.1	0.00	0.00
49	32	AS 3t 5/8"	0.1	-0.7	335.3	61.7	2738.3	1568.6	13.1	0.00	0.00
48	274	HR17-4 serial	4.0	88.0	336.0	61.6	2740.4	1568.0	15.7	0.00	0.00
47	32	AS 3t 5/8"	0.1	-0.7	248.0	57.6	2742.4	1656.0	13.8	0.00	0.00
46	53	PL 3t 3/4"	0.1	-0.7	248.7	57.6	2742.5	1655.3	13.8	0.00	0.00
45	32	AS 3t 5/8"	0.1	-0.7	249.4	57.5	2742.6	1654.6	13.8	0.00	0.00
44	274	HR17-4 serial	4.0	88.0	250.1	57.4	2744.6	1653.9	16.5	0.00	0.00



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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

No Current Static Solution – Parameter, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension [kg]	[%]	Stretch [m]	[%]
43	32	AS 3t 5/8"	0.1	-0.7	162.1	53.4	2746.6	1741.9	14.5	0.00	0.00
42	53	PL 3t 3/4"	0.1	-0.7	162.7	53.3	2746.7	1741.3	14.5	0.00	0.00
41	32	AS 3t 5/8"	0.1	-0.7	163.5	53.2	2746.8	1740.5	14.5	0.00	0.00
40	274	HR17-4 serial	4.0	88.0	164.1	53.2	2748.8	1739.9	17.4	0.00	0.00
39	32	AS 3t 5/8"	0.1	-0.7	76.1	49.2	2750.9	1827.9	15.2	0.00	0.00
38	53	PL 3t 3/4"	0.1	-0.7	76.8	49.1	2751.0	1827.2	15.2	0.00	0.00
37	32	AS 3t 5/8"	0.1	-0.7	77.5	49.0	2751.1	1826.5	15.2	0.00	0.00
36	274	HR17-4 serial	4.0	88.0	78.2	48.9	2753.1	1825.8	18.3	0.00	0.00
35	32	AS 3t 5/8"	0.1	-0.7	-9.8	44.9	2755.1	1913.8	15.9	0.00	0.00
34	53	PL 3t 3/4"	0.1	-0.7	-9.2	44.8	2755.2	1913.1	15.9	0.00	0.00
33	32	AS 3t 5/8"	0.1	-0.7	-8.4	44.7	2755.3	1912.4	15.9	0.00	0.00
32	274	HR17-4 serial	4.0	88.0	-7.8	44.7	2757.3	1911.7	19.1	0.00	0.00
31	32	AS 3t 5/8"	0.1	-0.7	-95.8	40.7	2759.4	1999.7	16.7	0.00	0.00
30	53	PL 3t 3/4"	0.1	-0.7	-95.1	40.6	2759.5	1999.1	16.7	0.00	0.00
29	32	AS 3t 5/8"	0.1	-0.7	-94.4	40.5	2759.5	1998.3	16.7	0.00	0.00
28	181	1/2" MR	5.0	-15.2	-93.7	40.4	2762.1	1997.7	20.0	0.00	0.00
27	32	AS 3t 5/8"	0.1	-0.7	-78.5	35.4	2764.6	1982.5	16.5	0.00	0.00
26	53	PL 3t 3/4"	0.1	-0.7	-77.8	35.4	2764.7	1981.8	16.5	0.00	0.00
25	33	AS 5t 3/4"	0.1	-1.1	-77.1	35.2	2764.8	1981.1	11.0	0.00	0.00
24	94	Swivel 5t	0.2	-5.3	-76.0	35.2	2764.9	1980.0	19.8	0.00	0.00
23	33	AS 5t 3/4"	0.1	-1.1	-70.7	34.9	2765.1	1974.6	11.0	0.00	0.00
22	53	PL 3t 3/4"	0.1	-0.7	-69.6	34.9	2765.2	1973.6	16.4	0.00	0.00
21	33	AS 5t 3/4"	0.1	-1.1	-68.9	34.8	2765.3	1972.8	11.0	0.00	0.00
20	478	Dual Release	1.0	-61.0	-67.8	34.7	2765.8	1971.8	19.7	0.00	0.00
19	480	1/2" dropchain	0.6	-6.8	-6.8	33.6	2766.7	1910.8	11.9	0.00	0.00
18	76	ML 17t 1-1/4"	0.2	-4.8	NaN	33.0	2767.1	1904.0	4.3	0.00	0.00
17	34	AS 6t 7/8"	0.1	-1.6	NaN	32.8	2767.3	1899.1	7.9	0.00	0.00



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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

No Current Static Solution – Parameter, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension [kg]	[%]	Stretch [m]	[%]
16	64	EL 6t 7/8"	0.1	-1.0	NaN	32.7	2767.4	1897.6	7.9	0.00	0.00
15	32	AS 3t 5/8"	0.1	-0.7	NaN	32.6	2767.5	1896.5	15.8	0.00	0.00
14	181	1/2" MR	5.0	-15.2	NaN	32.5	2770.0	1895.9	19.0	0.00	0.00
13	32	AS 3t 5/8"	0.1	-0.7	NaN	27.5	2772.5	1880.7	15.7	0.00	0.00
12	53	PL 3t 3/4"	0.1	-0.7	NaN	27.4	2772.6	1880.0	15.7	0.00	0.00
11	34	AS 6t 7/8"	0.1	-1.6	NaN	27.3	2772.7	1879.3	7.8	0.00	0.00
10	113	Nystron-1"	20.7	-2.0	NaN	27.2	2783.1	1877.7	11.2	0.67	3.35
9	491	Parachute	0.0	0.0	NaN	6.6	2793.4	1875.8	18.8	0.00	0.00
8	34	AS 6t 7/8"	0.1	-1.6	NaN	6.6	2793.5	1875.8	7.8	0.00	0.00
7	64	EL 6t 7/8"	0.1	-1.0	NaN	6.5	2793.6	1874.2	7.8	0.00	0.00
6	34	AS 6t 7/8"	0.1	-1.6	NaN	6.4	2793.7	1873.2	7.8	0.00	0.00
5	183	3/4" MR	5.0	-33.1	NaN	6.3	2796.2	1871.6	7.8	0.00	0.00
4	33	AS 5t 3/4"	0.1	-1.1	NaN	1.3	2798.8	1838.6	10.2	0.00	0.00
3	53	PL 3t 3/4"	0.1	-0.7	NaN	1.2	2798.9	1837.5	15.3	0.00	0.00
2	34	AS 6t 7/8"	0.1	-1.6	NaN	1.1	2799.0	1836.8	7.7	0.00	0.00
1	522	double MACE Anch	1.0	-2742.1	NaN	1.0	2800.0	1835.2	30.6	0.00	0.00

Max. 37.6% Static Tension at:

122	103	5/16" NILSPIN	245.9	-52.2	153.8	2301.2	621.7	1750.1	37.6	0.94	0.38
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Vertical anchor load : 1835 kg
 Wet MACE Anchor weight : 2742 kg
 Safe MACE Anchor weight : 2294 kg



Global Irminger MFM B 2014 Mooring Model Analysis

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By: P. Chua

05-Aug-2014

DCN: 3202-00012

REV: B

REF.DES. GI04FLMB

Source: 05-Aug-2014 14:26:44, ...Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.16 m/s, 2.3 kn

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
155	306	64" Sphere	100	1180.0	1.630	2.087	0.50	73.43	1253.4	12.5
154	17	U-Joint	0.3	-16.3	0.300	0.071	1.50	7.46	1244.6	7.8
153	141	1/2" EM chain	5.0	-35.0	0.200	3.142	0.09	20.32	1229.9	12.3
152	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.21	1227.7	7.7
151	103	5/16" NILSPIN	3.0	-0.6	0.010	0.090	0.05	0.30	1227.4	26.4
150	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1224.9	12.2
149	103	5/16" NILSPIN	20.0	-4.3	0.010	0.600	0.05	2.02	1222.7	26.3
148	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1220.2	12.2
147	103	5/16" NILSPIN	30.1	-6.4	0.010	0.899	0.05	3.03	1216.8	26.2
146	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1214.3	12.1
145	103	5/16" NILSPIN	40.1	-8.5	0.010	1.199	0.05	4.04	1209.8	26.0
144	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1207.3	12.1
143	103	5/16" NILSPIN	50.1	-10.6	0.010	1.499	0.05	5.05	1201.7	25.8
142	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1199.3	12.0
141	103	5/16" NILSPIN	70.2	-14.9	0.010	2.098	0.05	7.07	1191.4	25.6
140	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1188.9	11.9
139	103	5/16" NILSPIN	100.2	-21.3	0.010	2.997	0.05	10.10	1177.7	25.3
138	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.31	1175.2	11.8
137	103	5/16" NILSPIN	127.3	-27.1	0.010	3.807	0.05	12.83	1161.0	25.0
136	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.21	1158.8	7.2
135	15	coupler ec	0.2	-6.0	0.100	0.008	1.50	0.83	1153.7	7.2
133	479	Release Float	1.0	0.0	0.370	0.108	0.90	6.81	1160.5	11.6
131	15	coupler ec	0.2	-6.0	0.100	0.008	1.50	0.83	1155.3	7.2
130	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.21	1153.1	7.2
129	256	CF14-1000	0.0	13.0	0.300	0.071	0.30	1.49	1167.6	19.5
127	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.07	1.56	1167.0	25.1
126	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.07	1.56	1166.4	25.1
125	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.21	1164.3	7.3
124	326	FL62" 1500m ADC	2.8	750.0	1.550	1.887	0.50	66.39	1980.6	19.8
123	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.21	1978.5	12.4
122	103	5/16" NILSPIN	245.9	-52.2	0.010	7.349	0.04	22.33	1948.6	41.9
121	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1946.1	19.5
120	103	5/16" NILSPIN	250.9	-53.3	0.010	7.499	0.04	22.79	1915.7	41.2
119	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1913.2	19.1
118	103	5/16" NILSPIN	250.9	-53.3	0.010	7.498	0.04	22.78	1882.7	40.5
117	103	5/16" NILSPIN	250.9	-53.3	0.010	7.498	0.04	22.78	1852.2	39.8
116	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1849.7	18.5
115	103	5/16" NILSPIN	5.0	-1.1	0.010	0.150	0.04	0.46	1849.1	39.7
114	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.21	1846.9	11.5
113	300	Load Cage	1.5	-60.0	0.300	0.071	0.90	4.48	1791.4	17.9
112	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1791.1	14.9
111	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1790.7	14.9
110	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1790.3	14.9
109	181	1/2" MR	2.5	-7.6	0.020	0.157	0.10	1.14	1783.9	17.8
108	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1783.6	14.9
107	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1783.1	14.9



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Source: 05-Aug-2014 14:26:44, ...Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.16 m/s, 2.3 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
106	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1782.8	14.9
105	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	9.19	1880.0	18.8
104	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1879.7	15.7
103	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1879.2	15.7
102	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1878.9	15.7
101	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	9.19	1976.1	19.8
100	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1975.8	16.5
99	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1975.3	16.5
98	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1975.0	16.5
96	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1974.7	16.5
95	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1974.2	16.5
94	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1973.9	16.4
93	103	5/16" NILSPIN	100.4	-21.3	0.010	2.999	0.06	12.32	1964.9	42.2
92	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1964.6	16.4
91	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1964.2	16.4
90	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1963.9	16.4
89	103	5/16" NILSPIN	100.4	-21.3	0.010	2.999	0.06	12.32	1954.9	42.0
88	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1954.6	16.3
87	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1954.1	16.3
86	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1953.8	16.3
85	103	5/16" NILSPIN	79.3	-16.8	0.010	2.369	0.04	7.20	1944.2	41.8
84	347	VELPT-B	0.0	-6.0	0.084	0.006	0.90	0.35	1938.5	19.4
83	103	5/16" NILSPIN	1.0	-0.2	0.010	0.030	0.04	0.09	1938.4	41.7
82	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1935.9	19.4
81	103	5/16" NILSPIN	300.0	-63.7	0.010	8.967	0.04	27.25	1899.5	40.8
80	347	VELPT-B	0.0	-6.0	0.084	0.006	0.90	0.35	1893.8	18.9
79	103	5/16" NILSPIN	1.0	-0.2	0.010	0.030	0.04	0.09	1893.7	40.7
78	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1891.2	18.9
77	103	5/16" NILSPIN	300.0	-63.7	0.010	8.966	0.04	27.25	1854.8	39.9
76	347	VELPT-B	0.0	-6.0	0.084	0.006	0.90	0.35	1849.1	18.5
75	103	5/16" NILSPIN	1.0	-0.2	0.010	0.030	0.04	0.09	1849.0	39.7
74	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1846.5	18.5
73	103	5/16" NILSPIN	299.9	-63.7	0.010	8.966	0.04	27.24	1810.1	38.9
72	347	VELPT-B	0.0	-6.0	0.084	0.006	0.90	0.35	1804.4	18.0
71	103	5/16" NILSPIN	1.0	-0.2	0.010	0.030	0.04	0.09	1804.3	38.8
70	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.31	1801.8	18.0
69	103	5/16" NILSPIN	20.1	-4.3	0.010	0.600	0.04	1.82	1799.4	38.7
68	491	Parachute	0.0	0.0	1.382	1.500	1.33	140.40	1939.8	19.4
67	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1939.4	16.2
66	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1939.0	16.2
65	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1938.7	16.2
64	181	1/2" MR	5.0	-15.2	0.020	0.314	0.09	2.03	1925.5	19.3
63	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1925.2	16.0
62	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	1924.7	16.0
61	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	1924.4	16.0
60	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2018.4	20.2



Global Irminger MFM B 2014 Mooring Model Analysis

designed for 2800m Depth



By: P. Chua

05-Aug-2014

DCN: 3202-00012

REV: B

REF.DES. GI04FLMB

Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.16 m/s, 2.3 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
59	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2018.1	16.8
58	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2017.7	16.8
57	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2017.4	16.8
56	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2111.4	21.1
55	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2111.1	17.6
54	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2110.6	17.6
53	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2110.3	17.6
52	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2204.3	22.0
51	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2204.0	18.4
50	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2203.6	18.4
49	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2203.3	18.4
48	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2297.3	23.0
47	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2297.0	19.1
46	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2296.5	19.1
45	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2296.2	19.1
44	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2390.2	23.9
43	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2389.9	19.9
42	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2389.5	19.9
41	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2389.1	19.9
40	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2483.2	24.8
39	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2482.8	20.7
38	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2482.4	20.7
37	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2482.1	20.7
36	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2576.1	25.8
35	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2575.8	21.5
34	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2575.3	21.5
33	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2575.0	21.5
32	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.44	6.03	2669.1	26.7
31	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2668.7	22.2
30	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2668.3	22.2
29	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2668.0	22.2
28	181	1/2" MR	5.0	-15.2	0.020	0.314	0.09	2.03	2654.8	26.5
27	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2654.5	22.1
26	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2654.0	22.1
25	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.53	2653.5	14.7
24	94	Swivel 5t	0.2	-5.3	0.100	0.008	1.20	0.66	2648.8	26.5
23	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.53	2648.3	14.7
22	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2647.8	22.1
21	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.53	2647.3	14.7
20	478	Dual Release	1.0	-61.0	0.300	0.071	0.90	4.48	2590.8	25.9
19	480	1/2" dropchain	0.6	-6.8	0.040	0.001	1.00	0.09	2584.1	16.2
18	76	ML 17t 1-1/4"	0.2	-4.8	0.085	0.006	1.50	0.60	2579.8	5.9
17	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.64	2578.9	10.7
16	64	EL 6t 7/8"	0.1	-1.0	0.066	0.003	1.50	0.36	2578.2	10.7
15	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2577.9	21.5
14	181	1/2" MR	5.0	-15.2	0.020	0.314	0.09	2.03	2564.7	25.6



Global Irminger MFM B 2014 Mooring Model Analysis

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By: P. Chua

05-Aug-2014

DCN: 3202-00012

REV: B

REF.DES. GI04FLMB

Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.16 m/s, 2.3 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
13	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.34	2564.4	21.4
12	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2564.0	21.4
11	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.64	2563.1	10.7
10	113	Nystron-1"	20.7	-2.0	0.026	1.661	0.07	8.62	2569.7	15.3
9	491	Parachute	0.0	0.0	1.382	1.500	1.33	140.40	2710.1	27.1
8	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.64	2709.2	11.3
7	64	EL 6t 7/8"	0.1	-1.0	0.066	0.003	1.50	0.36	2708.5	11.3
6	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.64	2707.6	11.3
5	183	3/4" MR	5.0	-33.1	0.030	0.471	0.09	3.05	2677.6	11.2
4	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.53	2677.1	14.9
3	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.30	2676.6	22.3
2	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.64	2675.7	11.1
1	522	double MACE Anch	1.0	-2742.1	1.000	0.785	1.20	66.33	-0.0	-0.0

Max. 42.2% Launch Tension at:

93	103	5/16" NILSPIN	100.4	-21.3	0.010	2.999	0.06	12.32	1964.9	42.2
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Mass dry / wet w/o Anchor: 3763 kg, -1835 kg
 Drag / Friction w/o Anchor: 840.5 kg, 625.8 kg/[m/s]²
 Dry/Wet MACE Anchor weight: 3170 kg, 2742 kg
 Steady State AnchorSpeed : 1.16 m/s, 2.3 kn



Global Irminger MFM B 2014 Mooring Model Analysis

designed for 2800m Depth

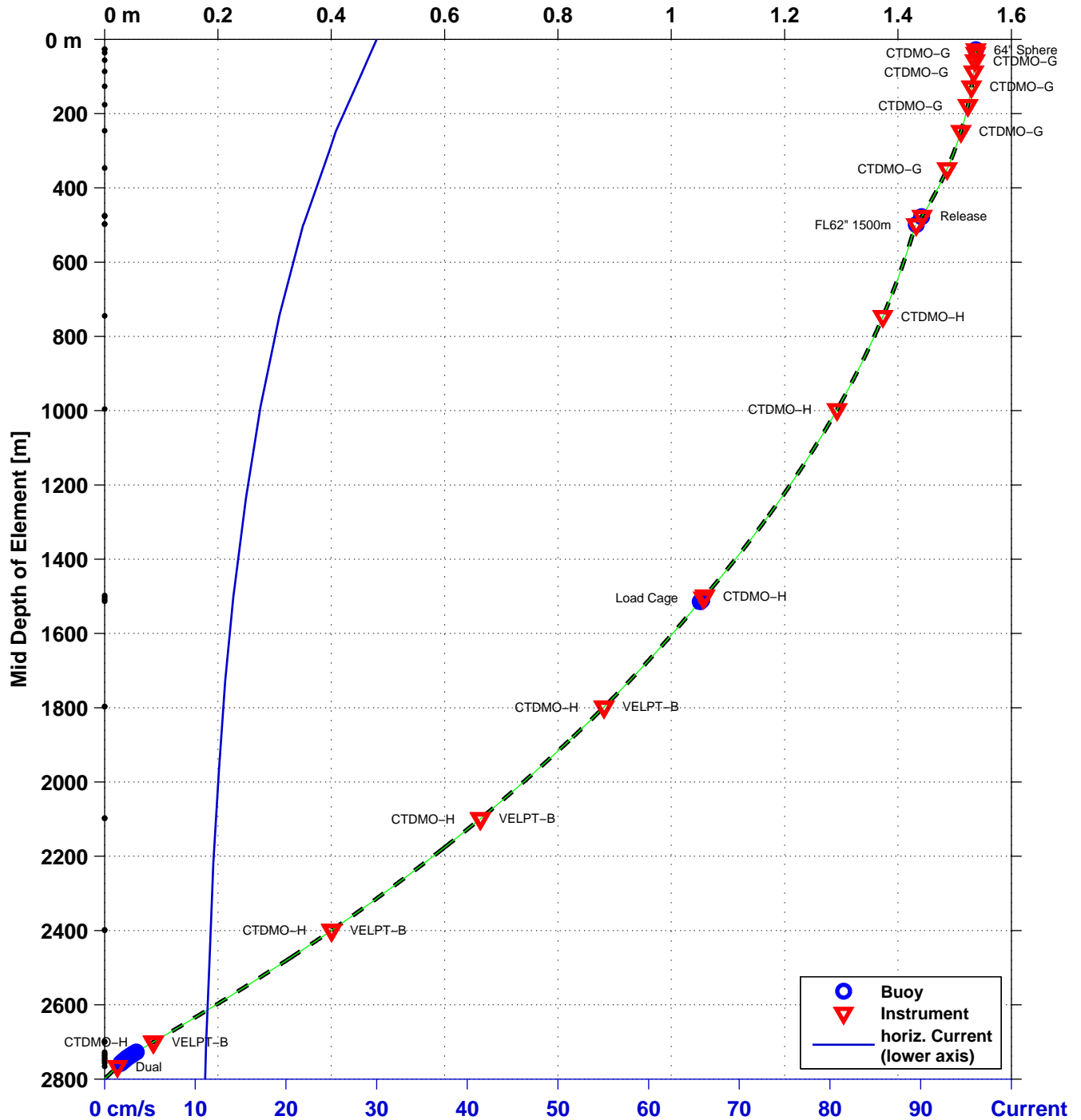


By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

Event #001 – Subduction [m]: max. 2m, Top at 28m
 Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf



Event #001: Vert / Horiz anchor load: 1834 kg / 70 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2294 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



Global Irminger MFM B 2014 Mooring Model Analysis

designed for 2800m Depth

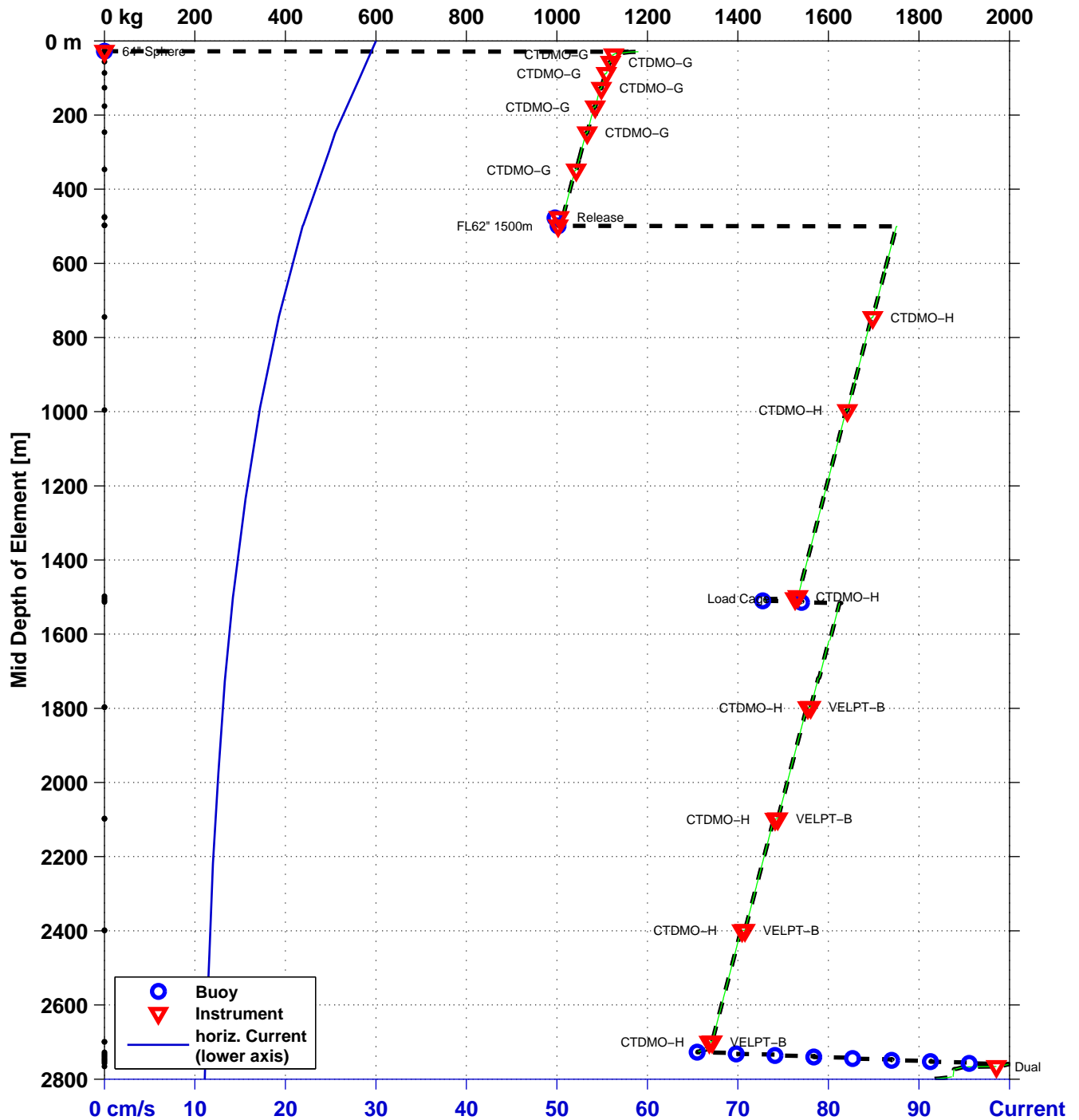


By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg
 Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

Event #001 – Tension [kg]

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf



Event #001: Vert / Horiz anchor load: 1834 kg / 70 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2294 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Result

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
155	306	64" Sphere 100	2.3	1180.0	2.087	0.50	0.30	4.7	0.0	0.0	0.00	0.00	26.9	1.5	88.8	0.2
154	17	U-Joint	0.3	-16.3	0.090	1.50	0.29	0.6	1180.0	7.4	0.00	0.00	29.3	1.5	88.8	0.2
153	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.29	5.9	1163.7	11.6	0.00	0.00	30.0	1.5	88.8	0.5
152	13	ind. term	0.1	-2.4	0.005	1.50	0.29	0.0	1128.7	7.1	0.00	0.00	34.5	1.5	88.7	0.6
151	103	5/16" NILSPIN	3.0	-0.6	0.029	1.10	0.29	0.1	1126.3	24.2	0.01	0.25	35.1	1.5	88.7	0.6
150	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.29	0.3	1125.7	11.3	0.00	0.00	37.6	1.5	88.7	0.6
149	103	5/16" NILSPIN	20.0	-4.3	0.191	1.10	0.29	0.9	1122.9	24.1	0.05	0.25	38.1	1.5	88.7	0.6
148	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.29	0.3	1118.6	11.2	0.00	0.00	57.6	1.5	88.5	0.6
147	103	5/16" NILSPIN	30.1	-6.4	0.286	1.10	0.29	1.4	1115.8	24.0	0.07	0.25	58.1	1.5	88.5	0.7
146	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.28	0.2	1109.4	11.1	0.00	0.00	87.7	1.5	88.1	0.7
145	103	5/16" NILSPIN	40.1	-8.5	0.381	1.10	0.28	1.7	1106.6	23.8	0.10	0.24	88.2	1.5	88.1	0.8
144	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.28	0.2	1098.1	11.0	0.00	0.00	127.8	1.5	87.5	0.8
143	103	5/16" NILSPIN	50.1	-10.6	0.476	1.10	0.27	2.0	1095.3	23.5	0.12	0.24	128.3	1.5	87.5	1.0
142	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.27	0.2	1084.7	10.8	0.00	0.00	177.9	1.5	86.7	1.0
141	103	5/16" NILSPIN	70.2	-14.9	0.667	1.10	0.26	2.6	1081.9	23.3	0.17	0.24	178.4	1.5	86.7	1.1
140	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.25	0.2	1067.0	10.7	0.00	0.00	248.1	1.5	85.4	1.1
139	103	5/16" NILSPIN	100.2	-21.3	0.953	1.10	0.25	3.4	1064.2	22.9	0.23	0.23	248.6	1.5	85.4	1.4
138	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.24	0.2	1042.9	10.4	0.00	0.00	348.3	1.5	83.2	1.4
137	103	5/16" NILSPIN	127.3	-27.1	1.210	1.10	0.23	3.7	1040.1	22.4	0.29	0.23	348.8	1.5	83.2	1.6
136	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	1013.0	6.3	0.00	0.00	475.6	1.4	79.9	1.6
135	15	coupler ec	0.2	-6.0	0.020	1.50	0.22	0.1	1010.6	6.3	0.00	0.00	475.7	1.4	79.9	1.6
133	479	Release Float	1.0	0.0	0.592	1.20	0.22	1.9	1004.6	10.0	0.00	0.00	476.3	1.4	79.9	1.7
131	15	coupler ec	0.2	-6.0	0.020	1.50	0.22	0.1	1004.6	6.3	0.00	0.00	476.9	1.4	79.8	1.8
130	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	998.6	6.2	0.00	0.00	477.1	1.4	79.8	1.8
129	256	CF14-1000	0.0	13.0	0.225	0.50	0.22	0.3	996.2	16.6	0.00	0.00	477.1	1.4	79.8	1.8
127	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.22	0.3	1009.2	21.7	0.02	0.22	477.6	1.4	79.8	1.8
126	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.22	0.3	1007.1	21.6	0.02	0.22	487.7	1.4	79.5	1.8
125	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	1005.0	6.3	0.00	0.00	497.2	1.4	79.2	1.8
124	326	FL62" 1500m ADC	2.8	750.0	1.887	0.50	0.22	2.4	1002.6	10.0	0.00	0.00	498.7	1.4	79.2	1.8



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	Stretch [%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
123	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	1752.4	11.0	500.1	1.4	79.1	1.1
122	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.21	5.7	1750.0	37.6	500.7	1.4	79.1	1.3
121	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.19	0.1	1697.8	17.0	746.1	1.4	73.8	1.3
120	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.18	4.6	1695.0	36.4	746.6	1.4	73.8	1.6
119	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.17	0.1	1641.8	16.4	996.9	1.3	67.5	1.6
118	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.16	3.7	1639.0	35.2	997.4	1.3	67.5	1.7
117	103	5/16" NILSPIN	250.9	-53.3	2.383	1.10	0.15	3.0	1585.8	34.1	1248.2	1.2	60.2	1.9
116	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.14	0.1	1532.5	15.3	1498.4	1.1	52.2	1.9
115	103	5/16" NILSPIN	5.0	-1.1	0.048	1.10	0.14	0.1	1529.7	32.9	1498.9	1.1	52.2	1.9
114	13	ind. term	0.1	-2.4	0.005	1.50	0.14	0.0	1528.7	9.6	1503.5	1.1	52.0	1.9
113	300	Load Cage	1.5	-60.0	0.300	1.30	0.14	0.4	1526.3	15.3	1504.3	1.1	52.0	1.9
112	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1466.3	12.2	1505.1	1.1	52.0	2.0
111	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.14	0.0	1465.7	12.2	1505.2	1.1	52.0	2.0
110	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1464.9	12.2	1505.3	1.1	52.0	2.0
109	181	1/2" MR	2.5	-7.6	0.050	1.60	0.14	0.1	1464.3	14.6	1505.7	1.1	52.0	2.0
108	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1456.7	12.1	1507.8	1.1	51.9	2.0
107	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.14	0.0	1456.0	12.1	1507.9	1.1	51.9	2.0
106	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1455.3	12.1	1508.0	1.1	51.9	2.0
105	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.14	0.6	1454.6	14.5	1510.0	1.1	51.9	2.0
104	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1542.5	12.9	1512.1	1.1	51.7	2.0
103	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.14	0.0	1541.9	12.8	1512.2	1.1	51.7	2.0
102	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1541.1	12.8	1512.2	1.1	51.7	2.0
101	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.14	0.6	1540.5	15.4	1514.3	1.1	51.7	2.0
100	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1628.4	13.6	1516.3	1.0	51.6	1.9
99	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.14	0.0	1627.8	13.6	1516.4	1.0	51.6	1.9
98	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1627.0	13.6	1516.5	1.0	51.6	1.9
96	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1626.4	13.6	1516.5	1.0	51.6	1.9
95	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.14	0.0	1625.7	13.5	1516.6	1.0	51.6	1.9
94	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1625.0	13.5	1516.7	1.0	51.6	1.9



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
93	103	5/16" NILSPIN	100.4	-21.3	0.953	1.10	0.14	1.1	1624.3	34.9	0.36	0.36	1517.3	1.0	51.6	1.9
92	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1603.0	13.4	0.00	0.00	1617.1	1.0	48.2	1.9
91	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.14	0.0	1602.4	13.4	0.00	0.00	1617.2	1.0	48.2	1.9
90	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.14	0.0	1601.6	13.3	0.00	0.00	1617.3	1.0	48.2	2.0
89	103	5/16" NILSPIN	100.4	-21.3	0.953	1.10	0.14	1.0	1601.0	34.4	0.35	0.35	1617.8	1.0	48.2	2.0
88	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1579.7	13.2	0.00	0.00	1717.6	0.9	44.7	2.0
87	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.13	0.0	1579.0	13.2	0.00	0.00	1717.7	0.9	44.7	2.0
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1578.3	13.2	0.00	0.00	1717.8	0.9	44.7	2.0
85	103	5/16" NILSPIN	79.3	-16.8	0.753	1.10	0.13	0.8	1577.6	33.9	0.27	0.35	1718.3	0.9	44.7	2.1
84	347	VELPT-B	0.0	-6.0	0.063	1.20	0.13	0.1	1560.8	15.6	0.00	0.00	1797.1	0.9	41.9	2.1
83	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.13	0.0	1554.8	33.4	0.00	0.34	1797.6	0.9	41.9	2.1
82	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.13	0.1	1554.6	15.5	0.00	0.00	1798.1	0.9	41.9	2.1
81	103	5/16" NILSPIN	300.0	-63.7	2.849	1.10	0.13	2.7	1551.8	33.4	1.01	0.34	1798.6	0.9	41.9	2.3
80	347	VELPT-B	0.0	-6.0	0.063	1.20	0.12	0.1	1488.2	14.9	0.00	0.00	2097.9	0.7	30.4	2.3
79	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.12	0.0	1482.2	31.9	0.00	0.33	2098.4	0.7	30.4	2.3
78	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.12	0.0	1481.9	14.8	0.00	0.00	2098.9	0.7	30.4	2.3
77	103	5/16" NILSPIN	300.0	-63.7	2.849	1.10	0.12	2.4	1479.1	31.8	0.96	0.32	2099.4	0.7	30.4	2.5
76	347	VELPT-B	0.0	-6.0	0.063	1.20	0.12	0.1	1415.5	14.2	0.00	0.00	2398.6	0.4	17.9	2.5
75	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.12	0.0	1409.5	30.3	0.00	0.31	2399.1	0.4	17.9	2.5
74	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.12	0.0	1409.3	14.1	0.00	0.00	2399.6	0.4	17.8	2.5
73	103	5/16" NILSPIN	299.9	-63.7	2.849	1.10	0.11	2.2	1406.5	30.2	0.91	0.30	2400.1	0.4	17.8	2.7
72	347	VELPT-B	0.0	-6.0	0.063	1.20	0.11	0.1	1342.9	13.4	0.00	0.00	2699.2	0.1	4.1	2.7
71	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.11	0.0	1336.9	28.7	0.00	0.30	2699.7	0.1	4.1	2.7
70	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.11	0.0	1336.7	13.4	0.00	0.00	2700.2	0.1	4.1	2.7
69	103	5/16" NILSPIN	20.1	-4.3	0.191	1.10	0.11	0.1	1333.9	28.7	0.06	0.30	2700.7	0.1	4.1	2.8
68	491	Parachute	0.0	0.0	1.500	0.50	0.11	0.5	1329.6	13.3	0.00	0.00	2720.2	0.1	3.1	2.8
67	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1329.7	11.1	0.00	0.00	2720.2	0.1	3.1	2.8
66	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1329.0	11.1	0.00	0.00	2720.3	0.1	3.1	2.8
65	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1328.3	11.1	0.00	0.00	2720.4	0.1	3.1	2.8



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
64	181	1/2" MR	5.0	-15.2	0.100	1.60	0.11	0.1	1327.6	13.3	0.00	0.00	2720.9	0.1	3.1	2.8
63	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1312.4	10.9	0.00	0.00	2725.5	0.1	2.9	2.8
62	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1311.8	10.9	0.00	0.00	2725.6	0.1	2.9	2.8
61	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1311.0	10.9	0.00	0.00	2725.6	0.1	2.8	2.8
60	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1310.4	13.1	0.00	0.00	2727.7	0.1	2.8	2.8
59	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1398.3	11.7	0.00	0.00	2729.7	0.1	2.6	2.7
58	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1397.6	11.6	0.00	0.00	2729.8	0.1	2.6	2.7
57	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1396.9	11.6	0.00	0.00	2729.9	0.1	2.6	2.7
56	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1396.2	14.0	0.00	0.00	2731.9	0.1	2.6	2.7
55	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1484.1	12.4	0.00	0.00	2733.9	0.0	2.4	2.5
54	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1483.4	12.4	0.00	0.00	2734.0	0.0	2.4	2.5
53	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1482.7	12.4	0.00	0.00	2734.1	0.0	2.4	2.5
52	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1482.0	14.8	0.00	0.00	2736.2	0.0	2.4	2.5
51	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1570.0	13.1	0.00	0.00	2738.2	0.0	2.3	2.4
50	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1569.3	13.1	0.00	0.00	2738.3	0.0	2.3	2.4
49	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1568.6	13.1	0.00	0.00	2738.4	0.0	2.3	2.4
48	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1567.9	15.7	0.00	0.00	2740.4	0.0	2.3	2.4
47	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1655.8	13.8	0.00	0.00	2742.4	0.0	2.1	2.3
46	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1655.2	13.8	0.00	0.00	2742.5	0.0	2.1	2.3
45	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1654.4	13.8	0.00	0.00	2742.6	0.0	2.1	2.3
44	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1653.8	16.5	0.00	0.00	2744.6	0.0	2.1	2.3
43	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1741.7	14.5	0.00	0.00	2746.7	0.0	1.9	2.2
42	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1741.0	14.5	0.00	0.00	2746.8	0.0	1.9	2.2
41	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1740.3	14.5	0.00	0.00	2746.8	0.0	1.9	2.2
40	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1739.6	17.4	0.00	0.00	2748.9	0.0	1.9	2.2
39	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1827.6	15.2	0.00	0.00	2750.9	0.0	1.7	2.1
38	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1826.9	15.2	0.00	0.00	2751.0	0.0	1.7	2.1
37	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1826.2	15.2	0.00	0.00	2751.1	0.0	1.7	2.1
36	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1825.5	18.3	0.00	0.00	2753.1	0.0	1.7	2.1



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSealgi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
35	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1913.5	15.9	0.00	0.00	2755.1	0.0	1.6	2.0
34	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1912.8	15.9	0.00	0.00	2755.2	0.0	1.6	2.0
33	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1912.1	15.9	0.00	0.00	2755.3	0.0	1.6	2.0
32	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1911.4	19.1	0.00	0.00	2757.4	0.0	1.6	2.0
31	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1999.3	16.7	0.00	0.00	2759.4	0.0	1.4	2.0
30	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1998.7	16.7	0.00	0.00	2759.5	0.0	1.4	2.0
29	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1997.9	16.6	0.00	0.00	2759.6	0.0	1.4	2.0
28	181	1/2" MR	5.0	-15.2	0.100	1.60	0.11	0.1	1997.3	20.0	0.00	0.00	2760.1	0.0	1.4	2.0
27	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1982.1	16.5	0.00	0.00	2764.6	0.0	1.3	2.0
26	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1981.4	16.5	0.00	0.00	2764.7	0.0	1.3	2.0
25	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	1980.7	11.0	0.00	0.00	2764.8	0.0	1.3	2.0
24	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.11	0.0	1979.6	19.8	0.00	0.00	2765.0	0.0	1.3	2.0
23	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	1974.3	11.0	0.00	0.00	2765.1	0.0	1.2	2.0
22	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1973.2	16.4	0.00	0.00	2765.2	0.0	1.2	2.0
21	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	1972.5	11.0	0.00	0.00	2765.3	0.0	1.2	2.0
20	478	Dual Release	1.0	-61.0	0.288	1.20	0.11	0.2	1971.4	19.7	0.00	0.00	2765.9	0.0	1.2	2.0
19	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.11	0.0	1910.4	11.9	0.00	0.00	2766.7	0.0	1.2	2.1
18	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.11	0.0	1903.6	4.3	0.00	0.00	2767.1	0.0	1.2	2.1
17	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1898.8	7.9	0.00	0.00	2767.3	0.0	1.2	2.1
16	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.11	0.0	1897.2	7.9	0.00	0.00	2767.4	0.0	1.2	2.1
15	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1896.2	15.8	0.00	0.00	2767.5	0.0	1.2	2.1
14	181	1/2" MR	5.0	-15.2	0.100	1.60	0.11	0.1	1895.6	19.0	0.00	0.00	2768.0	0.0	1.2	2.1
13	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1880.4	15.7	0.00	0.00	2772.5	0.0	1.0	2.1
12	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1879.7	15.7	0.00	0.00	2772.6	0.0	1.0	2.1
11	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1879.0	7.8	0.00	0.00	2772.7	0.0	1.0	2.1
10	113	Nystron-1"	20.7	-2.0	0.520	1.30	0.11	0.4	1877.4	11.2	0.67	3.35	2773.3	0.0	1.0	2.1
9	491	Parachute	0.0	0.0	1.500	0.50	0.11	0.5	1875.4	18.8	0.00	0.00	2793.4	0.0	0.2	2.1
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1875.5	7.8	0.00	0.00	2793.5	0.0	0.2	2.1
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.11	0.0	1873.9	7.8	0.00	0.00	2793.6	0.0	0.2	2.1



Global Irminger MFM B 2014 Mooring Model Analysis
designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1872.9	7.8	0.00	0.00	2793.7	0.0	0.2	2.1
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.11	0.2	1871.3	7.8	0.00	0.00	2794.2	0.0	0.2	2.2
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	1838.3	10.2	0.00	0.00	2798.8	0.0	0.0	2.2
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1837.2	15.3	0.00	0.00	2798.9	0.0	0.0	2.2
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1836.5	7.7	0.00	0.00	2799.0	0.0	0.0	2.2
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.11	0.9	1834.9	30.6	0.00	0.00	2800.0	0.0	0.0	0.0

Max. 37.6% Static Tension at:																
122	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.21	5.7	1750.0	37.6	0.94	0.38	500.7	1.4	79.1	1.3

Vert/Horiz Anchor Load : 1834 kg / 70 kg
 Wet MACE Anchor Weight : 2742 kg
 Safe MACE Anchor Weight : 2294 kg



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg
Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Parameter

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
155	306	64" Sphere	2.087	2.087	2.087	0.50	0.50	0.50	0.30	4.7	0.0	0.0	0.0	1180.0	0.0	0.0	0.0	0.2
154	17	U-Joint	0.090	0.090	0.000	1.50	1.50	1.50	0.29	0.6	0.0	0.0	-0.0	-16.3	4.7	0.0	1180.0	0.2
153	141	1/2" EM chai	1.000	1.000	0.007	1.30	1.30	1.00	0.29	5.9	0.0	0.0	-0.0	-35.0	7.7	0.0	1149.7	0.5
152	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.29	0.0	0.0	0.0	-0.0	-2.4	11.2	0.0	1128.7	0.6
151	103	5/16" NILSPI	0.029	0.029	0.000	1.10	1.10	0.00	0.29	0.1	0.0	0.0	-0.0	-0.6	11.3	0.0	1126.0	0.6
150	374	CTDMO-G P100	0.042	0.042	0.000	1.40	1.40	1.00	0.29	0.3	0.0	0.0	-0.0	-2.8	11.4	0.0	1125.6	0.6
149	103	5/16" NILSPI	0.191	0.191	0.002	1.10	1.10	0.00	0.29	0.9	0.0	0.0	-0.0	-4.3	12.1	0.0	1120.8	0.6
148	374	CTDMO-G P100	0.042	0.042	0.000	1.40	1.40	1.00	0.29	0.3	0.0	0.0	-0.0	-2.8	12.6	0.0	1118.5	0.6
147	103	5/16" NILSPI	0.286	0.286	0.003	1.10	1.10	0.00	0.29	1.4	0.0	0.0	-0.0	-6.4	13.5	0.0	1112.6	0.7
146	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.28	0.2	0.0	0.0	-0.0	-2.8	14.2	0.0	1109.3	0.7
145	103	5/16" NILSPI	0.381	0.381	0.005	1.10	1.10	0.00	0.28	1.7	0.0	0.0	-0.0	-8.5	15.3	0.0	1102.4	0.8
144	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.28	0.2	0.0	0.0	-0.0	-2.8	16.2	0.0	1098.0	0.8
143	103	5/16" NILSPI	0.476	0.476	0.008	1.10	1.10	0.00	0.27	2.0	0.0	0.0	-0.0	-10.7	17.5	0.0	1090.0	1.0
142	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.27	0.2	0.0	0.0	-0.0	-2.8	18.5	0.0	1084.5	1.0
141	103	5/16" NILSPI	0.667	0.667	0.012	1.10	1.10	0.00	0.26	2.6	0.0	0.0	-0.0	-14.9	20.0	0.0	1074.3	1.1
140	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.25	0.2	0.0	0.0	-0.0	-2.8	21.3	0.0	1066.7	1.1
139	103	5/16" NILSPI	0.953	0.953	0.021	1.10	1.10	0.00	0.25	3.4	0.0	0.0	-0.1	-21.3	23.2	0.0	1053.4	1.4
138	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.24	0.2	0.0	0.0	-0.0	-2.8	24.9	0.0	1042.6	1.4
137	103	5/16" NILSPI	1.210	1.210	0.032	1.10	1.10	0.00	0.23	3.7	0.0	0.0	-0.1	-27.1	27.0	0.0	1026.3	1.6
136	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.22	0.0	0.0	0.0	-0.0	-2.4	28.8	0.0	1012.6	1.6
135	15	coupler ec	0.020	0.020	0.001	1.50	1.50	1.50	0.22	0.1	0.0	0.0	-0.0	-6.0	28.9	0.0	1010.2	1.6
133	479	Release Floa	0.592	0.592	0.017	1.20	1.20	0.90	0.22	1.9	0.0	0.0	-0.1	0.0	28.9	0.0	1004.2	1.7
131	15	coupler ec	0.020	0.020	0.001	1.50	1.50	1.50	0.22	0.1	0.0	0.0	-0.0	-6.0	30.8	0.0	1004.2	1.8
130	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.22	0.0	0.0	0.0	-0.0	-2.4	30.9	0.0	998.1	1.8
129	256	CF14-1000	0.225	0.225	0.007	0.50	0.50	0.40	0.22	0.3	0.0	0.0	-0.0	13.0	30.9	0.0	995.7	1.8
127	103	5/16" NILSPI	0.095	0.095	0.003	1.10	1.10	0.00	0.22	0.3	0.0	0.0	-0.0	-2.1	31.3	0.0	1007.8	1.8
126	103	5/16" NILSPI	0.095	0.095	0.003	1.10	1.10	0.00	0.22	0.3	0.0	0.0	-0.0	-2.1	31.6	0.0	1005.6	1.8
125	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.22	0.0	0.0	0.0	-0.0	-2.4	31.7	0.0	1004.5	1.8
124	326	FL62" 1500m	1.887	1.887	1.887	0.50	0.50	0.50	0.22	2.4	0.0	0.0	0.0	750.0	31.7	0.0	1002.1	1.8



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
123	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.22	0.0	0.0	0.0	-0.0	-2.4	34.1	0.0	1752.1	1.1
122	103	5/16" NILSPI	2.334	2.335	0.050	1.10	1.10	0.00	0.21	5.7	0.0	0.0	-0.1	-52.2	37.1	0.0	1723.6	1.3
121	375	CTDMO-H P350	0.042	0.042	0.001	1.40	1.40	1.00	0.19	0.1	0.0	0.0	-0.0	-2.8	39.8	0.0	1697.4	1.3
120	103	5/16" NILSPI	2.382	2.382	0.060	1.10	1.10	0.00	0.18	4.6	0.0	0.0	-0.1	-53.3	42.3	0.0	1668.0	1.6
119	375	CTDMO-H P350	0.042	0.042	0.001	1.40	1.40	1.00	0.17	0.1	0.0	0.0	-0.0	-2.8	44.5	0.0	1641.2	1.6
118	103	5/16" NILSPI	2.382	2.382	0.069	1.10	1.10	0.00	0.16	3.7	0.0	0.0	-0.1	-53.3	46.5	0.0	1611.8	1.7
117	103	5/16" NILSPI	2.381	2.383	0.076	1.10	1.10	0.00	0.15	3.0	0.0	0.0	-0.1	-53.3	49.8	0.0	1558.5	1.9
116	375	CTDMO-H P350	0.042	0.042	0.001	1.40	1.40	1.00	0.14	0.1	0.0	0.0	-0.0	-2.8	51.3	0.0	1531.7	1.9
115	103	5/16" NILSPI	0.048	0.048	0.002	1.10	1.10	0.00	0.14	0.1	0.0	0.0	-0.0	-1.1	51.4	0.0	1528.5	1.9
114	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-2.4	51.5	0.0	1527.8	1.9
113	300	Load Cage	0.300	0.300	0.010	1.30	1.30	0.90	0.14	0.4	0.0	0.0	-0.0	-60.0	51.5	0.0	1525.4	1.9
112	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	51.9	0.0	1465.4	2.0
111	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	51.9	0.0	1464.7	2.0
110	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	51.9	0.0	1464.0	2.0
109	181	1/2" MR	0.050	0.050	0.002	1.60	1.60	1.00	0.14	0.1	0.0	0.0	-0.0	-7.6	51.9	0.0	1460.8	2.0
108	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	52.0	0.0	1455.7	2.0
107	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	52.0	0.0	1455.1	2.0
106	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	52.0	0.0	1454.3	2.0
105	274	HR17-4 seria	0.999	1.000	0.036	0.60	0.60	1.06	0.14	0.6	0.0	0.0	-0.0	88.0	52.0	0.0	1453.7	2.0
104	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	52.7	0.0	1541.6	2.0
103	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	52.7	0.0	1541.0	2.0
102	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	52.7	0.0	1540.2	2.0
101	274	HR17-4 seria	0.999	1.000	0.034	0.60	0.60	1.06	0.14	0.6	0.0	0.0	-0.0	88.0	52.7	0.0	1539.6	2.0
100	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	53.3	0.0	1627.6	1.9
99	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	53.4	0.0	1626.9	1.9
98	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	53.4	0.0	1626.2	1.9
96	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	53.4	0.0	1625.5	1.9
95	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	53.4	0.0	1624.8	1.9
94	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	53.4	0.0	1624.1	1.9



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
93	103	5/16" NILSPI	0.952	0.953	0.032	1.10	1.10	0.00	0.14	1.1	0.0	0.0	-0.0	-21.3	53.9	0.0	1612.9	1.9
92	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	54.5	0.0	1602.1	1.9
91	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	54.5	0.0	1601.4	1.9
90	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.14	0.0	0.0	0.0	-0.0	-0.7	54.5	0.0	1600.7	2.0
89	103	5/16" NILSPI	0.952	0.953	0.033	1.10	1.10	0.00	0.14	1.0	0.0	0.0	-0.0	-21.3	55.0	0.0	1589.5	2.0
88	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.13	0.0	0.0	0.0	-0.0	-0.7	55.5	0.0	1578.7	2.0
87	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.13	0.0	0.0	0.0	-0.0	-0.7	55.5	0.0	1578.0	2.0
86	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.13	0.0	0.0	0.0	-0.0	-0.7	55.6	0.0	1577.3	2.0
85	103	5/16" NILSPI	0.752	0.753	0.027	1.10	1.10	0.00	0.13	0.8	0.0	0.0	-0.0	-16.8	55.9	0.0	1568.3	2.1
84	347	VELPT-B	0.063	0.063	0.002	1.20	1.20	0.90	0.13	0.1	0.0	0.0	-0.0	-6.0	56.3	0.0	1559.8	2.1
83	103	5/16" NILSPI	0.010	0.010	0.000	1.10	1.10	0.00	0.13	0.0	0.0	0.0	-0.0	-0.2	56.4	0.0	1553.8	2.1
82	375	CTDMO-H P350	0.042	0.042	0.002	1.40	1.40	1.00	0.13	0.1	0.0	0.0	-0.0	-2.8	56.4	0.0	1553.6	2.1
81	103	5/16" NILSPI	2.847	2.849	0.108	1.10	1.10	0.00	0.13	2.7	0.0	0.0	-0.1	-63.7	57.8	0.0	1519.0	2.3
80	347	VELPT-B	0.063	0.063	0.003	1.20	1.20	0.90	0.12	0.1	0.0	0.0	-0.0	-6.0	59.1	0.0	1487.0	2.3
79	103	5/16" NILSPI	0.010	0.010	0.000	1.10	1.10	0.00	0.12	0.0	0.0	0.0	-0.0	-0.2	59.2	0.0	1481.0	2.3
78	375	CTDMO-H P350	0.042	0.042	0.002	1.40	1.40	1.00	0.12	0.0	0.0	0.0	-0.0	-2.8	59.2	0.0	1480.8	2.3
77	103	5/16" NILSPI	2.847	2.849	0.119	1.10	1.10	0.00	0.12	2.4	0.0	0.0	-0.1	-63.7	60.4	0.0	1446.2	2.5
76	347	VELPT-B	0.063	0.063	0.003	1.20	1.20	0.90	0.12	0.1	0.0	0.0	-0.0	-6.0	61.6	0.0	1414.2	2.5
75	103	5/16" NILSPI	0.010	0.010	0.000	1.10	1.10	0.00	0.12	0.0	0.0	0.0	-0.0	-0.2	61.6	0.0	1408.2	2.5
74	375	CTDMO-H P350	0.042	0.042	0.002	1.40	1.40	1.00	0.12	0.0	0.0	0.0	-0.0	-2.8	61.7	0.0	1408.0	2.5
73	103	5/16" NILSPI	2.846	2.849	0.130	1.10	1.10	0.00	0.11	2.2	0.0	0.0	-0.1	-63.7	62.8	0.0	1373.4	2.7
72	347	VELPT-B	0.063	0.063	0.003	1.20	1.20	0.90	0.11	0.1	0.0	0.0	-0.0	-6.0	63.9	0.0	1341.4	2.7
71	103	5/16" NILSPI	0.010	0.010	0.000	1.10	1.10	0.00	0.11	0.0	0.0	0.0	-0.0	-0.2	63.9	0.0	1335.4	2.7
70	375	CTDMO-H P350	0.042	0.042	0.002	1.40	1.40	1.00	0.11	0.0	0.0	0.0	-0.0	-2.8	63.9	0.0	1335.2	2.7
69	103	5/16" NILSPI	0.190	0.191	0.009	1.10	1.10	0.00	0.11	0.1	0.0	0.0	-0.0	-4.3	64.0	0.0	1330.3	2.8
68	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.11	0.5	0.0	0.0	0.0	0.0	64.1	0.0	1328.1	2.8
67	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	64.6	0.0	1328.1	2.8
66	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	64.6	0.0	1327.4	2.8
65	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	64.6	0.0	1326.7	2.8



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
64	181	1/2" MR	0.100	0.100	0.005	1.60	1.60	1.00	0.11	0.1	0.0	0.0	-0.0	-15.2	64.7	0.0	1319.9	2.8
63	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	64.7	0.0	1310.8	2.8
62	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	64.7	0.0	1310.2	2.8
61	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	64.8	0.0	1309.4	2.8
60	274	HR17-4 seria	0.999	1.000	0.049	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	64.8	0.0	1308.8	2.8
59	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	65.2	0.0	1396.7	2.7
58	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	65.2	0.0	1396.1	2.7
57	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	65.2	0.0	1395.3	2.7
56	274	HR17-4 seria	0.999	1.000	0.047	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	65.2	0.0	1394.7	2.7
55	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	65.6	0.0	1482.7	2.5
54	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	65.6	0.0	1482.0	2.5
53	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	65.6	0.0	1481.3	2.5
52	274	HR17-4 seria	0.999	1.000	0.044	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	65.6	0.0	1480.6	2.5
51	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.0	0.0	1568.6	2.4
50	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.0	0.0	1567.9	2.4
49	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.0	0.0	1567.2	2.4
48	274	HR17-4 seria	0.999	1.000	0.042	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	66.0	0.0	1566.5	2.4
47	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.4	0.0	1654.5	2.3
46	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.4	0.0	1653.8	2.3
45	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.4	0.0	1653.1	2.3
44	274	HR17-4 seria	0.999	1.000	0.040	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	66.4	0.0	1652.4	2.3
43	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.8	0.0	1740.4	2.2
42	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.9	0.0	1739.8	2.2
41	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	66.9	0.0	1739.0	2.2
40	274	HR17-4 seria	0.999	1.000	0.038	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	66.9	0.0	1738.4	2.2
39	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	67.3	0.0	1826.3	2.1
38	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	67.3	0.0	1825.7	2.1
37	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	67.3	0.0	1824.9	2.1
36	274	HR17-4 seria	0.999	1.000	0.037	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	67.3	0.0	1824.3	2.1



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg
Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
35	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	67.7	0.0	1912.3	2.0
34	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	67.7	0.0	1911.6	2.0
33	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	67.7	0.0	1910.9	2.0
32	274	HR17-4 seria	0.999	1.000	0.035	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	67.7	0.0	1910.2	2.0
31	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.1	0.0	1998.2	2.0
30	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.1	0.0	1997.5	2.0
29	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.1	0.0	1996.8	2.0
28	181	1/2" MR	0.100	0.100	0.003	1.60	1.60	1.00	0.11	0.1	0.0	0.0	-0.0	-15.2	68.2	0.0	1990.0	2.0
27	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.2	0.0	1980.9	2.0
26	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.2	0.0	1980.3	2.0
25	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.1	68.2	0.0	1979.5	2.0
24	94	Swivel 5t	0.025	0.025	0.001	1.20	1.20	1.20	0.11	0.0	0.0	0.0	-0.0	-5.3	68.3	0.0	1978.4	2.0
23	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.1	68.3	0.0	1973.1	2.0
22	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.3	0.0	1972.0	2.0
21	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.1	68.3	0.0	1971.3	2.0
20	478	Dual Release	0.288	0.288	0.010	1.20	1.20	0.90	0.11	0.2	0.0	0.0	-0.0	-61.0	68.3	0.0	1970.2	2.0
19	480	1/2" dropcha	0.024	0.024	0.001	1.60	1.60	1.00	0.11	0.0	0.0	0.0	-0.0	-6.8	68.5	0.0	1909.2	2.1
18	76	ML 17t 1-1/4	0.025	0.026	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-4.8	68.6	0.0	1902.4	2.1
17	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	68.6	0.0	1897.6	2.1
16	64	EL 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.0	68.6	0.0	1896.0	2.1
15	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.6	0.0	1895.0	2.1
14	181	1/2" MR	0.100	0.100	0.004	1.60	1.60	1.00	0.11	0.1	0.0	0.0	-0.0	-15.2	68.7	0.0	1888.2	2.1
13	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.7	0.0	1879.1	2.1
12	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	68.7	0.0	1878.4	2.1
11	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	68.7	0.0	1877.7	2.1
10	113	Nystron-1"	0.520	0.520	0.019	1.30	1.30	0.02	0.11	0.4	0.0	0.0	-0.0	-2.0	69.0	0.0	1875.2	2.1
9	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.11	0.5	0.0	0.0	0.0	0.0	69.2	0.0	1874.2	2.1
8	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	69.7	0.0	1874.2	2.1
7	64	EL 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.0	69.7	0.0	1872.6	2.1



Global Irminger MFM B 2014 Mooring Model Analysis
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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
6	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	69.7	0.0	1871.6	2.1
5	183	3/4" MR	0.150	0.150	0.006	1.60	1.60	1.00	0.11	0.2	0.0	0.0	-0.0	-33.0	69.8	0.0	1856.8	2.2
4	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.1	69.9	0.0	1837.0	2.2
3	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	69.9	0.0	1835.9	2.2
2	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	69.9	0.0	1835.2	2.2
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.11	0.9	0.0	0.0	0.0	-2742.1	69.9	0.0	1833.6	0.0



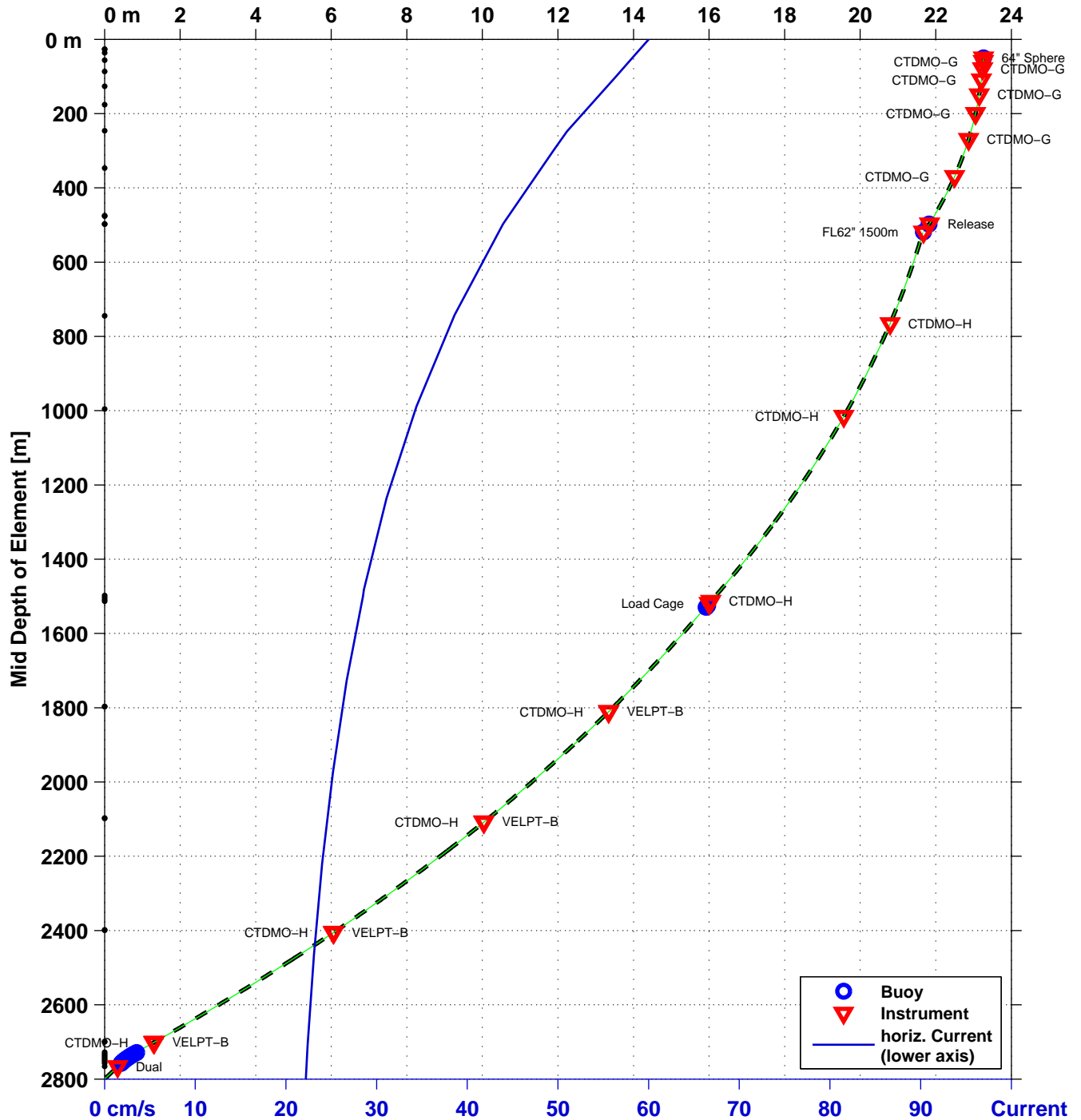
Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg
 Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

Event #002 – Subduction [m]: max. 23m, Top at 50m
 Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf



Event #002: Vert / Horiz anchor load: 1811 kg / 272 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2294 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



Global Irminger MFM B 2014 Mooring Model Analysis

designed for 2800m Depth

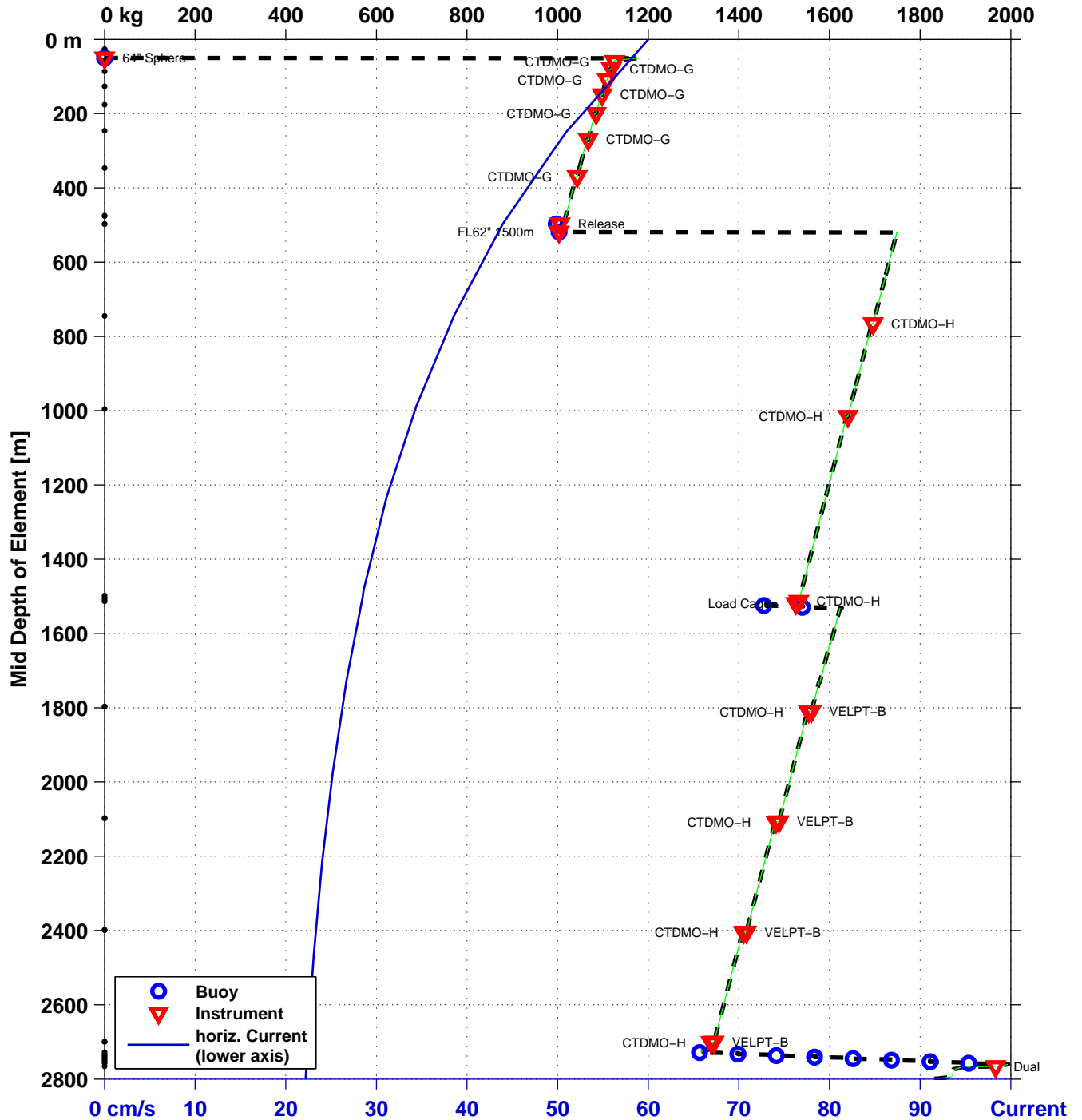


By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg
 Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

Event #002 – Tension [kg]

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf



Event #002: Vert / Horiz anchor load: 1811 kg / 272 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2294 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Result

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
155	306	64" Sphere 100	2.3	1180.0	2.087	0.50	0.58	18.5	0.0	0.0	0.00	0.00	48.7	23.3	344.5	0.9
154	17	U-Joint	0.3	-16.3	0.090	1.50	0.58	2.4	1180.1	7.4	0.00	0.00	51.1	23.3	344.5	0.9
153	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.58	22.9	1163.9	11.6	0.00	0.00	51.7	23.3	344.5	2.0
152	13	ind. term	0.1	-2.4	0.005	1.50	0.58	0.1	1128.9	7.1	0.00	0.00	56.3	23.3	344.3	2.2
151	103	5/16" NILSPIN	3.0	-0.6	0.029	1.10	0.58	0.6	1126.5	24.2	0.01	0.25	56.8	23.3	344.3	2.3
150	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.58	1.0	1125.9	11.3	0.00	0.00	59.3	23.3	344.2	2.3
149	103	5/16" NILSPIN	20.0	-4.3	0.191	1.10	0.58	3.6	1123.1	24.1	0.05	0.25	59.8	23.3	344.2	2.5
148	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.57	1.0	1118.8	11.2	0.00	0.00	79.4	23.2	343.4	2.5
147	103	5/16" NILSPIN	30.1	-6.4	0.286	1.10	0.57	5.3	1116.0	24.0	0.07	0.25	79.9	23.2	343.4	2.9
146	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.56	1.0	1109.6	11.1	0.00	0.00	109.4	23.2	341.9	2.9
145	103	5/16" NILSPIN	40.1	-8.5	0.381	1.10	0.55	6.7	1106.9	23.8	0.10	0.24	109.9	23.2	341.9	3.3
144	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.55	0.9	1098.3	11.0	0.00	0.00	149.4	23.2	339.8	3.3
143	103	5/16" NILSPIN	50.1	-10.6	0.476	1.10	0.54	7.9	1095.5	23.5	0.12	0.24	149.9	23.2	339.8	3.8
142	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.53	0.9	1084.9	10.8	0.00	0.00	199.5	23.1	336.6	3.8
141	103	5/16" NILSPIN	70.2	-14.9	0.667	1.10	0.52	10.1	1082.1	23.3	0.17	0.24	200.0	23.1	336.6	4.4
140	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.50	0.8	1067.3	10.7	0.00	0.00	269.4	22.9	331.6	4.5
139	103	5/16" NILSPIN	100.2	-21.3	0.953	1.10	0.49	13.0	1064.5	22.9	0.23	0.23	269.9	22.9	331.6	5.3
138	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.48	0.7	1043.3	10.4	0.00	0.00	369.3	22.5	323.0	5.3
137	103	5/16" NILSPIN	127.3	-27.1	1.210	1.10	0.46	14.4	1040.5	22.4	0.29	0.23	369.8	22.5	323.0	6.3
136	13	ind. term	0.1	-2.4	0.005	1.50	0.44	0.1	1013.6	6.3	0.00	0.00	496.0	21.8	310.0	6.3
135	15	coupler ec	0.2	-6.0	0.020	1.50	0.44	0.3	1011.2	6.3	0.00	0.00	496.1	21.8	310.0	6.3
133	479	Release Float	1.0	0.0	0.592	1.20	0.44	7.3	1005.2	10.1	0.00	0.00	496.7	21.8	310.0	6.4
131	15	coupler ec	0.2	-6.0	0.020	1.50	0.44	0.3	1005.3	6.3	0.00	0.00	497.3	21.8	309.9	6.8
130	13	ind. term	0.1	-2.4	0.005	1.50	0.44	0.1	999.3	6.2	0.00	0.00	497.5	21.8	309.8	6.9
129	256	CF14-1000	0.0	13.0	0.225	0.50	0.44	1.2	996.9	16.6	0.00	0.00	497.5	21.8	309.8	6.9
127	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.44	1.0	1009.9	21.7	0.02	0.22	498.0	21.8	309.8	6.9
126	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.44	1.0	1007.8	21.7	0.02	0.22	508.0	21.8	308.6	7.0
125	13	ind. term	0.1	-2.4	0.005	1.50	0.44	0.1	1005.6	6.3	0.00	0.00	517.5	21.7	307.4	7.0
124	326	FL62" 1500m ADC	2.8	750.0	1.887	0.50	0.44	9.4	1003.3	10.0	0.00	0.00	518.9	21.7	307.4	7.0



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Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
123	13	ind. term	0.1	-2.4	0.005	1.50	0.43	0.1	1750.7	10.9	0.00	0.00	520.4	21.7	307.1	4.3
122	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.41	22.2	1748.3	37.6	0.94	0.38	520.9	21.7	307.0	5.2
121	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.38	0.5	1696.3	17.0	0.00	0.00	765.5	20.8	286.5	5.2
120	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.36	17.7	1693.5	36.4	0.92	0.37	766.0	20.8	286.5	6.0
119	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.34	0.4	1640.5	16.4	0.00	0.00	1015.2	19.6	261.7	6.0
118	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.32	14.2	1637.8	35.2	0.89	0.36	1015.7	19.6	261.7	6.8
117	103	5/16" NILSPIN	250.9	-53.3	2.383	1.10	0.30	11.8	1584.9	34.1	0.86	0.35	1265.0	18.0	233.6	7.5
116	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.28	0.3	1532.0	15.3	0.00	0.00	1513.4	16.0	202.5	7.5
115	103	5/16" NILSPIN	5.0	-1.1	0.048	1.10	0.28	0.2	1529.3	32.9	0.02	0.34	1513.9	16.0	202.5	7.5
114	13	ind. term	0.1	-2.4	0.005	1.50	0.28	0.0	1528.2	9.6	0.00	0.00	1518.4	16.0	201.9	7.5
113	300	Load Cage	1.5	-60.0	0.300	1.30	0.28	1.7	1525.8	15.3	0.00	0.00	1519.2	16.0	201.9	7.5
112	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1466.4	12.2	0.00	0.00	1520.0	16.0	201.7	7.9
111	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.28	0.1	1465.7	12.2	0.00	0.00	1520.1	16.0	201.7	7.9
110	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1465.0	12.2	0.00	0.00	1520.2	16.0	201.6	7.9
109	181	1/2" MR	2.5	-7.6	0.050	1.60	0.28	0.3	1464.3	14.6	0.00	0.00	1520.6	16.0	201.6	7.9
108	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1456.8	12.1	0.00	0.00	1522.7	16.0	201.3	8.0
107	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.28	0.1	1456.2	12.1	0.00	0.00	1522.8	16.0	201.3	8.0
106	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1455.4	12.1	0.00	0.00	1522.9	16.0	201.3	8.0
105	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.28	2.6	1454.8	14.5	0.00	0.00	1524.9	16.0	201.2	8.0
104	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1542.0	12.8	0.00	0.00	1526.9	15.9	200.7	7.6
103	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.28	0.1	1541.3	12.8	0.00	0.00	1527.0	15.9	200.7	7.6
102	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1540.6	12.8	0.00	0.00	1527.1	15.9	200.7	7.6
101	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.28	2.5	1539.9	15.4	0.00	0.00	1529.1	15.9	200.7	7.6
100	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1627.2	13.6	0.00	0.00	1531.1	15.9	200.1	7.3
99	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.28	0.1	1626.6	13.6	0.00	0.00	1531.2	15.9	200.1	7.3
98	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1625.8	13.5	0.00	0.00	1531.3	15.9	200.1	7.3
96	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1625.2	13.5	0.00	0.00	1531.4	15.9	200.1	7.3
95	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.28	0.1	1624.5	13.5	0.00	0.00	1531.5	15.9	200.1	7.3
94	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.28	0.0	1623.8	13.5	0.00	0.00	1531.6	15.9	200.1	7.3



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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
93	103	5/16" NILSPIN	100.4	-21.3	0.953	1.10	0.28	4.2	1623.1	34.9	0.36	0.36	1532.1	15.9	200.1	7.6
92	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1602.0	13.4	0.00	0.00	1631.1	15.0	187.0	7.6
91	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.27	0.1	1601.4	13.3	0.00	0.00	1631.2	15.0	187.0	7.6
90	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1600.6	13.3	0.00	0.00	1631.3	15.0	187.0	7.6
89	103	5/16" NILSPIN	100.4	-21.3	0.953	1.10	0.27	3.9	1600.0	34.4	0.35	0.35	1631.8	15.0	187.0	7.8
88	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1578.9	13.2	0.00	0.00	1730.8	14.1	173.5	7.8
87	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.27	0.1	1578.2	13.2	0.00	0.00	1730.9	14.1	173.5	7.9
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1577.5	13.1	0.00	0.00	1731.0	14.1	173.5	7.9
85	103	5/16" NILSPIN	79.3	-16.8	0.753	1.10	0.26	3.0	1576.8	33.9	0.27	0.35	1731.5	14.1	173.5	8.1
84	347	VELPT-B	0.0	-6.0	0.063	1.20	0.26	0.3	1560.2	15.6	0.00	0.00	1809.5	13.4	162.5	8.1
83	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.26	0.0	1554.2	33.4	0.00	0.34	1810.0	13.4	162.5	8.1
82	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.26	0.2	1554.0	15.5	0.00	0.00	1810.5	13.3	162.4	8.1
81	103	5/16" NILSPIN	300.0	-63.7	2.849	1.10	0.25	10.2	1551.2	33.3	1.01	0.34	1811.0	13.3	162.4	8.9
80	347	VELPT-B	0.0	-6.0	0.063	1.20	0.25	0.2	1488.3	14.9	0.00	0.00	2107.2	10.0	118.0	8.9
79	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.25	0.0	1482.3	31.9	0.00	0.33	2107.7	10.0	118.0	8.9
78	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.25	0.2	1482.1	14.8	0.00	0.00	2108.2	10.0	117.9	8.9
77	103	5/16" NILSPIN	300.0	-63.7	2.849	1.10	0.24	9.1	1479.4	31.8	0.96	0.32	2108.7	10.0	117.9	9.7
76	347	VELPT-B	0.0	-6.0	0.063	1.20	0.23	0.2	1416.5	14.2	0.00	0.00	2404.2	6.1	69.3	9.7
75	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.23	0.0	1410.6	30.3	0.00	0.31	2404.7	6.1	69.3	9.8
74	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.23	0.2	1410.4	14.1	0.00	0.00	2405.2	6.1	69.1	9.8
73	103	5/16" NILSPIN	299.9	-63.7	2.849	1.10	0.23	8.2	1407.7	30.3	0.91	0.31	2405.7	6.1	69.1	10.6
72	347	VELPT-B	0.0	-6.0	0.063	1.20	0.22	0.2	1345.0	13.5	0.00	0.00	2700.4	1.3	16.0	10.6
71	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.22	0.0	1339.1	28.8	0.00	0.30	2700.9	1.3	16.0	10.7
70	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.22	0.2	1338.9	13.4	0.00	0.00	2701.4	1.3	15.8	10.7
69	103	5/16" NILSPIN	20.1	-4.3	0.191	1.10	0.22	0.5	1336.2	28.7	0.06	0.30	2701.9	1.3	15.8	10.8
68	491	Parachute	0.0	0.0	1.500	0.50	0.22	2.0	1332.0	13.3	0.00	0.00	2721.1	0.9	12.1	10.8
67	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1332.3	11.1	0.00	0.00	2721.1	0.9	12.1	10.8
66	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1331.7	11.1	0.00	0.00	2721.2	0.9	12.1	10.8
65	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1331.0	11.1	0.00	0.00	2721.3	0.9	12.1	10.9



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Event #002 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
64	181	1/2" MR	5.0	-15.2	0.100	1.60	0.22	0.4	1330.3	13.3	0.00	0.00	2721.8	0.9	12.1	11.0
63	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1315.4	11.0	0.00	0.00	2726.3	0.9	11.1	11.0
62	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1314.8	11.0	0.00	0.00	2726.4	0.9	11.1	11.0
61	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1314.0	11.0	0.00	0.00	2726.4	0.9	11.1	11.0
60	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1313.4	13.1	0.00	0.00	2728.5	0.8	11.1	11.0
59	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1399.9	11.7	0.00	0.00	2730.4	0.8	10.3	10.4
58	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1399.2	11.7	0.00	0.00	2730.5	0.8	10.3	10.4
57	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1398.5	11.7	0.00	0.00	2730.6	0.8	10.3	10.4
56	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1397.8	14.0	0.00	0.00	2732.6	0.8	10.3	10.4
55	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1484.5	12.4	0.00	0.00	2734.6	0.7	9.5	9.9
54	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1483.8	12.4	0.00	0.00	2734.7	0.7	9.5	9.9
53	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1483.1	12.4	0.00	0.00	2734.8	0.7	9.5	9.9
52	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1482.5	14.8	0.00	0.00	2736.8	0.7	9.5	9.9
51	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1569.2	13.1	0.00	0.00	2738.8	0.6	8.8	9.4
50	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1568.6	13.1	0.00	0.00	2738.9	0.6	8.8	9.4
49	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1567.9	13.1	0.00	0.00	2739.0	0.6	8.8	9.4
48	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1567.2	15.7	0.00	0.00	2741.0	0.6	8.8	9.4
47	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1654.1	13.8	0.00	0.00	2743.0	0.6	8.1	9.0
46	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1653.5	13.8	0.00	0.00	2743.1	0.6	8.1	9.0
45	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1652.7	13.8	0.00	0.00	2743.1	0.6	8.1	9.0
44	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1652.1	16.5	0.00	0.00	2745.2	0.6	8.1	9.0
43	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1739.1	14.5	0.00	0.00	2747.2	0.5	7.4	8.6
42	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1738.4	14.5	0.00	0.00	2747.3	0.5	7.4	8.6
41	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1737.7	14.5	0.00	0.00	2747.3	0.5	7.4	8.6
40	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1737.0	17.4	0.00	0.00	2749.4	0.5	7.4	8.6
39	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1824.1	15.2	0.00	0.00	2751.4	0.5	6.8	8.2
38	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1823.4	15.2	0.00	0.00	2751.4	0.5	6.8	8.2
37	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1822.7	15.2	0.00	0.00	2751.5	0.5	6.8	8.2
36	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1822.1	18.2	0.00	0.00	2753.6	0.5	6.8	8.2



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSealgi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
35	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1909.2	15.9	0.00	0.00	2755.6	0.4	6.2	7.9
34	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1908.5	15.9	0.00	0.00	2755.6	0.4	6.2	7.9
33	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1907.8	15.9	0.00	0.00	2755.7	0.4	6.2	7.9
32	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.6	1907.2	19.1	0.00	0.00	2757.8	0.4	6.2	7.9
31	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1994.4	16.6	0.00	0.00	2759.8	0.4	5.6	7.6
30	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1993.7	16.6	0.00	0.00	2759.9	0.4	5.6	7.6
29	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1993.0	16.6	0.00	0.00	2759.9	0.4	5.6	7.6
28	181	1/2" MR	5.0	-15.2	0.100	1.60	0.22	0.4	1992.3	19.9	0.00	0.00	2760.5	0.4	5.6	7.7
27	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1977.3	16.5	0.00	0.00	2765.0	0.4	4.9	7.7
26	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1976.6	16.5	0.00	0.00	2765.1	0.4	4.9	7.7
25	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	1975.9	11.0	0.00	0.00	2765.1	0.4	4.9	7.7
24	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.22	0.1	1974.8	19.7	0.00	0.00	2765.3	0.4	4.9	7.7
23	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	1969.5	10.9	0.00	0.00	2765.4	0.4	4.9	7.7
22	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1968.4	16.4	0.00	0.00	2765.5	0.3	4.8	7.7
21	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	1967.7	10.9	0.00	0.00	2765.6	0.3	4.8	7.7
20	478	Dual Release	1.0	-61.0	0.288	1.20	0.22	0.9	1966.7	19.7	0.00	0.00	2766.2	0.3	4.8	7.8
19	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.22	0.1	1906.2	11.9	0.00	0.00	2767.0	0.3	4.7	8.0
18	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.22	0.1	1899.5	4.3	0.00	0.00	2767.4	0.3	4.6	8.1
17	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.1	1894.7	7.9	0.00	0.00	2767.6	0.3	4.6	8.1
16	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.22	0.0	1893.2	7.9	0.00	0.00	2767.7	0.3	4.5	8.1
15	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1892.2	15.8	0.00	0.00	2767.8	0.3	4.5	8.1
14	181	1/2" MR	5.0	-15.2	0.100	1.60	0.22	0.4	1891.5	18.9	0.00	0.00	2768.3	0.3	4.5	8.2
13	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1876.5	15.6	0.00	0.00	2772.8	0.3	3.8	8.2
12	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1875.8	15.6	0.00	0.00	2772.9	0.3	3.8	8.2
11	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.1	1875.1	7.8	0.00	0.00	2773.0	0.3	3.8	8.2
10	113	Nystron-1"	20.7	-2.0	0.520	1.30	0.22	1.7	1873.5	11.2	0.67	3.34	2773.5	0.3	3.8	8.3
9	491	Parachute	0.0	0.0	1.500	0.50	0.22	2.0	1871.6	18.7	0.00	0.00	2793.5	0.1	0.8	8.3
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.1	1871.9	7.8	0.00	0.00	2793.5	0.1	0.8	8.3
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.22	0.0	1870.3	7.8	0.00	0.00	2793.6	0.1	0.8	8.3



Global Irminger MFM B 2014 Mooring Model Analysis
designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	Tension [%]	Stretch [m]	Stretch [%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.1	1869.3	7.8	0.00	0.00	2793.7	0.1	0.8	8.3
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.22	0.6	1867.8	7.8	0.00	0.00	2794.3	0.1	0.8	8.5
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	1835.1	10.2	0.00	0.00	2798.8	0.0	0.0	8.5
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1834.0	15.3	0.00	0.00	2798.9	0.0	0.0	8.5
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.1	1833.3	7.6	0.00	0.00	2799.0	0.0	0.0	8.5
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.22	3.8	1831.8	30.5	0.00	0.00	2800.0	0.0	0.0	0.0

Max. 37.6% Static Tension at:																
122	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.41	22.2	1748.3	37.6	0.94	0.38	520.9	21.7	307.0	5.2

Vert/Horiz Anchor Load : 1811 kg / 272 kg
 Wet MACE Anchor Weight : 2742 kg
 Safe MACE Anchor Weight : 2294 kg



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Parameter

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
155	306	64" Sphere	2.087	2.087	2.087	0.50	0.50	0.50	0.58	18.5	0.0	0.0	0.0	1180.0	0.0	0.0	0.0	0.9
154	17	U-Joint	0.090	0.090	0.001	1.50	1.50	1.50	0.58	2.4	0.0	0.0	-0.0	-16.3	18.5	0.0	1180.0	0.9
153	141	1/2" EM chai	1.000	1.000	0.026	1.30	1.30	1.00	0.58	22.9	0.0	0.0	-0.6	-35.0	30.1	0.0	1149.5	2.0
152	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.58	0.1	0.0	0.0	-0.0	-2.4	43.8	0.0	1128.1	2.2
151	103	5/16" NILSPI	0.029	0.029	0.001	1.10	1.10	0.00	0.58	0.6	0.0	0.0	-0.0	-0.6	44.1	0.0	1125.4	2.3
150	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.58	1.0	0.0	0.0	-0.0	-2.8	44.5	0.0	1125.0	2.3
149	103	5/16" NILSPI	0.190	0.191	0.008	1.10	1.10	0.00	0.58	3.6	0.0	0.0	-0.2	-4.3	47.3	0.0	1120.1	2.5
148	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.57	1.0	0.0	0.0	-0.0	-2.8	49.2	0.0	1117.7	2.5
147	103	5/16" NILSPI	0.286	0.286	0.014	1.10	1.10	0.00	0.57	5.3	0.0	0.0	-0.2	-6.4	52.7	0.0	1111.7	2.9
146	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.56	1.0	0.0	0.0	-0.0	-2.8	55.4	0.0	1108.3	2.9
145	103	5/16" NILSPI	0.381	0.381	0.021	1.10	1.10	0.00	0.55	6.7	0.0	0.0	-0.4	-8.5	59.7	0.0	1101.1	3.3
144	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.55	0.9	0.0	0.0	-0.1	-2.8	63.1	0.0	1096.5	3.3
143	103	5/16" NILSPI	0.476	0.476	0.030	1.10	1.10	0.00	0.54	7.9	0.0	0.0	-0.5	-10.7	67.9	0.0	1088.2	3.8
142	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.53	0.9	0.0	0.0	-0.1	-2.8	71.9	0.0	1082.5	3.8
141	103	5/16" NILSPI	0.665	0.667	0.048	1.09	1.10	0.00	0.52	10.1	0.0	0.0	-0.7	-14.9	77.8	0.0	1072.0	4.4
140	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.50	0.8	0.0	0.0	-0.1	-2.8	82.8	0.0	1064.0	4.5
139	103	5/16" NILSPI	0.949	0.953	0.082	1.09	1.10	0.00	0.49	13.0	0.0	0.0	-1.1	-21.3	90.2	0.0	1050.1	5.3
138	374	CTDMO-G P100	0.042	0.042	0.004	1.39	1.40	1.00	0.48	0.7	0.0	0.0	-0.1	-2.8	96.6	0.0	1038.8	5.3
137	103	5/16" NILSPI	1.204	1.210	0.123	1.09	1.10	0.00	0.46	14.4	0.0	0.0	-1.5	-27.1	104.6	0.0	1021.8	6.3
136	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.44	0.1	0.0	0.0	-0.0	-2.4	111.7	0.0	1007.4	6.3
135	15	coupler ec	0.020	0.020	0.002	1.49	1.50	1.49	0.44	0.3	0.0	0.0	-0.0	-6.0	111.8	0.0	1005.0	6.3
133	479	Release Floa	0.588	0.592	0.066	1.19	1.20	0.89	0.44	7.3	0.0	0.0	-0.8	0.0	112.1	0.0	999.0	6.4
131	15	coupler ec	0.020	0.020	0.002	1.49	1.50	1.49	0.44	0.3	0.0	0.0	-0.0	-6.0	119.3	0.0	998.2	6.8
130	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.44	0.1	0.0	0.0	-0.0	-2.4	119.7	0.0	992.1	6.9
129	256	CF14-1000	0.223	0.225	0.027	0.50	0.50	0.40	0.44	1.2	0.0	0.0	-0.1	13.0	119.7	0.0	989.7	6.9
127	103	5/16" NILSPI	0.095	0.095	0.011	1.08	1.10	0.00	0.44	1.0	0.0	0.0	-0.1	-2.1	121.4	0.0	1001.6	6.9
126	103	5/16" NILSPI	0.095	0.095	0.012	1.08	1.10	0.00	0.44	1.0	0.0	0.0	-0.1	-2.1	122.4	0.0	999.3	7.0
125	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.44	0.1	0.0	0.0	-0.0	-2.4	122.9	0.0	998.1	7.0
124	326	FL62" 1500m	1.887	1.887	1.887	0.50	0.50	0.50	0.44	9.4	0.0	0.0	0.0	750.0	123.0	0.0	995.7	7.0



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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
123	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.43	0.1	0.0	0.0	-0.0	-2.4	132.4	0.0	1745.7	4.3
122	103	5/16" NILSPI	2.327	2.335	0.195	1.09	1.10	0.00	0.41	22.2	0.0	0.0	-1.8	-52.2	144.0	0.0	1716.4	5.2
121	375	CTDMO-H P350	0.042	0.042	0.004	1.39	1.40	1.00	0.38	0.5	0.0	0.0	-0.0	-2.8	154.6	0.0	1689.2	5.2
120	103	5/16" NILSPI	2.371	2.382	0.235	1.09	1.10	0.00	0.36	17.7	0.0	0.0	-1.7	-53.3	164.2	0.0	1659.0	6.0
119	375	CTDMO-H P350	0.042	0.042	0.004	1.39	1.40	0.99	0.34	0.4	0.0	0.0	-0.0	-2.8	172.8	0.0	1631.4	6.0
118	103	5/16" NILSPI	2.367	2.382	0.267	1.08	1.10	0.00	0.32	14.2	0.0	0.0	-1.6	-53.3	180.4	0.0	1601.3	6.8
117	103	5/16" NILSPI	2.364	2.383	0.296	1.08	1.10	0.00	0.30	11.8	0.0	0.0	-1.5	-53.3	193.3	0.0	1546.5	7.5
116	375	CTDMO-H P350	0.042	0.042	0.005	1.39	1.40	0.99	0.28	0.3	0.0	0.0	-0.0	-2.8	199.0	0.0	1519.0	7.5
115	103	5/16" NILSPI	0.047	0.048	0.006	1.08	1.10	0.00	0.28	0.2	0.0	0.0	-0.0	-1.1	199.4	0.0	1515.8	7.5
114	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-2.4	199.5	0.0	1515.1	7.5
113	300	Load Cage	0.297	0.300	0.039	1.29	1.30	0.89	0.28	1.7	0.0	0.0	-0.2	-60.0	199.5	0.0	1512.7	7.5
112	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	201.2	0.0	1452.5	7.9
111	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.28	0.1	0.0	0.0	-0.0	-0.7	201.3	0.0	1451.8	7.9
110	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	201.3	0.0	1451.1	7.9
109	181	1/2" MR	0.050	0.050	0.007	1.58	1.60	0.99	0.28	0.3	0.0	0.0	-0.0	-7.6	201.5	0.0	1447.9	7.9
108	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	201.7	0.0	1442.8	8.0
107	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.28	0.1	0.0	0.0	-0.0	-0.7	201.7	0.0	1442.1	8.0
106	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	201.8	0.0	1441.4	8.0
105	274	HR17-4 seria	0.990	1.000	0.139	0.59	0.60	1.05	0.28	2.6	0.0	0.0	-0.3	88.0	201.8	0.0	1440.7	8.0
104	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	204.4	0.0	1528.4	7.6
103	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.28	0.1	0.0	0.0	-0.0	-0.7	204.4	0.0	1527.7	7.6
102	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	204.5	0.0	1527.0	7.6
101	274	HR17-4 seria	0.991	1.000	0.133	0.59	0.60	1.05	0.28	2.5	0.0	0.0	-0.3	88.0	204.5	0.0	1526.3	7.6
100	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	207.1	0.0	1614.0	7.3
99	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.28	0.1	0.0	0.0	-0.0	-0.7	207.1	0.0	1613.3	7.3
98	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	207.2	0.0	1612.6	7.3
96	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	207.2	0.0	1611.9	7.3
95	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.28	0.1	0.0	0.0	-0.0	-0.7	207.3	0.0	1611.2	7.3
94	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.28	0.0	0.0	0.0	-0.0	-0.7	207.3	0.0	1610.5	7.3



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
93	103	5/16" NILSPI	0.945	0.953	0.124	1.08	1.10	0.00	0.28	4.2	0.0	0.0	-0.5	-21.3	209.5	0.0	1599.0	7.6
92	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.27	0.0	0.0	0.0	-0.0	-0.7	211.6	0.0	1588.0	7.6
91	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.27	0.1	0.0	0.0	-0.0	-0.7	211.6	0.0	1587.3	7.6
90	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.27	0.0	0.0	0.0	-0.0	-0.7	211.7	0.0	1586.6	7.6
89	103	5/16" NILSPI	0.944	0.953	0.128	1.08	1.10	0.00	0.27	3.9	0.0	0.0	-0.5	-21.3	213.7	0.0	1575.1	7.8
88	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.27	0.0	0.0	0.0	-0.0	-0.7	215.6	0.0	1564.1	7.8
87	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.27	0.1	0.0	0.0	-0.0	-0.7	215.7	0.0	1563.4	7.9
86	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.27	0.0	0.0	0.0	-0.0	-0.7	215.7	0.0	1562.7	7.9
85	103	5/16" NILSPI	0.746	0.753	0.104	1.08	1.10	0.00	0.26	3.0	0.0	0.0	-0.4	-16.8	217.2	0.0	1553.5	8.1
84	347	VELPT-B	0.062	0.063	0.009	1.19	1.20	0.89	0.26	0.3	0.0	0.0	-0.0	-6.0	218.7	0.0	1544.8	8.1
83	103	5/16" NILSPI	0.009	0.010	0.001	1.08	1.10	0.00	0.26	0.0	0.0	0.0	-0.0	-0.2	219.0	0.0	1538.7	8.1
82	375	CTDMO-H P350	0.042	0.042	0.006	1.39	1.40	0.99	0.26	0.2	0.0	0.0	-0.0	-2.8	219.0	0.0	1538.5	8.1
81	103	5/16" NILSPI	2.818	2.849	0.421	1.07	1.10	0.00	0.25	10.2	0.0	0.0	-1.5	-63.7	224.5	0.0	1503.2	8.9
80	347	VELPT-B	0.062	0.063	0.010	1.19	1.20	0.89	0.25	0.2	0.0	0.0	-0.0	-6.0	229.5	0.0	1470.5	8.9
79	103	5/16" NILSPI	0.009	0.010	0.001	1.07	1.10	0.00	0.25	0.0	0.0	0.0	-0.0	-0.2	229.7	0.0	1464.4	8.9
78	375	CTDMO-H P350	0.042	0.042	0.007	1.38	1.40	0.99	0.25	0.2	0.0	0.0	-0.0	-2.8	229.8	0.0	1464.2	8.9
77	103	5/16" NILSPI	2.812	2.849	0.462	1.07	1.10	0.00	0.24	9.1	0.0	0.0	-1.5	-63.7	234.5	0.0	1428.9	9.7
76	347	VELPT-B	0.062	0.063	0.011	1.18	1.20	0.89	0.23	0.2	0.0	0.0	-0.0	-6.0	239.0	0.0	1396.2	9.7
75	103	5/16" NILSPI	0.009	0.010	0.002	1.07	1.10	0.00	0.23	0.0	0.0	0.0	-0.0	-0.2	239.2	0.0	1390.2	9.8
74	375	CTDMO-H P350	0.042	0.042	0.007	1.38	1.40	0.99	0.23	0.2	0.0	0.0	-0.0	-2.8	239.3	0.0	1390.0	9.8
73	103	5/16" NILSPI	2.804	2.849	0.504	1.06	1.10	0.00	0.23	8.2	0.0	0.0	-1.5	-63.7	243.6	0.0	1354.7	10.6
72	347	VELPT-B	0.062	0.063	0.012	1.18	1.20	0.88	0.22	0.2	0.0	0.0	-0.0	-6.0	247.7	0.0	1322.0	10.6
71	103	5/16" NILSPI	0.009	0.010	0.002	1.06	1.10	0.00	0.22	0.0	0.0	0.0	-0.0	-0.2	247.9	0.0	1316.0	10.7
70	375	CTDMO-H P350	0.041	0.042	0.008	1.38	1.40	0.98	0.22	0.2	0.0	0.0	-0.0	-2.8	247.9	0.0	1315.8	10.7
69	103	5/16" NILSPI	0.187	0.191	0.035	1.06	1.10	0.00	0.22	0.5	0.0	0.0	-0.1	-4.3	248.3	0.0	1310.9	10.8
68	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.22	2.0	0.0	0.0	0.0	0.0	248.6	0.0	1308.6	10.8
67	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.22	0.0	0.0	0.0	-0.0	-0.7	250.6	0.0	1308.6	10.8
66	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.22	0.0	0.0	0.0	-0.0	-0.7	250.6	0.0	1307.9	10.8
65	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.22	0.0	0.0	0.0	-0.0	-0.7	250.6	0.0	1307.2	10.9



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
64	181	1/2" MR	0.098	0.100	0.019	1.57	1.60	0.98	0.22	0.4	0.0	0.0	-0.1	-15.2	250.8	0.0	1300.4	11.0
63	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.22	0.0	0.0	0.0	-0.0	-0.7	251.1	0.0	1291.2	11.0
62	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.22	0.0	0.0	0.0	-0.0	-0.7	251.1	0.0	1290.6	11.0
61	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.22	0.0	0.0	0.0	-0.0	-0.7	251.1	0.0	1289.8	11.0
60	274	HR17-4 seria	0.982	1.000	0.191	0.59	0.60	1.04	0.22	1.6	0.0	0.0	-0.3	88.0	251.1	0.0	1289.1	11.0
59	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	252.7	0.0	1376.9	10.4
58	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	252.8	0.0	1376.2	10.4
57	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	252.8	0.0	1375.5	10.4
56	274	HR17-4 seria	0.984	1.000	0.181	0.59	0.60	1.04	0.22	1.6	0.0	0.0	-0.3	88.0	252.8	0.0	1374.8	10.4
55	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	254.4	0.0	1462.5	9.9
54	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	254.4	0.0	1461.9	9.9
53	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	254.5	0.0	1461.1	9.9
52	274	HR17-4 seria	0.985	1.000	0.172	0.59	0.60	1.04	0.22	1.6	0.0	0.0	-0.2	88.0	254.5	0.0	1460.5	9.9
51	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	256.1	0.0	1548.2	9.4
50	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	256.1	0.0	1547.5	9.4
49	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	256.2	0.0	1546.8	9.4
48	274	HR17-4 seria	0.987	1.000	0.163	0.59	0.60	1.05	0.22	1.6	0.0	0.0	-0.2	88.0	256.2	0.0	1546.1	9.4
47	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	257.8	0.0	1633.9	9.0
46	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	257.8	0.0	1633.2	9.0
45	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	257.9	0.0	1632.5	9.0
44	274	HR17-4 seria	0.988	1.000	0.156	0.59	0.60	1.05	0.22	1.6	0.0	0.0	-0.2	88.0	257.9	0.0	1631.8	9.0
43	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	259.5	0.0	1719.6	8.6
42	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	259.5	0.0	1718.9	8.6
41	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	259.5	0.0	1718.2	8.6
40	274	HR17-4 seria	0.989	1.000	0.149	0.59	0.60	1.05	0.22	1.6	0.0	0.0	-0.2	88.0	259.6	0.0	1717.5	8.6
39	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	261.2	0.0	1805.3	8.2
38	53	PL 3t 3/4"	0.010	0.010	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	261.2	0.0	1804.6	8.2
37	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	261.2	0.0	1803.9	8.2
36	274	HR17-4 seria	0.990	1.000	0.143	0.59	0.60	1.05	0.22	1.6	0.0	0.0	-0.2	88.0	261.3	0.0	1803.2	8.2



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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
35	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	262.9	0.0	1891.0	7.9
34	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	262.9	0.0	1890.3	7.9
33	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	262.9	0.0	1889.6	7.9
32	274	HR17-4 seria	0.990	1.000	0.138	0.59	0.60	1.05	0.22	1.6	0.0	0.0	-0.2	88.0	262.9	0.0	1888.9	7.9
31	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	264.5	0.0	1976.7	7.6
30	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	264.6	0.0	1976.1	7.6
29	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	264.6	0.0	1975.3	7.6
28	181	1/2" MR	0.099	0.100	0.013	1.59	1.60	0.99	0.22	0.4	0.0	0.0	-0.1	-15.2	264.8	0.0	1968.6	7.7
27	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	265.0	0.0	1959.4	7.7
26	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	265.1	0.0	1958.7	7.7
25	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-1.1	265.1	0.0	1958.0	7.7
24	94	Swivel 5t	0.025	0.025	0.003	1.19	1.20	1.19	0.22	0.1	0.0	0.0	-0.0	-5.3	265.1	0.0	1956.9	7.7
23	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-1.1	265.2	0.0	1951.6	7.7
22	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	265.3	0.0	1950.5	7.7
21	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-1.1	265.3	0.0	1949.7	7.7
20	478	Dual Release	0.285	0.288	0.039	1.19	1.20	0.89	0.22	0.9	0.0	0.0	-0.1	-61.0	265.3	0.0	1948.7	7.8
19	480	1/2" dropcha	0.024	0.024	0.003	1.58	1.60	0.99	0.22	0.1	0.0	0.0	-0.0	-6.8	266.3	0.0	1887.6	8.0
18	76	ML 17t 1-1/4	0.025	0.026	0.004	1.49	1.50	1.49	0.22	0.1	0.0	0.0	-0.0	-4.8	266.4	0.0	1880.7	8.1
17	34	AS 6t 7/8"	0.012	0.012	0.002	1.49	1.50	1.49	0.22	0.1	0.0	0.0	-0.0	-1.6	266.5	0.0	1875.9	8.1
16	64	EL 6t 7/8"	0.012	0.012	0.002	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-1.0	266.5	0.0	1874.3	8.1
15	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-0.7	266.6	0.0	1873.3	8.1
14	181	1/2" MR	0.099	0.100	0.014	1.58	1.60	0.99	0.22	0.4	0.0	0.0	-0.1	-15.2	266.8	0.0	1866.5	8.2
13	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	267.0	0.0	1857.4	8.2
12	53	PL 3t 3/4"	0.010	0.010	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	267.0	0.0	1856.7	8.2
11	34	AS 6t 7/8"	0.012	0.012	0.002	1.48	1.50	1.48	0.22	0.1	0.0	0.0	-0.0	-1.6	267.1	0.0	1855.9	8.2
10	113	Nystron-1"	0.515	0.520	0.074	1.29	1.30	0.02	0.22	1.7	0.0	0.0	-0.2	-2.0	267.9	0.0	1853.3	8.3
9	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.22	2.0	0.0	0.0	0.0	0.0	268.9	0.0	1852.2	8.3
8	34	AS 6t 7/8"	0.012	0.012	0.002	1.48	1.50	1.48	0.22	0.1	0.0	0.0	-0.0	-1.6	270.8	0.0	1852.2	8.3
7	64	EL 6t 7/8"	0.012	0.012	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-1.0	270.9	0.0	1850.6	8.3



Global Irminger MFM B 2014 Mooring Model Analysis
designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:55, pchua@(PCWIN64)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
6	34	AS 6t 7/8"	0.012	0.012	0.002	1.48	1.50	1.48	0.22	0.1	0.0	0.0	-0.0	-1.6	270.9	0.0	1849.6	8.3
5	183	3/4" MR	0.148	0.150	0.022	1.58	1.60	0.99	0.22	0.6	0.0	0.0	-0.1	-33.0	271.2	0.0	1834.8	8.5
4	33	AS 5t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-1.1	271.6	0.0	1814.9	8.5
3	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	271.6	0.0	1813.8	8.5
2	34	AS 6t 7/8"	0.012	0.012	0.002	1.48	1.50	1.48	0.22	0.1	0.0	0.0	-0.0	-1.6	271.7	0.0	1813.1	8.5
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.22	3.8	0.0	0.0	0.0	-2742.1	271.7	0.0	1811.5	0.0



Global Irminger MFM B 2014 Mooring Model Analysis

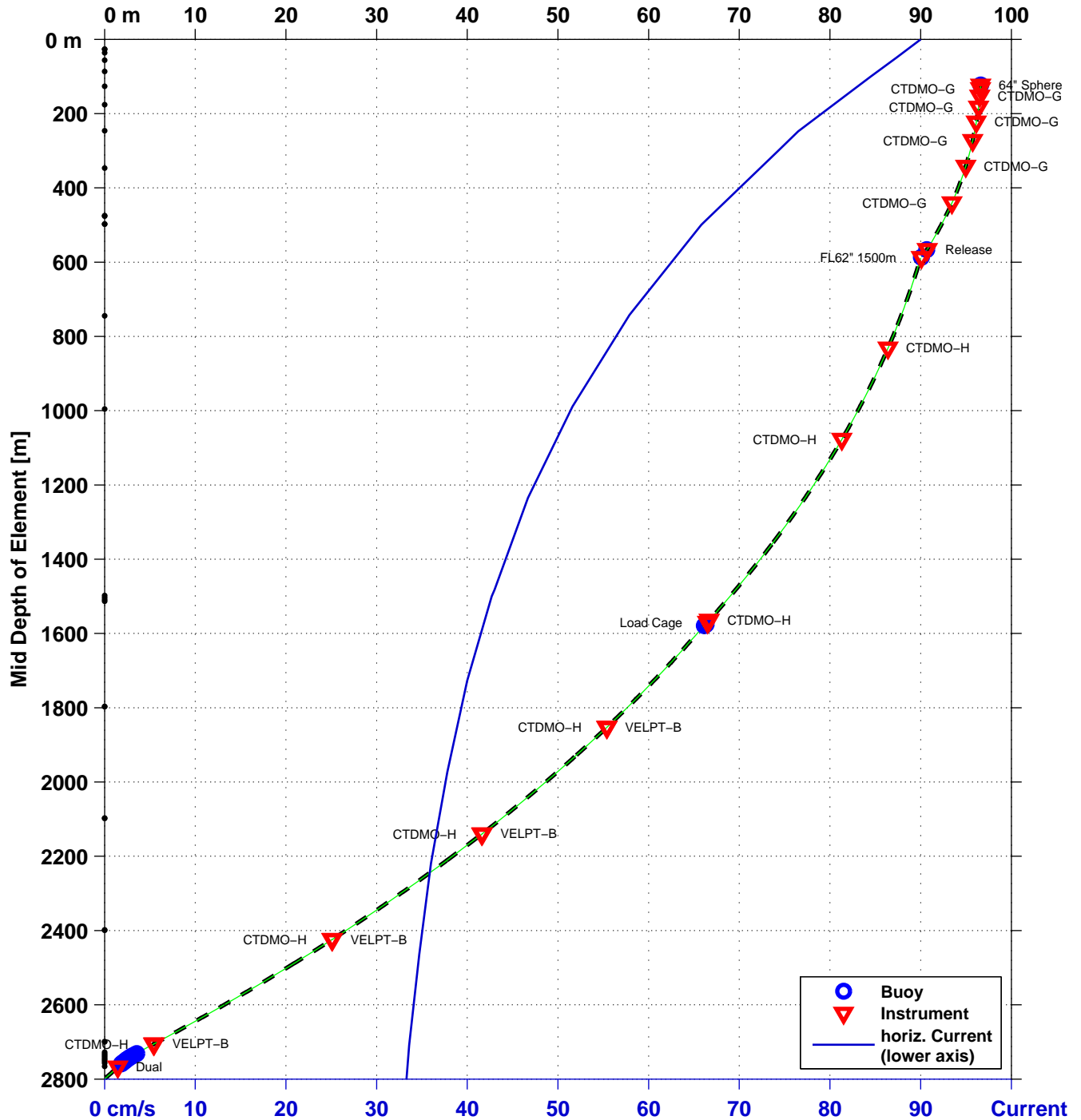
designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg
 Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

Event #003 – Subduction [m]: max. 97m, Top at 123m
 Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf



Event #003: Vert / Horiz anchor load : 1740 kg / 551 kg
Vert / Horiz anchor safety : 125 % / 120 %,
Safe Wet MACE anchor weight : 2401 kg, (max. 500 kg or Horiz. safety)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



Global Irminger MFM B 2014 Mooring Model Analysis

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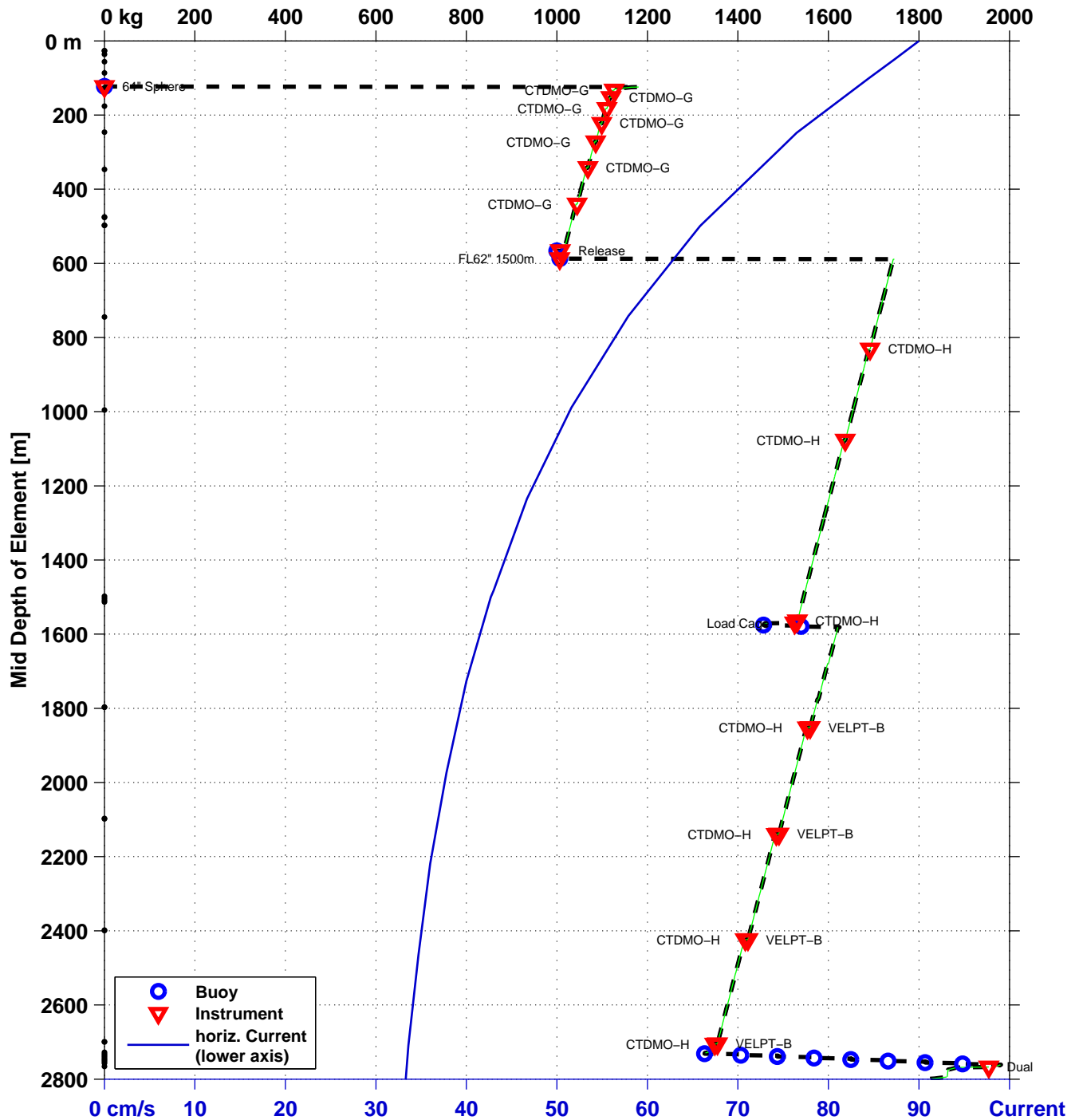


By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OON\IrmingerSea\gi04flmbdeploy.cfg
 Author: 05-Aug-2014 14:31:54, pchua@(PCWIN64)

Event #003 – Tension [kg]

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf



Event #003: Vert / Horiz anchor load : 1740 kg / 551 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight : 2401 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Result

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
155	306	64" Sphere 100	2.3	1180.0	2.087	0.50	0.83	37.9	0.0	0.0	0.00	0.00	122.0	96.6	696.7	1.8
154	17	U-Joint	0.3	-16.3	0.090	1.50	0.83	5.0	1180.6	7.4	0.00	0.00	124.4	96.6	696.7	1.8
153	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.83	46.7	1164.3	11.6	0.00	0.00	125.1	96.6	696.6	4.1
152	13	ind. term	0.1	-2.4	0.005	1.50	0.83	0.3	1129.6	7.1	0.00	0.00	129.6	96.6	696.4	4.5
151	103	5/16" NILSPIN	3.0	-0.6	0.029	1.10	0.83	1.1	1127.2	24.2	0.01	0.25	130.2	96.6	696.4	4.6
150	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.83	2.1	1126.6	11.3	0.00	0.00	132.7	96.6	696.1	4.6
149	103	5/16" NILSPIN	20.0	-4.3	0.191	1.10	0.82	7.3	1123.8	24.2	0.05	0.25	133.2	96.6	696.1	5.1
148	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.82	2.1	1119.5	11.2	0.00	0.00	152.6	96.5	694.4	5.1
147	103	5/16" NILSPIN	30.1	-6.4	0.286	1.10	0.81	10.6	1116.8	24.0	0.07	0.25	153.1	96.5	694.4	5.8
146	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.80	2.0	1110.4	11.1	0.00	0.00	182.6	96.4	691.5	5.8
145	103	5/16" NILSPIN	40.1	-8.5	0.381	1.10	0.79	13.4	1107.6	23.8	0.10	0.24	183.1	96.4	691.5	6.7
144	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.78	1.9	1099.2	11.0	0.00	0.00	222.4	96.1	687.1	6.7
143	103	5/16" NILSPIN	50.1	-10.6	0.476	1.10	0.77	15.7	1096.4	23.6	0.12	0.24	222.9	96.1	687.1	7.7
142	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.75	1.8	1085.9	10.9	0.00	0.00	272.1	95.7	680.7	7.7
141	103	5/16" NILSPIN	70.2	-14.9	0.667	1.10	0.74	20.3	1083.1	23.3	0.17	0.24	272.6	95.7	680.7	9.0
140	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.73	1.6	1068.4	10.7	0.00	0.00	341.5	95.0	670.4	9.1
139	103	5/16" NILSPIN	100.2	-21.3	0.953	1.10	0.70	26.0	1065.6	22.9	0.23	0.23	342.0	95.0	670.4	10.8
138	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.68	1.4	1044.7	10.4	0.00	0.00	440.3	93.5	653.0	10.8
137	103	5/16" NILSPIN	127.3	-27.1	1.210	1.10	0.66	28.3	1042.0	22.4	0.29	0.23	440.8	93.5	653.0	12.8
136	13	ind. term	0.1	-2.4	0.005	1.50	0.64	0.2	1015.6	6.3	0.00	0.00	564.9	90.7	626.9	12.8
135	15	coupler ec	0.2	-6.0	0.020	1.50	0.64	0.7	1013.3	6.3	0.00	0.00	565.0	90.7	626.8	12.9
133	479	Release Float	1.0	0.0	0.592	1.20	0.64	14.9	1007.5	10.1	0.00	0.00	565.6	90.7	626.8	13.0
131	15	coupler ec	0.2	-6.0	0.020	1.50	0.64	0.7	1007.9	6.3	0.00	0.00	566.2	90.7	626.6	13.8
130	13	ind. term	0.1	-2.4	0.005	1.50	0.64	0.2	1002.1	6.3	0.00	0.00	566.3	90.7	626.5	14.0
129	256	CF14-1000	0.0	13.0	0.225	0.50	0.64	2.4	999.8	16.7	0.00	0.00	566.4	90.7	626.5	14.0
127	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.63	2.0	1012.5	21.8	0.02	0.22	566.9	90.7	626.5	14.1
126	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.63	2.0	1010.5	21.7	0.02	0.22	576.6	90.4	624.1	14.2
125	13	ind. term	0.1	-2.4	0.005	1.50	0.63	0.2	1008.4	6.3	0.00	0.00	585.9	90.1	621.6	14.3
124	326	FL62" 1500m ADC	2.8	750.0	1.887	0.50	0.63	19.6	1006.1	10.1	0.00	0.00	587.3	90.1	621.6	14.3



Global Irminger MFM B 2014 Mooring Model Analysis
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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
123	13	ind. term	0.1	-2.4	0.005	1.50	0.63	0.2	1745.6	10.9	0.00	0.00	588.7	90.0	620.9	8.8
122	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.59	44.9	1743.3	37.5	0.93	0.38	589.2	90.0	620.9	10.7
121	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.56	0.9	1692.0	16.9	0.00	0.00	831.1	86.4	579.1	10.7
120	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.53	35.7	1689.2	36.3	0.92	0.37	831.6	86.4	579.1	12.3
119	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.50	0.8	1637.2	16.4	0.00	0.00	1076.9	81.3	528.9	12.3
118	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.47	28.6	1634.5	35.1	0.89	0.36	1077.4	81.3	528.9	13.9
117	103	5/16" NILSPIN	250.9	-53.3	2.383	1.10	0.44	23.7	1582.8	34.0	0.86	0.35	1321.8	74.7	471.9	15.2
116	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.42	0.5	1531.4	15.3	0.00	0.00	1564.1	66.7	408.8	15.3
115	103	5/16" NILSPIN	5.0	-1.1	0.048	1.10	0.42	0.4	1528.7	32.9	0.02	0.34	1564.6	66.7	408.8	15.3
114	13	ind. term	0.1	-2.4	0.005	1.50	0.42	0.1	1527.7	9.5	0.00	0.00	1568.9	66.5	407.5	15.3
113	300	Load Cage	1.5	-60.0	0.300	1.30	0.42	3.6	1525.4	15.3	0.00	0.00	1569.7	66.5	407.5	15.4
112	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1467.8	12.2	0.00	0.00	1570.5	66.4	407.1	16.1
111	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.42	0.1	1467.2	12.2	0.00	0.00	1570.6	66.4	407.1	16.1
110	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1466.5	12.2	0.00	0.00	1570.6	66.4	407.0	16.1
109	181	1/2" MR	2.5	-7.6	0.050	1.60	0.42	0.7	1465.9	14.7	0.00	0.00	1571.1	66.4	407.0	16.2
108	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1458.6	12.2	0.00	0.00	1573.1	66.3	406.3	16.3
107	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.42	0.1	1457.9	12.1	0.00	0.00	1573.2	66.3	406.3	16.3
106	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1457.2	12.1	0.00	0.00	1573.3	66.3	406.3	16.3
105	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.42	5.4	1456.6	14.6	0.00	0.00	1575.3	66.3	406.2	16.3
104	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1541.5	12.8	0.00	0.00	1577.2	66.2	405.1	15.6
103	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.42	0.1	1540.8	12.8	0.00	0.00	1577.3	66.2	405.1	15.6
102	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1540.1	12.8	0.00	0.00	1577.4	66.2	405.1	15.6
101	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.42	5.4	1539.5	15.4	0.00	0.00	1579.4	66.2	405.0	15.6
100	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1624.6	13.5	0.00	0.00	1581.3	66.0	404.0	15.0
99	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.42	0.1	1624.0	13.5	0.00	0.00	1581.4	66.0	404.0	15.0
98	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1623.3	13.5	0.00	0.00	1581.4	66.0	403.9	15.0
96	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1622.6	13.5	0.00	0.00	1581.5	66.0	403.9	15.0
95	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.42	0.1	1622.0	13.5	0.00	0.00	1581.6	66.0	403.9	15.0
94	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.42	0.1	1621.3	13.5	0.00	0.00	1581.7	66.0	403.9	15.0



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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
93	103	5/16" NILSPIN	100.4	-21.3	0.953	1.10	0.41	8.3	1620.7	34.8	0.36	0.36	1582.2	66.0	403.8	15.5
92	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.41	0.1	1600.2	13.3	0.00	0.00	1678.5	62.4	377.4	15.5
91	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.41	0.1	1599.6	13.3	0.00	0.00	1678.6	62.4	377.4	15.6
90	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.41	0.1	1598.9	13.3	0.00	0.00	1678.7	62.4	377.3	15.6
89	103	5/16" NILSPIN	100.4	-21.3	0.953	1.10	0.40	7.8	1598.2	34.3	0.35	0.35	1679.2	62.4	377.3	16.1
88	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.40	0.1	1577.8	13.1	0.00	0.00	1775.3	58.6	349.9	16.1
87	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.40	0.1	1577.2	13.1	0.00	0.00	1775.4	58.6	349.9	16.1
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.40	0.1	1576.5	13.1	0.00	0.00	1775.5	58.6	349.9	16.1
85	103	5/16" NILSPIN	79.3	-16.8	0.753	1.10	0.39	5.9	1575.9	33.9	0.27	0.35	1776.0	58.6	349.9	16.5
84	347	VELPT-B	0.0	-6.0	0.063	1.20	0.39	0.6	1559.8	15.6	0.00	0.00	1851.6	55.4	327.6	16.5
83	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.39	0.1	1554.0	33.4	0.00	0.34	1852.1	55.4	327.6	16.6
82	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.39	0.4	1553.8	15.5	0.00	0.00	1852.6	55.4	327.3	16.6
81	103	5/16" NILSPIN	300.0	-63.7	2.849	1.10	0.38	20.2	1551.2	33.3	1.01	0.34	1853.1	55.4	327.3	18.2
80	347	VELPT-B	0.0	-6.0	0.063	1.20	0.37	0.5	1490.7	14.9	0.00	0.00	2138.9	41.7	237.6	18.2
79	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.37	0.1	1485.0	31.9	0.00	0.33	2139.4	41.7	237.6	18.2
78	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.37	0.4	1484.8	14.8	0.00	0.00	2139.8	41.6	237.3	18.3
77	103	5/16" NILSPIN	300.0	-63.7	2.849	1.10	0.36	17.6	1482.1	31.9	0.96	0.32	2140.3	41.6	237.3	19.9
76	347	VELPT-B	0.0	-6.0	0.063	1.20	0.35	0.4	1422.3	14.2	0.00	0.00	2423.3	25.1	139.3	19.9
75	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.35	0.1	1416.6	30.4	0.00	0.31	2423.8	25.1	139.3	20.0
74	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.35	0.3	1416.4	14.2	0.00	0.00	2424.2	25.1	139.0	20.0
73	103	5/16" NILSPIN	299.9	-63.7	2.849	1.10	0.34	15.7	1413.8	30.4	0.92	0.31	2424.7	25.1	139.0	21.6
72	347	VELPT-B	0.0	-6.0	0.063	1.20	0.34	0.4	1354.7	13.5	0.00	0.00	2704.6	5.5	32.4	21.6
71	103	5/16" NILSPIN	1.0	-0.2	0.010	1.10	0.34	0.0	1349.1	29.0	0.00	0.30	2705.1	5.5	32.4	21.8
70	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.34	0.3	1348.9	13.5	0.00	0.00	2705.5	5.4	32.0	21.8
69	103	5/16" NILSPIN	20.1	-4.3	0.191	1.10	0.34	1.0	1346.3	28.9	0.06	0.30	2706.0	5.4	32.0	21.9
68	491	Parachute	0.0	0.0	1.500	0.50	0.34	4.5	1342.4	13.4	0.00	0.00	2724.1	4.0	24.5	21.9
67	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1344.1	11.2	0.00	0.00	2724.1	4.0	24.5	22.1
66	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.34	0.1	1343.5	11.2	0.00	0.00	2724.2	4.0	24.5	22.1
65	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1342.8	11.2	0.00	0.00	2724.3	4.0	24.4	22.1



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSealgi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
64	181	1/2" MR	5.0	-15.2	0.100	1.60	0.34	0.8	1342.2	13.4	0.00	0.00	2724.8	3.9	24.4	22.4
63	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1328.2	11.1	0.00	0.00	2729.0	3.6	22.5	22.4
62	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.34	0.1	1327.6	11.1	0.00	0.00	2729.1	3.6	22.5	22.4
61	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1326.9	11.1	0.00	0.00	2729.2	3.6	22.5	22.5
60	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.34	3.3	1326.3	13.3	0.00	0.00	2731.2	3.6	22.4	22.5
59	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1408.2	11.7	0.00	0.00	2732.9	3.3	20.9	21.2
58	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.34	0.1	1407.6	11.7	0.00	0.00	2733.0	3.2	20.9	21.3
57	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1407.0	11.7	0.00	0.00	2733.1	3.2	20.8	21.3
56	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.34	3.3	1406.4	14.1	0.00	0.00	2735.1	3.2	20.8	21.3
55	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1488.9	12.4	0.00	0.00	2736.9	3.0	19.4	20.2
54	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.34	0.1	1488.3	12.4	0.00	0.00	2736.9	3.0	19.3	20.2
53	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.34	0.1	1487.6	12.4	0.00	0.00	2737.0	3.0	19.3	20.2
52	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.34	3.4	1487.0	14.9	0.00	0.00	2739.1	2.9	19.3	20.2
51	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1570.1	13.1	0.00	0.00	2740.8	2.7	17.9	19.2
50	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1569.5	13.1	0.00	0.00	2740.9	2.7	17.9	19.3
49	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1568.8	13.1	0.00	0.00	2741.0	2.7	17.8	19.3
48	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.4	1568.2	15.7	0.00	0.00	2743.0	2.7	17.8	19.3
47	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1651.7	13.8	0.00	0.00	2744.9	2.5	16.5	18.4
46	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1651.1	13.8	0.00	0.00	2744.9	2.5	16.5	18.4
45	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1650.4	13.8	0.00	0.00	2745.0	2.5	16.4	18.4
44	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.4	1649.7	16.5	0.00	0.00	2747.0	2.5	16.4	18.4
43	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1733.6	14.4	0.00	0.00	2748.9	2.2	15.2	17.6
42	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1733.0	14.4	0.00	0.00	2749.0	2.2	15.1	17.6
41	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1732.3	14.4	0.00	0.00	2749.0	2.2	15.1	17.6
40	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.4	1731.7	17.3	0.00	0.00	2751.1	2.2	15.1	17.6
39	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1815.9	15.1	0.00	0.00	2752.9	2.0	13.9	16.9
38	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1815.3	15.1	0.00	0.00	2753.0	2.0	13.8	16.9
37	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1814.6	15.1	0.00	0.00	2753.1	2.0	13.8	16.9
36	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.5	1813.9	18.1	0.00	0.00	2755.1	2.0	13.8	16.9



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSealgi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
35	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1898.4	15.8	0.00	0.00	2757.0	1.9	12.6	16.3
34	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1897.8	15.8	0.00	0.00	2757.1	1.9	12.6	16.3
33	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1897.1	15.8	0.00	0.00	2757.2	1.9	12.6	16.3
32	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.5	1896.5	19.0	0.00	0.00	2759.2	1.9	12.6	16.3
31	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1981.2	16.5	0.00	0.00	2761.1	1.7	11.4	15.7
30	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1980.6	16.5	0.00	0.00	2761.1	1.7	11.4	15.7
29	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1979.9	16.5	0.00	0.00	2761.2	1.7	11.4	15.7
28	181	1/2" MR	5.0	-15.2	0.100	1.60	0.33	0.9	1979.3	19.8	0.00	0.00	2761.8	1.7	11.4	15.8
27	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1964.6	16.4	0.00	0.00	2766.1	1.5	10.0	15.9
26	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1964.0	16.4	0.00	0.00	2766.2	1.5	10.0	15.9
25	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1963.3	10.9	0.00	0.00	2766.3	1.5	10.0	15.9
24	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.33	0.2	1962.3	19.6	0.00	0.00	2766.4	1.5	9.9	15.9
23	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1957.2	10.9	0.00	0.00	2766.6	1.5	9.9	15.9
22	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1956.1	16.3	0.00	0.00	2766.7	1.5	9.9	15.9
21	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1955.4	10.9	0.00	0.00	2766.8	1.5	9.8	16.0
20	478	Dual Release	1.0	-61.0	0.288	1.20	0.33	2.0	1954.4	19.5	0.00	0.00	2767.3	1.5	9.8	16.0
19	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.33	0.2	1895.9	11.8	0.00	0.00	2768.1	1.4	9.5	16.5
18	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.33	0.2	1889.4	4.3	0.00	0.00	2768.5	1.4	9.3	16.6
17	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1884.8	7.9	0.00	0.00	2768.6	1.4	9.3	16.6
16	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.33	0.1	1883.3	7.8	0.00	0.00	2768.7	1.4	9.3	16.7
15	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1882.3	15.7	0.00	0.00	2768.8	1.4	9.2	16.7
14	181	1/2" MR	5.0	-15.2	0.100	1.60	0.33	0.9	1881.7	18.8	0.00	0.00	2769.4	1.4	9.2	16.8
13	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1867.1	15.6	0.00	0.00	2773.7	1.2	7.8	16.8
12	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1866.5	15.6	0.00	0.00	2773.8	1.2	7.7	16.9
11	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1865.8	7.8	0.00	0.00	2773.9	1.2	7.7	16.9
10	113	Nystron-1"	20.7	-2.0	0.520	1.30	0.33	3.6	1864.3	11.1	0.67	3.33	2774.4	1.2	7.7	17.0
9	491	Parachute	0.0	0.0	1.500	0.50	0.33	4.4	1862.5	18.6	0.00	0.00	2793.7	0.3	1.7	17.0
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1863.8	7.8	0.00	0.00	2793.7	0.3	1.7	17.1
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.33	0.1	1862.3	7.8	0.00	0.00	2793.8	0.2	1.6	17.2



Global Irminger MFM B 2014 Mooring Model Analysis
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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	Tension [%]	Stretch [m]	Stretch [%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1861.3	7.8	0.00	0.00	2793.9	0.2	1.6	17.2
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.33	1.3	1859.9	7.7	0.00	0.00	2794.5	0.2	1.6	17.5
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1828.3	10.2	0.00	0.00	2798.8	0.0	0.1	17.5
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1827.3	15.2	0.00	0.00	2798.9	0.0	0.1	17.6
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1826.6	7.6	0.00	0.00	2799.0	0.0	0.0	17.6
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.33	8.5	1825.2	30.4	0.00	0.00	2800.0	0.0	0.0	0.0

Max. 37.5% Static Tension at:																
122	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.59	44.9	1743.3	37.5	0.93	0.38	589.2	90.0	620.9	10.7

Vert/Horiz Anchor Load : 1740 kg / 551 kg
 Wet MACE Anchor Weight : 2742 kg
 Safe MACE Anchor Weight : 2401 kg



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Parameter

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
155	306	64" Sphere	2.087	2.087	2.087	0.50	0.50	0.50	0.83	37.9	0.0	0.0	0.0	1180.0	0.0	0.0	0.0	1.8
154	17	U-Joint	0.090	0.090	0.003	1.50	1.50	1.50	0.83	5.0	0.0	0.0	-0.2	-16.3	37.9	0.0	1180.0	1.8
153	141	1/2" EM chai	0.998	1.000	0.054	1.30	1.30	1.00	0.83	46.7	0.0	0.0	-2.5	-35.0	61.6	0.0	1148.7	4.1
152	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.83	0.3	0.0	0.0	-0.0	-2.4	89.6	0.0	1126.0	4.5
151	103	5/16" NILSPI	0.028	0.029	0.002	1.09	1.10	0.00	0.83	1.1	0.0	0.0	-0.1	-0.6	90.3	0.0	1123.4	4.6
150	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.83	2.1	0.0	0.0	-0.2	-2.8	91.0	0.0	1122.9	4.6
149	103	5/16" NILSPI	0.190	0.191	0.016	1.09	1.10	0.00	0.82	7.3	0.0	0.0	-0.6	-4.3	96.6	0.0	1117.6	5.1
148	374	CTDMO-G P100	0.042	0.042	0.004	1.39	1.40	1.00	0.82	2.1	0.0	0.0	-0.2	-2.8	100.4	0.0	1115.0	5.1
147	103	5/16" NILSPI	0.285	0.286	0.028	1.09	1.10	0.00	0.81	10.6	0.0	0.0	-1.0	-6.4	107.7	0.0	1108.5	5.8
146	374	CTDMO-G P100	0.042	0.042	0.004	1.39	1.40	0.99	0.80	2.0	0.0	0.0	-0.2	-2.8	113.1	0.0	1104.6	5.8
145	103	5/16" NILSPI	0.379	0.381	0.042	1.09	1.10	0.00	0.79	13.4	0.0	0.0	-1.5	-8.5	121.7	0.0	1096.8	6.7
144	374	CTDMO-G P100	0.042	0.042	0.005	1.39	1.40	0.99	0.78	1.9	0.0	0.0	-0.2	-2.8	128.5	0.0	1091.6	6.7
143	103	5/16" NILSPI	0.473	0.476	0.060	1.08	1.10	0.00	0.77	15.7	0.0	0.0	-2.0	-10.7	138.2	0.0	1082.4	7.7
142	374	CTDMO-G P100	0.042	0.042	0.006	1.39	1.40	0.99	0.75	1.8	0.0	0.0	-0.2	-2.8	146.1	0.0	1076.0	7.7
141	103	5/16" NILSPI	0.660	0.667	0.098	1.07	1.10	0.00	0.74	20.3	0.0	0.0	-3.0	-14.9	158.0	0.0	1064.2	9.0
140	374	CTDMO-G P100	0.042	0.042	0.007	1.38	1.40	0.99	0.73	1.6	0.0	0.0	-0.2	-2.8	168.1	0.0	1055.1	9.1
139	103	5/16" NILSPI	0.939	0.953	0.165	1.06	1.10	0.00	0.70	26.0	0.0	0.0	-4.5	-21.3	182.9	0.0	1039.3	10.8
138	374	CTDMO-G P100	0.041	0.042	0.008	1.38	1.40	0.98	0.68	1.4	0.0	0.0	-0.3	-2.8	195.7	0.0	1026.2	10.8
137	103	5/16" NILSPI	1.184	1.210	0.249	1.05	1.10	0.00	0.66	28.3	0.0	0.0	-5.8	-27.1	211.5	0.0	1006.9	12.8
136	13	ind. term	0.005	0.005	0.001	1.46	1.50	1.46	0.64	0.2	0.0	0.0	-0.0	-2.4	225.4	0.0	990.3	12.8
135	15	coupler ec	0.019	0.020	0.004	1.46	1.50	1.46	0.64	0.7	0.0	0.0	-0.1	-6.0	225.5	0.0	987.9	12.9
133	479	Release Floa	0.577	0.592	0.133	1.17	1.20	0.88	0.64	14.9	0.0	0.0	-3.1	0.0	226.2	0.0	981.8	13.0
131	15	coupler ec	0.019	0.020	0.005	1.46	1.50	1.46	0.64	0.7	0.0	0.0	-0.1	-6.0	241.1	0.0	978.7	13.8
130	13	ind. term	0.005	0.005	0.001	1.46	1.50	1.46	0.64	0.2	0.0	0.0	-0.0	-2.4	241.8	0.0	972.5	14.0
129	256	CF14-1000	0.218	0.225	0.054	0.49	0.50	0.39	0.64	2.4	0.0	0.0	-0.5	13.0	242.0	0.0	970.1	14.0
127	103	5/16" NILSPI	0.092	0.095	0.023	1.03	1.10	0.00	0.63	2.0	0.0	0.0	-0.5	-2.1	245.3	0.0	981.4	14.1
126	103	5/16" NILSPI	0.092	0.095	0.023	1.03	1.10	0.00	0.63	2.0	0.0	0.0	-0.5	-2.1	247.3	0.0	978.8	14.2
125	13	ind. term	0.005	0.005	0.001	1.45	1.50	1.45	0.63	0.2	0.0	0.0	-0.0	-2.4	248.4	0.0	977.3	14.3
124	326	FL62" 1500m	1.887	1.887	1.887	0.50	0.50	0.50	0.63	19.6	0.0	0.0	0.0	750.0	248.5	0.0	974.9	14.3



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg
Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
123	13	ind. term	0.005	0.005	0.001	1.48	1.50	1.48	0.63	0.2	0.0	0.0	-0.0	-2.4	268.2	0.0	1724.9	8.8
122	103	5/16" NILSPI	2.301	2.335	0.397	1.07	1.10	0.00	0.59	44.9	0.0	0.0	-7.6	-52.2	291.7	0.0	1692.7	10.7
121	375	CTDMO-H P350	0.041	0.042	0.008	1.38	1.40	0.98	0.56	0.9	0.0	0.0	-0.2	-2.8	313.3	0.0	1662.7	10.7
120	103	5/16" NILSPI	2.334	2.382	0.477	1.05	1.10	0.00	0.53	35.7	0.0	0.0	-7.1	-53.3	332.7	0.0	1629.6	12.3
119	375	CTDMO-H P350	0.041	0.042	0.009	1.37	1.40	0.98	0.50	0.8	0.0	0.0	-0.2	-2.8	349.9	0.0	1599.4	12.3
118	103	5/16" NILSPI	2.320	2.382	0.541	1.04	1.10	0.00	0.47	28.6	0.0	0.0	-6.5	-53.3	365.4	0.0	1566.6	13.9
117	103	5/16" NILSPI	2.306	2.383	0.599	1.02	1.10	0.00	0.44	23.7	0.0	0.0	-5.9	-53.3	391.4	0.0	1507.2	15.2
116	375	CTDMO-H P350	0.041	0.042	0.011	1.35	1.40	0.96	0.42	0.5	0.0	0.0	-0.1	-2.8	402.9	0.0	1477.5	15.3
115	103	5/16" NILSPI	0.046	0.048	0.013	1.02	1.10	0.00	0.42	0.4	0.0	0.0	-0.1	-1.1	403.6	0.0	1474.1	15.3
114	13	ind. term	0.005	0.005	0.001	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-2.4	403.8	0.0	1473.4	15.3
113	300	Load Cage	0.289	0.300	0.079	1.25	1.30	0.87	0.42	3.6	0.0	0.0	-0.8	-60.0	403.9	0.0	1471.0	15.4
112	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	407.5	0.0	1410.1	16.1
111	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	407.6	0.0	1409.4	16.1
110	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	407.7	0.0	1408.7	16.1
109	181	1/2" MR	0.048	0.050	0.014	1.54	1.60	0.96	0.42	0.7	0.0	0.0	-0.2	-7.6	408.0	0.0	1405.4	16.2
108	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	408.5	0.0	1400.2	16.3
107	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	408.6	0.0	1399.5	16.3
106	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	408.7	0.0	1398.7	16.3
105	274	HR17-4 seria	0.960	1.000	0.281	0.58	0.60	1.02	0.42	5.4	0.0	0.0	-1.3	88.0	408.8	0.0	1398.1	16.3
104	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	414.2	0.0	1484.8	15.6
103	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	414.3	0.0	1484.1	15.6
102	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.42	0.1	0.0	0.0	-0.0	-0.7	414.4	0.0	1483.3	15.6
101	274	HR17-4 seria	0.963	1.000	0.269	0.58	0.60	1.02	0.42	5.4	0.0	0.0	-1.2	88.0	414.5	0.0	1482.6	15.6
100	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-0.7	419.9	0.0	1569.4	15.0
99	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-0.7	420.0	0.0	1568.7	15.0
98	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-0.7	420.1	0.0	1568.0	15.0
96	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-0.7	420.2	0.0	1567.3	15.0
95	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-0.7	420.3	0.0	1566.6	15.0
94	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.42	0.1	0.0	0.0	-0.0	-0.7	420.5	0.0	1565.8	15.0



Global Irminger MFM B 2014 Mooring Model Analysis
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By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
93	103	5/16" NILSPI	0.919	0.953	0.251	1.02	1.10	0.00	0.41	8.3	0.0	0.0	-2.2	-21.3	424.7	0.0	1553.5	15.5
92	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.41	0.1	0.0	0.0	-0.0	-0.7	428.9	0.0	1541.6	15.5
91	53	PL 3t 3/4"	0.009	0.010	0.003	1.45	1.50	1.45	0.41	0.1	0.0	0.0	-0.0	-0.7	429.0	0.0	1541.0	15.6
90	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.41	0.1	0.0	0.0	-0.0	-0.7	429.1	0.0	1540.2	15.6
89	103	5/16" NILSPI	0.917	0.953	0.260	1.01	1.10	0.00	0.40	7.8	0.0	0.0	-2.1	-21.3	433.1	0.0	1527.9	16.1
88	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.40	0.1	0.0	0.0	-0.0	-0.7	437.0	0.0	1516.1	16.1
87	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.40	0.1	0.0	0.0	-0.0	-0.7	437.1	0.0	1515.4	16.1
86	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.40	0.1	0.0	0.0	-0.0	-0.7	437.2	0.0	1514.6	16.1
85	103	5/16" NILSPI	0.723	0.753	0.211	1.00	1.10	0.00	0.39	5.9	0.0	0.0	-1.7	-16.8	440.2	0.0	1504.8	16.5
84	347	VELPT-B	0.060	0.063	0.018	1.15	1.20	0.86	0.39	0.6	0.0	0.0	-0.2	-6.0	443.2	0.0	1495.5	16.5
83	103	5/16" NILSPI	0.009	0.010	0.003	1.00	1.10	0.00	0.39	0.1	0.0	0.0	-0.0	-0.2	443.8	0.0	1489.3	16.6
82	375	CTDMO-H P350	0.040	0.042	0.012	1.34	1.40	0.96	0.39	0.4	0.0	0.0	-0.1	-2.8	443.8	0.0	1489.1	16.6
81	103	5/16" NILSPI	2.719	2.849	0.852	0.99	1.10	0.00	0.38	20.2	0.0	0.0	-6.0	-63.7	454.6	0.0	1451.4	18.2
80	347	VELPT-B	0.060	0.063	0.020	1.14	1.20	0.86	0.37	0.5	0.0	0.0	-0.1	-6.0	464.5	0.0	1416.4	18.2
79	103	5/16" NILSPI	0.009	0.010	0.003	0.98	1.10	0.00	0.37	0.1	0.0	0.0	-0.0	-0.2	465.0	0.0	1410.3	18.2
78	375	CTDMO-H P350	0.040	0.042	0.013	1.33	1.40	0.95	0.37	0.4	0.0	0.0	-0.1	-2.8	465.1	0.0	1410.1	18.3
77	103	5/16" NILSPI	2.693	2.849	0.931	0.97	1.10	0.00	0.36	17.6	0.0	0.0	-5.8	-63.7	474.4	0.0	1372.5	19.9
76	347	VELPT-B	0.059	0.063	0.021	1.13	1.20	0.85	0.35	0.4	0.0	0.0	-0.1	-6.0	483.1	0.0	1337.7	19.9
75	103	5/16" NILSPI	0.009	0.010	0.003	0.96	1.10	0.00	0.35	0.1	0.0	0.0	-0.0	-0.2	483.5	0.0	1331.6	20.0
74	375	CTDMO-H P350	0.040	0.042	0.014	1.32	1.40	0.94	0.35	0.3	0.0	0.0	-0.1	-2.8	483.6	0.0	1331.3	20.0
73	103	5/16" NILSPI	2.663	2.849	1.013	0.95	1.10	0.00	0.34	15.7	0.0	0.0	-5.6	-63.7	491.9	0.0	1293.9	21.6
72	347	VELPT-B	0.059	0.063	0.023	1.12	1.20	0.84	0.34	0.4	0.0	0.0	-0.1	-6.0	499.6	0.0	1259.2	21.6
71	103	5/16" NILSPI	0.009	0.010	0.004	0.93	1.10	0.00	0.34	0.0	0.0	0.0	-0.0	-0.2	500.0	0.0	1253.0	21.8
70	375	CTDMO-H P350	0.039	0.042	0.016	1.30	1.40	0.93	0.34	0.3	0.0	0.0	-0.1	-2.8	500.1	0.0	1252.8	21.8
69	103	5/16" NILSPI	0.177	0.191	0.071	0.93	1.10	0.00	0.34	1.0	0.0	0.0	-0.4	-4.3	500.9	0.0	1247.7	21.9
68	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.34	4.5	0.0	0.0	0.0	0.0	501.4	0.0	1245.2	21.9
67	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.34	0.1	0.0	0.0	-0.0	-0.7	505.9	0.0	1245.2	22.1
66	53	PL 3t 3/4"	0.009	0.010	0.004	1.39	1.50	1.39	0.34	0.1	0.0	0.0	-0.0	-0.7	505.9	0.0	1244.6	22.1
65	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.34	0.1	0.0	0.0	-0.0	-0.7	506.0	0.0	1243.8	22.1



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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
64	181	1/2" MR	0.093	0.100	0.038	1.48	1.60	0.93	0.34	0.8	0.0	0.0	-0.3	-15.2	506.4	0.0	1236.9	22.4
63	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.34	0.1	0.0	0.0	-0.0	-0.7	506.9	0.0	1227.6	22.4
62	53	PL 3t 3/4"	0.009	0.010	0.004	1.39	1.50	1.39	0.34	0.1	0.0	0.0	-0.0	-0.7	506.9	0.0	1226.9	22.4
61	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.34	0.1	0.0	0.0	-0.0	-0.7	507.0	0.0	1226.2	22.5
60	274	HR17-4 seria	0.924	1.000	0.382	0.55	0.60	0.98	0.34	3.3	0.0	0.0	-1.0	88.0	507.1	0.0	1225.5	22.5
59	32	AS 3t 5/8"	0.006	0.006	0.002	1.40	1.50	1.40	0.34	0.1	0.0	0.0	-0.0	-0.7	510.4	0.0	1312.5	21.2
58	53	PL 3t 3/4"	0.009	0.010	0.003	1.40	1.50	1.40	0.34	0.1	0.0	0.0	-0.0	-0.7	510.4	0.0	1311.8	21.3
57	32	AS 3t 5/8"	0.006	0.006	0.002	1.40	1.50	1.40	0.34	0.1	0.0	0.0	-0.0	-0.7	510.5	0.0	1311.1	21.3
56	274	HR17-4 seria	0.932	1.000	0.363	0.56	0.60	0.99	0.34	3.3	0.0	0.0	-1.0	88.0	510.6	0.0	1310.4	21.3
55	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.34	0.1	0.0	0.0	-0.0	-0.7	513.9	0.0	1397.4	20.2
54	53	PL 3t 3/4"	0.009	0.010	0.003	1.41	1.50	1.41	0.34	0.1	0.0	0.0	-0.0	-0.7	514.0	0.0	1396.7	20.2
53	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.34	0.1	0.0	0.0	-0.0	-0.7	514.1	0.0	1396.0	20.2
52	274	HR17-4 seria	0.938	1.000	0.346	0.56	0.60	0.99	0.34	3.4	0.0	0.0	-0.9	88.0	514.1	0.0	1395.3	20.2
51	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-0.7	517.5	0.0	1482.4	19.2
50	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-0.7	517.6	0.0	1481.7	19.3
49	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-0.7	517.6	0.0	1480.9	19.3
48	274	HR17-4 seria	0.944	1.000	0.330	0.57	0.60	1.00	0.33	3.4	0.0	0.0	-0.9	88.0	517.7	0.0	1480.2	19.3
47	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-0.7	521.1	0.0	1567.3	18.4
46	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-0.7	521.2	0.0	1566.6	18.4
45	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-0.7	521.2	0.0	1565.9	18.4
44	274	HR17-4 seria	0.949	1.000	0.316	0.57	0.60	1.01	0.33	3.4	0.0	0.0	-0.9	88.0	521.3	0.0	1565.2	18.4
43	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-0.7	524.7	0.0	1652.3	17.6
42	53	PL 3t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-0.7	524.8	0.0	1651.6	17.6
41	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-0.7	524.9	0.0	1650.9	17.6
40	274	HR17-4 seria	0.953	1.000	0.303	0.57	0.60	1.01	0.33	3.4	0.0	0.0	-0.9	88.0	524.9	0.0	1650.2	17.6
39	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	528.4	0.0	1737.3	16.9
38	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	528.4	0.0	1736.7	16.9
37	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-0.7	528.5	0.0	1735.9	16.9
36	274	HR17-4 seria	0.957	1.000	0.291	0.57	0.60	1.01	0.33	3.5	0.0	0.0	-0.8	88.0	528.6	0.0	1735.2	16.9



Global Irminger MFM B 2014 Mooring Model Analysis designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
35	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	532.0	0.0	1822.4	16.3
34	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	532.1	0.0	1821.7	16.3
33	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	532.2	0.0	1820.9	16.3
32	274	HR17-4 seria	0.960	1.000	0.281	0.58	0.60	1.02	0.33	3.5	0.0	0.0	-0.8	88.0	532.2	0.0	1820.3	16.3
31	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	535.7	0.0	1907.4	15.7
30	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	535.7	0.0	1906.8	15.7
29	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	535.8	0.0	1906.0	15.7
28	181	1/2" MR	0.096	0.100	0.027	1.54	1.60	0.96	0.33	0.9	0.0	0.0	-0.2	-15.2	536.2	0.0	1899.2	15.8
27	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	536.8	0.0	1889.9	15.9
26	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	536.8	0.0	1889.2	15.9
25	33	AS 5t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-1.1	536.9	0.0	1888.5	15.9
24	94	Swivel 5t	0.024	0.025	0.007	1.15	1.20	1.15	0.33	0.2	0.0	0.0	-0.0	-5.3	537.0	0.0	1887.4	15.9
23	33	AS 5t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-1.1	537.2	0.0	1882.0	15.9
22	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	537.3	0.0	1880.9	15.9
21	33	AS 5t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-1.1	537.4	0.0	1880.1	16.0
20	478	Dual Release	0.277	0.288	0.079	1.15	1.20	0.87	0.33	2.0	0.0	0.0	-0.5	-61.0	537.5	0.0	1879.1	16.0
19	480	1/2" dropcha	0.023	0.024	0.007	1.53	1.60	0.96	0.33	0.2	0.0	0.0	-0.1	-6.8	539.5	0.0	1817.6	16.5
18	76	ML 17t 1-1/4	0.024	0.026	0.007	1.44	1.50	1.44	0.33	0.2	0.0	0.0	-0.1	-4.8	539.7	0.0	1810.7	16.6
17	34	AS 6t 7/8"	0.012	0.012	0.004	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-1.6	539.9	0.0	1805.8	16.6
16	64	EL 6t 7/8"	0.011	0.012	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-1.0	540.0	0.0	1804.2	16.7
15	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	540.1	0.0	1803.2	16.7
14	181	1/2" MR	0.096	0.100	0.029	1.53	1.60	0.96	0.33	0.9	0.0	0.0	-0.2	-15.2	540.5	0.0	1796.3	16.8
13	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	541.1	0.0	1787.0	16.8
12	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-0.7	541.1	0.0	1786.4	16.9
11	34	AS 6t 7/8"	0.012	0.012	0.004	1.44	1.50	1.44	0.33	0.1	0.0	0.0	-0.0	-1.6	541.2	0.0	1785.6	16.9
10	113	Nystron-1"	0.497	0.520	0.152	1.24	1.30	0.02	0.33	3.6	0.0	0.0	-1.1	-2.0	543.0	0.0	1782.6	17.0
9	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.33	4.4	0.0	0.0	0.0	0.0	545.0	0.0	1781.0	17.0
8	34	AS 6t 7/8"	0.012	0.012	0.004	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-1.6	549.4	0.0	1781.0	17.1
7	64	EL 6t 7/8"	0.011	0.012	0.004	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-1.0	549.5	0.0	1779.4	17.2



Global Irminger MFM B 2014 Mooring Model Analysis
designed for 2800m Depth



By: P. Chua	05-Aug-2014	DCN: 3202-00012	REV: B	REF.DES. GI04FLMB
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Source: 05-Aug-2014 14:26:44, ...\Paul's m-files\OOI\IrmingerSea\gi04flmbdeploy.cfg

Author: 05-Aug-2014 14:31:56, pchua@(PCWIN64)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3202-00007_CGSN_Site_Characterization_Irminger_Sea.pdf

#	ID	Element	Ax [	Ay m ²	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
6	34	AS 6t 7/8"	0.012	0.012	0.004	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-1.6	549.6	0.0	1778.4	17.2
5	183	3/4" MR	0.143	0.150	0.045	1.53	1.60	0.95	0.33	1.3	0.0	0.0	-0.4	-33.0	550.2	0.0	1763.4	17.5
4	33	AS 5t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-1.1	551.0	0.0	1743.3	17.5
3	53	PL 3t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-0.7	551.1	0.0	1742.3	17.6
2	34	AS 6t 7/8"	0.012	0.012	0.004	1.43	1.50	1.43	0.33	0.1	0.0	0.0	-0.0	-1.6	551.2	0.0	1741.5	17.6
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.33	8.5	0.0	0.0	0.0	-2742.1	551.3	0.0	1739.9	0.0